# ORANGE TOOLS®

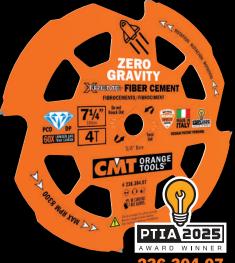
### **CATALOG 2026 USA/CAN EDITION**



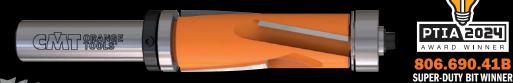




FRAMING BLADE WINNER



FIBER CEMENT BLADE WINNER





256.050.10 COMBINATION BLADE WINNER



230.312.08 **DADO PRO BLADE WINNER** 



PRECISION DADO BLADE WINNER

### **BUILT TO WIN. DRIVEN BY INNOVATION.**

7 Pro Tool Innovation Awards in 3 years.

#### **BLADE CHART ABBREVIATIONS**

В = Bore Diameter D = Diameter K = Kerf Thickness = Plate Thickness

PH = Pin Hole **PITCH T** = (D\*3.14)/Z**RPM** = Round per Minute = N° of Teeth Τ ٧ = N° of Rakers

= Hook Angle α β = Type of Grind:

**ATB** = Alternate Top Bevel Grind CO / CONICAL = Conical Teeth FFT = Flat Flat Trapezoidal **FLAT / FTG** = Flat Top Grind **FWF** = Flat with Alternate Chamfer **HDF** = Hollow Ground Teeth

**Hi-ATB** = High Alternate Top Bevel Grind **HR** = Hollow Back Tooth Configuration

MATB = Alternate Top Bevel with Chamfer Grind

**MFLAT** = Flat Top Grind with Chamfer

MTCG = Triple Chip Grind (Trapezoidal) with Chamfer

TCG = Triple Chip Grind (Trapezoidal)

#### **CHART ABBREVIATIONS**

= Axial Angle α Α = Angle

В = Bore Diameter  $\mathbf{D} / \mathbf{D}_2 / \mathbf{d} = \text{Diameter}$ Н = Cutting Depth I / I1 = Cutting Length K = Thickness L = Overall Length = Relative Lenght LB R/R<sub>1</sub> = Radius

**RPM** 

= Round per Minute S = Shank Diameter = N° of Teeth T T<sub>1</sub> = Workable Thickness **TPI** = Teeth per Inch TS = Tooth Spacing = N° of Spurs ٧ W = Width

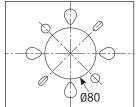


= Dispatch Package Qty.



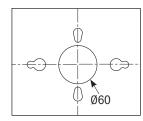
#### COMBI3

2/7/42mm 2/9/46.4mm 2/10/60mm



#### COMBI5

2/7/110mm 2/8.4/130mm 2/14/110mm 4/9/100mm 4/19/120mm

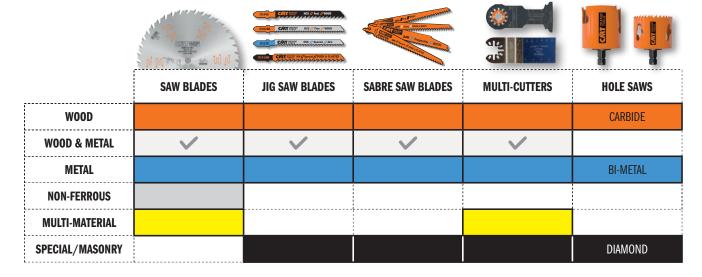


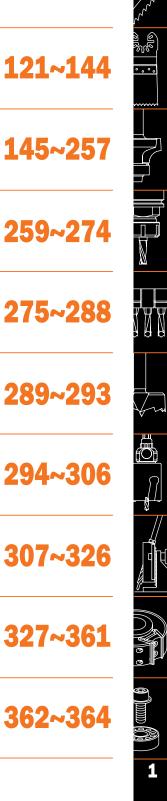
#### COMBI7

2/10/80mm 1/11/85mm 2/11/115mm 2/11/148 mm2/14/100mm 2/14/125mm 2/19/120mm

#### THE RIGHT TOOLS FOR THE BEST RESULTS!

Quick reference charts and pictograms help you choose the right tools for your application.









CUTTER HEADS & KNIVES



### **MADE IN ITALY SINCE 1962 60 YEARS AND STILL** GOING STRONG!

By now, the story has been told. After over 60 years of success and quality in manufacturing woodworking tools - orange woodworking tools, to be precise - word just sort of gets around. We have grown and we have changed, but one thing still remains the same: our commitment to making only the highest quality woodworking tools.



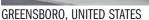
**OUR BRAN** 





UDINE, ITALY







VALENCIA, SPAIN

OUR TOOLS So, what does it take to make a CMT tool? Like all things of quality, it's not only what you do but how you do it. And anyone who works wood knows that you get out of a piece only what you put into it, and it is no different when manufacturing a tool. You choose your designs and materials carefully and you work using all of your skill and know-how. You'll be happy to know that's what we do at CMT too.

#### **OUR TRADEMARK COLOR ORANGE**

As the story goes, we began small. We also put orange color surface coating on our tools, then we put our tools on the market and soon our orange tools were all over the world. Now, any woodworker anywhere in the world can tell you that orange tools means CMT, and that CMT means quality. Here at CMT we know we produce quality. You should too. That's why we have trademarked the color orange on woodworking tools - it's your guarantee that you are getting a genuine high-quality CMT product.

#### **DESIGN**

Everything starts with a clear idea and having the potential to express it. We have both. At CMT, our technical department uses the best of both worlds - computer technology and hands-on experience - to engineer and design each tool so that it performs flawlessly each time you use it, and to guarantee that you'll be using it for a long, long time.

#### **MATERIALS**

Turning a design into a finished product means finding the right material that will do the job and that lives up to the specifications set out in the design - quality performance from the final product depends on it. When it comes to selecting raw materials, we don't cut corners.

At CMT, we know that high quality tools come only from high quality raw materials, so we use only solid bar stock steel and specially formulated micrograin carbide to manufacture our bits and blades.



Loading the automated multi-axis CNC sharpening machines.



#### **MANUFACTURING**

Like we said, it's not just what you do but how you do it. Over the years we have continuously invested in the latest technology in CNC machining equipment and innovative software to manufacture our tools. The result is that now our entire manufacturing process, from turning and milling the steel shanks to brazing and sharpening the carbide cutting tips, is completely automated. And since a machine is only as intelligent at the person using it, everything is operated by specifically trained operators.

#### THE FINAL TOUCH

A tool simply wouldn't be a CMT tool if it didn't have the trademark orange color nonstick P.T.F.E. coating on it. This unique industrial strength surface coating is designed to withstand the physical stresses the tool undergoes during use while protecting it from residue build-up and burning. And we really like the orange color too.

#### **QUALITY CONTROL**

Nobody's perfect, but we're trying. CMT uses rigorous quality control programs and the latest generation machining equipment to ensure that each bit has been manufactured with precision and accuracy and that it will give the long-lasting performance you expect from a **CMT ORANGE TOOL**. Our tools are manufactured in compliance with European Standard EN 847 published and enforced by the CEN (European Committee for Standardisation).





#### **WE RECYCLE**

CMT filters and purifies its water using a reverse osmosis system located inside the plant. Also the oil used in grinding and machining our tools must be clean and absolutely free of contaminants. Clean oil, after enough use, gets dirty, so we filter and reprocess dirty oil on the premises. This is our way of guaranteeing the quality of the oil we use, as well as contributing to help protect the environment.

#### **LOGISTICS & SERVICES**

CMT offers a wide product range with over 7000 different standard tools, but that still isn't enough to achieve 100% customer satisfaction. It's a top priority to process orders and ship the same day. That's why CMT factories worldwide are equipped with 20+ automated vertical storage systems programmed to expedite and simplify order and delivery.

The tools you need, in-stock and ready for prompt shipment within 24 hours. What does this translate to for customers? Quick and efficient service exceeding customer satisfaction and branding our success.





#### OUR CHANNELS











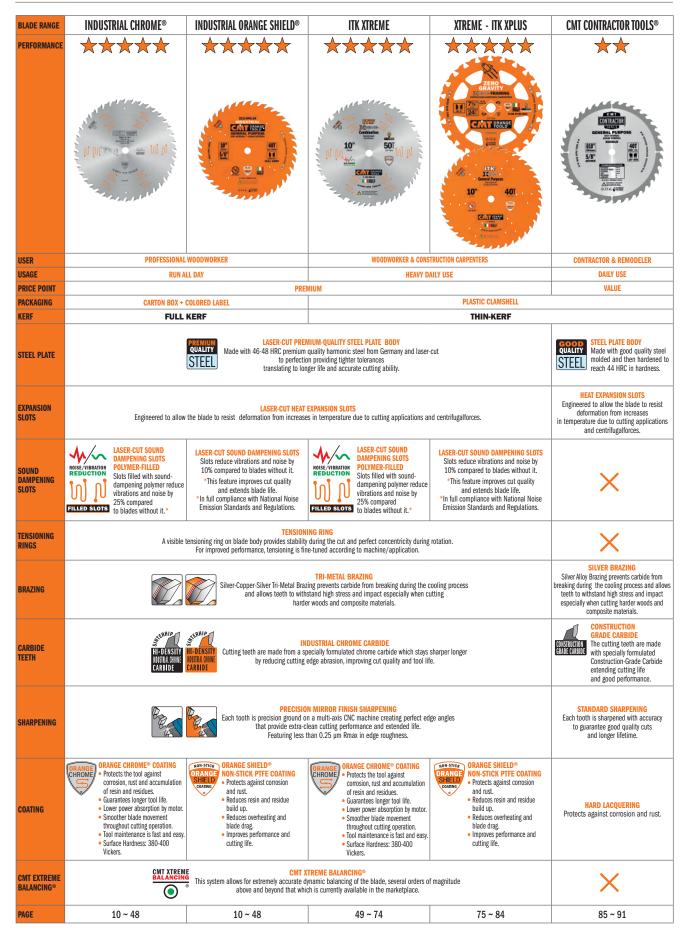
www.instagram.com/cmt\_orangetools





			IOOLS
DIA	METER	WOOD & NON-FERROUS	METAL & STEEL
[mm]	[inches]	Max Rpm	Max Rpm
50	2	30000	7500
70	-	21800	7500
80	-	19000	7500
85	0.070	18000	7500
86	3-3/8	18000	7500
100	4	15300	7500
100,4		15300	7500
115	4-1/2	13500	6000
120	-	12700	6000
125	-	11800	6000
130	-	11800	6000
136	5-3/8	11300	6000
140	5-1/2	11000	6000
150	6	10000	6000
152	j °	10000	6000
160	-	9500	6000
165	6-1/2	9500	6000
168	-	9500	6000
170	6-3/4	9000	6000
178	7	8500	6000
180	1 '	8500	6000
184	7-1/4	8300	6000
190	-	8000	6000
200	8	9500	4500
203	8	9500	4500
210	8-1/4	9000	4500
215	8-1/2	9000	4500
216	0-1/2	9000	4500
220	-	8500	3500
225	9	8500	3500
230	]	8500	3500
235	-	8100	3500
240	-	8000	3000
250	-	7600	3000
254	10	7600	3000
260	10-1/4	7300	3000
270	-	7100	3000
275	-	6800	3000
280	-	6800	3000
300	]	6400	2000
303	12	6400	2000
305		6400	2000
315	-	6100	2000
320	-	6000	2000
330	-	5800	2000
350	14	5500	2000
355		5500	2000
380	-	5000	1500
400	16	4800	1500
406		4800	1500
420	-	4600	1500
430	-	4400	1500
450	-	4200	1500
500	-	3800	1000
520	-	3600	1000







# PRODUCTION FACILITY IN UDINE, ITALIA

The Udine production facility, a state-of-the-art site dedicated to crafting high-quality circular blades, proudly upholds the tradition of **100% MADE IN ITALY** excellence.

Here, technical expertise and managerial know-how come together to develop and patent cutting-edge solutions celebrated for their precision engineering and outstanding cutting performance.

This unwavering commitment to innovation and quality has established the Udine facility as a benchmark in the industry.



### **QUALITY ACCORDING TO CMT**

Quality can take on different meanings, at times it may relate to the appearance of a product, other times to the number of features or the materials used to make it and so on. Circular saw blades are technical items, tools dedicated to the realization of intermediate workings that if carried out impeccably, enable the manufacturing of the highest-quality finished products with the best production efficiency. Based on this principal, CMT manufactures saw blades using the functional quality concept, this being that every detail of the saw blade, from its design to the choice of materials to its manufacturing cycle, is finalized to give the best performance in the true-life use of the tool. As such, the features of our saw blades are always functional and are found on the product only if and when they bring a true benefit to reaching the established performance target. Should any of the saw blade features fail to do so they will be purposely omitted; the same applies to the tools' manufacturing work cycle which in turn makes it possible for CMT to focus its resources and on what really represents value for the user. The quality embedded in our products is the result of a school of thought which is shared and embraced by the people who make them, and this culture is relentlessly cultivated and improved. Quality at CMT also means respect for people and the Earth.

#### STEEL PLATE

The body of a blade is an integral part of blade design; cutting quality and longevity depend on it. We use only the highest quality steel available, so durable and tough that it will not only withstand heavy workloads, but also be flexible enough to bend without breaking.

#### **LASER CUT**

All our blanks are laser cut; this allows us to use harder harmonic steels for the blade bodies, which in return generates extremely rigid and stable saw blades, guaranteeing perfect flatness. In addition, we are able to engineer quieter tools using a very narrow laser beam to cut expansion and vibration dampening slots.

#### **EXPANSION SLOTS**

Unique expansion slots permit the blade to stand up to heat build-up and centrifugal force thereby preventing plate deformation and warping for a cleaner finished cut.

# NEW LASER-CUT SLOTS FILLED WITH SOUND-DAMPENING POLYMER

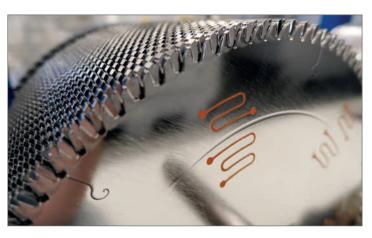
Slots filled with a sound-dampening polymer reducing vibration and noise by 25% with respect to standard saw blades.

Improved cutting quality and extended blade life.

Slots positioned near toothed crown provide impressive vibration isolation and shock absorption.

Fully compliant with National Noise FILLED SLOTS Emission Standard & Regulation.





# CMT ORANGE TOOLS

#### **CMT XTREME BALANCING® \***

\* INTERNATIONAL PATENT PENDING

This system allows for extremely accurate dynamic balancing of the blade, several orders of magnitude above and beyond that which is currently available in the marketplace. Each blade undergoes rigorous assessment and only in the event that micro imbalance is detected will the appropriate correction holes be applied. You may find 1 to 5 micro balancing holes on your blade, depending on the degree of micro imbalance (fig.1). When in perfect balance, a single incision will appear on the blade as proof of balance (fig.2).

These holes will have no effect on the technical properties of the blade during use (such as an increase in noise\*\*, chip build-up at the correction site, etc.). This translates to precise cutting, longer blade life, reduced vibration and noise, and less wear and tear on your machine components.

\*\*Results are based on tests conducted by an independent laboratory. These results are available for download on our website.







Fig. 2 Example of inspected blade already in perfect balance.

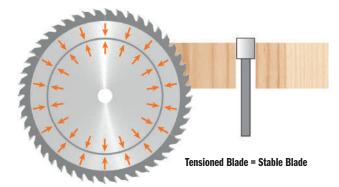


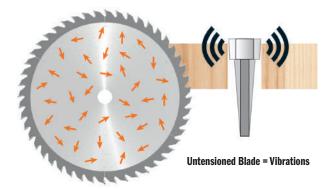




#### TENSIONING RINGS & FLATTING

To ensure maximum performance, flatting and plate tensioning processes are performed. Every single blade is subject to a flatting process in order to achieve the highest flatness tolerance. The blade body then undergoes tensioning in order to enhance stiffness and stability. A well-marked and visible ring is applied to the blade body by means of compression and with a predetermined force linked to the intended application and working conditions of each blade.



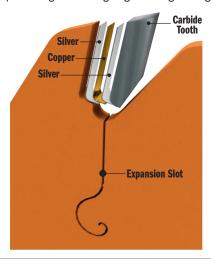


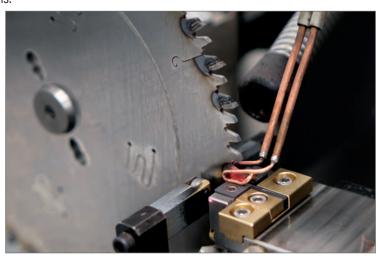
#### **CARBIDE TEETH**

Tips require optimum quality carbide. Different applications call for different grades. Our Research and Development Team has evaluated and tested carbide grades and tracked their yield on performance both in house and in the field. We have access to the widest range in the world and only use top premium quality carbides.

#### TRI-METAL BRAZING

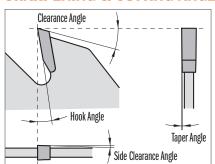
Brazing is the process of attaching a hard metal plate to the steel body of the blade. This is performed by using a bonding metal, which once melted, acts as a binder between the two parts. The bonding material used for brazing is a trimetallic alloy formed by silver, copper and silver, which not only serves to effectively attach the two parts together but whose fundamental properties create a shock-absorber effect protecting the cutting edges during routing operations.





#### CMT ORANGE TOOLS

#### **SHARPENING & CUTTING ANGLES**



Sharpening is imperative to the production process of the blade and equally important with respect to the project in mind and material in use. Fully automated and numerically controlled grinding machines tooled with extra-fine-grained diamond wheels allow any type of angle and shape of the tooth. The right choice of these parameters will guarantee cutting edge lifetime and ultimately the best finish on the finished part.



#### **COATING**

Quality coatings can be extremely effective in certain applications. CMT uses the following:



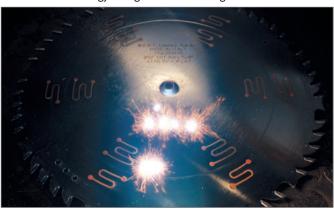
ORANGE SHIELD® COATING: a registered and trademarked non-stick protective coating bearing our characteristic orange color. A technopolymer (P.T.F.E. is spray-applied to the blade body then baked to enhance its protective properties. Chemical compounds cannot attach this coating, it remains insoluble in water and solvents, is completely non-stick and diffuses and disperses heat.



ORANGE CHROME®: this is a coating composed of a thin layer of chromium, which is electrolytically deposited on the blade in order to increase wear resistance when in contact with highly abrasive material. Surface hardness increases considerably, guaranteeing long-life and incredible resilience to corrosion and rust.

#### **LASER MARKING & SCREEN PRINTING**

All CMT blades are identifiable by means of a latest generation indelible laser marking or multicolored screen-printing, a sophisticated automated technology that guarantees striking and versatile results.





#### FINAL TESTING AND QUALITY CONTROL

Following design and manufacturing phases, each new model is tested to ensure maximum performance during the work phase.

The entire production process is subject to meticulous quality controls using conventional and sophisticated measuring system.



#### **NEW PACKAGING**

- Blade packaging is made from strong and sturdy cardboard, reusable and environmentally friendly.
- Package information updated in 12 languages.
- New colored labels offer useful technical information such as application, materials and machine compatibility.







#### **HOW TO CHOOSE A BLADE IN THE NEW CMT CATALOG**











#### WHAT'S THE MATERIAL YOU WANT TO CUT?

#### WOOD

**WOOD & METAL** 

**METAL & STEEL** 

**NON-FERROUS** 

**MULTI-MATERIALS** 

#### WHAT'S THE APPLICATION/MACHINE IN USE?

- RIPPING
- FRAMING
- **GENERAL PURPOSE**
- **COMBINATION**
- FINISH
- etc ....

**BASED ON YOUR MACHINE, CHOOSE** THE APPROPRIATE **BLADE:** 

- DIAMETER (D)
  - BORE (B)

#### **SUGGESTIONS FOR CHOOSING THE RIGHT BLADE:**

#### HOOK ANGLE $\alpha$

- Wood, Solid Surface ( $\alpha = 10^{\circ} \sim 25^{\circ}$ )
- Chipboard, MDF, Plywood, Laminate, Plastic ( $\alpha = 5^{\circ} \sim 15^{\circ}$ )
- Chipboard, MDF, Non-Ferrous, Metals ( $\alpha = 0^{\circ} \sim 10^{\circ}$ )



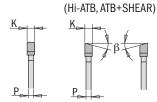
 Metals, Non-Ferrous, Plastic, Laminate  $(\alpha = -5^{\circ} \sim -15^{\circ})$ 



#### **TEETH SHAPE**

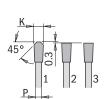
 Wood, Chipboard, MDF. Plywood

**FLAT** 

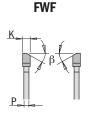


 Laminate, Chipboard, MDF. Plywood. Plastic **FFT** 





Metals



Special Application/Materials

**HDF** FLAT+ATB CO+FLAT MATB **MFLAT MTCG** HR

#### **SUGGESTIONS FOR BLADE USE:**

**ATB** 

In order to achieve the best cut possible, that is without modifying the predetermined angle of entry/exit, it is important that the portion of the blade (H) which extends beyond the workpiece during the cut, be close to equal to the height of an entire tooth (approx. 8/10mm).

To improve the finish, it is possible to make small adjustments by increasing or decreasing this height.

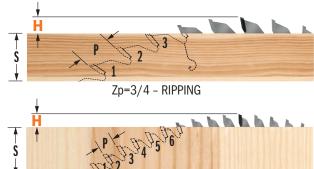
The number of teeth simultaneously engaged in cutting the material (Teeth Cutting or Zp) must be constant as the thickness (S) of the material varies. As with Zp < 3, the cutting quality is not guaranteed. With the same diameter, and when cutting thicker material, ensure to use a blade with less teeth (or with a greater Pitch P) or vice versa  $(S=[P \times Zp]/1.414).$ 

Thin blades are suitable for thinner materials. They also require less power during operation, and are ideal for battery-operated machines.

Thick blades, which are more robust, are suitable for precision cutting in thicker materials but obviously require more power.

We typically recommend using the blade at around 80% of MAX RPM (as indicated on each blade).

However, this should be considered a starting point, as many variables are involved, in fact the best way to go forward is step-by-step.



Zp=5/6 -CROSSCUT, CHIPBOARD, MDF. PLYWOOD, LAMINATE, PLASTIC

The blade Pitch (P), or the distance between each tooth. is calculated in the following way:

D x 3.14

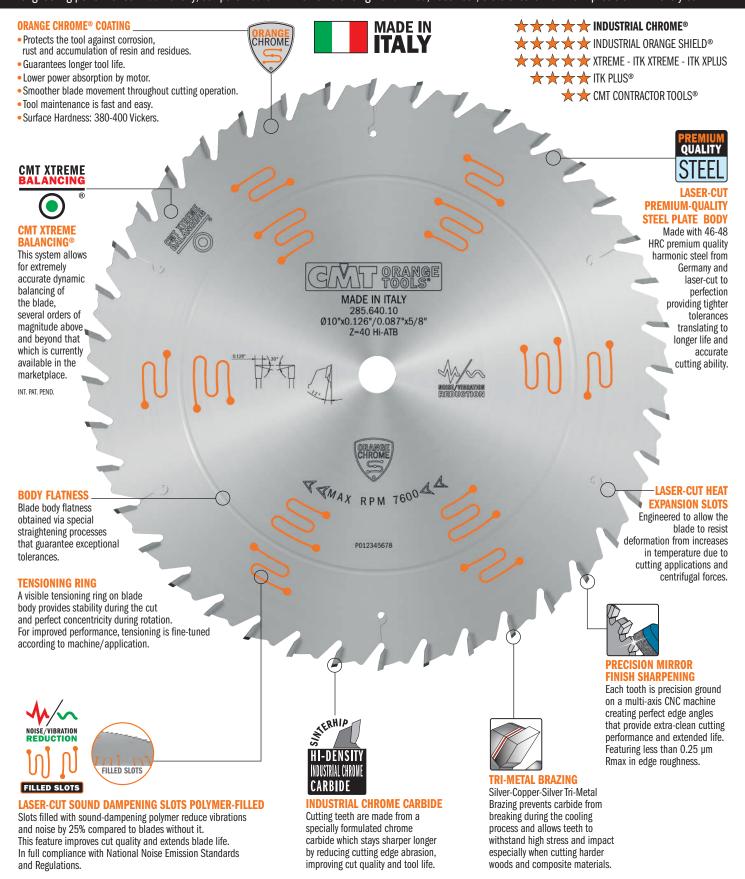
D=Blade Diameter (mm) T=N° of Teeth

### INDUSTRIAL CHROME®



Our Full-Kerf blades are designed for professional woodworkers who require high precision and durability from their saw blades.

Special chrome carbide reduces tooth abrasion, whereas the chrome plated body protects against corrosion and pitch build-up, guaranteeing long-lasting performance. Additionally, our patented CMT XTreme Balancing® and Filled, Laser-Cut, Slots ensure maximum precision with every cut.

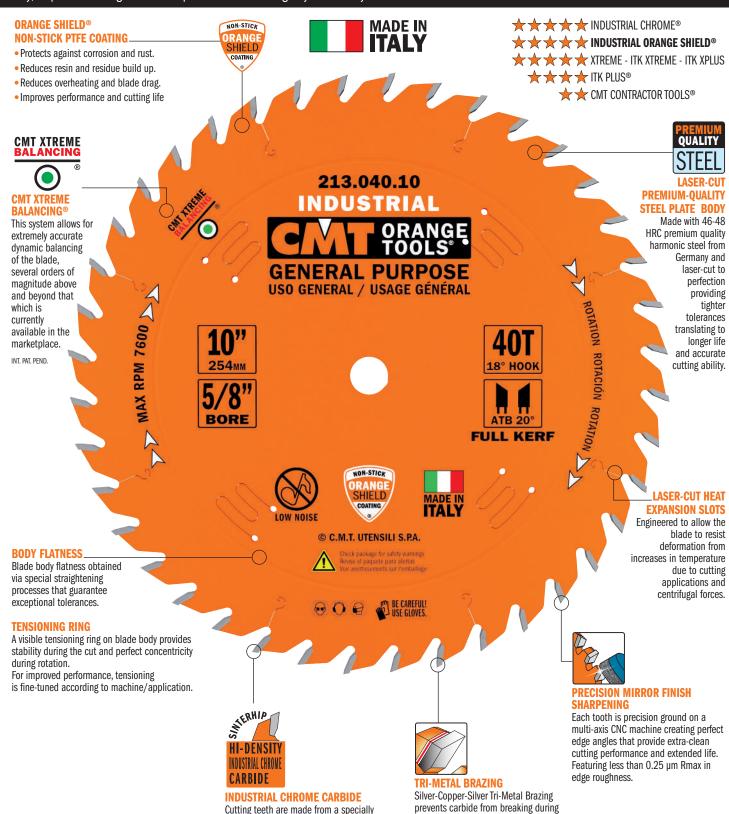


### INDUSTRIAL ORANGE SHIELD®

CMT's Full-Kerf blade line is designed for professional woodworkers and finish carpenters.

The CMT Orange Shield® Coating is chemically engineered, and kiln-dried within our facility in Udine, Italy, to provide the highest level of performance and longevity for industry craftsman.





formulated chromium micrograin carbide

which stays sharper longer by reducing

improving cut quality and tool life.

cutting edge abrasion,

the cooling process and allows teeth

to withstand high stress and impact

especially when cutting harder woods

and composite materials.



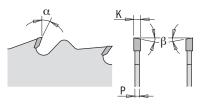


















#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**











For specific details regarding suggested materials, please check blade label.

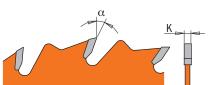
ORDER NO.	8	inches	mm	T	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
285.624.10	1	10	254	24	5/8	-	FLAT	0.126	0.087	15°
FOR MACHINES WIT	H METRIC	ARBOR								
285.624.10M	1	-	250	24	30mm	COMBI3	FLAT	0.126	0.087	10°
293.024.12M	1	-	300	24	30mm	COMBI3	ATB 10°	0.126	0.087	20°
293.028.14M	1	-	350	28	30mm	COMBI3	ATB 10°	0.137	0.098	20°





### 201 ORANGE SHIELD®







#### **MACHINES**









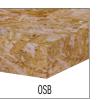
Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**







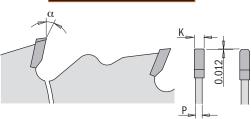


ORDER NO.	8	inches	mm	Т	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
201.024.10	1	10	254	24	5/8	-	MFLAT	0.126	0.087	20°
201.030.12	1	12	305	30	1	-	MFLAT	0.126	0.087	20°





# 203 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**







Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**





#### **MATERIALS**









ORDER NO.	8	inches	mm	Т	<b>B</b> inches	KEY WAY	β	<b>K</b> inches	P inches	α
203.630.10	1	10	254	30	5/8	-	TCG	0.126	0.087	12°
203.636.12	1	12	305	36	1	-	TCG	0.126	0.087	12°
203.036.12W2* ■	1	12	305	36	3-1/8	13.1 x 7.1 - 6.9 x 3.7mm	TCG	0.160	0.110	20°

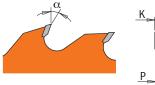
\*NOT ORANGE CHROME®

■ Until stock last





# 279 ORANGE SHIELD® INDUSTRIAL





#### **TECHNICAL DETAILS:**

The rakers prevent contact between the steel plate body and the material in use.



#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**







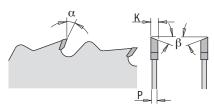


ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	K inches	P inches	α
279.010.10	1	10	254	10+4	2-3/8	FLAT	0.157	0.098	25°
279.012.12	1	12	305	12+4	2-3/8	FLAT	0.157	0.098	25°





# 285 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### APPLICATIONS

















For specific details regarding suggested materials, please check blade label.

ORDER NO.	8	inches	mm	T	<b>B</b> inches	PIN HOLE ⊕⊕⊕	β	<b>K</b> inches	P inches	α
285.640.10	1	10	254	40	5/8	-	Hi-ATB 30°	0.126	0.087	12°
<b>FOR MACHINES WIT</b>	H METRIC	ARBOR								
285.640.10M	1	-	250	40	30mm	COMBI3	ATB 10°	0.126	0.087	15°
285.648.12M	1	-	300	48	30mm	COMBI3	ATB 10°	0.126	0.087	5°
285.654.14M	1	-	350	54	30mm	COMBI3	ATB 10°	0.137	0.098	5°
285.660.16M	1	-	400	60	30mm	COMBI3	ATB 15°	0.137	0.098	10°





### 213-290-291 ORANGE SHIELD® INDUSTRIAL









**WOOD** 



#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**





#### **MATERIALS**











For specific details regarding suggested materials, please check blade label.

### 213





ORDER NO.	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
213.040.10	1	10	254	40	5/8	ATB 20°	0.126	0.100	18°
213.048.12	1	12	305	48	1	ATB 20°	0.126	0.100	10°

### 290-291 FOR MACHINES WITH METRIC ARBOR

ORDER NO.	8	inches <b>D</b>	mm	T	<b>B</b> mm	PIN HOLE	β	K inches	P inches	α
291.160.24H •	10	-	160	24	20	2/6/32	ATB 15°	0.087	0.064	15°
291.165.24H	10	6-1/2	165	24	20	2/6/32	ATB 15°	0.087	0.064	15°
290.210.24M •	10	8-1/4	210	24	30	2/7/42	ATB 10°	0.110	0.071	20°
291.210.36M •	10	8-1/4	210	36	30	2/7/42	ATB 15°	0.110	0.071	15°

<sup>●</sup> Ideal for **FESTOOL**® & others

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**<sup>■</sup> Ideal for Track Saws** 

### Combination





# 285.6 ORANGE CHROME®

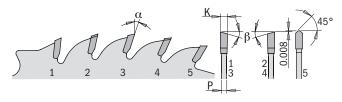












#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**

















ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
285.650.10	1	10	254	50	5/8	4 ATB 20°+1 TCG	0.126	0.087	12°



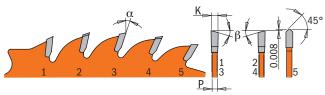


# 215 ORANGE SHIELD® INDUSTRIAL









#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















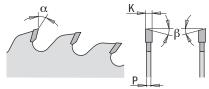


ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	K inches	P inches	α
215.050.10	1	10	254	50	5/8	4 ATB 20°+1	L TCG 0.126	0.087	12°
215.060.12	1	12	305	60	1	4 ATB 20°+1	L TCG 0.126	0.087	12°





# 285 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**













Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**

















For specific details regarding suggested materials, please check blade label.

ORDER NO.	8	inches	mm	T	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
285.660.10	1	10	254	60	5/8	-	ATB 20°	0.126	0.087	10°
285.672.12	1	12	305	72	1	-	ATB 20°	0.126	0.087	10°
285.684.14	1	14	355	84	1	-	ATB 15°	0.137	0.098	10°
285.696.16	1	16	406	96	1	-	ATB 15°	0.137	0.098	10°
285.708.18	1	18	457	108	1	-	ATB 15°	0.150	0.110	10°
FOR MACHINES WIT	H METRIC	ARBOR								
285.760.48H •	1	-	160	48	20mm	2/6/32	ATB 12°	0.087	0.064	5°
285.790.48FF •	1	-	190	48	20mm (FESTOOL® FF)	Key 5/7/2.5	ATB 15°	0.095	0.071	8°
285.816.60M	1	-	216	60	30mm	2/7/42	ATB 15°	0.090	0.064	-5°
285.660.10M	1	-	250	60	30mm	COMBI3	ATB 15°	0.126	0.087	10°
285.672.12M	1	-	300	72	30mm	COMBI3	ATB 15°	0.126	0.087	10°

<sup>•</sup> Ideal for **FESTOOL**® & others

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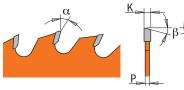




### 205-292-294 ORANGE SHIELD®







**WOOD** 



#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**



#### **MATERIALS**











For specific details regarding suggested materials, please check blade label.

### 205





PERFORMANCE

ORDER NO.	8	inches	mm	T	<b>B</b> inches	β	K inches	P inches	α
205.060.10	1	10	254	60	5/8	ATB 20	° 0.102	0.071	5°
205.072.12	1	12	305	72	1	ATB 15	° 0.126	0.087	10°

### 292-294 FOR MACHINES WITH METRIC ARBOR

ORDER NO.	8	<b>D</b> inches	mm	Т	<b>B</b> mm	PIN HOLE	β	<b>K</b> inches	P inches	α
292.160.40H •	10	-	160	40	20	2/6/32	ATB 15°	0.087	0.064	10°
292.165.40H	10	6-1/2	165	40	20	2/6/32	ATB 15°	0.087	0.064	10°
292.210.48M •	10	8-1/4	210	48	30	2/7/42	ATB 15°	0.110	0.071	15°
294.060.11M •	10	-	260	60	30	COMBI3	ATB 15°	0.098	0.071	-5°

<sup>•</sup> Ideal for FESTOOL® & others

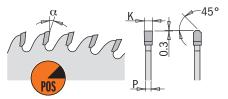
21

**<sup>■</sup> Ideal for Track Saws** 





### **281.6** ORANGE CHROME® INDUSTRIAL











#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**

















For specific details regarding suggested materials, please check blade label.

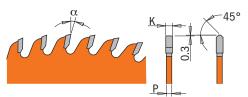
ORDER NO.	8	inches	mm	Т	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
281.660.10	1	10	254	60	5/8	-	TCG	0.126	0.087	10°
FOR MACHINES WIT	H METRIC	ARBOR								
281.760.48H •	1	-	160	48	20mm	2/6/32	TCG	0.087	0.064	4°
281.672.12M	1	-	300	72	30mm	COMBI3	TCG	0.126	0.087	10°
281.684.14M	1	-	350	84	30mm	COMBI3	TCG	0.137	0.098	10°

<sup>•</sup> Ideal for FESTOOL® & others





# 221 ORANGE SHIELD® INDUSTRIAL







#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















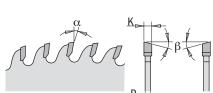


ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
221.060.10	1	10	254	60	5/8	TCG	0.126	0.087	10°
221.072.12	1	12	305	72	1	TCG	0.126	0.087	10°





# 285.6 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















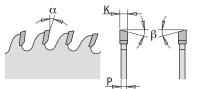
ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
285.680.12	1	12	305	80	1	ATB 15°	0.094	0.071	5°





# 285 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**







Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















For specific details regarding suggested materials, please check blade label.

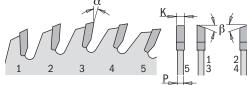
ORDER NO.		inches <b>D</b>	mm	T	<b>B</b> inches	PIN HOLE ⊕⊕⊕	β	<b>K</b> inches	P inches	α
285.680.10	1	10	254	80	5/8		ATB 20°	0.118	0.098	10°
285.696.12	1	12	305	96	1		ATB 20°	0.118	0.098	10°
FOR MACHINES WIT	H METRIC	ARBOR								
285.696.12M	1	-	300	96	30mm	COMBI3	ATB 15°	0.126	0.087	5°
285.708.14M	1	-	350	108	30mm	COMBI3	ATB 15°	0.137	0.098	5°





# 274 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













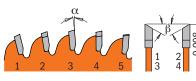


ORDER NO.	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
274.691.12	1	12	305	90	5/8	4 ATB 20°+ 1 FLAT	0.118	0.098	-3°





# 219 ORANGE SHIELD® INDUSTRIAL







#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

### **APPLICATIONS**













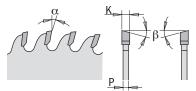


ORDER NO.	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
219.060.08	1	8-1/2	216	60	5/8	4 Hi-ATB 30°+ 1 TCG	0.118	0.100	-5°
219.080.10	1	10	254	80	5/8	4 Hi-ATB 30°+ 1 TCG	0.122	0.100	-5°
219.090.12	1	12	305	90	1	4 Hi-ATB 30°+ 1 TCG	0.122	0.100	-5°





# 283.6 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















For specific details regarding suggested materials, please check blade label.

ORDER NO.	8	inches	mm	T	<b>B</b> inches	PIN HOLE ⊕⊕⊕	β	<b>K</b> inches	P inches	α
283.680.10	1	10	254	80	5/8	-	Hi-ATB 38°	0.126	0.087	2°
283.696.12	1	12	305	96	1	-	Hi-ATB 38°	0.126	0.087	2°
FOR MACHINES WITH	METRIC A	RBOR								
283.064.09M*	1	-	220	64	30mm	2/7/42	Hi-ATB 40°	0.126	0.087	-5°
283.680.10M	1	-	250	80	30mm	COMBI3	Hi-ATB 38°	0.126	0.087	-2°
283.696.12M	1	-	300	96	30mm	COMBI3	Hi-ATB 38°	0.126	0.087	2°
283.108.14M	1	-	350	108	30mm	COMBI3	Hi-ATB 38°	0.137	0.098	5°

<sup>\*</sup> NOT ORANGE CHROME®





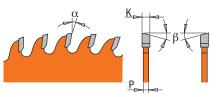
### 210-292-294 ORANGE SHIELD® INDUSTRIAL







**WOOD** 





**MACHINES** Blade diameter compatibility is contingent on machine type.













**APPLICATIONS** 



**MATERIALS** For specific details regarding suggested materials, please check blade label.













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ORDER NO.	多	inches	mm		inches	β	inches	inches	α
210.060.08	1	8-8-1/4	203	60	5/8	Hi-ATB 38°	0.126	0.087	2°
210.080.10	1	10	254	80	5/8	Hi-ATB 38°	0.126	0.087	2°
210.096.12	1	12	305	96	1	Hi-ATB 38°	0.126	0.087	2°

### FOR MACHINES WITH METRIC ARBOR

ORDER NO.	8	inches	mm	T	<b>B</b> mm	PIN HOLE ⊕⊕⊕	β	<b>K</b> inches	P inches	α
292.160.56H •	10	-	160	56	20	2/6/32	ATB 15°	0.087	0.064	15°
292.165.56H <b>=</b>	10	6-1/2	165	56	20	2/6/32	ATB 15°	0.087	0.064	15°
292.210.64M •	10	-	210	64	30	2/7/42	ATB 15°	0.110	0.071	15°
292.216.80M •	10	-	216	80	30	2/7/42	ATB 15°	0.110	0.071	-5°
292.230.64M •	10	-	230	64	30	2/7/42 + 2/6/10	ATB 15°	0.110	0.071	15°
294.080.11M •	5	-	260	80	30	COMBI3	ATB 15°	0.098	0.071	-5°

<sup>•</sup> Ideal for FESTOOL® & others

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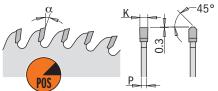
**PERFORMANCE** 

**<sup>■</sup> Ideal for Track Saws** 





# 281.6 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













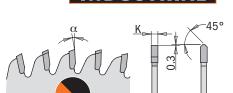


ORDER NO.	8	inches	mm	T	<b>B</b> inches	PIN HOLE ⊕⊕⊕	β	<b>K</b> inches	P inches	α
281.680.10	1	10	254	80	5/8	-	TCG	0.126	0.087	5°
281.696.12	1	12	305	96	1	-	TCG	0.126	0.087	5°
FOR MACHINES WIT	H METRIC	ARBOR								
281.680.10M	1	-	250	80	30mm	COMBI3	TCG	0.126	0.087	5°
281.696.12M	1	-	300	96	30mm	COMBI3	TCG	0.126	0.087	5°
281.708.14M	1	-	350	108	30mm	COMBI3	TCG	0.138	0.098	5°





# 281.6 ORANGE CHROME® INDUSTRIAL











#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**

















For specific details regarding suggested materials, please check blade label.

ORDER NO.	8	inches <b>D</b>	mm	T	<b>B</b> inches	PIN HOLE ⊕⊕	β	<b>K</b> inches	P inches	α
281.681.10	1	10	254	80	5/8	-	TCG	0.126	0.087	-3°
281.697.12	1	12	305	96	1	-	TCG	0.126	0.087	-3°
FOR MACHINES WIT	H METRIC	ARBOR								
281.681.10M	1	-	250	80	30mm	COMBI3	TCG	0.126	0.087	-3°
281.697.12M	1	-	300	96	30mm	COMBI3	TCG	0.126	0.087	-3°





### 289 INDUSTRIAL



**TIPS:** suggested for machines without vertical regulation of scoring blade.



**WOOD** 

#### **MACHINES**



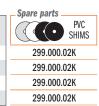
#### **APPLICATIONS**







ORDER NO.		<b>D</b> mm	T	B mm	PIN HOLE ⊕⊕⊕	β	K mm	α
289.100.20H	1	100	10+10	20	2/3.1 - 3.8/42	FLAT	2.8-3.6	12°
289.100.20K	1	100	10+10	22	2/3.1 - 3.8/42	FLAT	2.8-3.6	12°
289.120.24H	1	120	12+12	20	2/3.1 - 3.8/42	FLAT	2.8-3.6	12°
289.120.24K	1	120	12+12	22	2/3.1 - 3.8/42	FLAT	2.8-3.6	12°





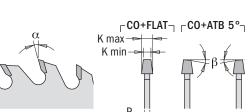


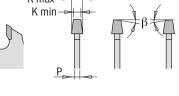
### 288 INDUSTRIAL

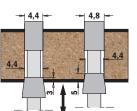












**TIPS:** suggested for machines with vertical regulation of scoring blade.

Suggested for use with thick kerf or panel sizing blade.

#### **MACHINES**





#### **APPLICATIONS**

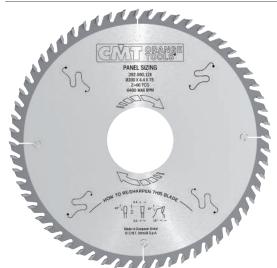




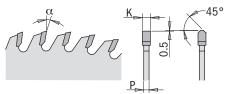


			-	D	PIN HOLE		1/	D .	
ORDER NO.	(A)	<b>D</b> mm	T	<b>B</b> mm	⊕⊕	β	K mm	<b>P</b> mm	α
288.100.20H	1	100	20	20	-	CO + ATB 5°	3.1-4.0	2.5	5°
288.100.20K	1	100	20	22	-	CO + ATB 5°	3.1-4.0	2.5	5°
288.120.24H	1	120	24	20	-	CO + ATB 5°	3.1-4.0	2.5	5°
288.120.24K	1	120	24	22	-	CO + ATB 5°	3.1-4.0	2.5	5°
288.125.24H	1	125	24	20	-	CO + ATB 5°	3.1-4.0	2.5	5°
288.125.24K	1	125	24	22	-	CO + ATB 5°	3.1-4.0	2.5	5°
288.125.24Q	1	125	24	45	-	CO + FLAT	4.3-5.5	3.2	10°
288.150.36Q	1	150	36	45	3/11/70	CO + FLAT	4.3-5.5	3.2	10°
288.160.36Q	1	160	36	45	3/11/70	CO + FLAT	4.3-5.5	3.2	10°
288.160.360	1	160	36	55	3/7/66	CO + FLAT	4.3-5.5	3.2	10°
288.180.36Q	1	180	36	45	-	CO + FLAT	4.7-6.0	3.5	10°
288.180.36Q2	1	180	36	45	-	CO + ATB 5°	4.3-5.5	3.2	8°
288.200.36H	1	200	36	20	-	CO + FLAT	4.4-5.3	3.2	10°
288.200.36Q	1	200	36	45	-	CO + FLAT	4.7-6.0	3.5	10°
288.200.36J	1	200	36	65	2/9/110	CO + FLAT	4.3-5.5	3.2	10°
288.215.42T	1	215	42	50	3/15/80	CO + FLAT	4.3-5.5	3.2	8°
288.300.48T	1	300	48	50	3/15/80	CO + FLAT	4.3-5.5	3.2	10°





### **281-282 INDUSTRIAL**





#### **MACHINES**



#### **MATERIALS**

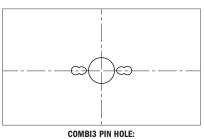








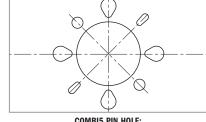
ORDER NO.		<b>D</b> mm	T	<b>B</b> mm	PIN HOLE	β	K mm	P mm	α
281.680.10M	1	250	80	30	COMBI3	TCG	3.2	2.2	5°
281.672.12M	1	300	72	30	COMBI3	TCG	3.2	2.2	10°
282.060.12M	1	300	60	30	COMBI3	TCG	4.4	3.2	16°
282.060.12W	1	300	80	30	COMBI5	TCG	4.4	3.2	16°
282.072.14X	1	350	72	75	4/15/105 + 3/7/100	TCG	4.4	3.2	16°
281.708.14M	1	350	108	30	COMBI3	TCG	3.5	2.5	5°
282.072.14J2	1	355	72	65	2/9/100 + 2/9/110	TCG	4.4	3.2	16°
282.072.14W2	1	355	72	80	4/9/100 + 2/9/110 + 2/14/110	TCG	4.4	3.2	10°
282.072.15U2	1	380	72	60	COMBI5	TCG	4.4	3.2	15°
282.072.15U	1	380	72	60	COMBI7	TCG	4.8	3.5	16°
282.072.16M	1	400	72	30	2/10/60	TCG	4.4	3.2	16°
282.072.16U	1	400	72	60	COMBI7	TCG	4.4	3.2	16°
282.072.16X	1	400	72	75	4/15/105	TCG	4.4	3.2	16°
282.072.16W	1	400	72	80	COMBI5	TCG	4.4	3.2	16°
282.072.17X	1	430	72	75	4/15/105	TCG	4.4	3.2	16°
282.072.17W2	1	430	72	80	COMBI5	TCG	4.4	3.2	16°
282.072.18U	1	450	72	60	COMBI7	TCG	4.8	3.5	16°
282.072.18W2	1	450	72	80	COMBI5	TCG	4.8	3.5	16°
282.072.20U	1	500	72	60	COMBI7	TCG	4.8	3.5	16°

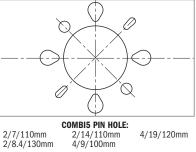


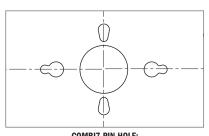
2/9/46.4mm

2/10/60mm

2/7/42mm







2/10/80mm 2/11/148mm

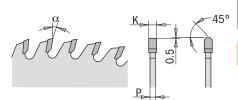
**COMBI7 PIN HOLE:** 1/11/85mm 2/14/100mm

2/11/115mm 2/14/125mm











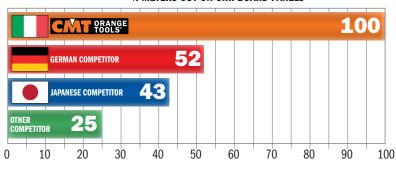
WOOD



#### **NANO GRAIN CARBIDE**

Cutting teeth are made from an exclusive high-pressure sintering and the use of nano grain carbide powders make the material free of porosity, extremely hard and compact, with excellent tenacity that ensures greater resistance to wear as compared to others and exceptional durability.

#### **% METERS CUT ON CHIPBOARD PANELS**







HOW TO RE-SHARPEN A CMT DPX BLADE



#### **MACHINES**











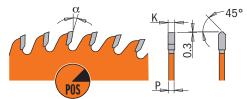
ORDER NO.	8	<b>D</b> mm	T	B mm	PIN HOLE	β	K mm	P	α
282.300.60M	1	300	60	30	COMBI3	TCG	4.4	3.2	15°
282.300.60W	1	300	60	80	COMBI5	TCG	4.4	3.2	15°
282.320.60J	1	320	60	65	2/9/100 + 2/14/110	TCG	4.4	3.2	15°
282.320.72J	1	320	72	65	2/9/100 + 2/14/110	TCG	4.4	3.2	15°
282.350.72M	1	350	72	30	COMBI3	TCG	4.4	3.2	15°
282.350.72U	1	350	72	60	2/9/100 + 2/14/110	TCG	4.4	3.2	15°
282.350.72X	1	350	72	75	3/7/100 + 4/15/105	TCG	4.4	3.2	15°
282.350.72W	1	350	72	80	COMBI5	TCG	4.4	3.2	15°
282.355.72J	1	355	72	65	2/9/100 + 2/14/110	TCG	4.4	3.2	15°
282.380.72U2	1	380	72	60	2/14/100	TCG	4.4	3.2	15°
282.380.72U	1	380	72	60	COMBI7	TCG	4.8	3.5	15°
282.380.72W	1	380	72	80	COMBI5	TCG	4.4	3.2	15°
282.400.72M	1	400	72	30	COMBI3	TCG	4.4	3.2	15°
282.400.72X	1	400	72	75	2/14/100 + 4/15/105 + 2/7/110	TCG	4.4	3.2	15°
282.400.72W	1	400	72	80	COMBI5	TCG	4.4	3.2	15°
282.430.72J	1	430	72	65	2/9/100 + 2/14/110	TCG	4.4	3.2	15°
282.450.72M	1	450	72	30	2/10/60 + 2/14/95	TCG	4.4	3.2	15°
282.450.72U	1	450	72	60	COMBI7	TCG	4.8	3.5	15°
282.520.60V	1	520	60	70	4/11/130	TCG	4.8	3.5	15°





# 284 ORANGE SHIELD®









#### **MACHINES**

#### \*WITH MEC/MAN WORKPIECE CLAMPING







Blade diameter compatibility is contingent on machine type.









For specific details regarding suggested materials, please check blade label.

ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	K inches	P inches	α
284.700.10	1	10	254	96	5/8	TCG	0.126	0.098	6°
284.720.12	1	12	305	108	1	TCG	0.126	0.098	6°



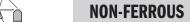


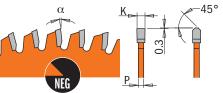
#### 296-297 ORANGE SHIELD® INDUSTRIAL













#### **MACHINES**













Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**











#### 225





ORDER NO.	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
225.060.08	1	8-1/2	216	60	5/8	TCG	0.122	0.098	-7°
225.672.10	1	10	254	80	5/8	TCG	0.126	0.098	-6°
225.696.12	1	12	305	96	1	TCG	0.126	0.098	-6°
225.709.12	1	12	305	108	5/8	TCG	0.126	0.098	-6°
225.700.14* ■	1	14	355	100	1	TCG	0.126	0.098	-6°
225.720.14	1	14	355	120	1	TCG	0.142	0.118	-6°
225.700.16*	1	16	406	100	1	TCG	0.150	0.126	-6°
225.728.18* ■	1	18	457	128	1	TCG	0.150	0.126	-6°

#### 296-297 FOR MACHINES WITH METRIC ARBOR



ORDER NO.	8	inches <b>D</b>	mm	T	<b>B</b> mm	PIN HOLE	β	<b>K</b> inches	P inches	α
296.160.56H •	10	-	160	56	20	2/6/32	TCG	0.087	0.064	-6°
296.165.56H	10	6-1/2	165	56	20	2/6/32	TCG	0.087	0.064	-6°
296.210.64M •	10	8-1/4	210	64	30	2/7/42	TCG	0.110	0.087	-6°
297.080.11M*•	5	-	260	80	30	COMBI3	TCG	0.126	0.098	-6°

<sup>•</sup> Ideal for FESTOOL® & others **■ Ideal for Track Saws** 

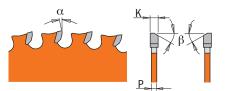
■ Until stock last

<sup>\*</sup>NOT ORANGE SHIELD®





# 226 ORANGE SHIELD® INDUSTRIAL





#### **MACHINES**





Blade diameter compatibility is contingent on machine type.











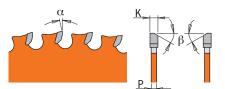


	ORDER NO.	8	<b>D</b> inches	Т	В	PIN HOLE	β	<b>K</b> inches	P inches	α	MAX RPM
w	226.150.60H	10	5-7/8	60	20mm	-	FWF 8°	0.064	0.047	0°	6000
	226.165.60H	10	6-1/2	60	20mm (+5/8")	2/6/32	FWF 8°	0.064	0.047	0°	6000
W	226.069.07H	10	7	70	20mm	2/6/32	FWF 8°	0.071	0.055	0°	6000
w	226.070.07	5	7-1/4	70	5/8"	Knok Out <>	FWF 8°	0.071	0.055	0°	6000
	226.060.10	5	10	60	1" (+5/8")	-	FWF 8°	0.087	0.071	0°	3000
	226.080.12	5	12	80	1"	-	FWF 8°	0.087	0.071	0°	2000
	226.090.14	5	14	90	1"	-	FWF 8°	0.087	0.071	0°	2000





# 226 ORANGE SHIELD® INDUSTRIAL





**METAL & STEEL** 

#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**











	ORDER NO.		D	T	В	PIN HOLE	β	<b>K</b> inches	P inches	α	MAX RPM
	226.030.05	10	5-3/8"	30	10mm	-	FWF 8°	0.059	0.047	0°	6000
	226.030.05H	10	5-3/8"	30	20 (+10mm+1/2")	-	FWF 8°	0.059	0.047	0°	6000
	226.030.06H •	10	160mm	30	20mm	2/6/32	FWF 8°	0.079	0.064	0°	6000
	226.036.06	10	6-1/2"	36	5/8"	-	FWF 8°	0.064	0.047	0°	6000
	226.036.06H	10	165mm	36	20mm	2/6/32	FWF 8°	0.064	0.047	0°	6000
new	226.048.06	10	6-1/2"	48	5/8"	Knok Out < >	FWF 8°	0.064	0.047	0°	6000
new	226.047.07H	10	7"	48	20mm	2/6/32	FWF 8°	0.079	0.064	0°	6000
new	226.036.07	10	7-1/4"	36	5/8"	Knok Out < >	FWF 8°	0.079	0.064	0°	6000
	226.048.07	10	7-1/4"	48	5/8"	-	FWF 8°	0.079	0.064	0°	6000
	226.048.08	10	8-8-1/4"	48	5/8"	-	FWF 8°	0.087	0.071	0°	4500
	226.048.08M •	10	8-1/4"	48	30mm (+1"+5/8")	2/7/42	FWF 8°	0.087	0.071	0°	4500
new	226.046.09	5	9"	46	1"	-	FWF 8°	0.079	0.064	0°	3500
	226.048.10	5	10"	48	1" (+5/8")	-	FWF 8°	0.087	0.071	0°	3000
	226.060.12	5	12"	60	1"	-	FWF 8°	0.087	0.071	0°	2000
	226.072.14	5	14"	72	1"	-	FWF 8°	0.087	0.071	0°	2000

• Ideal for **FESTOOL**® & others

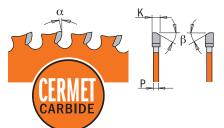
**■ Ideal for Track Saws** 

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# 226 ORANGE SHIELD® INDUSTRIAL





#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**













Suggested for Stainless steel of common use, such as 302, 303 and 304.

With higher degrees of hardness, performance is not guaranteed (e.g. 316)

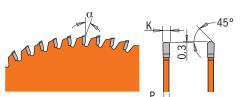
ORDER NO.	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α	MAX RPM
226.548.07	10	7-1/4	184	48	5/8 🕸	TCG	0.079	0.064	0°	6000
226.572.10	5	10	254	72	1 (+5/8)	FWF 10°	0.087	0.071	0°	3000
226.580.12	5	12	305	80	1	FWF 10°	0.087	0.071	0°	2000
226.590.14	5	14	355	90	1	FWF 10°	0.087	0.071	0°	2000

## Heavy-Duty Solid Surface & Composite Decking - LONG LIFE





# 223 ORANGE SHIELD® INDUSTRIAL







#### **MACHINES**



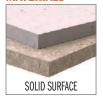






Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**







ORDER NO.		inches <b>D</b>	mm	T	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
223.048.06H*	1	-	160	48	20mm	2/6/32	MTCG	0.087	0.064	0°
223.672.10	1	10	254	72	5/8	-	MTCG	0.126	0.098	0°
223.684.12	1	12	305	84	1	-	MTCG	0.126	0.098	0°

<sup>•</sup> Ideal for FESTOOL® & others

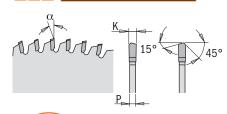
41

<sup>\*</sup>ORANGE CHROME®





#### 222 INDUSTRIAL







#### **MACHINES**







Blade diameter compatibility is contingent on machine type.





ORDER NO.	8	inches	mm	Т	<b>B</b> inches	β	K inches	P inches	α
222.080.10	1	10	254	80	5/8	MATB	0.110	0.087	-3°
222.096.12	1	12	305	96	1	MATB	0.110	0.087	-3°







#### 230,224

Yet another practical solution for making box and finger joints easily and quickly. This set contains two identical blades featuring 24 teeth and 5/8" bore. This not only offers the distinctive advantage of producing 1/4" grooves with the use of one single blade but also extends the groove to 3/8" thickness by laying the two blades upon each other, with no setting and shims needed.

# **PERFORMANCE**

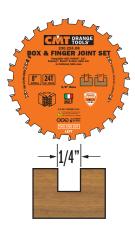
**WOOD** 

#### The set highlights:

- Excellent and precise cuts on soft and hardwood for fine joinery
- Only one cutter, instead of two, is required for producing 1/4" thick grooves, no longer two
- 3 shims for adjustment after re-sharpening
- You will need to lay two cutters upon each other for making 3/8" grooves.

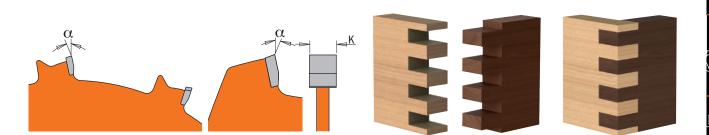
#### **SET INCLUDES:**

Left Outside Blade 8" (qty: 1) Right Outside Blade 8" (qty: 1) Shims 0.004" (qty: 3) **SPARE PART SET:** Shim 0.008" (qty: 2) **299.000.09** 









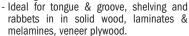
ORDER NO.	8	inches <b>D</b>	mm	Т	<b>B</b> inches	SHIMS	β	<b>K</b> inches	P inches	α
230.224.08	3	8	203	24+24	5/8	2 x 0.004 + 1 x 0.012	FLAT	1/4" -> 3/8"	-	0°







CMT designed a new Dado Pro Set with the following features:



- ORANGE SHIELD COATING® protect from heat, gumming and corrosion.
- New Setting Points for chippers alignment.
  Includes shims and spacers set for micro-thinadjustability.
  - Ideal for underpowered saws.









Read instructions sheet before use (you can also download it from our website).

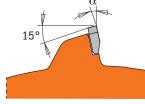
Always use both outside blades. Never use the chippers

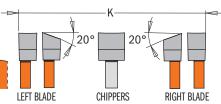
by themselves, or with only one outside blade.
Securely fasten CMT Dado on machine using manufacturer's recommended dado arbor nut.

#### **MACHINES**





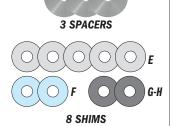














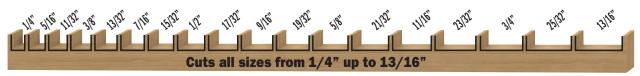






For flat bottom grooves & virtually splinter-free cuts

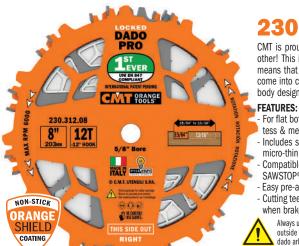
Nominal Widths	1/4"	5/16,,	11/32	ري ري ري ري	13/3	"\". "\". "Je"	15/3	1/2°, 2/2	17/3	9,10	19/3	5,00,	21/3	17/2	23/3	3,4,	25/25	13/16,,
Left Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Right Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chipper 1/8"	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3
Spacer 1/16"	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	2	2	3
Shim 0.004"	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shim 0.008"	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Shim 0.012"	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Shim 0.020"	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0



ORDER NO.	8	inches	mm	T	<b>B</b> inches	CHIPPERS	β	<b>K</b> inches	SPACER	α
230.012.08	3	8	203	12+12	5/8	3 x 1/8"	ATB 20° + FLAT	1/4 -> 13/16	3 x 1/16"	-12°

Spare parts: 299.000.09 Dado Pro Shim Set





tess & melamines, veneer plywood.

micro-thin adjustability.

dado arbor nut.

SAWSTOP®.

#### INTERNATIONAL PATENT PENDING

CMT is proud to introduce a brand new Locked Dado Pro Set unlike any other! This is the very first Dado ever deemed UNI EN847 compliant. This means that while the Dado is rotating, the assembled elements will never come into contact with each other! This is possible thanks to unique blade body design and 'never before seen' special "lock spacers".

For flat bottom grooves & virtually splinter-free cuts in solid wood, lamina-

- Includes shims (plastics & magnetic) and plastics "lock spacers" set for

Compatible with most radial arm saws and stationary table saws, including

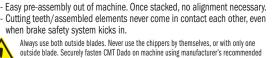


#### WOOD



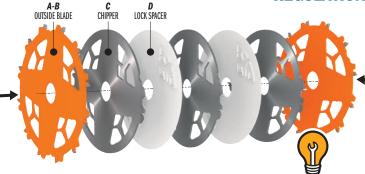
First ever **DADO** in compliance with











#### **MATERIALS**



18184 14 812 1132 318 18132 1118





Cuts All Sizes from 15/64" to 13/16

#### **MACHINES**





**SPARE** 

**PART SET:** 

PTIA 2024 AWARD WINNER 2024 PRO TOOL INNOVATION AWARDS

"RECOGNITION FOR EXCELLENT VALUE, ADVANCED FEATURES AND INNOVATION" www.protoolinnovationawards.com

Sturdy reusable carrying case





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**INSTRUCTIONS ON FRONT & BACK OF** INSERT MUST BE USED TOGETHER



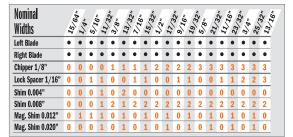
Download instructions sheets from our website

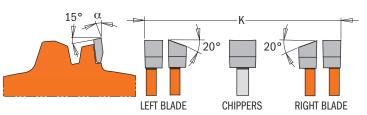


#### **SET INCLUDES:**

- A Left Outside Blade 8" (qty: 1)
- B Right Outside Blade 8" (qty: 1)
- C Chippers 1/8" (qty: 3)
- D Lock Spacers 1/16" (qty: 3)
- **E** Shim 0.004" (qty: 5)
- F Shim 0.008" (qty: 2)
- G Magnetic Shim 0.012" (qty: 1)

299,000,09 H - Magnetic Shim 0.020" (qty: 1)





ORDER NO.	8	inches	mm	Т	<b>B</b> inches	CHIPPERS	β	<b>K</b> inches	SPACER	α
230.312.08	3	8	203	12+12	5/8	3 x 1/8"	ATB 20° + FLAT	15/64" -> 13/16"	3 x 1/16"	-12°





CMT designed a Precision Dado with the following

- New Setting Points for chippers alignment.
  For flat bottom grooves & virtually splinter-free cuts in solid wood, laminates & melamines, veneer plywood.
- Verleer plywood.

  Includes shims (plastics & magnetic) and plastics 
  "lock spacers" set for micro-thin adjustability.

  ORANGE SHIELD COATING® protect from heat,
- gumming and corrosion.





Read instructions sheet before use (you can also download it from our website).

**PERFORMANCE** 

**WOOD** 

Always use both outside blades. Never use the chippers

by themselves, or with only one outside blade.
Securely fasten CMT Dado on machine using manufacturer's recommended dado arbor nut.



WOOD











#### 230.524.08 SET INCLUDES:

- A Left Outside Blade (qty: 1)
- B Right Outside Blade (qty: 1)
- **C** Chippers 1/8" (qty: 3)
- D Spacers 1/16" (qty: 3)
- E Shims 0.004" (qty: 5)
- **F** Shim 0.008" (qty: 1)
- G Magnetic Shim 0.012" (qty: 1)
- H Magnetic Shim 0.020" (qty: 1) SPARE

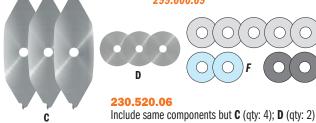




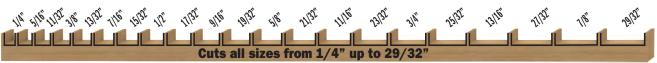




Download instructions sheets from our website



Nominal Widths	1/4"	5/10.	11/3	3/8"	13,3	77.0	15/35	1/2,	17/2	9/10	19/3	5,00,	21/3	17/2	23/3	3/4"	25/35	13/2	27/2	"\ "\ "\ "\ "\ "\ "\ "\ "\ "\ "\ "\ "\ "	29/32,,
Left Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Right Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chipper 1/8"	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4
Spacer 1/16"	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	2	2
Shim 0.004"	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1
Shim 0.008"	0	0	1	1	0	1	0	1	1	1	1	1	1	1	1	0	1	0	1	0	1
Mag. Shim 0.012"	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1	1	1	1	1	1
Mag. Shim 0.020"	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1

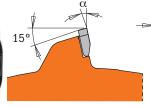


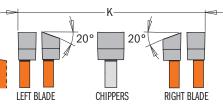












				230.324.0	0					
ORDER NO.	8	inches	mm	Т	<b>B</b> inches	CHIPPERS	β	<b>K</b> inches	SPACER	α
230.520.06	3	6	152	20+20	5/8	4 x 1/8"	ATB 20° + FLAT	1/4 -> 29/32	2 x 1/16"	-12°
230.524.08	3	8	203	24+24	5/8	4 x 1/8"	ATB 20° + FLAT	1/4 -> 29/32	2 x 1/16"	-12°





#### INTERNATIONAL PATENT PENDING

CMT is proud to introduce a brand new Locked Precision Dado Set unlike any other! This is the very first 24T Dado ever deemed UNI EN847 compliant. This means that while the Dado is rotating, the assembled elements will never come into contact with each other! This is possible thanks to unique blade body design and 'never before seen' special "lock spacers".

#### FEATURES:

- Ultra Finish flat bottom grooves & chip free dadoes in solid wood, veneered plywoods, laminates and melamines.
- Includes shims (plastics & magnetic) and plastics "lock spacers" set for micro-thin adjustability.
- Compatible with most radial arm saws and stationary table saws, including SAWSTOP®.
- Easy pre-assembly out of machine. Once stacked, no alignment necessary.
- Cutting teeth/assembled elements never come in contact each other, even when brake safety system kicks in.

Always use both outside blades. Never use the chippers by themselves, or with only one outside blade. Securely fasten CMT Dado on machine using manufacturer's recommended





#### WOOD



First ever **DADO** in compliance with





1.2184 14 2118 11132 318, 12131, 1118, 12131,







#### **MATERIALS**

A-B









**SET INCLUDES:** A - Left Outside Blade 8" (qty: 1) B - Right Outside Blade 8" (qty: 1)

c - Chippers 1/8" (qty: 3) **D** - Lock Spacers 1/16" (qty: 3)

**E** - Shim 0.004" (qty: 5)

F - Shim 0.008" (qty: 2)

G - Magnetic Shim 0.012" (qty: 1)

**H** - Magnetic Shim 0.020" (qty: 1)



**SPARE** 

**PART SET:** 

299,000,09

13/16



#### 2025 PRO TOOL INNOVATION AWARDS

TABLE SAW BLADE WINNER "RECOGNIZED FOR EXCELLENCE IN INNOVATION AND PERFORMANCE" www.protoolinnovationawards.com

Sturdy reusable carrying case







**INSTRUCTIONS ON FRONT & BACK OF** INSERT MUST BE USED TOGETHER

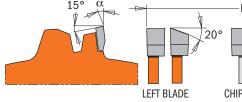
47



Download instructions sheets from our website

#### Cuts All Sizes from 15/64" to 13/16

Nominal Widths	15,0	1/04"	5/10	17.00	(2) E	13/2	100	15/2	1/32	17/2	9,32,	19	5,82	27.5	17 32	23/2	3/1/2	" 40	13,75
Left Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Right Blade	٠	•	•	•	٠	•	•	•	٠	•	٠	•	٠	•	٠	•	٠	•	•
Chipper 1/8"	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3
Lock Spacer 1/16"	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	2	2	3
Shim 0.004"	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Shim 0.008"	0	0	0	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Mag. Shim 0.012"	0	1	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Mag. Shim 0.020"	0	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0



15° α	20°	K 20°	
	LEFT BLADE	CHIPPERS	RIGHT BLADE

ORDER NO.	8	inches	mm	T	<b>B</b> inches	CHIPPERS	β	<b>K</b> inches	SPACER	α
230.324.08	3	8	203	24+24	5/8	3 x 1/8"	ATB 20° + FLAT	15/64" -> 13/16"	3 x 1/16"	-12°





# 240-241 ATB ATB ATB



#### MACHINES





**BISCUIT JOINER** 





ORDER NO.	8	inches	mm	T	<b>B</b> mm	PIN HOLE	β	<b>K</b> inches	P inches	α
240.006.04	10	4	100	6	22	4/4.5 - 9.5/36	ATB 10°	0.156	0.118	18°
240.008.04	10	4	100	8	22	4/4.5 - 9.5/36	ATB 10°	0.156	0.118	15°
241.008.04	10	4	100	8	22	-	FLAT	0.156	0.122-0.150	15°

• Ideal for VIRUTEX®

#### Calibration & Sanding Disks





299.11 If you're looking for fast and easy saw alignment and balancing, the cut calibration and sanding disk is for you. First, mount your calibration and sanding disk in your table saw and line it up with a square for accuracy. Then, remove the calibration and sanding disk and mount your saw blade for true precise cuts. You can also use the calibration and sanding disk as a sander by simply attaching self-stick sandpaper and installing the disk in your table saw.



ORDER NO.	8	<b>D</b> inches	<b>B</b> inches	P inches
299.111.00	10	8	5/8	0.110
299.112.00	10	10	5/8	0.110

#### Saw Blades Stabilizers



299.10

The CMT blade stabilizer virtually eliminates rim vibration to make cleaner, straighter cuts and extend the life of your CMT saw blade. It also helps lessen noise caused by vibration during cutting.

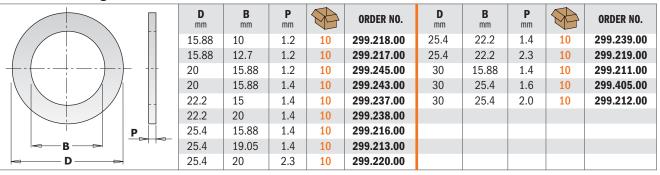


ORDER NO.	8	DESCRIPTION	<b>D</b> inches	<b>B</b> inches	P inches
299.101.00	5	Stabilizer (2 pcs.) for 8" blades	3	5/8	0.118
299.102.00	5	Stabilizer (2 pcs.) for 10" blades	5	5/8	0.118
299.103.00	5	Stabilizer (2 pcs.) for 12" blades	6	1	0.118

NOTE: for use on stationary saws only. Each order includes 2 stabilizers.

## Reduction Rings for Saw Blades

299



# XTREME



Construction Domination!!! Winner of the 2023, 2024 & 2025 Pro Tool Innovation Awards for Best 7-1/4" Saw Blades. CMT's patented Low Mass Plate Design and Secured Tooth Geometry ensures that your blade provides the fastest cut, greatest resistance to nails, and longest life to provide the highest value experience. Zero Gravity and Demolition are the future presented now.







**EXCLUSIVE SECURED TOOTH GEOMETRY** VERY EFFICIENT CHIP EVACUATION

HANDLES THICKER MATERIALS WITH MINIMUM EFFORT

New gullet design is more efficient at clearing wood chips quickly. The saw blade becomes lighter to feed,

is faster in the cut and handles thicker materials better.



the blade plate for superior nail impact resistance.



**BETTER HANDLES IMPACT WITH NAILS CUTS MORE NAILS THAN COMPETITORS** Engineered to ensure the longest tool life under the most demanding conditions. Tips are brazed deep inside





250 FRAMING



**INTERNATIONAL DESIGN PATENT DM/235175** 



**EXCLUSIVE SECURED TOOTH GEOMETRY VERY EFFICIENT CHIP EVACUATION** HANDLES THICKER MATERIALS WITH MINIMUM EFFORT

New gullet design is more efficient at clearing wood chips quickly. The saw blade becomes lighter to feed, is faster in the cut and handles thicker materials better.



#### LOW MASS PLATE DESIGN

Patented design that reduces blade mass minimizes heat and substantially increases cutting efficiency with cordless and corded saws. More cuts. Less battery.





#### **WOOD**



AWARD WINNER

2024 PRO TOOL INNOVATION AWARDS

"RECOGNITION FOR EXCELLENT VALUE, ADVANCED FEATURES AND INNOVATION" www.protoolinnovationawards.com

#### **MACHINES**



**EFFORTLESS** 

**CUTS** 





OPTIMIZED FOR 7-1/4" CORDED OR CORDLESS

#### **MATERIALS**















ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
250.324.06-X10	Bulk Pack 10 pcs.	50	6-1/2	165	24	5/8 🍣	ATB 5°	0.070	0.047	15°
250.324.07	Clamshell	3	7-1/4	184	24	5/8 🌣	ATB 5°	0.070	0.047	15°
250.324.07-X10	Bulk Pack 10 pcs.	50	7-1/4	184	24	5/8 🌣	ATB 5°	0.070	0.047	15°

# ORANGE TOOLS

CMT ORANGE

#### 250 FRAMING WORMDRIVE



8	COLUMN A/8" Box	
	BRADWINGAS	
*	D-U	250.324.07W-X1
7		BULK PACK 10 PCS.
No.	OCCUPATION OF THE PARTY OF THE	

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
250.324.07W-X10	Bulk Pack 10 pcs.	50	7-1/4	184	24	5/8 🌣	ATB 5°	0.070	0.047	15°

71/5 24

71/4 24









WOOD





**EXCLUSIVE SECURED TOOTH GEOMETRY** 

- VERY EFFICIENT CHIP EVACUATION
- HANDLES THICKER MATERIALS WITH MINIMUM EFFORT

New gullet design is more efficient at clearing wood chips quickly. The saw blade becomes lighter to feed, is faster in the cut and handles thicker materials better.



#### LOW MASS PLATE DESIGN

Patented design that reduces blade mass minimizes heat and substantially increases cutting efficiency with cordless and corded saws.

More cuts. Less battery.

#### **MACHINES**



**CUTS** 



DON'T LET YOUR BLADE BE A DRAG...





Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**













	ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
new	251.324.04	Clamshell	3	4-1/2	115	24	3/8	ATB 8°	0.070	0.047	20°
	251.340.06-X10	Bulk Pack 10 pcs.	50	6-1/2	165	40	5/8 🗇	ATB 15°	0.070	0.047	10°
new	251.348.06H	Clamshell	1	6-1/2	165	48	20mm (+5/8)	ATB 10°	0.070	0.047	10°
	251.340.07	Clamshell	3	7-1/4	184	40	5/8 🗇	ATB 10°	0.070	0.047	15°
	251.340.07-X10	Bulk Pack 10 pcs.	50	7-1/4	184	40	5/8 🕸	ATB 10°	0.070	0.047	15°

**■ Ideal for Track Saws** 



BULK PACK 10 PCS.







#### 236 TREME FIBER CEMENT





## **OVATIONS DESIGN PATENT PENDING**



2025 PRO TOOL INNOVATION AWARDS

"RECOGNITION FOR EXCELLENT VALUE, ADVANCED FEATURES AND INNOVATION" www.protoolinnovationawards.com



#### **MULTI-MATERIALS**



#### **BULK PACK 10 PCS.**

#### **MACHINES**

**MATERIALS** 







Blade diameter compatibility is contingent on machine type.

EXCLUSIVE SECURED TOOTH GEOMETRY
- VERY EFFICIENT MATERIAL REMOVAL
- HANDLES THICKER MATERIALS WITH MINIMUM EFFORT
New gullet design is more efficient at clearing material quickly.
The caw hidde becomes lighter to face

The saw blade becomes lighter to feed, is faster in the cut and handles thicker materials better.





#### OW MASS PLATE DESIGN

Patented design that reduces blade mass minimizes heat and substantially increases cutting efficiency with cordless and corded saws. More cuts. Less battery.



#### POLYCRYSTALLINE DIAMOND

Polycrystalline diamond teeth, bonded to a carbide base, last up to 60 times longer than carbide alone. PCD/DP delivers the same cutting quality, but provides superior durability and extended







Ideal for: SWISSPEARL® FERMACELL® IVARPLANK® HARDIEPLANK® HARDIEPANEL®

 $\mathsf{DUROCK}^{\circledast}$ CEMPLANK® CERTAIN TEED® NICHIHA®



#### PRECISION SHARPENING WITH EROSION MACHINING

Each polycrystalline diamond tooth is precision ground using electrical discharge machinery (Erosion), providing extra-clean cutting performance and extended life.

ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
236.304.06	Clamshell	3	6-1/2	165	4	5/8 🕸	ATB 10°	0.075	0.047	10°
236.304.07	Clamshell	3	7-1/4	184	4	5/8 🗇	ATB 10°	0.075	0.047	10°
236.304.07-X10	Bulk Pack 10 pcs.	50	7-1/4	184	4	5/8 🗇	ATB 10°	0.075	0.047	10°



#### MACHINES







Blade diameter compatibility is contingent STATIONARY TABLE SAW on machine type.





Ideal for: SWISSPEARL® FERMACELL® IVARPLANK® HARDIEPLANK®

ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	K inches	P inches	α
236.306.10	Clamshell	3	10	254	6	5/8	ATB 10°	0.087	0.064	10°
236.308.12	Clamshell	3	12	305	8	1	ATB 10°	0.087	0.064	10°





# 286 TEME DEMOLITION



# **INNOVATIONS**

INTERNATIONAL DESIGN PATENT DM/220693

OW MASS PLATE DESIGN

minimizes heat and substantially

with cordless and corded saws. More cuts. Less battery.

increases cutting efficiency

Patented design that reduces blade mass



**WOOD & NAILS** 



EXCLUSIVE SECURED TOOTH GEOMETRY
- BETTER HANDLES IMPACT WITH NAILS
- CUTS MORE NAILS THAN COMPETITORS
Engineered to ensure the longest tool life under the most demanding conditions. Tips are brazed deep inside the blade plate for superior nail impact resistance.



A W A R D W I N N E R

2023 PRO TOOL INNOVATION AWARDS

Circular Saw BLADE WINNER

"RECOGNITION FOR EXCELLENT VALUE,
ADVANCED FEATURES AND INNOVATION"
www.protoolinnovationawards.com

## **BEST EVER AT NAIL CUTTING**

#### **MACHINES**







Blade diameter compatibility is contingent on machine type.

# COMPARATIVE TEST: PERFORMED ON WOOD WITH "LOOSE" NAILS (NOT EMBEDDED). 320 NAILS CUT AND STILL GOING STRONG!

You Tube

Watch the video on

#### **MATERIALS**







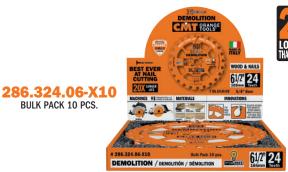






ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
286.760.24H •	Cardboard box	1	6-1/4	160	24	20mm	2/6/32	ATB 5°	0.090	0.047	5°
286.765.24H	Cardboard box	1	6-1/2	165	24	20mm	2/6/32	ATB 5°	0.090	0.047	5°
286.324.06-X10	Bulk Pack 10 pcs.	50	6-1/2	165	24	5/8 🗇	-	ATB 5°	0.090	0.047	5°
286.324.07	Clamshell	3	7-1/4	184	24	5/8 🗇	-	ATB 5°	0.090	0.047	5°
286.324.07-X10	Bulk Pack 10 pcs.	50	7-1/4	184	24	5/8 🔷	-	ATB 5°	0.090	0.047	5°

- Ideal for FESTOOL® & others
- **Ideal for Track Saws**







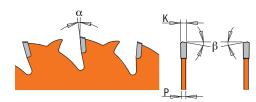
286.324.07-X10 BULK PACK 10 PCS.

**53** 











#### **MACHINES**







Blade diameter compatibility is contingent on machine type.













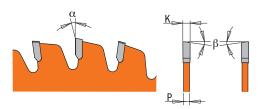
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
257.036.07	Clamshell	3	7-1/4	184	36	5/8 🗇	MATB	0.067	0.047	5°











**METAL & STEEL** 

#### **MACHINES**







Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**













Suggested for Stainless steel of common use, such as 302, 303 and 304.

With higher degrees of hardness, performance is not guaranteed (e.g. 316)

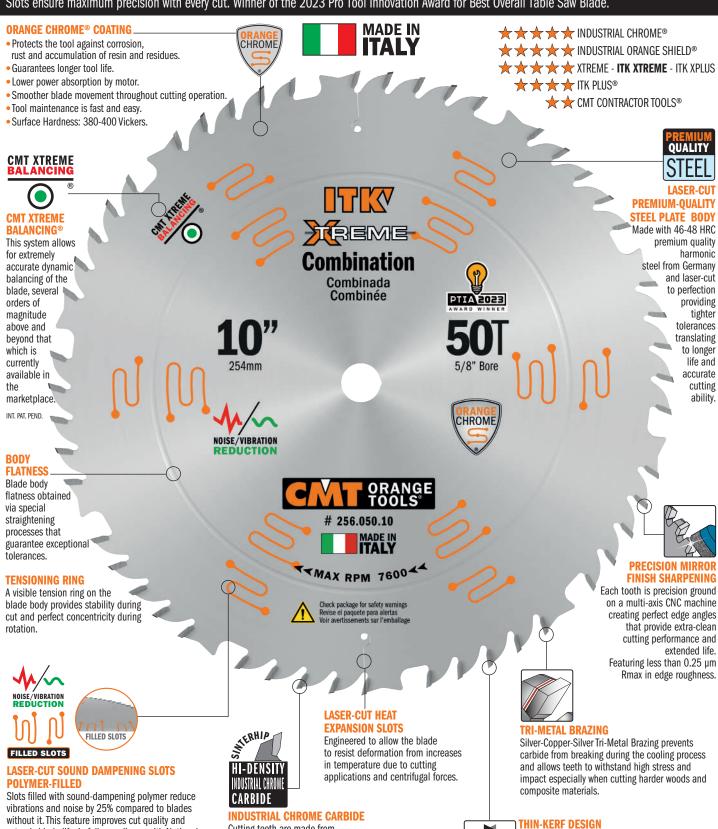
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
226.348.07	Clamshell	3	7-1/4	184	48	5/8�	FWF 8°	0.082	0.064	0°

# ITK XTREME



CMT's Thin-Kerf is designed for the professional woodworker and construction carpenters demanding outstanding cut, minimal stock removal and the least possible stress to your saw! Additionally, our patented CMT XTreme Balancing® and Filled, Laser-Cut, Slots ensure maximum precision with every cut. Winner of the 2023 Pro Tool Innovation Award for Best Overall Table Saw Blade.



Cutting teeth are made from

a specially formulated chrome

carbide which stays sharper longer

by reducing cutting edge abrasion,

improving cut quality and tool life.

extends blade life. In full compliance with National

Noise Emission Standards and Regulations.

Thin-kerf blades are ideal for cordless

circular saws because they consume less

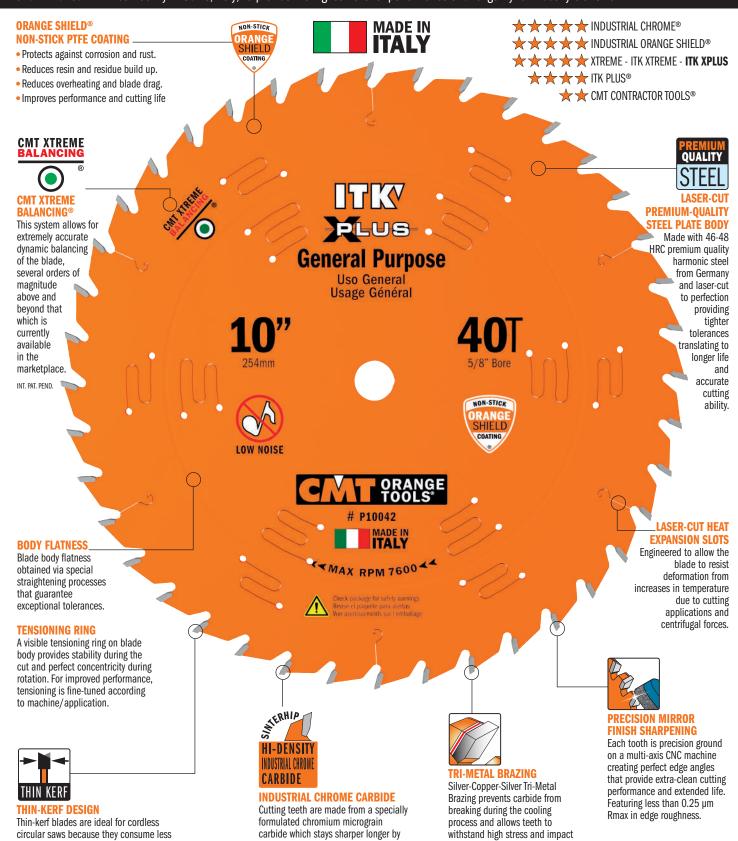
power, extending battery life, and enable

higher cutting speeds, improving efficiency.

# **ITK XPLUS**



Industrial Thin-Kerf is the best fit for onsite contractors as well as woodworkers and DIY enthusiasts. This blade line delivers an outstanding cut, minimal stock removal and creates the least possible stress to your saw! The CMT Orange Shield® Coating is chemically engineered, and kiln-dried within our facility in Udine, Italy, to provide the highest level of performance and longevity for industry craftsman.



reducing cutting edge abrasion,

improving cut quality and tool life.

especially when cutting harder

woods and composite materials.

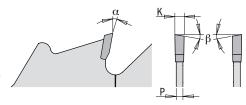
power, extending battery life, and enable

higher cutting speeds, improving efficiency.





#### 250 TKY TREME











#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















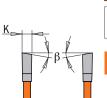
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	<b>D</b> inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
250.024.08	Clamshell	3	8-8/1-4	210	24	5/8 🕸	ATB 15°	0.082	0.047	20°
250.024.10	Clamshell	3	10	254	24	5/8	ATB 10°	0.102	0.071	10°











**WOOD** 



#### **MACHINES**









Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















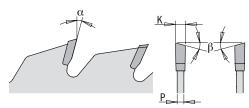
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P08024	Clamshell	3	8-8-1/4	210	24	5/8 🗇	ATB 15°	0.082	0.047	20°
P10024	Clamshell	3	10	254	24	5/8	ATB 10°	0.102	0.071	10°





#### 251 TW TREME











#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**

















For specific details regarding suggested materials, please check blade label.

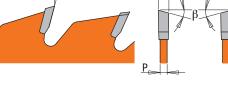
ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
251.042.10	Clamshell	3	10	254	40	5/8 🗇	ATB 15°	0.110	0.071	15°
251.045.12	Clamshell	3	12	305	48	1	ATB 15°	0.110	0.071	-10°













#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**





#### **MATERIALS**













ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P10042	Clamshell	3	10	254	40	5/8 🕸	ATB 15°	0.110	0.071	15°
P12042	Clamshell	3	12	305	48	1	ATB 15°	0.110	0.071	-10°

#### **MACHINES**







# MATERIALS

BIG 4"x4"

	ORDER NO.	PACKAGING	8	<b>D</b> inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
D	P10042W •	Clamshell	3	10-1/4	260	32	5/8 🗇	ATB 10°	0.102	0.071	10°





#### 256 ITW TREME

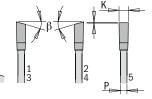








WOOD



#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**







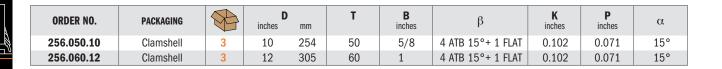
2023 PRO TOOL INNOVATION AWARDS
TABLE SAW BLADE WINNER
"RECOGNITION FOR EXCELLENT VALUE,
ADVANCED FEATURES AND INNOVATION"
www.protoolinnovationawards.com



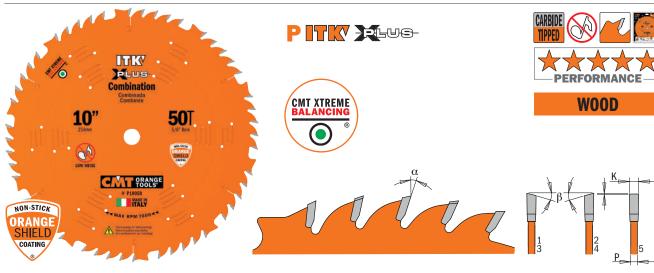












#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**











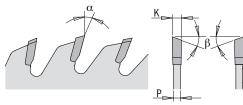


	ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
	P10050	Clamshell	3	10	254	50	5/8	4 ATB 15°+ 1 FLAT	0.102	0.071	15°
new	P12060	Clamshell	3	12	305	60	1	4 ATB 15°+ 1 FLAT	0.102	0.071	15°





#### 251 - 252 TKY TREME











#### **MACHINES**













Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**





















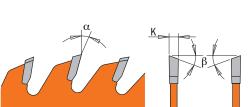
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
251.040.08	Clamshell	3	8-8/1-4	210	40	5/8	ATB 15°	0.094	0.064	10°
252.060.10	Clamshell	3	10	254	60	5/8	ATB 20°	0.102	0.071	15°
252.072.12	Clamshell	3	12	305	80	1	ATB 20°	0.118	0.087	15°













#### **MACHINES**













Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**





















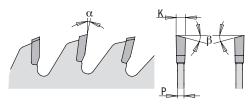
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P08040	Clamshell	3	8-8-1/4	210	40	5/8	ATB 15°	0.094	0.064	10°
P10060	Clamshell	3	10	254	60	5/8	ATB 20°	0.102	0.071	15°
P12072	Clamshell	3	12	305	80	1	ATB 20°	0.118	0.087	15°





#### 253 TW TREME











#### **MACHINES**













Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















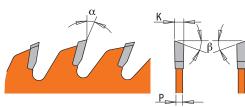
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
253.060.08	Clamshell	3	8/1-2	216	60	5/8	ATB 15°	0.094	0.055	7°
253.060.10	Clamshell	3	10	254	60	5/8	ATB 15°	0.102	0.071	7°
253.072.12	Clamshell	3	12	305	72	1	ATB 15°	0.102	0.071	7°
253.096.14	Clamshell	3	14	355	96	1	ATB 15°	0.110	0.071	7°













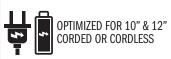
#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















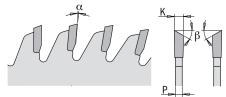
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P08060S	Clamshell	3	8-1/2	216	60	5/8	ATB 15°	0.094	0.055	7°
P10060S	Clamshell	3	10	254	60	5/8	ATB 15°	0.102	0.071	7°
P12072S	Clamshell	3	12	305	72	1	ATB 15°	0.102	0.071	7°





#### 255 TW TREME











#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













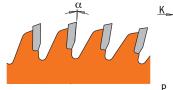


ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
255.080.10	Clamshell	3	10	254	80	5/8	Hi-ATB 30°	0.110	0.071	5°
255.096.12	Clamshell	3	12	305	96	1	Hi-ATB 30°	0.102	0.071	-5°















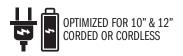
#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













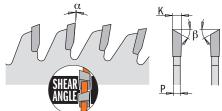


ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P10080	Clamshell	3	10	254	80	5/8	Hi-ATB 30°	0.110	0.071	5°
P12096	Clamshell	3	12	305	96	1	Hi-ATB 30°	0.102	0.071	-5°





#### 255 TKY TREME











#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













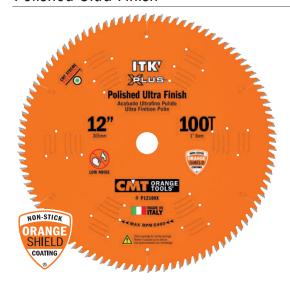


ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
255.090.10X	Clamshell	3	10	254	90	5/8	Hi-ATB 30° + Shear	0.087	0.064	10°
255.100.12X	Clamshell	3	12	305	100	1	Hi-ATB 30° + Shear	0.098	0.071	7°

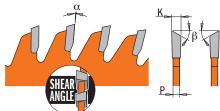
# Polished Ultra Finish















#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













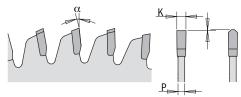


ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P12100X	Clamshell	3	12	305	100	1	Hi-ATB 30° + Shear	0.098	0.071	7°





## 254 TW TREME











### **MACHINES**













Blade diameter compatibility is contingent on machine type.













Ideal for: TREX® TIMBERTECH® AZEK® VERANDA® CHOICEDECK®

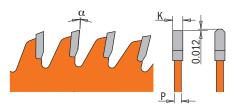
For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
254.056.07	Clamshell	3	7-1/4	184	60	5/8 🗇	TCG	0.098	0.064	-6°
254.080.10	Clamshell	3	10	254	80	5/8	TCG	0.102	0.071	-6°
254.096.12	Clamshell	3	12	305	96	1	TCG	0.102	0.071	-6°















#### **MACHINES**













Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**











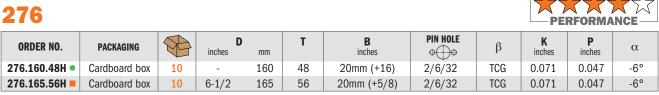


Ideal for: TREX® TIMBERTECH® AZEK® VERANDA® CHOICEDECK®

For specific details regarding suggested materials, please check blade label.

ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
P07056N	Clamshell	3	7-1/4	184	60	5/8 🕸	-	TCG	0.098	0.064	-6°
P10080N	Clamshell	3	10	254	80	5/8	-	TCG	0.102	0.071	-6°
P12096N	Clamshell	3	12	305	96	1	-	TCG	0.102	0.071	-6°

## 276



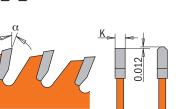
<sup>•</sup> Ideal for FESTOOL® & others

**<sup>■</sup> Ideal for Track Saws** 













#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**















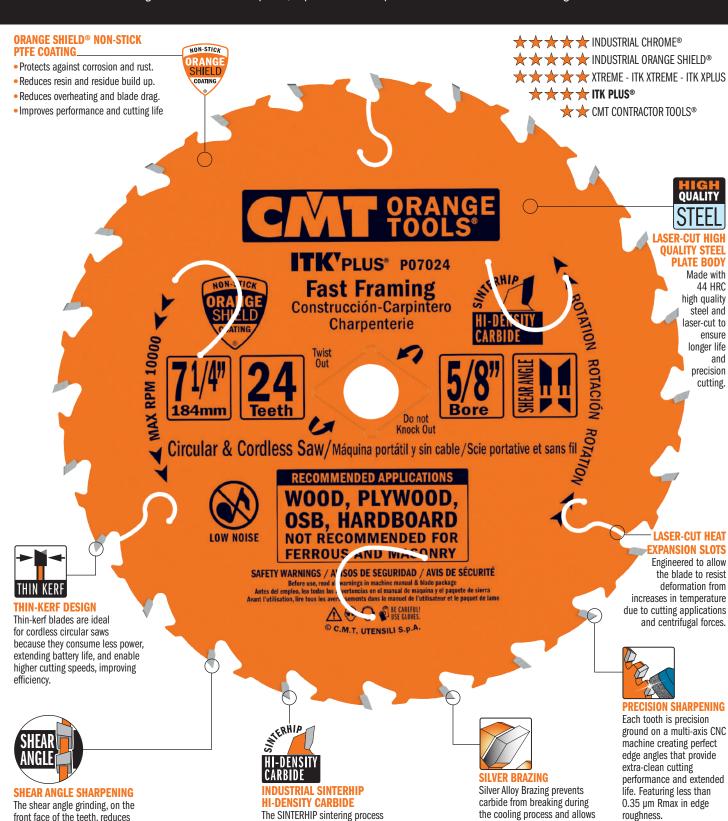


ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P10060L	Clamshell	3	10	254	60	5/8	TCG	0.110	0.071	10°
P12072L	Clamshell	3	12	305	72	1	TCG	0.118	0.087	10°

# ITK PLUS®



Designed for the professional contractor and remodeler, the thin-kerf coated blade line delivers a clean, fast and effortless cut through wood and wood composite, it provides an exceptional balance of features maximizing value.



(Hot Isostatic Pressing) uses high temperature

(up to 3500°F) and high pressure (up to 1500 psi)

to fully consolidate carbide thereby resulting in a

porosity-free product ensuring longer cutting life

over traditional carbide and less risk of breakages.

front face of the teeth, reduces

thereby allowing for smoother

the required cutting force

cutting.

roughness.

teeth to withstand high stress

and impact especially when

cutting harder woods and

composite materials.

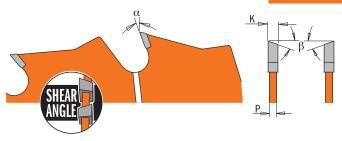




# P - 271 ITK'PLUS®







#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**













BULK PACK 10 PCS.

ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P06018	Clamshell	10	6-1/2	165	18	5/8 🗇	ATB 10° + Shear	0.067	0.039	20°
P06018-X10	Bulk Pack 10 pcs.	30	6-1/2	165	18	5/8 🌣	ATB 10° + Shear	0.067	0.039	20°
P07018-X10	Bulk Pack 10 pcs.	30	7-1/4	184	18	5/8 🍣	ATB 10° + Shear	0.067	0.039	20°
P07024	Clamshell	10	7-1/4	184	24	5/8 🌣	ATB 10° + Shear	0.067	0.039	20°
P07024-X10	Bulk Pack 10 pcs.	30	7-1/4	184	24	5/8 🌣	ATB 10° + Shear	0.067	0.039	20°
P08024 ●	Clamshell	10	8-8-1/4	210	24	5/8 🕸	ATB 15° + Shear	0.067	0.039	20°
271.160.24H •	Clamshell	10	-	160	24	20mm (+16)	ATB 10° + 8° Shear	0.071	0.047	18°
271.165.24H	Clamshell	10	6-1/2	165	24	20mm (+5/8)	ATB 10° + 8° Shear	0.067	0.043	18°

- ITK XPLUS
- $\bullet$  Ideal for  $\textbf{FESTOOL}^{\circledcirc}$  & others
- **Ideal for Track Saws**

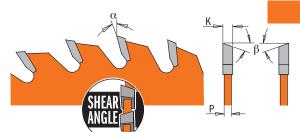




# P - 272 ITK'PLUS®







#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

## **APPLICATIONS**





### **MATERIALS**









<b>BULK PACK 10</b>	PCS.
---------------------	------

ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
272.115.24	Clamshell	10	4-1/2	115	24	3/8 🗇	ATB 10° + 8° Shear	0.059	0.039	20°
P06036	Clamshell	10	6-1/2	165	36	5/8 🕸	ATB 10° + Shear	0.067	0.039	20°
P07040	Clamshell	10	7-1/4	184	40	5/8 🗇	ATB 10° + Shear	0.067	0.039	18°
P07040-X10	Bulk Pack 10 pcs.	30	7-1/4	184	40	5/8 🗇	ATB 10° + Shear	0.067	0.039	18°
P08040 ●	Clamshell	10	8-8-1/4	210	40	5/8	ATB 15°	0.094	0.064	10°
272.160.40H	Clamshell	10	-	160	40	20mm (+16)	ATB 10° + 8° Shear	0.071	0.047	16°
272.165.36H	Clamshell	10	6-1/2	165	36	20mm (+5/8)	ATB 10° + 8° Shear	0.067	0.043	20°

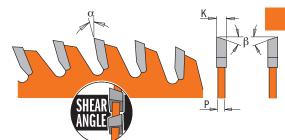
<sup>•</sup> ITK XPLUS

**■ Ideal for Track Saws** 

# P - 273 ITK'PLUS®







### **MACHINES**





Blade diameter compatibility is contingent on machine type.

### **APPLICATIONS**

















BULK PACK 10 PCS.

ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
P06060	Clamshell	10	6-1/2	165	60	5/8 🔷	-	ATB 10° + Shear	0.067	0.039	5°
P07060	Clamshell	10	7-1/4	184	60	5/8 🔷	-	ATB 10° + Shear	0.067	0.039	5°
273.050.20D O	Clamshell	10	-	50	20	10mm	-	ATB 10°	0.043	0.031	15°
273.080.36D O	Clamshell	10	-	80	36	10mm	-	ATB 10°	0.064	0.039	15°
273.160.56H •	Clamshell	10	-	160	56	20mm (+16)	2/6/32	ATB 10° + 8° Shear	0.071	0.047	12°
273.165.56H	Clamshell	10	6-1/2	165	56	20mm (+5/8)	2/6/32	ATB 15° + 8° Shear	0.064	0.039	12°

- oldeal for PROXXON® (Materials: Wood, Plastic, Non-ferrous)
- Ideal for FESTOOL® & others
- **Ideal for Track Saws**

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P07060-X10	Bulk Pack 10 pcs.	30	7-1/4	184	60	5/8 🕸	ATB 10° + Shear	0.067	0.039	5°





# P07140-X10 ITK PLUS®





#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

### **APPLICATIONS**













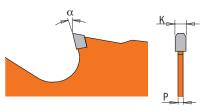
BULK	PACK	10	PCS.
------	------	----	------

ORDER NO.	PACKAGING		inches <b>D</b>	mm	T	<b>B</b> inches	<b>K</b> inches	P inches	α
P07140-X10	Bulk Pack 10 pcs.	30	7-1/4	184	140	5/8 🕸	0.071	0.064	5°





# P07010 ITK PLUS®





#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**

80



Ideal for:
HARDIEPLANK®
HARDIEPANEL®
DUROCK®
CEMPLANK®
CERTAIN TEED®
NICHIHA®

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
P07010	Clamshell	10	7-1/4	184	10	5/8 🕸	TCG	0.071	0.055	12°

# DP - Diamond for Fiber Cement Products - LONG LIFE





## 236 ITK'PLUS®







#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**





Ideal for: SWISSPEARL® FERMACELL® IVARPLANK® HARDIEPLANK®



BULK PACK 10 PCS.

ORDER NO.	PACKAGING		inches <b>D</b>	mm	Т	<b>B</b> inches	PIN HOLE	β	<b>K</b> inches	P inches	α
236.085.06G	Clamshell	10	3-3/8	85	6	15mm	-	TCG	0.071	0.055	12°
236.004.06	Clamshell	10	6-1/2	165	4	5/8 🕸	-	TCG	0.071	0.055	12°
236.165.04H	Clamshell	10	6-1/2	165	4	20mm (+5/8)	2/6/32	TCG	0.071	0.055	12°
236.004.07	Clamshell	10	7-1/4	184	4	5/8 🔷	-	TCG	0.071	0.055	12°
236.004.07-X10■	Bulk Pack 10 pcs.	30	7-1/4	184	4	5/8 🔷		TCG	0.071	0.055	12°
236.006.10	Clamshell	10	10	254	6	5/8	-	TCG	0.087	0.064	12°
236.008.12	Clamshell	5	12	305	8	1	-	TCG	0.087	0.064	12°
236.160.04H •	Clamshell	10	-	160	4	20mm	2/6/32	TCG	0.095	0.071	12°
236.190.04M •	Clamshell	10	-	190	4	30mm	2/7/42	TCG	0.095	0.071	12°
236.210.12M	Clamshell	10	-	210	12	30mm	2/7/42	TCG	0.095	0.071	12°

<sup>■</sup> Ideal for Track Saws

■ Until stock last

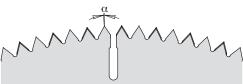
81

<sup>•</sup> Ideal for FESTOOL® & others





# P07120-X10 ITK PLUS®







#### **MACHINES**





**PACKAGING** 

Bulk Pack 10 pcs.

Blade diameter compatibility is contingent on machine type.

#### **MATERIALS**



ORDER NO.

P07120-X10



5/8 🕸

D

184

120

inches

7-1/4

Т	<b>B</b> inches	<b>K</b> inches	Pinches	α

0.071

0.047

5°





## 286 ITK'PLUS®







#### **MACHINES**











ORDER NO.	PACKAGING	8	inches <b>D</b>	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
286.024.12	Clamshell	5	12	305	24	1 (+20mm+7/8)	TCG	0.126	0.098	-5°
286.024.14	Clamshell	5	14	355	24	1 (+20mm+7/8)	TCG	0.137	0.110	-5°

## Multi-Materials CARBIDE Wheel





# **286** FOR ANGLE GRINDER

ORDER NO.	8	<b>D</b> inches	<b>B</b> inches
286.115.01	10	4-1/2	7/8 (+3/8+5/8)
286.125.01	10	5	7/8 (+20mm+5/8)
286.230.01	5	9	7/8

# GRIT



**MULTI-MATERIALS** 

### APPLICATIONS: examples of cutting on wood, wood & nails and plastics.







#### **MACHINES**





Blade diameter compatibility is contingent on machine type.



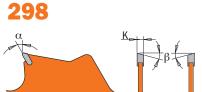
















#### SECURED TOOTH - MORE RESISTANT TO ACCIDENTAL CONTACT

Teeth are welded deep inside blade body which significantly reduces breakage caused by accidental contact with terrain, rocks or stones, masonry work, metal parts, etc.; avoid all contact with these elements wherever possible.

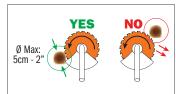
#### **HEAVY DUTY PLATE - THIN, LIGHT AND STRONG**

Cut from the finest steel. Remarkably thin kerf and specifically designed perforations considerably reduce blade weight thereby reducing tool workload.

#### **SAFETY WARNING**

Circular saw blades are suitable for thinning brush and cutting small trees up to a diameter of 2 inches in thickness. Do not attempt to cut trees with larger diameters, since the blade may catch or jerk the clearing saw forward. This may cause damage to the blade or loss of control of the power tool and result in serious injury. Use a chain saw for such work. The operator shall ensure, while working, that no persons or animals come within 50 feet of the tool while in operation. Inspect the work area: remove stones, rocks, pieces of metal and other solid objects which could be thrown by the cutting attachment causing damage to objects or injury to those in close proximity. To reduce the risk of blade/teeth breakage, avoid all contact with terrain, rocks or stones, masonry work, metal parts, etc.





ORDER NO.	PACKAGING	8	<b>D</b> inches	Т	В	RPM max	β	<b>K</b> inches	P inches	α
298.250.20	Clamshell	10	10	20	1" (+20mm)	12.000	ATB 8°	0.079	0.055	2°
298.250.40	Clamshell	10	10	40	1" (+20mm)	12.000	ATB 8°	0.079	0.055	2°





(up to a diameter of Ø5 cm)









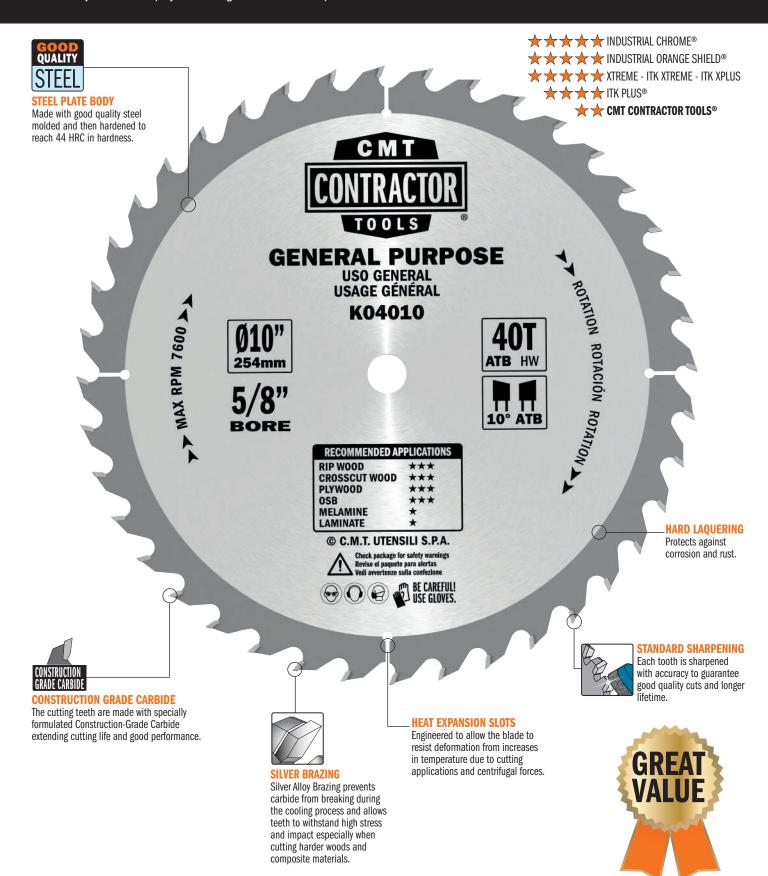




# CMT CONTRACTOR TOOLS®



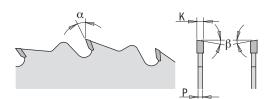
Designed for the professional contractor and remodeler, thin-kerf blade line guarantees great performance at a very appealing price. Ideal for any construction project involving wood or wood composite.













#### **MACHINES**





Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**











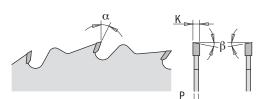


ORDER NO.	PACKAGING	8	inches	<b>D</b>	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
K02406	Clamshell	10	6-1/2	165	24	5/8 🕸	ATB 12°	0.071	0.049	18°
K02406-X10	Bulk Pack 10 pcs.	30	6-1/2	165	24	5/8 🕸	ATB 12°	0.071	0.049	18°
K02407	Clamshell	10	7-1/4	184	24	5/8 🕸	ATB 10°	0.071	0.047	20°
K02407-X10	Bulk Pack 10 pcs.	30	7-1/4	184	24	5/8 🕸	ATB 10°	0.071	0.047	20°
K02408	Clamshell	10	8 - 8-1/4	210	24	5/8 🕸	ATB 10°	0.071	0.047	20°











**WOOD** 

### **MACHINES**







Blade diameter compatibility is contingent on machine type.

### **APPLICATIONS**







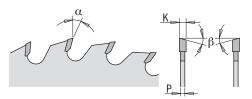


ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
K02410	Clamshell	10	10	254	24	5/8	ATB 10°	0.094	0.064	22°
K02412	Clamshell	5	12	305	24	1	ATB 10°	0.102	0.071	22°











#### **MACHINES**







Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**











ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
K04010	Clamshell	10	10	254	40	5/8	ATB 10°	0.094	0.064	20°
K04012	Clamshell	5	12	305	40	1	ATB 10°	0.102	0.071	20°
K06014	Clamshell	5	14	355	60	1	ATB 10°	0.118	0.087	15°

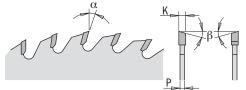








W00D



#### **MACHINES**











Blade diameter compatibility is contingent on machine type.

### **APPLICATIONS**











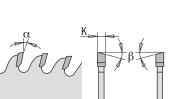
BULK PACK 10 PCS.

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	β	<b>K</b> inches	P inches	α
K03606	Clamshell	10	6-1/2	165	36	5/8 🗇	ATB 10°	0.071	0.047	18°
K04007	Clamshell	10	7-1/4	184	40	5/8 🕸	ATB 10°	0.071	0.047	12°
K04007-X10	Bulk Pack 10 pcs.	30	7-1/4	184	40	5/8 🕸	ATB 10°	0.071	0.047	12°
K04008	Clamshell	10	8 - 8-1/4	210	40	5/8 🕸	ATB 10°	0.071	0.047	20°
K06010	Clamshell	10	10	254	60	5/8	ATB 10°	0.094	0.064	15°
K06012	Clamshell	5	12	305	60	1	ATB 10°	0.102	0.071	18°













### **MACHINES**











Blade diameter compatibility is contingent on machine type.

#### **APPLICATIONS**









ORDER NO.	PACKAGING	8	inches	mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α
K06007	Clamshell	10	7-1/4	184	60	5/8 🔷	ATB 10°	0.071	0.047	15°
K08010	Clamshell	10	10	254	80	5/8	ATB 10°	0.094	0.064	15°
K08012	Clamshell	5	12	305	80	1	ATB 10°	0.102	0.071	15°





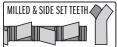












#### **MACHINES**





Blade diameter compatibility is contingent on machine type.







BULK PACK 10 PCS.

ORDER NO.	PACKAGING	8	inches	mm	Т	<b>B</b> inches	<b>K</b> inches	P inches	α
K14007-X10	Bulk Pack 10 pcs.	30	7-1/4	184	140	5/8 🗇	0.079	0.047	5°
K20010	Clamshell	10	10	254	200	5/8 🕸	0.094	0.071	5°

























	ORDER NO.	<b>D</b> inches	<b>D</b> mm	T	B inches	β	<b>K</b> inches	P inches	α	MATERIALS Application	PERFORMANCE	PAGE
228.186.2866   3-5/6   65	273.050.20D		50	20	10mm	ATB 10°	0.043	0.031	15°	WOOD	****	78
283.100.2086	273.080.36D		80	36	10mm	ATB 10°	0.064	0.039	15°	WOOD	****	78
28.10.20K	236.085.06G	3-3/8	85	6	15mm	TCG	0.071	0.055	12°	MULTI-MATERIALS	****	81
28.100.2008	289.100.20H		100	10+10	20mm	FLAT	2.8-3.6mm		12°	WOOD	****	32
28.100.2006	289.100.20K		100	10+10	22mm	FLAT	2.8-3.6mm		12°	WOOD	****	32
240,006,64   4   100   6   22mm	288.100.20H		100	20	22mm	CO + ATB 5°	3.1-4.0mm	2.5mm	5°	WOOD	****	33
241,008,04	288.100.20K		100	20	22mm	CO + ATB 5°	3.1-4.0mm	2.5mm	5°	WOOD	****	33
241.086.04   4   100   8   2mm   FLAI   0.156   0.122-0150   15"   WOOD   ****   48.	240.006.04	4	100	6	22mm	ATB 10°	0.156	0.118	18°	WOOD	****	48
286.115.01   4-1/2   115   24   3/8   MIB 10" +8" Sheer   0.059   0.033   20"   WOOD   *****   77	240.008.04	4	100	8	22mm	ATB 10°	0.156	0.118	15°	WOOD	****	48
272.115.24   4.1/2   115   24   3/8	241.008.04	4	100	8	22mm	FLAT	0.156	0.122-0.150	15°	WOOD	****	48
28.132.49	286.115.01	4-1/2			7/8 (+3/8+5/8)					MULTI-MATERIALS		83
283.120.24H	272.115.24	4-1/2	115	24	3/8	ATB 10° + 8° Shear	0.059	0.039	20°	WOOD	****	77
283120_24K	251.324.04	4-1/2	115	24	3/8	ATB 8°	0.070	0.047	20°	WOOD	****	51
288.120.24H	289.120.24H		120	12+12	20mm	FLAT	2.8-3.6mm		12°	WOOD	****	32
288.120.24K	289.120.24K		120	12+12	22mm	FLAT	2.8-3.6mm		12°	WOOD	****	32
288.126.24K	288.120.24H		120	24	20mm	CO + ATB 5°	3.1-4.0mm	2.5mm	5°	WOOD	****	33
288.125.24K	288.120.24K		120	24	22mm	CO + ATB 5°	3.1-4.0mm	2.5mm	5°	WOOD		33
288.125.24Q	288.125.24H		125	24	20mm	CO + ATB 5°	3.1-4.0mm	2.5mm	5°	WOOD	****	33
286.125.01   5	288.125.24K		125	24	22mm	CO + ATB 5°	3.1-4.0mm	2.5mm	5°	WOOD	****	33
286.125.01   5	288.125.240		125	24	45mm	CO + FLAT	4.3-5.5mm	3.2mm	10°	WOOD	****	33
226.030.05H   5-3/8	286.125.01	5			7/8 (+20mm+5/8)					MULTI-MATERIALS		83
28.150.60H   5-7/8	226.030.05	5-3/8		30	10mm	FWF 8°	0.059	0.047	0°	METAL & STEEL	****	39
28.150.60H   5-7/8	226.030.05H	5-3/8		30	20 (+10mm+1/2")	FWF 8°	0.059	0.047	0°	METAL & STEEL	****	39
288.150.36Q	226.150.60H	5-7/8		60		FWF 8°	0.064	0.047	0°	METAL & STEEL	****	38
230.520.06 6 152 20-20 5/8 ATB 20°+FLAT 1/4 > 29/32	288.150.36Q	,	150	36	45mm	CO + FLAT	4.3-5.5mm	3.2mm	10°	WOOD		33
291.160.24H	230.520.06	6	152	20+20	5/8	ATB 20° + FLAT	1/4 -> 29/32		-12°	WOOD		46
292.160.40H	236.160.04H		160	4	20mm	TCG	0.095	0.071	12°	MULTI-MATERIALS	****	81
285.760.48H         160         48         20mm         ATB 12°         0.087         0.064         5°         W00D         ******         20           281.760.48H         160         48         20mm         TCG         0.087         0.064         4°         W00D         *****         22           292.160.56H         160         56         20mm         ATB 15°         0.087         0.064         15°         W00D         *****         29           288.160.36Q         160         36         45mm         CO + FLAT         4.3-5.5mm         3.2mm         10°         W00D         *****         33           288.160.36O         160         36         55mm         CO + FLAT         4.3-5.5mm         3.2mm         10°         W00D         ******         33           286.760.24H         6-1/4         160         24         20mm         ATB 5°         0.090         0.047         5°         W00D & *****         53           226.030.06H         160         38         20mm         MTCG         0.087         0.064         0°         METAL & STEEL         *****         39           223.048.06H         160         56         20mm         TCG         0.087	291.160.24H		160	24	20mm	ATB 15°	0.087	0.064	15°	WOOD	****	17
281.760.48H         160         48         20mm         TCG         0.087         0.064         4°         W00D         *****         22           292.160.56H         160         56         20mm         AIB 15°         0.087         0.064         15°         W00D         *****         29           288.160.36Q         160         36         45mm         CO + FLAIT         4.3-5.5mm         3.2mm         10°         W00D         ******         33           288.160.36Q         160         36         55mm         CO + FLAIT         4.3-5.5mm         3.2mm         10°         W00D         ******         33           288.160.36Q         160         36         55mm         CO + FLAIT         4.3-5.5mm         3.2mm         10°         W00D         *******         33           286.760.24H         6-1/4         160         24         20mm         AIB 5°         0.090         0.047         5°         W00D & MAILS         *******         53           226.030.06H         160         48         20mm         MICG         0.087         0.064         0°         W00D         *******         41           296.160.56H         160         56         20mm (*16)	292.160.40H		160	40	20mm	ATB 15°	0.087	0.064	10°	WOOD	****	21
292.160.56H         160         56         20mm         ATB 15°         0.087         0.064         15°         W00D         *****         29           288.160.36Q         160         36         45mm         CO+FLAT         4.3-5.5mm         3.2mm         10°         W00D         *****         33           288.160.36Q         160         36         55mm         CO+FLAT         4.3-5.5mm         3.2mm         10°         W00D         *****         33           288.160.36Q         160         36         55mm         CO+FLAT         4.3-5.5mm         3.2mm         10°         W00D         *****         33           286.760.24H         6-1/4         160         24         20mm         AIB 5°         0.090         0.047         5°         W00D & MAILS         ******         53           226.030.06H         160         30         20mm         MTCG         0.087         0.064         0°         MODD         ******         41           296.160.56H         160         48         20mm         MTCG         0.087         0.064         -6°         W00D         ******         76           271.160.24H         160         24         20mm (+16)         ATB 10° +8°	285.760.48H		160	48	20mm	ATB 12°	0.087	0.064	5°	WOOD	****	20
288.160.36Q	281.760.48H		160	48	20mm	TCG	0.087	0.064	4°	WOOD	****	22
288.160.360         160         36         55mm         CO + FLAT         4.3-5.5mm         3.2mm         10°         W00D         ******         33           286.760.24H         6-1/4         160         24         20mm         ATB 5°         0.090         0.047         5°         W00D & NAILS         ******         53           226.030.06H         160         30         20mm         FWF 8°         0.079         0.064         0°         METAL & STEEL         *****         39           223.048.06H         160         48         20mm         MTCG         0.087         0.064         0°         W00D         *****         41           296.160.56H         160         56         20mm         TCG         0.087         0.064         -6°         W00D         *****         76           271.160.24H         160         24         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         W00D         *****         76           272.160.40H         160         48         20mm (+16)         TCG         0.071         0.047         16°         NON-FERROUS         *****         73           273.160.56H         160         56         20mm (+16)	292.160.56H		160	56	20mm	ATB 15°	0.087	0.064	15°	WOOD	****	29
286.760.24H         6-1/4         160         24         20mm         ATB 5°         0.090         0.047         5°         WOOD & NAILS         ******         53           226.030.06H         160         30         20mm         FWF 8°         0.079         0.064         0°         METAL & STEEL         *****         39           223.048.06H         160         48         20mm         MTCG         0.087         0.064         0°         WOOD         ******         41           296.160.56H         160         56         20mm         TCG         0.087         0.064         -6°         WOOD         *****         37           271.160.24H         160         24         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         18°         WOOD         *****         76           272.160.49H         160         40         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         WOOD         *****         77           276.160.48H         160         48         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         NON-FERROUS         *****         73           273.160.56H         160         56	288.160.36Q		160	36	45mm	CO + FLAT	4.3-5.5mm	3.2mm	10°	WOOD	****	33
226.030.06H         160         30         20mm         FWF 8°         0.079         0.064         0°         METAL & STEEL         ****         39           223.048.06H         160         48         20mm         MTCG         0.087         0.064         0°         W00D         ******         41           296.160.56H         160         56         20mm         TCG         0.087         0.064         -6°         W00D         *****         37           271.160.24H         160         24         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         18°         W00D         *****         76           272.160.40H         160         40         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         W00D         *****         77           276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         *****         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         W00D         *****         78           236.304.06         6-1/2         165         4         <	288.160.360		160	36	55mm	CO + FLAT	4.3-5.5mm	3.2mm	10°	WOOD	****	33
223.048.06H         160         48         20mm         MTCG         0.087         0.064         0°         WOOD         *****         41           296.160.56H         160         56         20mm         TCG         0.087         0.064         -6°         WOOD         *****         37           271.160.24H         160         24         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         18°         WOOD         *****         76           272.160.40H         160         40         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         WOOD         *****         77           276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         ******         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         WOOD         *****         78           236.304.06         6-1/2         165         4         5/8         ATB 10° + 8° Shear         0.071         0.047         10°         MULTI-MATERIALS         *****         52           236.004.06         6-1/2         1	286.760.24H	6-1/4	160	24	20mm	ATB 5°	0.090	0.047	5°	WOOD & NAILS	****	53
296.160.56H         160         56         20mm         TCG         0.087         0.064         -6°         WOOD         *****         37           271.160.24H         160         24         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         18°         WOOD         *****         76           272.160.40H         160         40         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         WOOD         *****         77           276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         *****         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         WOOD         *****         78           236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         ******         52           236.004.06         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         *****         12°         MULTI-MATERIALS         ***** <th>226.030.06H</th> <td></td> <td>160</td> <td>30</td> <td>20mm</td> <td>FWF 8°</td> <td>0.079</td> <td>0.064</td> <td>0°</td> <td>METAL &amp; STEEL</td> <td>****</td> <td>39</td>	226.030.06H		160	30	20mm	FWF 8°	0.079	0.064	0°	METAL & STEEL	****	39
271.160.24H         160         24         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         18°         W00D         ★★★★         76           272.160.40H         160         40         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         W00D         ★★★★         77           276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         ★★★★         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         W00D         ★★★★         78           236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         ★★★★         52           236.004.06         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           236.165.04H         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81	223.048.06H		160	48	20mm	MTCG	0.087	0.064	0°	WOOD	****	41
272.160.40H         160         40         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         16°         WOOD         ★★★★         77           276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         ★★★★         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         WOOD         ★★★★         78           236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         ★★★★         52           236.004.06         6-1/2         165         4         5/8         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           236.165.04H         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           P06018         6-1/2         165         18         5/8         ATB 10° + Shear         0.067         0.039         20°         WOOD         ★★★★         76	296.160.56H		160	56	20mm	TCG	0.087	0.064	-6°	WOOD	****	37
276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         ★★★         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         WOOD         ★★★★         78           236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         ★★★★         52           236.004.06         6-1/2         165         4         5/8         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           236.165.04H         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           P06018         6-1/2         165         18         5/8         ATB 10° + Shear         0.067         0.039         20°         WOOD         ★★★★         76           286.324.06.X10         6-1/2         165         24         5/8         ATB 15°         0.090         0.047         5°         WOOD & ★★★★         53	271.160.24H		160	24	20mm (+16)	ATB 10° + 8° Shear	0.071	0.047	18°	WOOD	****	76
276.160.48H         160         48         20mm (+16)         TCG         0.071         0.047         -6°         NON-FERROUS         ****         73           273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         WOOD         *****         78           236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         ******         52           236.004.06         6-1/2         165         4         5/8         TCG         0.071         0.055         12°         MULTI-MATERIALS         *****         81           236.165.04H         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         *****         81           P06018         6-1/2         165         18         5/8         ATB 10° + Shear         0.067         0.039         20°         WOOD         *****         76           286.324.06.X10         6-1/2         165         24         5/8         ATB 5°         0.090         0.047         5°         WOOD & ****         *****         53	272.160.40H		160	40	20mm (+16)	ATB 10° + 8° Shear	0.071	0.047	16°	WOOD		77
273.160.56H         160         56         20mm (+16)         ATB 10° + 8° Shear         0.071         0.047         12°         W00D         ★★★★         78           236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         ★★★★         52           236.004.06         6-1/2         165         4         5/8         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           236.165.04H         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         ★★★★         81           P06018         6-1/2         165         18         5/8         ATB 10° + Shear         0.067         0.039         20°         W00D         ★★★★         76           286.324.06-X10         6-1/2         165         24         5/8         ATB 5°         0.090         0.047         5°         W00D & NAILS         ★★★★★         53           K02406         6-1/2         165         24         5/8         ATB 12°         0.071         0.049         18°         W00D         ★★★★         53	276.160.48H		160	48	` '			0.047	-6°			73
236.304.06         6-1/2         165         4         5/8         ATB 10°         0.075         0.047         10°         MULTI-MATERIALS         *****         52           236.004.06         6-1/2         165         4         5/8         TCG         0.071         0.055         12°         MULTI-MATERIALS         *****         81           236.165.04H         6-1/2         165         4         20mm (+5/8)         TCG         0.071         0.055         12°         MULTI-MATERIALS         *****         81           P06018         6-1/2         165         18         5/8         ATB 10° + Shear         0.067         0.039         20°         WOOD         *****         76           286.324.06-X10         6-1/2         165         24         5/8         ATB 5°         0.090         0.047         5°         WOOD & NAILS         *****         53           K02406         6-1/2         165         24         5/8         ATB 12°         0.071         0.049         18°         WOOD         ****         86           291.165.24H         6-1/2         165         24         20mm         ATB 15°         0.087         0.064         15°         WOOD         *****         <	273.160.56H		160	56	20mm (+16)	ATB 10° + 8° Shear	0.071	0.047	12°	WOOD		78
236.004.06       6·1/2       165       4       5/8       TCG       0.071       0.055       12°       MULTI-MATERIALS       ★★★★       81         236.165.04H       6·1/2       165       4       20mm (+5/8)       TCG       0.071       0.055       12°       MULTI-MATERIALS       ★★★★       81         P06018       6·1/2       165       18       5/8       ATB 10° + Shear       0.067       0.039       20°       WOOD       ★★★★       76         286.324.06-X10       6·1/2       165       24       5/8       ATB 5°       0.090       0.047       5°       WOOD & NAILS       ★★★★★       53         K02406       6·1/2       165       24       5/8       ATB 12°       0.071       0.049       18°       WOOD       ★★       86         291.165.24H       6·1/2       165       24       20mm       ATB 15°       0.087       0.064       15°       WOOD       ★★★★       17	236.304.06	6-1/2	165	4	5/8	ATB 10°	0.075	0.047	10°			52
236.165.04H       6-1/2       165       4       20mm (+5/8)       TCG       0.071       0.055       12°       MULTI-MATERIALS       ★★★       81         P06018       6-1/2       165       18       5/8       ATB 10° + Shear       0.067       0.039       20°       WOOD       ★★★★       76         286.324.06.X10       6-1/2       165       24       5/8       ATB 5°       0.090       0.047       5°       WOOD & NAILS       ★★★★★       53         K02406       6-1/2       165       24       5/8       ATB 12°       0.071       0.049       18°       WOOD       ★★       86         291.165.24H       6-1/2       165       24       20mm       ATB 15°       0.087       0.064       15°       WOOD       ★★★★       17	236.004.06		165	4	· · ·	TCG	0.071	0.055	12°	MULTI-MATERIALS		81
P06018       6-1/2       165       18       5/8       ATB 10° + Shear       0.067       0.039       20°       W00D       ★★★★       76         286.324.06-X10       6-1/2       165       24       5/8       ATB 5°       0.090       0.047       5°       W00D & NAILS       ★★★★       53         K02406       6-1/2       165       24       5/8       ATB 12°       0.071       0.049       18°       W00D       ★★       86         291.165.24H       6-1/2       165       24       20mm       ATB 15°       0.087       0.064       15°       W00D       ★★★★       17	236.165.04H		165	4	· · · · · · · · · · · · · · · · · · ·	TCG		0.055	12°			81
286.324.06-X10       6·1/2       165       24       5/8       ATB 5°       0.090       0.047       5°       WOOD & NAILS       ★★★★★       53         K02406       6·1/2       165       24       5/8       ATB 12°       0.071       0.049       18°       WOOD       ★★       86         291.165.24H       6·1/2       165       24       20mm       ATB 15°       0.087       0.064       15°       WOOD       ★★★★       17	P06018		165	18		ATB 10° + Shear	0.067	0.039	20°			76
K02406       6-1/2       165       24       5/8       ATB 12°       0.071       0.049       18°       WOOD       ★★       86         291.165.24H       6-1/2       165       24       20mm       ATB 15°       0.087       0.064       15°       WOOD       ★★★★       17		,			, , , , , , , , , , , , , , , , , , ,				5°			53
291.165.24H 6-1/2 165 24 20mm ATB 15° 0.087 0.064 15° W00D ★★★★ 17					· '				18°			86
					, , , , , , , , , , , , , , , , , , ,							
		,										
<b>271.165.24H</b> 6-1/2 165 24 20mm (+5/8) ATB 10° + 8° Shear 0.067 0.043 18° W00D ★★★ <b>76</b>												



ORDER NO.	D	D	T	В	β	K	Р		MATERIALS	PERFORMANCE	PAGE
UNDER NU.	inches	mm	'	inches	р	inches	inches	α	APPLICATION	PERFURIMANCE	PAGE
P06036	6-1/2	165	36	5/8	ATB 10° + Shear	0.067	0.039	20°	WOOD	****	77
К03606	6-1/2	165	36	5/8	ATB 10°	0.071	0.047	18°	WOOD	**	89
272.165.36H	6-1/2	165	36	20mm (+5/8)	ATB 10° + 8° Shear	0.067	0.043	20°	WOOD	****	77
251.340.06-X10	6-1/2	165	40	5/8	ATB 15°	0.070	0.047	10°	WOOD	****	51
292.165.40H	6-1/2	165	40	20mm	ATB 15°	0.087	0.064	10°	WOOD	****	21
251.348.06H	6-1/2	165	48	20mm (+5/8)	ATB 10°	0.070	0.047	10°	WOOD	****	51
292.165.56Н	6-1/2	165	56	20mm	ATB 15°	0.087	0.064	15°	WOOD	****	29
296.165.56H	6-1/2	165	56	20mm	TCG	0.087	0.064	-6°	WOOD	****	37
273.165.56H	6-1/2	165	56	20mm (+5/8)	ATB 15° + 8° Shear	0.064	0.039	12°	WOOD	****	78
276.165.56H	6-1/2	165	56	20mm (+5/8)	TCG	0.071	0.047	-6°	NON-FERROUS	****	73
P06060	6-1/2	165	60	5/8	ATB 10° + Shear	0.067	0.039	5°	WOOD	****	78
226.036.06	6-1/2		36	5/8	FWF 8°	0.064	0.047	0°	METAL & STEEL	****	39
226.048.06	6-1/2		48	5/8	FWF 8°	0.064	0.047	0°	METAL & STEEL	****	39
226.165.60H	6-1/2		60	20mm (+5/8)	FWF 8°	0.064	0.047	0°	METAL & STEEL	****	38
226.036.06H		165	36	20mm	FWF 8°	0.064	0.047	0°	METAL & STEEL	****	39
288.180.36Q		180	36	45mm	CO + FLAT	4.7-6.0mm	3.5mm	10°	WOOD	****	33
288.180.36Q2		180	36	45mm	CO + ATB 5°	4.3-5.5mm	3.2mm	8°	WOOD	****	33
226.047.07H	7		48	20mm	FWF 8°	0.079	0.064	0°	METAL & STEEL	****	39
226.069.07H	7		70	20mm	FWF 8°	0.071	0.055	0°	METAL & STEEL	****	38
236.004.07	7-1/4	184	4	5/8	TCG	0.071	0.055	12°	MULTI-MATERIALS	****	81
236.304.07	7-1/4	184	4	5/8	ATB 10°	0.075	0.047	10°	MULTI-MATERIALS	****	52
P07010	7-1/4	184	10	5/8	TCG	0.071	0.055	12°	MULTI-MATERIALS	****	80
250.324.07	7-1/4	184	24	5/8	ATB 5°	0.070	0.047	15°	WOOD	****	50
250.324.07W-X10	7-1/4	184	24	5/8	ATB 5°	0.070	0.047	15°	WOOD	****	50
286.324.07	7-1/4	184	24	5/8	ATB 5°	0.090	0.047	5°	WOOD & NAILS	****	53
P07024	7-1/4	184	24	5/8	ATB 10° + Shear	0.067	0.039	20°	WOOD	****	76
K02407	7-1/4	184	24	5/8	ATB 10°	0.071	0.047	20°	WOOD	**	86
257.036.07	7-1/4	184	36	5/8	MATB	0.067	0.047	5°	WOOD & METAL	****	54
251.340.07	7-1/4	184	40	5/8	ATB 10°	0.070	0.047	15°	WOOD	****	51
P07040	7-1/4	184	40	5/8	ATB 10° + Shear	0.067	0.039	18°	WOOD	****	77
K04007	7-1/4	184	40	5/8	ATB 10°	0.071	0.047	12°	WOOD	**	89
226.348.07	7-1/4	184	48	5/8	FWF 8°	0.082	0.064	0°	METAL & STEEL	****	55
226.548.07	7-1/4	184	48	5/8	TCG	0.079	0.064	0°	METAL & STEEL	****	40
254.056.07	7-1/4	184	60	5/8	TCG	0.098	0.064	-6°	NON-FERROUS	****	72
P07056N	7-1/4	184	60	5/8	TCG	0.098	0.064	-6°	NON-FERROUS	****	73
P07060	7-1/4	184	60	5/8	ATB 10° + Shear	0.067	0.039	5°	WOOD	****	78
K06007	7-1/4	184	60	5/8	ATB 10°	0.071	0.047	15°	WOOD	**	90
P07120-X10	7-1/4	184	120	5/8		0.071	0.047	5°	MULTI-MATERIALS	***	82
P07140-X10	7-1/4	184	140	5/8		0.071	0.064	5°	WOOD	****	79
K14007-X10	7-1/4	184	140	5/8		0.071	0.047	5°	WOOD	**	91
226.036.07	7-1/4	101	36	5/8	FWF 8°	0.079	0.064	0°	METAL & STEEL	****	39
226.048.07	7-1/4		48	5/8	FWF 8°	0.079	0.064	0°	METAL & STEEL	****	39
226.070.07	7-1/4		70	5/8	FWF 8°	0.073	0.055	0°	METAL & STEEL	****	38
236.190.04M	1 1/7	190	4	30mm	TCG	0.071	0.033	12°	MULTI-MATERIALS	****	81
285.790.48FF		190	48	20mm (FESTOOL® FF)	ATB 15°	0.095	0.071	8°	WOOD	****	20
288.200.36H		200	36	20mm	CO + FLAT	4.4-5.3mm	3.2mm	10°	WOOD	****	33
288.200.36Q		200	36	45mm	CO + FLAT	4.4-5.5mm	3.5mm	10°	WOOD	****	33
288.200.36J		200	36	65mm	CO + FLAT	4.7-0.0mm 4.3-5.5mm	3.2mm	10°	WOOD		33
210.060.08	8 - 8-1/4	200	60	5/8	Hi-ATB 38°	0.126	0.087	2°		****	29
	8 - 8-1/4						0.001	-12°	WOOD	****	-
230.012.08		203	12+12	5/8	ATB 20° + FLAT	1/4 -> 13/16		-	WOOD	****	44
230.312.08	8	203	12+12	5/8	ATB 20° + FLAT	15/64" -> 13/16"		-12°	WOOD	****	45

























201224.08   8   203   24-24   5/8   11.41   11.41   3/84   3/87   11.22   12.24   10.00   14.44   12.87   12.24   12	ORDER NO.	<b>D</b> inches	<b>D</b> mm	T	B inches	β	K inches	P inches	α	MATERIALS Application	PERFORMANCE	PAGE
200.524.08   S   200   24-24   5/8   MB 20" +124   4/4 > 29/22   12"   12"   1000   \$****   48	230.224.08			24+24		FLAT		monos	0°		****	43
280.218   280   5.74   210	230.324.08	8	203	24+24	5/8	ATB 20° + FLAT	15/64" -> 13/16"		-12°	WOOD	****	47
281_210_3688	230.524.08	8	203	24+24	5/8	ATB 20° + FLAT	1/4 -> 29/32		-12°	WOOD	****	46
222-10-4889   8-1/4   210	290.210.24M	8-1/4	210	24	30mm	ATB 10°	0.110	0.071	20°	WOOD	****	17
226.048.0810   6-1/4   210   48   30mm (r1+5/8)	291.210.36M	8-1/4	210	36	30mm	ATB 15°	0.110	0.071	15°	WOOD	****	17
22210.64M   8-31/4   210   64   30mm   AlB 15°   0.110   0.031   15°   WOOD   ****   29 2826.04.80   8-31/4   210   64   30mm   100   0.110   0.087   4°   WOOD   ****   37 2826.04.80   8-31/4   210   24   5/8   AB 15°   0.082   0.047   20°   WOOD   ****   59 P08024   8-8-1/4   210   24   5/8   AB 15°   0.082   0.047   20°   WOOD   ****   78 P08024   8-8-1/4   210   24   5/8   AB 15°   0.082   0.047   20°   WOOD   ****   78 P08024   8-8-1/4   210   24   5/8   AB 10°   0.011   0.047   20°   WOOD   ****   78 225.04.08.8   8-1/4   210   40   5/8   AB 10°   0.011   0.047   20°   WOOD   ****   65 225.04.08.8   8-1/4   210   40   5/8   AB 15°   0.084   0.084   10°   WOOD   ****   65 P08024   8-8-1/4   210   40   5/8   AB 15°   0.094   0.084   10°   WOOD   ****   65 P08028   8-8-1/4   210   40   5/8   AB 15°   0.094   0.084   10°   WOOD   ****   65 P08028   8-8-1/4   210   40   5/8   AB 15°   0.094   0.084   10°   WOOD   ****   78 NAVAGES   8-8-1/4   210   40   5/8   AB 15°   0.094   0.084   10°   WOOD   ****   78 NAVAGES   8-8-1/4   210   40   5/8   AB 15°   0.097   0.011   0.047   22°   WOOD   ***   89 225.048.8   8-8-1/4   210   40   5/8   AB 15°   0.097   0.011   0.047   22°   WOOD   ***   89 225.048.8   8-8-1/4   210   40   5/8   AB 15°   0.095   0.071   0.047   22°   WOOD   ***   89 225.048.8   8-8-1/4   210   40   5/8   AB 15°   0.095   0.071   0.047   22°   WOOD   ***   89 225.048.8   8-8-1/4   210   40   5/8   AB 15°   0.095   0.071   0.047   22°   WOOD   ***   89 225.048.8   8-8-1/4   210   5/8   AB 15°   0.095   0.071   0.047   22°   WOOD   ***   89 225.048.8   8-8-1/4   210   5/8   AB 15°   0.095	292.210.48M	8-1/4	210	48	30mm	ATB 15°	0.110	0.071	15°	WOOD	****	21
256,210,6448   8-1/4   210   64   30mm   TGC   0.110   0.087   -67   W000   **** \$3	226.048.08M	8-1/4		48	30mm (+1+5/8)	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	39
250.024.08	292.210.64M		210	64	30mm	ATB 15°	0.110	0.071	15°	WOOD	****	29
P98824   8-8-1/4   210   24   5/8   AIB 15"   0.082   0.047   20"   W000	296.210.64M	8-1/4	210	64	30mm	TCG	0.110	0.087	-6°	WOOD	****	37
P08024   8.81/4   210   24   5/8   Alb 15" + Shear   0.067   0.039   20"   1000   *** * 75	250.024.08	8 - 8-1/4	210	24	5/8	ATB 15°	0.082	0.047	20°	WOOD	****	58
No.2468	P08024	8 - 8-1/4	210	24	5/8	ATB 15°	0.082	0.047	20°	WOOD	****	59
251.040.08   8 - 8-1/4   210   40   5/8   AlB 15°   0.094   0.064   10°   W000   *****   64	P08024	8 - 8-1/4	210	24	5/8	ATB 15° + Shear	0.067	0.039	20°	WOOD	****	76
P88940   8-8-1/4   210   40   5/8   MB 15"   0.094   0.064   10"   W000   ★★★★   65	K02408	8 - 8-1/4	210	24	5/8	ATB 10°	0.071	0.047	20°	WOOD	**	86
P08940   8-8-1/4   210   40   5/8	251.040.08	8 - 8-1/4	210	40	5/8	ATB 15°	0.094	0.064	10°	WOOD	****	64
NAMINOBED   8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8	P08040	8 - 8-1/4	210	40	5/8	ATB 15°	0.094	0.064	10°	WOOD	****	65
282-048.08   8-8-1/4   148   5/8   PWF 8"   0.087   0.071   0"   METAL & SIEL   ****   39   282-210.2M   210   12   30mm   1G6   0.095   0.071   12"   MULT-MATERIALS   ****   81   282-215.42T   215   42   50mm   C0 * FLAI   4.3.55mm   3.2mm   8"   W000   *****   33   282-283.616.0M   216   60   30mm   MB15 5"   0.0990   0.064   6"   W000   *****   37   225.580.08   8-1/2   216   60   5/8   4H-MIB 30"+1 10G   0.118   0.100   5"   W000   *****   37   283.080.08   8-1/2   216   60   5/8   MB15 5"   0.0994   0.055   7"   W000   *****   68   283.080.08   8-1/2   216   60   5/8   MB15 5"   0.0994   0.055   7"   W000   *****   68   283.080.08   8-1/2   216   60   5/8   MB15 5"   0.0994   0.055   7"   W000   *****   69   283.080.08   8-1/2   216   60   5/8   MB15 5"   0.0994   0.055   7"   W000   *****   69   283.080.08   8-1/2   216   60   5/8   MB15 5"   0.0994   0.055   7"   W000   *****   69   283.080.09   8-1/2   216   60   6/8   MB15 5"   0.0994   0.055   7"   W000   *****   29   283.080.09M   216   80   30mm   AB15 5"   0.110   0.071   5"   W000   *****   29   283.080.09M   220   64   30mm   AB15 5"   0.110   0.071   15"   W000   ****   29   283.084.09M   230   64   30mm   AB15 5"   0.110   0.071   15"   W000   ****   29   283.084.10M   250   24   30mm   AB15 0"   0.126   0.087   10"   W000   ****   12   283.884.10M   250   24   30mm   AB15 0"   0.126   0.087   10"   W000   ****   12   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   250   80   30mm   AB15 0"   0.126   0.087   5"   W000   ****   30,34   283.880.10M   259   80   30mm   AB15 0"	P08040	8 - 8-1/4	210	40	5/8	ATB 15°	0.094	0.064	10°	WOOD	****	77
236,210,12M	K04008	8 - 8-1/4	210	40	5/8	ATB 10°	0.071	0.047	20°	WOOD	**	89
288.215.42T	226.048.08	8 - 8-1/4		48	5/8	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	39
285.815.60M	236.210.12M		210	12	30mm	TCG	0.095	0.071	12°	MULTI-MATERIALS	****	81
219.060.08	288.215.42T		215	42	50mm	CO + FLAT	4.3-5.5mm	3.2mm	8°	WOOD	****	33
225.00.08 8-1/2 216 60 5/8 TCG 0.122 0.088 -7" W000 ★★★★ 37 253.060.08 8-1/2 216 60 5/8 AIB 15" 0.094 0.055 7" W000 ★★★★ 66 P08060S 8-1/2 216 60 5/8 AIB 15" 0.094 0.055 7" W000 ★★★★ 66 292.16.80N 216 80 30mm AIB 15" 0.110 0.071 5" W000 ★★★★ 27 292.16.80N 220 64 30mm AIB 15" 0.110 0.071 15" W000 ★★★★ 28 292.23.04N 220 64 30mm AIB 15" 0.110 0.071 15" W000 ★★★★ 29 226.046.09 9 46 1 FNF8° 0.079 0.064 0" METAL STEEL ★★★ 39 286.524.10N 250 24 30mm AIB 10" 0.126 0.087 10" W000 ★★★★ 16 285.690.10N 250 40 30mm AIB 15" 0.126 0.087 10" W000 ★★★★ 28 282.880.10N 250 60 30mm AIB 10" 0.126 0.087 110" W000 ★★★★ 28 282.880.10N 250 80 30mm AIB 15" 0.126 0.087 110" W000 ★★★★ 28 282.880.10N 250 80 30mm TCG 0.126 0.087 10" W000 ★★★★ 28 282.880.10N 250 80 30mm TCG 0.126 0.087 5" W000 ★★★★ 30,34 281.681.10N 250 80 30mm TCG 0.126 0.087 5" W000 ★★★★ 38 281.681.10N 250 80 30mm TCG 0.126 0.087 3" W000 ★★★★ 31 282.630.10 10 254 6 5/8 AIB 10" 0.087 0.064 12" MULTI-MATERIALS ★★★ 31 282.630.10 10 254 6 5/8 AIB 10" 0.087 0.064 12" MULTI-MATERIALS ★★★ 31 282.630.10 10 254 56 5/8 AIB 10" 0.087 0.064 12" MULTI-MATERIALS ★★★★ 31 283.630.10 10 254 24 5/8 AIB 10" 0.087 0.064 12" MULTI-MATERIALS ★★★★ 31 283.630.10 10 254 24 5/8 AIB 10" 0.087 0.064 12" MULTI-MATERIALS ★★★★ 31 283.630.10 10 254 24 5/8 AIB 10" 0.087 0.064 12" MULTI-MATERIALS ★★★★ 31 283.630.10 10 254 24 5/8 AIB 10" 0.094 0.064 22" W000 ★★★★★ 52 283.630.10 10 254 24 5/8 AIB 10" 0.097 0.064 12" MULTI-MATERIALS ★★★★ 52 283.630.10 10 254 24 5/8 AIB 10" 0.097 0.064 12" MULTI-MATERIALS ★★★★ 52 283.630.10 10 254 24 5/8 AIB 10" 0.096 0.087 0.064 12" MULTI-MATERIALS ★★★★ 31 280.636.10 10 254 24 5/8 AIB 10" 0.097 0.064 12" MULTI-MATERIALS ★★★★ 52 283.630.10 10 254 24 5/8 AIB 10" 0.096 0.087 0.064 12" MULTI-MATERIALS ★★★★ 52 283.630.10 10 254 24 5/8 AIB 10" 0.096 0.087 0.064 12" MULTI-MATERIALS ★★★★ 52 283.630.10 10 254 24 5/8 AIB 10" 0.096 0.087 0.064 12" MULTI-MATERIALS ★★★★ 51 290.024 10 0.254 24 5/8 AIB 10" 0.096 0.087 12" W000 ★★★★★ 51 290.0254 24 5/8 AIB 10" 0.096 0.087 12" W000 ★★★★★ 16 2	285.816.60M		216	60	30mm	ATB 15°	0.090	0.064	-5°	WOOD	****	20
253.060.08	219.060.08	8-1/2	216	60	5/8	4 Hi-ATB 30°+ 1 TCG	0.118	0.100	-5°	WOOD	****	27
P88860S         8·1/2         216         60         5/8         AIB 15°         0.094         0.055         7°         WOOD         ★★★★         67           292.216.80M         216         80         30mm         AIB 15°         0.110         0.071         5°         WOOD         ★★★★         23           283.3064.09M         220         64         30mm         H-HAB 40°         0.126         0.087         -5°         WOOD         ★★★★         28           292.20.64M         230         64         30mm         AIB 15°         0.110         0.071         15°         WOOD         ★★★★         29           226.946.09         9         46         1         PWF8°         0.079         0.064         0°         METAL & STELL         ★★★★         33           285.26.010         9         7/8         30mm         FLAT         0.126         0.087         10°         WOOD         ★★★★         12           285.640.10M         250         24         30mm         AIB 10°         0.126         0.087         10°         WOOD         ★★★★         16           285.640.10M         250         60         30mm         AIB 10°         0.126	225.060.08	8-1/2	216	60	5/8	TCG	0.122	0.098	-7°	WOOD	****	37
292.216.80M	253.060.08	8-1/2	216	60	5/8	ATB 15°	0.094	0.055	7°	WOOD	****	66
283.064.09M   220   64   30mm	P08060S	8-1/2	216	60	5/8	ATB 15°	0.094	0.055	7°	WOOD	****	67
292.230.64M   230   64   30mm   AIB 15°   0.110   0.071   15°   W000   ****   29	292.216.80M		216	80	30mm	ATB 15°	0.110	0.071	-5°	WOOD	****	29
226.046.09         9         46         1         PWF 8°         0.079         0.064         0°         METAL & STELL         ★★★★         39           286.230.01         9         -         7/8         -         -         MULTI-MATERIALS         83           285.624.10M         250         24         30mm         FLAT         0.126         0.087         10°         W00D         ★★★★★         12           285.640.10M         250         40         30mm         AIB 10°         0.126         0.087         15°         W00D         ★★★★★         16           283.680.10M         250         60         30mm         HI-AIB 38°         0.126         0.087         10°         W00D         ★★★★★         20           283.680.10M         250         80         30mm         TCG         0.126         0.087         2°         W00D         ★★★★★         22           281.680.10M         250         80         30mm         TCG         0.126         0.087         5°         W00D         ★★★★★         31           286.060.10         10         254         6         5/8         TCG         0.126         0.087         0.064         12°         W00D <th>283.064.09M</th> <th></th> <th>220</th> <th>64</th> <th>30mm</th> <th>Hi-ATB 40°</th> <th>0.126</th> <th>0.087</th> <th>-5°</th> <th>WOOD</th> <th>****</th> <th>28</th>	283.064.09M		220	64	30mm	Hi-ATB 40°	0.126	0.087	-5°	WOOD	****	28
286.230.01   9	292.230.64M		230	64	30mm	ATB 15°	0.110	0.071	15°	WOOD	****	29
285.624.10M	226.046.09	9		46	1	FWF 8°	0.079	0.064	0°	METAL & STEEL	****	39
285.640.10M         250         40         30mm         ATB 10°         0.126         0.087         15°         WOOD         ******         16           285.660.10M         250         60         30mm         ATB 15°         0.126         0.087         10°         WOOD         ******         26           283.680.10M         250         80         30mm         TCG         0.126         0.087         -2°         WOOD         ******         28           281.680.10M         250         80         30mm         TCG         0.126         0.087         5°         WOOD         ******         30,34           281.681.10M         250         80         30mm         TCG         0.126         0.087         -3°         WOOD         ******         31           236.06.10         10         254         6         5/8         TCG         0.087         0.064         12°         MULTI-MATERIALS         *****         81           236.06.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         MULTI-MATERIALS         ******         \$2           279.01.10         10         254         6         5/8	286.230.01	9			7/8					MULTI-MATERIALS		83
285.660.10M         250         60         30mm         ATB 15°         0.126         0.087         10°         WOOD         ******         20           283.680.10M         250         80         30mm         HI-ATB 38°         0.126         0.087         -2°         WOOD         ******         28           281.680.10M         250         80         30mm         TCG         0.126         0.087         5°         WOOD         ******         30,34           281.681.10M         250         80         30mm         TCG         0.126         0.087         -3°         WOOD         ******         31           236.06.10         10         254         6         5/8         TCG         0.087         0.064         12°         MULTI-MATERIALS         ******         81           236.06.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         MULTI-MATERIALS         ******         81           236.00.10         10         254         10°         23/8         FLAT         0.157         0.098         25°         WOOD         *******         52           279.01.10         10         254         24	285.624.10M		250	24	30mm	FLAT	0.126	0.087	10°	WOOD	****	12
283.680.10M         250         80         30mm         Hi-AIB 38°         0.126         0.087         -2°         W00D         ★★★★         28           281.680.10M         250         80         30mm         TCG         0.126         0.087         5°         W00D         ★★★★         30,34           281.681.10M         250         80         30mm         TCG         0.126         0.087         -3°         W00D         ★★★★         31           236.066.10         10         254         6         5/8         ATB 10°         0.087         0.064         12°         MULTI-MATERIALS         ★★★★         81           236.306.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         MULTI-MATERIALS         ★★★★         81           236.306.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         MULTI-MATERIALS         ★★★★         \$2           279.010.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         W00D         ★★★★★         15           201.020.10         10         254 <th>285.640.10M</th> <th></th> <th>250</th> <th>40</th> <th>30mm</th> <th>ATB 10°</th> <th>0.126</th> <th>0.087</th> <th>15°</th> <th>WOOD</th> <th>****</th> <th>16</th>	285.640.10M		250	40	30mm	ATB 10°	0.126	0.087	15°	WOOD	****	16
281.680.10M         250         80         30mm         TCG         0.126         0.087         5°         WOOD         ★★★★         30,34           281.681.10M         250         80         30mm         TCG         0.126         0.087         3°         WOOD         ★★★★         31           236.006.10         10         254         6         5/8         TCG         0.087         0.064         12°         MULTI-MATERIALS         ★★★★         81           236.306.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         MULTI-MATERIALS         ★★★★         52           279.010.10         10         254         10+4         2-3/8         FLAT         0.157         0.098         25°         WOOD         ★★★★★         15           201.024.10         10         254         24         5/8         MFLAT         0.126         0.087         20°         WOOD         ★★★★★         15           250.024.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         ★★★★★         18           285.624.10         10         254<	285.660.10M		250	60	30mm	ATB 15°	0.126	0.087	10°	WOOD	****	20
281.681.10M         250         80         30mm         TCG         0.126         0.087         -3°         WOOD         ******         31           236.006.10         10         254         6         5/8         TCG         0.087         0.064         12°         MULTI-MATERIALS         *****         81           236.306.10         10         254         6         5/8         ATB 10°         0.087         0.064         10°         MULTI-MATERIALS         *****         52           279.010.10         10         254         10+4         2-3/8         FLAT         0.157         0.098         25°         WOOD         ******         15           201.024.10         10         254         24         5/8         MFLAT         0.126         0.087         20°         WOOD         ******         13           250.024.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         *******         13           285.624.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         *******         12°           P10024	283.680.10M		250	80	30mm	Hi-ATB 38°	0.126	0.087	-2°	WOOD	****	28
236.006.10       10       254       6       5/8       TCG       0.087       0.064       12°       MULTI-MATERIALS       ★★★★       81         236.306.10       10       254       6       5/8       ATB 10°       0.087       0.064       10°       MULTI-MATERIALS       ★★★★       52         279.010.10       10       254       10+4       2-3/8       FLAT       0.157       0.098       25°       WOOD       ★★★★       15         201.024.10       10       254       24       5/8       MFLAT       0.126       0.087       20°       WOOD       ★★★★       13         250.024.10       10       254       24       5/8       ATB 10°       0.102       0.071       10°       WOOD       ★★★★       18         285.624.10       10       254       24       5/8       ATB 10°       0.102       0.071       10°       WOOD       ★★★★       12°         P10024       10       254       24       5/8       ATB 10°       0.102       0.071       10°       WOOD       ★★★★       59         K02410       10       254       24       5/8       ATB 10°       0.094       0.064       22°	281.680.10M		250	80	30mm	TCG	0.126	0.087	5°	WOOD	****	30, 34
236.306.10       10       254       6       5/8       ATB 10°       0.087       0.064       10°       MULTI-MATERIALS       ★★★★       52         279.010.10       10       254       10+4       2-3/8       FLAT       0.157       0.098       25°       WOOD       ★★★★       15         201.024.10       10       254       24       5/8       MFLAT       0.126       0.087       20°       WOOD       ★★★★       13         250.024.10       10       254       24       5/8       ATB 10°       0.102       0.071       10°       WOOD       ★★★★       58         285.624.10       10       254       24       5/8       FLAT       0.126       0.087       15°       WOOD       ★★★★       12         P10024       10       254       24       5/8       ATB 10°       0.102       0.071       10°       WOOD       ★★★★★       59         K02410       10       254       24       5/8       ATB 10°       0.094       0.064       22°       WOOD       ★★★★★       14         213.040.10       10       254       40       5/8       ATB 20°       0.126       0.087       12°       WOO	281.681.10M		250	80	30mm	TCG	0.126	0.087	-3°	WOOD	****	31
279.010.10         10         254         10+4         2-3/8         FLAT         0.157         0.098         25°         W00D         ******         15           201.024.10         10         254         24         5/8         MFLAT         0.126         0.087         20°         W00D         ******         13           250.024.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         W00D         *******         58           285.624.10         10         254         24         5/8         FLAT         0.126         0.087         15°         W00D         ********         58           285.624.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         W00D         *********         12           P10024         10         254         24         5/8         ATB 10°         0.094         0.064         22°         W00D         ********         87           203.630.10         10         254         24         5/8         ATB 10°         0.094         0.064         22°         W00D         *********         14           213.040.10<	236.006.10	10	254	6	5/8	TCG	0.087	0.064	12°	MULTI-MATERIALS	****	81
201.024.10         10         254         24         5/8         MFLAT         0.126         0.087         20°         WOOD         ******         13           250.024.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         ******         58           285.624.10         10         254         24         5/8         FLAT         0.126         0.087         15°         WOOD         *******         12           P10024         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         *******         12           R02410         10         254         24         5/8         ATB 10°         0.094         0.064         22°         WOOD         ******         87           203.630.10         10         254         30         5/8         TCG         0.126         0.087         12°         WOOD         ********         14           213.040.10         10         254         40         5/8         ATB 10°         0.126         0.100         18°         WOOD         **********         17           251.042.10	236.306.10	10	254	6	5/8	ATB 10°	0.087	0.064	10°	MULTI-MATERIALS	****	52
250.024.10         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         ★★★★         58           285.624.10         10         254         24         5/8         FLAT         0.126         0.087         15°         WOOD         ★★★★★         12           P10024         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         ★★★★★         59           K02410         10         254         24         5/8         ATB 10°         0.094         0.064         22°         WOOD         ★★★★         14           203.630.10         10         254         30         5/8         TCG         0.126         0.087         12°         WOOD         ★★★★★         14           213.040.10         10         254         40         5/8         ATB 20°         0.126         0.100         18°         WOOD         ★★★★★         17           251.042.10         10         254         40         5/8         ATB 15°         0.110         0.071         15°         WOOD         ★★★★★         60           285.640.10         10	279.010.10	10	254	10+4	2-3/8	FLAT	0.157	0.098	25°	WOOD	****	15
285.624.10         10         254         24         5/8         FLAT         0.126         0.087         15°         WOOD         ★★★★         12           P10024         10         254         24         5/8         ATB 10°         0.102         0.071         10°         WOOD         ★★★★         59           K02410         10         254         24         5/8         ATB 10°         0.094         0.064         22°         WOOD         ★★         87           203.630.10         10         254         30         5/8         TCG         0.126         0.087         12°         WOOD         ★★★★         14           213.040.10         10         254         40         5/8         ATB 20°         0.126         0.100         18°         WOOD         ★★★★★         17           251.042.10         10         254         40         5/8         ATB 15°         0.110         0.071         15°         WOOD         ★★★★★         60           285.640.10         10         254         40         5/8         Hi-ATB 30°         0.126         0.087         12°         WOOD         ★★★★★         16           P10042         10	201.024.10	10	254	24	5/8	MFLAT	0.126	0.087	20°	WOOD	****	13
P10024         10         254         24         5/8         ATB 10°         0.102         0.071         10°         W00D         ★★★★         59           K02410         10         254         24         5/8         ATB 10°         0.094         0.064         22°         W00D         ★★         87           203.630.10         10         254         30         5/8         TCG         0.126         0.087         12°         W00D         ★★★★         14           213.040.10         10         254         40         5/8         ATB 20°         0.126         0.100         18°         W00D         ★★★★★         17           251.042.10         10         254         40         5/8         ATB 15°         0.110         0.071         15°         W00D         ★★★★★         60           285.640.10         10         254         40         5/8         Hi-ATB 30°         0.126         0.087         12°         W00D         ★★★★★         16           P10042         10         254         40         5/8         ATB 15°         0.110         0.071         15°         W00D         ★★★★★         61           K04010         10	250.024.10	10	254	24	5/8	ATB 10°	0.102	0.071	10°	WOOD	****	58
K02410         10         254         24         5/8         ATB 10°         0.094         0.064         22°         W00D         **         87           203.630.10         10         254         30         5/8         TCG         0.126         0.087         12°         W00D         *******         14           213.040.10         10         254         40         5/8         ATB 20°         0.126         0.100         18°         W00D         *******         17           251.042.10         10         254         40         5/8         ATB 15°         0.110         0.071         15°         W00D         *******         60           285.640.10         10         254         40         5/8         Hi-ATB 30°         0.126         0.087         12°         W00D         *******         16           P10042         10         254         40         5/8         ATB 15°         0.110         0.071         15°         W00D         *******         61           K04010         10         254         40         5/8         ATB 10°         0.094         0.064         20°         W00D         *******         88	285.624.10	10	254	24	5/8	FLAT	0.126	0.087	15°	WOOD	****	12
203.630.10       10       254       30       5/8       TCG       0.126       0.087       12°       W00D       *******       14         213.040.10       10       254       40       5/8       ATB 20°       0.126       0.100       18°       W00D       ******       17         251.042.10       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       ******       60         285.640.10       10       254       40       5/8       Hi-ATB 30°       0.126       0.087       12°       W00D       ******       16         P10042       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       ******       61         K04010       10       254       40       5/8       ATB 10°       0.094       0.064       20°       W00D       ***       88	P10024	10	254	24	5/8	ATB 10°	0.102	0.071	10°	WOOD	****	59
213.040.10       10       254       40       5/8       ATB 20°       0.126       0.100       18°       W00D       *******       17         251.042.10       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       ******       60         285.640.10       10       254       40       5/8       Hi-ATB 30°       0.126       0.087       12°       W00D       ******       16         P10042       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       *****       61         K04010       10       254       40       5/8       ATB 10°       0.094       0.064       20°       W00D       **       88	K02410	10	254	24	5/8	ATB 10°	0.094	0.064	22°	WOOD	**	87
251.042.10       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       ★★★★       60         285.640.10       10       254       40       5/8       Hi-ATB 30°       0.126       0.087       12°       W00D       ★★★★       16         P10042       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       ★★★★       61         K04010       10       254       40       5/8       ATB 10°       0.094       0.064       20°       W00D       ★★       88	203.630.10	10	254	30	5/8	TCG	0.126	0.087	12°	WOOD	****	14
285.640.10       10       254       40       5/8       Hi-ATB 30°       0.126       0.087       12°       W00D       ★★★★       16         P10042       10       254       40       5/8       ATB 15°       0.110       0.071       15°       W00D       ★★★★       61         K04010       10       254       40       5/8       ATB 10°       0.094       0.064       20°       W00D       ★★       88	213.040.10	10	254	40	5/8	ATB 20°	0.126	0.100	18°	WOOD	****	17
P10042     10     254     40     5/8     ATB 15°     0.110     0.071     15°     W00D     ★★★★     61       K04010     10     254     40     5/8     ATB 10°     0.094     0.064     20°     W00D     ★★     88	251.042.10	10	254	40	5/8	ATB 15°	0.110	0.071	15°	WOOD	****	60
K04010         10         254         40         5/8         ATB 10°         0.094         0.064         20°         W00D         ★★         88	285.640.10	10	254	40	5/8	Hi-ATB 30°	0.126	0.087	12°	WOOD	****	16
	P10042	10	254	40	5/8	ATB 15°	0.110	0.071	15°	WOOD	****	61
<b>215.050.10</b> 10 254 50 5/8 4ATB 20°+1 TCG 0.126 0.087 12° W00D ★★★★ 19	K04010	10	254	40	5/8	ATB 10°	0.094	0.064	20°	WOOD	**	88
	215.050.10	10	254	50	5/8	4 ATB 20°+1 TCG	0.126	0.087	12°	WOOD	****	19



ORDER NO.	<b>D</b> inches	<b>D</b> mm	T	B inches	β	<b>K</b> inches	P inches	α	MATERIALS Application	PERFORMANCE	PAGE
285.650.10	10	254	50	5/8	4 ATB 20°+1 TCG	0.126	0.087	12°	WOOD	****	18
256.050.10	10	254	50	5/8	4 ATB 15°+ 1 FLAT	0.102	0.071	15°	WOOD	****	62
P10050	10	254	50	5/8	4 ATB 15°+ 1 FLAT	0.102	0.071	15°	WOOD	****	63
205.060.10	10	254	60	5/8	ATB 20°	0.102	0.071	5°	WOOD	****	21
221.060.10	10	254	60	5/8	TCG	0.126	0.087	10°	WOOD	****	23
252.060.10	10	254	60	5/8	ATB 20°	0.102	0.071	15°	WOOD	****	64
253.060.10	10	254	60	5/8	ATB 15°	0.102	0.071	7°	WOOD	****	66
281.660.10	10	254	60	5/8	TCG	0.126	0.087	10°	WOOD	****	22
285.660.10	10	254	60	5/8	ATB 20°	0.126	0.087	10°	WOOD	****	20
P10060	10	254	60	5/8	ATB 20°	0.102	0.071	15°	WOOD	****	65
P10060L	10	254	60	5/8	TCG	0.110	0.071	10°	WOOD	****	71
P10060S	10	254	60	5/8	ATB 15°	0.102	0.071	7°	WOOD	****	67
K06010	10	254	60	5/8	ATB 10°	0.094	0.064	15°	WOOD	**	89
223.672.10	10	254	72	5/8	MTCG	0.126	0.098	0°	WOOD	****	41
226.572.10	10	254	72	1 (+5/8)	FWF 10°	0.087	0.071	0°	METAL & STEEL	****	40
210.080.10	10	254	80	5/8	Hi-ATB 38°	0.126	0.087	2°	WOOD	****	29
219.080.10	10	254	80	5/8	4 Hi-ATB 30°+ 1 TCG	0.122	0.100	-5°	WOOD	****	27
222.080.10	10	254	80	5/8	MATB	0.110	0.087	-3°	MULTI-MATERIALS	****	42
225.672.10	10	254	80	5/8	TCG	0.126	0.098	-6°	WOOD	****	37
254.080.10	10	254	80	5/8	TCG	0.102	0.071	-6°	NON-FERROUS	****	72
255.080.10	10	254	80	5/8	Hi-ATB 30°	0.110	0.071	5°	WOOD	****	68
281.680.10	10	254	80	5/8	TCG	0.126	0.087	5°	WOOD	****	30
281.681.10	10	254	80	5/8	TCG	0.126	0.087	-3°	WOOD	****	31
283.680.10	10	254	80	5/8	Hi-ATB 38°	0.126	0.087	2°	WOOD	****	28
285.680.10	10	254	80	5/8	ATB 20°	0.118	0.098	10°	WOOD	****	25
P10080	10	254	80	5/8	Hi-ATB 30°	0.110	0.071	5°	WOOD	****	69
P10080N	10	254	80	5/8	TCG	0.102	0.071	-6°	NON-FERROUS	****	73
K08010	10	254	80	5/8	ATB 10°	0.094	0.064	15°	WOOD	**	90
255.090.10X	10	254	90	5/8	Hi-ATB 30° + Shear	0.087	0.064	10°	WOOD	****	70
284.700.10	10	254	96	5/8	TCG	0.126	0.098	6°	NON-FERROUS	****	36
K20010	10	254	200	5/8		0.094	0.071	5°	WOOD	**	91
298.250.20	10		20	1 (+20mm)	ATB 8°	0.079	0.055	2°	MULTI-MATERIALS	****	84
298.250.40	10		40	1 (+20mm)	ATB 8°	0.079	0.055	2°	MULTI-MATERIALS	****	84
226.048.10	10		48	1 (+5/8)	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	39
226.060.10	10		60	1 (+5/8)	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	38
294.060.11M		260	60	30mm	ATB 15°	0.098	0.071	-5°	WOOD	****	21
294.080.11M		260	80	30mm	ATB 15°	0.098	0.071	-5°	WOOD	****	29
297.080.11M		260	80	30mm	TCG	0.126	0.098	-6°	WOOD	****	37
P10042W	10-1/4	260	32	5/8	ATB 10°	0.102	0.071	10°	WOOD	****	61
293.024.12M		300	24	30mm	ATB 10°	0.126	0.087	20°	WOOD	****	12
285.648.12M		300	48	30mm	ATB 10°	0.126	0.087	5°	WOOD	****	16
288.300.48T		300	48	50mm	CO + FLAT	4.3-5.5mm	3.2mm	10°	WOOD	****	33
282.060.12M		300	60	30mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.300.60M		300	60	30mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.300.60W		300	60	80mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
281.672.12M		300	72	30mm	TCG	0.126	0.087	10°	WOOD	****	22, 34
285.672.12M		300	72	30mm	ATB 15°	0.126	0.087	10°	WOOD	****	20
282.060.12W		300	80	30mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
281.696.12M		300	96	30mm	TCG	0.126	0.087	5°	WOOD	****	30
281.697.12M		300	96	30mm	TCG	0.126	0.087	-3°	WOOD	****	31
283.696.12M		300	96	30mm	Hi-ATB 38°	0.126	0.087	2°	WOOD	****	28





































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ORDER NO.	<b>D</b> inches	<b>D</b> mm	T	<b>B</b> inches	β	<b>K</b> inches	P inches	α	MATERIALS Application	PERFORMANCE	PAGE
285.696.12M		300	96	30mm	ATB 15°	0.126	0.087	5°	WOOD	****	25
236.008.12	12	305	8	1	TCG	0.087	0.064	12°	MULTI-MATERIALS	****	81
236.308.12	12	305	8	1	ATB 10°	0.087	0.064	10°	MULTI-MATERIALS	****	52
279.012.12	12	305	12+4	2-3/8	FLAT	0.157	0.098	25°	WOOD	****	15
286.024.12	12	305	24	1	TCG	0.126	0.098	-5°	WOOD	****	83
K02412	12	305	24	1	ATB 10°	0.102	0.071	22°	WOOD	**	87
201.030.12	12	305	30	1	MFLAT	0.126	0.087	20°	WOOD	****	13
203.636.12	12	305	36	1	TCG	0.126	0.087	12°	WOOD	****	14
203.036.12W2	12	305	36	3-1/8	TCG	0.160	0.110	20°	WOOD	****	14
K04012	12	305	40	1	ATB 10°	0.102	0.071	20°	WOOD	**	88
213.048.12	12	305	48	1	ATB 20°	0.126	0.100	10°	WOOD	****	17
251.045.12	12	305	48	1	ATB 15°	0.110	0.071	-10°	WOOD	****	60
P12042	12	305	48	1	ATB 15°	0.110	0.071	-10°	WOOD	****	61
215.060.12	12	305	60	1	4 ATB 20°+1 TCG	0.126	0.087	12°	WOOD	****	19
256.060.12	12	305	60	1	4 ATB 15°+ 1 FLAT	0.102	0.071	15°	WOOD	****	62
P12060	12	305	60	1	4 ATB 15°+ 1 FLAT	0.102	0.071	15°	WOOD	****	63
K06012	12	305	60	1	ATB 10°	0.102	0.071	18°	WOOD	**	89
205.072.12	12	305	72	1	ATB 15°	0.126	0.087	10°	WOOD	****	21
221.072.12	12	305	72	1	TCG	0.126	0.087	10°	WOOD	****	23
253.072.12	12	305	72	1	ATB 15°	0.102	0.071	7°	WOOD	****	66
285.672.12	12	305	72	1	ATB 20°	0.126	0.087	10°	WOOD	****	20
P12072L	12	305	72	1	TCG	0.118	0.087	10°	WOOD	****	71
P12072S	12	305	72	1	ATB 15°	0.102	0.071	7°	WOOD	****	67
226.580.12	12	305	80	1	FWF 10°	0.087	0.071	0°	METAL & STEEL	****	40
252.072.12	12	305	80	1	ATB 20°	0.118	0.087	15°	WOOD	****	64
285.680.12	12	305	80	1	ATB 15°	0.094	0.071	5°	WOOD	****	24
P12072	12	305	80	1	ATB 20°	0.118	0.087	15°	WOOD	****	65
K08012	12	305	80	1	ATB 10°	0.102	0.071	15°	WOOD	**	90
223.684.12	12	305	84	1	MTCG	0.126	0.098	0°	WOOD	****	41
274.691.12	12	305	90	5/8	4 ATB 20°+ 1 FLAT	0.118	0.098	-3°	WOOD	****	26
219.090.12	12	305	90	1	4 Hi-ATB 30°+ 1 TCG	0.122	0.100	-5°	WOOD	****	27
210.096.12	12	305	96	1	Hi-ATB 38°	0.126	0.087	2°	WOOD	****	29
222.096.12	12	305	96	1	MATB	0.110	0.087	-3°	MULTI-MATERIALS	****	42
225.696.12	12	305	96	1	TCG	0.126	0.098	-6°	WOOD	****	37
254.096.12	12	305	96	1	TCG	0.102	0.071	-6°	NON-FERROUS	****	72
255.096.12	12	305	96	1	Hi-ATB 30°	0.102	0.071	-5°	WOOD		68
281.696.12	12	305	96	1	TCG	0.102	0.071	5°	WOOD	*****	30
281.697.12	12	305	96	1	TCG	0.126	0.087	-3°			31
283.696.12	12	305	96	1	Hi-ATB 38°	0.126	0.087	2°	WOOD WOOD	****	28
285.696.12		305	96	1	ATB 20°		0.087	10°	WOOD	****	-
	12					0.118			WOOD	****	25
P12096	12	305	96	1	Hi-ATB 30°	0.102	0.071	-5°	WOOD	****	69
P12096N	12	305	96	1	TCG	0.102	0.071	-6°	NON-FERROUS	****	73
P12100X	12	305	100	1 5.00	Hi-ATB 30° + Shear	0.098	0.071	7°	WOOD	****	71
225.709.12	12	305	108	5/8	TCG	0.126	0.098	-6°	WOOD	****	37
284.720.12	12	305	108	1	TCG	0.126	0.098	6°	NON-FERROUS	****	36
255.100.12X	12	305	100	1	Hi-ATB 30° + Shear	0.098	0.071	7°	WOOD	****	70
226.060.12	12		60	1	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	39
226.080.12	12		80	1	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	38
282.320.60J		320	60	65mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.320.72J		320	72	65mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
293.028.14M		350	28	30mm	ATB 10°	0.137	0.098	20°	WOOD	****	12



ORDER NO.	<b>D</b> inches	<b>D</b> mm	T	B inches	β	K inches	P inches	α	MATERIALS Application	PERFORMANCE	PAGE
285.654.14M		350	54	30mm	ATB 10°	0.137	0.098	5°	WOOD	****	16
282.350.72M		350	72	30mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.350.72U		350	72	60mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.072.14X		350	72	75mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.350.72X		350	72	75mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.350.72W		350	72	80mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
281.684.14M		350	84	30mm	TCG	0.137	0.098	10°	WOOD	****	22
281.708.14M		350	108	30mm	TCG	0.138	0.098	5°	WOOD	****	30, 34
283.108.14M		350	108	30mm	Hi-ATB 38°	0.137	0.098	5°	WOOD	****	28
285.708.14M		350	108	30mm	ATB 15°	0.137	0.098	5°	WOOD	****	25
286.024.14	14	355	24	1	TCG	0.137	0.110	-5°	WOOD	****	83
K06014	14	355	60	1	ATB 10°	0.118	0.087	15°	WOOD	**	88
282.072.14J2		355	72	65mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.355.72J		355	72	65mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.072.14W2		355	72	80mm	TCG	4.4mm	3.2mm	10°	WOOD	****	34
226.072.14	14		72	1	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	39
285.684.14	14	355	84	1	ATB 15°	0.137	0.098	10°	WOOD	****	20
226.090.14	14		90	1	FWF 8°	0.087	0.071	0°	METAL & STEEL	****	38
226.590.14	14	355	90	1	FWF 10°	0.087	0.071	0°	METAL & STEEL	****	40
253.096.14	14	355	96	1	ATB 15°	0.110	0.071	7°	WOOD	****	66
225.700.14	14	355	100	1	TCG	0.126	0.098	-6°	WOOD	****	37
225.720.14	14	355	120	1	TCG	0.142	0.118	-6°	WOOD	****	37
282.072.15U		380	72	60mm	TCG	4.8mm	3.5mm	16°	WOOD	****	34
282.072.15U2		380	72	60mm	TCG	4.4mm	3.2mm	15°	WOOD	****	34
282.380.72U		380	72	60mm	TCG	4.8mm	3.5mm	15°	WOOD	****	35
282.380.72U2		380	72	60mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.380.72W		380	72	80mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
285.660.16M		400	60	30mm	ATB 15°	0.137	0.098	10°	WOOD	****	16
282.072.16M		400	72	30mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.400.72M		400	72	30mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.072.16U		400	72	60mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.072.16X		400	72	75mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.400.72X		400	72	75mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.072.16W		400	72	80mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.400.72W		400	72	80mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
285.696.16	16	406	96	1	ATB 15°	0.137	0.098	10°	WOOD	****	20
225.700.16	16	406	100	1	TCG	0.150	0.126	-6°	WOOD	****	37
282.430.72J		430	72	65mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.072.17X		430	72	75mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.072.17W2		430	72	80mm	TCG	4.4mm	3.2mm	16°	WOOD	****	34
282.450.72M		450	72	30mm	TCG	4.4mm	3.2mm	15°	WOOD	****	35
282.072.18U		450	72	60mm	TCG	4.8mm	3.5mm	16°	WOOD	****	34
282.450.72U		450	72	60mm	TCG	4.8mm	3.5mm	15°	WOOD	****	35
282.072.18W2		450	72	80mm	TCG	4.8mm	3.5mm	16°	WOOD	****	34
285.708.18	18	457	108	1	ATB 15°	0.150	0.110	10°	WOOD	****	20
225.728.18	18	457	128	1	TCG	0.150	0.126	-6°	WOOD	****	37
282.072.20U		500	72	60mm	TCG	4.8mm	3.5mm	16°	WOOD	****	34
282.520.60V		520	60	70mm	TCG	4.8mm	3.5mm	15°	WOOD	****	35











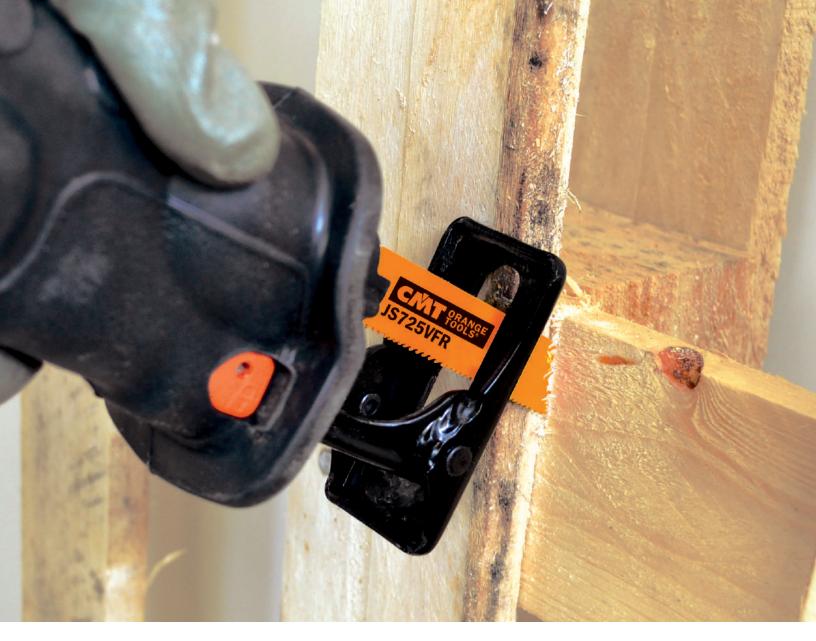








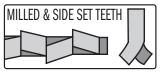




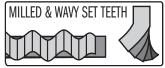
# **WHY TOOTH GEOMETRY IS IMPORTANT!**



Easily cut construction wood, plywood, framing lumber and plastic.



For quick cutting on hard/softwood, aluminum, plastic, ferrous and non-ferrous metal.



For fine, precise cuts in thin/thick metal, pipe, open and closed profiles.





## **BI-METAL WITH 8% COBALT**

Provides superb results and guarantees long life when cutting metals, plastic and wood with nails.



### **TUNGSTEN CARBIDE TIPPED**

Ideal for construction materials: fibercement board, brick and porous concrete.















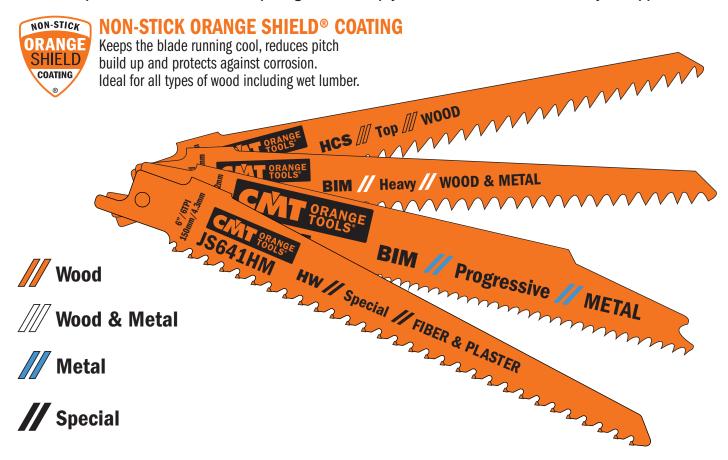


# **QUALITY MATERIALS FOR MAXIMUM PRODUCTIVITY**

Produced by following state-of-the-art processes, using high-tech machines and premium quality raw materials, these sabre saw blades have been specifically designed to ensure maximum lifetime and performance in all materials.

### THE RIGHT BLADE FOR THE JOB!

Use our quick reference chart and pictograms to help you choose the best blade for your application.



#### **BLADE LINE DESCRIPTIONS**

Different blade lines help you choose the right blade for the task.

**BASIC:** Cost effective

**FLEXIBLE:** Breakproof, long lifetime

**PROGRESSIVE:** Fast cutting through thin

and thick material

**TOP:** Fast and efficient

**HEAVY:** Sturdy and precise

## 12.7MM (1/2") UNIVERSAL SHANK

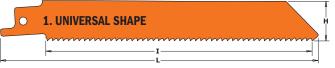
Fits: AEG®, BLACK & DECKER®, BOSCH®, DEWALT®, FEIN®, FLEX®, HILTI®, MAKITA®, METABO®, MILWAUKEE®, PORTER CABLE®, RIDGID®, ROTHENBERGER®, RYOBI®, SKIL®.



#### **BLADE SHAPE & THICKNESS**

Sabre Saw Blades vary in shape and thickness. These two characteristics are adjusted according to the demands of the application as well as the required flexibility. Rigorous applications such as cutting tube and pipe require thick robust blades, while less demanding applications require narrower blades.

**Three Main Blade Categories:** 



Universal blades are for general use. Their even width guarantees good cutting stability and excellent control. This enables straight edge cutting through many different materials.

# • 2. SLOPED SHAPE

Sloped blades are commonly used for cutting wood and for demolition applications. Their narrow tip allows for plunge and curve cutting. This shape is rarely used for metal, since the tip does not have the strength required for this application.



Scroll blades are especially used for curve cutting. The narrower the blade, the smaller the radius it can cut.



# Reciprocating Saw Blades Application Chart



SERIES	MATERIAL	MATERIAL THICKNESS	LINE	L Inches	FINE STRAIGHT	COARSE STRAIGHT	FINE CURVE	FINE ANGLE CUT	FLUSH CUT	THIN & THICK	DEMOLITION	TPI	PAGE
		inches			Fine Straight	Coarse Straight	Fine Curve	Accurate Angle Cut	Flush Cut	THICK	<b>BENGLI</b>		
	Coarse wood (free of nails)	<4	Basic	6		JS617K	JS617K					3	102
	Pruning green wood Coolant: dry	<7-1/2	Basic Top	9-1/2		JS1111K JS1531L						3 5	102 102
	MAX RPM 2500	<10	Basic	12		JS1617K						3	102
	Construction wood	<4	Тор	6	JS644D		JS644D					6	102
	Coolant: dry MAX RPM 2500	<6 <6	Progressive	8	JS2345X JS725VFR			ICZOEVED		JS2345X	IC70EVED	6~10 8~12	102 104
WOOD	Boards	<2-3/8	Pallet Top	6	JS644D		JS644D	JS725VFR		JS725VFR	JS725VFR	6	104
9	Coolant: dry	<2-3/8	Progressive	8	JS2345X					JS2345X		6~10	102
<b>&gt;</b>	MAX RPM 2500	<2-3/8	Pallet	8	JS725VFR		100445	JS725VFR		JS725VFR		8~12	104
	Wooden wall cutout	<4 <6	Top Progressive	6 8	JS644D JS2345X		JS644D			JS2345X		6 6~10	102 102
	Coolant: dry MAX RPM 2500	<6	Pallet	8	JS725VFR			JS725VFR		JS725VFR	JS725VFR	8~12	104
		<7-1/2	Тор	9-1/2		JS1531L						5	102
	Plastic Coolant: water MAX RPM 500	<4 <6	Top Progressive	6 8	JS644D JS2345X		JS644D			JS2345X		6 6~10	102 102
	Coolana water marki in coo	<4	Flexible	6	JS922HF					J32343A		10	105
		<4	Flexible	6	JS922VF							10~14	105
		<4	Heavy	6	JS641HM	JS611DF JS610VF	JS711DF	JS610VF			ICC4 OVE	6 5~8	103,109
		<4 <4	Heavy Heavy	6		JS610VF JS956XHM		JS956XHM			JS610VF JS956XHM	5~8 5~8	103 106
		<6	Progressive	8		JS3456XF				JS3456XF		6~12	104
	Wood with nails/metal	<6	Pallet	8	JS725VFR			JS725VFR		JS725VFR	JS725VFR	8~12	104
	Coolant: dry	<7 <7	Flexible Flexible	9	JS1122HF JS1122VF				JS1122HF JS1122HF			10 10~14	105 105
	MAX RPM 2500	<7	Heavy	9	JJ112211	JS1111DF			701122111			6	103
		<7	Heavy	9		JS1110VF		JS1110VF			JS1110VF	5~8	104
		<7 <7	Heavy	9		JS1156XHM JS5678XF		JS1156XHM		JS5678XF	JS1156XHM	5~8 6~12	106 104
		<10	Progressive Flexible	12	JS1222VF	JOOUTONE			JS1222VF	J22010VL		10~14	104
		<10	Heavy	12		JS1210VF		JS1210VF			JS1210VF	5~8	104
	B. II .	<10	Heavy	12	10000115	JS1411DF						6	103
	Pallet Coolant: dry	<4 <6	Flexible Pallet	6 8	JS922HF JS725VFR	JS641HM		JS725VFR		JS725VFR	JS725VFR	10 8~12	105,109 104
	MAX RPM 2500	<7	Flexible	9	JS1122HF			JOIZOVIK	JS1122HF	JOIZOTIK	JOIZOVIK	10	105
		<4	Heavy	6		JS611DF	JS711DF					6	103
		<4 <4	Heavy Heavy	6		JS610VF JS956XHM		JS610VF JS956XHM			JS610VF JS956XHM	5~8 5~8	103 106
METAL		<6	Progressive	8		JS3456XF		JOSOVIIM		JS3456XF	JOSOVIIM	6~12	104
	Wood, chipboard	<6	Pallet	8	JS725VFR			JS725VFR		JS725VFR	JS725VFR	8~12	104
જ	Coolant: dry MAX RPM 2500	<7 <7	Heavy	9		JS1111DF JS1110VF		JS1110VF			JS1110VF	6 5~8	103
	IWAA KEW 2500	<7	Heavy Heavy	9		JS1110VF JS1156XHM		JS1110VF JS1156XHM			JS1110VF JS1156XHM	5~8	105 106
WOOD		<7	Progressive	9		JS5678XF		502200		JS5678XF	502200711111	6~12	104
_		<10	Heavy	12		JS1210VF		JS1210VF			JS1210VF	5~8	104
		<10 1/8~3/8	Heavy Flexible	12 6	JS922VF	JS1411DF						6 10~14	103 105
	Sheet metals	1/8~3/8	Flexible	9	JS1122VF				JS1122HF			10~14	105
	Coolant: cutting oil	1/8~3/8	Flexible	12	JS1222VF				JS1222VF			10~14	105
	MAX RPM 500~2000	1/8~23/32	Progressive Progressive	8		JS3456XF JS5678XF				JS3456XF JS5678XF		6~12 6~12	104 104
		<4	Flexible	6	JS922VF	J33010AF				JOSUTOAF		10~14	105
	Pipes, profiles	<6	Progressive	8		JS3456XF				JS3456XF		6~12	104
	Coolant: cutting oil MAX RPM 1500	<7	Flexible	9	JS1122VF	ICECZOVE			JS1122HF	ICECZOVE		10~14	105
	1000	<7 <10	Progressive Flexible	9 12	JS1222VF	JS5678XF			JS1222VF	JS5678XF		6~12 10~14	104 105
		<4	Heavy	6		JS611DF	JS711DF					6	103
	Plastic, pipes, profiles	<6	Progressive	8		JS3456XF				JS3456XF		6~12	104
	Coolant: water MAX RPM 500	<7 <7	Heavy Progressive	9		JS1111DF JS5678XF				JS5678XF		6 6~12	103 104
		<10	Heavy	12		JS1411DF				JOOGIOAI		6	103
	Glass fiber-reinforced	<2	Heavy	6		JS611DF	JS711DF					6	103
	plastic/epoxy Coolant: water	<2-3/8 <2-3/8	Heavy Heavy	12 6		JS1411DF JS610VF		JS610VF			JS610VF	6 5~8	103 103
	MAX RPM 500	<4	Heavy	6		JS956XHM		JS956XHM			JS956XHM	5~8	103
	1	· ·					·						

# Reciprocating Saw Blades Application Chart



SERIES	MATERIAL	MATERIAL THICKNESS	LINE	L INCHES	FINE STRAIGHT	COARSE STRAIGHT	FINE CURVE	FINE ANGLE CUT	FLUSH CUT	THIN &	DEMOLITION	TPI	PAGI
		inches			Fine Straight	Coarse Straight	Fine Curve	Accurate Angle Cut	Flush Cut	THICK THICK	<b>HARLES</b>		
7		<2-3/8	Heavy	9		JS1111DF JS1110VF		JS1110VF			JS1110VF	6 5~8	103 104
METAL		<2-3/8 <7	Heavy Heavy	9		JS1110VF		JS1110VF JS1156XHM			JS1110VF JS1156XHM	5~8	104
$\geq$	Glass fiber-reinforced plastic/epoxy	<4	Flexible	6	JS922VF	JS641HM					5022007	10~14	105,1
8	Coolant: water	<6	Progressive	8		JS3456XF				JS3456XF		6~12	104
8	MAX RPM 500	<7 <7	Flexible Progressive	9	JS1122VF	JS5678XF			JS1122HF	JS5678XF		10~14 6~12	10
WOOD		<10	Flexible	12	JS1222VF	J22010VL			JS1222VF	JOSOTOAF		10~14	10
>		<10	Heavy	12		JS1210VF		JS1210VF			JS1210VF	5~8	104
		1/32~1/8	Flexible	6	JS922AF							24	109
		1/32~1/8 3/64~5/16	Flexible Progressive	9	JS1122AF JS123XF				JS1122AF	JS123XF		24 8~14	10
		1/16~5/32	Flexible	6	JS922EF					JOZZONI		18	10
		1/16~5/32	Flexible	9	JS1122EF				JS1122EF			18	10
	Sheet, perforated metals,	5/64~3/8	Heavy	6	JS925VF						JS925VF	10~14	10
	(thin & thick)	5/64~3/8 5/64~3/8	Heavy Heavy	8	JS1025VF JS1125VF						JS1025VF JS1125VF	10~14 10~14	10 10
	Coolant: dry MAX RPM 500~2000	5/64~3/8	Heavy	12	JS1125VF						JS1225VF	10~14	107,
	WAX III W 300 2000	1/8~5/16	Flexible	6	JS922BF							14	10
		1/8~5/16	Flexible	9	JS1122BF	JS920CF		JS920CF	JS1122BF		ICOGOOF	14 9	100
		5/32~1/2 5/32~1/2	Heavy Heavy	6		JS955CHM		JS955CHM			JS920CF JS955CHM	9	10
		5/32~1/2	Heavy	9		JS1120CF		JS1120CF			JS1120CF	9	10
		5/32~1/2	Heavy	9		JS1155CHM		JS1155CHM			JS1155CHM	9	10
		<4 <4	Flexible Flexible	6	JS922AF JS922EF							24 18	10 10
		<4	Progressive	6	JS123XF					JS123XF		8~14	10
	Pipes, profiles, thin-walled (open & closed)	<4	Heavy	6	JS925VF						JS925VF	10~14	10
	Coolant: dry	<6	Heavy	8	JS1025VF						JS1025VF	10~14	10
METAL	MAX RPM 500~2000	<7 <7	Flexible Flexible	9	JS1122AF JS1122EF				JS1122AF JS1122EF			24 18	10 10
٣		<7	Heavy	9	JS1125VF				J31122LF		JS1125VF	10~14	10
		<10	Heavy	12	JS1225VF						JS1225VF	10~14	10
		<4	Flexible	6	JS922BF					10400VF		14	10
		<4 <4	Progressive Heavy	6	JS123XF JS925VF					JS123XF	JS925VF	8~14 10~14	10 10
		<4	Heavy	6	3002011	JS920CF		JS920CF			JS920CF	9	10
	Pipes, profiles, thick-walled (open & closed)	5/32~1/2	Heavy	6		JS955CHM						9	10
	Coolant: dry	<6	Heavy	8	JS1025VF				104400DF		JS1025VF	10~14	10
	MAX RPM 500~2000	<7 <7	Flexible Heavy	9	JS1122BF JS1125VF				JS1122BF		JS1125VF	14 10~14	10 10
		<7	Heavy	9	30222011	JS1120CF		JS1120CF			JS1120CF	9	10
		5/32~1/2	Heavy	9		JS1155CHM						9	10
		<10	Heavy Heavy	12 12	JS1225VF	JS1255CHM					JS1225VF	10~14	10
		5/32~1/2	Progressive	6	JS123XF	JS1255CHIVI				JS123XF		9 8~14	10 10
	Dinos profiles (estid)	<4	Flexible	6	JS922BF							14	10
	Pipes, profiles (solid) Coolant: cutting oil	<4	Heavy	6		JS920CF		JS920CF			JS920CF	9	10
	MAX RPM 500~2000	5/32~1/2 <7	Heavy Flexible	6	JS1122BF	JS955CHM		JS955CHM		JS1122BF	JS955CHM	9 14	10 10
		<7	Heavy	9	191177DL	JS1120CF		JS1120CF		191177DL	JS1120CF	9	10
		5/32~1/2	Heavy	9		JS1155CHM		JS1155CHM			JS1155CHM	9	10
	Plasterboard	<4	Special	6	JS641HM	JS611DF	JS711DF	1044 *****				6	103, 1
		<7 <8-1/2	Special Special	9 12		JS1141HM JS1243HM		JS1141HM JS1243HM				3	10
	Fiber cement panels	<10	Special	12		JS1243HM JS1241HM		JS1243HM				3	10
Į.		<14	Special	18		JS2243HM		JS2243HM				2	11
SPECIAL	Fiber hands the	<7	Special	9	JS1113AWP-2								11
M	Fiber insulation	<10 <12	Special Special	12 15-3/4	JS1213AWP JS2013AWP								11 11
SF		<7	Special	9	JOZULOAWP	JS1141HM		JS1141HM				3	10
		<8-1/2	Special	12		JS1243HM		JS1243HM				2	11
	Danama agriculta 11 12												
	Porous concrete, red brick	<10 <14	Special	12 18		JS1241HM JS2243HM		JS1241HM JS2243HM				2	109

# Reciprocating Saw Blades







<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	H inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS617K-5	5	6	5	3/4	0.049	3	10



Cuts coarse wood, free of nails (<4"), pruning green wood (diameter <4"), excellent for curved and plunge cutting.



ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1111K-5	5	9	8	3/4	0.049	3	10

Coarse wood, free of nails (<6-7/8"), firewood (diameter <6-7/8").

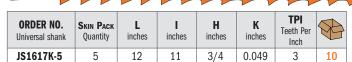












HCS /// Basic /// WOOD

Coarse wood, free of nails (<10"), pruning green wood (diameter <10").











<b>JS644D-5</b> 5 6 5 3/4 0.049 6 <b>10</b>	ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
	JS644D-5	5	6	5	3/4	0.049	6	10













Cuts construction wood (<4"), wooden wall panels (<4"), chipboard, MDF (1/4"~2-3/8"), plywood, plastic (<4"). Special for plunge cutting.

## JS1531L









_	9-1/2"/5TPI	CIVIT TOOLS
0		JS1531L
	$\neg \wedge$	

HCS /// Top /// WOOD

	ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	H inches	<b>K</b> inches	TPI Teeth Per Inch	8
	JS1531L-5	5	9-1/2	8-5/8	3/4	0.059	5	10
)	JS1531L-20	20	9-1/2	8-5/8	3/4	0.059	5	5

Coarse wood, free of nails (<7-1/2"), pruning green wood (diameter <7-1/2"), firewood (diameter <7-1/2").









ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	8
JS2345X-5	5	8	7-1/8	3/4	0.049	6-10	10















Cuts construction wood (<5-7/8"), chipboard, MDF (1/4"~2-3/8"), plywood, plastic (<6"), wooden wall (<5-7/8"). Effortless fine cutting.



## JS611DF

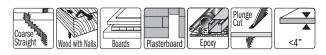








ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS611DF-5	5	6	5-1/8	3/4	0.049	6	10



Cuts wood with nails/embedded metal (<4"), plastic profiles (<4"), fiberglass and epoxy (<2"), wood and metal window frames. Special for plunge cutting.





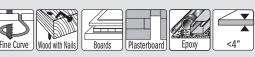
<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per	8
JS711DF-5	5	6	5-1/8	1/2	0.049	6	10











Cuts wood with nails/embedded metal (<4"), fiberglass and epoxy (<2"). Excellent for curved cuts.

### **JS1111DF**



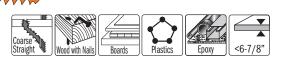








ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS1111DF-5	5	9	8	3/4	0.049	6	10
JS1111DF-20	20	9	8	3/4	0.049	6	5



For cutting wood with nails/embedded metal, chipboard (<6-7/8"), plastic profiles (<6-7/8"), fiberglass and epoxy (<2").

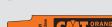
## **JS1411DF**











BIM // Heavy // WOOD & METAL

ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS1411DF-5	5	12	11	3/4	0.049	6	10

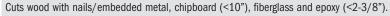














ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS610VF-5	5	6	5-1/8	7/8	0.063	5-8	10

















Cuts wood with nails/metal, wood, chipboard (<4"), fiberglass and epoxy (<4"), wood and metal wall cut-outs, (<4"). Excellent for rescue/demolition work.













# **IS1110VF**

BIM // Heavy // WOOD & METAL

ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS1110VF-5	5	9	8	7/8	0.063	5-8	10
JS1110VF-20	20	9	8	7/8	0.063	5-8	5



For cutting wood with nails/embedded metal, chipboard (<6-7/8"), fiberglass and epoxy, wood and metal wall cut-outs (<6-7/8"). For rescue and demolition work.

## **JS1210VF**











BIM // Heavy // WOOD & METAL

ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1210VF-5	5	12	11	7/8	0.063	5-8	10











Cuts wood with nails/embedded metal, wood, chipboard (<10"), fiberglass and epoxy (<10"), wood and metal wall cut-outs (<10").



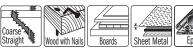








ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS3456XF-5	5	8	7-1/8	3/4	0.049	6-12	10
JS3456XF-20	20	8	7-1/8	3/4	0.049	6-12	5









For cutting wood with nails/embedded metal (<5-7/8"), sheet metal, pipe and aluminum profiles from (1/8"~23/32") in thickness, fiberglass and epoxy (<5-7/8").













ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS5678XF-5	5	9	8	1	0.049	6-12	10
JS5678XF-20	20	9	8	1	0.049	6-12	5













For cutting wood with nails or metal, chipboard (<6-7/8"), sheet metal, aluminum profiles (1/8"~23/32"), glass fiber-reinforced plastic/epoxy (<6-7/8").















BIM // Pallet // WOOD & METAL

ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	H inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS725VFR-5	5	8	7-1/8	3/4	0.050	8-12	10
JS725VFR-20	20	8	7-1/8	3/4	0.050	8-12	5

















Special saw blade for pallet repair. Cutting depth <5-7/8". Optimized for reduced vibration.





ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS922HF-5	5	6	5-1/8	3/4	0.035	10	10









For pallet repair, wood with nails/embedded metal (<4"), sheet metal, pipe, aluminum profiles (1/8"~1/2").



10 For pallet repair, wood with nails/embedded metal (<6-7/8"), sheet metal, pipe, aluminum profiles (1/8"~1/2"). Flexible flush cutting.

0.035

JS1122HF-20



9

20

ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS922VF-5	5	6	5-1/8	3/4	0.035	10-14	10

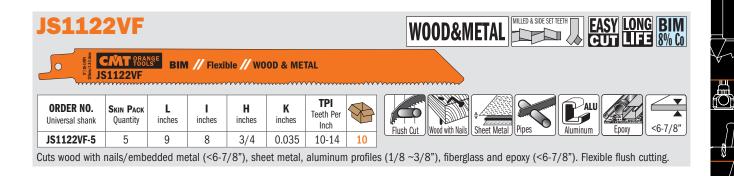
8

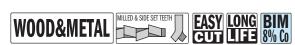
3/4

**WOOD&METAI** 



Cuts wood with nails/embedded metal (<4"), sheet metal, pipe and aluminum profiles (1/8"~3/8"), fiberglass and epoxy (<4").







ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch		Flush Cut Wood with Nails   Sheet Metal   Pipes   Aluminum   Epoxy   <1	10"
JS1222VF-5	5	12	11	3/4	0.035	10-14	10	Thus out (mod mannais) Greet metal (e.pee ) (mannain ( e.pesy )	

Cuts wood with nails/embedded metal (<10"), sheet metal, aluminum profiles (1/8"~3/8"), fiberglass and epoxy (<10"). Flexible flush cutting.









ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	H inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS956XHM-3	3	6	5-1/8	15/16	0.047	6-8	10



For cutting wood with nails or metal (nails/metal hardness up to 40 HRC), repairing pallets, plasterboard, plastics, glass fiber-reinforced plastic/epoxy, fiber cement (<4"). For rescue and demolition work.

### CARBIDE TOOTH









<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS1156XHM-3	3	9	8	15/16	0.047	6-8	10











For cutting wood with nails or metal (nails/metal hardness up to 40 HRC), repairing pallets, plasterboard, plastics, glass fiber-reinforced plastic/epoxy, fiber cement (<6-7/8"). For rescue and demolition work.











HW // Special // METAL

ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per	8
JS955CHM-3	3	6	5-1/8	15/16	0.047	8	10













For cutting thick sheet metal (3/16"~1/2"), pipes & profiles (<4"), plastics, glass fiber-reinforced plastic/epoxy, fiber cement (<4"), wood with nails or metal.



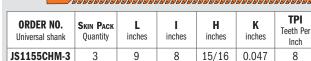






HW // Special // METAL

















For cutting thick sheet metal (3/16"~1/2"), pipes & profiles (<6-7/8"), plastics, glass fiber-reinforced plastic/epoxy, fiber cement (<6-7/8"), wood with nails or metal.

8





10









HW // Special // METAL

<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS1255CHM	1	12	10-1/2	15/16	0.047	8	10

















For cutting thick sheet metal (3/16"~1/2"), pipes & profiles (<10"), plastics, glass fiber-reinforced plastic/epoxy, fiber cement (<10"), wood with nails or metal.



### **JS920CF**



ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS920CF-5	5	6	5-1/8	7/8	0.063	9	10













Cuts thick sheet metal (5/32"~15/32"), thick-walled pipe and profiles (<4"). Ideal for pipe cutting, for rescue/demolition work. Powerful coarse cutting.



<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1120CF-5	5	9	8	7/8	0.063	9	10
JS1120CF-20	20	9	8	7/8	0.063	9	5

Accurate Angle Cut Straight

For cutting thick sheet metal (5/32"~15/32"), thick-walled pipe and profiles (<6-7/8"). Ideal for pipe cutters, for rescue/demolition work. Powerful coarse cutting.



ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS123XF-5	5	6	5-1/8	3/4	0.035	8-14	10

Cuts thin sheet metal  $(3/64^{\circ}-5/16^{\circ})$  pipes and profiles (diameter <4°).













ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	H inches	<b>K</b> inches	<b>TPI</b> Teeth Per	
JS925VF-5	5	6	5	3/4	0.049	10-14	10

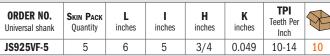






















Cuts medium-thick to thick sheet metal (5/64"~25/64"), thin and thick-walled pipe and profiles (<4"). Ideal for demolition work in metal. Fine effortless cutting.



ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS1025VF-5	5	8	7-1/8	3/4	0.049	10-14	10



















Cuts medium-thick to thick sheet metal (5/64"~25/64"), thin and thick-walled pipe and profiles (<5-7/8"). Ideal for demolition work on metal. Fine effortless cutting.

# Reciprocating Saw Blades















BIM // Heavy // METAL

ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1125VF-5	5	9	8	3/4	0.049	10-14	10



Cuts medium-thick to thick sheet metal (5/64"~25/64"), thin and thick-walled pipe and profiles (<6-7/8"). Ideal for demolition work on metal. Fine effortless cutting.













BIM // Heavy // METAL

ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	H inches	<b>K</b> inches	<b>TPI</b> Teeth Per	
JS1225VF-5	5	12	11	3/4	0.049	10-14	10











Cuts medium-thick to thick sheet metal (5/64"~25/64"), thin and thick-walled pipe and profiles (<10"). Ideal for demolition work in metal. Fine effortless cutting.



ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per					
JS922BF-5	5	6	5-1/8	3/4	0.035	14	10				
JS922BF-20	20	6	5-1/8	3/4	0.035	14	5				















Cuts thin sheet metal  $(1/8"\sim5/16")$ , thin pipe and profiles (diameter <4"). Fine effortless cutting.



ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1122BF-5	5	9	8	3/4	0.035	14	10
JS1122BF-20	20	9	8	3/4	0.035	14	5

















Cuts thin sheet metal  $(1/8"\sim5/16")$ , thin pipe and profiles (diameter <6-7/8"). Fine effortless cutting. Flexible flush cuts.



ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS922EF-5	5	6	5-1/8	3/4	0.035	18	10
JS922EF-20	20	6	5-1/8	3/4	0.035	18	5

Cuts thin sheet metal  $(1/16^{\circ} - 5/32^{\circ})$ , pipe and profiles (diameter <4°).























### **JS1122EF**





ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per	
JS1122EF-5	5	9	8	3/4	0.035	18	10
JS1122EF-20	20	9	8	3/4	0.035	18	5















Cuts thin sheet metal  $(1/16^{\circ}\sim5/32^{\circ})$ , pipe and profiles (diameter <6-7/8°). Flexible flush cuts.



***************************************										
<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per	8			
JS922AF-5	5	6	5-1/8	3/4	0.035	24	10			













Cuts thin sheet metal (1/32"~1/8"), fine pipe and profiles (diameter <4"). Effortless fine cuts.















ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS1122AF-5	5	9	8	3/4	0.035	24	10















Cuts thin sheet metal (1/32"~1/8"), fine pipe and profiles (diameter <6-7/8"). Effortless fine cuts.





ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS641HM-2	2	6	5-1/8	3/4	0.047	6	25











Cuts porous concrete, red brick, fiber cement, plasterboard, fiber-reinforced plastic and epoxy (<4"), wood & nails, ETERNIT®, MDF.













HW // Special // POROUS CONCRETE

<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	TPI Teeth Per Inch	
JS1141HM-2	2	9	8	7/8	0.047	3	25













For cutting porous concrete, red brick, fiber cement (3/8"-6-7/8"), glass fiber-reinforced plastic/epoxy (<4"). Fast Cut.











HW // Special // POROUS CONCRETE

<b>ORDER NO.</b> Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1241HM-2	2	12	11	7/8	0.059	3	25













109

For cutting porous concrete, red brick, fiber cement (3/8"-10"), glass fiber-reinforced plastic/epoxy (<4"). Fast Cut.





**CARBIDE** TOOTH



ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	H inches	<b>K</b> inches	TPI Teeth Per Inch	8
JS1243HM	1	12	10	2	0.059	2	25













Cuts medium-sized brick up to 8-1/2" in thickness.



**CARBIDE TOOTH** 



ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	I inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS2243HM	1	18	16	2	0.049	2	25









SPECIAL LIFE CUT CARBIDE LIFE CUT



Cuts large brick up to 14-3/8" in thickness.

**JS1113AWP-2** 







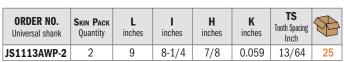








HCS // Special // FIBRE INSULATION



JS1113AWP













For cutting polystyrene and fiber insulation (<7"). Clean and precision cut.

SPECIA









JS1213AWP

HCS // Special // FIBRE INSULATION

new

TS ORDER NO. K SKIN PACK L ī н Tooth Spacing Universal shank Quantity inches inches inches inches Inch 11 7/8 0.059 13/64 JS1213AWP











For cutting polystyrene and fiber insulation (<10"). Clean and precision cut.

**JS2013AWP** 

HCS // Special // FIBRE INSULATION













ORDER NO. Universal shank	SKIN PACK Quantity	L inches	I inches	H inches	<b>K</b> inches	TS Tooth Spacing Inch	
JS2013AWP	1	15-3/4	15	1-3/4	0.059	13/64	25











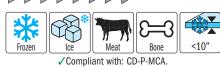
For cutting polystyrene and fiber insulation (<12"). Clean and precision cut.



# **JS1211K**



ORDER NO. Universal shank	SKIN PACK Quantity	<b>L</b> inches	inches	<b>H</b> inches	<b>K</b> inches	<b>TPI</b> Teeth Per Inch	
JS1211K-5	5	12	10-7/8	3/4	0.047	3	10



Ideal for sectioning and cutting meat, bone, frozen products and ice up to 10" in thickness.

# 25-piece Reciprocating Saw Blade Set



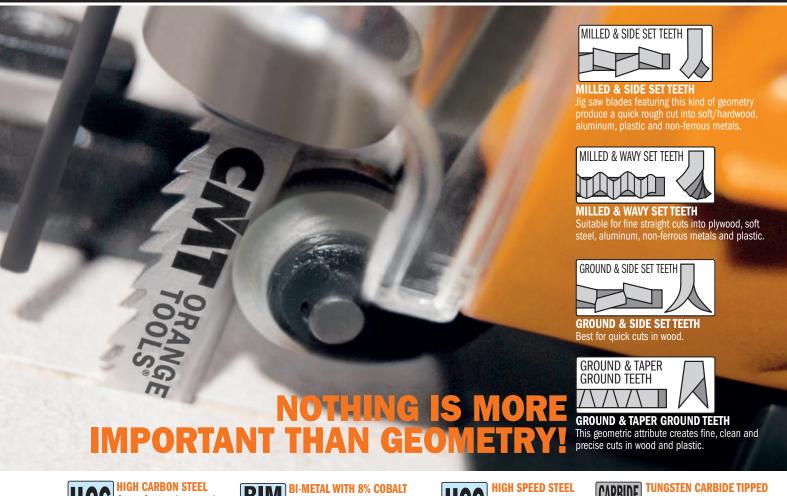
# **JS025**



Minimum 10 pieces or multiple

# **QUALITY MATERIALS FOR OUTSTANDING PERFORMANCE**

State-of-the-art processes and high-tech machinery are behind all of our jig saw blades. Composed of three different materials, they're specifically designed to make precise cuts on soft & hardwood, plywood, OSB, laminates, plastics, HPL, multiplex panels, metals, ferrous and non-ferrous materials, aluminum, fiberglass and stainless steel. And the best part, they're built to last!







Premium bi-metal with 8% Cobalt provides superb results and guarantees long life when cutting metal, non-ferrous, plastic and wood with nails.



For cutting harder materials, such as metals, aluminum and non-ferrous metals.



For cutting fiber cement board, brick, porous concrete, plasterboard, MDF, fiberglass and ETERNIT®.

### THE RIGHT BLADE FOR THE BEST RESULTS!

Quick reference charts and pictograms help you choose the right blade for your application.











BIM // Fine // WOOD & METAL









































# Guide to choosing the most suitable jig saw blade



			1.0			`		
SERIES	MATERIAL	THICKNESS	LINE	FINE STRAIGHT	COARSE STRAIGHT	FINE CURVE	COARSE CURVE	PAGE
	Softwood	1/16 - 3/4	Fine			JT101A0		116
	Softwood	, ,						
		5/64 - 19/32	Basic			JT119B0		115
		1/8 - 2-9/16	Fine, Splinter-Free	JT234X				117
		1/8 - 1-1/4	Fine	JT101B				117
		1/8 - 1-1/4	Fine, Splinter-Free	JT101BR				116
		5/32 - 2-3/8	Basic		JT111C			115
		7/32 - 2-3/8	Fast	JT144DHM	JT144D		JT244D - JT244DDC	115
		13/64 - 4	Fast	3121151111	JT344D		312110 31211000	116
				IT404D	טדדטונ			
		1/4 - 2-3/8	Fine	JT101D				117
		3/16 - 2-9/16	Fine	JT301CD - JT318VF				117
	Hardwood	1/16 - 3/4	Fine			JT101A0		116
		1/8 - 1-1/4	Fine	JT101B				116
		1/8 - 1-1/4	Fine, Splinter-Free	JT101BR				116
		1/8 - 2-9/16	Fine, Splinter-Free	JT234X				117
		7/32 - 2-3/8	Fast	JT144DHM	JT144D		JT244D - JT244DDC	115
		13/64 - 4	Fast		JT344D			116
				JT101D	713440			117
		1/4 - 2-3/8	Fine					
		3/16 - 2-9/16	Fine	JT301CD - JT318VF				117
	OSB	5/64 - 19/32	Basic			JT119B0		115
		1/8 - 1-1/4	Fine	JT101B				117
		5/32 - 2-3/8	Basic		JT111C			115
		7/32 - 2-3/8	Fast	JT144DHM	JT144D		JT244D - JT244DDC	115
		1/4 - 2-3/8	Fine	JT101D - JT318VF				117
WOOD	Plywood	1/16 - 3/4	Fine			JT101A0		116
0	11,11000	5/64 - 19/32	Basic			JT119B0		115
3			Fine	JT101B		3111300		116
		1/8 - 1-1/4						
		1/8 - 1-1/4	Fine, Splinter-Free	JT101BR				116
		1/8 - 2-9/16	Fine, Splinter-Free	JT234X - JT318VF				117
		5/32 - 2-3/8	Basic		JT111C			115
		7/32 - 2-3/8	Fast	JT144DHM	JT144D		JT244D - JT244DDC	115
		13/64 - 4	Fast		JT344D			116
		1/4 - 2-3/8	Fine	JT101D - JT318VF				117
	Construction Wood	<1-1/4	Fine	JT101B				116
		1/8 - 2-9/16	Fine, Splinter-Free	JT234X				117
		<4	Fast		JT344D			116
		<5-3/8	Fast	JT144DHM	JT144D			115
	Chipboard	5/64 - 19/32	Basic	JIITTUIIII	JIITTU	JT119B0		115
	Cilipuoaru			ITAGAD				
		1/8 - 1-1/4	Fine	JT101B		JT101A0		116
		1/8 - 2-9/16	Fine, Splinter-Free	JT234X - JT318VF				117
		5/32 - 2-3/8	Basic		ЛТ111С			115
		7/32 - 2-3/8	Fast	JT144DHM	JT144D		JT244D - JT244DDC	115
	Laminated panels	1/16 - 3/4	Fine			JT101A0		116
	Kitchen Tops	1/16 - 3/4	Fine, Long Life	JT101BIF				117
	Worktops	1/8 - 1-1/4	Fine	JT101B				116
		1/8 - 1-1/4	Fine, Splinter-Free	JT101BR				116
			Fine, Splinter-Free	JT234X				117
		1/8 - 2-9/16					-	
		3/16 - 2	Fine, Splinter-Free	JT308BFP				117
		3/16 - 2	Fine, Long Life	JT128BHM			-	117
	Sheet metals	3/64 - 1/8	Basic	JT118A		JT218A		118
		1/16 - 3/8	Fast, Long Life	JT123X - JT318VF				117, 118
		3/64 - 1/8	Basic	JT118B				118
METAL	Aluminum, non-ferrous	<1-1/4	Fast	JT127D				118
ш		1/16 - 3/8	Fast	JT123X - JT318VF				117, 118
≥	Pipes	<1-1/4	Fast	JT123X - JT318VF				117, 118
	Inox Sheets	1/16 - 3/8	Fast	JT123X - JT318VF				117, 118
	Sandwich Material	<4-3/4	Fast, Flexible	JT718BF				118
	GRP (Fiberglass)	<1-1/4	Fast	JT127D				118
	, ,	· · · · · · · · · · · · · · · · · · ·						117
	Plastic (PP, PE, PVC, PA, PS)	<1-1/4	Fine	JT101D JT123X				
		<1-1/4	Fast				-	118
		3/16 - 2-9/16	Fine	JT301CD - JT318VF				117
<b>a</b>	Plasterboard	3/16 ~ 2	Special		JT141HM			119
5		3/16~3	Special		JT341HM			119
SPECIAL	GRP (Fiberglass)	<80	Special		JT341HM			119
<u></u>	Fiber cement boards	3/16~2	Special		JT141HM			119
<del>,</del>		3/16~3	Special		JT341HM			119
		3/16~3	Special	JT367XHM				119
	Carton, Leather, Rubber	<4	Special	JT313AW				119
	Soft Tile, Cast Iron	3/16~3/8	Special	JT150RF				119
	JUIL THE, GASE HUII	2/10.23/0	Sherigi	MACTIC			<u> </u>	113



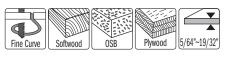
# JT119B0



ORDER NO. T-Shank	SKIN PACK Quantity	I inches	<b>L</b> inches	TPI Teeth Per Inch	8
JT119B0-5	5	2	3	12	100

Curve cuts on softwood (5/64"~19/32"), plywood, OSB.







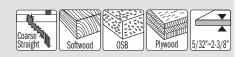
JT111C

HCS Basic WOOD

ORDER NO. T-Shank	SKIN PACK Quantity	I inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	
JT111C-5	5	3	4	8	100

Fast coarse cuts on softwood (5/32"~2-3/8"), plywood, OSB.





JT144D

WOOD JT144D

ORDER NO. T-Shank	SKIN PACK Quantity	l inches	L inches	TPI Teeth Per Inch	8
JT144D-5	5	3	4	6	100
JT144D-25	25	3	4	6	10
IT144D-100	100	3	А	6	Δ

Very fast cuts, straight and coarse, on hard/softwood (7/32"~2-3/8"), plywood, OSB. Plunge cutting.





SKIN PACK Quantity

CAT ORANGE CARBIDE // XTreme // WOOD

<b>L</b> inches	<b>TPI</b> Teeth Per Inch		
4	г 7	4.0	

Superior cuts and XTREME durability in composite decking materials and

inches

3







hard woods (7/32"~2-3/8"). Plunge cutting.

ORDER NO.

T-Shank

JT144DHM



ORDER NO. T-Shank	SKIN PACK Quantity	l inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	8
JT244D-5	5	3	4	6	100

Fast, curve, coarse cut on soft and hardwood (7/32"~2-3/8"), plywood, OSB. Plunge cutting









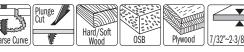












### **JT244DDC**

ORDER NO. T-Shank	SKIN PACK Quantity	<b>I</b> inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	
JT244DDC-5	5	3	4	6	100

Hard/Soft Wood Plywood

Fast, curve, coarse cut on soft and hardwood (7/32"~ 2-3/8"), plywood, OSB. Plunge cutting. Special "DUO" (double) cuts for fast curve cutting.

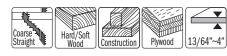




JT344D



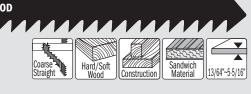
ORDER NO.	SKIN PACK	l	L	TPI	8
T-Shank	Quantity	inches	inches	Teeth Per Inch	
JT344D-5	5	4-1/8	5-1/4	6	100



Very fast cuts, straight and coarse on thick construction timber, hard/softwood (13/64"~4"), plywood, OSB.



ORDER NO. T-Shank	SKIN PACK Quantity	inches	L inches	<b>TPI</b> Teeth Per Inch	8
JT744D-3	3	6-7/64	7-3/32	6	20



GROUND & TAPER GROUND TEETH

Very fast cuts, straight and coarse on thick construction timber, hard/softwood (13/64"~5-5/16") and sandwich material.

TPI Teeth Per Inch

20



inches

}	Fine Curve Wood Plywood Chipboard	Laminate	1/1
	Time darke ( Wood ) ( 1911-12 ) ( Simpodial )		<u></u>

100 Curved cuts, fine finishing on both sides of surface on hard/softwood, plywood, chipboard, MDF, double sided laminates (1/16"~3/4").

10

ORDER NO.

T-Shank

JT101A0-5

SKIN PACK

Quantity

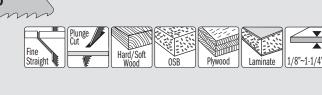
CMT ORANGE HCS // Fine // WOOD JT101B

П

inches

3

	m	nn	nn	mm	m
<b>ORDER NO.</b> T-Shank	SKIN PACK Quantity	I inches	L inches	<b>TPI</b> Teeth Per Inch	8
JT101B-5	5	3	4	10	100



10 Fine straight cuts with fine finishing on hard/softwood, plywood, OSB and plastics (1/8"~1-1/4"). Plunge cutting.

### '101BR

JT101BR

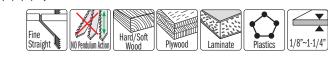
JT101B-25



HCS



ORDER NO. T-Shank	SKIN PACK Quantity	l inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	8
JT101BR-5	5	3	4	10	100
JT101BR-25	25	3	4	10	10



Straight cuts, fine finishing on upper side, hard/softwood, plywood, OSB, laminated panels, plastics (1/8"~1-1/4"). Reverse tooth.

Fine //

WOOD



JT101D



ORDER NO. T-Shank	SKIN PACK Quantity	<b>I</b> inches	L inches	<b>TPI</b> Teeth Per Inch	8
JT101D-5	5	3	4	6	100

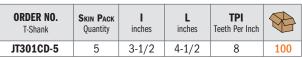
Plunge Cut Softwood OSB Plywood Plastics 1/4"	-2-3/8

Straight cuts, fine finishing on upper side, on hard/softwood, plywood, OSB, laminates and plastics (1/4"~2-3/8"). Plunge cutting.



# **JT301CD**

















Straight cuts, good finishing, on hard/softwood, plywood, laminates and plastics (3/16"~2-9/16").



JT234X CMT ORANGE 

**HCS** // Progressive // WOOD









ORDER NO. T-Shank	SKIN PACK Quantity	inches	L inches	<b>TPI</b> Teeth Per Inch	
JT234X-5	5	3-1/2	4-1/2	8-12	100

Extra-clean straight cuts, splinter-free finish, on hard/softwood, plywood, OSB, laminates (1/8"~2-9/16").







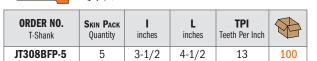






### JT308BFP

Top & Bottom Fine Finish // WOOD JT308BFP



Straight and curved cuts, fine finishing on top and bottom, surface, on hard/softwood, plywood, chipboard, laminate (3/16"~2"). Reverse tooth. Bidirectional tooth.



new







BI-DIRECTIONAL TOOTH

arawara





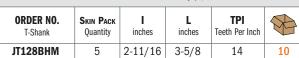
**CUT** 8% Co



### **128BHM**

**TOOTH** 

CMT ORANGE CARBIDE // XTreme // LAMINATED



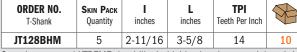












Superior cuts and XTREME durability in highly abrasive material such laminate and laminate flooring and TRESPA $^{\circ}$ , (3/16"~2").













### JT101BIF

CMT ORANGE BIM // LAMINATE JT101BIF

ORDER NO. T-Shank	SKIN PACK Quantity	I inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	8
JT101BIF-5	5	2-5/16	3-1/4	15	100

Splinter-free cuts. Special for all laminates, HPL and multiplex panels (1/16"~5/8").















117

# JT318VF

**JT318VF** 

CMT ORANGE

BIM // Fine // WOOD & METAL





ORDER NO. T-Shank	SKIN PACK Quantity	inches	L inches	<b>TPI</b> Teeth Per Inch	8
JT318VF-5	5	4-3/8	5-1/4	10-15	100























ORDER NO. T-Shank	SKIN PACK Quantity	<b>I</b> inches	L inches	TPI Teeth Per Inch	8
JT118A-5	5	2	3	21	100

Straight cuts on thin sheet metals, ferrous and non-ferrous (3/64"~1/8").









CMT ORANGE HSS // METAL **JT218A** 

ORDER NO. T-Shank	SKIN PACK Quantity	inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	8
JT218A-5	5	2	3	21	100

Curve cuts on thin sheet metals, ferrous and non-ferrous (3/64"~1/8").













### JT118B

CMT PRANGE HSS // METAL JT118B

ORDER NO. T-Shank	SKIN PACK Quantity	inches	<b>L</b> inches	<b>TPI</b> Teeth Per Inch	8
JT118B-5	5	2	3	12	100

Straight cuts on medium-thick metals, ferrous and non-ferrous (1/8"~1/4").















CMT ORANGE **HSS** // Progressive // METAL JT123X

ORDER NO. T-Shank	SKIN PACK Quantity	l inches	L inches	<b>TPI</b> Teeth Per Inch	8
JT123X-5	5	3	4	10-21	100

Straight cuts on thin to thick sheet metals (1/16"~3/8"), pipes, profiles in plastic and aluminum (<1-1/4"), stainless steel (1/16" $\sim1/8$ ").



JT127D



ORDER NO. T-Shank	SKIN PACK Quantity	I inches	<b>L</b> inches	TPI Teeth Per Inch	8
JT127D-5	5	3	4	8	100

Special for aluminum, thin to thick (1/8"~5/8"), pipes and profiles, (<1-1/4") including plastic, fiberglass and epoxy.











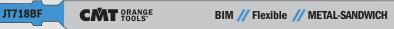




Stainless Steel

1/16"~1/8"

118



ORDER NO. T-Shank	SKIN PACK Quantity	l inches	L inches	<b>TPI</b> Teeth Per Inch	8
JT718BF-3	3	6-3/8	7-1/4	14	20

Special for sandwich materials & solid surfaces (<4-3/4").











### **JT141HM**



ORDER NO.

T-Shank

JT141HM-3



inches

3

SKIN PACK

Quantity













Plasterboard, fiber cement boards (<2"). Fiberglass/Epoxy (3/16"~3/4"), ETERNIT®, MDF, HDF.

L

inches

4

**TPI** 

Teeth Per Inch

6

50

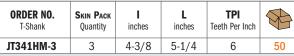
### **JT341HM**







HW/// Special // FIBER & PLASTER MANAMAMA











Plasterboard, fiber cement boards (<3"). Glass fiber reinforced plastic/epoxy (3/16"~1-31/32"), fiber cement, MDF, HDF.

# JT367XHM



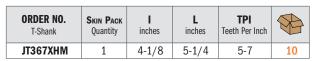








CMT ORANGE HW//Special // THIN & THICK MULTI-MATERIALS













Fast cuts, XTREME durability in a wide range of materials like wood with nails/metal, wood, sheet metal, aluminium, fibreglass, plastic/epoxy.

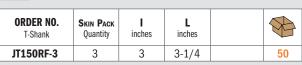
# JT150RF

**CARBIDE** 

CMT ORANGE HW // Special // CERAMIC JT150RF



















119

Soft ceramic tiles, cast iron (13/64"-3/8"), rienforced fiberglass.



<b>ORDER NO.</b> T-Shank	SKIN PACK Quantity	<b>I</b> inches	<b>L</b> inches	
JT313AW-3	3	4	6	100
_				

Cardboard, polystyrene, carpet, leather, rubber, fiberglass thermal insolation panels (<4").



















# **JT016**

































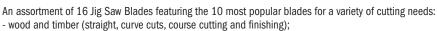












- plasterboard, fiber cement, fiberglass, epoxy resins, and panels such as  ${\sf ETERNIT}^{\scriptsize \textcircled{\tiny 0}};$
- metal and sheet metal both thick and thin;
- stainless steel;
- aluminum and plastics.



CMT ORANGE

16 JIG SAW BLADES

15 Sets in End-cap display (minimum 15 pieces or multiple)







# ACCESSORIES FOR MULTI-CUTTERS

### STARLOCK®/STARLOCKPLUS®/STARLOCKMAX® Arbors

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Asymetric Blade for Wood & Metal	127
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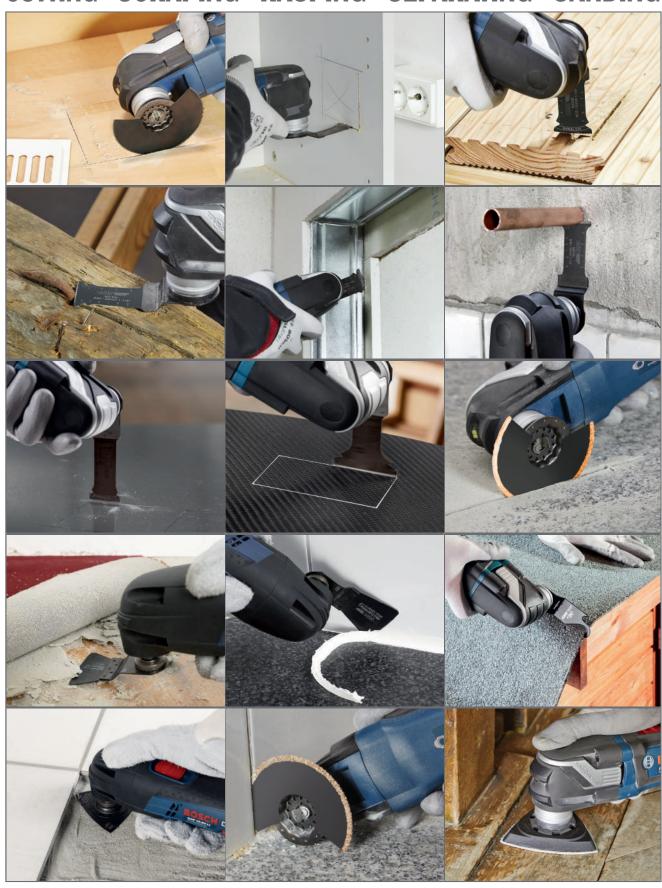








# **CUTTING - SCRAPING - RASPING - SEPARATING - SANDING**





### **TOOTH CHARACTERISTICS**



HIGH CARBON STEEL

for cutting wood and plastic.



**BI-METAL WITH 8% COBALT** 

for cutting wood and derivates, nail embedded wood, plastic and metal.



BIM BI-METAL WITH 8% COBALT WITH TITANIUM COATING

for cutting metal, nail embedded wood and plastic, providing extreme performance and longer lifetime.



TUNGSTEN CARBIDE ILIPPED for cutting wood, screws and nails, fiber cement plactic sheet metal. copper board, plasterboard, plastic, sheet metal, copper, aluminium and stainless steel. Doubles tool lifetime.



TUNGSTEN CARBIDE GRIT COATED

for routing joints and grooves, smaller cutouts,
and routing recesses in a variery of materials:
tiles, plasterboard, porous concrete, construction materials, epoxy and fiberglass.



#### DIAMOND GRIT COATED

for routing joints and grooves, smaller cutouts, and routing recesses in a variety of materials: tiles, plasterboard, porous concrete, construction materials, epoxy and fiberglass. Extreme performance and longer lifetime.



# TOOTH LIFE TIME CARBIDE **UP TO 20X\*** BIM TiN 18% Co 0% 100% 200% 300% 400%

### STARLOCK®: THE NEW SYSTEM FOR MULTI-CUTT

STARLOCK® enables extremely reliable and fast accessory changes in a record time of less than 3 seconds. It also guarantees a secure fit and therefore maximum power transfer. The result: up to around 35% faster performance depending on the accessory, noticeably improved precision and reduced noise. To protect the individual tools from overload and damage, the system is divided into 3 performance classes: **STARLOCKPLUS®** and **STARLOCKMAX®**.

POWERTOOL COMPATIBILITY CHART FOR CMT MULTI-CUTTER ACCESSORIES  Some brands may require an adaptor	STARLOCK	STARLOCK PLUS	STARLOCK MAX
AEG®	•		
BOSCH®	•	•	•
CMT®	•		
CRAFTSMAN®	•	•	
DEWALT® - DREMEL® - EINHELL®	•		
FEIN® MULTITALENT®/MULTIMASTER®	•		
FEIN® SUPERCUT AUTOMOTIVE/CONSTRUCTION	•		•
FESTOOL® VECTURO®	•	•	•
HITACHI®	•		
MAKITA®	•	•	
METABO®	•		
MILWAUKEE®	•	•	
RIDGID®	•		
ROCKWELL® - RYOBI® - SKIL®	•	•	
WORX®	•		



### THE RIGHT BLADE FOR THE BEST RESULTS!

Quick reference charts and pictograms help you choose the right blade for your application.



#### W00D



# **WOOD&METAL**



# METAL



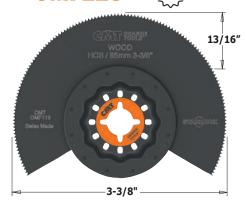
### **MULTI-MATERIALS**



# MASONRY



# OMF113 STARLOCK



#### **SEGMENT BLADE**

3-3/8" - HCS - WOOD





#### WOOD



ORDER NO. STARLOCK®	Pack Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF113-X1	1 in clamshell	3-3/8	13/16	1.4	18	20

# **OMF133** STARLOCK



**124** 

#### RADIAL BLADE 1-1/4" - HCS - WOOD





# WOOD





RADIAL SHAPE For accurate cuts

ORDER NO. Starlock®	<b>Pack</b> Quantity	<b>W</b> inches	I inches	TS mm	TPI Teeth Per Inch	8
OMF133-X5	5 in clamshell	1-1/4	2	1.4	18	15
OMF133-X50	50 bulk masterpack	1-1/4	2	1.4	18	6



# OMF126 STARLOCK



# RADIAL BLADE - CLEAN CUT

1-1/4" - HCS - WOOD







#### WOOD









RADIAL SHAPE FOR ACCURATE CUTS

ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF126-X1	1 in clamshell	1-1/4	2	1.4	18	20
OMF126-X5	5 in clamshell	1-1/4	2	1.4	18	15
OMF126-X50	50 bulk masterpack	1-1/4	2	1.4	18	6

# OMF230 STARLOCK



### **RADIAL BLADE - CLEAN CUT**

2-9/16" - HCS - WOOD







#### **WOOD**









RADIAL SHAPE FOR ACCURATE CUTS

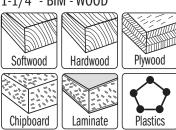
ORDER NO. STARLOCK®	<b>Раск</b> Quantity	<b>W</b> inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF230-X1	1 in clamshell	2-9/16	1-9/16	1.8	14	20
OMF230-X5	5 in clamshell	2-9/16	1-9/16	1.8	14	15
OMF230-X50	50 bulk masterpack	2-9/16	1-9/16	1.8	14	6

# OMF205 STARLOCK



# RADIAL BLADE - CLEAN CUT

1-1/4" - BIM - WOOD









RADIAL SHAPE For accurate cuts

125

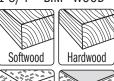
ORDER NO. STARLOCK®	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF205-X1	1 in clamshell	1-1/4	2	1.8	14	20
OMF205-X5	5 in clamshell	1-1/4	2	1.8	14	15
OMF205-X50	50 bulk masterpack	1-1/4	2	1.8	14	6



# OMF232 STARLOCK



#### **RADIAL BLADE - CLEAN CUT** 1-3/4" - BIM - WOOD



Chipboard







**WOOD** 











RADIAL SHAPE For accurate cuts

ORDER NO. STARLOCK®	<b>Pack</b> Quantity	W inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF232-X1	1 in clamshell	1-3/4	1-3/4	1.8	14	20
OMF232-X5	5 in clamshell	1-3/4	1-3/4	1.8	14	15

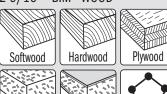
# **OMF229 STARLOCK**

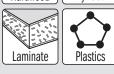


# **RADIAL BLADE - CLEAN CUT**

2-9/16" - BIM - WOOD

Chipboard





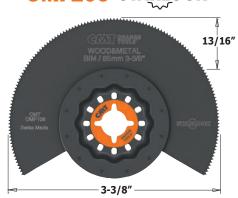
### **WOOD**



RADIAL SHAPE For accurate cuts

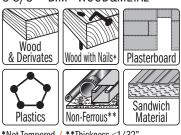
ORDER NO. STARLOCK®	<b>Pack</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF229-X1	1 in clamshell	2-9/16	1-9/16	1.8	14	20
OMF229-X5	5 in clamshell	2-9/16	1-9/16	1.8	14	15
OMF229-X50	50 bulk masterpack	2-9/16	1-9/16	1.8	14	6

# **OMF106 STARLOCK**



#### **SEGMENT BLADE**

3-3/8" - BIM - WOOD&METAL



\*Not Tempered / \*\*Thickness ≤1/32"

ORDER NO. STARLOCK®	<b>Pack</b> Quantity	W inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF106-X1	1 in clamshell	3-3/8	13/16	1.4	18	20

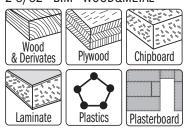




# OMF053 STARLOCK



# ASYMETRIC RADIAL BLADE 2-3/32 - BIM - WOOD&METAL



# WOOD&METAL





RADIAL SHAPE For accurate cuts

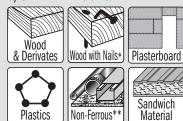
ORDER NO. Starlock®	<b>Раск</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF053-X1	1 in clamshell	2-3/32	1-9/16	1.8	14	20

# OMF184 STARLOCK



### STRAIGHT BLADE

3/8" - BIM - WOOD&METAL



\*Not Tempered / \*\*Thickness ≤1/32"

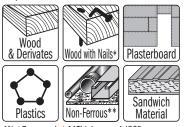
ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF184-X5	5 in clamshell	3/8	1	1.3	20	15

# OMF183 STARLOCK



#### **STRAIGHT BLADE**

13/16" - BIM - WOOD&METAL



\*Not Tempered / \*\*Thickness ≤1/32"

ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF183-X1	1 in clamshell	13/16	1-3/16	1.3	20	20
OMF183-X5	5 in clamshell	13/16	1-3/16	1.3	20	15









# OMF160 STARLOCK



#### **RADIAL BLADE** 1-1/4" - BIM - WOOD&METAL



\*Not Tempered / \*\*Thickness ≤1/32"

# **WOOD&METAL**





RADIAL SHAPE FOR ACCURATE CUTS

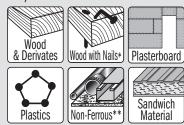
ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF160-X1	1 in clamshell	1-1/4	2	1.3	20	20
OMF160-X5	5 in clamshell	1-1/4	2	1.3	20	15
OMF160-X50	50 bulk masterpack	1-1/4	2	1.3	20	6

# **OMF223 STARLOCK**



#### **RADIAL BLADE**

1-3/4" - BIM - WOOD&METAL



\*Not Tempered / \*\*Thickness ≤1/32"

# **WOOD&METAL**





RADIAL SHAPE For accurate cuts

ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF223-X1	1 in clamshell	1-3/4	1-9/16	1.3	20	20
OMF223-X5	5 in clamshell	1-3/4	1-9/16	1.3	20	15
OMF223-X50	50 bulk masterpack	1-3/4	1-9/16	1.3	20	6

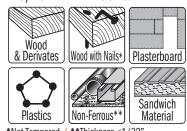
# **OMF228 STARLOCK**



128

#### RADIAL BLADE

2-9/16" - BIM - WOOD&METAL



\*Not Tempered / \*\*Thickness ≤1/32"

# **WOOD&METAL**





RADIAL SHAPE For accurate cuts

ORDER NO. Starlock®	<b>Pack</b> Quantity	<b>W</b> inches	inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF228-X5	5 in clamshell	2-9/16	1-9/16	1.3	20	15
OMF228-X50	50 bulk masterpack	2-9/16	1-9/16	1.3	20	6



**METAL** 

# OMF157 STARLOCK



#### STRAIGHT BLADE

1-1/4" - BIM - METAL











\*Not Tempered / \*\*Thickness ≤1/32"

ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF157-X1	1 in clamshell	1-1/4	2	1.3	20	20
OMF157-X5	5 in clamshell	1-1/4	2	1.3	20	15
OMF157-X50	50 bulk masterpack	1-1/4	2	1.3	20	6

# OMF236 STARLOCK



#### STRAIGHT BLADE

1-1/4" - CARBIDE TIPPED - MULTI-MATERIALS









# **MULTI-MATERIALS**





\*Not Tempered / \*\*Thickness ≤1/32"

ORDER NO. STARLOCK®	<b>Pack</b> Quantity	W inches	inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF236-X1	1 in clamshell	1-1/4	1-9/16	1.1	20	20

# OMF238 STARLOCK



#### STRAIGHT BLADE

1-3/4" - CARBIDE TIPPED - MULTI-MATERIALS







# TIPPED CARBIDE



**MULTI-MATERIALS** 

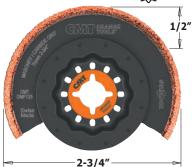


\*Not Tempered / \*\*Thickness ≤1/32"

ORDER NO. STARLOCKPLUS®	<b>Раск</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF238-X1	1 in clamshell	1-3/4	1-9/16	1.1	20	20



# OMF125 STARLOCK



#### **SEGMENT BLADE**

2-3/4" - CARBIDE GRIT - MASONRY













# MASONRY



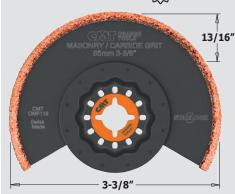






ORDER NO. STARLOCK®	Pack Quantity	W inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF125-X1	1 in clamshell	2-3/4	1/2	-	-	20

# OMF118 STARLOCK



#### **SEGMENT BLADE**

3-3/8" - CARBIDE GRIT - MASONRY



Fibrecement



Aerated Concrete







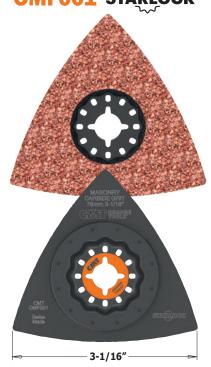






	8	<b>TPI</b> Teeth Per Inch	TS mm	I inches	<b>W</b> inches	<b>Pack</b> Quantity	ORDER NO. Starlock®
<b>OMF118-X1</b> 1 in clamshell 3-3/8 13/16	20	-	-	13/16	3-3/8	1 in clamshell	OMF118-X1

# OMF001 STARLOCK



130

#### **RASP**

3-1/16" - CARBIDE GRIT - MASONRY













# MASONRY



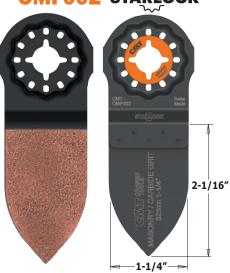




ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF001-X1	1 in clamshell	3-1/16	-	-	-	20



# OMF002 STARLOCK



#### **RASP**

1-1/4" - CARBIDE GRIT - MASONRY









# **MASONRY**

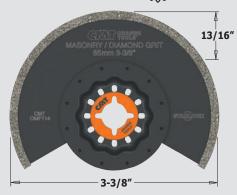






ORDER NO. STARLOCK®	<b>Раск</b> Quantity	W inches	I inches	TS mm	TPI Teeth Per Inch	8
OMF002-X1	1 in clamshell	1-1/4	2-1/16	-	-	20





#### **SEGMENT BLADE**

3-3/8" - DIAMOND GRIT - MASONRY













# **MASONRY**





ORDER NO. Starlock®	<b>Раск</b> Quantity	<b>W</b> inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF114-X1	1 in clamshell	3-3/8	13/16	-	-	20

# OMF243 STARLOCK MAX



#### **CORNER SEGMENT BLADE**

2-11/16" - DIAMOND GRIT - MASONRY













# **MASONRY**





131





ORDER NO. STARLOCKMAX®	<b>Pack</b> Quantity	W MSinches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF243-X1	1 in clamshell	2-11/16	1-1/4	-	-	20



# OMF239 STARLOCK



#### SCRAPER BLADE 1-1/8" - HCS - MULTI-MATERIALS



### **MULTI-MATERIALS**





ORDER NO. Starlock®	<b>Pack</b> Quantity	W inches	inches	TS mm	<b>TPI</b> Teeth Per Inch	8
OMF239-X1	1 in clamshell	1-1/8	1-9/16	-	-	20

# OMF226 STARLOCK



# SCRAPER BLADE FOR HARD RESIDUES

2-1/16" - HCS - MULTI-MATERIALS





# **MULTI-MATERIALS**







ORDER NO. Starlock®	<b>Раск</b> Quantity	<b>W</b> inches	I inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF226-X1	1 in clamshell	2-1/16	1	-	-	20

# **OMF165 STARLOCK**



### **SCRAPER BLADE FOR SOFT RESIDUES**

2-1/16" - HCS - MULTI-MATERIALS





### **MULTI-MATERIALS**





ORDER NO. Starlock®	Pack Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF165-X1	1 in clamshell	2-1/16	1-9/16	-	-	20



# OMF201 STARLOCK



#### **SEALANTS/TEAK SEAMS KNIFE** HCS - MULTÍ-MATERIALS





### **MULTI-MATERIALS**





**MULTI-MATERIALS** 



ORDER NO. STARLOCK®	<b>Pack</b> Quantity	W inches	l inches	TS mm	<b>TPI</b> Teeth Per Inch	
OMF201-X1	1 in clamshell	15/64	1-1/8	-	-	20

# OMF251 STARLOCK



### **MULTI-KNIFE FOR SOFT MATERIALS**

HCS - MULTI-MATERIALS









ORDER NO.

STARLOCK®

OMF251-X1





PACK

Ouantity

1 in clamshell

9	
Roofing Fabric	

			3/04
<b>W</b> inches	TS mm	<b>TPI</b> Teeth Per Inch	R

# OMF-X4 STARLOCK



15/16 & 7/16

**WOOD** 

**WOOD&METAL** 

20

133

#### **4 PCS. GENERAL PURPOSE SET** FOR OSCILLANTING MULTI-TOOLS

ORDER NO.	PACK Quantity	MATERIAL	<b>W</b> inches	l inches	TS mm	TPI
OMF126-X1	1	HCS	1-1/4	2	1.8	18
OMF160-X1	1	BIM	1-1/4	2	1.4	20
OMF221-X1	1	BIM	2	2	1.4	18
OMF230-X1	1	HCS	2-9/16	1-9/16	1.8	14



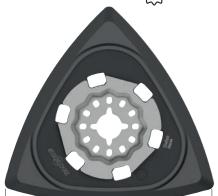
8 Sets in End-cap display (minimum 8 pieces or multiple)



134



# OMF136 STARLOCK



# **DELTA SANDING PLATE** 3-11/16" - VELCRO® - MULTI-MATERIALS

### **MULTI-MATERIALS**



ORDER NO. STARLOCK®	Pack Quantity	W inches	inches	TS inches	TPI Teeth Per Inch	8
OMF136-X1	1 in clamshell	3-11/16	-	-	-	20

### **OMA30000**

3-11/16"-



# **DELTA FLEECE** 3-5/8" - VELCRO® - MULTI-MATERIALS







Paint/Varnish					
N	4				



**MULTI-MATERIALS** 

ORDER NO.	Pack Quantity	W inches	8
OMA30000-X4	4 in clamshell	3-5/8	10

### **OMA30**



# **DELTA SANDING SHEETS** 3-5/8" - VELCRO® - WOOD





# WOOD



ORDER NO.	<b>Раск</b> Quantity	W inches	GRIT	8
OMA30040-X10	10 in clamshell	3-5/8	40	10
OMA30060-X10	10 in clamshell	3-5/8	60	10
OMA30080-X10	10 in clamshell	3-5/8	80	10
OMA30100-X10	10 in clamshell	3-5/8	100	10
OMA30120-X10	10 in clamshell	3-5/8	120	10
OMA30180-X10	10 in clamshell	3-5/8	180	10
OMA30240-X10	10 in clamshell	3-5/8	240	10



#### THE RIGHT BLADE FOR THE BEST RESULTS!

Quick reference charts and pictograms help you choose the right blade for your application.

### WOOD



# **WOOD&METAL**



### **MULTI-MATERIALS**



# MASONRY

































Einhell Mastercraft



This tool mount also enables the accessory to be repositioned in 30-degree steps.

#### ARBOR FOR FEIN® SUPERCUT AND FESTOOL® VECTURO® -







SuperCut (Before 03/2016)



This tool mount also enables the accessory to be repositioned in 30-degree steps.



#### **UNIVERSAL ADAPTORS**

This universal adaptor permits easy attachment of CMT accessories (OMM line) to most multi-cutter tools. Fits snugly and does not slip. Ideal for BOSCH®, CHICAGO®, CRAFTSMAN®, DREMEL®, FEIN®, MAKITA®, MILWAUKEE®, MASTERCRAFT®, OZITO®, AEG®, RIDGID®, ROCKWELL®, SMART®, WORX®.

ORDER NO.	<b>Pack</b> Quantity		
OMA31-X2	2 in clamshell	10	

**BACK** 



# OMM01



### **OMS01**

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



#### **PLUNGE & FLUSH-CUT BLADE**

3/8" - HCS - WOOD













**WOOD** 







ORDER NO. Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	inches	TPI	5
OMM01-X1	OMS01-X1	1 in clamshell	3/8	1-1/8	18	1



Arbor for FEIN® SuperCut FESTOOL® VECTURO®



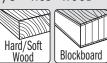
#### **PLUNGE & FLUSH-CUT BLADE**

7/8" - HCS - WOOD

19 6

OMM02-X1

OMM02-X5







# **WOOD**





Silfo	
ORDER NO. Universal Arbor	ORDER NO Arbor for FEIN® S
Olliveibul Albol	Alboi for Felix O

ORDER NO.  Arbor for FEIN® Supercut	<b>Pack</b> Quanti
OMS02-X1	1 in clan
OMS02-X5	5 in clan

<b>Pack</b> Quantity	<b>W</b> inches	l inches	TPI	
clamshell	7/8	1-7/8	18	10
clamshell	7/8	1-7/8	18	5

### OMM03

**→** 7/8″ <del>|</del> →

Universal Arbor

1-7/8"

Arbor for FEIN® SuperCut FESTOOL® VECTURO®

OMS03



#### **PLUNGE & FLUSH-CUT BLADE**

1-1/8" - HCS - WOOD

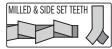








# **WOOD**









<b>ORDER NO.</b> Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	I inches	TPI	8
OMM03-X1	OMS03-X1	1 in clamshell	1-1/8	1-7/8	18	10
OMM03-X50		50 bulk masterpack	1-1/8	1-7/8	18	2

# OMM04

1-1/8"



1-5/8" 1-5/16"



#### **PRECISION CUT BLADE - JAPANESE TOOTHING**

1-5/16" - HCS - WOOD









# **WOOD**









<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	inches	TPI	
OMM04-X1	OMS04-X1	1 in clamshell	1-5/16	1-5/8	14	10
OMM04-X5		5 in clamshell	1-5/16	1-5/8	14	5
OMM04-X50		50 bulk masterpack	1-5/16	1-5/8	14	2

#### OMM05 **OMS05**

1-5/8"

Universal Arbor

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



### **PLUNGE & FLUSH-CUT BLADE**

1-5/16" - BIM8%Co - WOOD









# **WOOD**





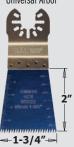
ORDER	NO.

ı	$\frac{1}{2}$

ORDER NO. Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TPI	
OMM05-X1	OMS05-X1	1 in clamshell	1-5/16	1-5/8	18	10
OMM05-X5	OMS05-X5	5 in clamshell	1-5/16	1-5/8	18	5
OMM05-X50		50 bulk masterpack	1-5/16	1-5/8	18	2

1-5/16"

Universal Arbor





#### **PRECISION CUT BLADE - JAPANESE TOOTHING**

1-3/4" - HCS - WOOD









# **WOOD**







OMS06

ORDER NO. Universal Arbor  Pack Quantity		W inches	I inches	TPI	
OMM36-X5 5 in clamshell		1-3/4	2	14	5
OMM36-X50	50 bulk masterpack	1-3/4	2	14	2

### **OMM06**

Universal Arbor





# **PRECISION CUT BLADE - JAPANESE TOOTHING**

2-11/16" - HCS - WOOD













**WOOD** 

GROUND & SIDE SET TEETH

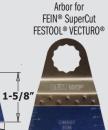


<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TPI	8
OMM06-X1	OMS06-X1	1 in clamshell	2-11/16	1-5/8	14	10
OMM06-X5		5 in clamshell	2-11/16	1-5/8	14	5
OMM06-X50		50 bulk masterpack	2-11/16	1-5/8	14	2

# OMM07

2-11/16"

Universal Arbor



#### **PRECISION CUT BLADE - JAPANESE TOOTHING**

2-11/16" - BIM8%Co - WOOD









# WOOD







ODDED NO

<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TPI	
OMM07-X1	OMS07-X1	1 in clamshell	2-11/16	1-5/8	18	10
OMM07-X5		5 in clamshell	2-11/16	1-5/8	18	5
OMM07-X50		50 bulk masterpack	2-11/16	1-5/8	18	2



# **OMM08**

Universal Arbor



### **OMS08**

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



#### **RADIAL BLADE - SEGMENTED**

3-7/16" - HCS - WOOD



















_	1				
<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	TPI	
OMM08-X1	OMS08-X1	1 in clamshell	3-7/16	18	10

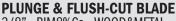
### OMMO9

Universal Arbor



Arbor for FEIN® SuperCut FESTOOL® VECTURO®





3/8" - BIM8%Co - WOOD&METAL



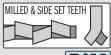








# **WOOD&METAL**









<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TPI	
OMM09-X1	OMS09-X1	1 in clamshell	3/8	1-1/8	18	10
OMM09-X5	OMS09-X5	5 in clamshell	3/8	1-1/8	18	5
OMM09-X50		50 bulk masterpack	3/8	1-1/8	18	2

3/8"



Arbor for FEIN® SuperCut FESTOOL® VECTURO®



### **PLUNGE & FLUSH-CUT BLADE**

7/8" - BIM8%Co - WOOD&METAL



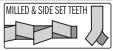








# **WOOD&METAL**









ORDER NO. Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	inches	TPI	8
OMM10-X1		1 in clamshell	7/8	1-7/8	18	10
OMM10-X5	OMS10-X5	5 in clamshell	7/8	1-7/8	18	5

# OMM11

Universal Arbor



# Arbor for FEIN® SuperCut



#### **PLUNGE & FLUSH-CUT BLADE** 1-1/8" - BIM8%Co - WOOD&METAL



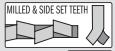








# **WOOD&METAL**









<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TPI	
OMM11-X1	OMS11-X1	1 in clamshell	1-1/8	1-7/8	18	10
OMM11-X5	OMS11-X5	5 in clamshell	1-1/8	1-7/8	18	5
OMM11-X50		50 bulk masterpack	1-1/8	1-7/8	18	2



#### **OMM12 OMS12**

Universal Arbor Arbor for FEIN® SuperCut FESTOOL® VECTURO® 1-5/8" 1-5/16"

### **PLUNGE & FLUSH-CUT BLADE**

1-5/16" - BIM8%Co - WOOD&METAL

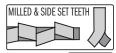








# WOOD&METAL





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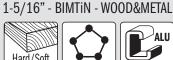
<b>ORDER NO.</b> Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Pack</b> Quantity	<b>W</b> inches	l inches	TPI	8
OMM12-X1	OMS12-X1	1 in clamshell	1-5/16	1-5/8	18	10
OMM12-X5	OMS12-X5	5 in clamshell	1-5/16	1-5/8	18	5
OMM12-X50		50 bulk masterpack	1-5/16	1-5/8	18	2

# OMM13









**PLUNGE & FLUSH-CUT BLADE** 







# **WOOD&METAL**





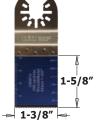




<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	l inches	TPI	8
OMM13-X1	OMS13-X1	1 in clamshell	1-5/16	1-5/8	18	10
OMM13-X5		5 in clamshell	1-5/16	1-5/8	18	5
OMM13-X50		50 bulk masterpack	1-5/16	1-5/8	18	2

#### **OMM14 OMS14**





Arbor for FEIN® SuperCut FESTOOL® VECTURO®



### **PLUNGE & FLUSH-CUT BLADE**

1-3/8" - CARBIDE TIPPED - WOOD&METAL











# **WOOD&METAL**







139





1000	
<b>ORDER NO.</b> Universal Arbor	ORDER NO. Arbor for FEIN® Super

OMM14-X1	OMS14-X1
<b>ORDER NO.</b> Universal Arbor	ORDER NO. Arbor for FEIN® Super

000		
<b>DER NO.</b> ersal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	

ORDER NO. bor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	l inches	TPI	8
OMS14-X1	1 in clamshell	1-3/8	1-5/8	20	10

# OMM35 Universal Arbor Arbor for FEIN® SuperCut FESTOOL® VECTURO® 2-11/16" 1-5/8"

LONG

# **PLUNGE & FLUSH-CUT BLADE**

1-5/8" - BIM8%Co - WOOD&METAL











# **WOOD&METAL**









000						
<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	I inches	TPI	8
OMM35-X5	OMS35-X5	5 in clamshell	1-5/8	2-11/16	18	5
OMM35-X50		50 bulk masterpack	1-5/8	2-11/16	18	2



#### OMM15 **OMS15**

Universal Arbor 1-7/8"

÷1-3/4″⇔

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



# **PLUNGE & FLUSH-CUT BLADE**

1-3/4" - BIM8%Co - WOOD&METAL

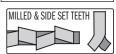








# WOOD&METAL









ORDER NO. Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	l inches	TPI	
OMM15-X1	OMS15-X1	1 in clamshell	1-3/4	1-7/8	18	10
OMM15-X5		5 in clamshell	1-3/4	1-7/8	18	5
OMM15-X50		50 bulk masterpack	1-3/4	1-7/8	18	2

# OMM16

Universal Arbor



Arbor for FEIN® SuperCut FESTOOL® VECTURO®



### **PLUNGE & FLUSH-CUT BLADE**

1-3/4" - BIMTIN - WOOD&METAL



ORDER NO.

**OMM16-X1** 

OMM16-X5

OMM16-X50





ORDER NO.

Arbor for FEIN® Supercut

OMS16-X1



PACK

**Ouantity** 

1 in clamshell

5 in clamshell

50 bulk masterpack



W

inches

1-3/4

1-3/4

1-3/4

# WOOD&METAL









	LIF	= LONGER L
inches	TPI	
1-7/8	18	10
1-7/8	18	5

18

#### OMM17 Universal Arbor



# **OMS17**

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



### **RADIAL BLADE - SEGMENTED**

3-7/16" - BIM8%Co - WOOD&METAL











1-7/8



2









OMM17-X1	OMS17-X1
<b>ORDER NO.</b> Universal Arbor	ORDER NO. Arbor for FEIN® Supp
3	

ORDER NO
Arbor for FFIN® Sur

	<b>Раск</b>
percut	Quantity

1 in clamshell

	W
,	inches

3-7/16

**TPI** 

20



#### OMM18 Universal Arbor



140

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



# RADIAL BLADE - SEGMENTED

3-7/16" - BIMTIN - WOOD&METAL

















10



**0MM18-X1** 



ORDER NO. Arbor for FEIN® Supe

OMS18-X1

ercut	<b>Раск</b> Quantity	W inches	TPI	
	1 in clamshell	3-7/16	20	



**MULTI-MATERIALS** 

**MULTI-MATERIALS** 

**MULTI-MATERIALS** 

# **OMM19**

Universal Arbor



# **OMS19**

RIGID SCRAPER BLADE 2-1/16" - HCS - MULTI-MATERIALS











ORDER NO. Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	I inches	
OMM19-X1	OMS19-X1	1 in clamshell	2-1/16	1	10
OMM19-X5	OMS19-X5	5 in clamshell	2-1/16	1	5

### OMM20



Arbor for FEIN® SuperCut



#### **FLEXIBLE SCRAPER**

2-1/16" - HCS - MULTI-MATERIALS







)

ORDER NO. Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	Pack Quantity	W	l inches	8
OMM20-X1	OMS20-X1	1 in clamshell	2-1/16	1-3/4	10
OMM20-X5	OMS20-X5	5 in clamshell	2-1/16	1-3/4	5

# **OMM21**

Universal Arbor







#### **SHARP CORNER SCRAPER**

1-1/8" - HCS - MULTI-MATERIALS









<b>ORDER NO.</b> Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Раск</b> Quantity	<b>W</b> inches	<b>I</b> inches	8
OMM21-X1	OMS21-X1	1 in clamshell	1-1/8	2	10
0MM21-X5	OMS21-X5	5 in clamshell	1-1/8	2	5
OMM21-X50		50 bulk masterpack	1-1/8	2	2

# **OMM22**

Universal Arbor



#### OMS22 Arbor for

FEIN® SuperCut FESTOOL® VECTURO®



#### **RADIAL BLADE - SEGMENTED**

3-7/16" - CARBIDE GRIT - MASONRY



















<b>ORDER NO.</b> Universal Arbor	<b>ORDER NO.</b> Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	K inches	8
OMM22-X1	OMS22-X1	1 in clamshell	3-7/16	5/64	10







**OMS23** 

Arbor for FEIN® SuperCut FESTOOL® VECTURO®

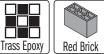
#### **RADIAL BLADE - SEGMENTED**

3-7/16" - DIAMOND GRIT - MASONRY



















	(	
-		

ORDER NO. Universal Arbor	ORDER NO. Arbor for FEIN® Supercut	<b>Раск</b> Quantity	W inches	<b>K</b> inches	8
OMM23-X1	OMS23-X1	1 in clamshell	3-7/16	1/16	10
	OMS23-X25	25 in masterpack	3-7/16	1/16	2

OMM24 Universal Arbor



Arbor for FEIN® SuperCut FESTOOL® VECTURO®



#### **RADIAL BLADE - SEGMENTED**

2-9/16" - CARBIDE GRIT - MASONRY











**MASONRY** 







ORDER NO. Universal Arbor
OMM24-X1

ORDER NO.
Arbor for FEIN® Supercut
OMS24-X1

<b>Pack</b> Quantity	<b>W</b> inches	<b>K</b> inches
1 in clamshell	2-9/16	1/16







OMS27

Arbor for FEIN® SuperCut FESTOOL® VECTURO®



#### **RADIAL BLADE - SEGMENTED**

2-9/16" - DIAMOND GRIT - MASONRY















MASONRY









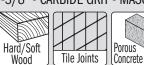
ORDER NO. PACK W K						
Universal Arbor					<b>K</b> inches	
<b>OMM27-X1 OMS27-X1</b> 1 in clamshell 2-9/16 5/64 10	OMM27-X1	0MS27-X1	1 in clamshell	2-9/16	5/64	10

# Universal Arbor



# FINGERTIP RASP - DOUBLE-SIDED

1-3/8" - CARBIDE GRIT - MASONRY



® Brand names mentioned in CMT products are the property of their respective owners (see page 376)



















ORDER NO.	Раск	w	1	
Universal Arbor	Quantity	inches	inches	A
OMM26-X1	1 in clamshell	1-3/8	1-3/8	10







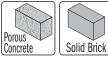
3-1/8" - CARBIDE GRIT - MASONRY





















ORDER NO.	<b>Раск</b>	W	8
Universal Arbor	Quantity	inches	
OMM25-X1	1 in clamshell	3-1/8	10

### OMM28 Universal Arbor

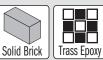




2-1/4" - DIAMOND GRIT - MASONRY















Marble Joints



**MASONRY** 



<b>ORDER NO.</b> Universal Arbor	<b>Раск</b> Quantity	<b>W</b> inches	<b>K</b> inches	
OMM28-X1	1 in clamshell	2-1/4	5/64	10
OMM28-X25	25 in masterpack	2-1/4	5/64	4

### **OMM29**

Universal Arbor



Arbor for FEIN® SuperCut



### **GROUT AND MORTAR REMOVER**

2-9/16" - CARBIDE GRIT - MASONRY

















OMM29-X1









Quantity

1 in clamshell

Pair	nt Removal
W inches	宋

10

2-9/16



**MASONRY** 

### OMM30 Universal Arbor



### **DELTA SANDING PLATE - PERFORATED**

3-5/8" - MULTI-MATERIALS



000			
<b>ORDER NO.</b> Universal Arbor	<b>Раск</b> Quantity	W inches	(
OMM30-X1	1 in clamshell	3-5/8	





143

DELTA POLISHING FLEECE PERFORATED 3-5/8"



SEE PAGE 134

**OMA30** 

10

ALUMINIUM-OXIDE DELTA SANDPAPER - PERFORATED 3-5/8" - W00D







**WOOD WOOD&NAILS** 

8 Sets in End-cap display (minimum 8 pieces or multiple)



8 Sets in End-cap display (minimum 8 pieces or multiple)



**OMM-X4** 

ORDER NO. UNIVERSAL ARBOR	<b>PACK</b> Quantity	ORDER NO. UNIVERSAL ARBOR	<b>PACK</b> Quantity	MATERIAL	W inches	I inches	TPI
OMM04-X1	1	OMM04-X1	4	HCS	1-3/8	1-5/8	14
OMM06-X1	1	OMM06-X1	4	HCS	2-11/16	1-5/8	14
OMM12-X1	1	OMM12-X1	4	BIM	1-1/4	1-5/8	18
OMM15-X1	1	OMM15-X1	4	BIM	1-3/4	1-7/8	18

**OMM-X16** 

2 blades with Japanese Toothing for cutting wood, chipboard, plasterboard and plastics.

2 blades in BIM for cutting wood products, chipboard, plasterboard, fiberglass, epoxy resins, soft plastics, sheet metal, aluminum pipes and profiles. Cuts through embedded nails in wood up to 5mm in diameter as well as porous concrete.

### **OMM-X33**



- Blades for cutting wood, plastic, plasterboard, sheet metal, profiles and pipes in aluminum and copper.
- Scraper to remove carpet adhesive/glue residues as well as paint and silicone residues.
- Sanding pad and sanding sheets (60, 100, 180 grit).

ORDER NO. UNIVERSAL ARBOR	<b>Pack</b> Quantity	<b>W</b> inches	I inches	TPI	GRIT
OMM12-X1	1	1-1/4	1-5/8	18	
OMM20-X1	1	2-1/16	1-3/4		
OMM30-X1	1	3-5/8			
OMA30060-X10	10	3-5/8			60
OMA30100-X10	10	3-5/8			100
OMA30180-X10	10	3-5/8			180

**6 Sets Masterpack** 

### WHAT'S THE SECRET TO FLAWLESS EDGE PROFILES WITH NO REWORK?



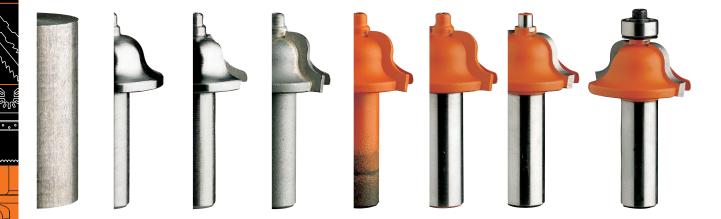






### **BUILDING THE WORLD'S FINEST CUTTING TOOLS**

We built our foundations and reputation for high quality tools on the craftsman-like manufacturing of boring bits and router bits. Times have changed and current technology has completely altered the industry. As a result, our facilities have been newly renovated and our equipment today represents the most advanced technology available on the market. This allows us to continue to manufacture cutting tools with the skill and care that we always have.



### DESIGN

We engineer all of our products with a purpose in mind. Years of developing high performance cutting tools means that our top-sellers are tried and true, the result of continued perfection of each design, but we don't stop there: new materials, new profiles and new methods continue to emerge everyday.

At CMT, our objective is to remain on the cutting edge of innovation so our technical department ensures to continually monitor market developments, incorporate state-of-the-art software and apply experience in the sector to designs tools that are worthy of the CMT brand.

# 

### **MATERIALS**

Essentially, the main components of a router bit are just two: steel and carbide. If either of these is less than the best, the tool we make will show it.

We've researched steel and carbide since the beginning, and found exactly what we were looking for:

Superior Steel. Our steel is comes from right above the border in Switzerland where an exclusive hot drawing process is applied to forge the solid bar stock we use to manufacture our shanks and bodies.

The result? Steel that is superior in strength and exceptionally resistant to fatigue and abrasion.





High-Grade Tungsten Carbide. If steel is what gives our tools strength, carbide is what gives them intelligence. The capacity of the carbide tip to cut precisely and to last a long time is critical for the performance of any tool, so at CMT we use only premium micrograin carbide from Luxembourg to make the tips for our router bits.

### **MANUFACTURING**

Turning, Milling and Cutting. Our biggest investment in recent years has been in upgrading production. Today, all machinery at CMT is fully automated. CNC machines run by specially trained operators who make sure that the shanks and bodies of our router bits and boring bits are accurate and perfectly balanced.



Heat Forged Steel Bodies for Large Diameter Bits. No router bits are exactly the same, sometimes not even in the way they are made. Certain bits require a few more steps than others, like heat forging the steel of larger diameter bits before turning it down into precise bit bodies. This extra step produces a radial grain orientation which gives large diameter bits extra strength and durability.

Brazing. We have pioneered the art of brazing. Not only does our unique custom-designed computerized brazing equipment help eliminate the inconsistencies found in old fashioned hand brazing, but our silver-copper-silver brazing 'sandwich' provides a tight bond between the steel and the carbide, with a shock absorbing effect to protect the carbide tips when cutting harder woods.

### Specially Formulated Carbide for Specific Applications.

You have to cut every kind material, so we make sure that our carbide tips can handle each individual job. This means specially formulating the carbide of each tool so that the compositions vary from being super hard (for tough cutting jobs like laminates) to being less hard (to absorb the impact when cutting large profiles) and everything in between.

Grinding and Sharpening. The final step in the production process is no different from the rest: sharpening and grinding are done to extreme precision on multi-axis CNC machines. Each bevel and angle is ground or sharpened to the micron, to produce a cutting edge that is both razor sharp yet extremely durable.



680°C in seconds - and the brazing is complete.

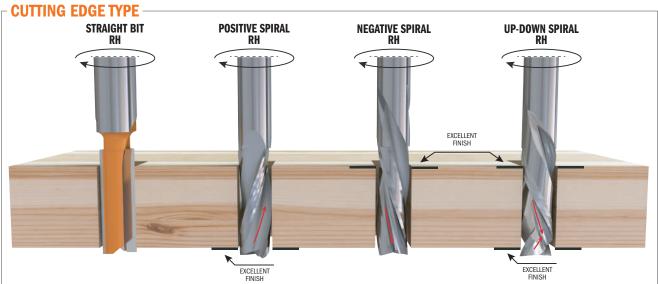
### **QUALITY CONTROL**

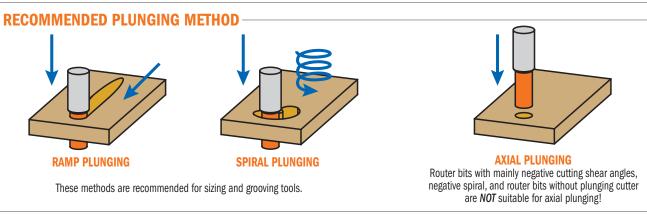
Even the simplest of tasks can include a margin for error. However at CMT, we take measures to prevent this. We always manually check the quality of our tools at each step of the manufacturing process, and we still make test cuts with rail & stile bits to make sure the cut fits. However, now we also use a fully automatic measuring process that evaluates every part of the tool without actually coming into contact with it, to make sure that the tool dimensions are accurate and that the profiles conform precisely to technical specification. We also use this system to gauge the wear and tear on the CNC machines.

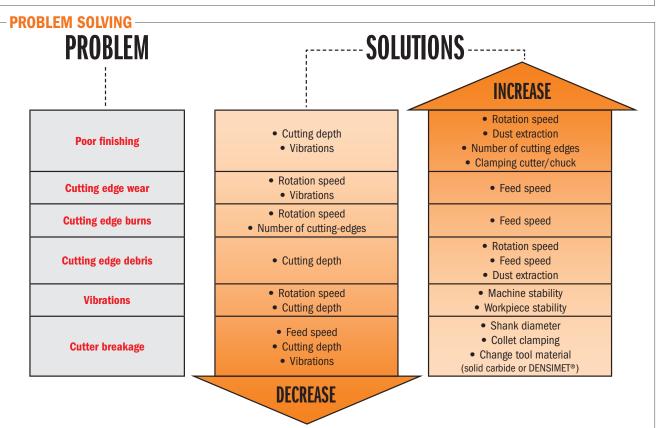


CMT's fully automatic measuring system.









### **DLCS Chrome Coating Solid Carbide Upcut & Downcut Spiral Bits**



SOUD T2+2 RH



### 190.41 COMPRESSION UPCUT & DOWNCUT 2+2-EDGE

<b>ORDER NO.</b> Right-hand rotation	8	inches	<b>D</b> mm	<b>I</b> inches	In Pos.	L inches	<b>S</b> inches
190.504.41	10	3/8	9.52	1-1/8	9/32	3	3/8
190.505.41	10	1/2	12.7	1	15/32	3	1/2
190.506.41	10	1/2	12.7	1-1/8	15/32	3	1/2
190.507.41	10	1/2	12.7	1-3/8	15/32	3-1/2	1/2
190.508.41	10	1/2	12.7	1-5/8	15/32	4	1/2

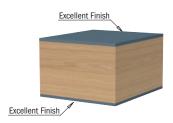
190.41	COMPRES	SSION UPCL	IT & DOWNO	:UT 3+3-EDGE	CAKRINE 10	. J IVII	<b>DOWN</b>
<b>ORDER NO.</b> Right-hand rotation	8	inches	) mm	inches	Inches	<b>L</b> inches	<b>S</b> inches
190.813.41	10	3/8	9.52	1	13/64	3	3/8
190.815.41	10	1/2	12.7	1-1/8	1/4	3	1/2

### 190\_41 MORTISE COMPRESSION LIPCUT & DOWNCUT 2+2-EDGE

	MONTIOL	OWITINESSION	UFCUI & DUN	ווונטו ביב-בטטו	OTHER DE		<u> </u>
ORDER NO. Right-hand rotation	邻	inches	) mm	I inches	In Pos.	L inches	S inches
190.513.41	10	3/8	9.52	7/8	3/16	3	3/8
190.515.41	10	1/2	12.7	7/8	13/64	3	1/2
190.517.41	10	1/2	12.7	1-3/8	13/64	3-1/2	1/2

### Solid Carbide Upcut & Downcut Spiral Bits





### 190 COMPRESSION UPCUT & DOWNCUT 2+2-EDGE

ORDER NO.	8	inches	)	l inches	I <sub>1</sub> Pos.	L inches	S inches
Right-hand rotation 190.008.11	10	1/4	mm 6.35	inches 7/8	9/32	2-1/2	1/4
190.504.11	10	3/8	9.52	1-1/8	9/32	3	3/8
190.505.11	10	1/2	12.7	1	15/32	3	1/2
190.506.11	10	1/2	12.7	1-1/8	15/32	3	1/2
190.507.11	10	1/2	12.7	1-3/8	15/32	3-1/2	1/2
190.508.11	10	1/2	12.7	1-5/8	15/32	4	1/2

### 190 COMPRESSION UPCUT & DOWNCUT 3+3-EDGE

ORDER NO. Right-hand rotation	8	inches	) mm	l inches	In Pos.	L inches	<b>S</b> inches
Rigitt-fiditu fotation		IIICHES	mm	IIICHES	IIICHES	IIICHES	IIICHES
190.813.11	10	3/8	9.52	1	13/64	3	3/8
190.815.11	10	1/2	12.7	1-1/8	1/4	3	1/2

### 190 MORTISE COMPRESSION UPCUT & DOWNCUT 2+2-EDGE

<b>190</b> MORTIS	E COMPRI	ESSION UPCL	JT & DOWN(	CUT 2+2-EDGE	SOLID CARBIDE T2	+2 <b>RH</b>	UP DOWN
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	l inches	In Pos.	<b>L</b> inches	<b>S</b> inches
190.513.11	10	3/8	9.52	7/8	3/16	3	3/8
190.515.11	10	1/2	12.7	7/8	13/64	3	1/2
190.517.11	10	1/2	12.7	1-3/8	13/64	3-1/2	1/2

### **TECHNICAL DETAILS:**

- Premium quality super-micrograin carbide
- 2+2 spiral cutting edges [T2+2]. 3+3 spiral cutting edges [T3+3].
- Provides excellent finish on both top and bottom sides of the workpiece.

### APPLICATION:

for an excellent edge finish on the top and bottom sides of laminates and double sided melamine. Can also be used with hardwoods and other wood and plastic composites. For fast feed rates on CNC routers, machining centers and point to point machines for ripping, panel sizing, template routing and other routing applications.

SOLID T3+3 RH

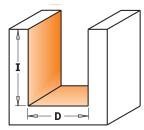


SOLID T2 RH



### **191**

ORDER NO. Right-hand rotation		inches	mm	l inches	<b>L</b> inches	<b>S</b> inches
191.001.11	10	1/8	3.18	1/2	2	1/4
191.003.11	10	5/32	3.97	1/2	2	1/4
191.005.11	10	3/16	4.76	3/4	2	1/4
191.007.11	10	1/4	6.35	3/4	2	1/4
191.008.11	10	1/4	6.35	1	2-1/2	1/4
191.501.11	10	5/16	7.94	1	3	1/2
191.503.11	10	3/8	9.52	1-1/4	3-1/4	1/2
191.505.11	10	1/2	12.7	1-1/4	3	1/2
191.506.11	10	1/2	12.7	1-1/2	3-1/2	1/2
191.507.11	10	1/2	12.7	2	4	1/2



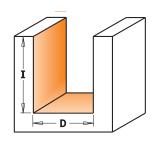


### Solid Carbide Downcut 2-Edge Spiral Bits



192				SOLII Carbii	T2 RH	
ORDER NO. Right-hand rotation	8	inches	mm	inches	L inches	inc

ORDER NO.	A	I	)	I	L	S
Right-hand rotation		inches	mm	inches	inches	inches
192.001.11	10	1/8	3.18	1/2	2	1/4
192.003.11	10	5/32	3.97	1/2	2	1/4
192.005.11	10	3/16	4.76	3/4	2	1/4
192.007.11	10	1/4	6.35	3/4	2	1/4
192.008.11	10	1/4	6.35	1	2-1/2	1/4
192.501.11	10	5/16	7.94	1	3	1/2
192.503.11	10	3/8	9.52	1-1/4	3-1/4	1/2
192.505.11	10	1/2	12.7	1-1/4	3	1/2
192.506.11	10	1/2	12.7	1-1/2	3-1/2	1/2
192.507.11	10	1/2	12.7	2	4	1/2
10 PCS. IN MASTER	RPACK					
192.008.11-X10		1/4	6.35	1	2-1/2	1/4
192.501.11-X10		5/16	7.94	1	3	1/2
192.505.11-X10		1/2	12.7	1-1/4	3	1/2

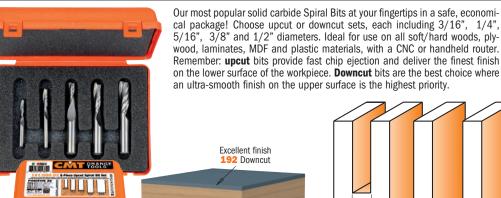




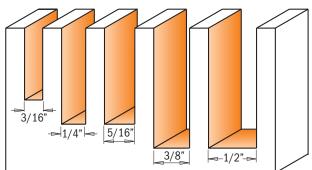


### 5-piece Solid Carbide Spiral Bit Sets









Drawing is 1:1 scale

### **191.000.02** UPCUT 2-EDGE SPIRAL BITS

Excellent finish /

**191** Upcut

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	inches	<b>D</b>	I inches	L inches	<b>S</b> inches
191.005.11		3/16	4.76	3/4	2	1/4
191.008.11		1/4	6.35	1	2-1/2	1/4
	191.501.11	5/16	7.94	1	3	1/2
	191.503.11	3/8	9.52	1-1/4	3	1/2
	191.505.11	1/2	12.7	1-1/4	3	1/2

### 192.000.02 DOWNCUT 2-EDGE SPIRAL BITS

ORDER NO. S=Ø1/4" shank	ORDER NO. S=01/2" shank	inches	<b>D</b>	I inches	L inches	<b>S</b> inches
192.005.11		3/16	4.76	3/4	2	1/4
192.008.11		1/4	6.35	1	2-1/2	1/4
	192.501.11	5/16	7.94	1	3	1/2
	192.503.11	3/8	9.52	1-1/4	3	1/2
	192.505.11	1/2	12.7	1-1/4	3	1/2

### 3-piece Plywood Groove Sets



These groove bits are specifically designed to rout grooves and dadoes for joints in plywood. This means they match the true thickness of the material, producing tight, accurate joints. Use our 23/32" bit for 3/4" plywood, 31/64" bit for 1/2" plywood and our 15/64" bit for 1/4" plywood. No gaps. No sloppy joints. No worries! These money-saving 3-bit sets are available with 1/2" or 1/4" shanks.

### **EXAMPLE SHOWN IN 1/2" THICK PLYWOOD** -

This joint is made with the CMT 31/64" straight bit in 1/2" plywood. Notice the precise fit - no gaps.





This joint is made with a regular 1/2" straight bit in 1/2" plywood. Notice the extra space and ill fitting joint.

### 811.001.11

ORDER NO. S=01/4" shank	<b>D</b> inches mm		I inches
• 811.060.11	15/64	6	5/8
811.123.11	31/64	12.3	1
811.182.11	23/32	18.2	1
	\$=01/4" shank • 811.060.11 811.123.11	<b>S=01/4"</b> shank inches <b>• 811.060.11</b> 15/64 <b>811.123.11</b> 31/64	s=01/4" shank         inches         mm           • 811.060.11         15/64         6           811.123.11         31/64         12.3

### 211 501 11

1,	/2"	Sha	ınk

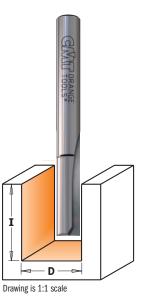
1/4" Shank

			1/2	Silalik
SET	ORDER NO.	D		I
CONTAINS	S= <b>Ø1/2"</b> shank	inches	mm	inches
Straight bit	• 811.560.11	15/64	6	3/4
Straight bit	811.623.11	31/64	12.3	1
Straight bit	811.682.11	23/32	18.2	1

Solid Carbide

15/64"	31/64"	<b>23/32"</b> →	





• Solid Carbide \*T1

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	<b>D</b> mm	I inches	L inches	APPLICATION
• 811.020.11*		10		2	5/32	1-3/4	
• 811.030.11		10		3	5/16	1-3/4	
• 811.032.11		10	1/8	3.2	3/8	1-3/4	
• 811.040.11		10	5/32	4	3/8	1-3/4	Bit for biscuits
• 811.047.11		10	3/16	4.75	1/2	2	
• 811.050.11		10		5	15/32	2	
• 811.060.11		10	15/64	6	5/8	2	Ply-Groove Bit
	• 811.560.11	10	15/64	6	3/4	2-1/2	Ply-Groove Bit
• 811.064.11		10	1/4	6.35	3/4	2	
• 811.065.11		10	1/4	6.35	3/4	2-1/4	For Incra Jig
	• 811.564.11	10	1/4	6.35	3/4	2-1/2	For Incra Jig
• 811.070.11		10	,	7	23/32	1-7/8	
• 811.080.11		10	5/16	7.94	3/4	2	
• 811.081.11		10	5/16	7.94	1	2-3/4	For Leigh Jig
	• 811.581.11	10	5/16	7.94	1	2-3/4	For Incra Jig
811.095.11		10	3/8	9.52	3/4	2	
811.096.11		10	3/8	9.52	1	2-1/2	For Incra Jig
	811.595.11	10	3/8	9.52	1	2-5/8	For Incra Jig
811.100.11		10	- / -	10	3/4	1-7/8	
	811.600.11	10		10	1	2-1/2	
811.120.11		10		12	3/4	2	
	811.620.11	10		12	1	2-1/2	
811.123.11		10	31/64	12.3	1	2-1/4	Plv-Groove Bit
	811.623.11	10	31/64	12.3	1	2-1/2	Ply-Groove Bit
811.127.11		10	1/2	12.7	3/4	2-1/4	,
	811.627.11	10	1/2	12.7	1	2-5/8	
	811.628.11	10	1/2	12.7	1-1/4	3	For Leigh Jig
811.140.11	<u> </u>	10	-, -	14	3/4	2	7 0. 20.8 0.8
811.142.11		10	9/16	14.2	9/16	2-1/4	
811.150.11		10	-,	15	3/4	2-1/4	
811.158.11		10	5/8	15.87	3/4	2-5/8	
	811.660.11	10	5/8	15.87	1	2-1/2	
811.160.11		10	-, -	16	3/4	2-1/4	
	811.661.11	10		16	1	2-1/2	
811.180.11		10		18	3/4	2	
811.182.11		10	23/32	18.2	1	2-1/4	Ply-Groove Bit
	811.682.11	10	23/32	18.2	1	2-1/2	Ply-Groove Bit
811.191.11		10	3/4	19.05	3/4	2-1/4	
	811.690.11	10	3/4	19.05	1	2-1/2	
	811.700.11	10	25/32	19.85	1	2-5/16	
811.200.11		10	,	20	3/4	2	
811.220.11		10		22	3/4	2-1/4	
811.254.11		10	1	25.4	3/4	2	
	811.754.11	10	1	25.4	1-1/4	3	
	811.785.11	10	1-1/8	28.57	1-1/4	3	
	1		· ·		•	1	1



























CMT's Straight Bits offer an array of features that define our top-quality tools: razor-sharp edges, special high-strength steel and the finest micrograin carbide. Built to withstand even the heaviest working conditions, CMT bits will continue to provide smooth, precise cuts everytime. Count on exceptional chip ejection for cleaner, more constant cutting. These bits feature our trademark orange P.T.F.E. Industrial Coating to guard against resin, pitch and other residue build-up. A variety of Straight Bits to choose from guarantees production at an industrial scale on a variety of materials

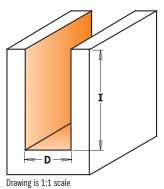
**SAFETY PRECAUTIONS:** never use damaged or worn bits. Always work at the recommended proper feed rate without forcing the bit. Pay particular attention when making the initial cut with a small diameter bit. For best results when working with small diameter bits, make the cut in more than one pass.

like plywood, composites and natural woods.

812







ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	I inches	L inches	APPLICATION
• 812.032.11		10	1/8	3.2	1/2	2	
• 812.060.11		10	15/64	6	1	2-3/8	
• 812.064.11		10	1/4	6.35	1	2-3/8	
• 812.080.11		10	5/16	7.94	1-1/4	2-3/8	
812.095.11		10	3/8	9.52	1-1/4	2-1/2	
	812.595.11	10	3/8	9.52	1-1/4	2-7/8	
812.100.11		10		10	1-1/4	2-3/8	
	812.600.11	10		10	1-1/4	2-3/4	
	812.611.11	10	7/16	11.1	1-1/4	3-1/4	For Leigh Jig
812.120.11		10		12	1-1/4	2-3/8	
	812.620.11	10		12	1-1/4	2-3/4	
	812.621.11	10		12	1-1/2	3-3/4	
812.127.11		10	1/2	12.7	1-1/4	2-3/4	
	812.627.11	10	1/2	12.7	1-1/2	3-3/4	
	812.628.11	10	1/2	12.7	2	4-1/4	
	812.629.11	10	1/2	12.7	2-1/2	4-3/8	
812.140.11		10		14	1-1/4	2-3/8	
812.150.11		10		15	1-1/4	2-5/8	
812.158.11		10	5/8	15.87	1-1/4	2-3/4	
812.160.11		10		16	1-1/4	2-5/8	
	812.660.11	10		16	1-1/4	2-3/4	
	812.690.11	10	3/4	19.05	1-1/2	3-1/4	
	812.691.11	10	3/4	19.05	2	3-5/8	
10 PCS. IN MASTE	RPACK						
911 006 11 Y10			2/2	0.52	1	2 1/2	

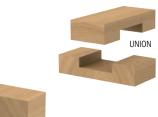


MORTISE AND TENON

T	812.564.11
15	812.564.11 812.581.11

	812.691.11	10	3/4	19.05	2	3-5/8				
10 PCS. IN MASTERPACK										
811.096.11-X10			3/8	9.52	1	2-1/2				
812.064.11-X10			1/4	6.35	1	2-3/8				
	812.627.11-X10		1/2	12.7	1-1/2	3-3/4				
	812.628.11-X10		1/2	12.7	2	4-1/4				
FOR INDUSTRIAL NESTING APPLICATION [T3] - DLCS CHROME LONG-LIFE COATING										
	• 812.564.11	10	1/4	6.35	1	2-7/8	For Nesting			
	• 812.581.11	10	5/16	7.94	1-1/8	3	For Nesting			
0 1110 111										







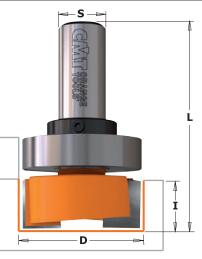






### **Mortising Bits**



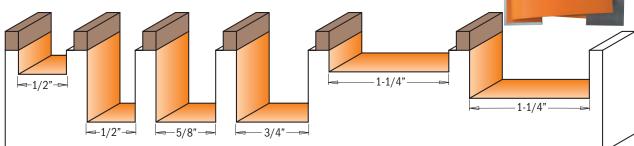


### 801B



Perfectly mortised hinges are the sign of a true artisan. These bits equipped with thick Tungsten carbide tips and negative shear angle design, guarantee flawless performance. Mortise perfect hinges with no splintered edges or rough bottoms. Mortising is a breeze on both natural wood and wood composites. Compatible with most mortising jigs. Complete with a top bearing guide, these bits are the perfect tool for sign making and template work.





Drawing is 1:1 scale

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank		<b>D</b> inches	mm	I inches	L inches			
801.128.11		10	1/2	12.7	1/4	1-5/8			
801.127.11		10	1/2	12.7	3/4	2-1/8			
	801.627.11	10	1/2	12.7	3/4	2-3/8			
801.158.11		10	5/8	15.87	3/4	2-1/4			
801.190.11		10	3/4	19.05	3/4	2-1/8			
	801.690.11	10	3/4	19.05	3/4	2-1/4			
	801.818.11	10	1-1/4	31.7	7/32	2-31/64			
801.317.11		10	1-1/4	31.7	1/2	1-57/64	_Spare parts		
	801.817.11	10	1-1/4	31.7	1/2	2-1/8			
WITH TOP BEARIN	G								
801.128.11B*		10	1/2	12.7	1/4	1-5/8	791.010.00	541.001.00	991.056.00
801.127.11B		10	1/2	12.7	3/4	2-1/8	791.010.00	541.001.00	991.056.00
801.158.11B		10	5/8	15.87	3/4	2-1/4	791.009.00	541.001.00	991.056.00
801.190.11B		10	3/4	19.05	3/4	2-1/8	791.004.00	541.001.00	991.056.00
	801.818.11B	10	1-1/4	31.7	7/32	2-31/64	791.015.00	541.002.00	991.056.00
	801.817.11B	10	1-1/4	31.7	1/2	2-1/8	791.015.00	541.002.00	991.056.00

<sup>\*</sup>Bit designed for Dado clean-out. For use on flooring medallions.







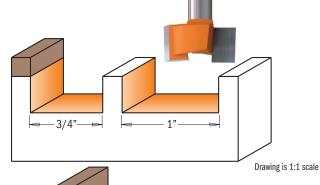




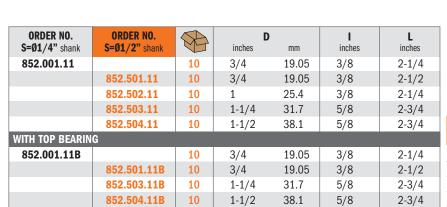




This bit is perfect for smoothing baseboard and rough surfaces. Tungsten carbide tips and downward shear angle provide exceptional performance and quality. This bit can be used to remove paint and enamel residues. Also available with bearing for projects requiring high precision.



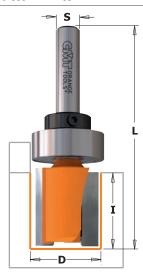
1-1/2"



1-1/4"

_ Spare parts		
791.004.00	541.001.00	991.056.00
791.011.00	541.002.00	991.056.00
791.015.00	541.002.00	991.056.00
791.020.00	541.002.00	991.056.00

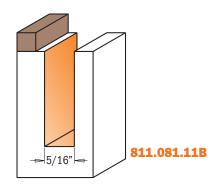


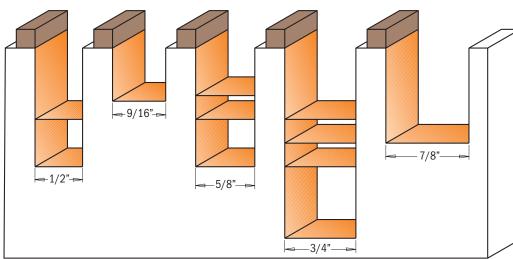


### 811B

These double-fluted bits paired with the template of your choice will produce distinctive cabinets, furniture pieces, signs, toys and personalize a variety of creative projects.

**SAFETY TIPS:** make sure your router is in top condition. The template must be securely fastened to the workpiece. When choosing a bit, carefully consider the thickness of the template and all the implications of the cut. Opt for the shortest bit possible for the project you are working on.





Drawing	is	1:1	scale

							_ Spare parts		
<b>ORDER NO. S=Ø1/4"</b> shank	<b>ORDER NO. S=Ø1/2"</b> shank	8	inches	mm	inches	L inches			
811.081.11B ■		10	5/16	7.94	1	2-3/4	791.010.00	541.001.00	991.056.00
811.127.11B		10	1/2	12.7	3/4	2-1/4	791.010.00	541.001.00	991.056.00
811.142.11B		10	9/16	14.2	9/16	2-1/4	791.009.00	541.001.00	991.056.00
811.159.11B		10	5/8	15.87	1/2	2-9/32	791.009.00	541.001.00	991.056.00
811.158.11B		10	5/8	15.87	3/4	2-5/8	791.009.00	541.001.00	991.056.00
811.191.11B		10	3/4	19	3/4	2-1/4	791.004.00	541.001.00	991.056.00
	811.690.11B	10	3/4	19	1	2-1/2	791.011.00	541.002.00	991.056.00
	811.222.11B*	10	7/8	22.2	1	2-5/8	791.021.00	541.006.00	991.056.00
812.127.11B		10	1/2	12.7	1-1/4	2-3/4	791.010.00	541.001.00	991.056.00
812.158.11B		10	5/8	15.87	1-1/4	2-3/4	791.009.00	541.001.00	991.056.00
	812.690.11B	10	3/4	19.05	1-1/2	3-1/4	791.011.00	541.002.00	991.056.00
	812.691.11B	10	3/4	19.05	2	3-5/8	791.011.00	541.002.00	991.056.00

Item with larger diameter bearing

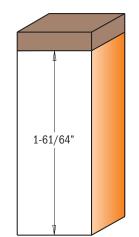
<sup>\*</sup>Ø3/8" shanks with Ø3/8"-1/2" bushings (799.001.00)



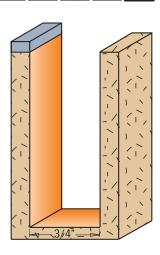
### 652B

Straight router bits with a replaceable knife fixed by a TORX® screw. An economical solution for specialized applications requiring low downtime. Cut up to 40mm in depth by carrying out several passes. Equipped with top bearing for template use. For routing, trimming and grooving in board materials (laminated chipboards, MDF) and hardwood. For use on portable routers.

### CORRECT KNIFE POSITIONING Press the knife against the seat and then tighten the screws.



Drawing is 1:1 scale



SAFETY TIPS:

The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).

ORDER NO.	SA	D		- 1	L	
<b>S=Ø1/2"</b> shank		inches	mm	inches	inches	
652.691.11B	10	3/4	19.05	1-61/64	3-61/64	-
652.787.11B	10	1-1/8	28.6	1-61/64	3-61/64	-

 Spare parts
 990.495.09
 990.072.00
 991.061.00
 791.011.00

 790.503.00\*
 990.076.00
 991.061.00
 791.027.00

\* 3 bore

652.691.11B [T1] 652.787.11B [T2]

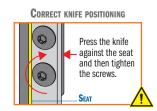
**Spare parts: 541.002.00** Ø1/2" stop collar **991.056.00** 1.5mm hex key

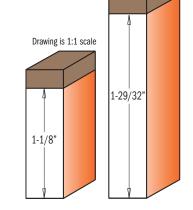
### Pattern Router Bits with Insert Knives for Laminates



### **656**

Straight router bits with a replaceable knife fixed by a TORX® screw. The top knife features a 3° sharpened angle for plunge and high precision cuts. Equipped with top bearing for template use. For finishing, routing and grooving in board materials (laminated chipboards, MDF) and hardwood. For use on portable routers.





	The <b>TW-006</b> Torque Screw for the proper fastening of sc	

ORDER NO.		п	)	1	ı	Spare parts
<b>S=Ø1/2"</b> shank	A	inches	mm	inches	inches	⊕ ⊕
656.691.11	10	3/4	19.05	1-1/8	3-1/8	790.283.12
656.693.11	10	3/4	19.05	1-29/32	3-15/16	790.483.12

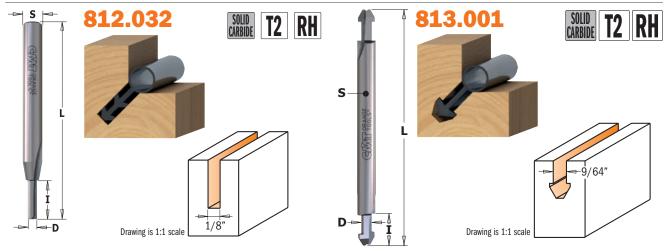
	⊕ ⊕			
	790.283.12	990.075.00	991.061.00	791.011.00
	790.483.12	990.075.00	991.061.00	791.011.00

**Spare parts: 541.002.00** Ø1/2" stop collar **991.056.00** 1.5mm hex key

SAFETY TIPS:

### Weatherseal Bits





Make your house more energy efficient by insulating old doors and windows. The CMT Weatherseal bit is the perfect bit to re-groove door and window frames to accommodate wind blocking inserts. Made of solid tungsten carbide for strength and endurance, these bits reach up to 12mm in depth without the risk of breakage.

Special double-sided design lets you save money by offering two tips in one bit; with the same features as the one-sided weatherseal bit. Only available with a 1/8" cutting diameter.

ORDER NO.	A	D	)	I	L
<b>S=Ø1/4"</b> shank		inches	mm	inches	inches
812.032.11	10	1/8	3.2	1/2	2

ORDER NO.	A	D	)	I	L
<b>S=Ø1/4"</b> shank		inches	mm	inches	inches
813.001.11	10	9/64	3.5	5/16	3

### Solid Carbide Combination Trimmer Bits



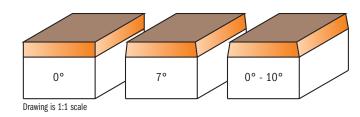
160



Work to your highest standards with CMT combination trimmer bits. Now you can cut, trim and bevel all laminates without having to change the bit. Achieve great results when making straight or angled cuts on both soft and hardwood.

Three popular sizes, each with carbide-tipped edges, guarantee efficient bevels and straight trimming (7° or combined 0°-10°).

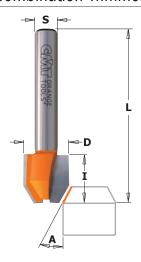
NOTICE: to be used with an edge, separate guide or fence.



ORDER NO. S=Ø1/4" shank	8	A	D inches mm		l inches	L inches
842.095.11	10	0°	1/4	6.35	3/8	1-1/2
843.063.11	10	7°	1/4	6.35	1/4	1-1/2
843.064.11	10	0° - 10°	1/4	6.35	3/8	1-1/2
50 PCS. IN MASTERP	ACK					
842.095.11-X50		0°	1/4	6.35	3/8	1-1/2
843.063.11-X50		7°	1/4 6.35		1/4	1-1/2





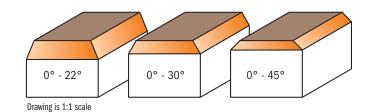






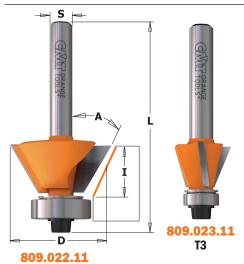
Work to your highest standards with the CMT combination trimmer bits. Now you can cut, trim and bevel all laminates without having to change the bit. Achieve great results when making straight or angled cuts on both soft and hardwood. Three popular sizes, each with carbide-tipped cutting edges for efficient bevel and straight trimming.

NOTICE: to be used with an edge, separate guide or fence.



ORDER NO. S=Ø1/4" shank	8	A	inches	mm	I inches	L inches
821.022.11	10	0° - 22°	15/32	11.9	1/2	1-3/4
821.030.11	10	0° - 30°	15/32	11.9	1/2	1-3/4
821.045.11	10	0° - 45°	15/32	11.9	1/2	1-3/4

### **Combination Trimmer Bits**



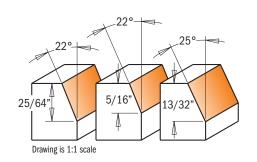
809.025.11

### 809



CMT Bevel trim bits are ideal for putting a superior finish on laminates. They feature two flutes for smoother cutting and specially coated bearings to protect your work piece.

The cutting depth of the bit can be varied to obtain precise borders and edges on both soft and hard woods.



ORDER NO. S=Ø1/4" shank	8	A	inches D	mm	I inches	L inches	T
809.022.11	10	22°	1/2	12.7	5/16	1-7/8	2
809.023.11	10	22°	11/16	17.5	3/8	2	3
809.025.11	10	25°	3/4	19.05	13/32	2-1/16	2

Spare parts			
	791.035.00	990.062.00	991.060.00
990.422.00	791.002.00	990.058.00	991.057.00
990.422.00	791.002.00	990.058.00	991.057.00



# S CANAD BRANSE

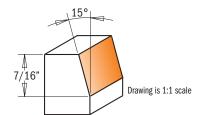
### 809



Ideal bit for efficient trimming of laminates, chipboard and melamine. The bit is equipped with a DELRIN® bearing to match the workpiece without scratching or marring. The gap between the bearing and the bottom of the cutter allows for an efficient ejection of glue and resin without blocking the bearing, so your tool will last longer and remain in top condition!

### NON BLOCKING

DELRIN® anti-stick properties greatly reduce the likelihood of freezing from glue and prevent scratching, unlike the traditional steel bearing.



ORDER NO. S=Ø1/4" shank	8	A	inches	mm	l inches	L inches
809.016.11	10	15°	47/64	18.6	7/16	2-1/4



### **DP** - Flush Trim Bits for Laminates

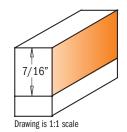


### 806 TREME



These new super duty DP (polycrystalline diamond) bits represent the ultimate in the extensive line of CMT flush trim bits. Investing in CMT DP flush trim bits means saving time and money as they last 40 times longer than conventional carbide-tipped flush trim bits.

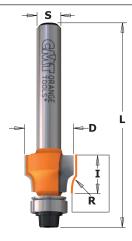
SHOP TIPS: after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)



		lest de les	8.8		
ORDER NO. S=Ø1/4" shank	8	inches	mm	<b>D</b> inches	L inches
906 129 61	10	7/16	11	1/2	20/22

Spare parts			
990.423.00	791.003.00	990.058.00	991.057.00

### FILE-FREE Flush Trim Bits for Laminate



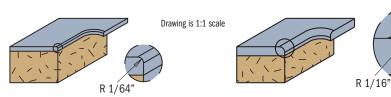
162

### 807



This bit is perfect for ensuring smooth flawless results on your laminate surfaces after flush trimming. Sharp edges are easily trimmed away, leaving your surfaces nice and smooth to the touch. No further filing is needed!

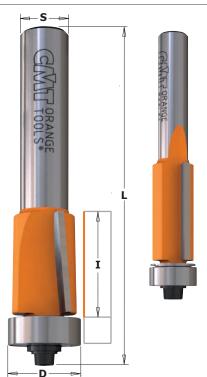
SHOP TIPS: after resharpening, replace bearing 791.002.00 (Ø9.5mm) with undersized bearing **791.062.00** (Ø9.3mm)



<b>ORDER NO. S=Ø1/4"</b> shank	8	inches	mm	inches	R inches	L inches	
807.004.11	10	1/2	12.7	3/8	1/64	2-3/64	-
807.015.11	10	1/2	12.7	3/8	1/16	2-3/64	-

Spare parts			
990.422.00	791.002.00	990.058.00	991.057.00
990.422.00	791.002.00	990.058.00	991.057.00







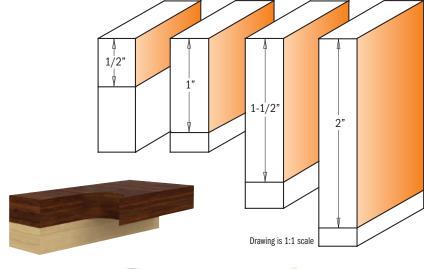








Tough, versatile, fast-cutting CMT Flush Trim bits are ideal for a wide variety of trimming jobs. We offer a wide range of sizes that are sure to satisfy any woodworing need. Use these carbide tipped bits for precision work on laminates or for quick template work with excellent finish results.







10 (10 PCS. IN MASTERPACK)

<ul> <li>Solid Carbide</li> </ul>								Spare parts			
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	<b>D</b> inches	L inches	α			9	
• 806.064.11		10	1	25.4	1/4	2-1/2	0°		791.035.00	541.009.00	990.113.00
806.096.11		10	1/2	12.7	3/8	2-3/16	0°	990.422.00	791.002.00		990.058.00
806.128.11		10	1/2	12.7	1/2	2-9/32	-5° Neg.	990.423.00	791.003.00		990.058.00
	806.628.11	10	1/2	12.7	1/2	2-25/32	-5° Neg.	990.423.00	791.003.00		990.058.00
806.095.11		10	1	25.4	3/8	2-11/16	0°	990.422.00	791.002.00		990.058.00
806.127.11		10	1	25.4	1/2	2-25/32	-3° Neg.	990.423.00	791.003.00		990.058.00
	806.627.11	10	1	25.4	1/2	3-13/32	-3° Neg.	990.423.00	791.003.00		990.058.00
	806.629.11	10	1-1/2	38.1	1/2	3-45/64	0°	990.423.00	791.003.00		990.058.00
	806.630.11	10	2	50.8	1/2	4-3/32	0°	990.423.00	791.003.00		990.058.00
806.191.11		10	1	25.4	3/4	2-29/32	-5° Neg.	990.425.00	791.004.00	541.550.00	990.058.00
	806.691.11	10	1	25.4	3/4	3-13/32	-5° Neg.	990.425.00	791.004.00	541.550.00	990.058.00
	806.692.11	10	1-1/2	38.1	3/4	3-21/32	-3° Neg.	990.425.00	791.004.00	541.550.00	990.058.00
	806.690.11	10	2	50.8	3/4	4-5/16	-3° Neg.	990.425.00	791.004.00	541.550.00	990.058.00
10 PCS. IN MASTE	RPACK										
806.096.11-X10			1/2	12.7	3/8	2-3/16	0°				
806.095.11-X10			1	25.4	3/8	2-11/16	0°				
806.127.11-X10			1	25.4	1/2	2-51/64	-3° Neg.				

1/2

3-13/32

25.4

806.627.11-X10 **Spare parts: 991.057.00** 3/32" hex key for screw (990.058.00) 0°

SHOP TIPS: after resharpening, replace bearing as follows: 791.002.00 (Ø9.5mm) with undersized bearing **791.062.00** (Ø9.3mm) 791.003.00 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)

### 3-FLUTE SUPER-DUTY FLUSH TRIM BIT

ORDER NO. S=Ø1/4" shank	8	inches	mm	<b>D</b> inches	L inches	α
806.227.11	10	1	25.4	1/2	2-25/32	0°

Spare parts 990.058.00 991.057.00 990.423.00 791.003.00



**SHOP TIPS:** after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)





806B TREME

These new XTreme flush trim bits guarantee the best possible finish along with extra-long life thanks to one-ofa-kind spiral technology. 4 cutting edges in high quality carbide are crafted using special brazing techniques as well as unique positive and negative design thus eliminating splintering on the upper and lower sides of the material you're working with.

Ideal for projects involving precious wood, melamine and delicate engineered veneers.

NOTA: use of variable speed routing machines is required. 19mm bits Max RPM 18.000

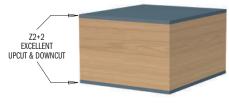
35mm bits Max RPM 16.000



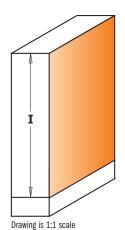
806.690.41B

2024 PRO TOOL INNOVATION AWARDS

"RECOGNITION FOR EXCELLENT VALUE, ADVANCED FEATURES AND INNOVATION" www.protoolinnovationawards.com







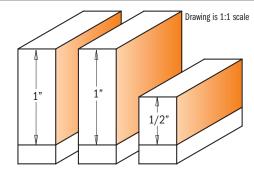
<b>ORDER NO. S=Ø1/4"</b> shank	ORDER NO. S=Ø1/2" shank		inches	inches mm		L inches
806.127.41B		10	1	25.4	1/2	3-5/32
806.191.41B		10	1	25.4	3/4	3-3/8
	806.690.41B	10	2	50.8	3/4	4-29/64
	806.880.41B	10	2	50.8	1-3/8	4-27/32

	Spare parts —		0		
	990.423.00	791.003.00		791.010.00	541.001.00
	990.425.00	791.004.00	541.550.00	791.004.00	541.001.00
-	990.425.00	791.004.00	541.550.00	791.011.00	541.002.00
_	990.426.00	791.029.00	541.552.00	791.029.00	541.002.00

**Spare parts:** 990.058.00 1/8"x3/8"x1/2" TCEI screw 991.056.00 1.5mm hex key for screw (M3) **991.057.00** 3/32" hex key for screw (990.058.00)

### Flush Trim Bit Set







Indispensable in any shop, the new 3 piece flush trim bit set gives you the option to trim laminates or do template work conveniently using just one instrument.

806.001.11

1,	/4"	Shar	ık
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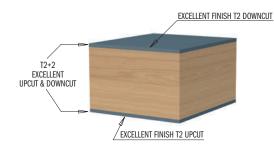
SET CONTAINS	ORDER NO. S=Ø1/4" shank	inches	mm	inches	L inches
Flush Trim bit	806.095.11	3/8	9.52	1	2-11/16
Flush Trim bit	806.096.11	3/8	9.52	1/2	2-3/16
Flush Trim bit	806.191.11	3/4	19.05	1	2-59/64

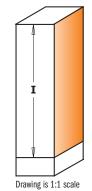


### 190B - 191B - 192B



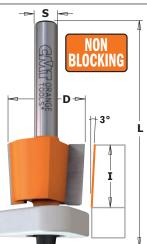
CMT solid carbide spiral flush trim bits are composed of a special super-micrograin formulation increasing hardness with a higher transverse rupture point. Combined with a spiral cutting angle, CMT solid carbide spiral flush trim bits equipped with a double bearing, allow cabinet makers to shear wood and wood products cleanly, providing more efficient chip ejection than standard flush trim bits. In production settings, this means these bits will run cooler, stay sharper, last longer and increase shop productivity.





							- Spare parts		
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	l mm	<b>D</b> inches	L inches			
2+2-EDGE UPCL	T & DOWNCUT								
	190.508.11B	10	1-7/8	47.6	1/2	4-1/2	791.010.00		541.301.00
2-EDGE UPCUT									
191.008.11B		10	1	25.4	1/4	3	791.035.00	541.009.00	
	191.505.11B	10	1-1/4	31.7	1/2	3-1/2	791.010.00		541.301.00
	191.507.11B	10	2	50.8	1/2	4-1/2	791.010.00		541.301.00
2-EDGE DOWNC	UT								
192.008.11B		10	1	25.4	1/4	3	791.035.00	541.009.00	
	192.505.11B	10	1-1/4	31.7	1/2	3-1/2	791.010.00		541.301.00
	192.507.11B	10	2	50.8	1/2	4 -1/2	791.010.00		541.301.00

### 3-in-1 Flush Trim Bits for MDF/Laminate



### 807

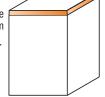


 $3 \text{ in } 1 \text{ new flush trim bits with DELRIN}^{\circ}$  Triangular bearings are your best partner for laminate trimming. In fact, it solves three of the most common problems that occur when flush trimming:

**Perfect trimming with conical edges!** 

- The anti-stick properties of the DELRIN® bearing greatly reduces the likelihood of freezing of the bearing from glue.
- 2) The extended guide surface of the new DELRIN® bearing will perfectly match the work surface without scratching like a steel bearing would. The DELRIN® bearing also guarantees maximum stability.
- 3) The shear angle cutting edge reduces the need for filing. 3-in-1 bits are ideal on plastic laminates as well as aluminium laminates!





Drawing is 1:1 scale

### Patent No. D628,218

- Extended guide surface
- Non-freezing
- Non-scratch surface



## Thanks to the innovative conical edges of this bit, you will always get perfect cuts even after re-sharpening. In fact, the most common problem you have with standard flush trim bits is the undersized diameter after re-sharpening which leaves a mark on the material; with the new CMT construction you could re-sharpen up to six times without any problem. Just remember to adjust your bit up or down as per the illustration.

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	<b>D</b> inches	<b>L</b> inches
807.128.11		10	1/2	12.7	1/2	2-9/64
807.190.11		10	5/8	15.87	3/4	2-11/32
	807.690.11	10	5/8	15.87	3/4	2-19/32

Spare parts			
990.422.00	791.042.00	990.058.00	991.057.00
990.423.00	791.043.00	990.058.00	991.057.00
990.423.00	791.043.00	990.058.00	991.057.00

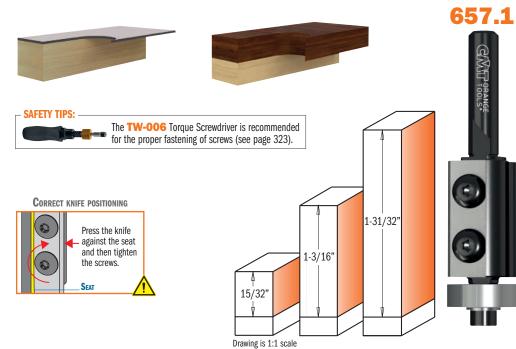
### Flush Trim Bits with Insert Knives





### 657 INSE

Specially designed to perform difficult trimming operations, these bits are both indispensable and economical. Flush trim bits with two replaceable knives fixed by special TORX® screws. The 2-sided blades can create extra new edges. Guided flush trim bits type 657.1 are equipped with ball bearing guides.



ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	<b>D</b> inches	L inches
657.192.11		10	15/32	12	3/4	2-1/4
	657.692.11	10	1-3/16	30	3/4	3-23/64
	657.992.11	10	1-31/32	50	3/4	4-13/32

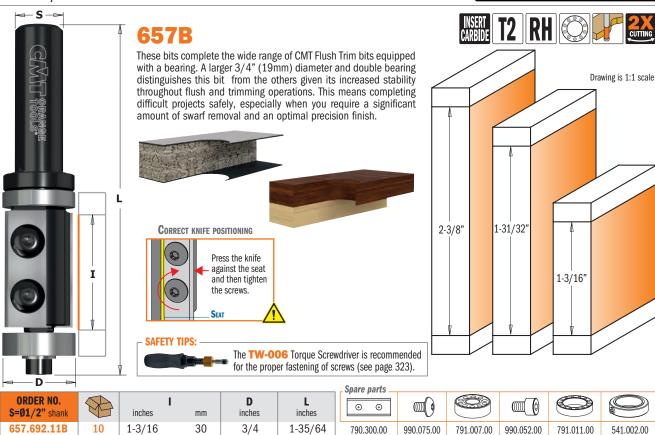
Spare parts **(**) •  $\odot$ 990.075.00 991.061.00 790.120.00 791.007.00 790.300.00 990.075.00 991.061.00 791.007.00 790.500.00 990.075.00 991.061.00 791.007.00

**Spare parts: 990.400.00** Ø3.2/Ø7mm shield for M3 screw **990.410.00** Ø4.2/Ø9mm shield for M4 screws **990.051.00** M3x6mm TCEI screws

**990.052.00** M4x6mm TCEI screws **991.067.00** 3mm hex key **541.514.00** Ø6.4mm shield

### Pattern/Flush Trim Bits with Insert Knives





Spare parts: 990.410.00 Shield Ø4.2/Ø9mm for M4 screws 991.067.00 3mm hex key

1-31/32

2-3/8

10

10

991.061.00 T15 TORX® key 991.056.00 1.5mm hex key

790.500.00

790.600.00

990.075.00

990.075.00

791.007.00

791.007.00

990.052.00

990.052.00

791.011.00

791.011.00

CARBIDE TO TAKE TO THE CONTROL OF THE CARBIDE TO TH

541.002.00

541.002.00

Drawing is 1:1 scale



657.994.11B

657.996.11B

### Flush Trim Router Bits with Double Bearing

### 806B

50

3/4

3/4

This innovative two-flute router bit is equpped with a double bearing and feature a down shear deisgn allowing cleaner, smoother cuts on a variety of materials.

4-11/32

4-3/4

Now it's no longer necessary to flip or move your tool during routing opertions. This tool is particularily effective when routing curved elements along or against the grain.



Name of the last

Spare parts

<b>ORDER NO. S=Ø1/2"</b> shank	8	inches	mm	<b>D</b> inches	L inches	α
806.691.11B	10	1	25.4	3/4	3-13/32	-5° Neg.
806.690.11B	10	2	50.8	3/4	4-5/16	-3° Neg.

990.425.00	791.004.00	541.550.00	990.058.00	791.011.00	541.002.00
990.425.00	791.004.00	541.550.00	990.058.00	791.011.00	541.002.00

2"

Spare parts: 991.057.00 3/32" hex key

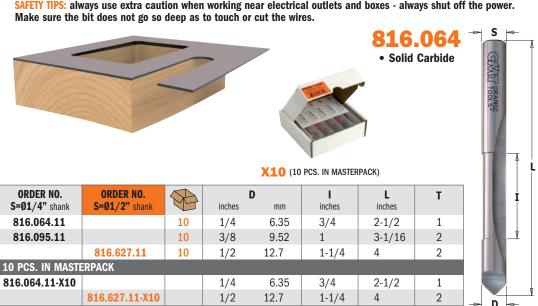


# S ⊨

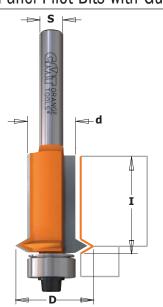
### 816

How much time do you end up spending making openings in paneling, drywall, siding, doors or windows? With the CMT panel pilot bit, the job just got quicker. The point of this bit as well, plunge smoothly and easily and the carbide edges cut clean and fast. All of this adds up to accurate cuts in less time and with less effort - great for trimming veneer as well as a variety

SAFETY TIPS: always use extra caution when working near electrical outlets and boxes - always shut off the power.



### Panel Pilot Bits with Guide

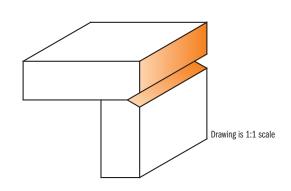


the hinge joint to hide the seam.



An absolutely indispensable bit for making cabinets. CMT Flush and V-Groove bits allow you to make cabinet front frames in 25mm stock that fit perfectly with the sides. The added V-cutter feature makes a decorative groove along

SHOP TIPS: For best results, leave less than 3mm overhang on cabinet front frames for easier routing.



ORDER NO.	ORDER NO.	8	. d		D	I.	L
<b>S=Ø1/4"</b> shank	<b>S=Ø1/2</b> " shank		inches	mm	inches	inches	inches
853.001.11		10	1/2	12.7	3/4	1	2-41/64
	853.501.11	10	1/2	12.7	3/4	1	3-1/64

Spare parts			
990.423.00	791.003.00	990.058.00	991.057.00
990.423.00	791.003.00	990.058.00	991.057.00





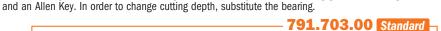








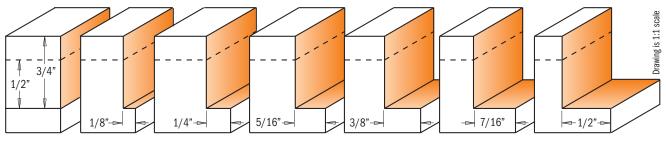




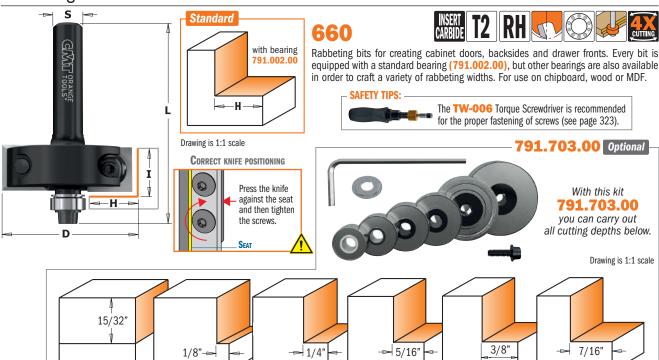


BE SURE to keep the black bearing washer right side up to correspond with the bearing rotation when re-assembling the bearing. Improper re-assembly can cause the screw to come loose.

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	<b>H</b> inches mm		<b>D</b> inches	inches
835.001.11	835.501.11	5	0 to 1/2	0 - 12.7	1-3/8	1/2
	835.502.11	5	0 to 1/2	0 - 12.7	1-3/8	3/4



### Rabbeting Bits with Insert Knives



with bearing

791.019.00

ORDER NO. ORDER NO. н D П L **S=01/4"** shank S=01/2" shank inches inches inches mm inches 660.351.11 10 1/2 12.7 1-3/8 15/32 2-1/8 660.851.11 10 1/2 12.7 1-3/8 15/32 2-33/64

with bearing

791.014.00

Spare parts • 790.120.00 990.422.00 791.002.00 991.061.00 790.120.00 990.422.00 791.002.00 991.061.00

with bearing

791.018.00

Spare parts: 990.075.00 M4x6mm TORX® screw

with bearing

791.016.00

990.058.00 1/8"x3/8"x1/2" TCEI screw

with bearing

791.017.00

with bearing

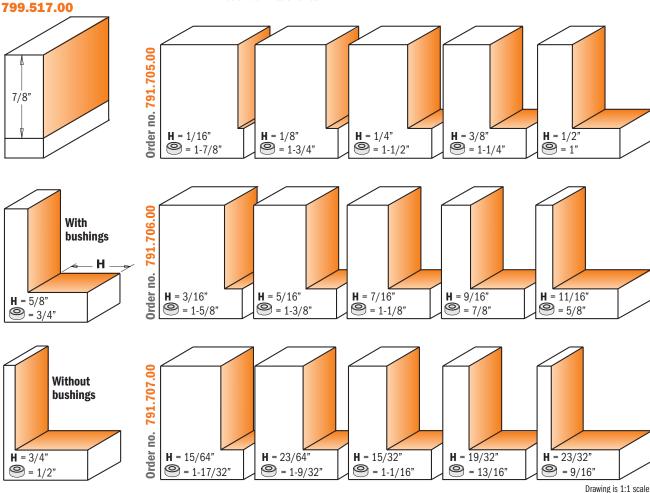
791.003.00





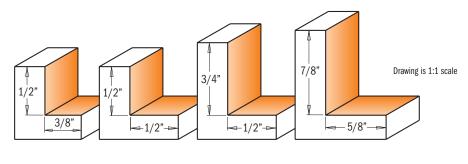
799.517.00 2" collar for Flush Trim

2" Collar Flush Trim order no.





CMT carbide-faced rabbeting bits are fast and accurate - you can quickly produce inset doors and drawer fronts, make strong rabbet joints, mill perfect tongue and groove joints or any number of other jobs usually time consuming and difficult. Other possibilities for these tungsten carbide bits are illustrated below and on the following pages.

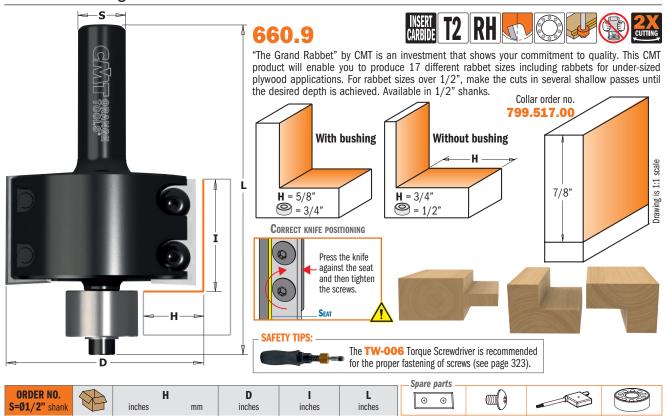


ORDER NO. S=Ø1/4" shank	<b>ORDER NO. S=Ø1/2"</b> shank	8	inches	l mm	<b>D</b> inches	I inches	L inches	Spare parts _			
835.317.11		10	3/8	9.52	1-1/4	1/2	2-5/16	990.423.00	791.003.00	990.058.00	991.057.00
	835.817.11	10	3/8	9.52	1-1/4	1/2	2-13/32	990.423.00	791.003.00	990.058.00	991.057.00
835.350.11	835.850.11	10	1/2	12.7	1-3/8	1/2	2-11/32	990.422.00	791.002.00	990.058.00	991.057.00
	835.851.11	10	1/2	12.7	1-3/8	3/4	2-19/32	990.422.00	791.002.00	990.058.00	991.057.00
	835.990.11	10	5/8	15.87	2	7/8	3-1/16	990.408.00	791.010.00	990.058.00	991.057.00

Spare parts: 541.514.00 2mm spacer (for 835.990.11) 799.503.00 3/4" bushings (for 835.990.11)

### Grand Rabbeting Bits with Insert Knives

Ι



10 Spare parts: 541.514.00 Ø6.4mm stop collar **799.503.00** Ø19.05mm bushings

660.991.11

990.410.00 Ø4.2/Ø9mm shield for M4 screw

5/8

15.87

990.052.00 M4x6mm TCEI screw 991.067.00 3mm hex key **990.469.00** Kit screw, shield and key

1-1/8

2

790.283.12

3-3/8

Optional: 799.517.00 Bushing for flush trim Ø50.8mm

990.075.00

**791.705.00** 5 pcs. bushing set (H=1.6-3.2-6.35-9.5-12.7mm rabbets) **791.706.00** 5 pcs. bushing set (H=4.7-8-11.1-14.3-17.5mm rabbets) **791.707.00** 5 pcs. bushing set (H=6-9.1-11.9-15-18.2mm rabbets)

991.061.00

791.010.00

### Keyhole Bits

S

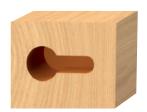


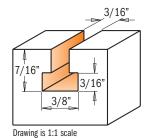
850.0 5 This keyhole bit allows you to craft perfect holes that will keep your frames, plaques or any wall hanging perfectly straight, as if floating on the wall. The bit bores an entry hole in the wood, then proceeds to cut a 3/16" hole and finishes by boring a larger opening under the surface.

**SAFETY TIPS:** Be sure the workpiece is securely fastened to the router table or work bench.

SHOP TIPS: Recommended for use with a plunge router.







0	

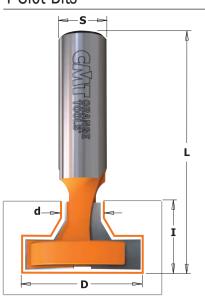
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank		inches	mm	<b>d</b> inches	I inches	L inches	<b>S</b> inches
850.001.11	850.501.11	10	3/8	9.52	3/16	7/16	2-1/8	
•850.501.21		10	3/8	9.52	3/16	7/16	2-9/16	3/8

Solid Carbide

# 850.501.21

3/8" shank

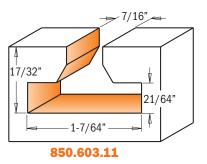
### T-Slot Bits

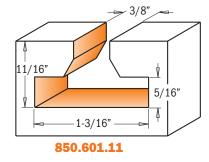


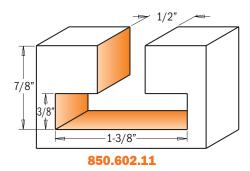
### 850.6

The perfect bit for crafting wall panel slots. This bit is not designed for plunging operations. For best results, use in CNC machinery and table-mounted routers.

ORDER NO. S=01/2" shank		<b>D</b> inches mm		<b>d</b> inches	l inches	L inches
850.603.11	10	1-7/64	28	7/16	17/32	2-7/32
850.601.11	10	1-3/16	30	3/8	11/16	2-3/8
850.602.11	10	1-3/8	34.9	1/2	7/8	2-1/2

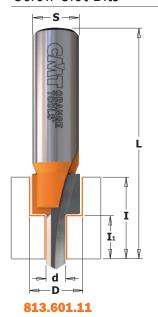






Drawing is 1:1 scale

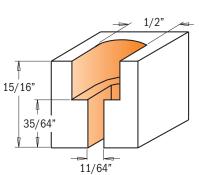


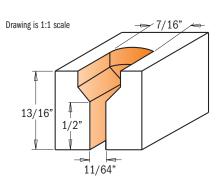


Any large panel or table top should be secured in a way that allows it to expand or contract without splitting.

These screw-slot bits let you create screw slots so that panels can be held in place but are able to slide back and forth without splitting the wood or breaking the screw securing them.

Both have 1/2" shank and the codes **813.701.11** are for countersink screws, while the codes **813.601.11** are for counterbored screws.



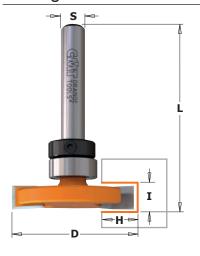






ORDER NO. S=Ø1/2" shank	8	inches <b>D</b>	mm	d inches	I <sub>1</sub>	I inches	L inches
813.701.11	10	7/16	11.1	11/64	1/2	13/16	2-1/2
813.601.11	10	1/2	12.7	11/64	35/64	15/16	2-1/2

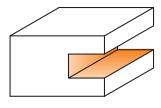
### Flooring Router Bits

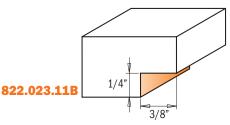


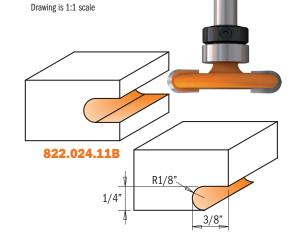
### 822.023B - 822.024B

CMT now offers you these industrial quality carbide-tipped router bits for flooring and inlay applications. They easily and smoothly run through solid and timber wood while cutting edges and remain sharp even after several passes 822.024.11B item number also features rounded edges to produce 1/8" radius inlays.

These bits are equipped with a stop collar and a bearing.







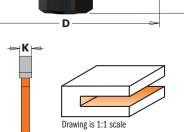
ORDER NO.	\$	D	)	I	Н	R	L
<b>S=Ø1/4"</b> shank		inches	mm	inches	inches	inches	inches
822.023.11B	10	1-1/4	31.75	1/4	3/8		1-7/8
822.024.11B	10	1-1/4	31.75	1/4	3/8	1/8	1-7/8

_Spare parts			
791.010.00	541.001.00	990.005.00	991.056.00
791.010.00	541.001.00	990.005.00	991.056.00







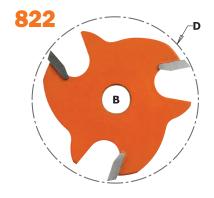


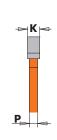
### 822A/B

These Slot Cutters are great for splines, biscuits, T-molding & more. For biscuit joining use the 5/32" cutter. Available as a cutter only, or with your choice of 1/4" or 1/2" diameter arbor with a 7/8" diameter bearing for cutting depth up to 1/2".

**NOTE:** for 9.5mm or 6.35mm depths, you can order the bearing kit 791.711.00 (with 28.5mm - 34.9mm diameters).

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	K inches	mm	D inches	<b>H</b> inches	P inches	L inches
822.316.11A	3-91/2 Slidik	10	1/16	1.6	1-7/8	1/2	0.043	2-13/32
	822.316.11B	10	1/16	1.6	1-7/8	1/2	0.043	2-21/32
822.320.11A		10	5/64	2	1-7/8	1/2	0.051	2-13/32
	822.320.11B	10	5/64	2	1-7/8	1/2	0.051	2-21/32
822.324.11A		10	3/32	2.4	1-7/8	1/2	0.051	2-13/32
	822.324.11B	10	3/32	2.4	1-7/8	1/2	0.051	2-21/32
822.332.11A		10	1/8	3.2	1-7/8	1/2	0.051	2-13/32
	822.332.11B	10	1/8	3.2	1-7/8	1/2	0.051	2-21/32
822.340.11A		10	5/32	4	1-7/8	1/2	0.082	2-13/32
	822.340.11B	10	5/32	4	1-7/8	1/2	0.082	2-21/32
822.348.11A		10	3/16	4.8	1-7/8	1/2	0.114	2-13/32
	822.348.11B	10	3/16	4.8	1-7/8	1/2	0.114	2-21/32
822.360.11A		10	15/64	6	1-7/8	1/2	0.177	2-13/32
	822.360.11B	10	15/64	6	1-7/8	1/2	0.177	2-21/32
822.364.11A		10	1/4	6.35	1-7/8	1/2	0.177	2-13/32
	822.364.11B	10	1/4	6.35	1-7/8	1/2	0.177	2-21/32





ORDER NO.		K inches	mm	<b>D</b> inches	B mm	P inches
822.316.11	10	1/16	1.6	1-7/8	8	0.043
822.320.11	10	5/64	2	1-7/8	8	0.051
822.324.11	10	3/32	2.4	1-7/8	8	0.051
822.332.11	10	1/8	3.2	1-7/8	8	0.051
822.340.11	10	5/32	4	1-7/8	8	0.082
822.348.11	10	3/16	4.8	1-7/8	8	0.114
822.360.11	10	15/64	6	1-7/8	8	0.177
822.364.11	10	1/4	6.35	1-7/8	8	0.177



### 824.xxx.10

ORDER NO. S=Ø1/4" shank	<b>ORDER NO. S=Ø1/2"</b> shank	8	DESCRIPTION	<b>LB</b> inches	L inches
824.064.00		10	Slot cutter arbor without bearing	1-1/32	2-13/32
	824.127.00	10	Slot cutter arbor without bearing	1-1/32	2-21/32
824.064.10		10	Slot cutter arbor with bearing	1-1/32	2-13/32
	824.127.10	10	Slot cutter arbor with bearing	1-1/32	2-21/32

**Spare parts: 791.005.00** Ø8-22mm bearing **541.501.00** 4mm spacer

**541.500.00** 3mm spacer

**541.518.00** 1mm spacer **990.020.00** M8 nut

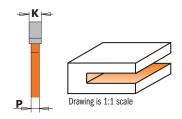


### CARBIDE T3 RH

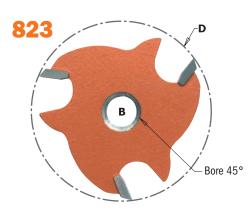
823B
The uses of the

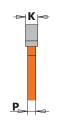
The uses of this bit are infinite: not only can you rout grooves and rabbets, but you can even create T or dovetail joints and create biscuit and spline recesses on wood panels. Each bit features three carbide-tipped cutters, orange coloured P.T.F.E. coating and anti-kickback design.

NOTE: This cutter comes with a Ø22mm bearing for 2.8mm depth cuts. By ordering different bearings this depth can be shortened.



ORDER N		8	K		Р	D	Н	L
S=Ø1/2" s	shank		inches	mm	inches	inches	inches	inches
823.332.	11B	10	1/8	3.2	0.050	1-7/8	1/2	2-17/64
823.340.	11B	10	5/32	4	0.081	1-7/8	1/2	2-19/64
823.364.	11B	10	1/4	6.35	0.175	1-7/8	1/2	2-25/64



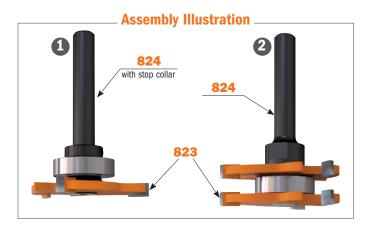


These 3-wing carbide tipped slot cutters feature anti-kickback design and CMT's trademark orange P.T.F.E. Industrial Coating for carrying out lateral grooves. For use with cutter arbors  $824 \ (01/4" \& 01/2")$ .

ORDER NO.		K	mm	P inches	<b>D</b> inches	B mm
823.332.11	10	1/8	3.2	0.050	1-7/8	8
823.340.11	10	5/32	4	0.081	1-7/8	8
823.364.11	10	1/4	6.35	0.175	1-7/8	8



824.122.10



ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	DESCRIPTION
824.061.00	824.121.00	10	Slot cutter arbor without bearing/stop collar
824.061.10	824.121.10	10	Slot cutter arbor with bearing/stop collar
	824.122.00	10	Slot cutter arbor without bearing
	824.122.10	10	Slot cutter arbor with bearing

**Spare parts: 791.012.00** Ø8-22mm bearing

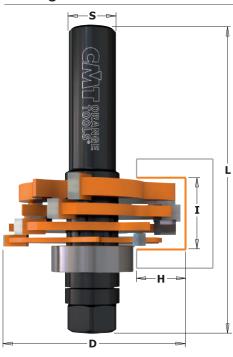
**541.515.00** 0.1mm spacer

**541.001.00** Stop collar for Ø1/4" shanks **541.002.00** Stop collar for Ø1/2" shanks **791.013.00** Ø1/2" - 7/8" bearing

**541.516.00** 0.3mm spacer **541.517.00** 0.5mm spacer **541.518.00** 1mm spacer **990.055.00** M5x12mm TSPEI screw **991.067.00** 3mm hex key

### 3-Wing Slot Cutter





### 800.506

The Three Wing Slot Cutter Set routs slots, grooves and rabbets from 1/8" to 23/32" deep. Ideal for biscuit joints and milling perfect tongue and groove joints.

The set includes:

- 4 carbide tipped cutters 1/8", 5/32", 3/16", 1/4"
- 1 arbor 1/2
- 1 ball bearing (22mm) for 1/2" cut. 17 shims: (8 x 0.1mm, 4 x 0.5mm, 3 x 1mm, 2 x 4mm).

Spare parts

824.128.00

never use without shims between the cutters and between the cutter & bearing.

the bearings kit 791.711.00 reaches 1/4" and 3/8" cutting depth.

NOTE: the carbide edges of the cutters must never touch; arrange the shims as illustrated here. Use only thicknesses provided in the set. Be sure all cutters are assembled in the correct rotational direction. Looking downwards on the arbor, the cutters will turn clockwise.

L

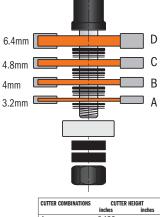
inches

3-3/16



791.005.00

990.020.00



A	0.126		
В	0.157		
C	0.189		
D	0.252		
A + B	0.252	to	0.279
A + C	0.283	to	0.311
A + D	0.346	to	0.374
B + C	0.315	to	0.342
B + D	0.378	to	0.405
C + D	0.409	to	0.437
A + B + C	0.409	to	0.464
A + B + D	0.468	to	0.523
A + C + D	0.500	to	0.555
B + C + D	0.531	to	0.586
A + B + C + D	0.626	to	0.708
Use shims to adjust cu	rt width: MIN. 0.0	39" - 1	MAX 0.066"

Spare parts: 541.515.00 0.1mm spacer

S=Ø1/2" shank

800.506.11

**541.517.00** 0.5mm spacer **541.518.00** 1mm spacer

inches

1/8 to 23/32

1/2 Optional: 791.711.00 2 pcs bearing set for depth variations 1-1/8" & 1-3/8"

н

inches

D

inches

1-7/8

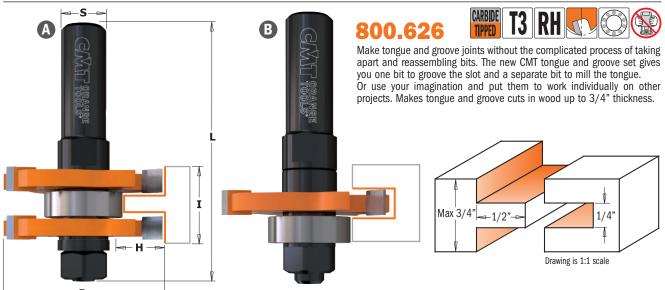
mm

3.2-18

541.501.00 4mm spacer

10

### Tongue & Groove Set



ORDER NO. S=Ø1/2" shank	8	inches	l mm	<b>D</b> inches	<b>H</b> inches	L inches	PROFILE
800.626.11	5	3/4	19.05	1-7/8	1/2	2-51/64	A+B
800.626.11M	10	3/4	19.05	1-7/8	1/2	2-51/64	Α

	_Spare parts			
	824.131.00	791.005.00	822.364.11	990.020.00
	824.131.00	791.005.00	822.364.11	990.020.00

Spare parts: 541.515.00 0.1mm spacer **541.516.00** 0.3mm spacer **541.517.00** 0.5mm spacer **541.518.00** 1mm spacer **541.500.00** 3mm spacer





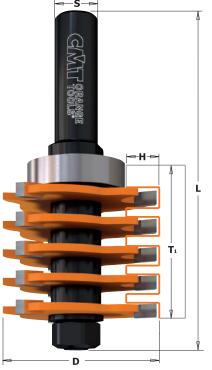






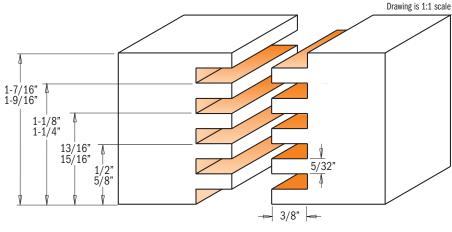






### 800.616

This router allows you to carry out accurate and functional finger joints with the greatest of ease. Without any adjustment you will be able to work woods with different thicknesses as indicated in the drawing. The bearing allows you to reach a 3/8" cutting depth. For further cutting depths you need to use a fence.



ORDER NO. S=Ø1/2" shank	8	<b>D</b> inches	mm	<b>H</b> inches	T <sub>1</sub> inches	<b>L</b> inches
800.616.11	5	1-7/8	47.6	3/8	1/2 - 1-9/16	3-13/16

Spare parts 824.130.00 791.027.00 822.340.11 990.020.00

**Optional: 791.020.00** Ø1-1/2" bearing (for depth 3/16") **791.029.00** Ø1-3/8" bearing (for depth 1/4")

**791.015.00** Ø1-1/4" bearing (for depth 5/16") **791.011.00** Ø3/4" bearing (for depth 9/16")

**Spare parts: 541.515.00** 0.1mm spacer

**541.519.00** 5.8mm spacer 990.403.00 1.6mm washer 990.459.00 Kit with spacers

### Professional Finger Joint Bit

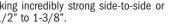
### 800.606



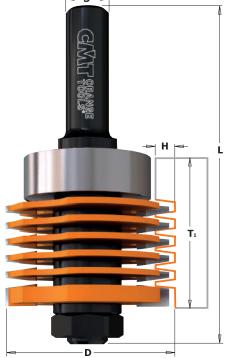


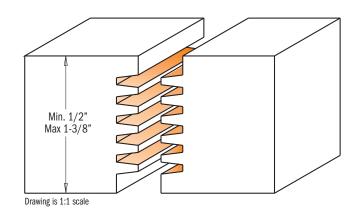






This versatile finger joint bit is the perfect tool for making incredibly strong side-to-side or end-to-end joints in wood and in varying lengths from 1/2" to 1-3/8". The tightness and accuracy of the cut joint coupled with the maximum glue surface create a joint that is actually stronger than an unworked piece of wood.





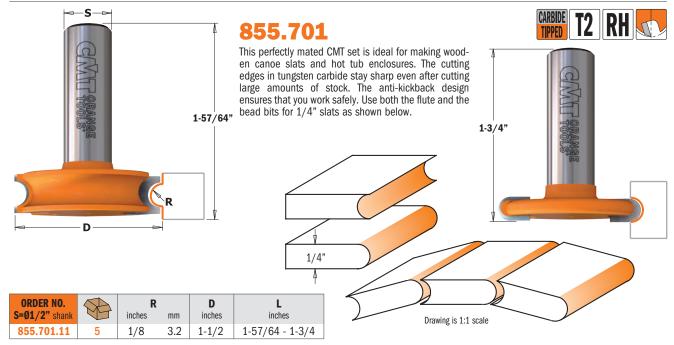
ORDER NO. S=Ø1/2" shank	8	<b>D</b> inches	mm	H inches	T <sub>1</sub> inches	L inches
800.606.11	5	1-7/8	47.6	7/32	1/2 - 1-3/8	3-13/16

Spare parts 824.129.00 791.028.00 822.005.11 822.006.11 990.022.00

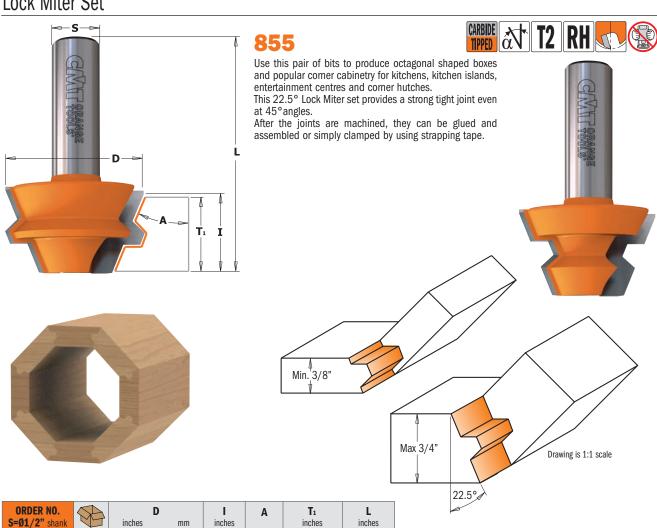
Spare parts: 541.511.00 3mm spacer **541.512.00** 2mm spacer **541.526.00** 0.1mm spacer 990.458.00 Kit with spacer

### Flute & Bead Set





### Lock Miter Set



2-3/8

855.505.11

1-15/32

37.3

7/8

22.5°

3/8 - 3/4

**B**)

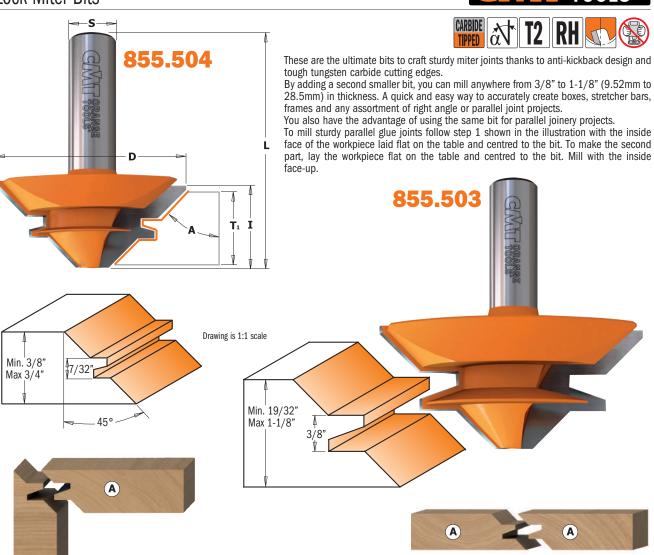
ORDER NO.

S=01/2" shank

855.503.11

855.504.11





69.8

50.8

inches

1-1/4

45°

45°

inches

2-3/4

5

 $T_1$ 

inches

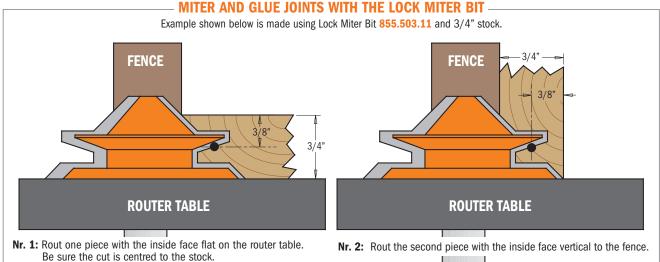
5/8 - 1-1/8

3/8 - 3/4

inches

2-3/4

2-3/8





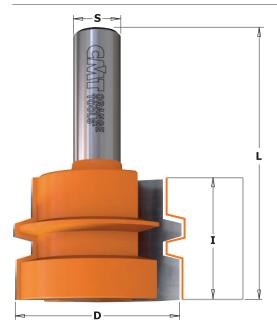












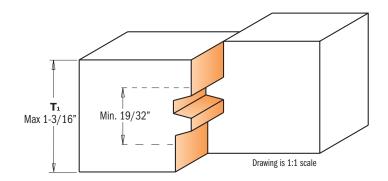
### 855.501

The most unique and important characteristic of this CMT bit is its capacity to produce a virtually indestructible glue joint quickly and flawlessly. Ideal for routing panels, doors and furniture pieces of wide dimension, panels, doors and furniture pieces.

Refer to page 212-213, "ABC's of Panel Door Construction".

By accurately centering the bit to the wood, the upper and lower vertical cutting edges of the bit will cut equal proportions. Simply run one edge of the panel, turn the panel over, and then run the opposite edge - you will craft perfectly harmonized reverse cuts that match up to produce immaculate joints!

SHOP TIPS: When glueing, apply enough pressure to securely seal the joint. Insufficient pressure results in a weak joint and excessive pressure will distort the wood.





ORDER NO. S=Ø1/2" shank	8	<b>D</b> inches	mm	inches	T <sub>1</sub> inches	<b>L</b> inches
855.501.11	10	1-3/4	44.5	1-1/4	19/32 - 1-3/16	2-49/64

# IN THIS EXAMPLE WE USED A 3/4" BOARD **FENCE** 3/8" 3/8" **ROUTER TABLE**

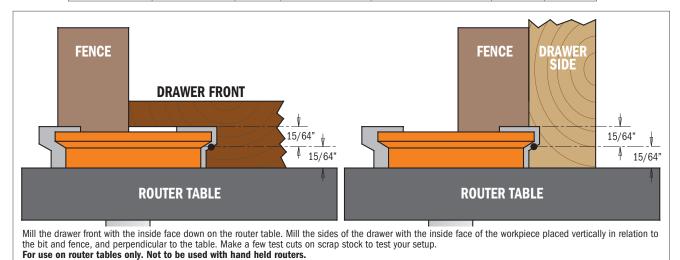
Accurately centre the wood to the bit: Adjust the bit according to the thickness of the wood you are cutting. Line up the cut edge of the wood to the centre point of the bit as illustrated in the enlarged drawing. The upper and lower vertical cutting edges of the bit are in proportion and at an equal distance from the centre point of the bit. Run one cut edge of the wood, turn the piece over and run the other edge for exact reverse cuts that match up perfectly. Assemble the reverse cut pairs together for beautiful, strong joints.





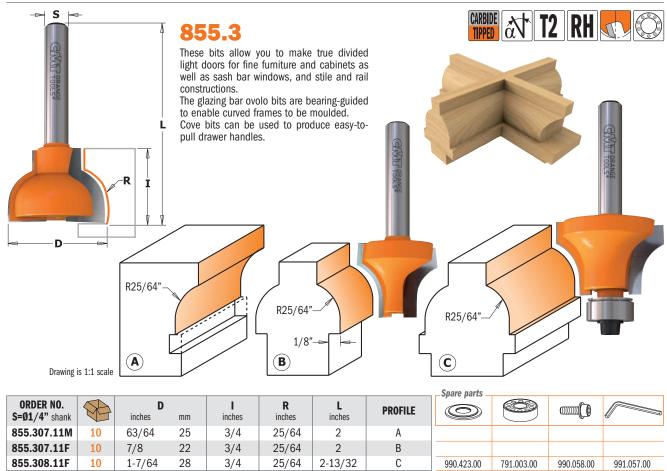
ORDER NO.	ORDER NO.	A	D		T <sub>1</sub>		I	L
<b>S=Ø1/4"</b> shank	<b>S=Ø1/2"</b> shank		inches	mm	min. inches	max inches	inches	inches
	855.508.11	10	1	25.4	3/8	5/8	1/2	2-1/8
855.002.11		10	1-1/4	31.7	5/8	1	1/2	1-3/4
	855.502.11	10	2	50.8	5/8	1	1/2	2

for drawer stop

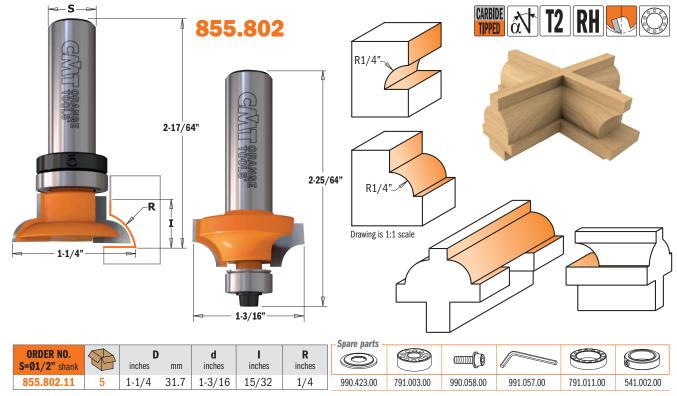


### Ovolo Sash Bits

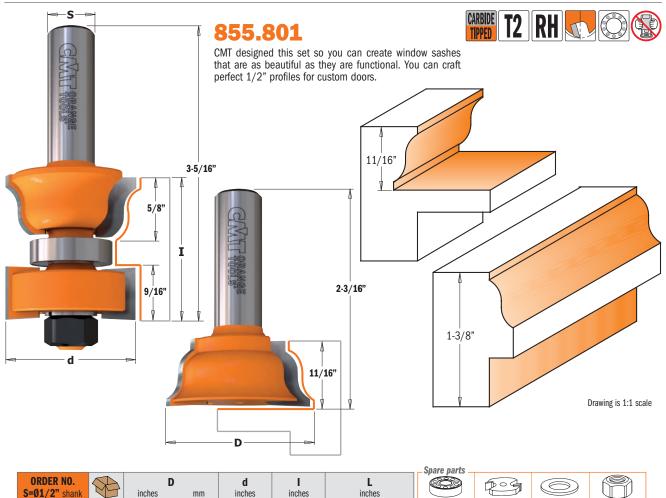




### Ovolo Sash Set







### STEP-BY-STEP WINDOW SASH CONSTRUCTION

1-3/8

3-5/16 - 2-3/16

### CMT set makes it easy!

In our step-by-step example for window sash construction, we used the following:
- CMT Window Sash Set (item #855.801.11)

1-1/2

38.1

5

- stiles cut 1-3/8" thick rails cut 1-3/8" thick

855.801.11

scran stock

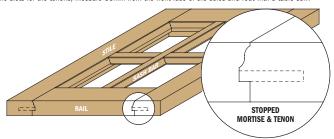
The CMT Window Sash Set was designed ideally for the construction of windows in 1-3/8" stock, however variations as narrow as 28mm can be used. Stock thicker than 1-3/8" exceeds the milling range of the cutter. Remember to adjust your measurements and cutting depths according to the wood thickness you use. We suggest making a trial joint in scrap stock according to the following steps before milling all of the cope and

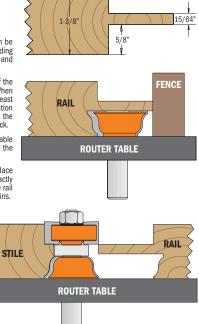
1-3/8

STEP 1 - Measurements and making the tenons. The ideal thickness of the stiles when using the CMT sash set is 1-3/8". The desired width of the stiles will determine the length you need to make your tenons, while the length of the stile will represent the desired full height of the sash. When cutting the rails to length, make sure to add the length of the two tenons to the overall length of the rail. The length of the two tenons to the overall length of the rail. The length of the tenons should be at least half the width of the stile. Mill 16mm measuring from the front face of the stock using a table saw, radial saw or router as shown in illustration 1. This measurement remains invariable since it is calculated to the height of the CMT sax fourters. The width of the tenon is 6mm. Rotate the stock and mill the other side. As per our example, the second milling will be 13mm but this measurement will vary if you are using thinner stock.

STEP 2 - Making the cope Profilee on rails, sash bar and muntins. To make the cope Profilee, place the rail face front down on the router table with the tenon flush to the bit as shown in illustration 2. Adjust the fence so the bit mills 1/4" deeper than the tenon. To mill the sash bar and the muntins (cross bars), position front face down on the router table and mill without changing the height of the bit.

STEP 3 - Making the stick Profilee on rails, stile, sash bar and muntins. To mill the stick Profilee along the inside edges of all sash parts, place the already milled cope Profilee front face down on the router table and adjust the sash bit so that the lower edge of the top cutter will exactly touch the upper edge of the tenon as shown in need to 3 illustrations. With the rail still face down on the table, turn it so the inside edge of the rail is touching the bit and mill the stick Profilee. Mill the inside edges of the stiles and mill both edges of the front face of the sash bar and muntins. To cut the slots for the tenons, measure 16mm from the front face of the stiles and rout with a table saw.





541.518.00

990.020.00

822.004.11

791.012.00

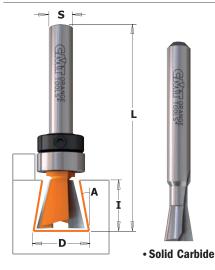
### **Dovetail Bits**









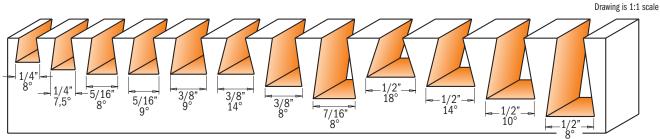


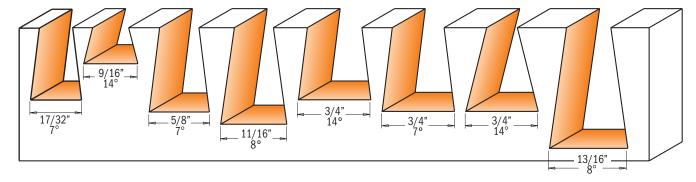
818 - 818B

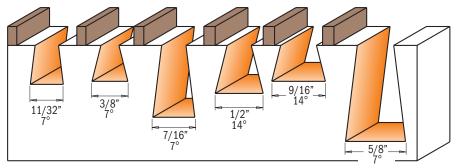
The beautifully crafted dovetail joint is a classic that appeals to both professionals and novices alike.

**SHOP TIPS:** Two passes are recommended when routing dovetails with a template. Check that the dovetails have been cut through completely and smoothly before removing the workpiece. For even easier routing and less stress on your dovetail bit, run the first pass with a straight bit. Use a dovetail on your router table equipped with a fence to achieve difficult chamfer angles.

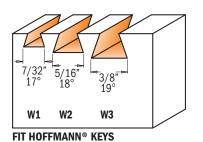
SAFETY TIPS: If the dovetail bit jams while working, adjust the position of the bit in the collet and ensure the cutting depth is appropriate. Do not lift the router out of the template.



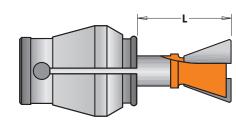




Fit Manufacturer Model	ORDER NO.
CMT-Enlock10 CMT-Enlock15	818.098.11B 818.128.11B
CMT300	818.128.11 818.628.11



184



Man FIT H	ufacturer/Model OFFMANN® KEYS	ORDER NO.
W1	L=16mm	818.053.11
W2	L=17.5mm	818.079.11
W3	L=19mm	818.093.11

### **Dovetail Bits**



ORDER NO. S=Ø1/4" shank	ORDER NO. S=01/2" shank		inches	<b>D</b>	l inches	A	L inches	APPLICATION
•818.065.11	,	10	1/4	6.35	1/4	8°	2	For Leigh Jig
•818.064.11	•818.564.11	10	1/4	6.35	5/16	7.5°	2-1/2	For Incra Jig
•818.081.11		10	5/16	7.94	3/8	8°	2-1/8	For Leigh Jig
•818.080.11		10	5/16	7.94	3/8	9°	2-1/16	For Incra Jig
	• 818.580.11	10	5/16	7.94	3/8	9°	2-1/2	For Incra Jig
•818.096.11		10	3/8	9.52	3/8	9°	2-1/16	For Incra Jig
	818.596.11	10	3/8	9.52	3/8	9°	2-1/2	For Incra Jig
•818.098.11		10	3/8	9.52	3/8	14°	2-3/8	
818.097.11		10	3/8	9.52	1/2	8°	2-3/8	For Leigh Jig
818.111.11		10	7/16	11.1	5/8	8°	2-3/8	For Leigh Jig
818.132.11		10	1/2	12.7	13/32	18°	2-3/8	For Leigh Jig
818.128.11		10	1/2	12.7	1/2	14°	2-1/16	For Incra Jig
	818.628.11	10	1/2	12.7	1/2	14°	2-1/2	For Incra Jig
818.130.11		10	1/2	12.7	1/2	14°	2-7/16	For Leigh Jig
818.133.11		10	1/2	12.7	5/8	10°	2-3/8	For Leigh Jig
818.129.11		10	1/2	12.7	13/16	8°	2-3/4	For Leigh Jig
	818.635.11	10	17/32	13.5	3/4	7°	2-27/64	For PORTER-CABLE®
818.142.11		10	9/16	14.2	3/8	14°	2	
818.158.11		10	5/8	15.87	7/8	7°	2-3/8	For Incra Jig
	818.658.11	10	5/8	15.87	7/8	7°	2-5/8	For Incra Jig
	818.674.11	10	11/16	17.4	1	8°	3-1/16	For Leigh Jig
	818.691.11	10	3/4	19.05	3/4	14°	3-1/16	
818.190.11		10	3/4	19.05	7/8	7°	2-3/8	For Incra Jig
	818.690.11	10	3/4	19.05	7/8	7°	2-5/8	For Incra Jig
818.191.11		10	3/4	19.05	7/8	14°	2-3/8	
	818.706.11	10	13/16	20.6	1-1/4	8°	3-5/16	For Leigh Jig
	818.722.11	10	7/8	22.2	7/8	7°	2-3/4	
WITH TOP BEARI	ING GUIDE							
•818.087.11B		10	11/32	8.73	13/32	7°	2-1/4	
•818.098.11B		10	3/8	9.52	3/8	14°	2-3/8	For CMT-Enlock1
818.113.11B		10	7/16	11.1	3/4	7°	2-5/8	
818.128.11B		10	1/2	12.7	1/2	14°	2-1/16	For CMT-Enlock1
818.142.11B		10	9/16	14.2	3/8	14°	2	
	ING (Ø3/8" SHA							
	9.11B*	10	5/8	15.87	1	7°	2-11/16	
FIT HOFFMANN®	KEYS							
•818.053.11		10	7/32	5.5	5/32	17°	1-11/16	For HOFFMANN® W1
•818.079.11		10	5/16	7.94	15/64	18°	1-11/16	For HOFFMANN® W2
•818.093.11		10	3/8	9.52	9/32	19°	1-11/16	For HOFFMANN® W3

818



791.009.00 541.001.00 791.010.00 541.001.00 791.009.00 541.001.00 791.010.00 541.001.00 791.010.00 541.001.00 791.021.00 541.006.00

Spare parts

**Spare parts: 990.005.00** M3x3mm TSEI screw **991.056.00** 1.5mm hex key

• Solid Carbide



### A FEW OF THE BEAUTIFUL DOVETAIL JOINTS YOU CAN PRODUCE USING CMT BITS $\cdot$



Through Dovetail



Half-Blind dovetail

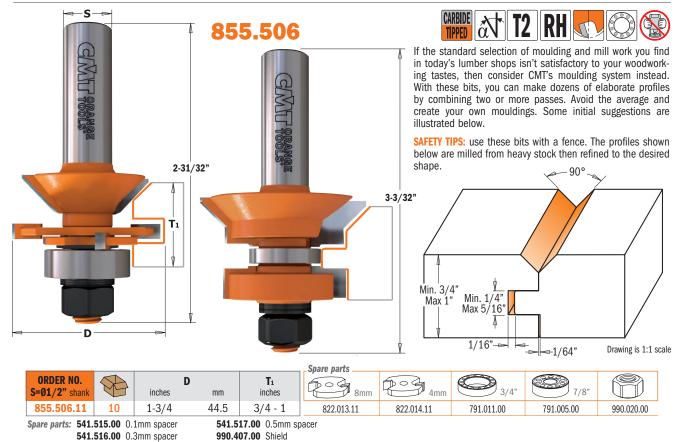


Variable-Spaced Dovetail

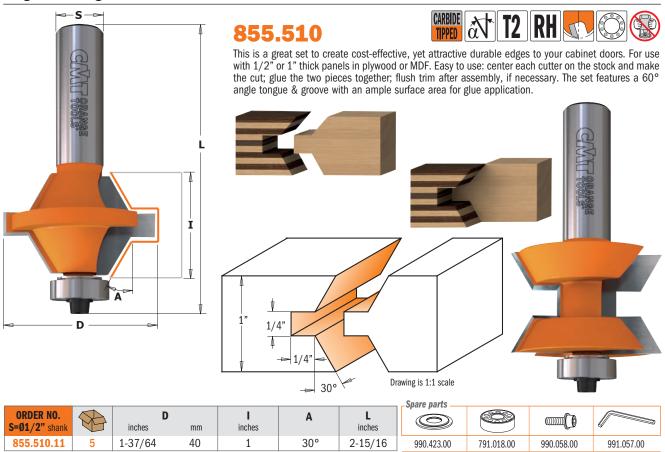


Sliding Dovetail

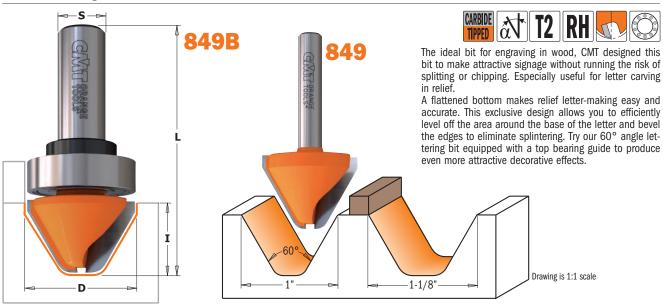




### Edge Banding Bits Set



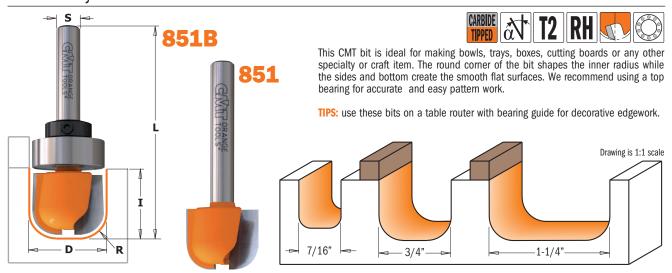




ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	I inches	A	<b>L</b> inches	Spare parts		
849.001.11		10	1	25.4	3/4	60°	2			
	849.501.11	10	1-1/8	28.5	3/4	60°	2-1/2			
WITH TOP BEARI	NG GUIDE									
	849.501.11B	10	1-1/8	28.5	3/4	60°	2-1/2	791.027.00	541.002.00	991.056.00

Spare parts: 990.005.00 M3x3mm STEI screw

### **Bowl & Tray Bits**



								_Spare parts _		
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	l inches	R inches	L inches			
851.001.11		10	7/16	11.1	1/2	1/8	1-51/64			
851.002.11		10	3/4	19.05	5/8	1/4	2-1/8			
	851.501.11	10	3/4	19.05	5/8	1/4	2-3/8			
	851.502.11	10	1-1/4	31.7	5/8	1/4	2-3/8			
WITH TOP BEARI	NG GUIDE									
851.002.11B		10	3/4	19.05	5/8	1/4	2-1/8	791.004.00	541.001.00	991.056.00
	851.501.11B	10	3/4	19.05	5/8	1/4	2-3/8	791.011.00	541.002.00	991.056.00
	851.502.11B	10	1-1/4	31.7	5/8	1/4	2-3/8	791.015.00	541.002.00	991.056.00

Spare parts: 990.005.00 M3x3mm STEI screw



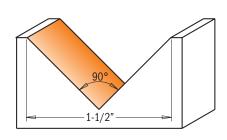
CARBIDE CARBIDE T2 RH

### 815 - 815B

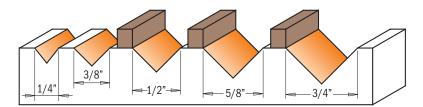
These double cutting edge CMT bits offer an almost endless range of woodworking possibilities. Make clean, perfect cuts in panels, drawer fronts or even plasterboard panels; chamfer edges or engrave beautiful lettering.

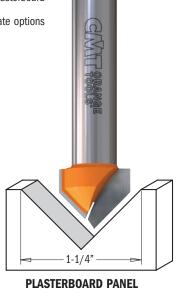
In addition, CMT has versatile top bearing bits that allow for several template options of your choice (see series 815B).

TIPS: these bits perfectly chamfer at 45° angles (Two tools in one).



Drawing is 1:1 scale





ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	l inches	l <sub>1</sub> inches	A	L inches				
•815.064.11		10	1/4	6.35	5/16	1/8	90°	1-1/2				
815.095.11		10	3/8	9.52	1/2	3/16	90°	1-3/4				
815.127.11		10	1/2	12.7	1/2	1/4	90°	1-3/4				
	815.660.11	10	5/8	15.87	1/2	5/16	90°	2-1/2				
	815.690.11	10	3/4	19.05	5/8	3/8	90°	2-1/2				
	815.817.11	10	1-1/4	31.7	3/4	5/8	90°	2-1/2				
	815.880.11	10	1-1/2	38.1	1-1/8	3/4	90°	2-3/4				
WITH TOP BEARI	WITH TOP BEARING GUIDE											
815.127.11B		10	1/2	12.7	1/2	1/4	90°	1-3/4				
	815.690.11B	10	3/4	19.05	5/8	3/8	90°	2-1/2				

_Spare parts		
791.010.00	541.001.00	991.056.00
791.011.00	541.002.00	991.056.00

Solid Carbide





### 815

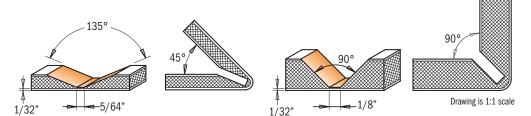
CARBIDE TIPPED





ALUCOBOND® panels are an aluminium composite material that can be shaped using a very simple processing method. This technique referred to as the 'routing and folding' method which means paneling can be manipulated to form a variety of shapes and sizes. The advantages of this unique technique are:

- Low investment cost
- Simple fabrication technique
- Folding can be done on site, saving transportation costs
- Low-cost fabrication of shaped components, wall cladding, roof edgings, column cladding, flashings, etc.
- Flexibility in creating shapes
- Very cost effective
- Shapes are not limited by machine capacity.



ORDER NO. S=Ø1/4" shank	8	inches <b>D</b>	mm	I inches	A	L inches
815.001.11	10	45/64	18	19/64	90°	2-23/64
815.002.11	10	45/64	18	1/8	135°	2-23/64

### Laser Point Bit



ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	mm	inches	A	Т	L inches
•858.002.11		10	1/4	6.35	3/8	35°	1	2
858.001.11		10	1/2	12.7	7/16	60°	3	2-1/4
	858.501.11	10	1/2	12.7	7/16	60°	3	2-3/8
858.003.11		10	1/2	12.7	25/64	60°	2	2

### V-Grooving & Signmaking Router Bits with indexable knives (90°)





### 665

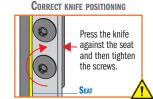
These bits have been designed for signmaking and lettering. When the insert shows signs of wear, you can simply rotate it to exploit the other cutting edges. A locking screw secures the insert tightly for added safety and extreme cutting accuracy.

### **TECHNICAL DETAILS:**

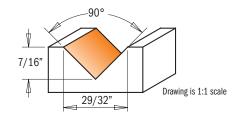
- Super strength steel.
- 1 T.C.T. precision insert knife [T1].

### SAFFTY TIPS









ORDER NO. S=Ø1/4" shank	8	<b>D</b> inches	mm	I inches	A	L inches
665.201.11	10	29/32	23	7/16	90°	2-3/8

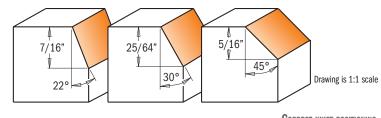


### Chamfer Bits with Insert Knives



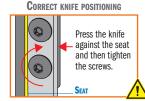
### **659**

Chamfer trim bits feature two replaceable knives fixed by special TORX® screws. The knives are sharpened on all sides and can be resharpened up to three times. For slight bevelled edges or decorative edgework in a variety of materials. Equipped with bearing guides with no need for counterprofiles. For use on portable routers.



Chara narte





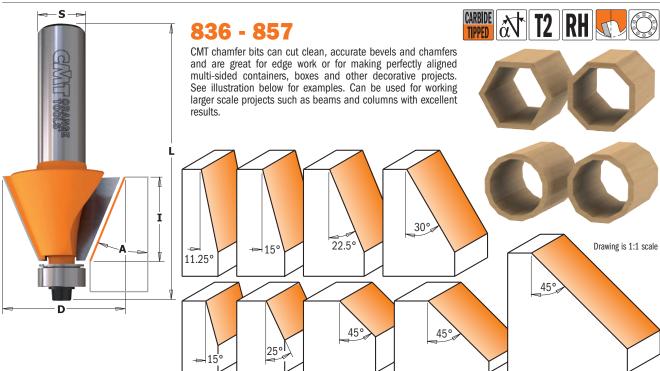
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	<b>D</b> inches	mm	A	inches	L inches	opare parts _		
659.023.11		10	63/64	25	22°	7/16	2-15/32	790.120.00	990.075.00	791.006.00
659.031.11		10	1-7/64	28	30°	25/64	2-9/16	790.120.00	990.075.00	791.006.00
659.046.11		10	1-9/64	29	45°	5/16	2-13/32	790.120.00	990.075.00	791.022.00
	659.646.11	10	1-9/64	29	45°	5/16	2-23/32	790.120.00	990.075.00	791.022.00

Spare parts: 990.400.00 Ø3.2/Ø7mm shield for M3 screw

**990.051.00** M3x6mm TCEI screw **991.062.00** 2.5mm hex key **991.061.00** T15 TORX® key

190





ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank		<b>D</b> inches	mm	A	l inches	L inches				
836.130.11		10	3/4	19.05	15°	7/16	2-5/32	990.423.00	791.003.00	990.058.00	991.057.00
836.190.11		10	7/8	22.2	25°	13/32	2-5/32	990.423.00	791.003.00	990.058.00	991.057.00
836.280.11		10	1-1/4	31.7	45°	3/8	2-3/32	990.423.00	791.003.00	990.058.00	991.057.00
836.420.11		10	1-49/64	45	45°	23/32	2-3/8	990.423.00	791.003.00	990.058.00	991.057.00
	836.920.11	10	1-49/64	45	45°	23/32	2-5/8	990.423.00	791.003.00	990.058.00	991.057.00
	836.950.11	10	2-9/16	65	45°	1	3-1/32	990.423.00	791.003.00	990.058.00	991.057.00
	857.504.11	10	7/8	22.2	11.25°	7/8	2-13/16	990.423.00	791.003.00	990.058.00	991.057.00
	857.503.11	10	1	25.4	15°	7/8	2-13/16	990.423.00	791.003.00	990.058.00	991.057.00
	857.502.11	10	1-1/4	31.7	22.5°	7/8	2-13/16	990.423.00	791.003.00	990.058.00	991.057.00
	857.501.11	10	1-1/2	38.1	30°	7/8	2-13/16	990.423.00	791.003.00	990.058.00	991.057.00

SHOP TIPS: After resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)

1/2" Shank

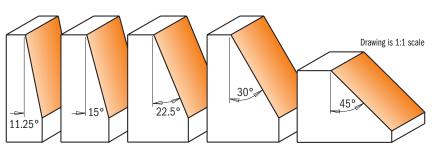
# 836.501.11 Chamfer Set

This set includes 5 anti-kickback carbide-tipped bits to make angled cuts and polygonal projects easier and more accurate in the most popular angles.

### Chamfer Set

	~		ы	
-	_	-		

SET CONTAINS	ORDER NO.	D	D			
SEI CONTAINS	<b>S=Ø1/2"</b> shank	inches	mm			
Chamfer bit	857.504.11	7/8	22.2	11.25°		
Chamfer bit	857.503.11	1	25.4	15°		
Chamfer bit	857.502.11	1-1/4	31.7	22.5°		
Chamfer bit	857.501.11	1-1/2	38.1	30°		
Chamfer bit	836.920.11	1-49/64	45	45°		

















# I R

### 814B

SOLID CARBIDE TIPPED







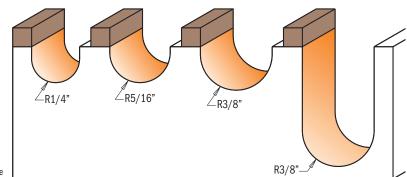




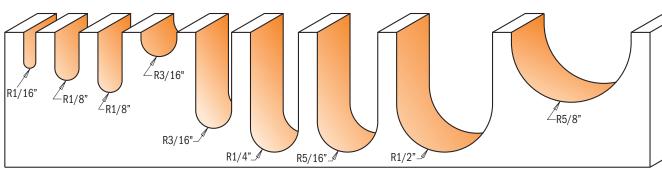
bits in solid carbide featuring carbide tipped flutes let you create delicate and decorative accents in any wood or wood derivative.

Personalize your doors, drawer fronts, panels or any surface with your own signature motif. CMT round nose

**SHOP TIPS:** more than one pass is recommended when making cove edges. To prevent splintering, begin with a shallow initial pass and deepen gradually. Never use pieces shorter than 600mm.







ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank		inches F	R mm	<b>D</b> inches	inches	L inches
•814.032.11		10	1/16	1.6	1/8	3/8	2
•814.064.11		10	1/8	3.2	1/4	1/2	2
	• 814.564.11	10	1/8	3.2	1/4	5/8	2-1/2
814.095.11		10	3/16	4.75	3/8	1/4	2
	814.595.11	10	3/16	4.75	3/8	1	2-5/8
814.127.11		10	1/4	6.35	1/2	3/8	2
	814.627.11	10	1/4	6.35	1/2	1-1/4	2-7/8
814.160.11		10	5/16	7.94	5/8	3/8	2
	814.660.11	10	5/16	7.94	5/8	1-1/4	2-7/8
814.190.11		10	3/8	9.52	3/4	7/16	2
	814.690.11	10	3/8	9.52	3/4	1-1/4	2-7/8
	814.721.11	10	7/16	11	7/8	1	2-1/2
	814.754.11	10	1/2	12.7	1	1-1/4	2-7/8
	814.817.11	10	5/8	15.87	1-1/4	3/4	2-5/16
	814.880.11	10	3/4	19.05	1-1/2	1-1/4	2-3/4
	814.990.11	10	1	25.4	2	1-1/4	2-3/4
WITH TOP BEARI	NG GUIDE						
814.127.11B		10	1/4	6.35	1/2	3/8	2
814.160.11B		10	5/16	7.94	5/8	3/8	2
814.190.11B		10	3/8	9.52	3/4	7/16	2
	814.690.11B	10	3/8	9.52	3/4	1-1/4	2-7/8

	A 11 1	
•	Solid	Carbide



_Spare parts _	
791.010.00	541.001.00
791.009.00	541.001.00
791.004.00	541.001.00
791.011.00	541.002.00

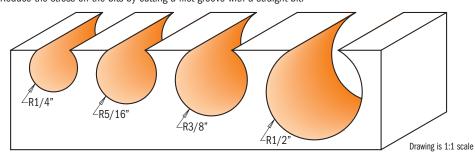
**Spare parts: 990.005.00** M3x3mm TSEI screw **991.056.00** 1.5mm hex key



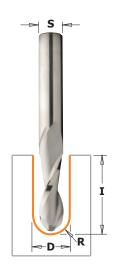


### 868

Cut channels for pipes or cables in one single pass using CMT's ball end bits. Reduce the stress on the bits by cutting a first groove with a straight bit.



ORDER NO. S=Ø1/2" shank	8	inches	R mm	<b>D</b> inches	inches	L inches
868.627.11	10	1/4	6.35	1/2	7/16	2-1/4
868.658.11	10	5/16	7.94	5/8	9/16	2-3/8
868.690.11	10	3/8	9.52	3/4	11/16	2-1/2
868.754.11	10	1/2	12.7	1	59/64	2-3/4



### Solid Carbide Upcut Ball Nose Spiral Bits

199

These new bits are used for ripping, template routing, panel sizing and any routing application in solid wood, wood composites, laminates, plastics, solid surface and aluminum. Can be used at a high feed speed on well-clamped workpieces, on machining centres, point to point machines, CNC routers and hand-held routers equipped with chucks or adaptors.

ORDER NO.	8	R	mm	<b>D</b> inches	I inches	<b>S</b> inches	L inches
199.001.11	10	1/16	1.6	1/8	1/2	1/4	2
199.008.11	10	1/8	3.2	1/4	1	1/4	2-1/2
199.504.11	10	3/16	4.75	3/8	1-1/8	3/8	3
199.505.11	10	1/4	6.35	1/2	1-1/4	1/2	3
199.509.11	10	5/16	7.94	5/8	2-1/4	5/8	4-5/16
199.511.11	10	3/8	9.52	3/4	2-1/4	3/4	4-5/16

### Round Nose Set



Each of these sets include 3 of the most widely used CMT Round Nose bits. These solid carbide or carbide tipped bits are perfect for sign making, engraving, or adding flutes and veins to doors or drawer fronts. Available in 1/4" and 1/2" shanks.







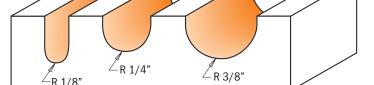




Drawing is 1:1 scale



<b>814.00</b>	1.11		1/	4" Shank
SET CONTAINS	ORDER NO. S=Ø1/4" shank	inches	l mm	I inches
Round nose bit	814.064.11	1/8	3.2	1/2
Round nose bit	814.127.11	1/4	6.35	3/8
Round nose bit	814.190.11	3/8	9.52	7/16



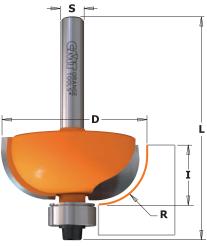
814.501.11

1/2" Shank

SET CONTAINS	ORDER NO. S=Ø1/2" shank	R	mm	inches
Round nose bit	814.564.11	1/8	3.2	5/8
Round nose bit	814.627.11	1/4	6.35	1-1/4
Round nose bit	814.690.11	3/8	9.52	1-1/4







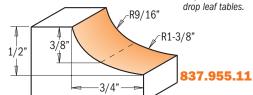
### 837

Make simple or elegant furniture, doors and drawer fonts by adding a final touch with CMT cove bits.

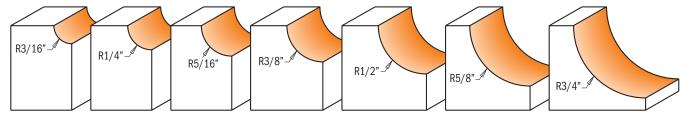
**TIPS:** rounded edges provide a very refined and elegant look.







Drawing is 1:1 scale



								_Spare parts _			
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	R mm	<b>D</b> inches	inches	L inches				
837.190.11		10	3/16	4.75	7/8	1/2	2-5/32	990.423.00	791.003.00	990.058.00	991.057.00
	837.690.11	10	3/16	4.75	7/8	1/2	2-13/32	990.423.00	791.003.00	990.058.00	991.057.00
837.222.11		10	1/4	6.35	1	1/2	2-5/32	990.423.00	791.003.00	990.058.00	991.057.00
	837.722.11	10	1/4	6.35	1	1/2	2-13/32	990.423.00	791.003.00	990.058.00	991.057.00
837.254.11		10	5/16	7.94	1-1/8	1/2	2-1/8	990.423.00	791.003.00	990.058.00	991.057.00
	837.754.11	10	5/16	7.94	1-1/8	1/2	2-3/8	990.423.00	791.003.00	990.058.00	991.057.00
837.286.11		10	3/8	9.52	1-1/4	1/2	2-1/8	990.423.00	791.003.00	990.058.00	991.057.00
	837.786.11	10	3/8	9.52	1-1/4	1/2	2-3/8	990.423.00	791.003.00	990.058.00	991.057.00
837.350.11		10	1/2	12.7	1-1/2	5/8	2-9/32	990.423.00	791.003.00	990.058.00	991.057.00
	837.850.11	10	1/2	12.7	1-1/2	5/8	2-17/32	990.423.00	791.003.00	990.058.00	991.057.00
	837.950.11	10	5/8	15.87	1-3/4	3/4	2-41/64	990.423.00	791.003.00	990.058.00	991.057.00
	837.951.11	10	3/4	19.05	2	7/8	2-25/32	990.423.00	791.003.00	990.058.00	991.057.00
	837.955.11	10	See dra	wing	2	1/2	2-13/32	990.423.00	791.003.00	990.058.00	991.057.00

### Cove Bit Set











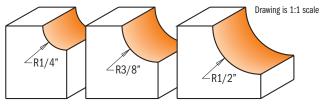


1/4" Shank

837.001.11

			-,	
SET CONTAINS	ORDER NO. S=Ø1/4" shank	inches	l mm	inches
Cove bit	837.222.11	1/4	6.35	1/2
Cove bit	837.286.11	3/8	9.52	1/2
Cove bit	837.350.11	1/2	12.7	5/8

See simple furniture, doors and drawer fronts transform into elegant pieces by giving them a final touch with a CMT Cove Bit. Available with 1/4", 3/8" and 1/2" radius bits of your choice or 1/4" or 1/2" shank.



837.501.11

1/2" Shank

SET CONTAINS	ORDER NO. S=Ø1/2" shank	inches	R mm	I inches
Cove bit	837.722.11	1/4	6.35	1/2
Cove bit	837.786.11	3/8	9.52	1/2
Cove bit	837.850.11	1/2	12.7	5/8

### Cavetto Edge Mould Bits





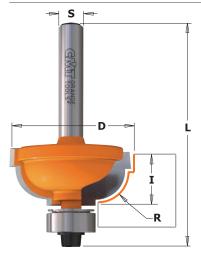












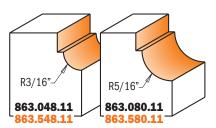
### 863 - 864

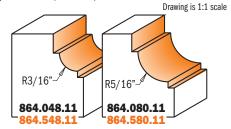
The cavetto bit cuts beautiful, traditional profiles, but you may also use just a portion of the bit to cut a more simple and cleaner cove edge.

SAFETY TIPS: poor assembly may lead to unscrewing and loss of the bearing during operation.

**SHOP TIPS:** after resharpening, replace bearing as follow:

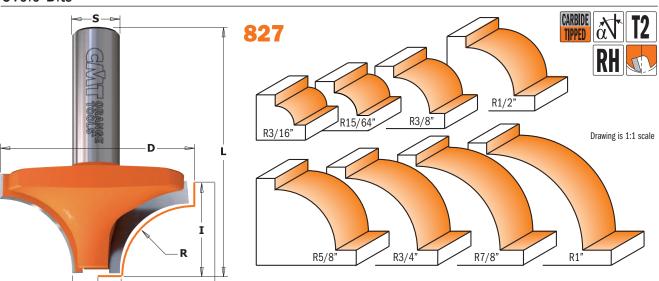
791.002.00 (Ø9.5mm) with undersized bearing **791.062.00** (Ø9.3mm) 791.003.00 (Ø12.7mm) with undersided bearing **791.063.00** (Ø12.5mm)





ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	R	mm	<b>D</b> inches	inches	L inches	Spare parts			
863.048.11		10	3/16	4.76	1	29/64	2-1/8	990.423.00	791.003.00	990.058.00	991.057.00
	863.548.11	10	3/16	4.76	1	29/64	2-3/8	990.423.00	791.003.00	990.058.00	991.057.00
863.080.11		10	5/16	7.94	1-1/4	9/16	2-1/4	990.423.00	791.003.00	990.058.00	991.057.00
	863.580.11	10	5/16	7.94	1-1/4	9/16	2-15/32	990.423.00	791.003.00	990.058.00	991.057.00
864.048.11		10	3/16	4.76	1	29/64	2-3/32	990.422.00	791.002.00	990.058.00	991.057.00
	864.548.11	10	3/16	4.76	1	29/64	2-5/16	990.422.00	791.002.00	990.058.00	991.057.00
864.080.11		10	5/16	7.94	1-1/4	9/16	2-5/32	990.422.00	791.002.00	990.058.00	991.057.00
	864.580.11	10	5/16	7.94	1-1/4	9/16	2-13/32	990.422.00	791.002.00	990.058.00	991.057.00

### Ovolo Bits



The perfect bit for furniture makers, the CMT ovolo allows you to make beautiful beadwork, edgework and veins as well as a wide variety of single and double bead profiles and roundovers.

**SAFETY TIPS:** pay particular attention to never rush the job when using a large profile bit. Mill pieces with a fence mounted on the work table to ensure maximum protection.

ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	R mm	<b>d</b> inches	<b>D</b> inches	I inches	L inches
827.050.11		10	3/16	5	7/16	13/16	15/32	1-23/32
827.060.11		10	15/64	6	7/16	29/32	15/32	1-23/32
	827.560.11	10	15/64	6	7/16	29/32	15/32	1-31/32
827.095.11		10	3/8	9.52	1/2	1-1/4	5/8	1-7/8
	827.595.11	10	3/8	9.52	1/2	1-1/4	5/8	2-1/8
827.127.11		10	1/2	12.7	1/2	1-1/2	3/4	2
	827.627.11	10	1/2	12.7	1/2	1-1/2	3/4	2-1/4
	827.660.11	10	5/8	15.87	1/2	1-3/4	7/8	2-3/8
	827.690.11	10	3/4	19.05	1/2	2	1	2-1/2
	827.722.11	10	7/8	22.2	1/2	2-1/4	1-1/8	2-5/8
	827.754.11	10	1	25.4	1/2	2-1/2	1-5/16	2-13/16

### **Roundover Bits**





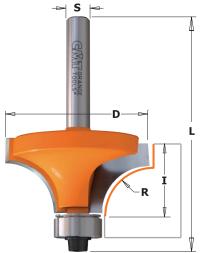
Snare narts











838

All CMT roundover bits provide a wide variety of profiles to create beautiful decorative edgework on furniture or boats. Lower the bit to expose the straight part of the cutting edge in this way you can apply a decorative edge to tables, shelves and beams.

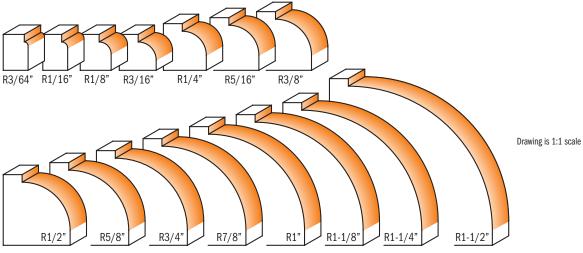
**SHOP TIPS:** use the 1.6mm radius roundover bit for finishing laminates. A simple height adjustment helps save time on finishing.

**SAFETY TIPS:** use caution when working with large diameter bits and make more than one pass to gradually remove stock.

SHOP TIPS: after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)



DELRIN® 791.044.00



								, - Spare parts -			
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	R mm	<b>D</b> inches	inches	L inches				
838.147.11°		10	3/64	1	37/64	3/8	2	990.422.00	791.044.00	990.058.00	991.057.00
838.160.11		10	1/16	1.6	5/8	1/2	2-9/64	990.423.00	791.003.00	990.058.00	991.057.00
838.167.11°		10	5/64	2	21/32	1/2	2-5/64	990.422.00	791.044.00	990.058.00	991.057.00
838.187.11		10	1/8	3	47/64	1/2	2-1/8	990.423.00	791.003.00	990.058.00	991.057.00
838.190.11°		10	1/8	3.2	3/4	1/2	2-9/64	990.422.00	791.044.00	990.058.00	991.057.00
838.222.11		10	3/16	4.75	7/8	1/2	2-9/64	990.423.00	791.003.00	990.058.00	991.057.00
838.254.11		10	1/4	6.35	1	1/2	2-9/64	990.423.00	791.003.00	990.058.00	991.057.00
	838.754.11	10	1/4	6.35	1	1/2	2-5/16	990.423.00	791.003.00	990.058.00	991.057.00
838.285.11		10	5/16	7.94	1-1/8	1/2	2-9/64	990.423.00	791.003.00	990.058.00	991.057.00
838.317.11		10	3/8	9.52	1-1/4	5/8	2-1/4	990.423.00	791.003.00	990.058.00	991.057.00
	838.817.11	10	3/8	9.52	1-1/4	5/8	2-7/16	990.423.00	791.003.00	990.058.00	991.057.00
838.380.11		10	1/2	12.7	1-1/2	3/4	2-25/64	990.423.00	791.003.00	990.058.00	991.057.00
	838.880.11	10	1/2	12.7	1-1/2	3/4	2-41/64	990.423.00	791.003.00	990.058.00	991.057.00
838.445.11		10	5/8	15.87	1-3/4	7/8	2-1/2	990.423.00	791.003.00	990.058.00	991.057.00
	838.945.11	10	5/8	15.87	1-3/4	7/8	2-3/4	990.423.00	791.003.00	990.058.00	991.057.00
	838.990.11	10	3/4	19.05	2	1	2-57/64	990.423.00	791.003.00	990.058.00	991.057.00
	838.991.11	10	7/8	22.2	2-1/4	1-1/8	3-1/32	990.423.00	791.003.00	990.058.00	991.057.00
	838.992.11*	10	1	25.4	2-1/2	1-5/16	3-13/64	990.423.00	791.003.00	990.058.00	991.057.00
	838.993.11*	10	1-1/8	28.6	3	1-1/2	3-1/2	990.425.00	791.004.00	990.058.00	991.057.00
	838.994.11*	10	1-1/4	31.7	3-1/4	1-3/4	3-49/64	990.425.00	791.004.00	990.058.00	991.057.00
	838.996.11*	10	1-1/2	38.1	3-1/2	1-3/4	3-41/64	990.423.00	791.003.00	990.058.00	991.057.00

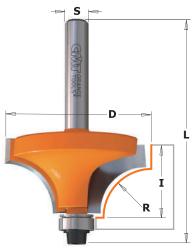
**Spare parts: 541.550.00** 1.6mm spacers (838.993.11 and 838.994.11)

\*For use on router tables only

°791.044.00 DELRIN® Bearing

### **Beading Bits**





### 839



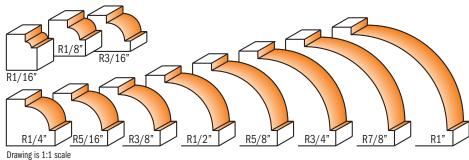








If you want to create a delicate inset at the base of the cut of a roundover profile, simply switch the bearing normally used for making profiles 838 (listed on the following page) to the undersized one listed below (791.002.00).



								_Spare parts _			
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank		inches	R mm	<b>D</b> inches	inches	L inches				
839.160.11		10	1/16	1.6	5/8	1/2	2-1/16	990.422.00	791.002.00	990.058.00	991.057.00
839.190.11		10	1/8	3.2	3/4	1/2	2-1/16	990.422.00	791.002.00	990.058.00	991.057.00
839.222.11		10	3/16	4.75	7/8	1/2	2-1/16	990.422.00	791.002.00	990.058.00	991.057.00
839.254.11		10	1/4	6.35	1	1/2	2-1/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.754.11	10	1/4	6.35	1	1/2	2-5/16	990.422.00	791.002.00	990.058.00	991.057.00
839.285.11		10	5/16	7.94	1-1/8	1/2	2-1/16	990.422.00	791.002.00	990.058.00	991.057.00
839.317.11		10	3/8	9.52	1-1/4	5/8	2-3/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.817.11	10	3/8	9.52	1-1/4	5/8	2-7/16	990.422.00	791.002.00	990.058.00	991.057.00
839.380.11		10	1/2	12.7	1-1/2	3/4	2-5/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.880.11	10	1/2	12.7	1-1/2	3/4	2-9/16	990.422.00	791.002.00	990.058.00	991.057.00
839.445.11		10	5/8	15.87	1-3/4	7/8	2-7/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.945.11	10	5/8	15.87	1-3/4	7/8	2-11/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.990.11	10	3/4	19.05	2	1	2-13/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.991.11	5	7/8	22.2	2-1/4	1-1/8	2-15/16	990.422.00	791.002.00	990.058.00	991.057.00
	839.992.11*	5	1	25.4	2-1/2	1-5/16	3-1/8	990.422.00	791.002.00	990.058.00	991.057.00

\*For use on router tables only.

### Roundover Set





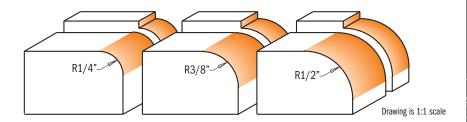








CMT's roundover sets give you the maximum flexibility for all of your projects by putting the most requested diameters in one package. Available in 1/2" and 1/4" shanks. Roundover radii are 1/4", 3/8" and 1/2". These versatile bits are always in demand - the simple clean lines of a smooth roundover edge can be used in a wide variety of applications from picture frames to table and counter tops.



838.001.11

1/4" Shank

SET CONTAINS	ORDER NO. S=Ø1/4" shank	inches	R mm	I inches
Roundover bit	838.254.11	1/4	6.35	1/2
Roundover bit	838.317.11	3/8	9.52	5/8
Roundover bit	838.380.11	1/2	12.7	3/4

838.501.11

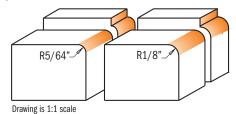
838.50	1.11		1/	2" Shank
SET CONTAINS	ORDER NO. S=Ø1/2" shank	inches	R mm	inches
Roundover bit	838.754.11	1/4	6.35	1/2
Roundover bit	838.817.11	3/8	9.52	5/8
Roundover bit	838.880.11	1/2	12.7	3/4



# S GRANGE R

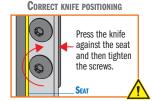
### 661.41

Roundover bits with two replaceable knives fixed by special TORX® screws. The blades are profiled on 4 sides and increase the efficiency of your work with laminates and chipboard, as well as hard and soft woods. For use on portable routers.



SAFETY TIPS:

The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).





Standard

R=1/8" 790.030.04

Optional

R=3/64" 790.010.04 R=1/16" 790.015.04 R=5/64" 790.020.04

ORDER NO.	4	R		D	I	L
<b>S=Ø1/4"</b> shank		inches	mm	inches	inches	inches
661.021.41	10	5/64	2	57/64	49/64	2-33/64
661.031.41	10	1/8	3	1/2	1/8	2-17/64

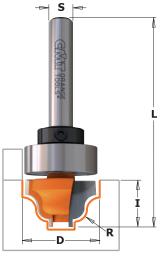
 Spare parts

 790.020.04
 990.078.00
 991.061.00
 791.003.00

 790.030.04
 990.078.00
 991.061.00
 791.003.00

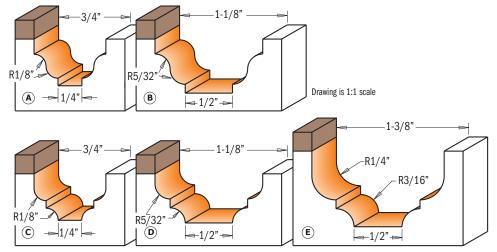
**Spare parts:** 990.423.00 Shield for 12.7mm bearing 990.058.00 1/8"x3/8"x1/2" TCEI screw 991.057.00 3/32" hex key

### Classical Bead Bits



### 865B

This bit equipped with a bearing fixed on the shank gives you even more decorative possibilities such as inlays and groove work on furniture panels, vitrines, and drawer fronts. A wide flat bottom cut and positioning just above the wood surface, lets you see the results immediately.



ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	<b>D</b>	R inches	I inches	L inches	PROFILE	Spare parts		
865.201.11B		10	3/4	19.05	1/8	31/64	2-1/8	Α	791.004.00	541.001.00	991.056.00
	865.702.11B	10	1-1/8	28.6	5/32	9/16	2-5/16	В	791.027.00	541.002.00	991.056.00
865.301.11B		10	3/4	19.05	1/8	31/64	2-1/8	С	791.004.00	541.001.00	991.056.00
	865.802.11B	10	1-1/8	28.6	5/32	17/32	2-9/32	D	791.027.00	541.002.00	991.056.00
	865.803.11B	10	1-3/8	34.9	1/4	23/32	2-39/64	E	791.029.00	541.002.00	991.056.00

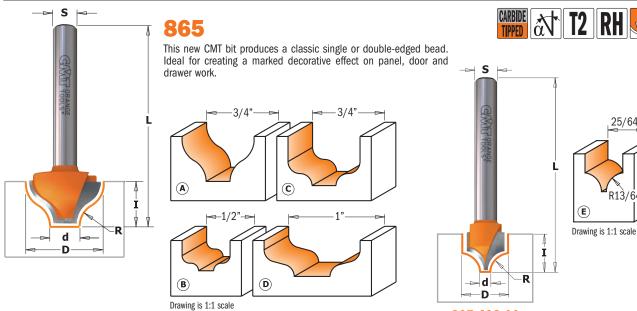
Spare parts: 990.005.00 M3x3mm TSEI screw

198

# **Decorative Beading Bits**

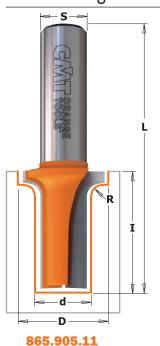


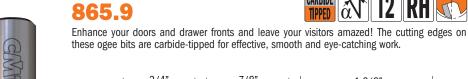
25/64"



<b>ORDER NO. S=Ø1/4"</b> shank	<b>ORDER NO. S=Ø1/2"</b> shank	8	inches	mm	d inches	R inches	l inches	L inches	PROFILE
865.402.11		10	25/64	10	1/16	13/64	25/64	1-31/32	E
865.002.11		10	1/2	12.7	5/32	5/64	5/16	2	В
865.001.11	865.501.11	10	3/4	19.05	1/4	1/4	7/16	2	Α
	865.503.11	10	3/4	19.05	1/4	1/8	33/64	2-43/64	С
	865.504.11	10	1	25.4	3/8	1/8	3/8	1-59/64	D

# Decorative Ogee Bits





865.903.11 865.904.11



865.402.11













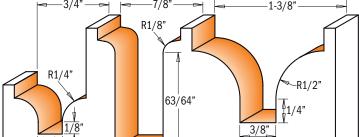












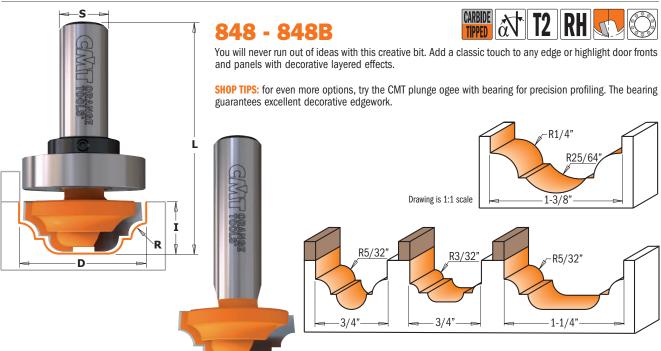
Drawing is 1:1 scale

1/4"

ORDER NO. S=Ø1/2" shank		inches	mm	<b>d</b> inches	R inches	I inches	L inches	PROFILE
865.903.11	10	3/4	19.05	1/4	1/4	33/64	2	В
865.905.11	10	7/8	22.2	1/2	1/8	1-1/4	2-3/4	С
865.904.11	10	1-3/8	34.9	3/8	1/2	63/64	2-37/64	D

© <u>1/2"</u> ₽





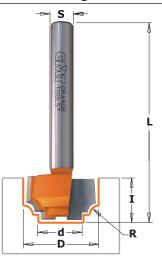
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	inches	) mm	R inches	I inches	L inches
848.190.11		10	3/4	19.05	5/32	1/2	2-1/64
848.191.11		10	3/4	19.05	3/32	7/16	2-3/32
	848.817.11	10	1-1/4	31.7	5/32	1/2	2-9/32
	848.850.11	10	1-3/8	34.9	1/4 - 25/64	45/64	2-43/64
WITH TOP BEARI	NG GUIDE						
848.190.11B		10	3/4	19.05	5/32	1/2	2-1/64
848.191.11B		10	3/4	19.05	3/32	7/16	2-3/32
	848.817.11B	10	1-1/4	31.7	5/32	1/2	2-9/32

_Spare parts _		
791.004.00	541.001.00	991.056.00
791.004.00	541.001.00	991.056.00
791.015.00	541.002.00	991.056.00

CARBIDE TIPPED TO THE TRANSPORT TO THE T

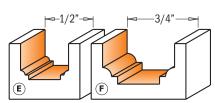
Spare parts: 990.005.00 M3x3mm TSEI screw

## Decorative Ogee Bits



### 865.1

This new CMT bit produces a classic single or double edged bead. Ideal for creating a marked decorative effect on panel, door and drawer work.

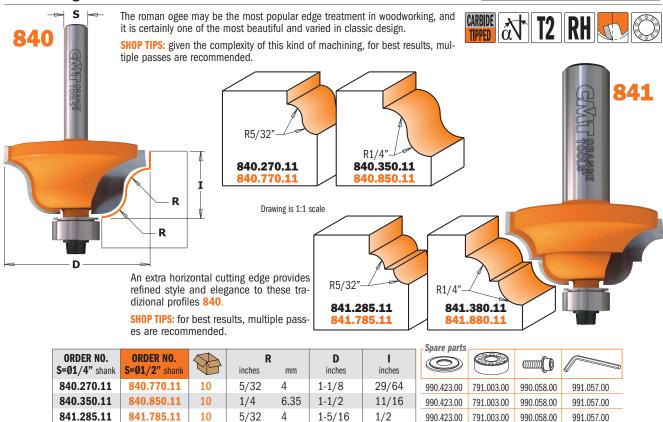


Drawing is 1:1 scale

ORDER NO. S=Ø1/4" shank		inches	mm	d inches	R inches	l inches	L inches	PROFILE
865.101.11	10	1/2	12.7	21/64	3/64	1/2	2	E
865.102.11	10	3/4	19.05	7/16	3/32	7/16	2	F

### Roman Ogee Bits





791.003.00 SHOP TIPS: after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)

990.058.00

991.057.00

990.423.00

### Classical Ogee Bits

845.350.11

845.850.11

10

1/4 - 3/16

841.380.11

841.880.11

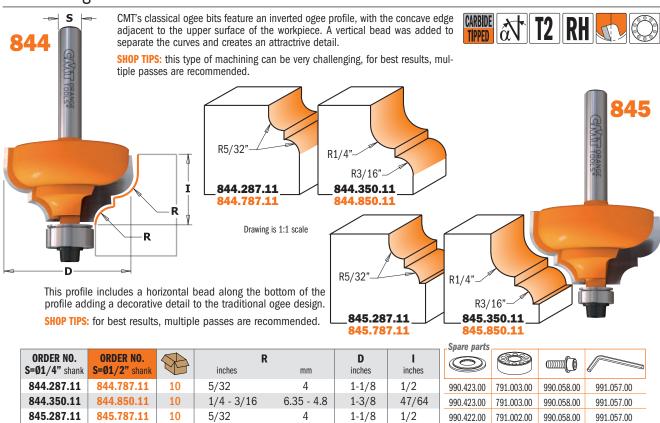
10

1/4

6.35

1-11/16

3/4



6.35 - 4.8

1-3/8

47/64

990.422.00

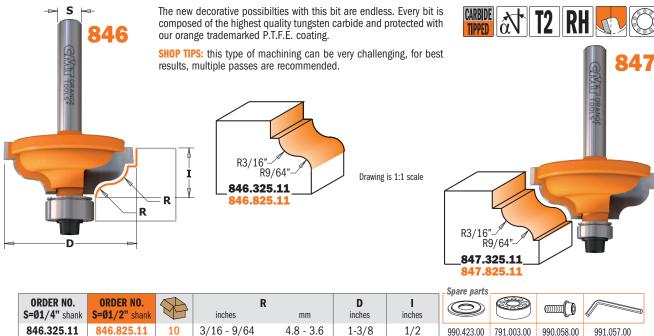
791.002.00

991.057.00

990.058.00

### Ogee with Fillet Bits





4.8 - 3.6

1-3/8

SHOP TIPS: after resharpening, replace bearing as follow:

990.423.00

1/2

791.002.00 (Ø9.5mm) with undersized bearing **791.062.00** (Ø9.3mm) 791.003.00 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)

791.003.00

990.058.00

991.057.00

## Ogee Bits

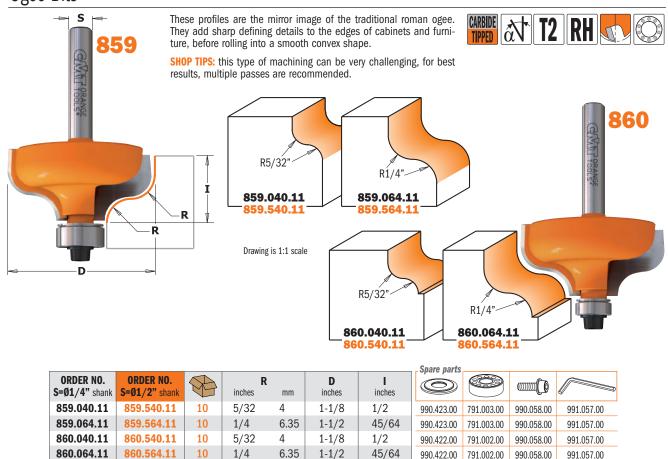
847.325.11

847.825.11

10

3/16 - 9/64

••••



SHOP TIPS: after resharpening, replace bearing as follow: 791.002.00 (Ø9.5mm) with undersized bearing **791.062.00** (Ø9.3mm) 791.003.00 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)



# 800.623







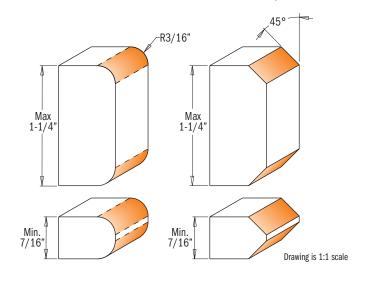






These CMT bits are ideal for making attractive edgework! Create a double 3/16" (4.76mm) roundover profile, a double 45° bevel or even a mixed profile on your wood panels easily and in a cost-effective way! Interchangeable shims are included to allow for different stock thicknesses according to the board.

To be used on table-mounted routers. Do not use these bits with hand-held power tools.



ORDER NO. S=Ø1/2" shank	8	inches <b>D</b>	mm	T <sub>1</sub> inches	R inches	A	L inches
800.623.11	10	1-1/2	38.1	7/16 - 1-1/4	3/16	45°	3-15/16

Spare parts 824.137.00 791.037.00 822.029.11 822.030.11

Spare parts: 541.500.00 3mm spacer 541.515.00 0.1mm spacer 541.517.00 0.5mm spacer **541.518.00** 1mm spacer

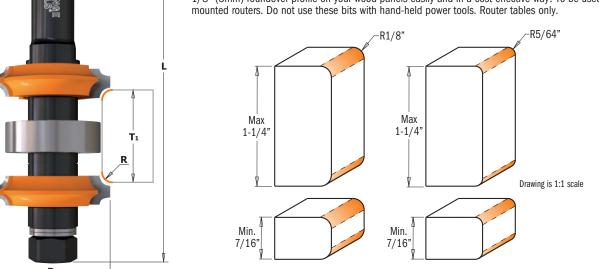
541.519.00 5.8mm spacer 990.020.00 Nut for arbor, M8 thread

## Adjustable Double Roundover Router Bits

### 800.622



Create awesome furnishing decorations with these new CMT bits! They provide a double 5/64" (2mm) and 1/8" (3mm) roundover profile on your wood panels easily and in a cost-effective way! To be used on table-



ORDER NO. T<sub>1</sub> R R L **S=Ø1/2"** shank inches inches inches inches mm inches 800.622.11 1-11/32 7/16 - 1-1/4 1/8 5/64 3-15/16

824.137.00 822.031.11 822.032.11

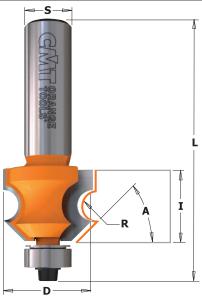
**541.517.00** 0.5mm spacer **541.518.00** 1mm spacer

541.519.00 5.8mm spacer 990.020.00 Nut for arbor, M8 thread

Spare parts

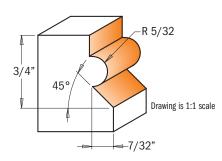


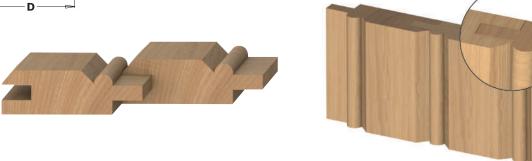


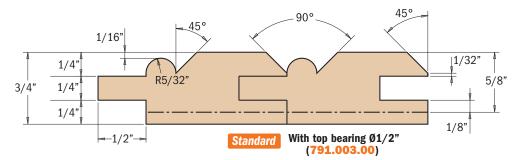


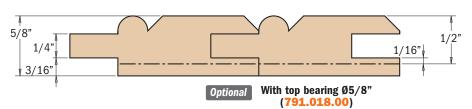
861.6

This new router bit designed for 3/4" (19mm) thick stock is perfect for creating wainscots and panels on your walls. Simply create a 1/4" (6.35mm) tongue-and-groove interlock with a CMT **800.626.11**, then, with two passes mill an attractive traditional beadboard profile with this new bit. Perfect for cabinets, bookcase backings, ceiling and wall paneling.









								_Spare parts _			
ORDER NO. S=Ø1/2" shank		inches	mm	I inches	R inches	Α	<b>L</b> inches				
861.601.11	10	15/16	23.8	3/4	5/32	45°	2-43/64	990.423.00	791.003.00	990.058.00	991.057.00

SHOP TIPS: after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)



### 854



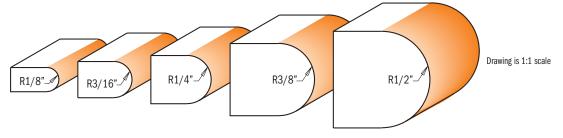




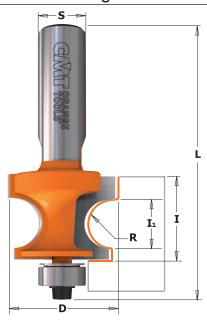
CMT's bull nose bits create elegantly finished edges on stair treads, window sills and shelves in one pass. Add a final touch by using a cutter with a bead diameter wider than the stock thickness.

SAFETY TIPS: to be used only on router tables equipped with a fence except in the case Do not remove the workpiece while the bit is routing.

	ORDER NO. S=Ø1/4" shank	<b>ORDER NO. S=Ø1/2"</b> shank	8	inches	R mm	<b>D</b> inches	I <sub>1</sub> inches	I inches	L inches
	854.002.11		10	1/8	3.2	7/8	1/4	3/4	2
		854.502.11	10	1/8	3.2	7/8	1/4	3/4	2-1/4
	854.003.11		10	3/16	4.75	1	3/8	7/8	2-1/8
		854.503.11	10	3/16	4.75	1	3/8	7/8	2-3/8
	854.004.11		10	1/4	6.35	1-1/8	1/2	1	2-1/4
		854.504.11	10	1/4	6.35	1-1/8	1/2	1	2-1/2
- [		854.507.11	10	3/8	9.52	1-3/8	3/4	1-3/8	2-7/8
		854.509.11	10	1/2	12.7	1-3/4	1-1/16	1-5/8	3-1/8



## Corner Beading Bits



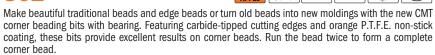


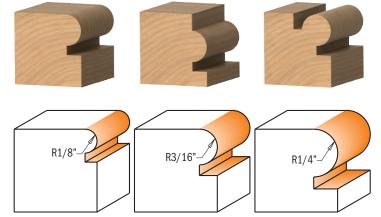












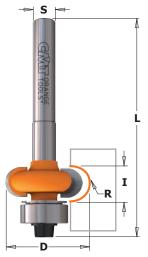
Drawing is 1:1 scale

										Spare parts -		
-	ORDER NO. Ø1/4" shank	ORDER NO. S=Ø1/2" shank	8	R	mm	<b>D</b> inches	I <sub>1</sub> inches	inches	L inches			
86	1.032.11		10	1/8	3.2	7/8	1/4	19/32	2-1/4	990.423.00	791.003.00	990.058.00
		861.532.11	10	1/8	3.2	7/8	1/4	19/32	2-1/2	990.423.00	791.003.00	990.058.00
86	1.048.11		10	3/16	4.75	1	3/8	47/64	2-25/64	990.423.00	791.003.00	990.058.00
		861.548.11	10	3/16	4.75	1	3/8	47/64	2-41/64	990.423.00	791.003.00	990.058.00
86	1.064.11		10	1/4	6.35	1-1/8	1/2	7/8	2-9/16	990.423.00	791.003.00	990.058.00
		861.564.11	10	1/4	6.35	1-1/8	1/2	7/8	2-25/32	990.423.00	791.003.00	990.058.00

Spare parts: 991.057.00 3/32" hex key







### 862

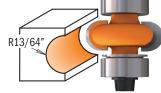
The edge-fluting bearing guided bits are quick to set up and can be used for curved screens, small radius grooves, doors etc. No side fence is required. Use in a handheld or table-mounted router.

For top bearing version:
use bearing 791.010.00 and
stop collar 541.001.00 (optional)

T2 RH







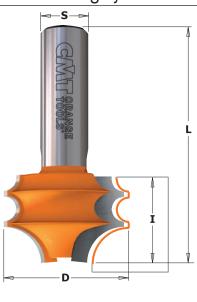
ORDER NO. S=Ø1/4" shank	8	R	mm	<b>D</b> inches	inches	L inches
862.032.11	10	1/8	3.2	3/4	1/4	2-1/4
862.040.11	10	5/32	4	13/16	5/16	2-1/4
862.050.11	10	13/64	5	57/64	25/64	2-1/4

_ Spare parts			
990.423.00	791.003.00	990.058.00	991.057.00
990.423.00	791.003.00	990.058.00	991.057.00
990.423.00	791.003.00	990.058.00	991.057.00

856.851

CARBIDE T2 RH

### **CMT Moulding System**



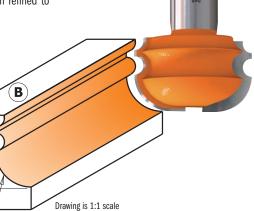
### 856.852

If the standard selection of moulding and mill work you find in today's lumber shops isn't satisfactory to your woodworking tastes, then look to CMT's moulding system instead. With these bits, you can make dozens of elaborate profiles by combining two or more passes. Avoid the average and create your own mouldings. Some initial suggestions are illustrated below.

**SAFETY TIPS:** use these bits with a fence. The profiles shown below are milled from heavy stock then refined to the desired shape.

3/4"

R3/8"





Chair rail P 4 passes n



Base cap Stop 3 passes 2 passes



29/32"

R3/8

ORDER NO. S=Ø1/2" shank	8	inches	mm	I inches	L inches	PROFILE
856.852.11	10	1-1/4	31.7	29/32	2-13/32	Α
856.851.11	10	1-1/4	31.7	3/4	2-1/4	В

# **Moulding Bits**





1-5/8"	R1/8"—  R9/16"—  R5/16"—	6"		I V	R1,
		ODDED NO	_ n		



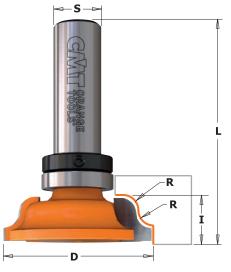
ORDER NO. S=Ø1/2" shank		D inches	mm	<b>I</b> inches	L inches
855.901.11	10	15/16	23.8	1-3/8	3-5/16
855.902.11	10	1-1/16	27	1-5/8	3-9/16
856.501.11	10	1-7/8	47.6	1-1/8	3-1/16
867.701.11	10	2-1/4	58	1	2-7/8

990.423.00	791.003.00	990.058.00	991.057.00
990.423.00	791.003.00	990.058.00	991.057.00
990.423.00	791.003.00	990.058.00	991.057.00

SHOP TIPS: after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)

### Moulding Bits

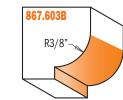




### 867.5B - 867.6B

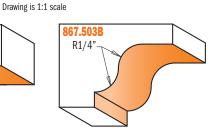


CMT's new moulding bits allow you to shape elegant moldings with your table saw and router. Unlike any commercially available crown mouldings, mouldings made with these bits are easy to install and create a finished appearance. After shaping the cove, you can use special router bits with inverted profiles to create different edges and complete the moulding.





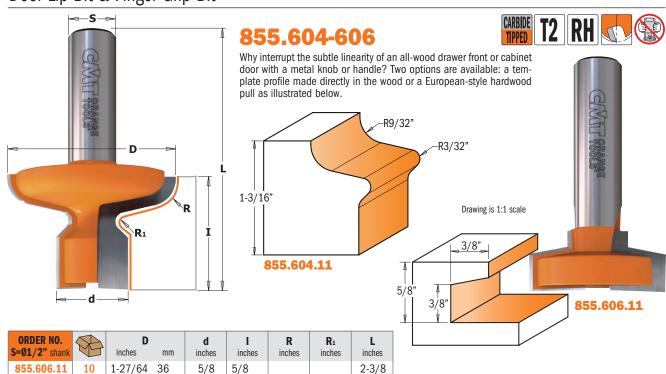
**867.502B**R5/32"



ORDER NO.	A	R		D	ı	L
<b>S=Ø1/2"</b> shank		inches	mm	inches	inches	inches
867.502.11B	10	5/32	4	2-1/8	29/64	2-19/32
867.601.11B	10	1/4	6.35	1-1/2	31/64	2-1/4
867.603.11B	10	3/8	9.52	1-1/2	37/64	2-21/64

Spare parts			
791.011.00	541.002.00	990.005.00	991.056.00
791.011.00	541.002.00	990.005.00	991.056.00
791.011.00	541.002.00	990.005.00	991.056.00

## Door Lip Bit & Finger Grip Bit



2-5/8

855.604.11

10

1-7/8

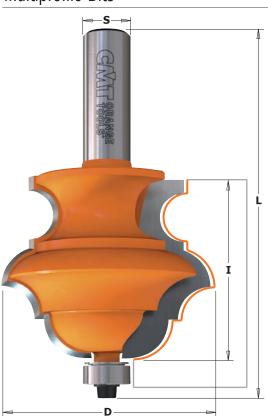
47.6

7/8

9/32

1-3/16





856.8



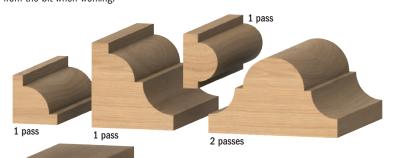




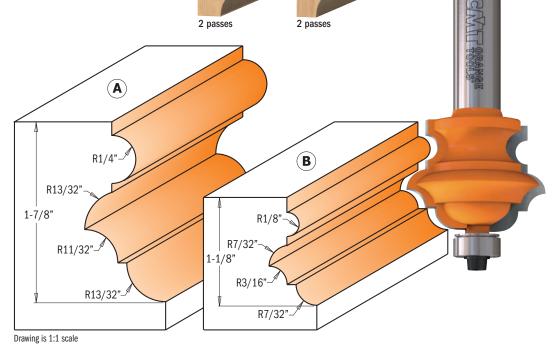




equipped with a fence. **SAFETY TIPS:** to make small mouldings as shown below, cut the profile from large stock, removing excess material as you work as this will facilitate easier control. Keep hands far from the bit when working.



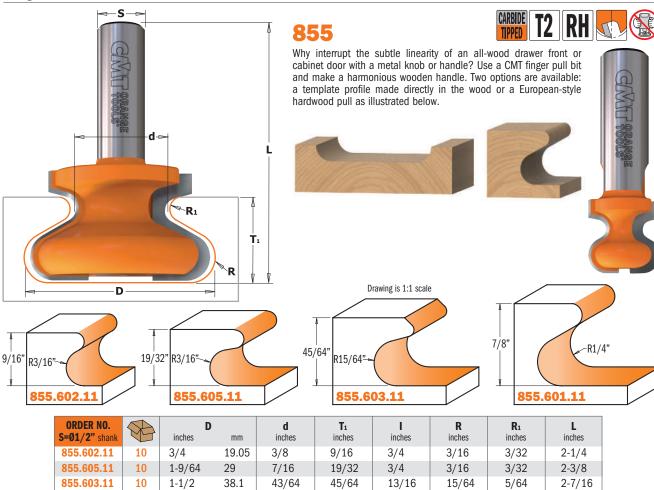


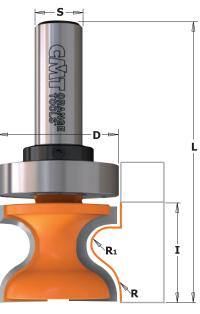


ORDER NO. S=Ø1/2" shank	8	inches <b>D</b>	mm	inches	L inches	PROFILE	
856.802.11	5	2-3/16	55.6	1-7/8	3-25/32	Α	
856.801.11	10	1-1/2	38.1	1-1/8	3-1/16	В	

Spare parts _			
990.423.00	791.003.00	990.058.00	991.057.00
990.423.00	791.003.00	990.058.00	991.057.00







855.601.11

10

1-7/8

47.6

### Window Sill & Finger Bits

7/8

1-1/8

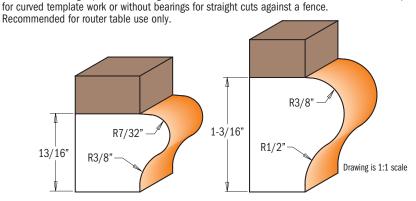
15/16

Originally, these profiles were designed for shaping the edges of window sills. Yet, these bits also can be used to create finger pulls on the edges of doors and drawers. These bits are available with top bearings

1/4

1/8

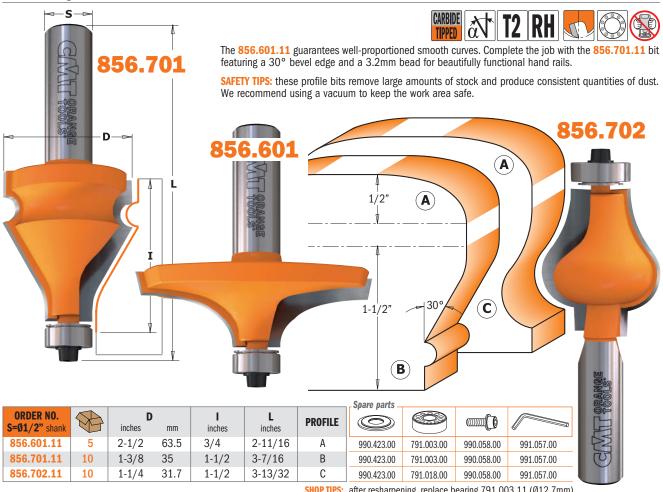
2-5/8



ORDER NO. S=Ø1/2" shank	8	inches	R mm	R <sub>1</sub> inches	<b>D</b> inches	l inches	L inches					
855.804.11	10	3/8	9.52	7/32	1-1/4	1	2-7/8					
855.805.11	10	1/2	1/2 12.7		1-1/2	1-3/8	3-3/8					
WITH TOP BEARING												
855.804.11B	10	3/8	9.52	7/32	1-1/4	1	2-7/8					
855.805.11B	10	1/2	12.7	3/8	1-1/2	1-3/8	3-3/8					

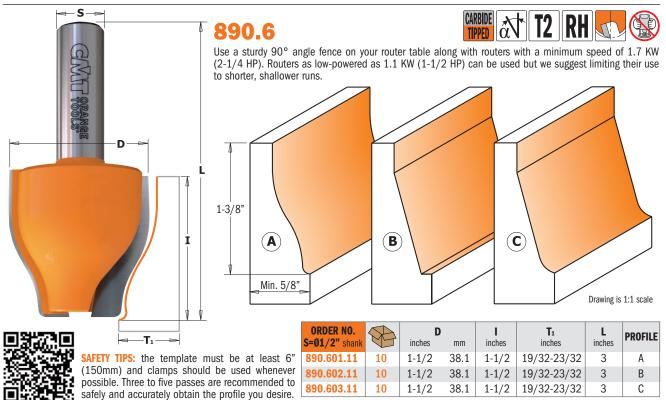
Spare parts _			
791.015.00	541.002.00	990.005.00	991.056.00
791.020.00	541.002.00	990.005.00	991.056.00



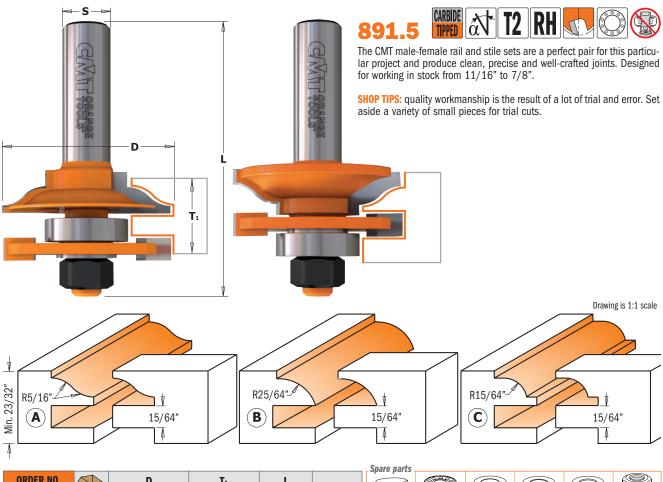


SHOP TIPS: after resharpening, replace bearing 791.003.11 (Ø12.7mm) with undersized bearing **791.063.00** (Ø12.5mm)

### Vertical Raised Panel Bits







ORDER NO. S=Ø1/2" shank	8	inches	mm	T <sub>1</sub> inches	L inches	PROFILE	<b>E</b>		0.1mm	0.3mm	0.9mm	
891.501.11	5	1-3/4	44.5	23/32 - 7/8	2-51/64	Α	822.003.11	791.012.00	541.515.00	514.516.00	990.407.00	990.020.00
891.502.11	5	1-3/4	44.5	23/32 - 7/8	2-51/64	В	822.003.11	791.012.00	541.515.00	514.516.00	990.407.00	990.020.00
891.503.11	5	1-3/4	44.5	23/32 - 7/8	2-51/64	С	822.003.11	791.012.00	541.515.00	514.516.00	990.407.00	990.020.00

### THE ABC'S OF PANEL DOOR CONSTRUCTION (PART 1)

In our step-by-step example of panel door construction, we used the following:
- CMT Rail & Stile set (item #891.502.11)

- CMT Reverse Glue Joint (item #855.501.11)

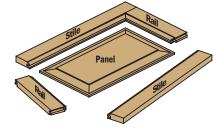
  pre-cut to length stiles 3/4" thick x 2-1/4" wide

  pre-cut to length rails 3/4" thick x 2-1/4" wide

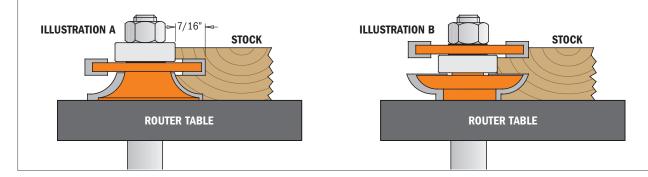
  panel 5/8" thick

  scrap stock for test cuts

- scrap stock for test cuts
The CMT Rail & Stile set was designed primarily for the construction of panel doors with 3/4" thick rails and stiles, but
stock up to 7/8" thick can be used. Remember to adjust your
measurements and cutting depths according to the wood thickness you use.









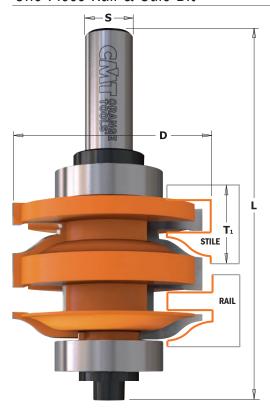








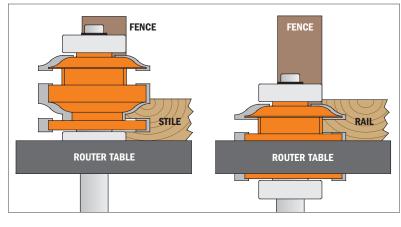




### 891.521

The new CMT One-Piece Rail and Stile Bit represents the union of two cutters in one bit. By simply adjusting the height of the bit, you can cut two perfectly joining profiles with no wasted time or effort moving the fence or changing the bit. Save time and money by investing in one single CMT cutting tool.

SHOP TIPS: the complicated nature of this kind of project requires a lot of practice and you need to carry out trial cuts. Always keep a variety of test pieces on hand.



ORDER NO. S=Ø1/2" shank	8	inches	mm	T <sub>1</sub> inches	L inches	Spare parts						
891.521.11	10	2	50.8	23/32 - 7/8	3-25/32	791.027.00	541.002.00	990.005.00	991.056.00	541.551.00	990.010.00	991.064.00

### THE ABC'S OF PANEL DOOR CONSTRUCTION (PART 2) -

### CREATING THE RAILS AND STILES

First, make trial cuts of the cope profile (rail) and the stick profile (stile) in scrap stock. Then check the accuracy of the joint. This is extremely important, especially when working at the maximum thickness of 7/8". Make sure your stock is flat and cut straight with square edges. Using the CMT Stile Bit shown in illustration A, place the stock face down on the router table and mill the stick profile in the stile and rail pieces. To mill the rails, use the CMT Rail Bit shown in illustration A, position the rails face down on the router table and mill the cope profile in the ends. Before cutting the rails to length, be sure to allow enough length for the overlap of the cope and stick profiles. The stiles are the same length as the door. The rails must be calculated by the following equation (CMT standard tenon length is 7/16"): (total door width - sum of stile widths) + sum of 2 tenons = total rail length
Therefore, using our example measurements listed above, for a 12" wide cabinet door:

12" - 4-1/2" + 7/8" = 8-3/8" rail length.

If the panel requires a width greater than the width of your stock, you will need to edge glue stock for the central floating panel. This is easily accomplished using the CMT Reverse Glue Joint bit. For a two panel glue joint, place the first panel face down on the router table and accurately centre the wood to the bit: Adjust the bit according to the thickness of the wood you are cutting by lining up the cut edge of the wood to the center point of the bit as illustrated in illustration B and mill the cut edge of the wood. Place the second panel face up and repeat the milling process. This assures you will have the best side of your stock as a front face. If a third panel is required, mill one cut edge of the piece as instructed above, turn the piece over and run the other edge. Assemble the reverse cut pairs together for beautiful, strong joints that match up perfectly.

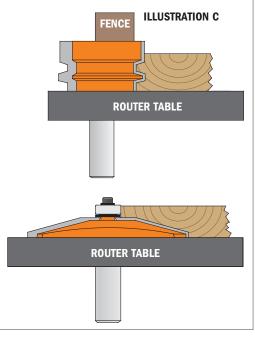
### MILLING THE FLOATING PANEL

To cut your panel to size be sure to make the proper calculations, taking into account the length of the tongue. The CMT Raised Panel Bit in our example has a standard tongue length of 5/16" (The New CMT Raised Panel Bit profile has a 3/8" tongue). Use the following equation:

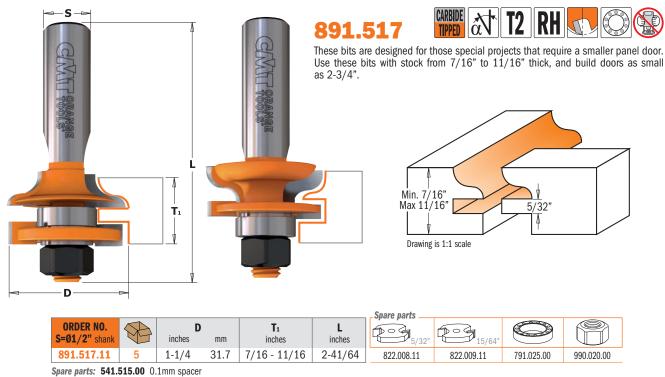
(Total door length - Sum of Stile widths) + Sum of 2 Tongues = Overall Panel Length
Therefore, using our example measurements listed above for a 24" long cabinet door: (24 - 4-1/2") + 5/8" = 20-1/8" panel length

And accordingly: (Total door width - Sum of Stile widths) + Sum of 2 Tongues = Overall Panel Width.

Once the panel has been cut to proper dimensions, position the panel face side down on the router table as shown in illustration C and use the CMT Raised Panel Bit to mill the tongue. ATTENTION: this bit is capable of removing large amounts of stock. To safely and effectively produce the profile you want, we suggest making several shallow passe It can be dangerous to try to mill the entire profile in a single cut.

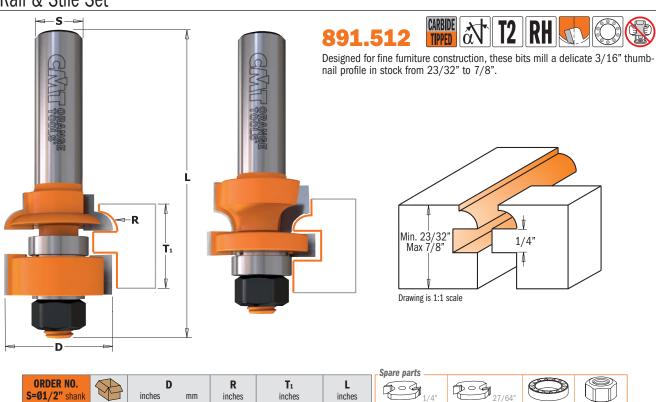






Rail & Stile Set

**541.516.00** 0.3mm spacer **541.518.00** 1.0mm spacer



**Spare parts: 541.515.00** 0.1mm spacer **541.516.00** 0.3mm spacer **541.518.00** 1.0mm spacer

1-1/8

28.7

3/16

23/32 - 7/8

3-1/8

822.011.11

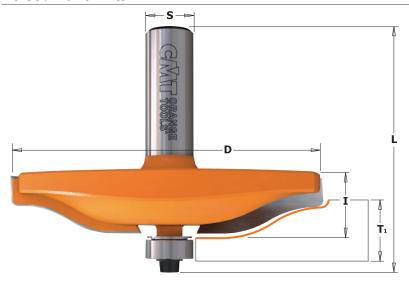
822.012.11

891.512.11

990.020.00

791.025.00











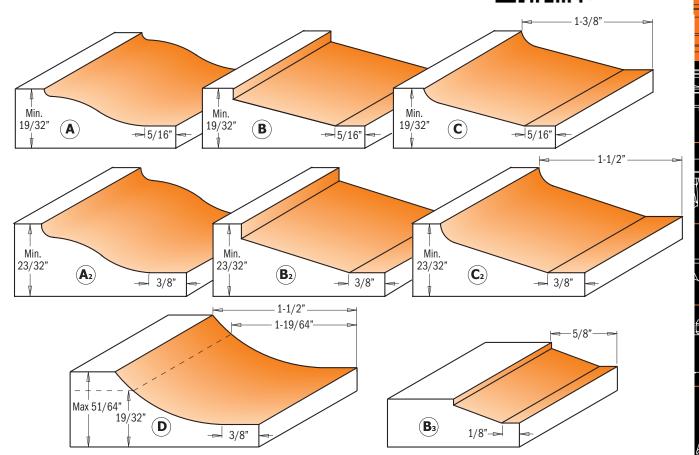




Make classic raised panel doors by choosing from the profiles illustrated below. Its anti-kickback design is fundamental in further improving safety when working with larger diameter bits.

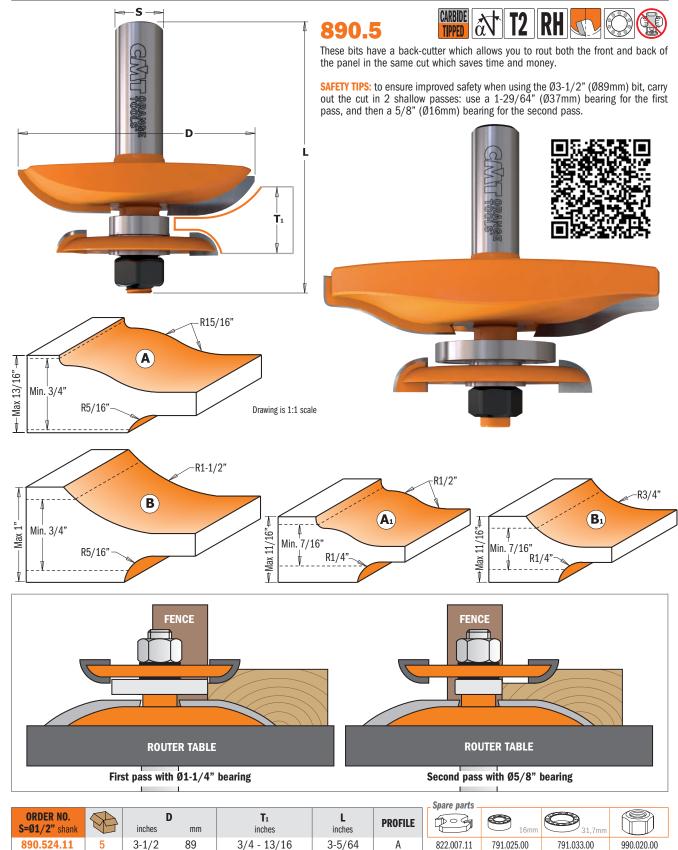
SAFETY TIPS: this type of bit needs to be used at a lower rotational speed, preferably between 10,000 and 12,000 RPMs. Three to five passes are recommended to safely and accurately obtain the profile you desire. To be used on routers with at least 1800 Watt or 2-1/4 HP.





ORDER NO. S=Ø1/2" shank	8	inches <b>D</b>	mm	l inches	T <sub>1</sub> inches	L inches	PROFILE	Spare parts _			
890.501.11	5	3-1/4	82.5	19/32	19/32 - 23/32	2-1/2	Α	990.423.00	791.003.00	990.058.00	991.057.00
890.502.11	5	3-1/4	82.5	19/32	19/32 - 23/32	2-1/2	В	990.423.00	791.003.00	990.058.00	991.057.00
890.503.11	5	3-1/4	82.5	19/32	19/32 - 23/32	2-17/32	С	990.423.00	791.003.00	990.058.00	991.057.00
890.504.11	5	3-1/2	89	19/32	23/32 - 25/32	2-17/32	<b>A</b> 2	990.423.00	791.003.00	990.058.00	991.057.00
890.505.11	5	3-1/2	89	19/32	23/32 - 25/32	2-17/32	B <sub>2</sub>	990.423.00	791.003.00	990.058.00	991.057.00
890.506.11	5	3-1/2	89	19/32	23/32 - 25/32	2-17/32	C <sub>2</sub>	990.423.00	791.003.00	990.058.00	991.057.00
890.507.11	5	3-1/2	89	19/32	23/32 - 25/32	2-17/32	D	990.423.00	791.003.00	990.058.00	991.057.00
890.512.11	10	1-7/8	47.6	3/8	1/2 - 19/32	2-9/32	<b>B</b> <sub>3</sub>	990.423.00	791.003.00	990.058.00	991.057.00





**Spare parts: 541.515.00** 0.1mm spacer **541.516.00** 0.3mm spacer

5

5

3-1/2

2-1/2

2-1/2

89

63.5

63.5

890.527.11

890.534.11

890.537.11

**541.518.00** 1.0mm spacer **990.407.00** Shield conical

3-5/64

2-3/4

2-3/4

В

 $A_1$ 

 $B_1$ 

822.007.11

822.010.11

822.010.11

791.025.00

791.025.00

791.025.00

3/4 - 1

7/16 - 11/16

7/16 - 11/16

791.033.00

990.020.00

990.020.00

990.020.00

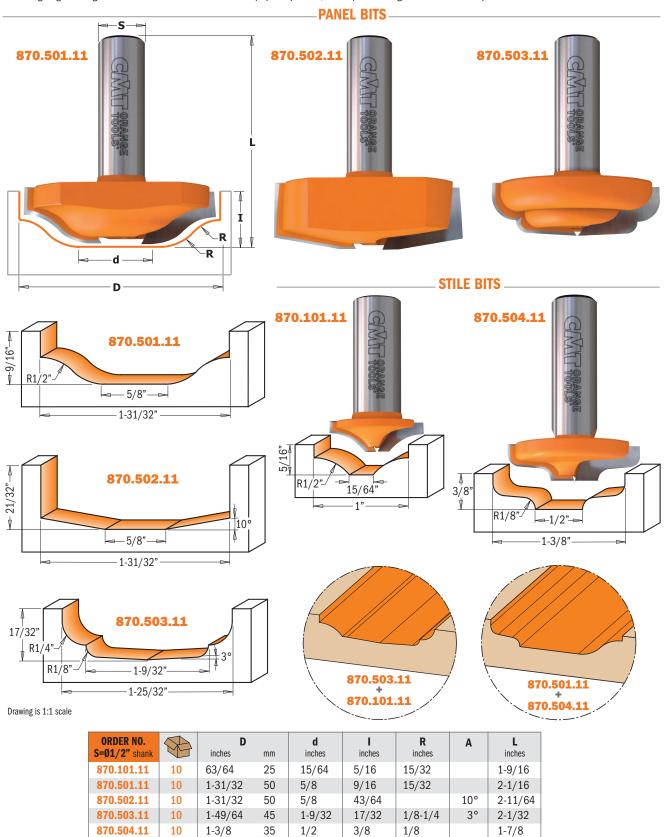






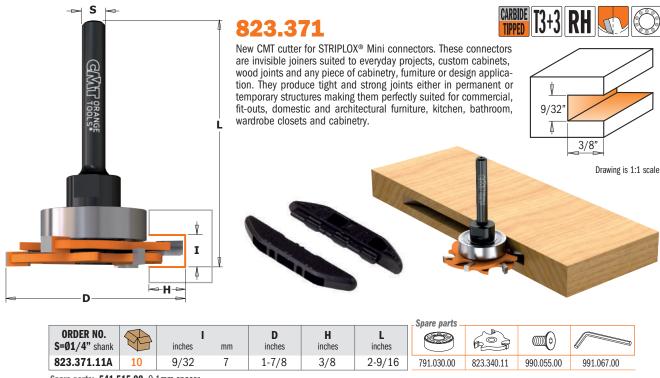
These bits can be used for decorative work on solid wood panels and MDF materials. Use them in one pass or in combination with CMT's MDF panel bits for complex and intricate profiles. A simple approach for an elegant appearance.

Featuring large cutting diameters and available in the most popular profiles, these panel bits guarantee excellent performance.



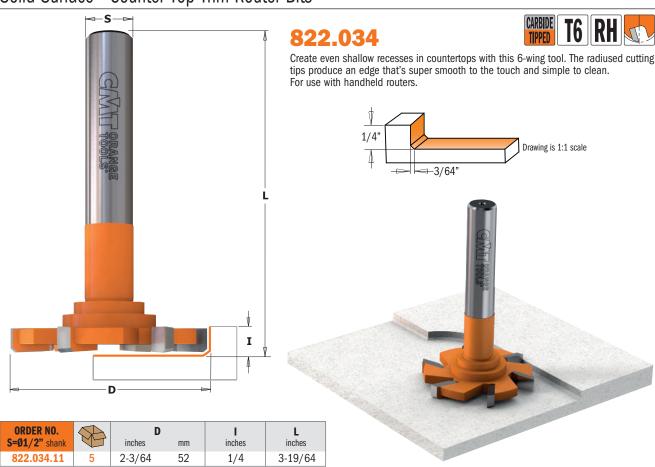
### 3-Flute Slot Cutter for STRIPLOX® Mini





**Spare parts: 541.515.00** 0.1mm spacer **541.516.00** 0.3mm spacer **541.517.00** 0.5mm spacer

# Solid Surface - Counter-Top Trim Router Bits



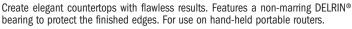


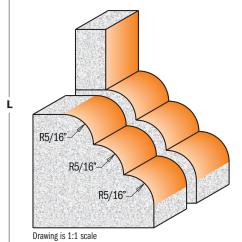
# 880.521











### **APPLICATION**

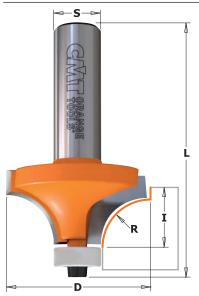
**WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** Etc.

D_			<u>&gt;</u>	у			
<b>ORDER NO. S=Ø1/2"</b> shank	8	D inches	mm	l inches	R inches	L inches	

	_Spare parts _		
	791.046.00	990.058.00	991.057.00

# Solid Surface - Rounding Over Bits

880.521.11



1-5/8

5/16

Use these bits to create traditional roundover edges on solid surface countertops. Equipped with a nonmarring DELRIN® bearing to protect finished edges. For use on hand-held portable routers.

3-17/32



Drawing is 1:1 scale R3/64"-838.147.11

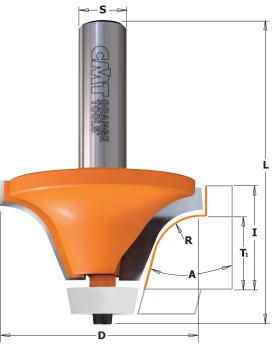
**APPLICATION** WILSONART® **GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** Etc.

								_Spare parts _		
ORDER NO. S=Ø1/4" shank	ORDER NO. S=Ø1/2" shank		inches	mm	l inches	R inches	L inches			
838.147.11		10	37/64	14.7	3/8	3/64	2	990.422.00	791.044.00	990.058.00
	880.501.11	10	3/4	19.05	1/2	1/8	2-11/32	990.422.00	791.044.00	990.058.00
	880.502.11	10	1	25.4	1/2	1/4	2-11/32	990.422.00	791.044.00	990.058.00
	880.505.11	10	1-1/8	28.7	19/32	5/16	2-29/64	990.422.00	791.044.00	990.058.00
	880.503.11	10	1-1/4	31.75	9/16	3/8	2-25/64	990.422.00	791.044.00	990.058.00
	880.504.11	10	1-1/2	38.1	3/4	1/2	2-19/32	990.422.00	791.044.00	990.058.00

**Spare parts: 991.057.00** 3/32" hex key

219

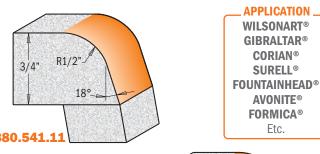


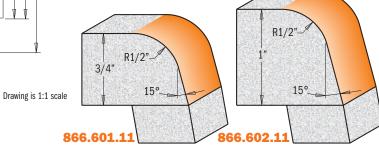


### 866.6 - 880.541

CARBIDE TO TE RH

These bits are the best tool for rounding over and trimming countertop edges after the bowl is mounted. Can be used together with the CMT 880.551.11 bevel cutter for a flush cut-out between the countertop and the installed undermount bowl. For use on hand-held routers. Features a non-marring DELRIN® bearing to protect the finished edges as well as surfaces.





ORDER NO. S=Ø1/2" shank		inches	) mm	T <sub>1</sub> inches	I inches	R inches	A	<b>L</b> inches
866.601.11	10	2	50.8	3/4	1	1/2	15°	2-61/64
866.602.11	10	2	50.8	1	1-1/4	1/2	15°	3-13/64
880.541.11	10	2-1/8	54	3/4	1	1/2	18°	3-5/64

	Spare parts _		
1	791.041.00	990.058.00	991.057.00
	791.041.00	990.058.00	991.057.00
	791.041.00	990.058.00	991.057.00

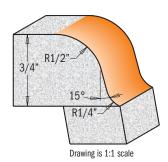
# R T<sub>1</sub>

# Solid Surface - Rounding Over Bowl Bit (ogee profile)

### 880.542



These bits roundover and trim the countertop edges after the bowl is mounted. Can be used with the CMT 880.551.11 bevel cutter for a flush cut-out between the countertop and installed undermount bowl. For use on hand-held portable routers. Features a non-marring DELRIN® bearing to protect the finished edges.



### \_ APPLICATION \_ WILSONART® GIBRALTAR®

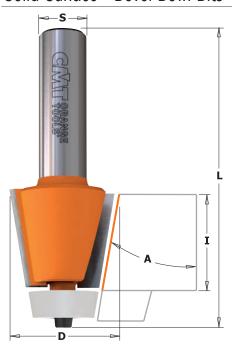
GIBRALTAR®
CORIAN®
SURELL®
FOUNTAINHEAD®
AVONITE®
FORMICA®
Etc.

									5
ORDER NO. S=Ø1/2" shank	8	D inches	mm	T <sub>1</sub> inches	I inches	R inches	A	L inches	
880.542.11	10	2-1/8	54	3/4	1	1/4 - 1/2	15°	3-1/16	

_	_Spare parts _		
	791.041.00	990.058.00	991.057.00

220





### 866.501 - 880.551







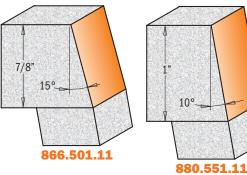






These bits are designed for undermount applications joining the countertops and sink bowls with a beveled edge. Can be used with the 880.541.11 and 880.542.11 for complete undermount

For use on hand-held routers. Features a non-marring DELRIN® bearing to protect the finished edges and surfaces.



**APPLICATION** 

**WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** Etc.

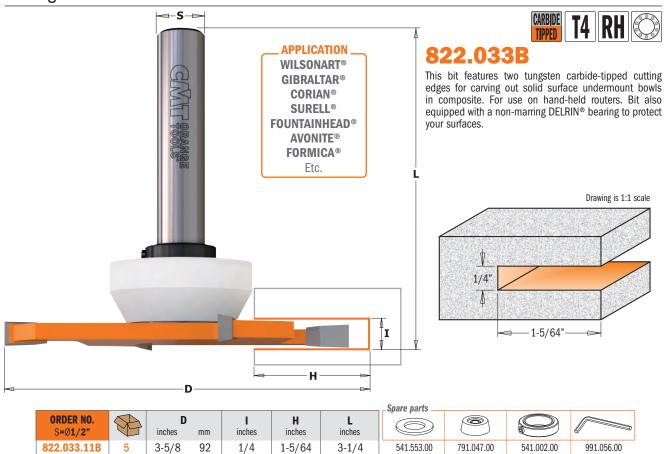
866.

Drawing is 1:1 scale

ORDER NO. S=Ø1/2" shank	8	inches <b>D</b>	mm	inches	A	L inches
866.501.11	10	1-1/4	31.7	7/8	15°	2-53/64
880.551.11	10	1-1/8	28.5	1	10°	3-1/32

_ Spare parts _		
791.041.00	990.058.00	991.057.00
791.041.00	990.058.00	991.057.00

# 4-Wing Cut Out Slot Cutters for Solid Surfaces











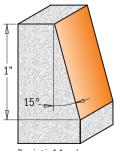






### 881.521

Edge profile bit designed to create a 15° beveled edge on solid surface countertops. Can also be used for European type topmount installation with sinks and bowls. For use on hand-held portable and table routers.



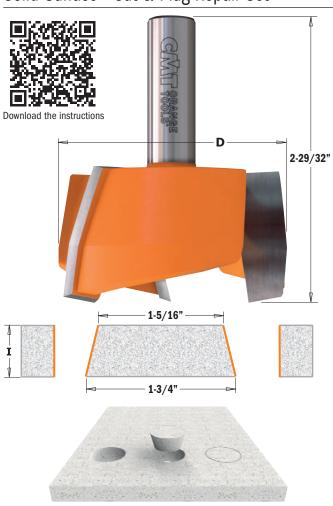
### **APPLICATION**

**WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** Etc.

Drawing	is	1:1	scale
Diawing	ıs	1.1	Scare

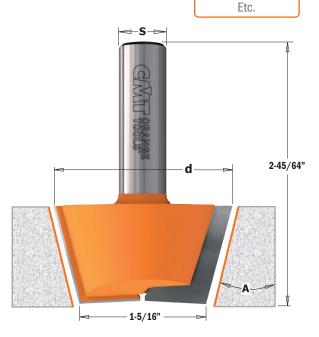
ORDER NO. S=Ø1/2" shank	8	<b>D</b> inches	mm	I inches	A	<b>d</b> inches	<b>L</b> inches
881.521.11	10	29/32	23	1	15°	3/8	2-1/2

# Solid Surface - Cut & Plug Repair Set



These special carbide-tipped bits work best on solid surfaces or when repairing damaged surfaces. One bit creates the plug, then the other bit easily carves out the hole. Your surfaces will look like new again! For use with hand-held routers or CNC machines.

**WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** 



ORDER NO.	8	d inches mm		D	<b>D</b> inches mm		Α	L inches
3-01/2 Slidlik		IIICIICO	111111	IIIUIIU	111111	inches		IIICIICS
881.541.11	5	1-7/8	47.5	2-31/64	63	3/4	15°	2-45/64 - 2-29/32

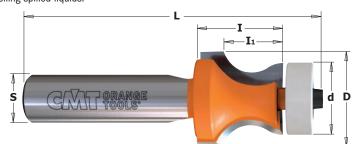


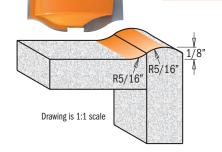


This bit is designed to create "no-drip" edges on kitchen and vanity countertops in one simple step. Designed for hand-held portable routers on applications where a guide bearing cannot be used. This one bit will cut both the outer and inner profiles creating a slightly raised edge, controlling spilled liquids.

# APPLICATION WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA® Etc.

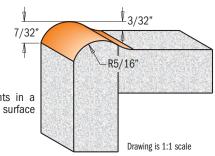
881.501





### 880,531

This bit creates strong and reliable joints in a variety of composites thanks to greater surface area for applying glue.



ORDER NO. S=Ø1/2" shank	8	<b>D</b> inches	mm	<b>d</b> inches	l inches	l <sub>1</sub> inches	R inches	L inches	Spare parts		
881.501.11	10	1	25.4		1/2	1/8	5/16	2-1/2			
880.531.11	10	1	25.4	3/4	7/8	5/8	5/16	3-1/32	791.046.00	990.058.00	991.057.00

# Solid Surface - Wavy Joint Bit



### 881.531

881.531.11

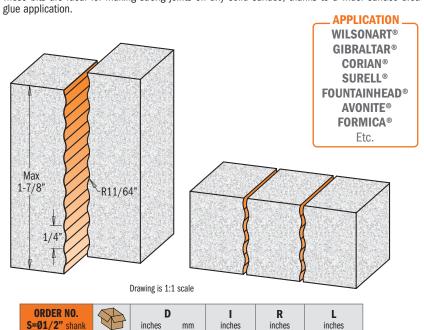
5/8

15.87

2-1/32

11/64

These bits are ideal for making strong joints on any solid surface, thanks to a wider surface area for



223

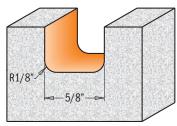
3-1/2

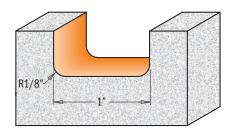


# İ

### 881.511-512

This bit is ideal for creating custom drainboard patterns in solid surface countertops. For use on hand-held portable routers.





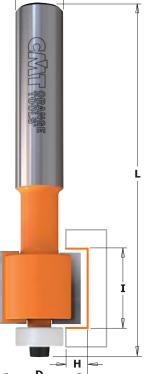
Drawing is 1:1 scale

ORDER NO. S=Ø1/2" shank	8	inches	) mm	I inches	R inches	L inches
3-01/2 Slidlik		IIICHES	111111	inches	inches	inches
881.511.11	10	5/8	15.87	1/2	1/8	2-1/2
881.512.11	10	1	25.4	1/2	1/8	2-3/4

**APPLICATION** 

**WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** Etc.

# Solid Surface - Inlay Bits



### 880.511-512-513

Add a decorative inlay to solid surface countertops in composite. Equipped with a non-marring DELRIN® bearing to protect the finished edges. For use on hand-held portable and table routers.





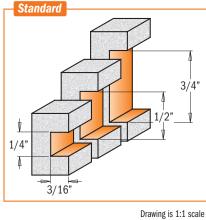


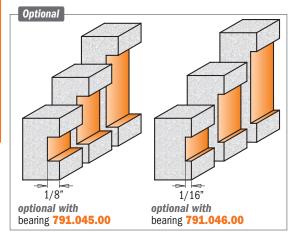




### **APPLICATION**

**WILSONART® GIBRALTAR® CORIAN® SURELL® FOUNTAINHEAD® AVONITE® FORMICA®** Etc.

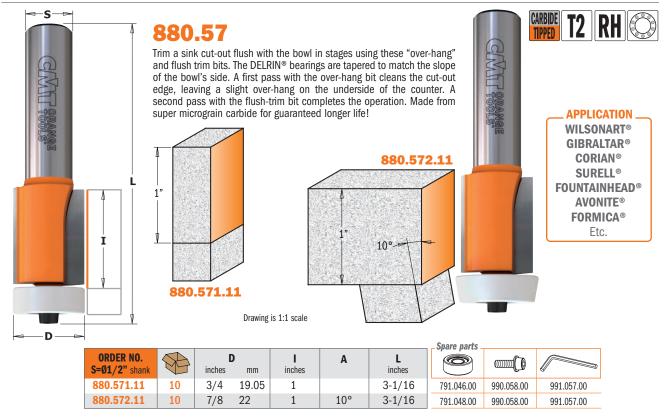




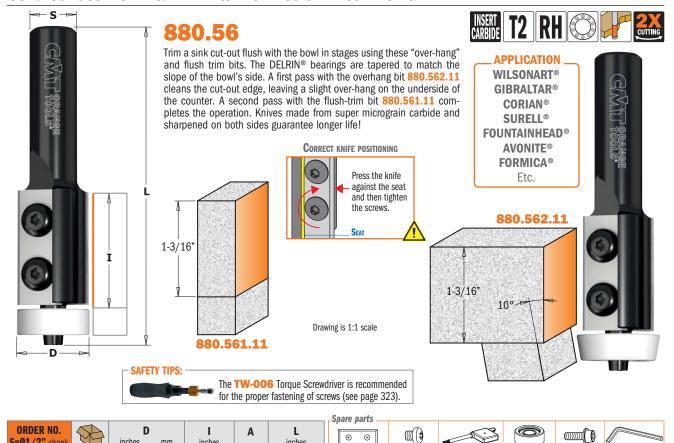
ORDER NO. S=Ø1/2" shank		D inches mm		I inches	H inches	L inches
880.511.11	10	7/8	22.2	1/4	3/16	3-3/32
880.512.11	10	7/8	22.2	1/2	3/16	3-19/32
880.513.11	10	7/8	22.2	3/4	3/16	3-19/32

_	_Spare parts _		
	791.044.00	990.058.00	991.057.00
	791.044.00	990.058.00	991.057.00
	791.044.00	990.058.00	991.057.00





### Solid Surface - Sink & Trim Bits with Insert Knives - LONG LIFE



• •

790.300.03

790.300.03

990.075.00

990.075.00

991.061.00

991.061.00

inches

3-9/32

3-9/32

990.058.00

990.058.00

991.057.00

991.057.00

225

791.046.00

791.048.00

19.05

22

inches

1-3/16

1-3/16

10°

inches

3/4

7/8

10

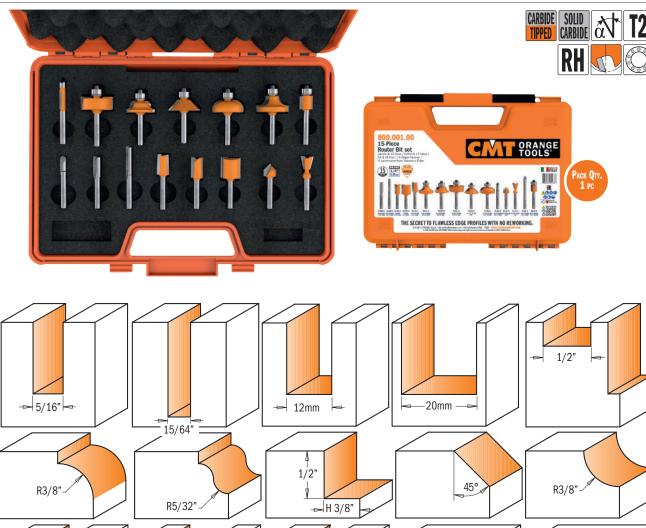
10

S=01/2" shank

880.561.11

880.562.11





# **800.001.00** 1/4" shank

1/2" 90°

R1/8"-

SET CONTAINS	ORDER NO.	[	)		ı	R		L		ŀ	1	Α
JLI CONTAINS	S=Ø <b>1/4</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
Straight Bit	811.080.11	5/16	7.94	3/4	19.05			2	50.8			
Straight Bit	812.060.11	15/64	6	1	25.4			2-3/8	60.3			
Straight Bit	811.120.11		12	3/4	19.05			2	50.8			
Straight Bit	811.200.11		20	3/4	19.05			2	50.8			
Mortising Bit	801.127.11	1/2	12.7	3/4	19.05			2-1/8	53.9			
Roundover Bit	838.317.11	1-1/4	31.7	9/16	14	3/8	9.52	2-1/4	57.1			
Ogee Bit	840.270.11	1-1/8	28.7	29/64	11.5	5/32	4					
Rabbeting Bit	835.317.11	1-1/4	31.7	1/2	12.7			2-5/16	58.7	3/8	9.52	
Chamfer Bit	836.280.11	1-1/4	31.7	3/8	9.52			2-3/32	53.1			45°
Cove Bit	837.286.11	1-1/4	31.7	1/2	12.7	3/8	9.52	2-1/8	53.9			
Round Nose Bit	814.064.11	1/4	6.35	1/2	12.7	1/8	3.17	2	50.8			
V-Groove Bit 90°	815.127.11	1/2	12.7	1/2	12.7			1-49/64	44.8			90°
Dovetail Bit	818.128.11	1/2	12.7	1/2	12.7			2-1/16	52.3			14°
Panel Pilot Bit	816.064.11	1/4	6.35	3/4	19.05			2-1/2	63.5			
Flush Trim Bit	806.128.11	1/2	12.7	1/2	12.7			2-9/32	57.9			

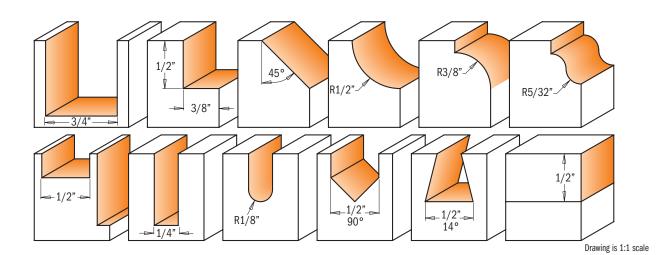
1/2"

Drawing is 1:1 scale









# 800.503.11 1/4" shank

SET CONTAINS	ORDER NO.	C	)	ı		F	2	L		ı	Н	Α
JEI CONTAINS	S=Ø <b>1/4</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
Flush Trim Bit	806.128.11	1/2	12.7	1/2	12.7			2-9/32	54.9			
Cove Bit	837.350.11	1-1/2	38.1	5/8	15.5	1/2	12.7	2-9/32	54.9			
Rabbeting Bit	835.317.11	1-1/4	31.7	1/2	12.7			2-5/16	58.7	3/8	9.52	
Roundover Bit	838.317.11	1-1/4	31.7	9/16	14	3/8	9.52	2-1/4	57.1			
Chamfer Bit	836.420.11	1-3/4	44.5	5/8	15.5			2-3/8	60.3			45°
Ogee Bit	840.270.11	1-1/8	28.7	29/64	11.5	5/32	4					
Straight Bit	811.065.11	1/4	6.35	3/4	19.05			2-1/4	57.1			
Straight Bit	811.191.11	3/4	19.05	3/4	19.05			2-1/4	57.1			
Mortising Bit	801.127.11	1/2	12.7	3/4	19.05			2-1/8	53.9			
Round Nose Bit	814.064.11	1/4	6.35	1/2	12.7	1/8	3.17	2	50.8			
V-Groove Bit	815.127.11	1/2	12.7	1/2	12.7			1-49/64	44.8			90°
Dovetail Bit	818.128.11	1/2	12.7	1/2	12.7			2-1/16	52.3			14°

















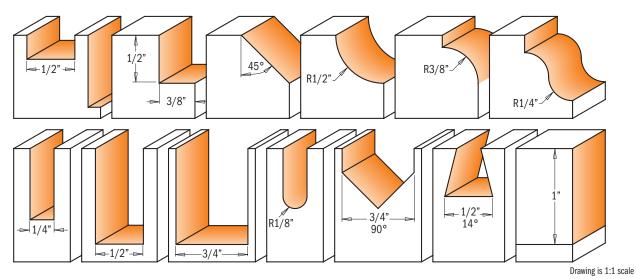




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# **800.505.11** 1/2" shank

SET CONTAINS	ORDER NO.		D		ı		R	L		ŀ	1	Α
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
Straight Bit	811.564.11	1/4	6.35	3/4	19			2-3/8	60.3			
Straight Bit	811.628.11	1/2	12.7	1	25.4			3-1/4	82.5			
Flush Trim Bit	806.627.11	1/2	12.7	1	25.4			3-13/32	86.5			
Straight Bit	811.690.11	3/4	19.05	1	25.4			2-1/2	63.5			
Mortising Bit	801.627.11	1/2	12.7	3/4	19			2-3/8	60.3			
Roundnose Bit	814.564.11	1/4	6.35	5/8	15.87	1/8	3.17	2-1/2	63.5			
V-Groove Bit	815.690.11	3/4	19	5/8	15.87			2-1/2	63.5			90°
Dovetail Bit	818.628.11	1/2	12.7	1/2	12.7			2-1/2	63.5			14°
Cove Bit	837.850.11	1-1/2	38.1	5/8	15.87	1/2	12.7	2-17/32	64.2			
Rabbeting Bit	835.817.11	1-1/4	31.7	1/2	12.7			2-13/32	61.1	3/8	9.52	
Roundover Bit	838.817.11	1-1/4	31.7	9/16	14.2	3/8	9.52	2-7/16	61.9			
Ogee Bit	840.850.11	1-1/2	38.1	11/16	17.4	1/4	6.35					
Chamfer Bit	836.920.11	1-3/4	44.5	23/32	18.2			2-5/8	66.6			45°





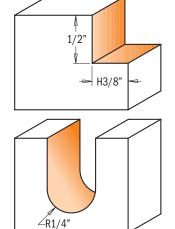


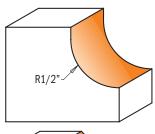


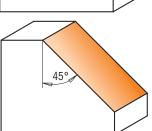


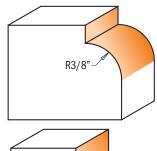


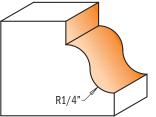












Drawing is 1:1 scale

# **800.504.11** 1/2" shank

SET CONTAINS	ORDER NO.			ı		R		L		Н		Α
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
Rabbeting Bit	835.817.11	1-1/4	31.7	1/2	12.7			2-13/32	61.1	3/8	9.52	
Cove Bit	837.850.11	1-1/2	38.1	5/8	15.87	1/2	12.7	2-17/32	64.2			
Roundover Bit	838.817.11	1-1/4	31.7	9/16	14.2	3/8	9.52	2-7/16	61.9			
Roundnose Bit	814.627.11	1/2	12.7	1-1/4	31.7	1/4	6.35	2-7/8	73			
Chamfer Bit	836.920.11	1-3/4	44.5	23/32	18.2			2-5/8	66.6			45°
Ogee Bit	840.850.11	1-1/2	38.1	11/16	17.4	1/4	6.35					





**⊸**5/16"

Min. 23/32"

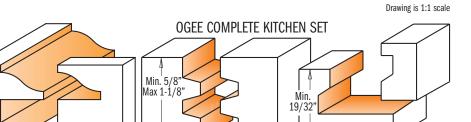
800.509.11 1/2" shank

890.501.11

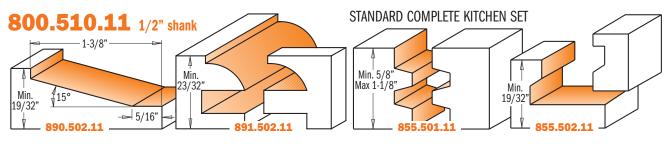
Min. 19/32"



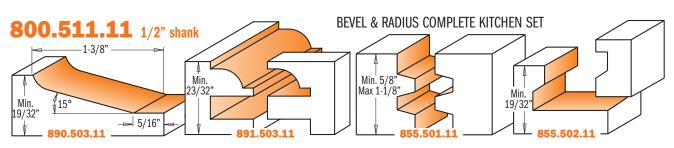




SET CONTAINS	ORDER NO.	D		I		T <sub>1</sub>	L		LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	inches	mm	inches
Ogee Raised Panel Bit	890.501.11	3-1/4	82.5	19/32	15	19/32 to 23/32	2-1/2	63.8	1/2
Ogee Rail & Stile Bits	891.501.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm
Reverse Glue Joint Bit	855.501.11	1-3/4	44.5	1-1/4	31.7	19/32 to 1-3/16	2-3/4	70.1	
Drawer Lock Bit	855.502.11	2	50.8	1/2	12.7	5/8 to 1	2	50.8	



SET CONTAINS	ORDER NO. D		ı		T <sub>1</sub>	L		LB	
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	inches	mm	inches
Standard Raised Panel Bit	890.502.11	3-1/4	82.5	19/32	15	19/32 to 23/32	2-1/2	63.8	1/2
Standard Rail & Stile Bits	891.502.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm
Reverse Glue Joint Bit	855.501.11	1-3/4	44.5	1-1/4	31.7	19/32 to 1-3/16	2-3/4	70.1	
Drawer Lock Bit	855.502.11	2	50.8	1/2	12.7	5/8 to 1	2	50.8	



SET CONTAINS	ORDER NO.	I	)	I		T <sub>1</sub>	L	LB	
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	inches	mm	inches
Bevel & Radius Raised Panel Bit	890.503.11	3-1/4	82.5	19/32	15	19/32 to 23/32	2-17/32	64.6	1/2
Bevel & Radius Rail & Stile Bits	891.503.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm
Reverse Glue joint Bit	855.501.11	1-3/4	44.5	1-1/4	31.7	19/32 to 1-3/16	2-3/4	70.1	
Drawer Lock Bit	855.502.11	2	50.8	1/2	12.7	5/8 to 1	2	50.8	









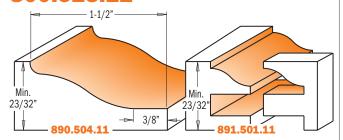


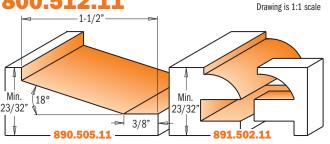




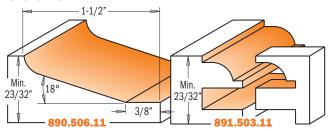


### 800.513.11

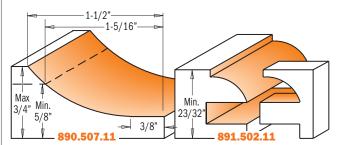




### 800.514.11



### 800.516.11



### **800.513.11** OGEE KITCHEN SET 1/2" shank

SET CONTAINS	ORDER NO.	[	)	- 1		T <sub>1</sub>	L		LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	inches	mm	inches
Ogee Raised Panel Bit	890.504.11	3-1/2	88.9	19/32	15	23/32 to 25/32	2-17/32	64.6	1/2
Ogee Rail & Stile Bits	891.501.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm

# **800.512.11** STANDARD KITCHEN SET 1/2" shank

Standard Raised Panel Bit	890.505.11	3-1/2	88.9	19/32	15	23/32 to 25/32	2-17/32	64.6	1/2
Standard Rail & Stile Bits	891.502.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm

### **800.514.11** BEVEL & RADIUS KITCHEN SET 1/2" shank

Bevel & Radius Raised Panel Bit	890.506.11	3-1/2	88.9	19/32	15	23/32 to 25/32	2-17/32	64.6	1/2
Bevel & Radius Rail & Stile Bits	891.503.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm

# **800.516.11** COVE KITCHEN SET 1/2" shank

Cove Raised Panel Bit	890.507.11	3-1/2	88.9	19/32	15	23/32 to 25/32	2-17/32	64.6	1/2
Standard Rail & Stile Bits	891.502.11	1-3/4	44.5			23/32 to 7/8	2-51/64	71	22mm











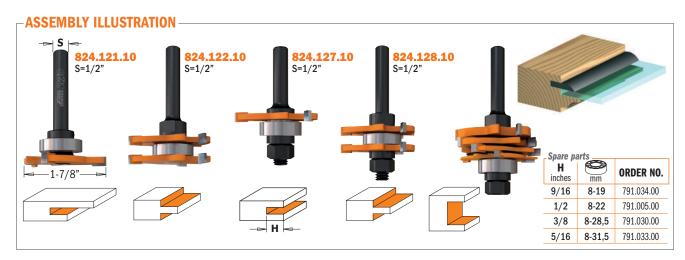




Create slots, grooves and rabbets in all materials using the adjustable CMT slot cutter set. See chart below for all applications and correct cutter combinations. Ideal for biscuit joints and milling perfect tongue and groove joints.

The set includes 4 different bearings which allow cutting depth of 5/16" - 3/8" - 1/2" and 9/16". Packaged in a sturdy recloseable plastic case.

SAFETY TIPS: never use the slot cutter set without shims between the cutters. The distance between the cutters can vary from 3/64" to 1/16". A shim must also be positioned between the ball bearing and the cutters.



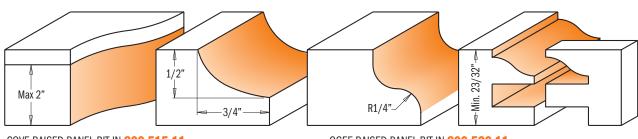
### 823.001.11

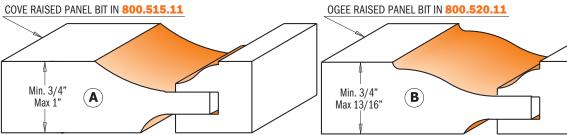
SET CONTAINS	PIECES	ORDER NO.	S inches	inches	l mm	inches	mm	B mm
Slot cutter	1	822.316.11		1/16	1.58	1-7/8	47.6	8
Slot cutter with 45° bore	1	823.332.11		1/8	3.17	1-7/8	47.6	8
Slot cutter with 45° bore	1	823.340.11		5/32	3.96	1-7/8	47.6	8
Slot cutter	1	822.348.11		3/16	4.76	1-7/8	47.6	8
Slot cutter with 45° bore	3	823.364.11		1/4	6.35	1-7/8	47.6	8
Slot cutter arbor with bearing Ø1/2" - 7/8"	1	824.121.10	1/2					
Slot cutter arbor with bearing Ø5/16" - 7/8"	1	824.122.10	1/2					
Slot cutter arbor with bearing Ø5/16" - 7/8"	1	824.127.10	1/2					
Slot cutter arbor with bearing Ø5/16" - 7/8"	1	824.128.10	1/2					
Bearing	1	791.033.00				1-1/4	31.7	8
Bearing	1	791.030.00				1-1/8	28.57	8
Bearing	1	791.034.00				3/4	19.05	8
Hex key 3mm	1	991.067.00						











**800.515.11** COVE CABINETMAKING SET 1/2" shank

SET CONTAINS	ORDER NO.	D				F	₹	L	LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	inches
Cove Raised Panel w/Back Cutter	890.527.11	3-1/2	89	1-1/8	28.5	1-1/2	38.1	3-35/64	1-1/4 & 16mm
Ogee Rail & Stile Bits	891.501.11	1-3/4	44.5	7/8	22.2	5/16	7.94	2-51/64	7/8
Super Duty Flush Trim Bit	806.690.11	3/4	19.05	2	50.8			4-5/16	3/4
Drawer Front Bit	837.955.11	2	50.8	1/2	12.7			2-13/32	1/2
Ogee Door Edge Bit	859.564.11	1-1/2	38.1	3/4	19.05	1/4	6.35	2-5/8	1/2

**800.520.11** OGEE CABINETMAKING SET 1/2" shank

SET CONTAINS	ORDER NO.	D	)	I		F	R	L	LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	inches
Ogee Raised Panel w/Back Cutter	890.524.11	3-1/2	89	1-1/8	28.5	15/16	23.8	3-5/64	1-1/4 & 16mm
Ogee Rail & Stile Bits	891.501.11	1-3/4	44.5	7/8	22.2	5/16	7.94	2-51/64	7/8
Super Duty Flush Trim Bit	806.690.11	3/4	19.05	2	50.8			4-5/16	3/4
Drawer Front Bit	837.955.11	2	50.8	1/2	12.7			2-13/32	1/2
Ogee Door Edge Bit	859.564.11	1-1/2	38.1	3/4	19.05	1/4	6.35	2-5/8	1/2

Drawing is 1:1 scale

### **Building Arched Raised Panel Doors**



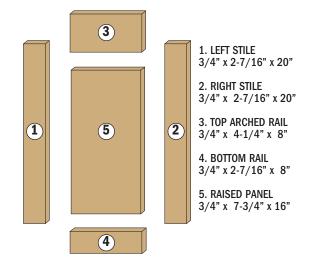
### STEP 1. MAKING A SAMPLE DOOR

- A) This sample door size is 12" wide by 20" long.
- **B)** The door thickness should be 3/4" 7/8"

# STEP 2. DETERMINING THE SIZES OF EACH PART OF THE DOOR

- A) Always use a 1/2" overlay on all sides of the door.
- **B)** If the door opening is 11" wide by 19" high then the door size is 12" x 20".

**IMPORTANT:** Use 2-7/16" wide stiles so the templates will work properly.



### 1-2. LEFT AND RIGHT STILES

- A) Always cut stiles 2-7/16" wide.
- B) Length of stiles is same as door length.

### 3. TOP ARCHED RAIL

- A) Cut 4-1/4" wide. Templates are 4" wide.
- B) Length of rail is found by subtracting 4" from the total door width. (Overall door width is 12" minus 4"= 8" length of rail)

NOTE: THIS FOLLOWING PROCEDURE CAN ONLY BE USED WHEN USING 2-7/16" WIDE STILES. SUBTRACT 4" FROM THE TOTAL DOOR WIDTH INSTEAD OF 4-7/8" SINCE 7/16" IN EACH STILE WILL BE TAKEN UP IN THE PATTERN CUT.

### 4. BOTTOM RAIL

- A) Always cut 2-7/16" wide.
- B) Length of rail is again found by subtracting 4" from the total door width. (Overall door width is 12" minus 4" = 8" for bottom rail lengths)

### 5. RAISED PANEL

- **A)** Width is always 1/4" less than rail length.
  - (1/8" space should be left on each side for expansion of panel)
- **B)** Rail length is 8" minus 1/4" = 7-3/4" width of raised panel.
- **C)** Length of raised panel is found by taking the overall doorlength and again subtracting 4".

(Overall door length is 20" minus 4" = 16" length of panel)

SUBTRACT 4" FROM THE OVERALL LENGTH OF THE DOOR. SUBTRACT 4" INSTEAD OF 4-7/8" SINCE THE PATTERN CUT TAKES UP 7/16" ON EACH RAIL.

At this point, all 5 pieces of the door should be cut to the correct size.

# STEP 3. CUTTING THE COPE CUTS ON EACH END OF THE 2 RAILS

- A) Cope cutter is the cutter with the bearing in the middle
- **B)** Set the cope cutter to the correct height in the router.
- 1) The correct height is when, after the cut is made, the reveal on the front side should be 1/8" minimum (Illustration 1)
- 2) Spaces A and B shown should be equal.

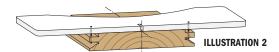
  If one is to be bigger, make B thicker for strength of panel.
  - igger, 1/8"
    or
    el.
    with
    B
    ILLUSTRATION 1
- **C)** Set fence even with bearing.
- **D)** Use wooden pushblock to prevent tearout at end of cope cut.
- E) Run stock through with good side down at 14,000-16,000 RPMs.

# STEP 4. USING RAIL TEMPLATE TO FLUSH TRIM TOP RAIL TO CORRECT SHAPE

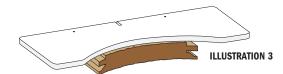
- A) Locate center of top rail with pencil on the back side.
- **B)** Pick out the correct template.

NOTE: THE SIZE ON THE TEMPLATE IS FOR THE OVERALL DOOR WIDTH. FOR THE TEMPLATES TO WORK PROPERLY STILES MUST BE MADE 2-7/16" WIDE. IF STILES ARE MADE IN DIFFERENT WIDTHS, ADJUSTMENTS IN PICKING OUT TEMPLATES MUST BE MADE.

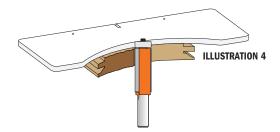
**C)** Line up template on back side of rail centering the notch of template with center line of rail. Now nail through the template into the 2 copes that were just cut (Illustration 2).



**D)** Rough cut with jig or band saw within 1/8" or 1/4" of template (Illustration 3).



**E)** Put flush trimming bit into router and set so bearing is flush with template (Illustration 4).

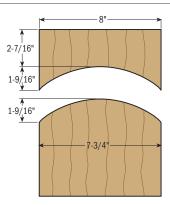


**F)** Run router at 20,000-22,000 RPMs and flush trim top crown rail with good side down.

### **Building Arched Raised Panel Doors**



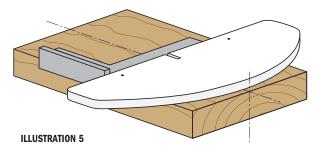
NOTE: WHEN STARTING
CUT, ALWAYS
REMEMBER TO
MAKE CONTACT
WITH BEARING TO
A PLACE ON THE
TEMPLATE WHERE
THERE IS NO
WOOD TO PREVENT
KICKBACK.



**G)** Slow down at end of cut to prevent tearout. Leave template attached to rail for now.

# STEP 5. USING PANEL TEMPLATE TO FLUSH TRIM THE RAISED PANEL TO SHAPE

- A) Locate center of raised panel on front side.
- B) Pick out correct template (same size as rail template).
- **C)** Line up center notch of template with center line of panel and make sure it is also square (Illustration 5).
- D) Nail template to panel about 1/2" in from each side (Illustration 5).



**NOTE:** DRIVE NAILS IN ABOUT 1/4"-3/8". THE NAIL HOLES WILL BE MACHINED OUT WHEN RAISED PANEL CUT IS MADE.

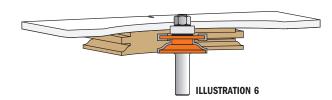
- **E)** Rough cut stock to within 1/8" 1/4" of template.
- F) Flush trim raised panel in the same manner as you did the top rail with the template on top (Back to illustration 4).

**NOTE:** AGAIN MAKE SURE BEARING COMES IN CONTACT WITH TEMPLATE FIRST AND THEN GUIDE INTO THE WOOD.

G) Pull nails out after flush trimmed.

# STEP 6. CUTTING FREEHAND PATTERN CUT ON TOP ARCHED RAIL

- A) Pattern cutter is the cutter with the bearing on top.
- **B)** Insert pattern cutting bit to correct height to match cope cut. This can be done by making a few practice cuts in scrap wood.
- **C)** Run router at 14,000-16,000 RPMs.
- **D)** Start cut with bearing making contact with template only and ease into cut. No fence is used. (Illustration 6).
- E) Slow down at end of cut to prevent any chipout.
- F) Remove template from top arched rail.



# STEP 7. CUTTING THE STRAIGHT BOTTOM RAIL AND 2 STILES

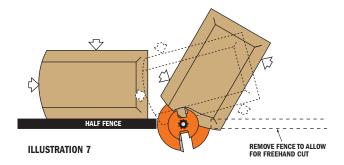
- A) Insert fence and line up fence with bearing on the same pattern cutter.
- **B)** Run router 14,000-16,000 RPMs
- C) Use push-block and push bottom rail through with good side down.

### **STEP 8. MAKING RAISED PANEL CUT**

A) Insert panel cutter to correct height.

**NOTE:** IT MAY TAKE A COUPLE OF PRACTICE CUTS IN SCRAP WOOD BEFORE GETTING THE PANEL FLUSH WITH PATTERN CUT.

- **B)** Set fence so it is even with bearing on panel cutter.
- C) Run router slow 10,000 RPMs. ALWAYS USE PUSH BLOCKS FOR SAFETY.
- **D)** Make first cut across the grain with good side face down.
- E) Cut with the grain on left side.
- **F)** Remove fence and use a half-fence. (Illustration 7)
- **G)** Start by re-doing left side and come around and cut the curved top of the panel freehand.
- H) Install full fence and complete right side.





# 3-piece Junior Raised Panel Sets with Back Cutter



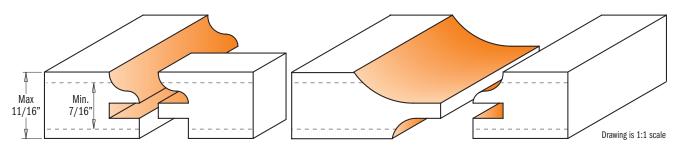






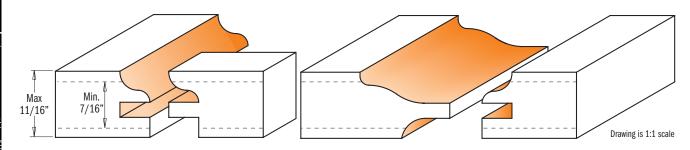


CMT's Junior Raised Panel Sets add intricate detail on a whole new scale! The Junior Raised Panel Set lets you make frame and panel details as small as 2-3/4" square in material as thin as 7/16". Delicate panel doors are only the beginning - use these bits with templates to add interesting arches to your work. The set includes your choice of a Cove or Ogee Raised Panel Bit and an Ogee Rail & Stile pair. Packaged in a handy lightweight recloseable plastic case.



# **800.518.11** COVE JUNIOR RAISED PANEL SET 1/2" shank

SET CONTAINS	ORDER NO.	1	D	I		R		L	LB
oei ooniamo	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	inches
Cove Junior Raised Panel w/Back Cutter	890.537.11	2-1/2	63.5	11/16	17.4	3/4	19.05	2-3/4	5/8
Ogee Junior Rail & Stile Bits	891.517.11	1-1/4	31.7	11/16	17.4	1/8-3/16	3.2-4.7	2-41/64	5/8



# 800.522.11 OGEE JUNIOR RAISED PANEL SET 1/2" shan

SET CONTAINS	ORDER NO.		D	I		R		L	LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	inches
Ogee Junior Raised Panel w/Back Cutter	890.534.11	2-1/2	63.5	11/16	17.4	1/2	12.7	2-3/4	5/8
Ogee Junior Rail & Stile Bits	891.517.11	1-1/4	31.7	11/16	17.4	1/8-3/16	3.2-4.7	2-41/64	5/8



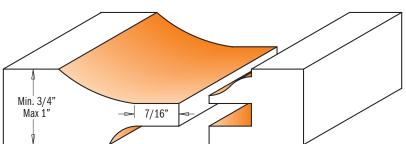


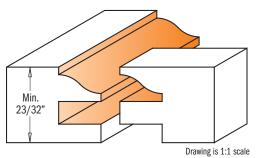






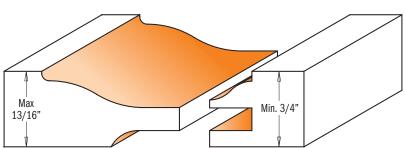
If your project calls for top quality raised panel doors, milled with accuracy and efficiency, then this set is a great choice. The ogee rail and stile bits are made to exact specifications to match perfectly, and the stile cutter is designed with a shear angle to produce superior cuts with minimal splintering. The raised panel bit is available with either cove or ogee profiles. Both bits include a back cutter which allows milling of the front and back of the panel in a single pass. Packaged in a sturdy recloseable plastic case.

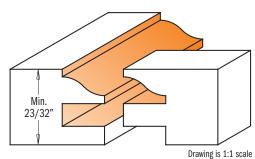




# **800.517.11** COVE RAISED PANEL SET 1/2" shank

SET CONTAINS	ORDER NO.		)	I	1			L	LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	inches
Cove Raised Panel w/Back Cutter	890.527.11	3-1/2	89	1-1/8	28.5	1-1/2	38.1	3-5/64	1-1/4 & 16mm
Ogee Rail & Stile Bits	891.501.11	1-3/4	44.5	7/8	22.2	5/16	7.94	2-51/64	7/8





# **800.521.11** OGEE RAISED PANEL SET 1/2" shank

SET CONTAINS	ORDER NO.	D	)	I	1			L	LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	inches
Ogee Raised Panel w/Back Cutter	890.524.11	3-1/2	89	1-1/8	28.5	15/16	23.8	3-5/64	1-1/4 & 16mm
Ogee Rail & Stile Bits	891.501.11	1-3/4	44.5	7/8	22.2	5/16	7.94	2-51/64	7/8







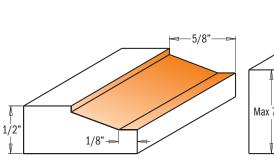


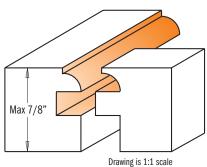
This three-piece set will produce beautiful raised panel doors with a classic, diminutive beveled profile. Designed for use in fine furniture making, the set includes two matched cope and stick bits for producing frames in 5/8" to 3/4" thick material.

The stick bit shapes a decorative 3/16" thumbnail molding along the edge of the frame. The panel bit is designed for 1/2" thick material. All bits are equipped

with guide bearings for shaping curved work such as the small arched panel doors seen on secretaries and corner cabinetry.

This set also produces panels for small chests, lids for small boxes, or drawer fronts. Instructions included. Packaged in a sturdy recloseable plastic case.







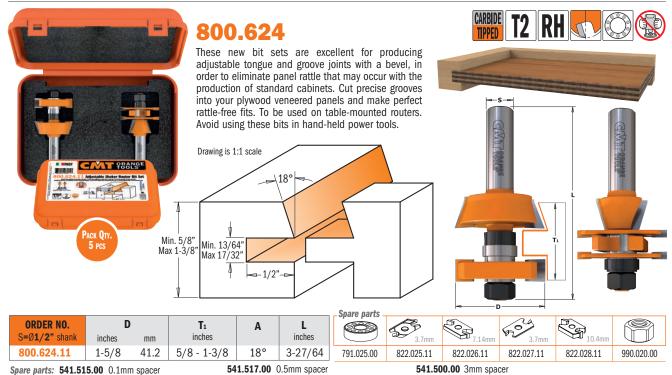
### 800.524.11 1/2" shank

SET CONTAINS	ORDER NO.	D	)	ı		T <sub>1</sub>	L		LB
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	inches	mm	inches
Small Standard Raised Panel Set	890.512.11	1-7/8	47.6	3/8	9.52	1/2 to 19/32	2-9/32	58	1/2
Small Standard Rail & Stile Bits	891.512.11	1-1/8	28.7			5/8 to 7/8	3-1/8	79.2	16mm

541.516.00 0.3mm spacer

**541.516.00** 0.3mm spacer





541.519.00 5.8mm spacer

**541.519.00** 5.8mm spacer

# Adjustable Tongue & Groove Bit Set for Mission Style Cabinet Doors

541.518.00 1mm spacer



541.518.00 1mm spacer















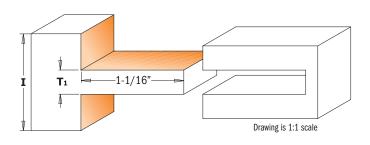
### Cut perfectly fitted tenons, everytime.

If you've struggled cutting tenons that fit, here's the perfect solution for precise tenons. CMT's new tenon cutting router bit will produce perfectly fitting tenons in every board you cut, even if the boards vary slightly in thickness. Simply set the distance between the cutters using the included spacers, and you can easily cut tenons from 3/16" to 5/8" thick, up to 1-1/16" long. This simple-to-use router bit takes the mystery out of achieving the excellent tenon-to-mortise fit required for high quality joinery.

### **SAFETY PRECAUTIONS:**

maximum speed: 12,000 rpm.

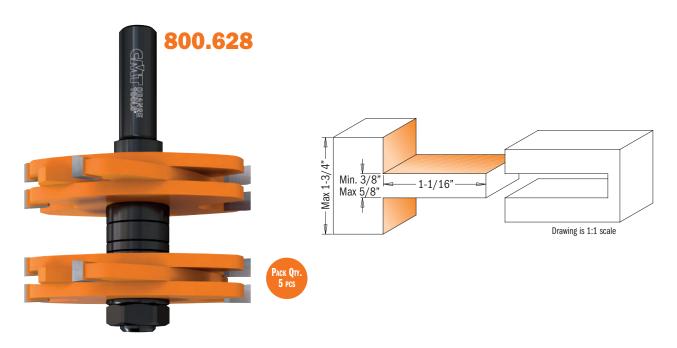
Router table only.



<b>ORDER NO.</b> S=Ø <b>1/2</b> " shank	inches	mm	<b>D</b> inches	T <sub>1</sub> inches	L inches
800.627.11	1-3/8	34.9	3	3/16 - 3/8	3-5/16

Spare parts Pog 822.020.11 541.526.00 541.520.00 541.521.00 824.134.00 541.522.00 541.523.00

**Spare parts: 990.022.00** Nut for arbor, M12x1.25mm



						. Spare parts						
ORDER NO. S=Ø1/2" shank	inches	mm	<b>D</b> inches	T <sub>1</sub> inches	L inches			0.1mm	0.3mm	1/16"	1/8"	1/4"
800.628.11	1-3/4	44.5	3	3/8 - 5/8	4	824.135.00	822.020.11	541.526.00	541.520.00	541.521.00	541.522.00	541.523.00

Spare parts: 990.022.00 Nut for arbor, M12x1.25mm















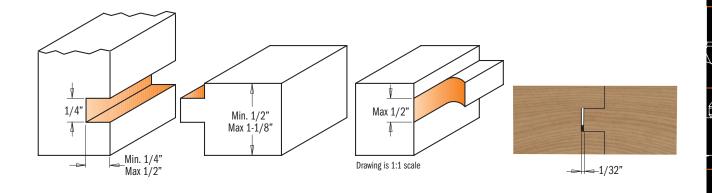


CMT has developed a tongue and groove cabinet making system that derives from traditional European methods of joinery. Combine the CMT tongue and groove system with the ease and speed of new world pocket hole methods and you have the versatility to build single cabinets or entire kitchens! The CMT Tongue and Groove Set includes a matched set that produces a 1/4" x 1/4" tongue. The feature of the CMT system that sets it apart from other tongue and groove sets is that the tongue is offset to one side of the joint.

This system produces a stronger joint creating a greater drilling area when used in conjunction with the CMT Pocket Pro™ and face frame screws. When the Pocket Pro™ is set at the one inch setting, the screw will bypass the tongue and get a full bite in the grooved section, producing a much stronger joint. In some cabinet making applications, it is necessary to trim portions of the tongue. For this reason, we have included a 1/2" shank flush trim bit to complete the three piece set.

The CMT tongue and groove joint is used in every element of cabinetry. When used in conjunction with the CMT Pocket Pro™ System you can combine the most appealing characteristics of traditional European joinery together with the newest techniques for crafting face frame joints, even in concealed areas where bottoms, sides and dividers are attached to the face frame.

You can be sure that you are buying an original CMT product by checking the tool shank. Only genuine CMT bits carry the one and only CMT Orange Tools mark! Packaged in a sturdy recloseable plastic case.



### 800.526.11 1/2" shank

SET CONTAINS	ORDER NO.	D			I	L			В
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm
Flush Trim	806.628.11	1/2	12.7	1/2	12.7	2-25/32	70.6	1/2	12.7
Rail & Stile	855.507.11	1-11/16	42.8	1-1/8	28.5	2-3/4	70	1-1/4	31.7



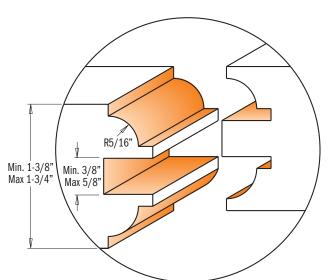






INSTRUCTION MANUAL INCLUDED!

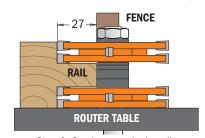




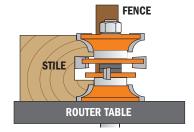
The new CMT three-piece set simplifies door construction, making it easy as 1-2-3! This handy multi-functional set creates fine entry and passage doors as well as beautiful furniture tenons. The featured tenon cutter produces a beefy 1-1/16" long tenons. Coupled with the cope cutter, strong tenons are a breeze and with minimum set up. As an extra bonus, the tenon cutter can be used for furniture making that requires a tenon anywhere from 3/16" to 5/8" in thickness. Packaged in a sturdy recloseable plastic case.



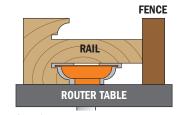
### ENTRY & INTERIOR DOOR CONSTRUCTION - EASY AS 1-2-3!



Step 1. Cut the tenon in the rails



**Step 2.** Cut the groove and door profile in all the pieces.



**Step 3.** Undercut the tenons to cope the ends of the rails.

### **800.527.11** 1/2" shank

SET CONTAINS	ORDER NO.		)	I		T <sub>1</sub>	L		В
SEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	inches	mm	mm
Tenon Cutting Router Bit	800.628.11	3	76	1-3/4	44.5	3/8 to 5/8	3-15/16	100	
Rail & Stile Router Bit Set	855.806.11	1-7/8	47.6	1-3/4	44.5	1-3/8 to 1-3/4	4	101.6	22

















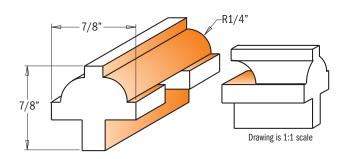


Build authentic divided light doors for fine furniture and cabinets with this 3-piece set. The set includes a stick bit to cut the decorative ovolo profile on the frame edges, a cope bit which shapes the mating profile on the ends of the stock, and a rabbeting bit for cutting the recess for the glass. Because the bits

have guide bearings you can also create arched or curved frames.

The unique design of the cope bit allows you to use full-length tenons to create strong, authentic mortise-and-tenon joinery. As the stock is coped, the tenon passes over the bit. The set is designed for 7/8" wide bars such as those on a corner cupboard door. Instructions included.

Note: You will need to produce mortise and tenon joints with a tenoning jig or other tools. Packaged in a sturdy recloseable plastic case.





### 800.525.11 1/2" shank

SET CONTAINS	ORDER NO.	[	)		I	F	2	L		I	1
JEI CONTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
Rabbeting Bit	835.850.11	1-3/8	34.9	1/2	12.7			2-11/32	59.4	1/2	12.7
Rail & Stile Bits	855.802.11	1-1/4	31.7	1/2	12.7	1/4	6.35	2-1/4	57		











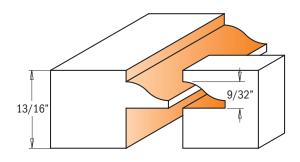


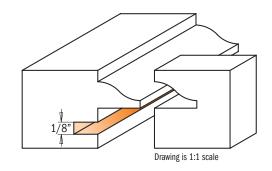






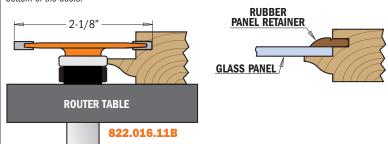
CMT's unique stile and rail set allows you to produce glass panel doors utilizing a rubber panel retainer to secure the glass in a 1/8" slot cut into the frames. These 1/2" shank bits work the same as our other stile and rail sets, but leave you with a square rabbet on the inside of your door for glass installation. Packaged in a sturdy recloseable plastic case.





### Here's how it works:

Mill the cope and pattern cuts first, then use the slot cutter to cut the groove for the rubber panel retainer. The edge of the pattern cut will ride on the bearing of the slot cutter bit. When you cut the slot in the rails you can cut the slot the full length of the stock. When you cut the slot in the stiles you need to set up reference points to stop and start the cuts so they are hidden from view on the top and bottom of the doors.





## 855.803.11

1/2" shank

SET CONTAINS	ORDER NO.	D	)			F	R .	L	
SEI GORTAINS	S=Ø <b>1/2</b> " shank	inches	mm	inches	mm	inches	mm	inches	mm
Ogee Rail & Stile Set	855.803.11MF	1-5/8	41.2	13/16	20.6	5/16	7.94	3-1/32	77
1/8" Slot Cutter	822.016.11B	2-1/8	53.9	1/8	3.17			2-13/64	55.9









235.006.07

This set lets you make crown molding that surpasses anything you'll find at the lumberyard, and that's just the beginning! By arranging the profiles of the six router bits in various combinations you can create dozens - or hundreds - of different decorative profiles!

The set consists of a 7" diameter, 5/8" arbor cove cutter for your table saw, and six 1/2" shank carbide tipped router bits.

All six bits - three ogees and three roundovers - feature CMT's unique inverted design. Why use inverted profiles?

Because the flat face of your workpiece always remains firmly anchored to your router table for unprecedented accuracy and control. Packaged in a sturdy recloseable plastic case.

### **800.523.11** 1/2" shank

SET CONTAINS	<b>ORDER NO.</b> S=Ø <b>1/2"</b> shank
Inverted roman ogee profile - 5/32" radius	867.501.11B
Inverted roman ogee profile - 5/32" radius	867.502.11B
Inverted roman ogee profile - 1/4" radius	867.503.11B
Inverted roundover profile - 1/4" radius	867.601.11B
Inverted roundover profile - 5/16" radius	867.602.11B
Inverted roundover profile - 3/8" radius	867.603.11B
Cove cutter head - 7" diameter, 6 carbide teeth, 5/8" bore	235.006.07
Shim, 5/8" bore	299.011.00





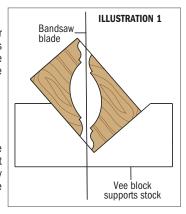


### Creating decorative molding with CMT's Crown Molding Set

CMT's Crown Molding Set allows you to shape elegant moldings with your tablesaw and router table. The set consists of a cove cutter and six router bits with inverted profiles. The cove cutter mounts on your tablesaw and is used in conjunction with a pair of angled fences. Changing the fence angle and cutter height allows you to create an almost infinite variety of cove shapes and sizes. After milling the cove, you can use the special router bits with inverted profiles to complete the molding.

### **PLAN YOUR CUTS**

Begin with a drawing of your design or use one of the designs shown below. Next, sketch the cove outline on each end of the stock as shown at right.



### PREPARE THE STOCK

In order to get the best possible yield from your stock, we suggest that you rip the stock diagonally on a bandsaw before milling the cove as shown in **illustration 1**.

### **MOUNTING THE CUTTERHEAD**

Begin by disconnecting the tablesaw from its power source and removing the blade. To mount the cutterhead, first position the 2-5/8" diameter spacer that came with the set against the flange on the saw arbor. The spacer will center the cutterhead within the throat plate opening. Next, position the cutterhead on the arbor and secure the assembly with the washer and arbor nut. Finally, place the dado throat plate in position. Before turning on the power, rotate the cutterhead by hand to be certain that it clears the throat plate.

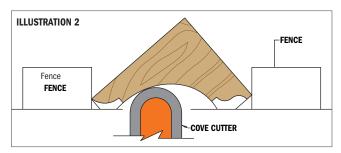
### MILLING COVES

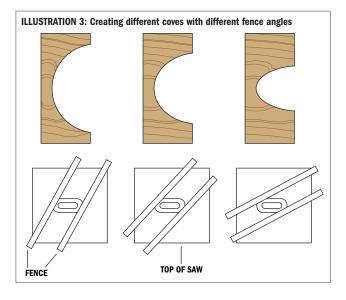
This process is very similar to cutting coves with a standard saw blade on a table saw. If this operation is new to you or if you have questions beyond the instructions, we highly recommend you take time to further study this technique in either a woodworking class or consult a woodworking book that teaches the safest way to perform this operation.

Always make your molding by milling the cove first while the stock has the greatest mass. To safely use the cove cutter, it's necessary to have a dado head insert plate for your saw. Use a dual fence set up as shown in **illustrations 2 & 3** to guide and support the workpiece as the cove is shaped. The fences are clamped to the top of the tablesaw and the stock passes between them, running at an angle to the cutting blade. With the cutterhead height set at the depth of the cove to be cut, position a fence at an angle so that the stock enters the cutter along the left leading edge and exits the stock along the right trailing edge.

Before making the first cut, lower the cutterhead to 1/16" above the table top. Turn on the power and feed the stock slowly between the fences; after each pass raise the cutterhead another 1/16".

Remember to use a guard and push blocks for added safety.





### **ROUTING MOLDINGS WITH THE INVERTED BITS**

Because the profiles are inverted on the shank, you can rout large moldings that are impossible to shape with ordinary router bits.

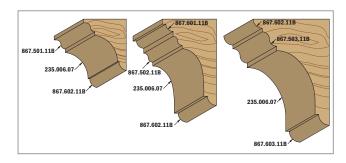
Before routing, always begin with a drawing of the molding that you would like to produce. Remember, begin by shaping the cove with the cove cutter on your tablesaw, then set up the routing tasks.

Afterwards, rout the profiles that flank each side of the cove. Use your router table and a fence for the best support of the stock.

For added safety and the smoothest possible surface, always take multiple light cuts and support the workpiece with featherboards.

### **MILLING CURVED MOLDINGS**

The inverted router bits each have a bearing mounted on the shank. This feature allows you to shape curved profiles such as gooseneck and circular moldings. When routing curved moldings, first attach a plywood template to the workpiece to serve as a guide for the bearing to ride on.



# CONTRACTOR ROUTER BITS BY CIVIT



Deluxe packaging

For value-driven contractors, remodelers and DIYers.
Great quality/price ratio and long-lasting performance.



### HEAT-TREATED SHANK & BODY FOR GREATER DURABILITY

The bits are made from the finest steel hardened to reach 58 Rockwell which ensures durability and good cutting performance.



### ANTI-KICKBACK DESIGN

Controls depth of cut and minimizes kickback reducing your risk of injury.



### SINTERHIP HI-DENSITY CARBIDE

New process called SinterHIP (Hot Isostatic Pressing), helps prevent material failure and increases cutting life.



# CORROSION-FREE BLACK COATING

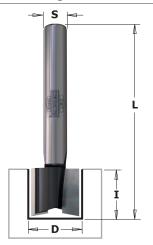
Protects against corrosion and provides a longer bit life.



# PRECISION GROUND CUTTING EDGES

Each cutting edge is precisely sharpened to obtain a sharp and durable cutting angle.





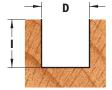


### 801



Hi-Density carbide cutting edges provide good performance in mortising applications eliminating splintered edges and rough bottoms. Works well on natural wood and wood composites.

ORDER NO. S=Ø1/4" shank	务	inches	mm	I inches	L inches
80101	10	1/2	12.7	1/2	2
80105	10	5/8	15.87	25/32	2
80107	10	3/4	19.05	25/32	2



Drawing is 1:1 scale

# Straight Bits

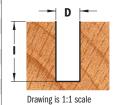


## 811 - 812



Designed for making slots and routing channels in wood and wood composites. Hi-Density carbide-tipped cutting edges provide smooth performance and a precise cut. Engineered for efficient chip clearance.

ORDER NO. S=Ø1/4" shank	8	inches	<b>D</b> mm	l inches	L inches
81103*	10	1/8	3.2	5/16	2
81105*	10	3/16	4.75	1/2	2
81108*	10	1/4	6.35	5/8	1-7/8
81203	10	1/4	6.35	1	2-1/2
81112	10	5/16	8	1	2-1/4
81115	10	3/8	9.52	1	2-3/16
81119	10	1/2	12.7	1	2-3/16
81208	10	1/2	12.7	1-1/4	2-7/16
81125	10	5/8	15.87	1	2-3/16
81131	10	3/4	19.05	1	2-3/16



Pattern Bits

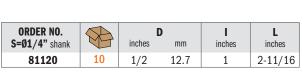


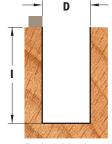


### **81**1

CARBIDE T2 RH

Our pattern bit makes template routing easy and accurate. Create cabinets, furniture, signs, toys or just about any other project you can imagine. Our smooth-running top bearing will glide along your template creating a perfect copy in the wood piece below.





Drawing is 1:1 scale







### 806









Precise flush trimming of wood or laminate material. Bottom bearing runs effortlessly against finished work piece delivering a smooth to the touch flush trim cut. Two carbide-tipped cutting edge design optimizes performance.

ORDER NO. S=Ø1/4" shank	8	inches	mm	inches	L inches
80603	10	3/8	9.52	9/16	2-3/16
80604	10	1/2	12.7	1	2-5/8
80605	10	1/2	12.7	1/2	2-3/16



Drawing is 1:1 scale

### **Laminate Trimmer Bits**





842 - 843





Solid Sinterhip Hi-Density Carbide provides a sharp cutting edge and long life. Features a selfpilot tip and radial relief edge. You can choose either a flush or 7° bevel cut on laminate edge.

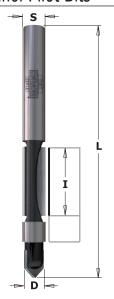
ORDER NO. S=Ø1/4" shank	8	inches	mm	I inches	Α	L inches
84201	10	1/4	6.35	3/8	0°	1-1/2
84301	10	1/4	6.35	1/4	7°	1-1/2

Ideal for trimming veneered boards, laminates and FORMICA®.



Drawing is 1:1 scale

### Panel Pilot Bits





### 816

Quickly cut openings in panel, drywall and siding for door and window openings. Features a sharpened carbide tip for plunging and two carbide cutters for fast, smooth cuts.



ORDER NO.	ORDER NO.	A	I	D	I	L
<b>S=Ø1/4"</b> shank	<b>S=Ø1/2"</b> shank		inches	mm	inches	inches
81601		10	1/4	6.35	3/4	2-5/8
	81651	10	1/2	12.7	1	3-5/8



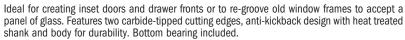


CMT

CONTRACTOR

# 835





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ORDER NO. S=Ø1/4" shank	8	inches	mm	I inches	<b>H</b> inches	L inches
83501	10	1-1/4	31.7	1/2	3/8	2-1/8
83503	10	1-1/2	38.1	1/2	1/2	2-1/8



Drawing is 1:1 scale

# Keyhole Bit



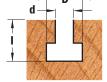


### 850



Easily create a hardware-free way to hang pictures and plaques on a wall. Cuts a key-holed groove or slot in a variety of materials such as wood, plywood and laminates.

ORDER NO.	\$	D		d	ı	L
<b>S=Ø1/4"</b> shank		inches	mm	inches	inches	inches
85001	10	3/8	9.52	3/16	7/16	1-7/8



Drawing is 1:1 scale

# **Dovetail Bits**



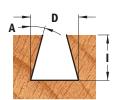


### 818



Use our bits with some of the most popular dovetail jigs on the market to create clean dovetail joints in wood and wood composite material. Balanced for good performance.

ORDER NO. S=Ø1/4" shank	8	inches	mm	I inches	A	L inches
81809	10	3/8	9.52	3/8	9°	1-3/4
81815	10	1/2	12.7	1/2	15°	2-1/16
81821	10	9/16	14.2	1	7.5°	2-5/8



Drawing is 1:1 scale

# **Chamfer Bit**













CMT 836 CONTRACTOR

TOOLS

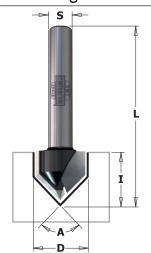
Produce clean, accurate bevel or chamfer edges for edge jointing, decorative edges or perfectly aligned boxes. Features two carbide-tipped cutting edges, anti-kickback design with heat treated shank and body for durability. Bottom bearing included.

ORDER NO. S=Ø1/4" shank	8	inches	mm	l inches	A	L inches
83605	10	1-3/8	34.9	7/16	45°	2-3/16



Drawing is 1:1 scale

# V-Grooving Bits



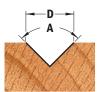


# 858 - 815



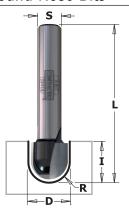
Make a clean sharp V-groove in panel and drawer fronts for decorative projects. Good for engraving letters for signs, they feature two sharp carbide-tipped cutting edges for smooth fast cutting. Choose from our 60° or 90° V-groove angle.

ORDER NO. S=Ø1/4" shank	8	inches	mm	inches	A	L inches
85801	10	7/16	11	9/16	60°	1-3/4
81503	10	1/2	12.7	1/2	90°	1-3/4



Drawing is 1:1 scale

# Round Nose Bits

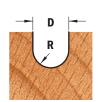




# 814

Designed for professional sign and cabinet makers. Use the round nose to make decorative doors, drawer fronts, signs or add a design to any other creative project. Features two carbidetipped cutting edges which provide a smooth cut in wood and wood products.

ORDER NO. S=Ø1/4" shank		inches	<b>D</b>	l inches	R inches	L inches
81410	10	1/4	6.35	3/8	1/8	1-9/16
81411	10	3/8	9.52	3/8	3/16	1-9/16
81404	10	1/2	12.7	1/2	1/4	1-9/16
81412	10	5/8	15.87	1/2	5/16	1-3/4
81408	10	3/4	19.05	1/2	3/8	1-13/16



Drawing is 1:1 scale









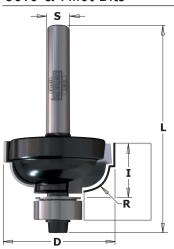
Give your doors and drawer fronts an elegant touch. Pair a cove bit with a roundover bit to create decorative elements on your furniture projects. Features two carbide-tipped cutting edges, anti-kickback design, heat treated shank and body for durability. Bottom bearing included.

ORDER NO. S=Ø1/4" shank	8	inches	mm	inches	R inches	L inches
83702	10	1	25.4	1/2	1/4	2-1/8
83704	10	1-1/4	31.7	9/16	3/8	2-3/16
83705	10	1-1/2	38.1	5/8	1/2	2-7/16



Drawing is 1:1 scale

# Cove & Fillet Bits





# 863



Cove & fillet bits are a perfect option to add elegance to your furniture! These bits combine a traditional cove cut with a fillet cut to create an eye-catching effect. They feature two carbidetipped cutting edges, anti-kickback design and a heat treated shank and body for unbeatable durability. Bottom bearing included.

ORDER NO. S=Ø1/4" shank	8	inches	mm	inches	R inches	L inches
86301	10	1	25.4	1/2	3/16	2-1/8
86303	10	1-1/8	28.5	17/32	1/4	2-1/8
86304	10	1-3/8	34.9	21/32	3/8	2-5/16

EACH BIT INCLUDES A 3/8" BEARING FOR BEADING PROFILES

Drawing is 1:1 scale

# Roundover & Beading Bits





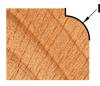
# 838



A popular profile for taking the edge off a sharp corners. When partnered with a cove bit, you can create a drop-leaf table or other intricate projects. Bits equipped with two carbide-tipped cutting edges, anti-kickback design, and heat treated shank/body for increased durability. Bottom bearing included.

ORDER NO. S=Ø1/4" shank	8	inches	mm	l inches	R inches	L inches
83801	10	5/8	15.87	5/16	1/16	2
83802	10	3/4	19.05	27/64	1/8	2-1/16
83803	10	7/8	22.2	1/2	3/16	2-1/8
83804	10	1	25.4	17/32	1/4	2-1/8
83806	10	1-1/4	31.7	21/32	3/8	2-1/4
83807	10	1-1/2	38.1	3/4	1/2	2-3/8
83808	10	1-3/4	44.5	7/8	5/8	2-5/8

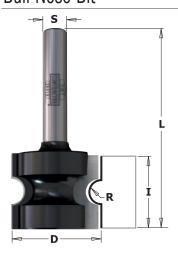






Drawing is 1:1 scale









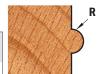






Ideal for shaping the full edge of any work piece with a smooth bull nose radius. Create a bull nose edge on stair treads, window sills, table tops, shelves, molding and counters. Good for use on natural wood and wood-based materials.

ORDER NO.	8	:	)	1	R	L
<b>S=Ø1/4"</b> shank		inches	mm	inches	inches	inches
85401	10	7/8	22.2	3/4	1/8	2



Drawing is 1:1 scale

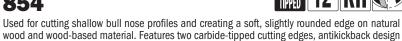
# Convex Edge Bit

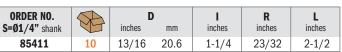




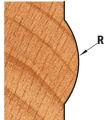
# 854







and heat treated shank and body for increased durability.



Drawing is 1:1 scale

# Ovolo Bit





# 827

Ideal for furniture makers, you get a roundover with top and bottom bead all in one. Bit equipped with two carbide-tipped cutting edges, features anti-kickback design and heat treated shank and body for increased durability.

ORDER NO. S=Ø1/4" shank	8	inches	mm	I inches	R inches	L inches
82706	10	1	25.4	9/16	1/4	1-13/16



Drawing is 1:1 scale

# Corner Bead Bit







# 861



Used for antique reproduction, restoration projects and furniture details. This tool may look like a bull nose bit, but a smaller cutting diameter adjacent to the bearing gives a truly unique shape. Make one pass to mill an attractive rounded edge, or two passes to mill a full-round corner bead. Features two carbide-tipped cutting edges, anti-kickback design and heat treated shank and body for durability. Bottom bearing included.

ORDER NO. S=Ø1/4" shank	8	inches	) mm	I inches	R inches	L inches
86102	10	1	25.4	11/16	3/16	2-5/16



Drawing is 1:1 scale

# Plunge Ogee Bit





# 848



T2 RH

Lots of creative applications are possible with this bit. Add a classic touch to any edge or highlight door fronts and panels with a decorative layered effect. Features two carbide-tipped cutting edges, along with heat treated shank and body for durability.

ORDER NO. S=Ø1/4" shank	邻	inches	mm	I inches	R inches	L inches
84805	10	1/2	12.7	1/2	3/32	1-13/16



Drawing is 1:1 scale

# Decorative Ogee Bit

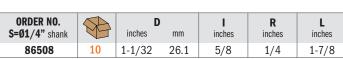


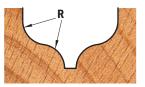


# 865



Use this tool to make decorative veining or edges on doors and drawer fronts. Equipped with two carbide-tipped cutting edges and heat treated shank and body for durability.





Drawing is 1:1 scale

# Roman Ogee Bits







# 840









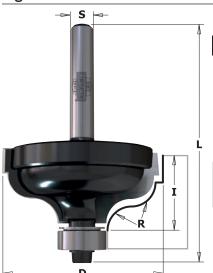
A very popular bit for making a wavy profile which, gives a touch of class to your furniture. These bits feature an anti-kickback design, rust-resistant black coating and include a smooth running bearing for template work.

ORDER NO. S=Ø1/4" shank	8	inches	mm	I inches	R inches	L inches
84001	10	1-1/8	28.5	1/2	5/32	2-1/8
84002	10	1-1/2	38.1	11/16	1/4	2-3/8



Drawing is 1:1 scale

# Ogee with Fillet Bit







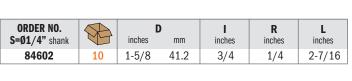








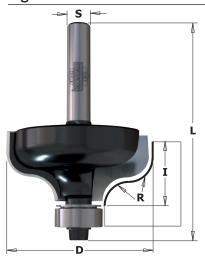
Create a wavy shape with a fillet on top for your project. This tool is equipped with carbide-tipped cutting edges, features anti-kickback design and heat treated shank and body for durability. Bottom bearing included.





Drawing is 1:1 scale

# Ogee Bit





# 859

Bottom bearing included.



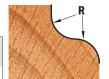








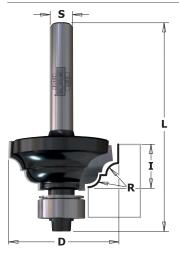
ORDER NO. S=Ø1/4" shank	8	inches	mm	I inches	R inches	L inches
95902	10	1 1/2	3Q 1	5/8	1//	2 1 / /



Drawing is 1:1 scale

# Classical Ogee Bit







841



These bits produce both a concave and a convex profile on your work piece for smooth eyecatching detail! They feature 2 sharp cutting edges, rust-resistant black coating and are equipped with a bottom bearing for easy template work on both natural wood and wood-based materials.

ORDER NO. S=Ø1/4" shank		inches	mm	l inches	R inches	L inches
84103	10	1-1/8	28.5	1/2	1/8	2-1/8



Drawing is 1:1 scale

# Classical Ogee Bit





844



Get an inverted ogee profile with the concave edge adjacent to the upper surface of your work-piece! Equipped with 2 sharp cutting edges and featuring rust-resistant black coating, this tool defines edges with a horizontal bead along the bottom of the cut. A smooth running bearing makes template work easy on both natural wood and wood-based materials.





Drawing is 1:1 scale

# Replacement Bearing Set





SET CONTAINS	PIECES
3/8" Bearing	1
1/2" Bearing	1
3/8" Dust Shields	1
1/2" Dust Shields	1
Hex Key	1
Screw	1











1/4" shank



80004	4-PIECE ROUNDOVER SE				
CET CONTAINS	D	l I			

	1 1 1 1 2 2 1	1001100	-/	1 Ollullit	
SET CONTAINS	inches	mm	l inches	R inches	L inches
83802	3/4	19.05	27/64	1/8	2-1/16
83804	1	25.4	17/32	1/4	2-1/8
83806	1-1/4	31.7	21/32	3/8	2-1/4
83807	1-1/2	38.1	3/4	1/2	2-3/8





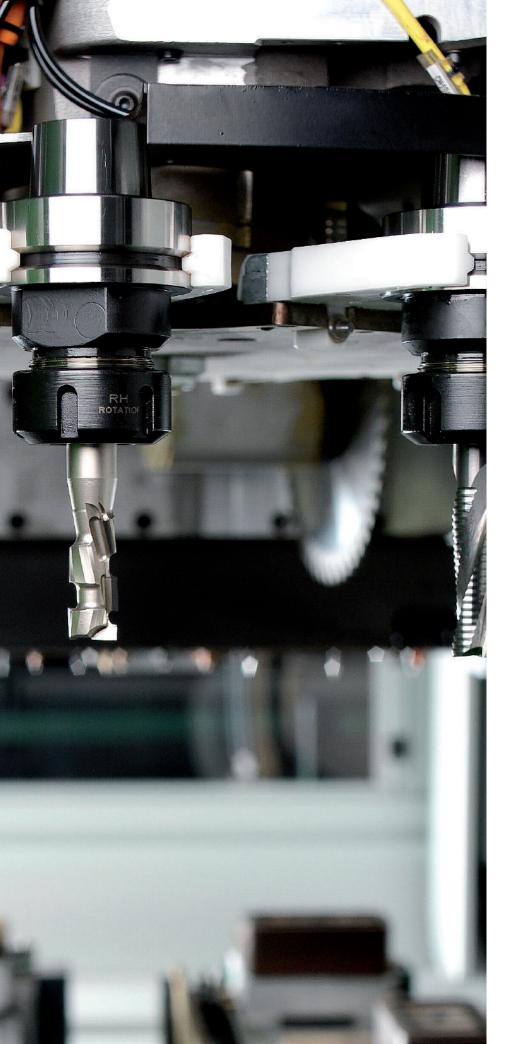
CMT CONTRACTOR



**80005** 5-PIECE STRAIGHT SET

1/4" shank
------------

			-,		
SET CONTAINS	inches	) mm	inches	L inches	Т
81103	1/8	3.2	5/16	2	1
81108	1/4	6.35	5/8	2	1
81115	3/8	9.52	1	2-3/16	2
81119	1/2	12.7	1	2-3/16	2
81131	3/4	19	1	2-3/16	2



# **CNC ROUTER BITS** & CHUCKS

PRODUCTS	PAGE
Kinetic Dust Extractor	260
CNC Chucks	261-262
Universal Assembly Support for Chucks	261
Precision Collets	263
HSK Chucks for Grooving Blades	264
Solid Carbide Spiral Bits	265~271
Diamond Compression Bits	272
CNC Cutters with Insert Carbide	272~274
Diamond Compression Bits	27





















# 92 Removes MDF & Chipboard dust from the workpiece



ORDER NO.	8	inches <b>D</b>	mm	DESCRIPTION
992.081.ER20	1	3-5/32	80	Kinetic Dust Extractor for chucks with ER20
992.081.ER25	1	3-5/32	80	Kinetic Dust Extractor for chucks with ER25
992.101.E0C25	1	3-15/16	100	Kinetic Dust Extractor for chucks with DIN6388/E0C25 collets
992.101.ER32	1	3-15/16	100	Kinetic Dust Extractor for chucks with ER32 collets
992.101.ER40	1	3-15/16	100	Kinetic Dust Extractor for chucks with ER40 collets

Spare parts: 991.285.00 C-Spanner 80-90mm for KINETIC ER20/ER25

991.284.00 C-Spanner 95-100mm (17112) for KINETIC ER32/ER40



-SAFETY TIPS:-

The **TW-200** Torque Wrench

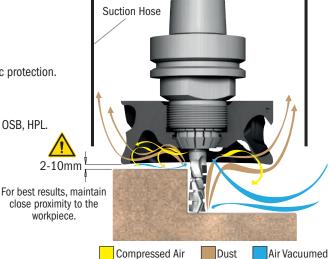
Always use vacuum system.

is recommended for the proper fastening of clamping nuts (see page 322).

# **EASY TO USE!**

## Installation and removal just like a clamping nut

- Better health & safety on the worksite
- Better air quality on the worksite
- Improves tool performance & cut quality
- Longer tool life & reduced labor costs
- Recommended for Nesting and routing operations
- No wasted time throughout operation
- Replaces the standard clamping nut
- Suitable for any collet chucks with standard router bits
- Available for ER32 ER40 EOC25 (DIN6388) collets
- Tough ceramic coating offers anti-corrosion, anti-friction and anti-static protection.
- Tool body in light alloy
- Lightweight and quiet
- Performs even at low RPM: from 6,000 up to 20,000 rpm
- Materials: chipboard, coated chipboard, MDF, CORIAN®, plasterboard, OSB, HPL.





**Download Instruction** 



Watch the video on



## Working WITHOUT Kinetic Dust Extractor



# **Working WITH Kinetic Dust Extractor**







# 183.300 TREME

<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation		S	TO BE USED WITH COLLET	NOTE
183.300.01	183.300.02	1	HSK-63F	ER32	Clamping nut without bearing
183.300.11*		1	HSK-63F	ER32	Clamping nut with bearing

**Optional:** 990.118.00 M6x10mm screw

\* Suitable for right-hand and left-hand rotation.

For HOMAG®, EIMA®, IMA® FROM 9/94, WEEKE®, BIESSE®, SCM®, MORBIDELLI® and MASTERWOOD® machines.

#### **NON-STICK ORANGE CHROME® SHIELD COATING**

- prevents overheating
- protects against corrosion and rust
- reduces resin build-up
- longer life and greater tool performance

#### SAFETY TIPS:

The **TW-200** Torque Wrench is recommended for the proper fastening of clamping nuts (see page 322)

# HSK-63F Chucks for "ER40" Precision Collets



# 183.310 TREME

<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation		S	TO BE USED WITH COLLET	NOTE
183.310.01	183.310.02	1	HSK-63F	ER40	Clamping nut without bearing
183.310.11*		1	HSK-63F	ER40	Clamping nut with bearing

Optional: 990.117.00 M6x6mm screw

\* Suitable for right-hand and left-hand rotation.

RH LH

For HOMAG®, EIMA®, IMA® FROM 9/94, WEEKE®, BIESSE®, SCM®, MORBIDELLI® and MASTERWOOD® machines.

#### **NON-STICK ORANGE CHROME® SHIELD COATING**

- prevents overheating
- protects against corrosion and rust
- reduces resin build-up
- longer life and greater tool performance

#### SAFETY TIPS:—

The **TW-200** Torque Wrench is recommended for the proper fastening of clamping nuts (see page 322)

# HSK-63F Chucks for "EOC25" Precision Collet "DIN6388"



# 183.320

<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation	8	S	TO BE USED WITH COLLET	NOTE
183.32	0.01*	1	HSK-63F	EOC25	Clamping nut with bearing
183.320.03		1	HSK-63F	EOC25	Clamping nut without bearing

Spare parts: 992.283.01 Clamping nut without bearing 992.283.11 Clamping nut with bearing

\* Suitable for left-hand rotation too.

For HOMAG®, EIMA®, IMA® FROM 9/94, WEEKE®, BIESSE®, SCM®, MORBIDELLI® and MASTERWOOD® machines.

#### **NON-STICK ORANGE CHROME® SHIELD COATING**

- prevents overheating
- protects against corrosion and rust
- reduces resin build-up
- longer life and greater tool performance

#### SAFETY TIPS: -



for the proper fastening of clamping nuts (see page 322)

# Universal Assembly Supports for Chucks



#### 183

ORDER NO.	8	<b>D</b> mm	SUITABLE FOR
183-HSK	1	63	HSK-63, BT40, ISO40 DIN 2080, SK40 DIN 69871, CAPTO® C6
183-ISO*	1	50	ISO30, DIN 2080, SK30 DIN 69871, HSK50, CAPTO® C5

\*Not compatible with chucks 183.250 and 183.251

CMT now offers new universal assembly supports for HSK-63F and ISO30 chucks. Thanks to the bi-directional roller bearings, which clamp the Left-hand rotation to the flange, the system offers the highest protection to the tool taper and clamps are no longer needed.

# ISO30 Chucks for "ER32" Precision Collets



RH



# 183,200

183.20	RH LH				
<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation	8	S	TO BE USED WITH COLLET	RETAINING STUD
183.200.01	183.200.02	1	IS030	ER32	Ø12-8

Spare parts: 992.183.01 RH Clamping Nut 992.183.02 LH Clamping Nut 991.183.00 C-Spanner "ER32"

For BIESSE® machines.

#### **SAFETY TIPS:**

The TW-200 Torque Wrench is recommended for the proper fastening of clamping nuts (see page 322)

# ISO30 Chucks for "ER40" Precision Collets



# 183.201

<b>ORDER NO.</b> Right-hand rotation	8	S	TO BE USED WITH COLLET	RETAINING STUD
183.201.01	1	IS030	ER40	Ø12-8

Spare parts: 992.383.01 RH Clamping Nut 991.184.00 C-Spanner "ER40"

For BIESSE® machines.

#### **SAFETY TIPS:**

The TW-200 Torque Wrench is recommended for the proper fastening of clamping nuts (see page 322)

# ISO30 Chucks for "ER32" Precision Collets



262

# 183.250

183.25	RH LH				
<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation		S	TO BE USED WITH COLLET	RETAINING STUD mm
183.250.01	183.250.02	1	IS030	ER32	Ø8.5

Spare parts: 992.183.01 RH Clamping Nut 992.183.02 LH Clamping Nut 991.183.00 C-Spanner "ER32"

For MORBIDELLI® and SCM® machines.

#### **SAFETY TIPS:**

The TW-200 Torque Wrench is recommended for the proper fastening of clamping nuts (see page 322)

# 184 TECHNICAL DETAILS:

Replaceable Standard Precision 0.015 collets. 0; -0.7mm wide clamping tolerance. Suitable for most conical chucks. Fit most tapered spindle noses.

Special dimensions available on request.



This tolerance is guaranteed only on the nominal diameter.



В

inches 1/4

5/16

3/8 1/2

5/8

3/4

20mm

<b>B</b> inches	ORDER NO.
1/4	184.064.20
5/16	184.080.20
3/8	184.100.20
1/2	184.127.20

10 PCS. IN MASTERPACK



<b>B</b> inches	ORDER NO.
1/4	184.064.25
5/16	184.080.25
3/8	184.100.25
1/2	184.127.25
5/8	184.160.25

10 PCS. IN MASTERPACK



For chucks: 183.000/100/200/250/300/400



41

For chucks: 183.201/211/221/310

46

<b>B</b> inches	ORDER NO.
1/4	184.064.00
5/16	184.082.00
3/8	184.096.00
1/2	184.128.00
5/8	184.162.00
3/4	184.192.00
20mm	184.202.00
25mm	184.252.00

10 PCS. IN MASTERPACK

# Precision Collets "DIN6388"

#### **TECHNICAL DETAILS:**

Replaceable Standard Precision 0.015 collets. 0; -0.7mm wide clamping tolerance. Suitable for most conical chucks. Fit most tapered spindle noses.

Special dimensions available on request.



<b>B</b> inches	ORDER NO.
1/4	185.064.00
5/16	185.080.00
3/8	185.095.00
1/2	185.127.00
5/8	185.160.00
3/4	185.191.00
20mm	185.200.00
25mm	185.250.00

10 PCS. IN MASTERPACK



**EOC16** 

<b>B</b> inches	ORDER NO.
5/16	185.080.16
5/8	185.160.16

10 PCS. IN MASTERPACK





# 183,420

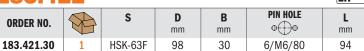
ORDER NO.	8	S	<b>D</b> mm	<b>B</b> mm	PIN HOLE	L mm
183.420.30	1	HSK-63F	59	30	4/M6/48	78



Grooving saw blades available on request.



The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).



Spare parts: 990.119.00 M6x12x16mm TSPEI screw 991.064.00 4mm allen key



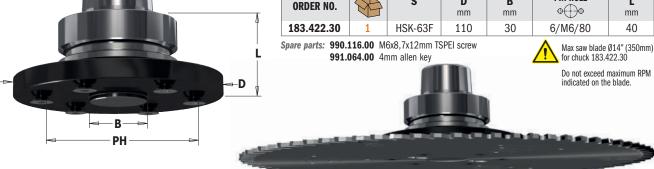


Grooving saw blades available on request.



The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).





**SAFETY TIPS:** The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).

Grooving saw blades available on request.

# THE ULTIMATE TECHNOLOGY FOR INDUSTRIAL CNC TOOLS

DLCS is a modified diamond-like carbon coating with superior load bearing capacity. This hard, durable metal-based finish (chromium nitride) provides an higher hardness surface and enhances the tribological properties of the carbon coating. Its application prevents excessive heat build up which is detrimental to performance. This means cutting tools remain fully effective after every use.

## **Extreme Coating Hardness** >HV 2.500

Offers impressive hardness on cutting edges as well as outstanding protection against wear and tear.

# **Minimal coating** thickness um 2-4

This micron thin finish guarantees perfectly sharpened edges for high cutting quality.

# **Provides the lowest** coefficient of friction 0,1-0,2

Very good running-in and low friction losses. Reduction of sticking. Ideal for high speeds in Nesting applications.

# **Optimal** resistance to heat build up

Reduced overheating. Cutting edges resist excessive wear up to 400°C.

# **BENEFITS**





**DLCS CHROME COATING** provides 3 times longer life than uncoated tools!

#### Test performed in U.S. with ½" solid carbide compression spiral bit

FELDER® Profit H10 Nested Base/Overhead CNC Router **Machine:** 

Working Parameters: RPM = 18,000 - Feed = 20 mts/minute

**Material:** 19mm Melamine Chipboard **Nesting Full Dimensioning Application:** 

**Performance:** DLCS coated bit cut 165 melamine panels

Uncoated bit cut 56 melamine panels



**FELDER® Profit H10** 



**DLCS** coated bit



**Melamine Chipboard** 



Cut quality after 165 panels



# **DLCS Chrome Coating Solid Carbide Upcut & Downcut Spiral Bits**



SOLID T2+2 RH

SOLID T2+2 RH

SOLID T2+2 RH



# 190.41 COMPRESSION UPCUT & DOWNCUT 2+2-EDGE

ORDER NO.	A		)	ı	I <sub>1</sub> Pos.	L	S
Right-hand rotation		inches	mm	inches	inches	inches	inches
190.504.41	10	3/8	9.52	1-1/8	9/32	3	3/8
190.505.41	10	1/2	12.7	1	15/32	3	1/2
190.506.41	10	1/2	12.7	1-1/8	15/32	3	1/2
190.507.41	10	1/2	12.7	1-3/8	15/32	3-1/2	1/2
190.508.41	10	1/2	12.7	1-5/8	15/32	4	1/2

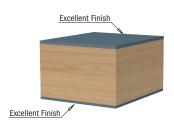
190.41	MORTISE C	OMPRESSION	CAKRINE	. J IVII	<b>DOWN</b>		
<b>ORDER NO.</b> Right-hand rotation	8	inches	) mm	<b>I</b> inches	Inches	L inches	<b>S</b> inches
190.813.41	10	3/8	9.52	1	13/64	3	3/8
190.815.41	10	1/2	12.7	1-1/8	1/4	3	1/2

# 190-41 MORTISF COMPRESSION LIPCUT & DOWNCUT 2+2-EDGE

190.41	MORTISE (	COMPRESSION	UPCUT & DOW	/NCUT 2+2-EDGE	SOLID CARBIDE T2	+2 <b>RH</b>	UP DOWN
<b>ORDER NO.</b> Right-hand rotation	8	inches	<b>D</b> mm	l inches	In Pos. inches	L inches	<b>S</b> inches
190.513.41	10	3/8	9.52	7/8	3/16	3	3/8
190.515.41	10	1/2	12.7	7/8	13/64	3	1/2
190.517.41	10	1/2	12.7	1-3/8	13/64	3-1/2	1/2

# Solid Carbide Upcut & Downcut Spiral Bits





# 190 COMPRESSION UPCUT & DOWNCUT 2+2-EDGE

ORDER NO. Right-hand rotation	8	inches	<b>D</b>	l inches	I <sub>1</sub> Pos. inches	L inches	S inches
190.008.11	10	1/4	6.35	7/8	9/32	2-1/2	1/4
190.504.11	10	3/8	9.52	1-1/8	9/32	3	3/8
190.505.11	10	1/2	12.7	1	15/32	3	1/2
190.506.11	10	1/2	12.7	1-1/8	15/32	3	1/2
190.507.11	10	1/2	12.7	1-3/8	15/32	3-1/2	1/2
190.508.11	10	1/2	12.7	1-5/8	15/32	4	1/2

# 190 MORTISE COMPRESSION UPCUT & DOWNCUT 3+3-EDGE CARBIDE T3+3 RH

ORDER NO. Right-hand rotation	8	inches	mm	l inches	In Pos.	L inches	<b>S</b> inches
190.813.11	10	3/8	9.52	1	13/64	3	3/8
190.815.11	10	1/2	12.7	1-1/8	1/4	3	1/2

# 190 MORTISE COMPRESSION UPCUT & DOWNCUT 2+2-EDGE CARBIDE 12+2 RH

ORDER NO.	5		)	ı	I <sub>1</sub> Pos.	L	S
Right-hand rotation		inches	mm	inches	inches	inches	inches
190.513.11	10	3/8	9.52	7/8	3/16	3	3/8
190.515.11	10	1/2	12.7	7/8	13/64	3	1/2
190.517.11	10	1/2	12.7	1-3/8	13/64	3-1/2	1/2

#### **TECHNICAL DETAILS:**

- Premium quality super-micrograin carbide
- 2+2 spiral cutting edges [T2+2].
- 3+3 spiral cutting edges [T3+3]. - Provides excellent finish on both top and bottom sides of the workpiece.

#### **APPLICATION:**

for an excellent edge finish on the top and bottom sides of laminates and double sided melamine. Can also be used with hardwoods and other wood and plastic composites. For fast feed rates on CNC routers, machining centers and point to point machines for ripping, panel sizing, template routing and other routing applications.

# Solid Carbide Upcut 2D/3D Carving Tapered Ball Nose Spiral Bits





## **152**

<b>152</b>						SOLID Arbide <b>72</b>	<b>T3</b>	RH	UP UP
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	R inches	A	l inches	<b>L</b> inches	<b>S</b> inches	T
152.064.082	10	1/32	0.8	1/64	6.2°	1	3	1/4	3
152.064.162	10	1/16	1.6	1/32	5.4°	1	3	1/4	3
152.064.322	10	1/8	3.2	1/16	3.6°	1	3	1/4	3
152.127.635	10	1/4	6.4	1/8	3°	2	4	1/2	2

#### **TECHNICAL DETAILS:**

- Premium quality HWM.
- Upcut spiral cutting edges [T2/T3].
- Excellent finish on the lower side of the work piece.
- Upward chip ejection.

APPLICATION: specially designed for 2D and 3D CNC profiling and carving in plastic, aluminum & wood for several uses like:

- A perfect bit for 3D carving
- Precision 2D and 3D large scale carving
- Great for deep profiling
- Dimensional signage
- 3D millwork
- 2D and 3D contouring, profiling, modeling and pattern making for cabinetry, sign making, furniture making and jewelry mold making
- Perfect for model-makers on large 3D milling profiles in abrasive EPS foam and other materials.
- Ideal on aluminum, plastic and wood-based materials.

#### **EXCELLENT FOR CUTTING**

- · Acrylonitrile-Butadiene-Styrene (ABS)
- Acrylic
- Acrylic Stone
   Aluminum
- Brass
- Bronze
- Composite
- Copper
- Ethylene-vinyl Acetate Foam (EVA)
- Expanded Polypropylene (EPP)
- Expanded Polystyrene Foam (EPS)
- Extruded Polystyrene Foam (XPS)
- Fiberglass
- Fiberglass PCB Board Foam Board
- Graphite
- HDPE

- HDU
- 20lbs High Density UrethaneMDF/HDF
- Phenolics
- Phenolic Composites
- Plastics
- Poly (methyl methacrylate) (PMMA)
- Polyethylene Foam
- Polyurethane Foam
- PVĆ
- PVC Foam Board
- Sign Board
- Sign Foam • Titanium
- Tooling Board
- Wood
- XPE (Cross Linked Polyethylene) Foam

#### ALSO EXCELLENT FOR

- CORIAN®
- COROPLAST®
- DIBOND®
- ETHAFOAM® • LEXAN®
- PAI FOAM® • POLYLAM®

# TIPS FOR MILLING PLASTICS

- · pay attention to heat input
- · pay attention to chip-loads when using small diameters
- · use air-blast to keep chip away and cooling the tool

# Solid Carbide Spiral Bits



# 198 IIDCIIT 1-FDGE

<b>198</b> UPCUT 1	198 UPCUT 1-EDGE SOUD CARBIDE T1 RH										
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	inches	<b>L</b> inches	<b>S</b> inches					
198.001.11	10	1/8	3.18	1/2	2	1/4					
198.005.11	10	3/16	4.76	5/8	2	1/4					
198.007.11	10	1/4	6.35	3/4	2	1/4					
198.008.11	10	1/4	6.35	1	2-1/2	1/4					
198.504.11	10	3/8	9.52	1-1/8	3	3/8					

#### **TECHNICAL DETAILS:**

- Premium quality HWM.
- 1 spiral cutting edge [T1]
- Provide an excellent finish on the lower side of the workpiece.
- Upward chip ejection.

APPLICATION: used for efficient contour cutting, end-trimming and panel sizing on solid wood, wood composites, plastic materials and laminates at high feed speed. Ensure to properly clamp workpieces. Can be used on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.





ORDER NO. Right-hand rotation	8	inches	mm	<b>I</b> inches	<b>L</b> inches	<b>S</b> inches
191.001.11	10	1/8	3.18	1/2	2	1/4
191.003.11	10	5/32	3.97	1/2	2	1/4
191.005.11	10	3/16	4.76	3/4	2	1/4
191.007.11	10	1/4	6.35	3/4	2	1/4
191.008.11	10	1/4	6.35	1	2-1/2	1/4
191.501.11	10	5/16	7.94	1	3	1/2
191.503.11	10	3/8	9.52	1-1/4	3-1/4	1/2
191.505.11	10	1/2	12.7	1-1/4	3	1/2
191.506.11	10	1/2	12.7	1-1/2	3-1/2	1/2
191.507.11	10	1/2	12.7	2	4	1/2

#### **TECHNICAL DETAILS:**

- Premium quality HWM.
- 2 spiral cutting edges [T2].
- Provide an excellent finish on the lower side of the workpiece.
- Upward chip ejection.

**APPLICATION:** used for efficient contour cutting, end-trimming and panel sizing on solid wood, wood composites, plastic materials and laminates at high feed speed. Ensure to properly clamp workpieces.

Can be used on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.

SOLID T2 RH

# Solid Carbide Downcut Spiral Bits



# **192**

132				CHIDID		
ORDER NO. Right-hand rotation	8	inches	mm	I inches	L inches	S inches
192.001.11	10	1/8	3.18	1/2	2	1/4
192.003.11	10	5/32	3.97	1/2	2	1/4
192.005.11	10	3/16	4.76	3/4	2	1/4
192.007.11	10	1/4	6.35	3/4	2	1/4
192.008.11	10	1/4	6.35	1	2-1/2	1/4
192.501.11	10	5/16	7.94	1	3	1/2
192.503.11	10	3/8	9.52	1-1/4	3-1/4	1/2
192.505.11	10	1/2	12.7	1-1/4	3	1/2
192.506.11	10	1/2	12.7	1-1/2	3-1/2	1/2
192.507.11	10	1/2	12.7	2	4	1/2
10 PCS. IN MASTER	PACK					
192.008.11-X10		1/4	6.35	1	2-1/2	1/4
192.501.11-X10		5/16	7.94	1	3	1/2
192.505.11-X10		1/2	12.7	1-1/4	3	1/2

#### **TECHNICAL DETAILS:**

- Premium quality HWM.
- 2 spiral edges [T2].
- Provide an excellent finish on the upper side of the workpiece.
- Downward chip ejection.

**APPLICATION:** used for efficient contour cutting, end-trimming and panel sizing on solid wood, wood composites, plastic materials and laminates at high feed speed. Ensure to properly clamp workpieces.

Can be used on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.





L92.41 DLCS Chrome Coating Long Life





SEE PAGE 270

# Solid Carbide Upcut Spiral Bits with Chip-Breaker





# 195

195				SOLID CARBID	T3R RH	UP UP
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	l inches	L inches	<b>S</b> inches
195.506.11	10	1/2	12.7	1-1/2	3-1/2	1/2

#### **TECHNICAL DETAILS:**

- Premium quality S.T.C.
- 3 spiral cutting edges [T3R].
- Chip breaker teeth.
- Max 0.3mm tooth depth.
- Provide an excellent finish on the lower side of the workpiece.
- Upward chip ejection.

APPLICATION: used for efficient contour cutting, end-trimming and panel sizing on solid wood, wood composites, plastic materials and lam-inates at high feed speed. Ensure to properly clamp workpieces.

Can be used on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.

# Solid Carbide Downcut Spiral Bits with Chip-Breaker



196				CARBID			
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	I inches	L inches	<b>S</b> inches	
196.506.11	10	1/2	12.7	1-1/2	3-1/2	1/2	

#### **TECHNICAL DETAILS:**

- Premium quality S.T.C.
- 3 spiral cutting edges [T3R].
- Chip breaker teeth.Max 0.3mm tooth depth.
- Provide excellent finish on the upper side of the workpiece.
- Downward chip ejection.

APPLICATION: used for efficient contour cutting, end-trimming and panel sizing on solid wood, wood composites, plastic materials and laminates at high feed speed. Ensure to properly clamp workpieces.

SOLID T2D DU DOWN

Can be used on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.

# Straight Bits for Industrial Nesting Application DLCS Chrome Coating





# 

	RMANCE				SOLID T3	RH LONG
ORDER NO. Right-hand rotation	8	inches	mm	l inches	L inches	<b>S</b> inches
812.564.11	10	1/4	6.35	1	2-7/8	1/2
812.581.11	10	5/16	8	1-1/8	3	1/2

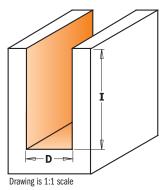
#### **TECHNICAL DETAILS:**

- Premium quality HWM.
- Special positively ground cutting edge sharpening for excellent finish.



#### **DLCS CHROME COATING:**

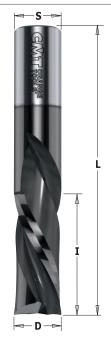
- Superb wear resistance
- Better chip clearance
- Superior cutting quality
- Less overheating
- More productivity





# **DLCS CHROME COATING** provides 3 times longer life than uncoated tools!

# Solid Carbide Downcut Spiral Bits DLCS Chrome Coating







L92.41	TARE DERFORM	ME- IANCE	CARBIDE T2 RH DOWN LONG				
<b>ORDER NO.</b> Right-hand rotation	8	inches	<b>D</b>	l inches	L inches	<b>S</b> inches	
192.007.41	10	1/4	6.35	3/4	2	1/4	
192.008.41	10	1/4	6.35	1	2-1/2	1/4	
192.503.41	10	3/8	9.52	1-1/4	3-1/4	1/2	
192.505.41	10	1/2	12.7	1-1/4	3	1/2	
192.506.41	10	1/2	12.7	1-1/2	3-1/2	1/2	
192.507.41	10	1/2	12.7	2	4	1/2	



#### **DLCS CHROME COATING:**

- Superb wear resistance
- Better chip clearance
- Superior cutting quality
- Less overheating
- More productivity



# **DLCS CHROME COATING** provides 3 times longer life than uncoated tools!

# Solid Surface and Fiberglass Bit with **DLCS Chrome Coating**





# 151 TREME

PERFOR	WAIVOL				GIRLDID'E	
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	l inches	L inches	<b>S</b> inches
151.064.25E	10	1/4	6.35	1	2-1/2	1/4
151.127.38E	10	1/2	12.7	1-1/2	3-1/2	1/2

#### **TECHNICAL DETAILS:**

- Premium quality S.T.C.
- Special positively ground cutting edge sharpening for excellent finish

APPLICATION: used for efficient contour cutting, endtrimming and panel sizing on glass fiber and fiberglass, phenolic and composite material. For use on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.



#### **DLCS CHROME COATING:**

- Superb wear resistance
- Better chip clearance
- Superior cutting quality
- Less overheating
- More productivity





# **DLCS CHROME COATING** provides 3 times longer life than uncoated tools!

# Solid Surface and Fiberglass Bit with **DLCS Chrome Coating**



Sharpening 135°

PERFORMANCE

ORDER NO.	8	D	)	. 1	L	S
Right-hand rotation		inches	mm	inches	inches	inches
151.064.25D	10	1/4	6.35	1	2-1/2	1/4
151.127.38D	10	1/2	12.7	1-1/2	3-1/2	1/2

#### **TECHNICAL DETAILS:**

- Premium quality S.T.C.
- Special positively ground cutting edge sharpening for excellent finish

APPLICATION: used for efficient contour cutting, end-trimming and panel sizing on fiberglass, glass fiber phenolic and composite material. The 135° tooth geometry allows vertical feeding minimizing the bending of the workpiece. To be used on machining centres, point-to-point boring machines, CNC routers and hand-held routers equipped with chucks or adapters.

SOLID RH LONG



#### **DLCS CHROME COATING:**

- Superb wear resistance
- Better chip clearance
- Superior cutting quality
- Less overheating
- More productivity





provides 3 times longer life than uncoated tools!





140					PCD	T1+1	RH LONGER LIFE THAN CARBIDE
<b>ORDER NO.</b> Right-hand rotation	8	inches	mm	I inches	L inches	<b>S</b> inches	T
140.127.61	1	1/2	12.7	1-1/16	2-61/64	1/2	1+1 (3DP+1TCT)
140.128.61	1	1/2	12.7	1-3/8	3-11/32	1/2	1+1 (4DP+1TCT)
140.158.61	1	5/8	15.88	1-1/16	3-11/32	5/8	1+1 (3DP+1TCT)
140.159.61	1	5/8	15.88	1-49/64	4-1/16	5/8	1+1 (5DP+1TCT)
140.190.61	1	3/4	19.05	1-1/16	3-11/32	3/4	1+1 (3DP+1TCT)
140.192.61	1	3/4	19.05	1-49/64	4-1/8	3/4	1+1 (5DP+1TCT)

#### **TECHNICAL DETAILS:**

- Super strength steel.
- Shear angle.
- DP cutting edge (H2,5).
- HW plunging tip for diagonal plunge-cutting.
- Resharpeable (max 3 times).
- Max feed speed 5 m/min.

APPLICATION: for contour cutting and panel sizing on hard and abrasive materials such as laminates, MDF and melamine. For use on machining centers, point to point boring machines and CNC pantographs equipped with adaptors and chucks.

# Spoilboard Surfacing Router Cutters with Insert Knives



ORDER NO.

Right-hand rotation 663.005.11

663.015.11

663.004.11

663.014.11

663.003.11

663.006.11

INSER Carbi			<b>T</b> 4	R	H
<b>D</b> inches	mm	l mm	L mm	T	S mm
1-1/2	38	12	60	3	12x35
1-1/2	38	12	60	3	12.7x35
2-3/8	60	12	80	3	12x50
2-3/8	60	12	80	3	12.7x50
3-5/32	80	12	90	3	20x50

• 790.120.03\* 990.075.00 790.120.03\* 990.075.00 790.120.03\* 990.075.00 790.120.03\* 990.075.00 790.120.03\* 990.075.00 790.120.03\* 990.075.00

\*Minimum 10 pieces

**Spare parts: 991.061.00** T15 TORX® key

10

10

10

10

10

990.036.00 M8x25mm TE screw (for 663.003.11 and 663.006.11)

990.020.00 Hex nut for threaded arbors M8 (for 663.003.11 and 663.006.11)

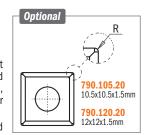
#### **TECHNICAL DETAILS:**

- Super strength steel.
- 3 cutting edges [T3].
- 4 cutting edges [T4].

APPLICATION: the new router bit for CNC routers is ideal for fast removal of material over a large surface area leaving an improved finish at the bottom of the cut. Used on soft and hardwood, particle board and MDF. The cutter uses 4-sided inserts in super micrograin carbide.

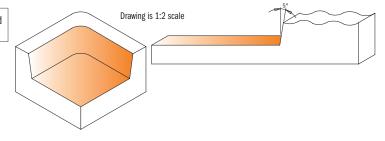
3-15/16 100

A cost effective solution compared to brazed router bits and solid carbide spiral bits.





The TW-006 Torque Screwdriver is recommended for the proper fastening of screws (see page 323).







110					IIIIED		
ORDER NO. Right-hand rotation	8	inches	mm	I inches	L inches	Т	<b>S</b> inches
178.701.11	1	1	25.4	1/4	1-5/8	3	1/4
178.704.11	1	2	50.8	1/2	2-1/2	4	1/2

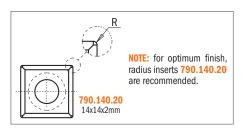
#### **TECHNICAL DETAILS:**

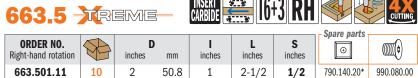
- Super-strength steel.
- 3 cutting edge [T3]
- 4 cutting edge [T4]

**APPLICATION:** the new router bit for CNC routers is ideal for fast removal of material over a large surface area leaving an improved finish at the bottom of the cut. Used on soft and hardwood, particle board and MDF. The cutter uses 4-sided inserts in super micrograin carbide. A cost effective solution compared to brazed router bits and solid carbide spiral bits.

# **XTreme** Spoilboard Surfacing Router Cutter with Insert Knives







#### **TECHNICAL DETAILS:**

- Super strength steel
- 6 + 3 cutting edges [T6+V3]

**APPLICATION:** this new router bit designed for CNC router machines and stationary router machine work centers are ideal for rabbeting joints and for quick chip removal on large surface areas and leaves a good finish at the bottom of the cut. Ideal for soft and hard wood, particle board and MDF. This bit is equipped with 4 sided insert knives in super micrograin carbide – an economical solution for brazed and solid carbide spiral bits.

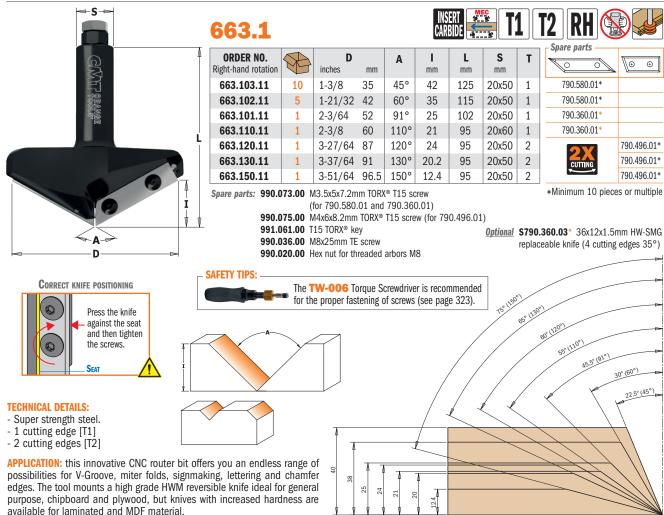


273

\*Minimum 10 pieces or multiple

# V-Groove - Folding - Signmaking CNC Router Cutters with Insert Knives





# Universal Profile Cutter for CNC Machines



663.301	L		SP 💒	<b>T2</b>	RH	
<b>ORDER NO.</b> Right-hand rotation	8	inches <b>D</b>	mm	l mm	<b>L</b> mm	S mm
663.301.11	1	2-9/16	65	40-50	93	20

Spare parts: 692.999.01 38x15x16mm wedge for cutter

990.064.00 M8x16mm STEI screw 991.064.00 Hex key 4mm

#### **TECHNICAL DETAILS:**

- Super Strength steel.
- 2 cutting edges [T2] for knives 40x4mm and 50x4mm.

APPLICATION: for universal profiling of solid wood on CNC router machines. For cutting width 40mm and 50mm (serie 690). Profile knives may only be ordered and used in pairs.

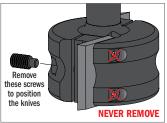
For router machines with mechanical feed.

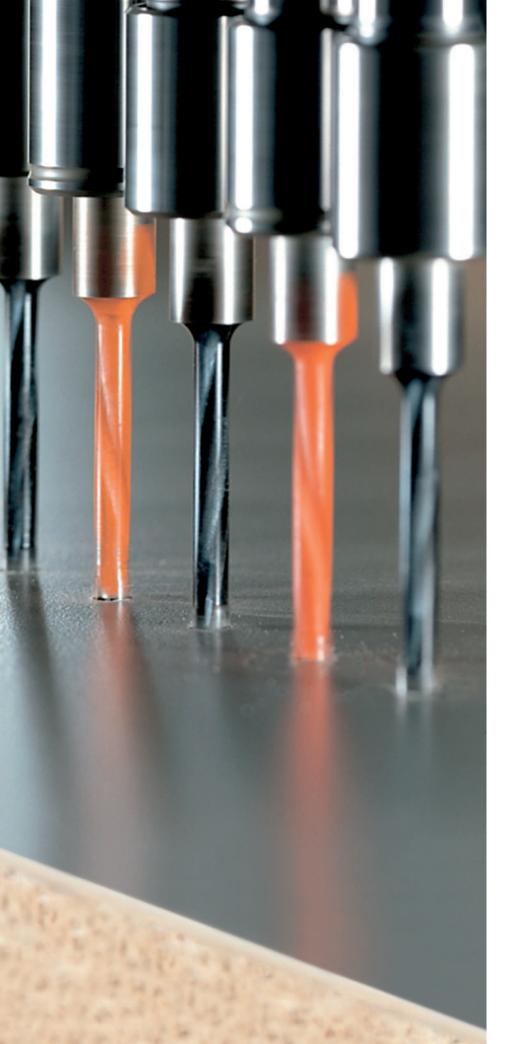
USEFUL TIPS: for enhanced safety, when using 50mm knives, it is recommended to carry out the cut in several passes.

### TO BE USED WITH SP KNIVES SERIES 690 (SEE PAGE 345~357)









# **DOWEL DRILLS & BORING BITS**

PRODUCTS	PAGE
	6-277
Solid Carbide Dowel Drills for Through Holes	278
Dowel Drills for Through Holes	278
Solid Carbide Dowel Drills	279
Dowel Drills	280
2 Flute Dowel Drills 28:	<b>L-282</b>
Dowel Drills with Countersinks	282
4 Flute Dowel Drills 283	~285
Solid Carbide Twist Drills	286
Adapters & Bushings for Twist Drills	286
2 Flute Dowel Drills for Through Holes	287
Hinge Boring Bits	288

















# Maximizing Boring Performance



LINE	XTREME	XTREME	INDUSTRIAL
PERFORMANCE	SUPERIOR ★★★★	EXCELLENT ★★★★	VERY GOOD ★★★
BIT	- ANNE	GWIT OF THE PROPERTY OF THE PR	GMT (
DESCRIPTION	Designed for heavy duty drilling in Large-Scale Industrial Manufacturing ensuring high impact resistance and greater durability.	Designed for heavy-duty to medium-duty drilling in large- scale to medium-scale industrial manufacturing ensuring high impact resistance and greater durability.	Designed for medium-duty to light-duty drilling in medium- scale to small-scale industrial manufacturing ensuring rigorous impact resistance and good durability.
USER	LARGE-SCALE INDUSTRIAL MANUFACTURING	LARGE-SCALE TO MEDIUM-SCALE INDUSTRIAL MANUFACTURING	MEDIUM-SCALE TO SMALL-SCALE INDUSTRIAL MANUFACTURING
RECOMMENDED USE	INDUSTRIAL PRODUCTION	INDUSTRIAL/REMODELER	REMODELER
MATERIALS	Ideal for chipboard, MDF, HDF and laminates.	Excellent for both hard and soft wood. Great for chipboard, MDF, HDF and laminates.	Excellent for both hard and soft wood. Good for chipboard, MDF, and laminates.
SHARPENING & MAINTENANCE	Specially designed reinforced spurs allow for impeccable finishing during operations involving high-speed cutting feed.	Specially designed reinforced spurs allow for impeccable finishing during operations involving high-speed cutting feed.	Standard design with negatively ground spurs providing good quality finishing without chipping.
	XTREME SHARPENING	XTREME SHARPENING	NEGATIVELY GROUND SPURS
CARBIDE	INDUSTRIAL CHROMIUM MICROGRAIN CARBIDE	INDUSTRIAL SINTERHIP HI-DENSITY CARBIDE	INDUSTRIAL GRADE CARBIDE
	The special chromium enhanced carbide produces clean bores with no rough edges and maintains a balanced center point. In addition to its safety features, Chromium Micrograin Carbide guarantees exceptional resistance to fatigue and abrasion and allows for an infinite number of resharpenings.	The unique tip is made of high quality carbide enhanced via Sinterhip (hot isostatic pressing). This process guarantees long lasting performance and exceptionally clean bores.	Fine and medium grain carbide grade guarantee reliable prolonged use.
COATING	SOLID TUNGSTEN CARBIDE	CMT P.F.F.E. COATING provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements.	CMT PT.F.E. COATING provides a non-stick surface preventing resin, glue or sludge residue accumulation on the bit body. Baked at 420°, this unique industrial material is specifically designed to fit woodworking tool requirements.
PRICE RANGE	HIGH	MEDIUM/HIGH	MEDIUM

# Adapters

276



360.001	L			R	RH LH
<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation	8	B mm	<b>d</b> mm	<b>D</b> mm
360.001.01	360.001.02	10	10	20	15

## FOR USE ON THE FOLLOWING MACHINES:

BIESSE® machines with quick drill change chuck.







# 360.101

LHRH
_

ORDER NO. Right-hand & Left-hand rotation	8	<b>B</b> mm	d mm	<b>D</b> mm
360.101.00	10	10	17.5	18

FOR USE ON THE FOLLOWING MACHINES:  $VITAP^{\otimes}$ .

Spare parts —	
ATTITIA	
((((( <del>(</del> ((((((((((((((((((((((((((((((	
990.015.00	991.062.00



# 360.201



ORDER NO. Right-hand & Left-hand rotation	8	<b>B</b> mm	<b>d</b> mm	<b>D</b> mm
360.201.00	10	10	19.5	20

FOR USE ON THE FOLLOWING MACHINES: MORBIDELLI®.





# 360.301



ORDER NO. Right-hand & Left-hand rotation		<b>B</b> mm	<b>d</b> mm	<b>D</b> mm
360.301.00	10	10	19.5	20

FOR USE ON THE FOLLOWING MACHINES: MASTERWOOD®, MAGGI®, FELDER®, GRIGGIO®.

Spare parts	
990.015.00	991.062.00

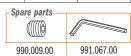


360.401



ORDER NO. Right-hand & Left-hand rotation	8	<b>B</b> mm	<b>d</b> mm	<b>D</b> mm
360.401.00	10	10	20	17

FOR USE ON THE FOLLOWING MACHINES: WEEKE  $^{\circ}$  .





# 990,088



<b>ORDER NO.</b> Right-hand & Left-hand rotation	8	DESCRIPTION
990.088.00	10	Retaining screw for WEEKE® machines

# Solid Carbide Dowel Drills for Through Holes



SOLID LONG TO DUILU





CARBIDE LIE 12 KM LM								
mm	l mm	L mm	S mm					
3*	27	70	10x30					
4	35	70	10x25					

Right-hand rotation	Left-hand rotation		inches	mm	mm	mm	mm
314.030.21	314.030.22	50		3*	27	70	10x30
314.040.21	314.040.22	50	5/32	4	35	70	10x25
314.050.21	314.050.22	50		5	35	70	10x25
314.060.21	314.060.22	50		6	35	70	10x25
314.070.21	314.070.22	50		7	35	70	10x25
314.080.21	314.080.22	50	5/16	7.94	35	70	10x26

<sup>\* &</sup>quot;V" point 60° sharpening

#### For panels with maximum 20-30mm in thickness

#### Spare parts 990.088.00 990.008.00

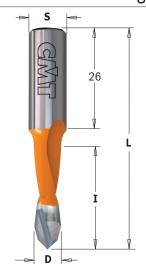
#### **TECHNICAL DETAILS:**

ORDER NO.

- Premium quality super-strength steel shank.
- High quality S.T.C. body.
- 2 precision ground cutting edges [T2].
- double angle.
- 2 spiral flutes.
- Parallel shank with driving flat and adjustable screw length.

APPLICATION: for drilling through holes in solid wood, wood derivatives and laminates. For use on boring machine centres equipped with adaptors and/or chucks.

# Dowel Drills for Through Holes





<b>313.41</b> <sub>/</sub>	/42 TREME
----------------------------	-----------

313.41/	/42 <b>T</b>		CARBIDE LON	G T2 F	RH] LH		
<b>ORDER NO.</b> Right-hand rotation	<b>ORDER NO.</b> Left-hand rotation	8	inches <b>D</b>	mm	l mm	<b>L</b> mm	S mm
313.050.41	313.050.42	50		5	27	57.5	10x26
313.080.41	313.080.42	50	5/16	7.94	27	57.5	10x26

For panels 20mm maximum in thickness

# 314.41/42 TREME

ORDER NO.	ORDER NO.	A	D		I	L	S
Right-hand rotation	Left-hand rotation		inches	mm	mm	mm	mm
314.050.41	314.050.42	50		5	35	70	10x26
314.080.41	314.080.42	50	5/16	7.94	35	70	10x26

#### For panels 30mm maximum in thickness

## TECHNICAL DETAILS:

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
- Extra-fine micrograin carbide spiral portion with centre point.
- T.C.T. head with precision balanced centre point.
- 2 precision ground cutting edges [T2].
- Double angle.
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

APPLICATION: for drilling through holes in solid wood, wood derivates and laminates. For use on boring machines equipped with adaptors and/or chucks.

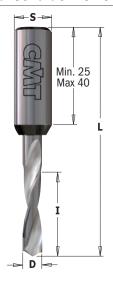
Spare parts

990.003.00

Optional -

990.088.00





# 310.21/22 TREME

SOLID LONG CARBIDE	- I	<b>V2</b>	RH	LH
--------------------	-----	-----------	----	----

ORDER NO.	ORDER NO.	5	D		I	L	S
Right-hand rotation	Left-hand rotation		inches	mm	mm	mm	mm
310.020.21	310.020.22	50		2	12	57.5	10x27
310.030.21	310.030.22	50		3	18	57.5	10x25
310.040.21	310.040.22	50		4	20	57.5	10x27
310.050.21	310.050.22	50		5	22	57.5	10x27
310.060.21	310.060.22	50		6	22	57.5	10x27
310.064.21	310.064.22	50	1/4	6.35	22	57.5	10x27
310.080.21	310.080.22	50	5/16	7.94	22	57.5	10x27

Spare parts	— Optional —
990.003.00	990.088.00









ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	8	<b>D</b> inches	mm	l mm	L mm	S
0	13.20*	50	moneo	1.3	5	70	10x45
311.020.21	311.020.22	50		2	12	70	10x40
311.030.21	311.030.22	50		3	18	70	10x42
311.040.21	311.040.22	50		4	30	70	10x28
311.050.21	311.050.22	50		5	30	70	10x30
311.060.21	311.060.22	50		6	30	70	10x27
311.064.21	311.064.22	50	1/4	6.35	30	70	10x30
311.080.21	311.080.22	50	5/16	7.94	35	70	10x25

<sup>\*</sup> Boring bit for panel preboring. Suitable for both right-hand and left-hand rotation.

#### Spare parts Optional-990.003.00 990.088.00

#### **TECHNICAL DETAILS:**

- Premium quality super-strength steel shank.
- High quality S.T.C. body.
- Centre point.
- 2 cutting edges [T2].
- 2 spiral flutes.
- 2 curved, negatively ground spurs [V2].
- Parallel shank with driving flat and adjustable screw length.

APPLICATION: for drilling blind holes in solid wood, wood derivatives and laminates. For use on boring machines equipped with adaptors and/or with chucks



# Perfect for all materials and long-lasting performance!

CMT announces the new series of solid carbide boring bits, now available from their extensive industrial line. These bits are entirely made of premium quality super micrograin carbide from CERATIZIT® in Luxemburg.

The entire series offers several design features:

- the unique tip has curved, negatively ground spurs to produce exceptionally clear bores with no rough-edges.
- Centre point balanced;
- the cylindrical head is bigger than traditional tips and is extremely resistant to prolonged use.

It lasts longer between sharpenings;

- the plunge edge runs all the way to the centre of the bit to reduce drilling resistance and increase production speed;
- the solid carbide construction guarantees an almost infinite number of resharpenings, and since it is a solid unit of carbide, it offers extra safety features;
- ideal for hardwood and difficult composites such as particle boards, MDF and veneered wood.
- excellent performance on high-speed boring units and CNC routers.

# **Dowel Drills**



Optional -

990.088.00

Spare parts

(||||||| 990.003.00





# 310.41/42 TREME

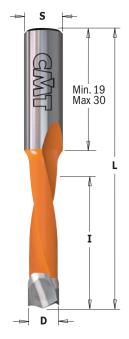
CARBIDE LON	3 I / I	<b>V2</b>	RH	LH
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ORDER NO.	ORDER NO.	A	D		I	L	S
Right-hand rotation	Left-hand rotation		inches	mm	mm	mm	mm
310.050.41	310.050.42	50		5	27	57.5	10x27
310.060.41	310.060.42	50		6	27	57.5	10x27
310.070.41	310.070.42	50		7	27	57.5	10x27
310.080.41	310.080.42	50	5/16	7.94	27	57.5	10x27
310.090.41	310.090.42	50		9	27	57.5	10x27
310.100.41	310.100.42	50		10	27	57.5	10x27

#### **TECHNICAL DETAILS:**

- Premium quality super-strength steel.Orange or black P.T.F.E. coating.
- High quality extra-fine micrograin carbide body.
- 2 cutting edges [T2].
- Double angle.
- 2 spiral flutes.
- 2 curved, negatively ground spurs [V2]
- Parallel shank with driving flat and adjustable screw length.

APPLICATION: for drilling blind holes in solid wood, wood derivates and laminates. For use on boring machines equipped with adaptors and/or chucks.





# 311.41/42 TREME

CARBIDE LO	NG EE T2	<b>V2</b>	RH	LH
------------	-------------	-----------	----	----

Spare parts

990.003.00

**Optional** 

990.088.00

ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	8	inches	mm	l mm	L mm	S mm
311.050.41	311.050.42	50		5	35	70	10x30
311.060.41	311.060.42	50		6	35	70	10x30
311.070.41	311.070.42	50		7	35	70	10x30
311.080.41	311.080.42	50	5/16	7.94	35	70	10x30
311.580.41	311.580.42	50	5/16	7.94	45	70	10x19
311.090.41	311.090.42	50		9	35	70	10x30
311.100.41	311.100.42	50		10	35	70	10x30
311.120.41	311.120.42	50		12	35	70	10x30

#### **TECHNICAL DETAILS:**

- Premium quality super-strength steel.
- High quality extra-fine micrograin carbide body.
  Orange or black P.T.F.E. coating.

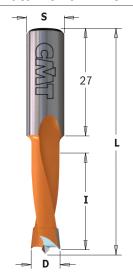
- 2 cutting edges [T2]. 2 curved, negatively ground spurs [V2].
- 2 spiral flutes.
- Parallel shank with driving flat and adjustable screw length.

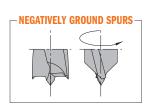
APPLICATION: for drilling blind holes in solid wood, wood derivatives, plastics and laminates. For use on boring machines equipped with adaptors and/or chucks.

\* Drill bits designed to fit HÄFELE® one-piece Ixconnect SC 8/60 spreading connector.



CARBIDE T2 V2 RH LH

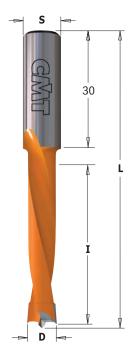


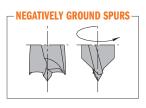


# 310

310.040.11         310.040.12         50         5/32         4         27         57.5         10x27           310.045.11         310.045.12         50         4.5         27         57.5         10x27           310.047.11         310.047.12         50         3/16         4.76         27         57.5         10x27           310.050.11         310.050.12         50         5         27         57.5         10x27           310.060.11         310.060.12         50         6         27         57.5         10x27           310.064.11         310.064.12         50         1/4         6.35         27         57.5         10x27           310.065.11         310.065.12         50         6.5         27         57.5         10x27           310.080.11         310.080.12         50         7         27         57.5         10x27           310.082.11         310.082.12         50         5/16         7.94         27         57.5         10x27           310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         3/8         9.52	ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	务	inches	<b>D</b>	l mm	L mm	S mm
310.047.11         310.047.12         50         3/16         4.76         27         57.5         10x27           310.050.11         310.050.12         50         5         27         57.5         10x27           310.060.11         310.060.12         50         6         27         57.5         10x27           310.064.11         310.064.12         50         1/4         6.35         27         57.5         10x27           310.070.11         310.065.12         50         6.5         27         57.5         10x27           310.080.11         310.080.12         50         5/16         7.94         27         57.5         10x27           310.082.11         310.082.12         50         8.2         27         57.5         10x27           310.090.11         310.090.12         50         9         27         57.5         10x27           310.100.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.110.11         310.100.12         50         10         27         57.5         10x27           310.120.11         310.120.12         10         11         27         57.5	_	310.040.12	50	5/32	4	27	57.5	10x27
310.050.11         310.050.12         50         5         27         57.5         10x27           310.060.11         310.060.12         50         6         27         57.5         10x27           310.064.11         310.064.12         50         1/4         6.35         27         57.5         10x27           310.070.11         310.065.12         50         6.5         27         57.5         10x27           310.080.11         310.080.12         50         5/16         7.94         27         57.5         10x27           310.082.11         310.082.12         50         8.2         27         57.5         10x27           310.090.11         310.090.12         50         9         27         57.5         10x27           310.109.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.120.11         310.120.12         10         11         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5	310.045.11		50	,	4.5	27	57.5	10x27
310.060.11         310.060.12         50         6         27         57.5         10x27           310.064.11         310.064.12         50         1/4         6.35         27         57.5         10x27           310.065.11         310.065.12         50         6.5         27         57.5         10x27           310.070.11         310.080.12         50         7         27         57.5         10x27           310.080.11         310.082.12         50         5/16         7.94         27         57.5         10x27           310.092.11         310.092.12         50         8.2         27         57.5         10x27           310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         3/8         9.52         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.130.11         310.130.12         10         1/2         12.7         27	310.047.11	310.047.12	50	3/16	4.76	27	57.5	10x27
310.064.11         310.064.12         50         1/4         6.35         27         57.5         10x27           310.065.11         310.065.12         50         6.5         27         57.5         10x27           310.070.11         310.070.12         50         7         27         57.5         10x27           310.080.11         310.080.12         50         5/16         7.94         27         57.5         10x27           310.092.11         310.092.12         50         8.2         27         57.5         10x27           310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.130.11         310.130.12         10         1/2         12.7         27         57.5         10x27           310.140.11         310.140.12         10         12         27         57.5	310.050.11	310.050.12	50		5	27	57.5	10x27
310.065.11         310.065.12         50         6.5         27         57.5         10x27           310.070.11         310.070.12         50         7         27         57.5         10x27           310.080.11         310.080.12         50         5/16         7.94         27         57.5         10x27           310.092.11         310.092.12         50         8.2         27         57.5         10x27           310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.140.11         310.130.12         10         12         27         57.5         10x27           310.140.11         310.140.12         10         12         27         57.5         10x27	310.060.11	310.060.12	50		6	27	57.5	10x27
310.070.11         310.070.12         50         7         27         57.5         10x27           310.080.11         310.080.12         50         5/16         7.94         27         57.5         10x27           310.082.11         310.082.12         50         8.2         27         57.5         10x27           310.090.11         310.090.12         50         9         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         14         27         57.5         10x27           <	310.064.11	310.064.12	50	1/4	6.35	27	57.5	10x27
310.080.11         310.080.12         50         5/16         7.94         27         57.5         10x27           310.082.11         310.082.12         50         8.2         27         57.5         10x27           310.090.11         310.090.12         50         9         27         57.5         10x27           310.1095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         1/2         12.7         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5	310.065.11	310.065.12	50		6.5	27	57.5	10x27
310.082.11         310.082.12         50         8.2         27         57.5         10x27           310.090.11         310.090.12         50         9         27         57.5         10x27           310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.070.11	310.070.12	50		7	27	57.5	10x27
310.090.11         310.090.12         50         9         27         57.5         10x27           310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.080.11	310.080.12	50	5/16	7.94	27	57.5	10x27
310.095.11         310.095.12         50         3/8         9.52         27         57.5         10x27           310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.082.11	310.082.12	50		8.2	27	57.5	10x27
310.100.11         310.100.12         50         10         27         57.5         10x27           310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.090.11	310.090.12	50		9	27	57.5	10x27
310.110.11         310.110.12         10         11         27         57.5         10x27           310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.095.11	310.095.12	50	3/8	9.52	27	57.5	10x27
310.120.11         310.120.12         10         12         27         57.5         10x27           310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.100.11	310.100.12	50		10	27	57.5	10x27
310.127.11         310.127.12         10         1/2         12.7         27         57.5         10x27           310.130.11         310.130.12         10         13         27         57.5         10x27           310.140.11         310.140.12         10         14         27         57.5         10x27           310.150.11         310.150.12         10         15         27         57.5         10x27	310.110.11	310.110.12	10		11	27	57.5	10x27
310.130.11     310.130.12     10     13     27     57.5     10x27       310.140.11     310.140.12     10     14     27     57.5     10x27       310.150.11     310.150.12     10     15     27     57.5     10x27	310.120.11	310.120.12	10		12	27	57.5	10x27
310.140.11     310.140.12     10     14     27     57.5     10x27       310.150.11     310.150.12     10     15     27     57.5     10x27	310.127.11	310.127.12	10	1/2	12.7	27	57.5	10x27
<b>310.150.11 310.150.12 10</b> 15 27 57.5 10x27	310.130.11	310.130.12	10		13	27	57.5	10x27
	310.140.11	310.140.12	10		14	27	57.5	10x27
<b>310.160.11</b>   <b>310.160.12</b>   <b>10</b>   16   27   57.5   10x27	310.150.11	310.150.12	10		15	27	57.5	10x27
	310.160.11	310.160.12	10		16	27	57.5	10x27

Spare parts	Optional —
990.003.00	990.088.00





# 362

362					CARBIDE T2	V2	RH
<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation		inches	<b>D</b> mm	l mm	<b>L</b> mm	S mm
362.050.11	362.050.12	50		5	44	77	10x30
362.060.11	362.060.12	50		6	44	77	10x30
362.070.11	362.070.12	50		7	44	77	10x30
362.080.11	362.080.12	50	5/16	7.94	44	77	10x30
362.100.11	362.100.12	50		10	44	77	10x30
362.120.11	362.120.12	10		12	44	77	10x30

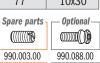
#### **TECHNICAL DETAILS:**

- Super-strength steel.
  Spiral portion coated with orange or black P.T.F.E.
  T.C.T. head with precision balanced centre point.
  2 T.C.T. precision ground cutting edges [T2].
  2 negatively ground spurs [V2].
  2 spiral flutes.

  Parallel shapk with driving flat and length adjusting flat adjus

- Parallel shank with driving flat and length adjusting screw.

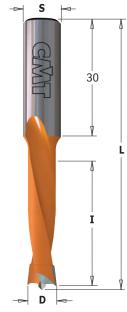
APPLICATION: used on boring machines equipped with adapters or chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.



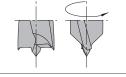
# 2 Flute Dowel Drills



CARBIDE T2 V2 RH LH







#### **TECHNICAL DETAILS:**

- Super-strength steel.
- Spiral portion coated with orange or black P.T.F.E.
  T.C.T. head with precision balanced centre point.

- 2 T.C.T. precision ground cutting edges [T2].
  2 negatively ground spurs [V2].
  2 spiral flutes.
  Parallel shank with driving flat and length adjusting screw.

311

ORDER NO.	ORDER NO.	A		D	I	L	S
Right-hand rotation	Left-hand rotation	M	inches	mm	mm	mm	mm
311.040.11	311.040.12	50	5/32	4	35	70	10x30
311.045.11	311.045.12	50		4.5	35	70	10x30
311.047.11	311.047.12	50	3/16	4.76	35	70	10x30
311.050.11	311.050.12	50		5	35	70	10x30
311.051.11	311.051.12	50		5.1	35	70	10x30
311.052.11	311.052.12	50		5.2	35	70	10x30
311.055.11	311.055.12	50	7/32	5.55	35	70	10x30
311.060.11	311.060.12	50		6	35	70	10x30
311.064.11	311.064.12	50	1/4	6.35	35	70	10x30
311.065.11	311.065.12	50		6.5	35	70	10x30
311.070.11	311.070.12	50		7	35	70	10x30
311.080.11	311.080.12	50	5/16	7.94	35	70	10x30
311.082.11	311.082.12	50		8.2	35	70	10x30
311.090.11	311.090.12	50		9	35	70	10x30
311.095.11	311.095.12	50	3/8	9.52	35	70	10x30
311.100.11	311.100.12	50		10	35	70	10x30
311.110.11	311.110.12	10		11	35	70	10x30
311.111.11	311.111.12	10	7/16	11.1	35	70	10x30
311.120.11	311.120.12	10		12	35	70	10x30
311.127.11	311.127.12	10	1/2	12.7	35	70	10x30
311.130.11	311.130.12	10		13	35	70	10x30
311.140.11	311.140.12	10		14	35	70	10x30
311.150.11	311.150.12	10		15	35	70	10x30
311.160.11	311.160.12	10		16	35	70	10x30

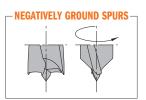
APPLICATION: used on boring machines equipped with adapters or chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.



CARBIDE T2 V2 RH LH

# Dowel Drills with Countersink





# 376-377

<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation	8	inches	<b>D</b>	l mm	L mm	S mm	
376.080.11	376.080.12	10	5/16	7.94	12	57.5	10	
376.081.11	376.081.12	10	5/16	7.94	15	57.5	10	
376.082.11	376.082.12	10	5/16	7.94	20	57.5	10	
376.100.11	376.100.12	10		10	12	57.5	10	
376.101.11	376.101.12	10		10	15	57.5	10	
376.102.11	376.102.12	10		10	20	57.5	10	
377.080.11	377.080.12	10	5/16	7.94	12	70	10	
377.081.11	377.081.12	10	5/16	7.94	15	70	10	
377.082.11	377.082.12	10	5/16	7.94	20	70	10	
377.100.11	377.100.12	10		10	12	70	10	
377.101.11	377.101.12	10		10	15	70	10	
377.102.11	377.102.12	10		10	20	70	10	

#### **TECHNICAL DETAILS:**

- Super-strength steel. Spiral portion coated with orange or black P.T.F.E.
- T.C.T. head with precision balanced centre point.
- 2 precision ground cutting edges [T2]. 2 ground spurs [V2]. 2 spiral flutes. Parallel shank with driving flat and length adjusting screw.

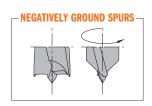
Optional -Spare parts 990.003.00 990.088.00

**APPLICATION:** used for drilling and countersinking in solid wood, wood composites, plastic and laminated materials. Suitable for high performance speed on boring machines equipped with adapters or chucks.

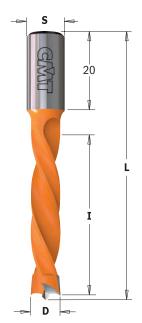




308				(	TIPPED T2	<b>V2 F</b>	RH
<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation	8	inches	mm	l mm	<b>L</b> mm	S mm
308.050.11	308.050.12	50		5	30	57.5	10x20
308.060.11	308.060.12	50		6	30	57.5	10x20
308.080.11	308.080.12	50	5/16	7.94	30	57.5	10x20
308.100.11	308.100.12	50		10	30	57.5	10x20







# - NEGATIVELY GROUND SPURS

# 300

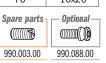
309				_	TIPPED T2	<b>V2 F</b>	RH
<b>ORDER NO.</b> Right-hand rotation	<b>ORDER NO.</b> Left-hand rotation		inches	mm	l mm	L mm	S mm
309.040.11	309.040.12	50	5/32	4	43	70	10x20
309.050.11	309.050.12	50		5	43	70	10x20
309.060.11	309.060.12	50		6	43	70	10x20
309.064.11	309.064.12	50	1/4	6.35	43	70	10x20
309.070.11	309.070.12	50		7	43	70	10x20
309.075.11	309.075.12	50		7.5	43	70	10x20
309.080.11	309.080.12	50	5/16	7.94	43	70	10x20
309.090.11	309.090.12	50		9	43	70	10x20
309.095.11	309.095.12	50	3/8	9.52	43	70	10x20
309.100.11	309.100.12	50		10	43	70	10x20
309.110.11	309.110.12	10		11	43	70	10x20
309.120.11	309.120.12	10		12	43	70	10x20
309.127.11	309.127.12	10	1/2	12.7	43	70	10x20
309.130.11	309.130.12	10		13	43	70	10x20
309.140.11	309.140.12	10		14	43	70	10x20
309.150.11	309.150.12	10		15	43	70	10x20
309.160.11	309.160.12	10		16	43	70	10x20

#### **TECHNICAL DETAILS:**

- Super-strength steel.
   Cutter portion coated with black or orange P.T.F.E.
   T.C.T. head with precision balanced centre point.
   2 T.C.T. precision ground cutting edges [T2].
   Negatively ground spurs [V2].
   4 spiral flutes.

- Parallel shank with driving flat and length adjusting screw.

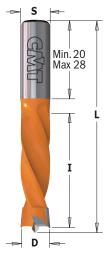
**APPLICATION:** used on boring machines equipped with adapters or chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.



# 4 Flute Dowel Drills



CARBIDE SOLID T2 V2 RH LH



-	S	₩	
	GMT	Min. 20 Max 28	Δ
		<u> </u>	Ĺ
		I 	
<b>A</b>	D		_₩_

Max 28		
<u> </u>	L	

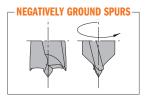
306

					1	1	
ORDER NO.	ORDER NO.	4		D	I	L	S
Right-hand rotation	Left-hand rotation		inches	mm	mm	mm	mm
306.030.21 •		50		3	18	55.5	8x28
306.050.11	306.050.12	50		5	30	55.5	8x20
306.055.11	306.055.12	50	7/32	5.55	30	55.5	8x20
306.060.11	306.060.12	50		6	30	55.5	8x20
306.064.11	306.064.12	50	1/4	6.35	30	55.5	8x20
306.070.11	306.070.12	50		7	30	55.5	8x20
306.080.11	306.080.12	50	5/16	7.94	30	55.5	8x20
306.090.11	306.090.12	50		9	30	55.5	8x20
306.100.11	306.100.12	50		10	30	55.5	8x20
306.120.11	306.120.12	50		12	30	55.5	8x20

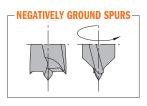
Solid Carbide

**AVAILABLE ON REQUEST** 





# 20



# 307

307					ARBIDE T2	V2 R	RH] LH
<b>ORDER NO.</b> Right-hand rotation	<b>ORDER NO.</b> Left-hand rotation	8	inches	mm	l mm	<b>L</b> mm	S mm
307.050.11	307.050.12	50		5	40	67	8x20
307.055.11	307.055.12	50	7/32	5.55	40	67	8x20
307.060.11	307.060.12	50		6	40	67	8x20
307.064.11	307.064.12	50	1/4	6.35	40	67	8x20
307.070.11	307.070.12	50		7	40	67	8x20
307.080.11	307.080.12	50	5/16	7.94	40	67	8x20
307.090.11	307.090.12	50		9	40	67	8x20
307.095.11	307.095.12	50	3/8	9.52	40	67	8x20
307.100.11	307.100.12	50		10	40	67	8x20
307.120.11	307.120.12	10		12	40	67	8x20

- **TECHNICAL DETAILS:** Super-strength steel.
- Cutter portion coated with black or orange P.T.F.E. T.C.T. head with precision balanced centre point.
- 2 T.C.T. precision ground cutting edges [T2]. Negatively ground spurs [V2].
- 4 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

**APPLICATION:** used on boring machines equipped with adapters or chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

**AVAILABLE ON REQUEST** 

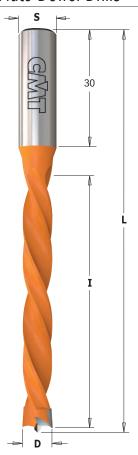
Spare parts

990.003.00

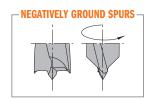
**Optional** 

990.088.00

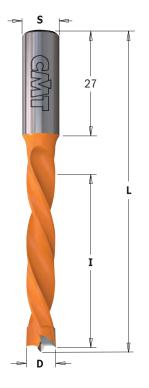




372					TARBIDE T2	V2 F	RH LH
<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation		inches	<b>D</b>	<b>I</b> mm	L mm	S mm
372.050.11	372.050.12	10		5	65	105	10x30
372.060.11	372.060.12	10		6	65	105	10x30
372.080.11	372.080.12	10	5/16	7.94	65	105	10x30
372.100.11	372.100.12	10		10	65	105	10x30
372.120.11	372.120.12	10		12	65	105	10x30



#### Optional -Spare parts 990.003.00 990.088.00



373				0	TIPPED T2	V2 F	RH
ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	8	inches	<b>D</b>	l mm	<b>L</b> mm	S mm
373.050.11	373.050.12	50		5	50	85	10x27
373.060.11	373.060.12	50		6	50	85	10x27
373.080.11	373.080.12	50	5/16	7.94	50	85	10x27
373.100.11	373.100.12	50		10	50	85	10x27
373.120.11	373.120.12	10		12	50	85	10x27

#### **TECHNICAL DETAILS:**

- Super-strength steel.
   Cutter portion coated with black or orange P.T.F.E.
   T.C.T. head with precision balanced centre point.
   2 T.C.T. precision ground cutting edges [T2].
   Negatively ground spurs [V2].

- 4 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

APPLICATION: used on boring machines equipped with adapters or chucks. Used to drill blind holes in solid wood, wood composites, plastic and laminated materials.

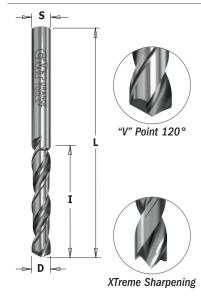




# Solid Carbide Twist Drills



SOLID LONG T2 RH LH



# 363 ORDE

ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation		<b>D</b> mm	l mm	L mm	S mm
"V" POINT 120° SHA	RPENING					
363.020.11	363.020.12	50	2	25	50	2
363.025.11	363.025.12	50	2.5	27	55	2.5
363.030.11	363.030.12	50	3	27	55	3
363.032.11	363.032.12	50	3.2	27	55	3.2
363.035.11	363.035.12	50	3.5	27	55	3.5
363.040.11	363.040.12	50	4	27	55	4
363.045.11	363.045.12	50	4.5	28	60	4.5
363.050.11	363.050.12	50	5	28	60	5
X-TREME NEW DOWN	CUT ROUND SHARPE	NING				
363.025.21	363.025.22	50	2.5	27	55	2.5
363.030.21	363.030.22	50	3	27	55	3
363.040.21	363.040.22	50	4	27	55	4
363.050.21	363.050.22	50	5	28	60	5

For use with the following items: 364-365

#### **TECHNICAL DETAILS:**

- Premium quality S.T.C.
- 2 precision ground cutting edges [T2].
- 2 spiral flutes.
- Common shank and drilling diameter (S=D).

**APPLICATION:** for drilling through holes in solid wood, wood derivatives and laminates.

For use on boring machines equipped with adapters and/or chucks.

# Adapters & Bushings for Twist Drills



# 364

ORDER NO.	8	<b>B</b> mm	L mm	S mm
364.020.00	10	2	38	10x20
364.025.00	10	2.5	38	10x20
364.030.00	10	3	38	10x20
364.032.00	10	3.2	38	10x20
364.035.00	10	3.5	38	10x20
364.040.00	10	4	38	10x20
364.045.00	10	4.5	38	10x20
364.050.00	10	5	38	10x20

For use with the following items: **363** 



#### **TECHNICAL DETAILS:**

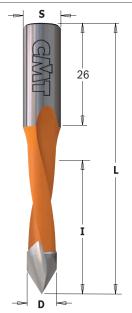
- Super-strength steel.
- Quick and secure assembly on twist drills.
- Precision relief.
- Parallel shank with driving flat.

**APPLICATION:** for use with twist drills with common shank and bushing diameter.

For use on boring machines equipped with adapters and/or chucks.

## 2 Flute Dowel Drills for Through Holes







## **313** FOR PANELS WITH MAXIMUM 20MM IN THICKNESS

<b>ORDER NO.</b> Right-hand rotation	ORDER NO. Left-hand rotation		inches	mm	<b>I</b> mm	L mm	S mm	
313.050.11	313.050.12	50		5	27	57.5	10x26	
313.060.11	313.060.12	50		6	27	57.5	10x26	
313.080.11	313.080.12	50	5/16	7.94	27	57.5	10x26	
313.100.11	313.100.12	50		10	27	57.5	10x26	

## **314** FOR PANELS WITH MAXIMUM 25-30MM IN THICKNESS

ORDER NO. Right-hand rotation	ORDER NO. Left-hand rotation	8	inches	mm	l mm	L mm	S mm
314.040.11	314.040.12	50	5/32	4	30	70	10x26
314.047.11	314.047.12	50	3/16	4.76	35	70	10x26
314.050.11	314.050.12	50		5	35	70	10x26
314.055.11	314.055.12	50	7/32	5.55	35	70	10x26
314.060.11	314.060.12	50		6	35	70	10x26
314.064.11	314.064.12	50	1/4	6.35	35	70	10x26
314.070.11	314.070.12	50		7	35	70	10x26
314.080.11	314.080.12	50	5/16	7.94	35	70	10x26
314.090.11	314.090.12	50		9	35	70	10x26
314.095.11	314.095.12	50	3/8	9.52	35	70	10x26
314.100.11	314.100.12	50		10	35	70	10x26
314.120.11	314.120.12	10		12	35	70	10x26
314.127.11	314.127.12	10	1/2	12.7	35	70	10x26

## **366** FOR PANELS WITH MAXIMUM 30-40MM IN THICKNESS

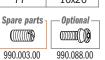
ORDER NO.	ORDER NO.	A	C	)	I	L	S
Right-hand rotation	Left-hand rotation		inches	mm	mm	mm	mm
366.050.11	366.050.12	50		5	44	77	10x26
366.060.11	366.060.12	50		6	44	77	10x26
366.080.11	366.080.12	50	5/16	7.94	44	77	10x26
366.100.11	366.100.12	50		10	44	77	10x26
366.120.11	366.120.12	10		12	44	77	10x26

### **TECHNICAL DETAILS:**

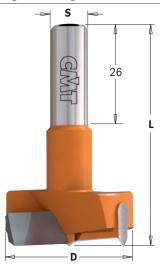
- Super-strength steel. Spiral portion coated with orange or black P.T.F.E.
- T.C.T. head with precision balanced centre point.
- 2 precision ground cutting edges [T2].
- 2 spiral flutes.
- Parallel shank with driving flat and length adjusting screw.

APPLICATION: used on boring machines and dowel drilling devices.

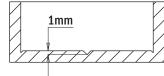
Use for drilling through holes in solid wood, wood composites, plastic and laminated materials.



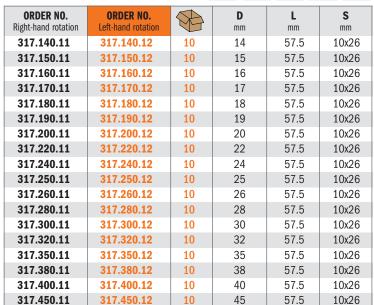








## 317



10

10

10

50

55

60

57.5

57.5

57.5

10x26

10x26

10x26

## 369

317.500.11

317.550.11

317.600.11

317.500.12

317.550.12

317.600.12

<b>ORDER NO.</b> Right-hand rotation	<b>ORDER NO.</b> Left-hand rotation		<b>D</b> mm	<b>L</b> mm	S mm
369.140.11	369.140.12	10	14	70	10x26
369.150.11	369.150.12	10	15	70	10x26
369.160.11	369.160.12	10	16	70	10x26
369.180.11	369.180.12	10	18	70	10x26
369.200.11	369.200.12	10	20	70	10x26
369.220.11	369.220.12	10	22	70	10x26
369.250.11	369.250.12	10	25	70	10x26
369.260.11	369.260.12	10	26	70	10x26
369.300.11	369.300.12	10	30	70	10x26
369.350.11	369.350.12	10	35	70	10x26
369.400.11	369.400.12	10	40	70	10x26
369.450.11	369.450.12	10	45	70	10x26
369.500.11	369.500.12	10	50	70	10x26
369.550.11	369.550.12	10	55	70	10x26
369.600.11	369.600.12	10	60	70	10x26

### **TECHNICAL DETAILS:**

- Super-strength steel.
- Cutter portion coated with orange or black P.T.F.E.
- T.C.T. head with precision balanced centre point.
- 2 T.C.T. precision ground cutting edges [T2].
- 2 negatively ground spurs [V2].
- Parallel shank with driving flat and length adjusting screw.

**APPLICATION: ideal for hinges.** Use on boring machines equipped with adapters or chucks. Use for drilling accurate and clean-cut blind holes in solid wood, wood composites, plastic and laminated materials.



# BITS FOR HAND POWER TOOLS

PRODUCTS	PAGE
Adjustable Countersink	290
Boring Bits with Parallel Shank	290
90° Countersink with Parallel Shank	290
Mortise Chisel Sets and Plug Cutters	291
Forstner Bits and Sets	292
Router Bits for DOMINO®	293
Rosette Cutters	293









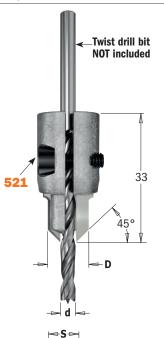








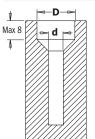
991.067.00



30

## **521.001**

<b>ORDER NO.</b> Right-hand rotation	8	<b>d</b> mm	<b>D</b> mm
521.001.11	10	3 ~ 7	11 ~ 15



TWIST DRILLS	OVERALL DIAMETER
Ø3	Ø11
Ø4	Ø12
Ø5	Ø13
Ø6	Ø14
Ø7	Ø15

### **TECHNICAL DETAILS:**

- Super strength steel.
- 2 T.C.T. precision ground cutting edges [T2].
- Fastening screw for quick and easy drill bit change.

APPLICATION: for use with spiral bits featuring a parallel shank of equal dimension to countersink shank diameter. Twist drill bit NOT included

## Boring Bits with Parallel Shank

392

CARBIDE T2	<b>V2</b>	RH
------------	-----------	----

ORDER NO. Right-hand rotation	8	<b>D</b> mm	L inches	S inches
392.150.11	10	15	2-23/64	5/16
392.200.11	10	20	2-23/64	5/16
392.250.11	10	25	2-23/64	5/16
392.260.11	10	26	2-23/64	5/16
392.300.11	10	30	2-23/64	5/16
392.350.11	10	35	2-23/64	5/16
392.351.11	10	35	2-23/64	1/2
392.400.11	10	40	2-23/64	5/16

### **TECHNICAL DETAILS:**

Spare parts **(1)** 

990.061.00

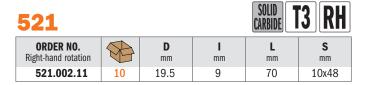
- Super strength steel.
- T.C.T. precision balanced centre point.
- 2 T.C.T. precision ground cutting edges [T2].
- 2 T.C.T. negatively ground spurs [V2].

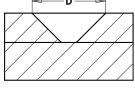
APPLICATION: for drilling blind holes in solid wood, wood derivatives and laminates. Ideal for hinges.

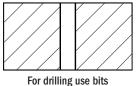
## 90° Solid Carbide Countersink with Parallel Shank



≈ 90°







For drilling use bits serie **516** or **517** 

### **TECHNICAL DETAILS:**

- For making 90° countersink blind holes accepting flat-head fasteners that sit flush with the surface.
- 3 wear-resistant precision ground cutting edges providing a smooth finish on hardened materials.
- Solid carbide tool that is harder than cobalt steel, providing a longer tool life at higher speeds.
- Parallel shank to accommodate most drill chucks.
- Suitable for wood, wood-based, non-ferrous materials and metal.





### 543



ORDER NO.	A	[	)	S	;
Right-hand rotation		inches	mm	inches	mm
543.064.51	1	1/4	6.35	3/4	19
543.079.51	1	5/16	8	3/4	19
543.095.51	1	3/8	9.52	3/4	19
543.127.51	1	1/2	12.7	3/4	19
543.158.51	1	5/8	15.8	3/4	19
543.190.51	1	3/4	19	3/4	19

It's tough to beat the old faithful mortise and tenon joint for strength and accuracy, even with all the other joinery options in the world of woodworking. It isn't the easiest joint to make, but it surely helps to have the best quality tools in your shop. That's why we've added a new selection of chisel and bit sets in all the popular sizes 1/4" (6.35mm) to 3/4" (19mm) diameter.

These sets are for use on any standard drill press mortising attachment of mortising machines.



Sample of Chisel Mortiser

## Plug Cutters



## **529**

SP	RH

<b>ORDER NO.</b> Right-hand rotation		<b>d</b> inches	<b>D</b> inches	L inches	<b>S</b> inches	T
529.095.31	5	3/8	49/64	5-1/2	1/2	4
529.127.31	5	1/2	61/64	5-1/2	1/2	4
529.158.31	5	5/8	1-7/64	5-1/2	1/2	4
529.191.31	5	3/4	1-7/32	5-1/2	1/2	4
529.222.31	5	7/8	1-11/32	5-1/2	1/2	4
529.254.31	5	1	1-15/32	5-1/2	1/2	5
529.317.31	5	1-1/4	1-19/32	5-1/2	1/2	5
529.349.31	2	1-3/8	1-27/32	6-5/16	5/8	6
529.381.31	2	1-1/2	1-31/32	6-5/16	5/8	6
529.413.31	2	1-5/8	2-3/32	6-5/16	5/8	6
529.445.31	2	1-3/4	2-7/32	6-5/16	5/8	6
529.508.31	2	2	2-15/32	6-5/16	5/8	6

### **TECHNICAL DETAILS:**

- SP steel.
- Long lasting cutting performance.
- 4 cutting edges.

APPLICATION: for drilling plugs in natural soft or medium-density woods.

<b>D</b> mm	<b>D</b> inches	Max RPM Softwood	Max RPM Hardwood
< Ø16	5/8	1000	500
< Ø40	1-37/64	500	300
> Ø40	1-37/64	200	150





toothed rim >= Ø25mm



standard rim < Ø25mm

## **537**

ORDER NO.	B	D	L	S
Right-hand rotation		inches	inches	inches
537.064.31	6	1/4	3-35/64	3/8
537.095.31	6	3/8	3-35/64	3/8
537.127.31	6	1/2	3-35/64	3/8
537.158.31	6	5/8	3-35/64	3/8
537.190.31	6	3/4	3-35/64	3/8
537.222.31	6	7/8	3-35/64	3/8
537.254.31	6	1	3-35/64	3/8
537.285.31	6	1-1/8	3-35/64	3/8
537.317.31	6	1-1/4	3-35/64	3/8
537.349.31	6	1-3/8	3-35/64	3/8
537.381.31	6	1-1/2	3-35/64	3/8
537.413.31	6	1-5/8	3-35/64	3/8
537.445.31	6	1-3/4	3-35/64	3/8
537.476.31	6	1-7/8	3-35/64	3/8
537.508.31	6	2	3-35/64	3/8
537.540.31	6	2-1/8	3-35/64	3/8
537.571.31	6	2-1/4	6-3/16	3/8
537.635.31	6	2-1/2	6-3/16	3/8
537.762.31	2	3	6-3/16	3/8
537.889.31	2	3-1/2	6-3/16	3/8
537.991.31	2	4	6-3/16	3/8
537.993.31	2	4-1/2	4-17/32	3/8

### **TECHNICAL DETAILS:**

- Long-lasting cutting performance.
- Super strength SP steel.
- Precision balanced centre point.
- 2 ground spurs [V2].
- 2 precision ground cutting edges [T2].

**APPLICATION:** for drilling precise flat bottom holes of any size in softwood. Create oval and arched openings at any angle. Create niches for the installation of brackets/straps, frames/grids.

# SP T2 V2 RH

ORDER NO. Right-hand rotation	8	<b>D</b> mm	L mm	S mm
537.100.31	6	10	90	8
537.120.31	6	12	90	8
537.140.31	6	14	90	8
537.150.31	6	15	90	8
537.160.31	6	16	90	8
537.180.31	6	18	90	8
537.200.31	6	20	90	8
537.220.31	6	22	90	8
537.240.31	6	24	90	8
537.250.31	6	25	90	8
537.260.31	6	26	90	8
537.280.31	6	28	90	8
537.300.31	6	30	90	8
537.320.31	6	32	90	10
537.350.31	6	35	90	10
537.380.31	6	38	90	10
537.400.31	6	40	90	10
537.450.31	6	45	90	10
537.500.31	6	50	90	10
537.550.31	6	55	90	10
537.680.31	6	68	157	12.7
537.700.31	6	70	157	12.7
537.750.31	2	75	157	12.7
537.800.31	2	80	157	12.7
537.850.31	2	85	157	12.7
537.900.31	2	90	157	12.7
537.950.31	2	95	157	12.7
537.990.31	2	100	157	12.7

### STANDARD RIM AND TOOTHED RIM:

Standard rims provide better guidance but tend to overheat. To overcome heat the larger diameters (>=Ø25mm) are designed with toothed rims.

## Forstner Bit Sets

We offer a wide range of Forstner bits in the most popular diameters to execute the cleanest holes for brackets/straps in softwood. Drill ovals and arched openings at any angle for the installation of hinge parts. Available in 4, 5, 7, 12 and 16 bit sets.

537.000.04 537.000.05 537.000.07 537.000.12







SP	<b>T2</b>
<b>V2</b>	RH

<b>ORDER NO.</b> Right-hand rotation	8	DESCRIPTION	BIT DIAMETER	SHANK inches	SHANK mm
537.000.04	6	4 pcs. Forstner Bit Set in clamshell	Ø1/4" - 1/2" - 3/4" - 1"	Ø3/8	
537.000.07	6	7 pcs. Forstner Bit Set in clamshell	Ø1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	Ø3/8	
537.000.16	8	16 pcs. Forstner Bit Set in plastic box	Ø1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1" - 1-1/8" -	Ø3/8	
			1-1/4"-1-3/8"-1-1/2"-1-5/8"-1-3/4"-1-7/8"-2"-2-1/8"		
537.000.05	6	5 pcs. Forstner Bit Set in clamshell	Ø15-20-25-30-35mm		Ø8-10
537.000.12	6	12 pcs. Forstner Bit Set in clamshell	Ø10-12-14-15-16-18-20-22-25-26-30-35mm		Ø8-10

## Router Bits for DOMINO® Joining Machines by FESTOOL®



SOLID Carbide



### **TECHNICAL DETAILS:**

- Premium quality super-strength steel.
- Black P.T.F.E. coating.
- S.T.C. head.
- No lateral spurs.
- 2 cutting edges [T2]. 2 spiral flutes.

APPLICATION: for use on "DOMINO® machines to rout slots for hinges.

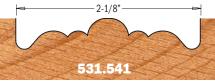
### 380

<b>ORDER NO.</b> Right-hand rotation	8	<b>D</b> mm	l mm	L mm	S mm	FESTOOL®
380.040.11•	10	4	11	38	M6x0.75	DF500
380.050.11	10	5	20	49	M6x0.75	DF500
380.060.11	10	6	28	49	M6x0.75	DF500
380.080.11	10	8	28	49	M6x0.75	DF500
380.100.11	10	10	28	49	M6x0.75	DF500
380.081.11	10	8	50	90	M8x1	DF700
380.101.11	10	10	70	90	M8x1	DF700
380.121.11	10	12	70	90	M8x1	DF700
380.141.11	10	14	70	90	M8x1	DF700

• Solid Carbide

## **Rosette Cutters**











## **531**

ORDER NO. Right-hand rotation		<b>D</b> inches	L inches	<b>S</b> inches	MAX RPM
531.541	10	2-1/8	2-57/64	3/8	1500
531.542	10	2-1/8	2-13/16	3/8	1500
531.543	10	2-1/8	2-21/32	3/8	1500
531.544	10	2-1/8	2-27/32	3/8	1500
531.701	5	2-3/4	3-1/64	3/8	1500
531.702	5	2-3/4	2-29/32	3/8	1000

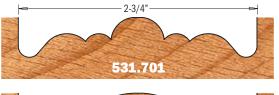
### **TECHNICAL DETAILS:**

- Super strength steel.
- 2 T.C.T. precision ground cutting edges [T2]. Parallel hexagonal shank.
- Right-hand rotation (RH).

**APPLICATION:** for use on drill presses and low speed power tools (see table above for max RPM). We recommend securely clamping your workpiece throughout drilling operations.



CARBIDE T2 RH



Drawing is 1:1 scale





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# CMT XTREME FAST AND PUSH&LOCK SYSTEMS: **NEXT GENERATION HOLE SAW**





These hole saws, equipped with the new XTREME FAST system, have been improved to ensure maximum productivity, lifetime and unbeatable performance in all materials. The innovative patented **PUSH&LOCK** system makes the traditional hole saw arbor obsolete. 1. One PUSH&LOCK arbor for all Hole Saw Series & Diameters. 2. Change your Hole Saw, with a simple PUSH&LOCK. (L) 3. Release Plug with a push. 4. Enlarge the existing hole.

### **SERIES 550X: MULTI-PURPOSE - HW**







### **SERIES 551X: BI-METAL PLUS**







## **SERIES 552: DIAMOND DRY**



























# HOLE SAWS & CARBIDE WHEEL





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Multi-Materials Carbide Wheel	306
Multi-Materials Diamond Wheel	306



























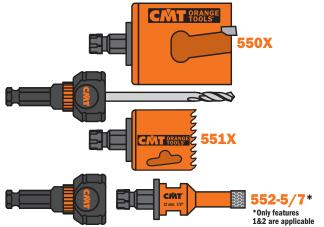
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# CMT XTREME FAST AND PUSH&LOCK SYSTEMS: NEXT GENERATION HOLE SAW





## **1.** One PUSH&LOCK arbor for all Hole Saw Series & Diameters



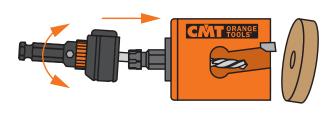


## 2. Change your Hole Saw with a simple PUSH&LOCK



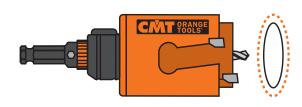


## 3. Release Plug with a push





## Enlarge the existing hole (Use adaptor set 550-PA05)

















The toolcase is provided empty, image is purely indicative.

A toolcase can contain 1 Push&Lock arbor, 1 Pilot Drill and relative number of XTreme Fast Hole Saws.

The number of Hole Saws to be contained is dependent on diameter.









ORDER NO.	DESCRIPTION
03.01.0531	Toolcase SMALL - Up to 11 Hole Saws
03.01.0532	Toolcase MEDIUM - Up to 24 Hole Saws
03.01.0533	Toolcase LARGE - Up to 63 Hole Saws



Toolcase SMALL (empty) is yours free when you purchase any 10PCS of the XTREME FAST series.

Toolcase MEDIUM (empty) is yours free when you purchase any 20PCS of the XTREME FAST series.

Toolcase LARGE (empty) is yours free when you purchase any 40PCS of the XTREME FAST series.

## Extension for PUSH&LOCK arbors



## **55EX**

Extension for PUSH&LOCK arbors 550-PH85 & 550-PH11.



ORDER NO.	S=E inches	3 mm	inches	mm
55EX-8506	HEX11/32	HEX8.5	6	150
55EX-8512	HEX11/32	HEX8.5	12	300
55EX-8518	HEX11/32	HEX8.5	18	450
55EX-1106	HEX7/16	HEX11	6	150
55EX-1112	HEX7/16	HEX11	12	300
55EX-1118	HEX7/16	HEX11	18	450



HEXAGONAL SHANK	HEX11 7/16"	QUICK
-----------------	----------------	-------

550X



# One PUSH&LOCK arbor for all Hole Saw Series & Diameters c





**PUSH&LOCK** arbor for **XTREME FAST** system, shank **HEX8.5**mm (11/32"). Compatible with chucks ≤25/64" (10mm).

HSS pilot drill (550-PD02 included)





550X

HSS

551X **■ 552-5/7** 



### 550-PH11

**PUSH&LOCK** arbor for **XTREME FAST** system, shank **HEX11**mm (7/16"). Compatible with chucks ≤1/2" (13mm). **HEAVY DUTY.** HSS pilot drill (550-PD02 included)

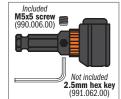












### 550-PD01

TCT Pilot drill for PUSH&LOCK arbor, Ø17/64" (7mm), L=4-15/16" (125mm).





### **Suitable for Series:**



### **MATERIALS**





### 550-PD02

**HSS** Pilot drill for **PUSH&LOCK** arbor, Ø1/4" (6.35mm), 4-15/16" (L=125mm).



### **Suitable for Series:**





### **MATERIALS**



















## 550-PA06 STARTER KIT (550-PH85 1pc., 550-PA01 2pcs., 550-PA02 3pcs.)

HEXAGONAL 1



























## **XTREME FAST** system is compatible with all Hole Saw Series & Diameters



## 550-PA01 (3pcs.)

**XTREME FAST** Adaptor 1/2"-20 for hole saw Ø5/8"~1-3/16" (16~30mm)

















## 550-PA02 (3pcs.)

**XTREME FAST** Adaptor 5/8"-18 for hole saw Ø1-1/4"~5-29/32" (32~150mm)









**Suitable for Series:** 







≥Ø6"



## **550-PA03** (3pcs.)

**XTREME FAST** Adaptor 5/8"-18 for hole saw  $\ge \emptyset$  6" (152mm)









**Suitable for Series:** 





**550-PA07** (3pcs.)

XTREME FAST Adaptor 5/8"-11 for hole saw series 552-7









### **Suitable for Series:**



\*Pilot drill of PUSH&LOCK arbor must be disassembled during use with this series





## KIT FOR ENLARGMENT EXISTING HOLE

(3pcs. LONG SPINDLE)

















5/8"+ 1/2"
LONG SPINDLE

**Suitable for Series:** 





299





### **SECURED TOOTH TECHNOLOGY**

Thanks to advanced technology, cutting teeth are securely anchored to body, which means they stand up better to hard materials and breakage.







### CONSTRUCTION CARBIDE

Specially formulated construction carbide, used for cutting teeth provide 10X times longer cutting life and performs 5X faster then the standard hole saw.



### **MATERIALS**













**LAMINATES** 

300

**PLASTERBOARD** 



**PLASTICS** 

Operating at higher speeds than those indicated will shorten hole saw life and produce pour quality holes.

### **PRE-BORE:**

For best results, always pre-bore with the pilot drill only.

**NEVER USE HAMMER MECHANISM WITH THESE HOLESAWS!** 









APPLICATIONS: examples on wood, brick, plastic.











## ALL HOLE SAWS 550X ARE EQUIPPED WITH AN XTREME FAST ADAPTOR



ORDER NO.	8	D		T	WOOD/PLYWOOD RPM*	MDF/LAMINATES RPM*	PLASTERBOARD RPM*	PLASTICS RPM*	BRICK/AERATED CONCRETE	SOFT TILES RPM*
550-019X	10	inches 3/4	mm 19	1	2300	2300	2300	2100	<b>RPM</b> * 900	700
550-019X 550-020X	10	25/32	20	1	2200	2200	2200	2000	900	600
550-020X 550-022X	10	7/8	22	1	2000	2000	2000	1800	800	600
550-025X	10	1	25	1	1800	1800	1800	1600	700	500
550-025X 550-029X	10	1-1/8	29	1	1500	1500	1500	1400	600	400
550-029X 550-030X	10	1-1/6	30	1	1500	1500	1500	1300	600	400
550-030X 550-032X	10	1-3/10	32	1	1400	1400	1400	1200	500	400
550-032X 550-035X	10	1-1/4	35	1	1300	1300	1300	1100	500	300
550-033X	10	1-3/8	38	2	1100	1100	1100	1000	400	300
550-038X	10	1-1/2	40	2	1100	1100	1100	1000	400	300
550-040X	10	1-3/4	44	2	1000	1000	1000	900	400	300
550-044X	10	1-7/8	48	2	900	900	900	800	300	200
550-048X	10	2	51	3	800	800	800	800	300	200
550-051X	10	2-1/8	54	3	800	800	800	700	300	200
550-054X	10	2-1/0	56	3	800	800	800	700	300	200
550-050X	10	2-3/10	57	3	700	700	700	700	300	200
550-060X	10	2-1/4	60	3	700	700	700	600	300	200
550-064X	10	2-1/2	64	3	700	700	700	600	200	200
550-065X	10	2-9/16	65	3	700	700	700	600	200	200
550-068X	10	2-11/16	68	3	600	600	600	600	200	100
550-070X	10	2-3/4	70	3	600	600	600	500	200	100
550-073X	10	2-7/8	73	3	600	600	600	500	200	100
550-076X	10	3	76	4	500	500	500	500	200	100
550-079X	10	3-1/8	79	4	500	500	500	500	200	100
550-080X	10	3-5/32	80	4	500	500	500	500	200	100
550-082X	10	3-15/64	82	4	500	500	500	500	200	100
550-083X	10	3-1/4	83	4	500	500	500	400	200	100
550-089X	10	3-1/2	89	4	500	500	500	400	200	100
550-092X	10	3-5/8	92	4	400	400	400	400	200	100
550-102X	5	4	102	5	400	400	400	400	100	100
550-105X	5	4-1/8	105	5	400	400	400	300	100	100
550-108X	5	4-1/4	108	5	400	400	400	300	100	100
550-111X	5	4-3/8	111	5	400	400	400	300	100	100
550-114X	5	4-1/2	114	5	300	300	300	300	100	100
550-118X	2	4-5/8	118	6	300	300	300	300	100	100
550-127X	2	5	127	6	300	300	300	300	100	100
550-133X	2	5-1/4	133	6	300	300	300	300	100	100
550-152X	2	6	152	6	200	200	200	200	100	50
550-160X	1	6-5/16	160	7	200	200	200	200	100	50
550-168X	1	6-5/8	168	7	200	200	200	200	100	50
550-185X	1	7-5/16	185	8	200	200	200	200	100	50
550-210X	1	8-1/4	210	8	200	200	200	100	50	50

\*SUGGESTED RPM







### **TOOTH DESIGN**

provides a smoother cut and better chip clearance preventing clogging and heat build-up.

Teeth are alternate & side set to minimize binding and friction therefore requiring less feed pressure.



### **BI-METAL 8% COBALT**

Teeth made with Bi-metal 8% Cobalt provide extreme results. Superior performance and 2X longer cutting life then the standard hole saw.





### **MATERIALS**

**ALUMINUM** 















### **COOLING LUBRICANT:**

When drilling metals, lubrication serves several purposes:

- it cools the saw and workpiece
- it reduces heat and abrasion which shortens cutting life
- it helps remove swarf from the cutting surface
- it extends hole saw life by 500%.

### **SPEED KILLS!**

Operating at higher speeds than those indicated will shorten hole saw life and produce pour quality holes.

### **FEED PRESSURE:**

Always consider materials in use and project type. Apply sufficient feed pressure to aid proper chip removal. Reduce the pressure when hole saw becomes hot or if teeth start to clog. Insufficient feed pressure will lead to premature tooth dulling. Too much pressure will damage teeth.

### **PRE-BORE:**

For best results, always pre-bore with the pilot drill only.

**NEVER USE HAMMER MECHANISM WITH THESE HOLESAWS!** 







COPPER/BRASS







# ALL HOLE SAWS 551X ARE EQUIPPED WITH AN XTREME FAST ADAPTOR



ORDER NO.	8	<b>D</b> inches	mm	STAINLESS STEEL RPM*	CAST IRON RPM*	STEEL RPM*	ALUMINUM RPM*	COPPER/BRASS RPM*	PLASTICS RPM*
551-016X	10	5/8	16	160	240	320	500	500	500
551-019X	10	3/4	19	140	200	280	420	420	420
551-020X	10	25/32	20	120	200	260	400	400	400
551-022X	10	7/8	22	120	180	240	360	360	360
551-025X	10	1	25	100	160	200	320	320	320
551-027X	10	1-1/16	27	80	140	180	300	300	300
551-029X	10	1-1/8	29	80	140	180	280	280	280
551-030X	10	1-3/16	30	80	120	160	260	260	260
551-032X	10	1-1/4	32	80	120	160	240	240	240
551-035X	10	1-3/8	35	60	100	140	220	220	220
551-038X	10	1-1/2	38	60	100	140	200	200	200
551-040X	10	1-9/16	40	60	100	120	200	200	200
551-043X	10	1-11/16	43	60	80	120	180	180	180
551-044X	10	1-3/4	44	60	80	120	180	180	180
551-048X	10	1-7/8	48	40	80	100	160	160	160
551-051X	10	2	51	40	80	100	160	160	160
551-054X	10	2-1/8	54	40	60	80	140	140	140
551-057X	10	2-1/4	57	40	60	80	140	140	140
551-060X	10	2-3/8	60	40	60	80	120	120	120
551-064X	10	2-1/2	64	40	60	80	120	120	120
551-065X	10	2-9/16	65	40	60	80	120	120	120
551-068X	10	2-11/16	68	20	60	60	120	120	120
551-070X	10	2-3/4	70	20	40	60	100	100	100
551-073X	10	2-7/8	73	20	40	60	100	100	100
551-076X	10	3	76	20	40	60	100	100	100
551-079X	10	3-1/8	79	20	40	60	100	100	100
551-083X	10	3-1/4	83	20	40	60	80	80	80
551-086X	10	3-3/8	86	20	40	60	80	80	80
551-089X	10	3-1/2	89	20	40	60	80	80	80
551-092X	10	3-5/8	92	20	40	40	80	80	80
551-102X	5	4	102	20	40	40	80	80	80
551-105X	5	4-1/8	105	20	20	40	60	60	60
551-108X	5	4-1/4	108	20	20	40	60	60	60
551-114X	5	4-1/2	114	20	20	40	60	60	60
551-127X	2	5	127	20	20	40	60	60	60
551-133X	2	5-1/4	133	20	20	40	60	60	60
551-140X	2	5-1/2	140	10	20	20	40	40	40
551-152X	2	6	152	10	20	20	40	40	40
551-168X	1	6-5/8	168	10	20	20	40	40	40

\*SUGGESTED RPM

## Diamond Dry Hole Saws



Diamond dry hole saws with continuous edge have been specially developed for professionals that need to drill in extremely tough materials like HARD TILES (ceramic, gres, etc.), HARD STONES (granite, marble, etc.), ARTIFICAL STONES (OKITE®, SILESTONE®, etc.), in which it is increasingly difficult to drill with conventional hole saws. Drilling other masonry materials is also possible, but it will reduce tool life. These hole saws guarantee excellent performance and superior lifetime!

### **MATERIALS**









### DIAMOND GRIT

Diamond grit featuring strong cubo-octahedral inclusion-free heat-resistant crystals, guarantees fast clean cutting and longer cut-ting life then the standard hole saw.



**AVAILABLE** WITH **SHANK** 











RPM 2200 ~ 4000 \*

### **552-0** For Drill

ORDEI	R NO.	8	inches	mm	l inches	L inches	HARD TILES (CERAMIC & GRES) HARD STONES, ARTIFICAL STONES	S
552-	005	10	3/16	5	1-3/16	2-11/16	RPM 2200 ~ 4000 *	HEX
552-	006	10	1/4	6	1-3/16	2-11/16	RPM 2200 ~ 4000 *	HEX
552-	800	10	5/16	8	1-9/16	3-1/8	RPM 2200 ~ 4000 *	HEX
552-	010	10	3/8	10	1-9/16	3-1/8	RPM 2200 ~ 4000 *	HEX
552-	012	10	1/2	12	1-9/16	3-1/8	RPM 2200 ~ 4000 *	HEX
552-	014	10	9/16	14	1-9/16	3-1/8	RPM 2200 ~ 4000 *	HEX
552-	016	10	5/8	16	1-9/16	3-1/8	RPM 2200 ~ 4000 *	HEX

\*We recommend the use of a high speed drill (minimum 14V)





Filled with

cooling wax **552-WAX** 

PACK QTY. 10 pcs.

## 552-WAX cooling & Lubricating wax

While drilling, the wax will melt away (eliminated along with drilling waste). This facilitates cooling and lubrication. Replenish wax after every use (when still warm) to extend lifetime. Jar 30ml. (1 fl.Oz)





ORANGE Order 105.
TOOLS 552-001-05

## 552-001-05

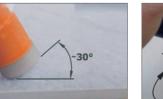
### **5 PIECE HOLE SAW SET**

- **552-005** Ø3/16" (5mm)
- **552-006** Ø1/4" (6mm)
- **552-008** Ø5/16" (8mm)
- **552-010** Ø3/8" (10mm)
- **552-012** Ø1/2" (12mm)

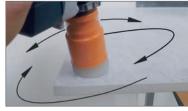
PACK QTY. 10 pcs.



ORANGE TOOLS















# S⊸ MAX RPM 19mm Filled with cooling wax 552-WAX (until Ø16mm)

≥ Ø3/4"

550-PA07

XTREME FAST Adaptor 5/8"

(series **552-7**) for

PUSH&LOCK System (see page 299)

without cooling wax

## **552-7** For Angle Grinder

OR	DER NO.	8	inches	mm	l inches	<b>L</b> inches	HARD TILES (CERAMIC & GRES) HARD STONES, ARTIFICAL STONES	S
55	52-705	10	3/16	5	1-3/8	2-3/8	MAX RPM 14000	5/8"-11
55	52-706	10	1/4	6	1-3/8	2-3/8	MAX RPM 14000	5/8"-11
55	52-708	10	5/16	8	1-3/8	2-3/8	MAX RPM 14000	5/8"-11
55	52-710	10	3/8	10	1-3/8	2-3/8	MAX RPM 14000	5/8"-11
55	52-712	10	1/2	12	1-3/8	2-3/8	MAX RPM 14000	5/8"-11
55	52-716	5	5/8	16	1-3/8	2-3/8	MAX RPM 14000	5/8"-11
55	52-719	5	3/4	20	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-725	5	1	25	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-732	5	1-1/4	32	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-735	5	1-3/8	35	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-738	5	1-1/2	38	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-751	5	2	51	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-754	5	2-1/8	54	1-9/16	2-3/8	MAX RPM 14000	5/8"-11
55	52-789	5	3-1/2	89	5/8	2-3/8	MAX RPM 14000	5/8"-11

## 552-GUIDE

Drill Guide with Suction Cups - 7 holes  $\emptyset 5/32"$  - 3/16" - 1/4" - 9/32" - 5/16" - 3/8" - 1/2"Ø4 - 5 - 6 - 7 - 8 - 10 - 12mm





## 552-701-06

- **6 PIECE HOLE SAW SET**
- **552-706** Ø1/4" (6mm)
- 552-708 Ø5/16" (8mm)
- **552-710** Ø3/8" (10mm)
- **552-712** Ø1/2" (12mm)
- 552-GUIDE
- 552-EX16

PACK QTY. 10 pcs.

# Hexagonal adaptor 5/8" (series 552-7) for drills PACK QTY. 10 pcs.

### **552 RECOMMENDATIONS FOR USE:**

Turn on drill to start tool rotation. Begin drilling at a 30° angle - this is the angle measured between the hole saw and the working surface. Cutting at an angle will prevent tool from slipping and facilitate precision centering. To improve stability during operation, use the working surface as leverage by resting the drill against it.

Continue the cut vertically, accompanying the tool in an orbital motion.

This will favor better cooling and chip evacuation. (If you are using a guide, begin the cut vertically, then lift the guide and continue cutting in an orbital motion).

Remember, the hole saw is not a drill bit. Attempting to bore holes perpendicular to the work surface on a frequent basis will drastically reduce tool lifespan.

Using water as a cooling agent may help extend the life of the hole saw.

RPM SUGGESTED? High RPM values reduce the possibility of damaging/burning the diamond edge, ensuring a longer life.

**NEVER USE HAMMER MECHANISM WITH THESE HOLESAWS!** 











## ITK'PLUS\* 286.115.01 MULTI-MATERIALS CARBIDE WHEEL DISCO DE CORTE MULTI-MATERIALES GRIT GRIT Ø115 Ø4½" 22.2mm 7/8" NON-STICK CARBIDE ORANGE SHIELD COATING



## **286** FOR ANGLE GRINDER







APPLICATIONS: examples of cutting on wood, wood & nails and plastics.







**MACHINES** 





Blade diameter compatibility is contingent on machine type.

**MATERIALS** 









## Multi-Materials DIAMOND Dry Wheel











**MULTI-MATERIALS** 

APPLICATIONS: examples of cutting on bricks, hard stone and artificial stone.











### **MACHINES**





Blade diameter compatibility is contingent on machine type.

### **MATERIALS**



































# **ACCESSORIES**

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## Hinge Boring System

CMI TOO

The innovative **CMT333** Hinge Boring System with 3 spindle-heads allows you to bore holes for any hinge brand. The universal modular base supports the installation of many boring heads engineered by worldwide leading companies in the sector. Use the **CMT333** universal hinge boring system on all hand-held or standing drill press tools.

## CMT333-03





For use on drill presses



For use with portable drills

### **Technical Features and Specifications:**

- Metal parts are anti-rust
- Aluminum alloy
- Max 5000 RPM
- Six radial anti-friction bearings
- Ground chromium plated slide bars (Maximum Length=90mm)

### The complete system CMT333-03 contains:

- CMT333 the modular base support
- **CMT333-4595** boring head
- 317.350.11 Ø35mm hinge boring bit.

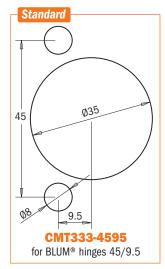
### Not included:

310.080.12 Ø8mm Dowel Drills



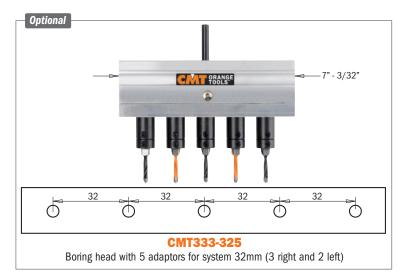












## BLUM® Hinge Boring Head for Boring Machines

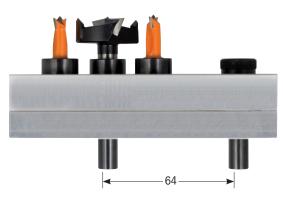


The innovative **CMT334** BLUM® Hinge Boring Head features three spindles which allow you to bore hinge holes cleanly and efficiently. For use on boring and point-to-point machines.

**CMT334** 

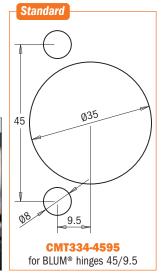


ORDER NO.	DESCRIPTION
CMT334-4595	Hinge Boring Head (bits not included)
393.350.11	Boring Bit Ø35mm x 38.5mm. Right-hand rotation
393.080.12	Dowel Drill Ø8mm x 38.5mm. Left-hand rotation





For use on boring and point-to-point machines



## Cabinet Hardware Jig Guide

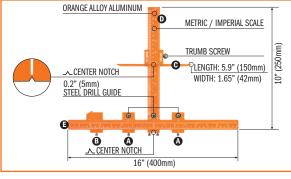




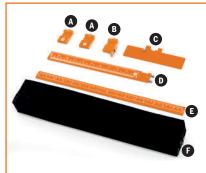
## **CHG-001**

### **TECHNICAL DETAILS:**

- Vertical scale:.....0~10" (0~250mm)
- Horizontal scale (each side): ..... 0~8" (0~200mm)
- Weight:.....1.2lb (0.55Kg)







### SET CONTAINS:

- **A**: Adjustable Slider Drill Guides
- B: Lateral Stop
- C: Reference Stop
- **D**: Vertical Ruler
- E: Horizontal Ruler
- F: Storage Bag

309

## Pocket-Pro Joinery System



For fast, easy and accurate cabinet & furniture construction. Designed by CMT and professional cabinetmakers, this new system allows you to make rock-solid pocket hole joints in stock 1/2" (12.7mm) to 1-5/8" (41.3mm) thick with unprecedented speed and accuracy.

**PPJ-002** 

The heart of the Pocket-Pro System is our unique moulded jig, which features hardened drill bushings and an interlocking two-piece design. Sliding the jig up or down enables you to adjust the stock thickness in preset 1/16" (1,6mm) increments without test joints or measurements! If you have used other pocket hole jigs you will be familiar with many joint applications, but you will benefit from many Pocket-Pro System advantages.

### For example:

- some jigs require adding or removing various parts of the jig to join different stock thicknesses. With the Pocket-Pro System you simply have to adjust the interlocking jig up or down for the full range of joints 1/2" (12.7mm) to 1-5/8" (41.3mm) thick;
- other jigs require frequent repositioning of the depth stop collar for different joint styles. CMT's Pocket-Pro Joinery System allows you to make most of the adjustments leaving the stop collar in the same position of the drill bit;
- plus, with CMT's Pocket-Pro System you can quickly adjust the location of the pocket in relation to the end of your workpiece to create a stronger joint by using longer screws, or to leave more "meat" in the joint.

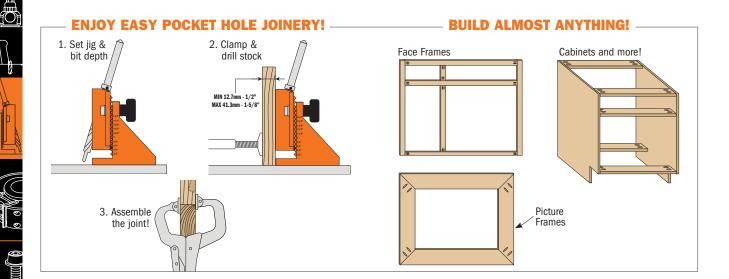
Check out the Pocket-Pro Joinery System today. Easy enough for beginners and accurate enough for professional workers, it is the world's most versatile pocket hole jig.



ORDER NO.	DESCRIPTION
PPJ-002	Pocket-Pro Joinery System set
Set contains:	
999.505.10	Pocket-Pro main parts
999.505.05	Toggle clamp
515.001.51	Ø3/8" (9.52mm) step drill bit
541.095.00	Ø3/8" (9.52mm) depth collar for step drill bit
999.505.08	L=6" (152mm) Square drive screw driver bit
990.101X30	Masterpack 30 screw L=1-1/4" (31.7mm)

ORDER NO.	DESCRIPTION OPTIONAL
990.101X500	500 fine screws L=1-1/4" (31.7mm)
990.102X500	500 coarse screws L=1-1/4" (31.7mm)
990.103X500	500 fine screws L=1-1/2" (38.1mm)
990.104X500	500 coarse screws L=1-1/2" (38.1mm)







Beautiful, professional-quality inlays aren't as difficult as they seem. In fact, they're easy with a CMT Inlay Kit. Solid brass components come with either a solid carbide spiral bit or straight bit with 1/8" cutting diameter and 1/4" shank. Just remove and reassemble the small bushing to make the recess in the workpiece and cut out the inlay.

Perfect for toymaking, puzzle making, lettering and lots of other decorative projects. Use the spiral bit for routing MDF, or the straight

bit for natural wood.



ORDER NO.	DESCRIPTION
899.051.00	Inlay kit with 1/8" solid carbide spiral bit (Ø1/4" shank)
899.052.00	Inlay kit with 1/8" solid carbide straight bit (Ø1/4" shank)
899.001.00	Universal router base
192.001.11	1/8" HWM spiral bit (Ø1/4" shank)
812.032.11	1/8" HWM straight bit (Ø1/4" shank)

## Template Guide Kit



A practical 7-bushing kit that will extend the possibilities of your router. For template-controlled operations such as dovetailing, stair routing, hinge butt routing, lock face routing and more general template tasks. These template guides can be used with any router featuring a 30mm (1-3-/16") bore baseplate. Fits the most popular routers.

ORDER NO.	DESCRIPTION
CMT-TGA	Template Guide Kit

### Set contains:

		i	i	i					
Q.TY	1	1	1	1	1	1	1	2	1
Internal diameter	5/8"	21/32"	17/32"	13/32"	11/32"	9/32"	1/4"	Lock Nut	Adapter
Outside diameter	51/64"	3/4"	5/8"	1/2"	7/16"	3/8"	5/16"	Lock Nut	
Height	9/16"	9/16"	9/16"	5/16"	5/32"	5/16"	5/32"		

## Universal Dovetail Jig



Dovetail joints give a touch of craftsmanship to your work, but many woodworkers avoid these joints, because of their apparent complexity. CMT's new 12" dovetail jig is the fast easy solution! Thanks to precise templates, permanent stops and easy adjustments, we have taken the "tinkering" out of dovetail joinery. Simply clamp your workpiece in with the edges against the factory-set stops, set your bit depth and then you are ready to rout. Rest assured, we haven't cut corners on quality! This jig features a steel body, templates, stops and clamping bars, so it produces perfect long-lasting joints for all your woodworking needs. The machine accepts stock from 7/16" to 1" thickness, and is capable of producing a variety of joints with the available templates. Standard jig includes a template for 1/2" half blind joints and a template guide. Optional templates are available for through dovetail and box joints.

## **CMT300**

Max Length 12" Joint Thickness 7/16"~1"



### **IMPORTANT TIP**



### TCT DOVETAIL BITS (not included): 818.128.11 D=1/2" A=14° S=1/4"

**818.628.11** D=1/2" A=14° S=1/2"



### Will the template fit my router?

Standard template guide features two prebored holes with 2" center-to-center distance and attaches via two screws. Many routers are compatible with this design. However, if yours is not, choose from the list of universal router bases here below:

Universal router bases

ORDER NO.

For Ø1/4" and Ø1/2" shank

**CMT300-SB2** 

### Here's how it works:







## Universal Dovetail Jig - Additional Templates, Bits & Accessories



### Half Blind Template CMT300-T064



ORDER NO.	TEMPLATE LENGTH inches	DOVETAIL SIZE inches	THICKNESS inches	COLOUR
CMT300-T064	12	1/4	5/16 ~ 15/32	green

**899.003.00** Supplied with Ø5/16"x5/32" precision guide

To be used with CMT dovetail router bits:

**818.064.11** Dovetail bit Ø1/4"x5/16" (shank Ø1/4")



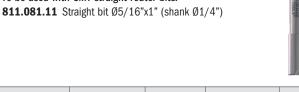
### Box Joint Templates CMT300-T080 - CMT300-T127



ORDER NO.	TEMPLATE LENGTH inches	DOVETAIL SIZE inches	THICKNESS inches	COLOUR
CMT300-T080	12	5/16	5/16 ~ 25/32	blue

**899.004.00** Supplied with Ø7/16"x5/32" precision guide

To be used with CMT straight router bits:



ORDER NO.	TEMPLATE LENGTH inches	DOVETAIL SIZE inches	THICKNESS inches	COLOUR
CMT300-T127	12	1/2	5/16 ~ 25/32	red

**899.005.00** Supplied with Ø5/8"x5/32" precision guide

To be used with CMT straight router bits:

**812.127.11** Straight bit Ø1/2"x1-1/4" (shank Ø1/4")

**811.627.11** Straight bit Ø1/2"x1" (shank Ø1/2")



## Through Dovetail Templates CMT300-T129



ORDER NO.	TEMPLATE LENGTH inches	DOVETAIL SIZE inches	THICKNESS inches	COLOUR
CMT300-T129	12	1/2	5/16 ~ 25/32	brown

**899.004.00** Supplied with Ø7/16"x5/32" precision guide

To be used with CMT router bits:

**811.081.11** Straight bit Ø5/16"x1" (shank Ø1/4")

**818.129.11** Dovetail bit Ø1/2"x13/16" (shank Ø1/4")



### Through Dovetail Templates CMT300-T190

ORDER NO.	TEMPLATE LENGTH inches	DOVETAIL SIZE inches	THICKNESS inches	COLOUR	
CMT300-T190	12	3/4	19/32 ~ 1	violet	

**899.006.00** Supplied with Ø7/8"x5/32" precision guide

To be used with CMT router bits:

**812.127.11** Straight bit Ø1/2"x1-1/4" (shank Ø1/4")

**818.190.11** Dovetail bit Ø3/4"x7/8" (shank Ø1/4")

**811.627.11** Straight bit Ø1/2"x1" (shank Ø1/2") **818.690.11** Dovetail bit Ø3/4"x7/8" (shank Ø1/2")



### PRECISION GUIDE FOR ROUTER:

ORDER NO.	<b>DIAMETER</b> inches
899.003.00	5/16 x 5/32
899.004.00	7/16 x 5/32
899.005.00	5/8 x 5/32
899.006.00	7/8 x 5/32



### HERE ARE A FEW OF THE BEAUTIFUL DOVETAIL JOINTS YOU CAN PRODUCE USING CMT BITS

CMT300 - T064 CMT300 - T128 (INCLUDED with CMT300)



CMT300 - T080 CMT300 - T127



CMT300 - T129 CMT300 - T190

## Professional Straight Edge Clamps



Used as a fence for your bandsaw, drill press or even as an auxiliary fence on your router table or table saw, CMT's professional straight edge clamps represent a two-in-one tool. Use them as an edge guide, or to easily clamp your boards or any object for woodworking. Available in different sizes.



### **Features:**

- Made of extruded aluminum for easy carriage and enhanced durability.
- Light, yet more rigid than any other clamps on the market.
- Measuring scales, low-profile jaws, built-in T-tracks on the top allowing the use of accessories or jigs.
- Either single or back-to-back clamps.

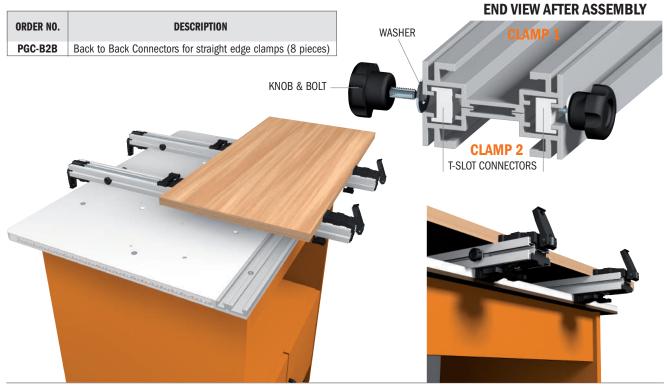
ORDER NO.	DESCRIPTION	
PGC-24	Professional Straight Edge Clamp 24"	
PGC-36	Professional Straight Edge Clamp 36"	
PGC-50	Professional Straight Edge Clamp 50"	

Low-profile clamps allow for accurate cuts, dados and grooves. In addition they properly work as an auxiliary fence on your drill press or router table. Sturdy jaws hold your workpiece to the full length of the clamp without any side-to-side play. Back-to-back clamps with the suitable accessories also let you manage your woodworking operations with a lot of versatility. Adjustable scale and two T-tracks allow you to use many accessories.



## Back-to-Back Connectors for Straight Edge Clamps (optional)

Lay two more straight edge clamps on the back of the other pair of straight edge clamps and secure them by using your back-to-back connectors. Fasten the bottom jaw pads to the table top and clamp wood with the top jaw pads. Thanks to the low profile jaws, your work surface is never obstructed. The back-to-back straight edge clamps can also be taken apart for making two separate clamps.



## Adjustable Precision Router Dado Jig



The perfect tool for crafting grooves, dadoes, and joints. Easy to use and fully adjustable. You can create dadoes of any size using the same router by simply increasing the number of passes you make. Sturdy construction that's built to last. Smooth rolling steel rollers are ideal for easy maneuverability and stress-free handling. Compatible with almost any router equipped with 1-3/16" (30mm) bushings or by using the Bushing Template Guides included. (bore baseplate sold separately). Guarantees clean precise dadoes.







Prepare your router: Install the guide bushing rings into the bore baseplate and then attach it as the base for your router. Select and insert your router bit.

Prepare the Adjustable Guide Rail & Straight Edge Clamp: Position both the adjustable straight edge clamp and then the adjustable precision router dado jig onto your workpiece. Then using the adjustable thumb screws, secure it. Once assembled, ensure that the adjustable precision dado jig slides freely.



Insert your router into the center hole of the adjustable precision router dado jig.



Set your cutting depth by raising or lowering the bit until desired depth is reached. Determine the starting point of the cut you wish to make by using the Dado Alignment Marks on the long sides (width) of the Adjustable Precision Router Dado Jig which indicates the outside edge of the dado cut closest to the straight edge clamp (12-10-8mm front, 1/2", 3/8", 1/4" back).



Holding onto your router in position, power on and begin making the cut by pushing forward and back on the straight edge clamp using the precision router dado jig as a guide. Makes impeccable grooves and dadoes along the length of your workpiece.

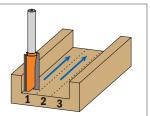


For creating dadoes that exceed router width, using the adjustable gauge, simply select the desired width on the graduated scale.

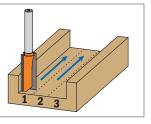




Make as many passes necessary to obtain the desired dado width.



RECOMMENDED: (but not included)
PGC Straight Edge Clamp with graduated scale
(see catalog page 314)



CMT
Service Control of the Control of th
*

ORDER NO.	DESCRIPTION
PGD-1	Adjustable Precision Router Dado Jig

## Flexible Template for Curved & Arched Routing

The **CMT flexible template** is easy to screw on any kind of wooden panels, MDF or chipboard for creating forms, arcs and curved elements easily and rapidly. In order to fix your **template** you can use countersunk screws, which are widely available on the market. The CMT template is made of a **highly-resistant flexible plastic**, which can be **tied in knots without any risk of ruining or reducing flexibility.** 

Screw your template to the edge of the panel and follow its shape and rout the border on the **guide ring.** The template is suitable for **manual feed** on routers, router tables and spindle moulders. Rout easily, safely and accurately to make multiple forms such as **arcs, curved elements and cut-out forms.** Mark the edge of your form and screw it onto a previously-positioned panel from underneath. If you rout with a guide ring mounted onto your spindle moulder, keep your hands a safe distance behind the template.

**Two different profiles in three lengths are available.** Please notice that the smallest profile features a short radius, whereas the larger profile features a larger opening in case of flat and long curves.

ORDER NO.	DESCRIPTION		<b>L</b> inches
TMP-1000	Flexible routing template for routing	23/32" x 23/32"	47-1/4"
TMP-1200	Flexible routing template for routing	15/32" x 15/32"	47-1/4"

















## 12 Corner Radius Router Template Set from 1/8" to 1"



## **TMP-R12**

Our useful 3-piece corner radius template set includes 5/16" thick acrylic templates that will allow you to make 12 different radii (4 per template) by using a flush trim or a pattern bit (sold separately). Included with the templates you will also find 4 alignment pins and 4 wood screws.

Use the pins to align the template onto your workpiece, then use the four wood screws provided to secure it.

Remove the alignment pins and use the bit to cut the corner of your workpiece to the same radius as the template.

ORDER NO.	DESCRIPTION
TMP-R12	12 Corner Radius Router Template
Set contains:	
	12 different radii (3 templates)
	4 alignment pins
	4 wood screw

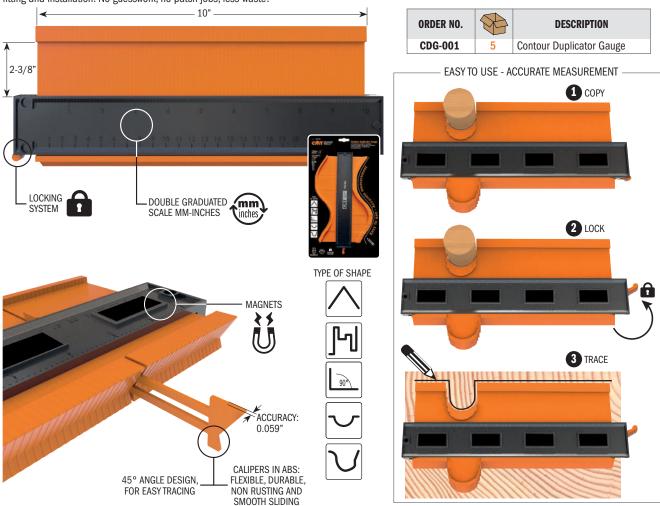
	RADIUS	
	inches	mm
	1/8	3
	3/16	5
	1/4	6
	5/16	8
i	3/8	10
	7/16	11
	1/2	12
	9/16	14
1	5/8	16
	3/4	19
	7/8	22
	1	25

## Contour Duplicator Gauge



For precision tracing of shapes, even curved, in a variety of materials. Easy sliding calipers designed to mold and duplicate any form: pipes, columns, tubing, regular and irregular walls, baseboards, crown molding, door and window framework. For use on applications such as tile, wood, wood derivatives, composite, porcelain, ceramic, vinyl, flooring for easy tracing, fitting and installation. No guesswork, no patch jobs, less waste!

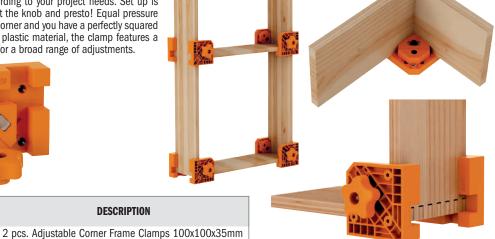
**CDG-001** 



## Adjustable Corner Frame Clamps

CMT Adjustable Corner Frame Clamps will easily create the perfect 90° angle or handy T-joints typical in shelving, cabinets and frame applications using boards of variable thicknesses from 6 to 25.4mm. These clamps allow you to work independently, and above all, hands-free so you can glue, dry-fit, nail, screw, or square your joint securely and accurately – just like a professional. The special design allows you to immobilize the panels from the inside (hex key) and from the outside (knob) according to your project needs. Set up is easy as 1-2-3: position the clamp, twist the knob and presto! Equal pressure is instantly applied on each side of the corner and you have a perfectly squared 90° joint! Made of sturdy and durable plastic material, the clamp features a double graduated scale in mm/inches for a broad range of adjustments.







### Ideal for miter saws and table saws. Precisely sets saw blade bevel angles.



- · Large display for easy digital reading.
- Measurements in absolute or relative mode.
- Angles displayed in degrees.
- Automatic digit inversion for overhead measurements.
- · Magnetic base.
- · Carry Case included.
- Instruction manual.

**ABS Mode** 

300

ORDER NO.	DESCRIPTION
DAG-001	Digital Angle Gauge



**ABS Mode** 

45°

1 Front moveable metal arm.

3. LCD display.

4. Locking knob.

- 5. Bubble level.

Fixed aluminium arm.

Range

0~360°

### **TECHNICAL DETAILS:**

- Range:	±90°x 4
- Resolution:	0.1°
	. 0 40/00 000)

- Accuracy: .....±0.1°(0°-90°); ±0.2°
- Battery: .....Not Included
- Battery Type: ......AAA-1.5V; Alkaline
- Dimensions: ......2-3/8" x 2-3/8" x 1-1/8" (60 x 60 x 28mm)

Relative

Measuring Mode

0.01



Relative

Measuring Mode

Resolution

0.05



Horizontal Plane

ABS Mode

O.D°

## Digital Angle Finder



✓ Compliant with: ANSI/US 4200A-2023

This digital angle finder is a multi-functional tool for many measuring applications. Easy to operate, the base unit carries the electronics featuring clear detailed LCD display, a pair of levelling vials and a pivoting measuring arm. When the arm is extended, the angle created with the base is indicated clearly on digital read-out to the nearest 0.05°. The measuring range is 0 - 360°.

The vials allow both vertical and horizontal variations to be accurately measured. Other features include a lock function to prevent the last measurement being lost, a low battery indicator and automatic shut off function. Robust yet lightweight, this tool is ver

ORDER NO.	DESCRIPTION	
DAF-001	Digital Angle Finder	

Watch the video on





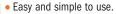


Accuracy

±0.15°







- Calculates angles in seconds.
- Large detailed LCD display.
- Robust, lightweight aluminium construction.
- Instruction manual.

### TECHNICAL DETAILS:

- Range:	0-360°
- Resolution:	0.05°
- Accuracy:	±0.15°
- Battery:	Not Includ

Battery Type: ... CR2032-3V; Lithium Button Cell

- Dimensions: .... 10-1/2" x 2" x 1" (268 x 50 x 25mm)



### • Digital height gauge (mm/inch/fraction).

### Precise measurements for: Router bits, Saw blades, Band saw blades, Cutter heads, Drill bits, Holes depth.

- Measuring ruler with locking screw.
- Self standing with magnets.
- Depht pin to measure narrow holes or channels.
- Instruction manual.



✓Compliant with: ANSI/US 4200A-2023

### **TECHNICAL DETAILS:**

- Measuring range:	0~3-1/8" (0~80mm)
- Depht pin:	0~2" (0~52mm)
- Wide opening:	2.35" (60mm)
- Resolution:	0.002" (0.05mm)
- Accuracy:	±0.004" (±0.1mm)
- Battery:	Not Included

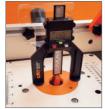
- Battery Type: .....CR2032-3V; Lithium Button Cell

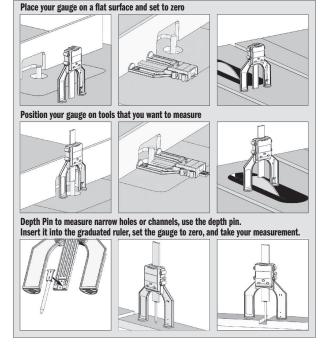
ORDER NO.	8	DESCRIPTION	
DHG-001	10	Digital height gauge	

## **DHG-001**









## Digital Moisture Meter



- Measures moisture content by detecting a material's electrical resistivity using two pins.
- Measurement output is displayed on a practical LCD screen
- Instruction manual.



Ideal for use in woodworking, building construction and agricultural industries. The **DMM-001** is also an invaluable tool in the restoration field. Ideal for locating moisture in carpets and subflooring.

Ultra-sensitive Digital Moisture Meter easily detects hidden leaks in wood, concrete, plaster and carpet.

Providing accurate moisture level readings make this tool great for new home inspections, locating roof leaks or even selecting dry lumber at the yard.

Display will show the moisture content in Percent Moisture Content directly.

### **TECHNICAL DETAILS:**

- Working temperature: ..........32°F~122°F - Working humidity: .....<90%RH non-condensing - Storage: .......4°F~140°F ≤85% (without battery)

**Calibration holes** 



How to calibrate

**DMM-001** 

ORDER NO.	8	DESCRIPTION
DMM-001	5	Digital Moisture Meter

Spare parts DMM-001/1 Set 2 Pin for DMM-001



## **DMS-001**



ORDER NO.	DESCRIPTION	
DMS-001	3-piece Measurament Pack	
Set contains:		
DAF-001	Digital Angle Finder	
DHG-001	Digital height gauge	
DAG-001	Digital Angle Gauge	







A very useful hand tool for clean, splinter-free cuts on laminates and veneer with no waste. Place your material into the fence provided and have the cutter run along the edge of the panel. The two opposing steel-made circular cutting blades mounted on roller bearings will trace the cutting line. Use the micrometer knob on the top of the tool to set the cutting thickness, or adjust the strip width by using the metric/inch scale provided. Loosen the lock knob on the scale, move the metal bracket which holds the fence and tighten the lock knob again on the desired cutting width.

**DET-003** 

TECHNICAL FEATURES:

- Cutting width: 15/32" ~ 4-21/64".

- Cutting depth: 0 ~ 5/64".

- Weight: 2.65 lbs.

ORDER NO. DESCRIPTION

DET-003 Laminate/Veneered cutter

Spare parts: DET-003K Pair of cutters right-left for DET-003



An indispensable tool for easy and safe end trimming after edge banding. Position the tool on the banding, press the handle down to operate the blade in a shearing action. The cutting knives are interchangeable, so when the cutting knife becomes dull, you can simply replace it with the anvil knife and double the lifespain. For cutting banding up to 1/64" thick with a maximum cutting width of 2-1/8". This tool can also be paired up with our double edge trimmer DET-001. We recommend using our edge banding end trimmer DET-002 before using our double-edge trimmer DET-001.

ORDER NO.	DESCRIPTION
DET-002	Edge Banding End Trimmer

Spare parts: DET-002K 2-Pcs replacement blade set 55x13x1.5mm

## Double-Edge Trimmer



Attach this trimmer to your workpiece, press both ends against the board for a cutting range between 13mm (1/2") and 25mm (1"), move the trimmer in the correct direction indicated by the arrow. This will cut on both sides easily. The first cutter will cut straight, the second one can be adjusted for a tapering cut. Both cutters are made from high-quality hardened steel and can be easily replaced when worn out.

ORDER NO.	DESCRIPTION	
DET-001	<b>001</b> Double-Edge Trimmer	

Spare parts: DET-001K Spare knives for double-edge trimmer

**DET-001** 

## Interchangeable Torque Wrench 20~200 Nm



The Interchangeable Torque Wrench comes complete with a sturdy protective case to store and keep tools safe, an instruction manual, and calibration certification(unique for each instrument) according to DIN ISO 6789 & ASME B107.300-2010.

**TW-200** 





ORDER NO.	S mm	8	DESCRIPTION
TW-200	14x18	12	Interchangeable Torque Wrench 20~200 Nm
TW-2836	14x18	1	Hook Head Insert Ø=28-36mm (ER16 & ER20)
TW-4045	14x18	1	Hook Head Insert Ø=40-45mm (ER25)
TW-5055	14x18	1	Hook Head Insert Ø=50-55mm (ER32)
TW-5862	14x18	1	Hook Head Insert Ø=58-62mm (ER40 & EOC25)
TW-8001	14x18	1	Hook Head Insert Ø=80mm (Kinetic Dust Extractor 992)
TW-1001	14x18	1	Hook Head Insert Ø=100mm (Kinetic Dust Extractor 992)
TW-A095	14x18	5	Push Ratchet Insert S2=3/8"
TW-A127	14x18	5	Push Ratchet Insert S2=1/2"
TW-A912	14x18	50	Adapter Insert S2=9x12mm



To download this user manual in a different language, visit www.cmtorangetools.com

### **Applications**



The Interchangeable Torque Wrench is versatile enough for use in many fields, but we recommend it for the tightening of CMT chucks.

### **TECHNICAL DETAILS:**

- Range......20~200 Nm (10-150 lbf-ft)
- Resolution ...... 1 Nm
- Tolerance.....±4%
- Length......500mm (19.7")
- Weight......1.15Kg. (40.6oz)
- Automatic quick-release, audible and palpable click, when selected torque is reached
- Right-handed (CW)

### **TORQUE SUGGESTED\***

CHUCK/COLLET	Nm	Lbf-ft
ER16	57	42
ER20	80	59
ER25	104	77
ER32	135	100
ER40	176	130
E0C25	122	90

\* Suggested tightening torque for CMT Chuck/Collet

#### Adjustable Torque Screwdriver Set 1~6 Nm



The Adjustable Torque Screwdriver set includes 20 types of inserts and provides a sturdy protective case to store and keep tools safe. In addition to the instruction manual, inside you'll find the calibration certificate (unique for each instrument) according to DIN ISO 6789 & ASME B107.300-2010.

**TW-006** 



#### **TECHNICAL DETAILS:**

-	nalige	T. O MIII
-	Resolution	0.1 Nm
-	Tolerance	±6%
-	Length	195mm (7.7")
_	Weight	335gr. (11.8oz)

- Automatic quick-release, audible and palpable click, when selected torque is reached
- Automatic reset after 90°
- Right-handed (CW)

#### **Set contains**

- Torque screwdriver
- Plastic case
- 20 types of inserts:
- Instruction manualCalibration certificate

0-1-2-3 (n°4 pcs)



8-9-15-20-25 (n°5 pcs)



3-4-5-6 (n°4 pcs)



1.5-2-3-4-5-6 (n°6 pcs)

+ Square Adaptor 1/4" (6.35mm), n°1 pc



ORDER NO.	8	DESCRIPTION
TW-006	24	Adjustable torque screwdriver set 1~6 Nm



To download this user manual in a different language, visit www.cmtorangetools.com

#### **Applications**





The Adjustable Torque Screwdriver is versatile enough for use in many fields, but we recommend it for the tightening or fastening of CMT bits and cutters heads with interchangeable knives.

Some CMT products may require the use of an extension, which is not included in the TW-006 set.

#### **TORQUE SUGGESTED\***

THREAD	Nm
M2,5	1,0
M3	1,2
1/8"	1,4
M3,5	1,8
M4	2,7
M5	5,3

\* Suggested tightening torque for CMT screws (Class 8.8)

#### FORMULA 2050 Blade & Bit Cleaner

## CMT ORANGE TOOLS

#### SAFE, EFFECTIVE AND ENVIRONMENTALLY FRIENDLY

Professional saw shops know that clean cutting edges run cooler, cut better and last longer. That's why we had several quality blade sharpening services test our **FORMULA 2050**. The results? In a word, "Phenomenal!" Most blade and bit cleaning products work with a dissolving action, using nasty, powerful chemicals to dissolve wood residues and adhesives. Our safe and non-toxic **FORMULA 2050** penetrates the microscopic cracks in the resin and attacks the bond between it and the carbide or steel surfaces. The resin releases its grip and you simply wipe it off. **FORMULA 2050** keeps your tooling clean and helps you increase the time between sharpenings and replacement. Satisfaction guaranteed!

ORDER NO.	DESCRIPTION
998.001.01*	18 oz. (532 ml.) spray bottle
998.001.03	1 gal. (3.78 l) plastic jug
998.001.04	5 gal. (18.9 l) plastic bucket

<sup>\*12</sup> bottles minimum and multiple



#### $\bigstar \bigstar \bigstar \star$ This product received a five-star performance rating from "Wood Magazine $^{\circ}$ "

- Removes pitch, resin, and other sticky residues from all wood cutting tools (circular saw blades, router bits, drill bits, knives, planer blades, etc.).
- Spray on tool surface and allow to soak in for a few minutes. Wipe clean with a cloth, rag or sponge.
- No rinsing required after cleaning, because protects against rust and corrosion, preventing rust formation even on saw table surfaces.
- Prolonged use may cause damage to special coating treatments applied to aluminium tool surfaces. Use with caution.

#### **Organizers**

#### Hold up to 100 bits!

When you're working on a project you need your tools organized and close at hand. CMT's Bit Organizer is the perfect solution. This handy molded tray conveniently holds up to 100 router, drill or boring bits. By using our interchangeable bushings, the Organizer will accept any shank diameter. Order bushings from the chart below.

03.51



ORDER NO.	DESCRIPTION
03.51.0106	Bit organizer (without bushings)
03.51.0047A	Interchangeable bushings for 1/4" shanks (20 pieces)
03.51.0057A	Interchangeable bushings for 3/8" shanks (20 pieces)
03.51.0058A	Interchangeable bushings for 10mm shanks (20 pieces)
03.51.0049A	Interchangeable bushings for 1/2" shanks (20 pieces)

#### Bench Block Set



These blocks are great for holding your workpiece without any clamps. Their anti-slip surface grips both your bench top and the underside of your workpiece. Raise your work above the bench and benefit from the clearance it provides for your router bits, cutters, etc.

Length: 3" - Width: 2" - Height: 1"



ORDER NO.	DESCRIPTION
BBS-001	Bench Block Set (4pcs.) 3"x2"x1"



#### Carpenter Pencil & Ink Pen

An easy-grip shape and larger rectangular surface area means this pencil won't roll away or slip from your hands. The non-round core makes highly legible thick or thin lines.

Perfect for high precision tracing and marking vir-

tually any surface. Easy to erase. Strong break-resistance lead center withstands rough handling as well as the rigours and extreme conditions of the construction environment.

www.cmtoranget	PCL-1
www.cmtorangetools.com	Nge 2
WWW.cmtorangetools.com CMT 700	0 9525 941 04 5
WWW.cmtoranger	

ORDER NO.	8	DESCRIPTION	
PCL-1	50	Carpenter Pencil	
PCL-2 50		CMT Ink Pen	

A classic black ink pen with great features: ball point style for smooth fluid writing on the job, even on an angle, easy click open and close, sturdy metal pocket clip to keep it in place and our bright orange colour for better visibility.





#### Latex Coated Gloves

These protective gloves are not only comfortable but offer high elasticity, impressive grip as well as good resistance to abrasion, perforation and tears. CE Certified and Mechanical Hazards EN 388:2016 compliant (2132X). Available in three sizes!





ORDER NO.	8	DESCRIPTION
GLA-08M	25	Latex coated gloves M (8)
GLA-09L	25	Latex coated gloves L (9)
GLA-10XL	25	Latex coated gloves XL (10)

#### CMT Professional Tool Bag

- Top zipped design and wide opening for accessing tools easily.
- Sturdy material and hard rubber bottom are resistant to rough handling and protects the contents from hard falls.
- 6 interior pockets, 12 exterior pockets.
- Ideal for storing and transporting hand tools as well as other medium sized items & accessories.

Material: Polyester 600D with 3mm EPE foam Dimensions: 400x200x250mm

ORDER NO.	8	DESCRIPTION
BAG-001	12	CMT Professional Tool Bag
and the same of th		
	10	





**BAG-001** 



## CUTTER HEADS, INSERT KNIVES & SPARE PARTS

PRODUCTS P	AGE
Rabbeting Cutter Heads with Shear Angle	328
Adjustable Grooving Cutter Heads Sets 329-	330
Adjustable Rounding & Chamfering Sets	331
45° Chamfer Cutter Heads	332
Multiradius Roundover Cutter Heads 333-	334
Multiradius Roundover & Cove Cutter Heads	335
Reverse Glue Joint Cutter Heads	336
45° Lock Miter Cutter Heads	337
Professional Finger Joint Cutter Heads	338
Professional Raised Panel Cutter Heads	339
Profile & Counter Profile Cutter Head Sets 340-	<b>341</b>
Rail & Stile Cutter Heads	342
Cutter Heads without Limiters	<u>343</u>
13-piece Multiprofile Cutter Heads without Limiters	<u>344</u>
40mm Profile Knives for the Insert Shaper System <b>345</b> ~	·354
50mm Profile Knives for the Insert Shaper System 355~	·357
Planer & Jointer Knives and Setting Jigs	358
Solid Carbide Insert Knives for Portable Planers <b>359~</b>	361

General Spare Parts & Accessoires 362~364























Supplied in a sturdy plastic carry case



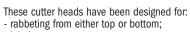












- jointing - grooving

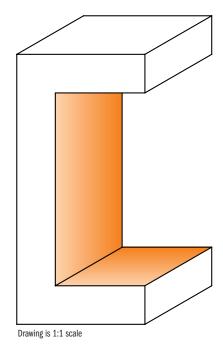
For use on spindle moulder machines, double-end tenoner and edging machines. Suitable for all materials, but best on chipboard, MDF, wood composites, plastic materials and laminates. Improved design with shear angle.

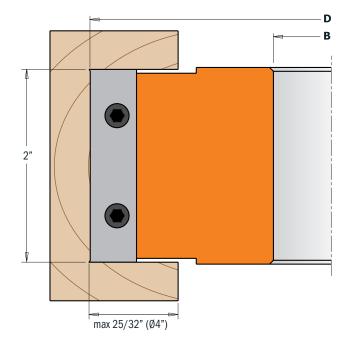
- Hard aluminum alloy body with high resistance to tensile and yield stress.
  2 universal Solid Carbide straight knives 50x12x1.5mm [T2], 1 up cut 1 down cut.
  4 universal Solid Carbide scoring knives 14x14x2mm [V4].
- Tools for manual feed (MAN).
- Pins for automatic positioning of the knives.

#### **SAFETY TIPS:**



The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).





ORDER NO.	A	D	)	E	3	RPM
ONDER NO.		inches	mm	inches	mm	
694.100.19	1	4	100	3/4	19.05	7500~12500
694.100.31	1	4	100	1-1/4	31.75	7500~12500

	-Spare parts							
	( <del>(</del> )			⊙ ⊙				
)	790.140.00*	990.093.00	991.073.00	790.500.00*	695.999.46	990.064.00	991.064.00	
)	790.140.00*	990.093.00	991.073.00	790.500.00*	695.999.46	990.064.00	991.064.00	

















These cutter heads are the ideal tools to create precision slots and grooves 5/32" to 19/32" in depth. These sets include:

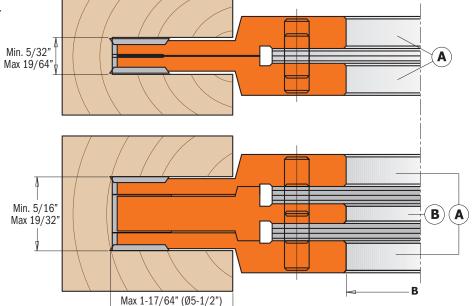
- 2 cutter heads type (A) [T4 + V4]
- 1 cutter head type (B) [T2]
- 12 spacer rings from 0.1 to 2mm

For use on spindle moulder machines, moulder, double-end tenoner and edging machines. Perfect grooving on all materials, but ideal on hardwood, plywood and laminated panels.

#### **TECHNICAL DETAILS:**

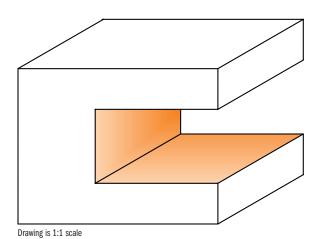
- Super-strength steel body.
- 2 Solid Carbide Knives 7.65x12x1.5mm [T2].
- 4 Solid Carbide Knives 18x18x1.95mm [T4].
- 4 Solid Carbide Knives 14x14x1.2mm [V4].
- Tools for manual feed (MAN).
- Pins for automatic positioning of the knives.

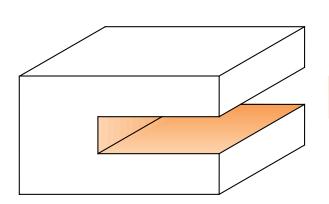






Supplied in a sturdy plastic carry case





D В ORDER NO. RPM inches inches 5500~9500 694.001.31 5-1/2 140 1-1/4 31.75

Spare parts (<del>(</del>) • (Ð) 790.140.10\* 790.076.00\* 695.998.22 790.181.00\*

Spare parts: For cutter heads (A)

990.079.00 M4x3.2mm TORX® screws

991.069.00 T9 TORX® key

695.996.02 M4 (Ø12x1.7mm) threaded ring 695.996.01 M4 (Ø10x1.6mm) threaded ring For cutter heads (B)

**695.999.07** 7x11x9.5mm wedge for knives

Max 1-3/8" (Ø6-19/64")

990.063.00 M5x18mm screw 991.072.00 T20 TORX® key





#### 694.021 - 694.022

These cutter heads are the perfect tools to create precision slots and grooves 9/16" to 1-35/64" in depth. This set includes:

- 1 cutter head type (A) [T2+V2] 1 cutter head type (B) [T2+V2]
- set of spacer rings.

For use on spindle moulder machines, moulders, double-end tenoners and edging machines. Perfect grooving on all materials, but ideal on hard wood, plywood and laminated panels.

The TW-006 Torque Screwdriver is recommended

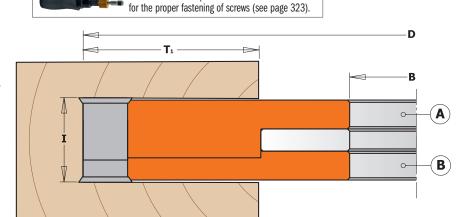
#### **TECHNICAL DETAILS:**

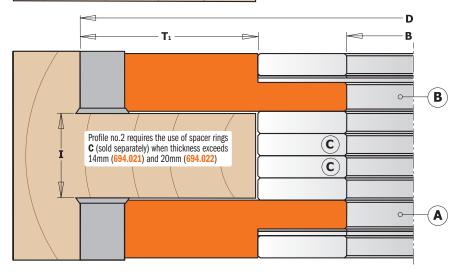
- Super-strength hard aluminum alloy body.
- 694.021: 8 Solid Carbide knives 13.6x13.6x2mm.
- 694.022: 4 Solid Carbide knives
  - 19.5x12x1.5mm.
    - 4 Solid Carbide knives 14x14x2mm.
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.

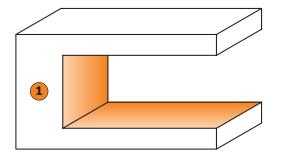


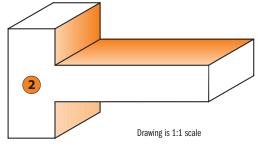
Supplied in a sturdy plastic carry case











									_ Spare parts _				
ORDER NO.	8	D inches	mm	inches	3 mm	l mm	T <sub>1</sub>	RPM	( <u>(</u> )	<b>(((</b>	<b>⊕</b>		
694.021.31	1	5-29/32	150	1-1/4	31.75	14-27	44	5000~8000	790.136.00*	990.093.00			695.998.42
694.022.31	1	6-45/64	170	1-1/4	31.75	20-39	54	4400~7400	790.140.00*	990.093.00	790.195.12*	990.094.00	695.998.47

Spare parts: 991.072.00 T20 TORX® key 991.073.00 T25 TORX® key

330

#### Adjustable Rounding & Chamfering Cutter Heads Sets (2 pcs.)





#### 694.005 The CMT adjustable rounding and chamfering set consists of two pieces for easy to set up on your











on material 18mm to 50mm in thickness. The improved design with shear angle guarantees perfect finishing! For use on spindle moulder machines.

#### **TECHNICAL DETAILS:**

- Hard aluminum alloy body with high resistance to tensile and yield stress.
- One pair of Solid Carbide top knives **(A)** radius 5/32" and 45° chamfer (20x20.5x2mm) [T2]. One pair of Solid Carbide bottom knives **(B)** radius 5/32" and 45° chamfer (20x20.5x2mm) [T2].

splindle moulder machine. Includes five different knives for rounding over top and bottom edges in one single pass with a radius of 5/64", 1/8", 5/32", 3/16" and 15/64" and for 45° chamfering

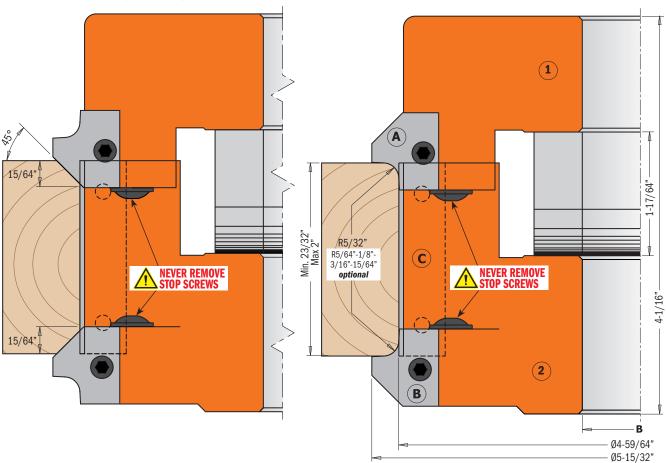
- Two Solid Carbide knives 50x12x1.5mm. Set of 21 spacer rings from 0.1 to 3mm
- Tools for manual feed (MAN)
- Pins for the automatic positioning of the knives.



Supplied in a sturdy plastic carry case

### **SAFETY TIPS:**

The TW-006 Torque Screwdriver is recommended for the proper fastening of screws (see page 323).



ORDER NO.	8	D		B		RPM
		inches	mm	inches	mm	
694.005.31	1	5-15/32	139	1-1/4	31.75	5500~9400

17x11x9.5mm 46x11x9.5mm 695.999.17 695.999.46

Spare parts 990.064.00 Optional: 695.005.A2 Pair of knives for roundover/chamfer (top) R=2+45°

695.005.A3 Pair of knives for roundover/chamfer (top) R=3+45°

Spare parts: 695.005.A4 Pair of knives for roundover/chamfer (top) R=4+45° 695.005.B4 Pair of knives for roundover/chamfer (bottom) R=4+45° **790.500.00** Knives 50x12x1.5mm

991.064.00 Hex key 4mm 991.067.00 Hex key 3mm 695.005.A5 Pair of knives for roundover/chamfer (top) R=5+45° 695.005.A6 Pair of knives for roundover/chamfer (top) R=6+45° 695.005.B2 Pair of knives for roundover/chamfer (bottom) R=2+45° 695.005.B3 Pair of knives for roundover/chamfer (bottom) R=3+45° 695.005.B5 Pair of knives for roundover/chamfer (bottom) R=5+45° 695.005.B6 Pair of knives for roundover/chamfer (bottom) R=6+45°

















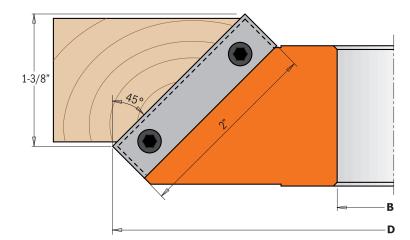
Supplied in a sturdy plastic carry case

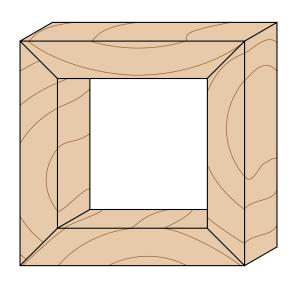
CMT chamfer cutter heads carry out clean accurate bevels and joints for excellent edge work. For use on spindle moulder machines, moulder, double-end tenoners, edge banding machines. Suitable for all materials, but ideal on hardwood, plywood and laminated panels.

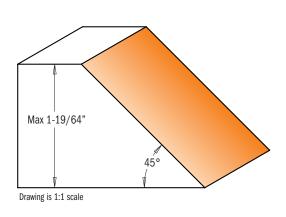
- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide Knives 50x12x15mm [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives



The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).







ORDER NO.	SA.	D		В		RPM
ONDER NO.		inches	mm	inches	mm	
694.002.31	1	5-29/32	150	1-1/4	31.75	5100~8800

_Spare parts			
⊕ ⊕			
790.500.00*	695.999.42	990.064.00	991.064.00







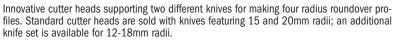
Supplied in a sturdy plastic carry case











For use on spindle moulder machines, moulder and shaping machines.

Suitable for all materials, but ideal on hard wood and wood panels.

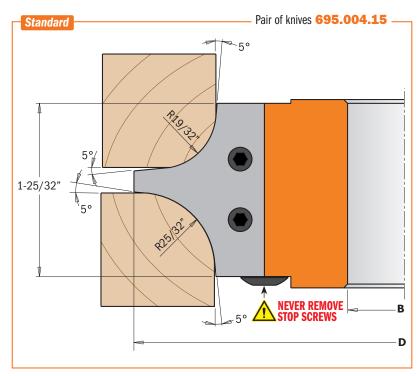
#### **TECHNICAL DETAILS:**

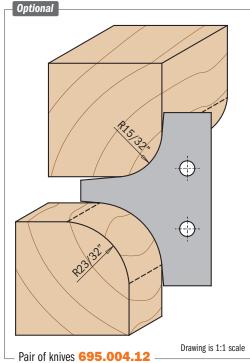
- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives radius 15/20mm (45x34.5x2mm) [T2].
   Tools for manual feed (MAN).

- Pins for the automatic positioning of the knives.



The TW-006 Torque Screwdriver is recommended for the proper fastening of screws (see page 323).





ORDER NO.	8	D		В	}	RPM
ORDER NO		inches	mm	inches	mm	
694.004.31	1	5-13/64	132	1-1/4	31.75	5700~9500

_ Spare parts			
* * X2			
695.004.15	695.999.42	990.064.00	991.064.00







Supplied in a sturdy plastic carry case









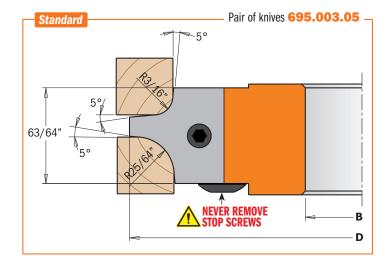
Innovative cutter heads featuring three different knives for making six radius roundover profiles. Standard cutter heads are sold with knives featuring 5 and 10mm radii; two more knife sets are available for making 4-8mm and 3-6mm radii. For use on spindle moulder machines, moulder machines and shaping machines.

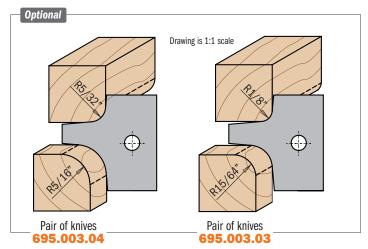
Suitable for all materials, but ideal on hard wood and panels.

#### **TECHNICAL DETAILS:**

- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives radius 5/10mm (25x24.8x2mm) [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.







ORDER NO.			mm	inches	mm	RPM	
694.003.31 <u>1</u>		4-29/64	113	1-1/4	31.75	6700~11000	

_Spare parts			
√ x2			
695.003.05	695.999.22	990.064.00	991.064.00

Optional: 695.003.04 Pair of profiled knives R=5/32" and 5/16" (25x24.8x2mm) 695.003.03 Pair of profiled knives R=1/8" and 15/64" (25x24.8x2mm)







Supplied in a sturdy plastic carry case





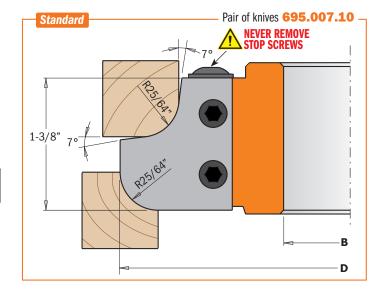




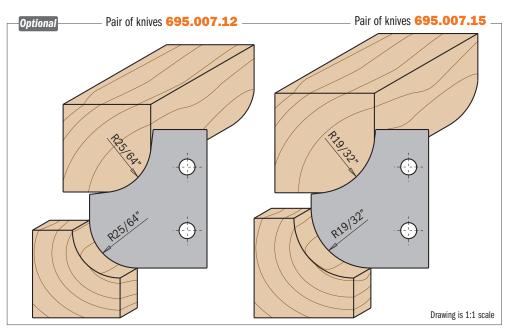
These cutter heads are perfect for making furniture, doors and drawer fronts simply and stylishly by applying a final touch with a CMT cove bit. It is also used for making perfect roundover profiles, drop leaf counters and table tops. You can use three different knives for carrying out roundover and cove profiles with radii 25/64", 15/32" and 19/32". For use on spindle moulder machines, moulder and shaping machines. Suitable for all materials, but ideal on solid wood and panel

#### **TECHNICAL DETAILS:**

- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives radius 25/64" (34.8x29.3x2mm) [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.







							Spare parts				
ORDER NO.		<b>D</b> inches	mm	inches	mm	RPM	*x2				
694.007.31	1	4-3/4	121	1-1/4	31.75	6300~10500	695.007.10	695.999.31	990.064.00	991.064.00	

Optional: 695.007.12 Pair of roundover/cove knives R=25/64" (34.8x29.3x2mm) 695.007.15 Pair of roundover/cove knives R=19/32" (34.8x29.3x2mm)















joints both quickly and accurately. Ideal for shaping panels, doors and furniture pieces of wide . Simply run one side of the panel, turn the panel over, and then run the opposite side. The result? Perfectly harmonized reverse cuts which match up to produce a flawless joint. Excellent for most

One of the unique characteristics of this CMT cutter head is its capacity to craft indestructible glue

materials, but ideal on hard wood, and wood panels. For spindle moulder machines and double-end tenoners.

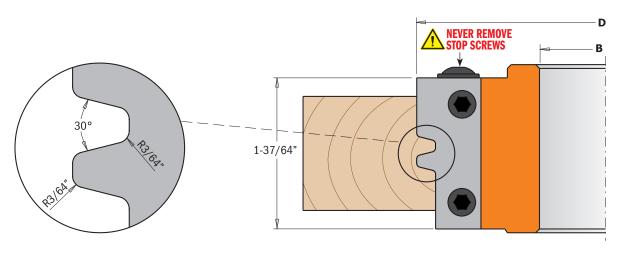
#### **TECHNICAL DETAILS:**

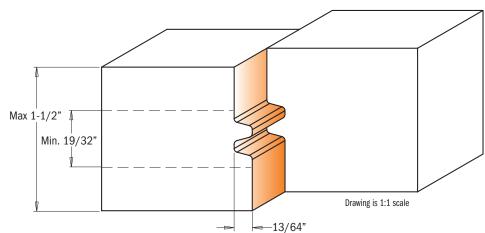
- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives 40x18x2mm [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.



Supplied in a sturdy plastic carry case







							_Spare parts			
ORDER NO.	8	inches	mm	inches	mm	RPM				
694.009.31	1	4	100	1-1/4	31.75	7500~12500	695.009.01	695.999.38	990.064.00	991.064.00















CMT's lock miter cutter heads are ideal for milling miter joints in stock a maximum of 28mm in thickness. Create boxes, stretcher bars, frames and any assortment of right angle (90°) or parallel joint projects. Two easy steps to produce perfect fitting  $45^{\circ}$  miter joints: first, position and mill your workpiece horizontally, then vertically.

Create parallel glue joints in two steps: position and mill your workpiece horizontally, internal side facing down, and then turn it facing up. For use on spindle moulder machines and shaper machines. Perfect on all materials, but ideal on solid wood and panels.

#### **TECHNICAL DETAILS:**

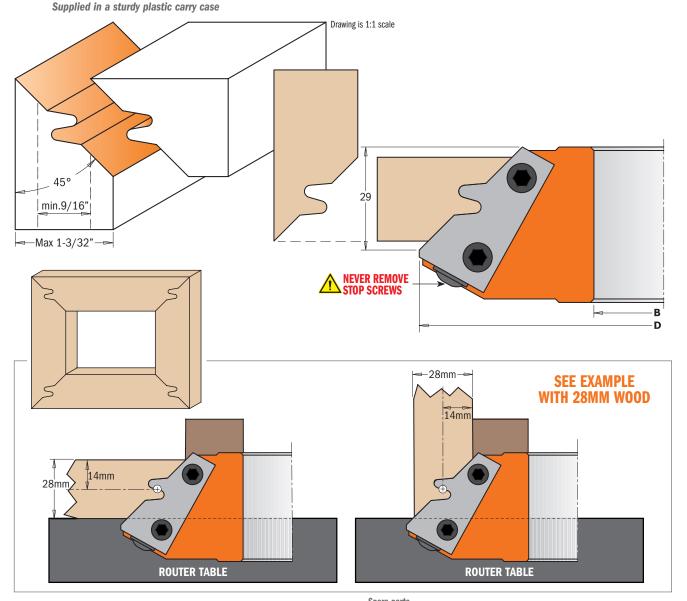
- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives 43x23x2mm [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.



**SAFETY TIPS:** 

The **TW-006** Torque Screwdriver is recommended

for the proper fastening of screws (see page 323).



ORDER NO.		<b>D</b> inches	mm	inches	mm	RPM	spare partsX2			
694.011.31	1	5-1/2	140	1-1/4	31.75	5500~9500	695.011.01	695.999.42	990.064.00	991.064.00







Supplied in a sturdy plastic carry case









The CMT professional finger joint cutter head makes the strongest side-to-side joints on all wood types and composites. The tightness of the joint and the maximum surface area for glue application ensure that the joint itself is stronger than an unworked piece of wood. Maximum thickness 47mm.

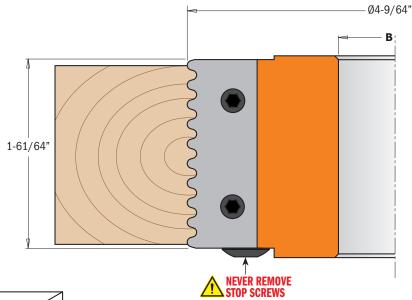
For use on spindle moulder machines. Perfect for moulding and furniture specialists. Suitable for all materials, but ideal on hard wood and wood panels.

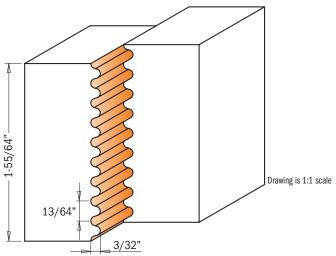
#### **TECHNICAL DETAILS:**

- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives 49.6x11.9x1.5mm [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.



The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).





ORDER NO.	A	D		В	3	RPM	
		inches	mm	inches	mm	IXT WI	
694.008.31	1	4-9/64	105	1-1/4	31.75	7300~11500	

_Spare parts			
***x2			
695.008.01	695.999.49	990.066.00	991.067.00

Optional: 695.998.2631 Guide ring with bore 1-1/4"







Supplied in a sturdy plastic carry case









We offer a traditional approach to panel construction with these CMT raised panel cutter heads. Engineered using the most sophisticated technology, it represents a key element in the artisans' workshop. Create classic raised panels on furniture, interior and cabinet doors on

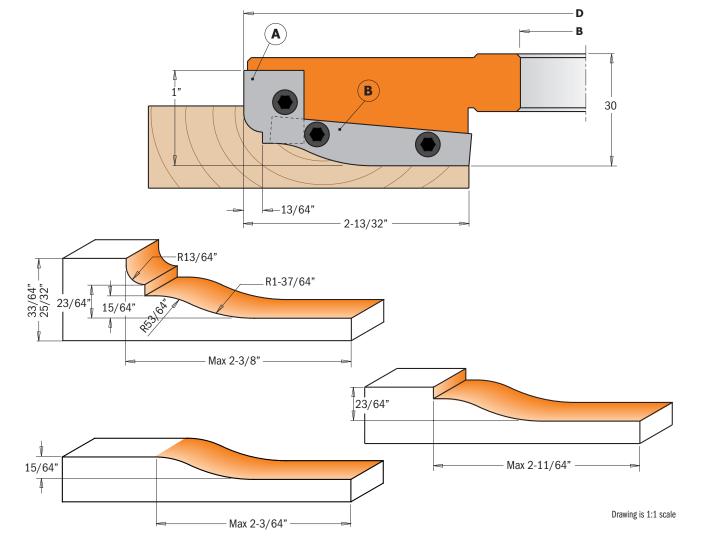
#### wood and panels. **TECHNICAL DETAILS:**

- Hard aluminum alloy body with high resistance to tensile and yield stress.
- 2 Solid Carbide Knives type (A) 19.8x11.9x1.5mm [T2].
- 2 Solid Carbide Knives type (B) 60x11.9x1.5mm [T2].
- Tools for manual feed (MAN).

solid wood and wooden boards, and achieve three different profiles by adjusting the cutting depth. We recommend multiple passes for safe and accurate finishing. For use on spindle moulders, moulders, and double-end tenoners. Perfect for all materials, but ideal on hard

- Pins for the automatic positioning of the knives.





							_Spare parts _				
ORDER NO.	8	D inches	mm	inches B	mm	RPM		16x11x9,5mm	◆ → x2	53x11x9,5mm	
694.013.31	1	7-13/64	183	1-1/4	31.75	4100~7000	695.013.A1	695.999.16	695.013.A2	695.999.53	990.066.00

Spare parts: 991.083.00 Hex key 3x90x135mm

#### Profile & Counter Profile Cutter Head Sets















694.015

These versatile sets were designed to make furniture and doors on soft and hardwood. It allows the insertion of five different knives to produce the most popular and classical profiles. The adjustable cutter, included in the set, can also be used individually to carry out grooves between 8mm 15mm. For use on spindle moulders and moulder machines. Perfect on hard wood and panels maximum 22 - 25mm in thickness.

#### **TECHNICAL DETAILS:**

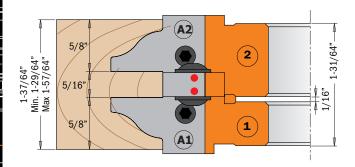
- Hard aluminum alloy body with high resistance to tensile and yield stress for cutter heads (1 & 2).
- Super-strength steel body for cutter head (3).
- 2 Solid Carbide knives type (A1) 25x29.8x2mm [T2].
- 2 Solid Carbide knives type (A2) 25x29.8x2mm [T2].
- 4 Solid Carbide knives 7.65x12x1.5mm [T4].
- 4 Solid Carbide knives 14x14x2m for heads type (1 & 2).
- 12 spacer rings from 0.1 to 3mm for heads type (1 & 2).
- 12 spacer rings from 0.1 to 2mm for heads type (3).
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.

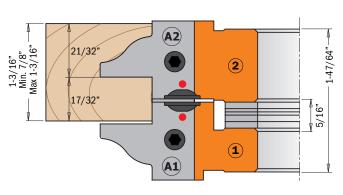


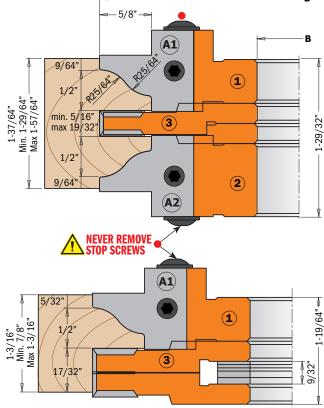
Supplied in a sturdy plastic carry case



The TW-006 Torque Screwdriver is recommended for the proper fastening of screws (see page 323).







ORDER NO.		<b>D</b> inches	mm	inches	ß mm	RPM
694.015.31	1	5-13/64	132	1-1/4	31.75	5700~9500

Spare parts		_ Optional
		10.6
695.998.02	695.998.22	695.998.31

#### Spare parts:

#### Head type (1)

695.015.A1 Pair of knives solid carbide (A1) 25x29.8x2mm 695.015.B1 Pair of knives solid carbide (B1) 25x29.8x2mm **695.015.C1** Pair of knives solid carbide (C1) 25x29.8x2mm

695.015.D1 Pair of knives solid carbide (D1) 25x29.8x2mm 695.015.E1 Pair of knives solid carbide (E1) 25x29.8x2mm 695.999.23 Wedge for knives 23x11x9.5mm

990.066.00 Screw M6x16mm 991.067.00 Hex key 3mm

#### Head type (2)

695.015.A2 Pair of knives solid carbide (A2) 25x29.8x2mm 695.015.B2 Pair of knives solid carbide (B2) 25x29.8x2mm 695.015.C2 Pair of knives solid carbide (C2) 25x29.8x2mm 695.015.D2 Pair of knives solid carbide (D2) 25x29.8x2mm 695.015.E2 Pair of knives solid carbide (E2) 25x29.8x2mm

695.999.24 Wedge for knives 23x11x9.5mm

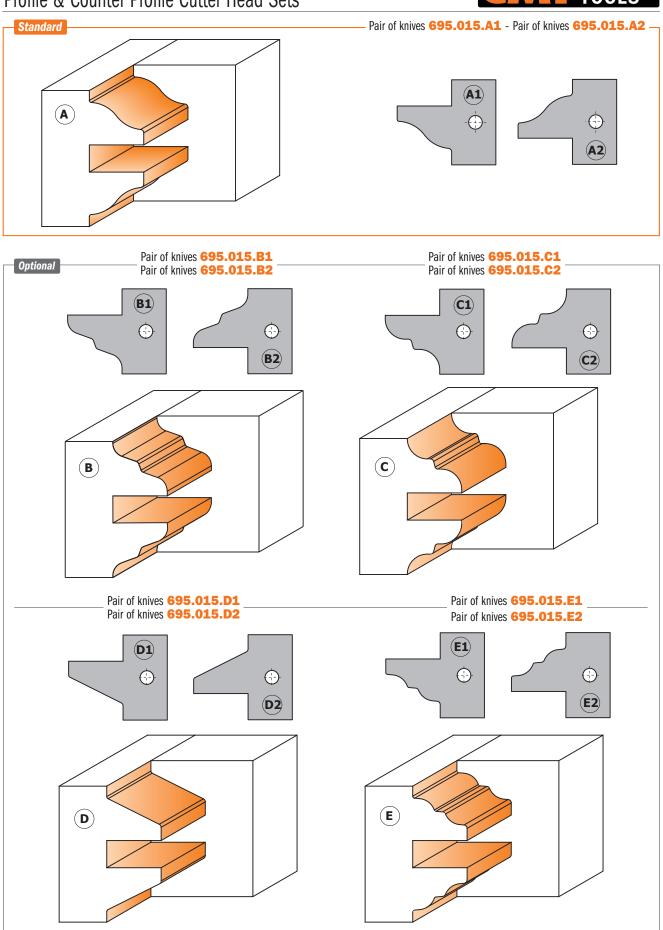
990.066.00 Screw M6x16mm 991.067.00 Hex key 3mm

#### Head type (3)

790.076.00\* Solid carbide knives 7.65x12x1.5mm 695.999.07 Wedge for knives 6.8x11x9.5mm **990.063.00** Screw M5x18mm 991.072.00 Hex key T20 Hex key 790.140.00\* Solid carbide Knives 14x14x2mm

990.080.00 Screw M5x6,5mm **991.073.00** Hex key T25





















Supplied in a sturdy plastic carry case

**TECHNICAL DETAILS:** 

hardwood and panels between 22mm-25mm in thickness.

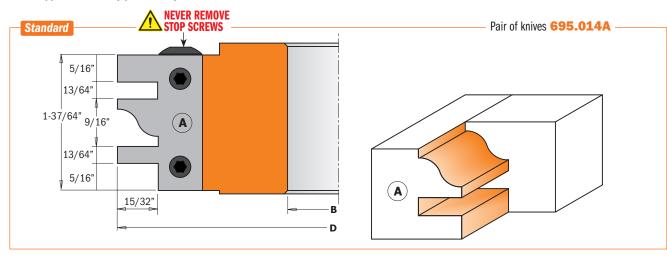
- Hard aluminum alloy body with high resistance to tensile and yield stress.
   2 Solid Carbide knives type (A) 40x24.5x2mm [T2].
- Tools for manual feed (MAN).
- Pins for the automatic positioning of the knives.

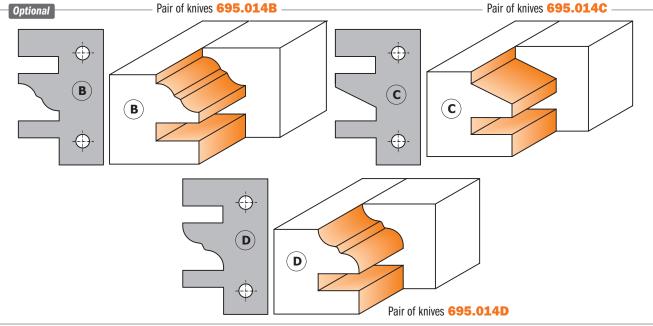




The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).

drawers. By adjusting the height of the of the cutter head, you can cut two perfectly fitted profiles without wasting time or effort on the fence or replacing the tool. Improve your efficiency and save money only having to purchase one single cutter head!!! For use on spindle moulders. Perfect on





ORDER NO.		<b>D</b> inches	mm	inches B	mm	RPM	√√√x2			
694.014.31	1	4-23/32	120	1-1/4	31.75	6400~10500	695.014A	695.999.39	990.066.00	991.067.00

**Optional: 695.014B** Pair of knives type (B) 40x24.5x2mm 695.014C Pair of knives type (C) 40x24.5x2mm

695.014D Pair of knives type (D) 40x24.5x2mm

#### **Cutter Heads without Limiters**





#### 692

CMT cutter heads guarantee excellent performance for all your projects. For use on all types of moulder and spindle moulder machines, profiler and edging machines.

#### **TECHNICAL DETAILS:**

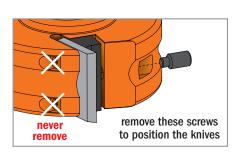
- Hard aluminum or steel alloy cutter head without limiters, highly resistant to tensile and yield stress.
- Pair of universal straight knives included.
- Tools for mechanical feed (MEC).
- Pins for the automatic positioning of the knives.
- Possibility to use knives with a height of 40mm or 50mm (order no. 690).

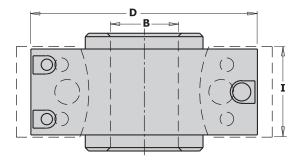


Supplied in a sturdy plastic carry case. Contains 12 pairs of knives.

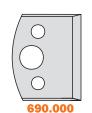


The **TW-006** Torque Screwdriver is recommended for the proper fastening of screws (see page 323).





Pair of bore reducers from 1-1/4" to 30mm

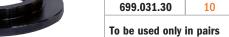


ORDER NO. Aluminum body	8	<b>D</b> inches	<b>B</b> inches mm		l inches	RPM
692.078.19	1	3-1/8	3/4	19.05	37/64	7000~9000
692.100.26	1	4	1	25.4	37/64 or 1-31/32	5500~8400
692.100.31	1	4	1-1/4	31.75	37/64 or 1-31/32	5500~8400

Spare parts		
692.999.01	990.064.00	991.064.00
692.999.01	990.064.00	991.064.00
692.999.01	990.064.00	991.064.00

#### Pair of Bore Reducers





#### 13-piece Multiprofile Cutter Head Sets without Limiters

















Supplied in a sturdy plastic carry case

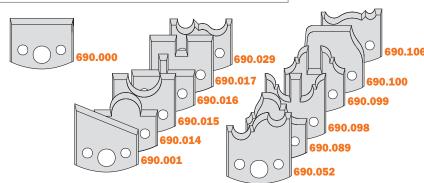
#### 692

This set is ideal for making joints and frames and include 3 essential profiles specifically for creating cabinet doors. An invaluable asset for any professional woodworker. The cutter heads included allow the insertion of knives at a height of either 40mm or 50mm. Both cutter head and knives are packaged in a sturdy plastic case to prevent damage.

#### These sets include:

- 1 cutter head in hard aluminum alloy with pins for the automatic positioning of the knives.
- 13 pairs of knives with a cutting height of 40mm





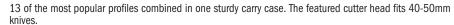
ORDER NO.	8	<b>D</b> inches	inches	<b>B</b> mm	I inches	RPM	Spare par
692.013.09	1	3-1/8	3/4	19.05	1-37/64	7000~9000	692.999
692.013.10	1	4	1	25.4	1-37/64	5500~8400	692.999
692.013.11	1	4	1-1/4	31.75	1-37/64	5500~8400	692.999

	Spare parts		
1	692.999.01	990.064.00	991.064.00
l	692.999.01	990.064.00	991.064.00
l	692.999.01	990.064.00	991.064.00





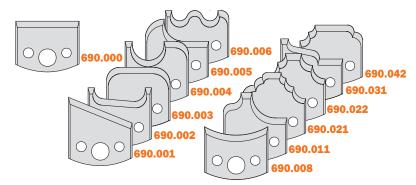
Supplied in a sturdy plastic carry case



#### These sets include:

- 1 cutter head in hard aluminum alloy with pins for the automatic positioning of the knives.
- 13 pairs of knives with a cutting height of 40mm.





							- Spare parts		
ORDER NO.	8	<b>D</b> inches	inches	B mm	inches	RPM			
692.013.12	1	3-1/8	3/4	19.05	1-37/64	7000~9000	692.999.01	990.064.00	991.064.00
692.013.13	1	4	1	25.4	1-37/64	5500~8400	692.999.01	990.064.00	991.064.00
692.013.14	1	4	1-1/4	31.75	1-37/64	5500~8400	692.999.01	990.064.00	991.064.00

Pack Qty. 10

































Note: all knives available only in pairs Drawings are 1:2 scale

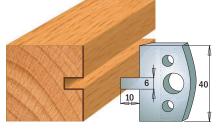
Dimension in mm.

Pack Qty. 10

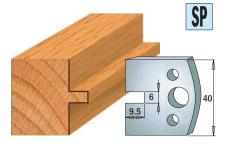




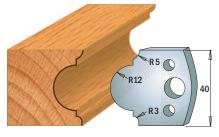
Pair of knives 690.015



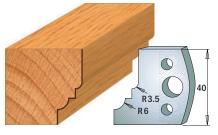
Pair of knives 690.016



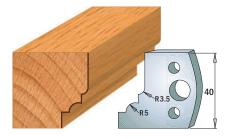
Pair of knives 690.017



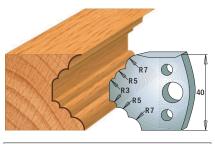
690.018 Pair of knives



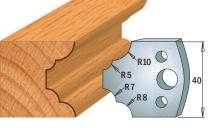
Pair of knives 690.019



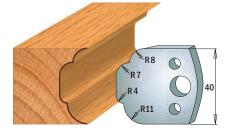
690.020 Pair of knives



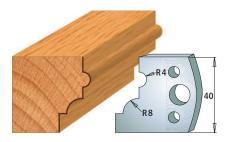
Pair of knives 690.021



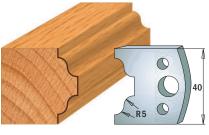
Pair of knives 690.022



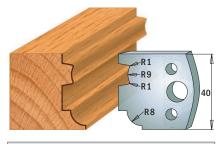
Pair of knives 690.023



Pair of knives 690.024



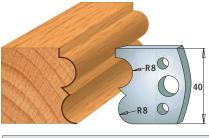
Pair of knives 690.025



Pair of knives 690.026



690.027 Pair of knives



Pair of knives 690.028



Pair of knives 690.029

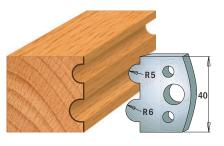
Note: all knives available only in pairs

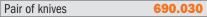
Drawings are 1:2 scale

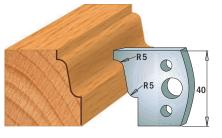
Dimension in mm.

Pack Qty. 10

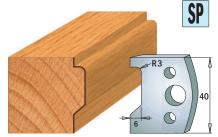




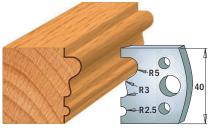




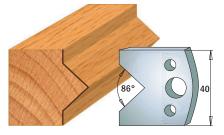
Pair of knives 690.031



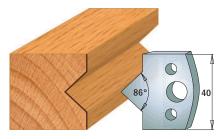
Pair of knives 690.032



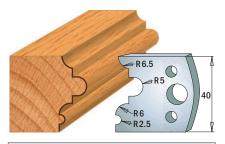
690.033 Pair of knives



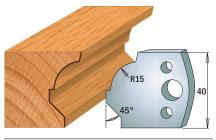
Pair of knives 690.034



690.035 Pair of knives



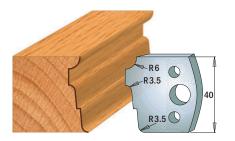
Pair of knives 690.036



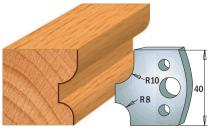
Pair of knives 690.037



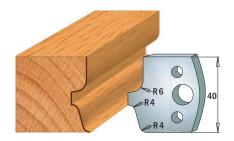
690.038 Pair of knives



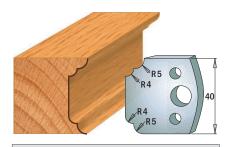
Pair of knives 690.039



Pair of knives 690.040

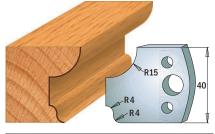


690.041 Pair of knives

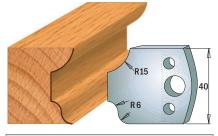


Pair of knives 690.042

Note: all knives available only in pairs



Pair of knives 690.043



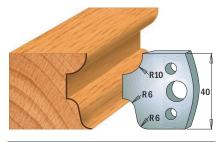
Pair of knives 690.044

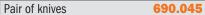
Drawings are 1:2 scale

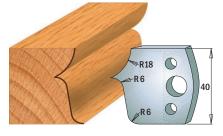
Dimension in mm.

Pack Qty. 10

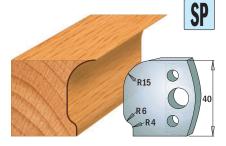




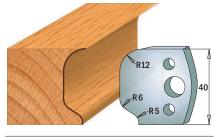




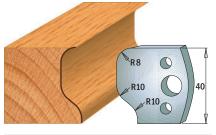
Pair of knives 690.046



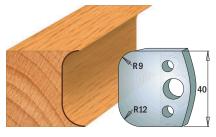
Pair of knives 690.047



Pair of knives 690.048



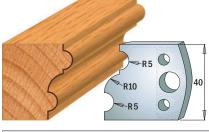
Pair of knives 690.049



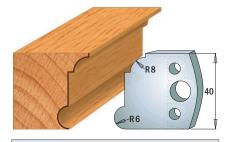
Pair of knives 690.050



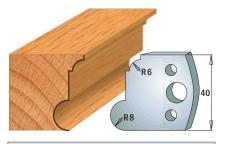
690.051 Pair of knives



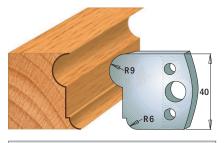
Pair of knives 690.052



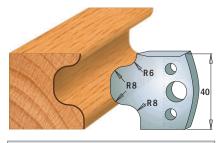
690.053 Pair of knives



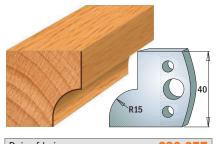
Pair of knives 690.054



Pair of knives 690.055

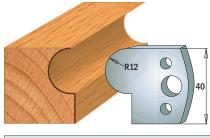


Pair of knives 690.056

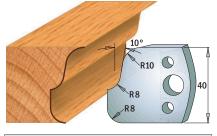


690.057 Pair of knives

Note: all knives available only in pairs



Pair of knives 690.058



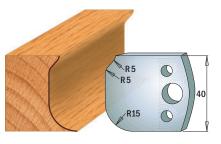
Pair of knives 690.059

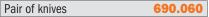
Drawings are 1:2 scale

Dimension in mm.

Pack Qty. 10

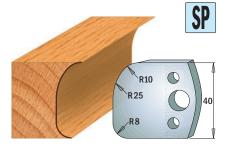




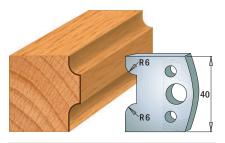




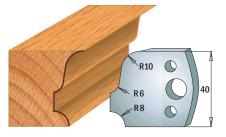
Pair of knives 690.061



Pair of knives 690.062



690.063 Pair of knives



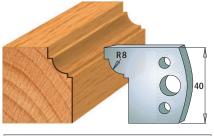
Pair of knives 690.064



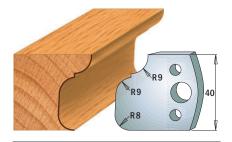
690.065 Pair of knives



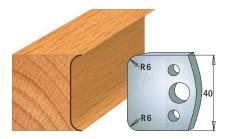
Pair of knives 690.066



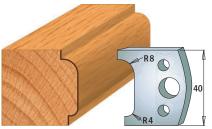
Pair of knives 690.067



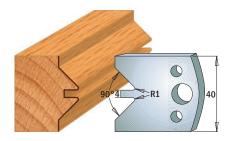
Pair of knives 690.068



Pair of knives 690.069



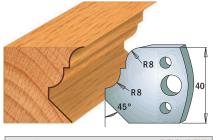
Pair of knives 690.070



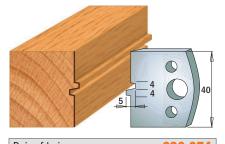
Pair of knives 690.071



690.072 Pair of knives



Pair of knives 690.073



Pair of knives 690.074

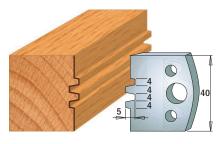
Note: all knives available only in pairs

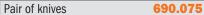
Drawings are 1:2 scale

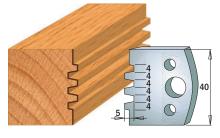
Dimension in mm.

Pack Qty. 10

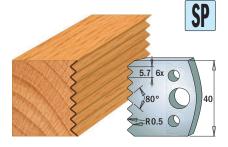




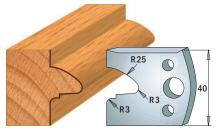




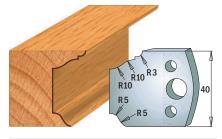
Pair of knives 690.076



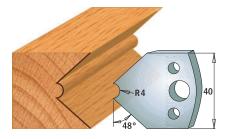
Pair of knives 690.077



690.078 Pair of knives



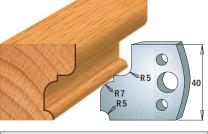
Pair of knives 690.079



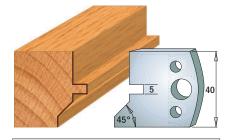
690.080 Pair of knives



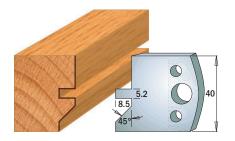
690.081 Pair of knives



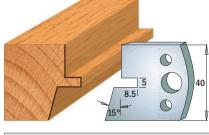
690.082 Pair of knives



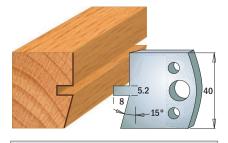
Pair of knives 690.083



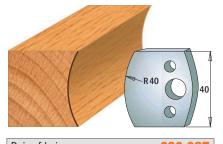
Pair of knives 690.084



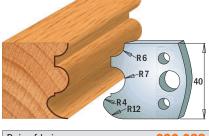
Pair of knives 690.085



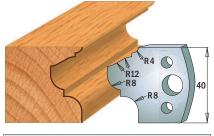
Pair of knives 690.086



Pair of knives 690.087



Pair of knives 690.088



Pair of knives 690.089

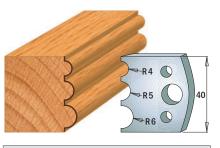
Note: all knives available only in pairs

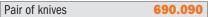
Drawings are 1:2 scale

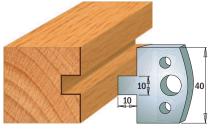
Dimension in mm.

Pack Qty. 10

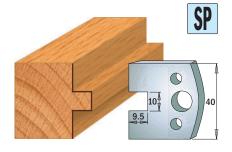








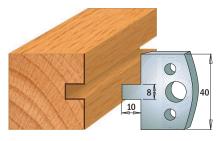
Pair of knives 690.091



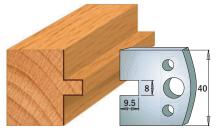
Pair of knives 690.092



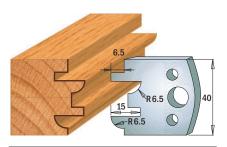
Pair of knives 690.093



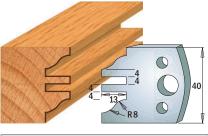
Pair of knives 690.094



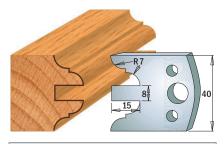
690.095 Pair of knives



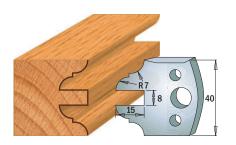
Pair of knives 690.096



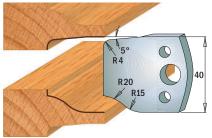
Pair of knives 690.097



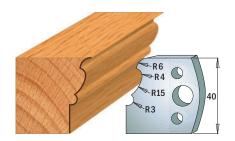
690.098 Pair of knives



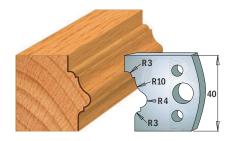
Pair of knives 690.099



Pair of knives 690.100



690.101 Pair of knives

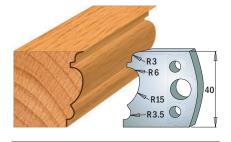


Pair of knives 690.102

Note: all knives available only in pairs



Pair of knives 690.103



Pair of knives 690.104

Drawings are 1:2 scale

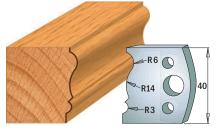


Pack Qty. 10

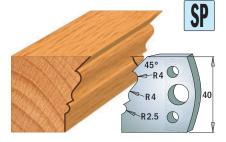




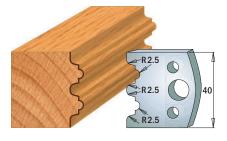




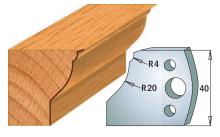
Pair of knives 690.106



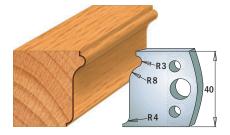
Pair of knives 690.107



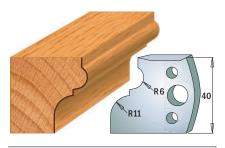
Pair of knives 690.108



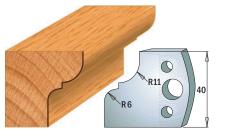
Pair of knives 690.109



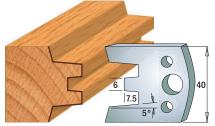
690.110 Pair of knives



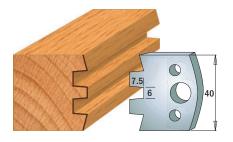
690.111 Pair of knives



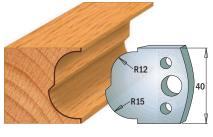
Pair of knives 690.112



Pair of knives 690.113



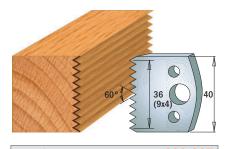
Pair of knives 690.114



Pair of knives 690.115



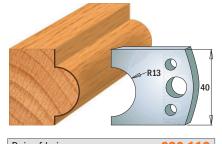
Pair of knives 690.116



690.117 Pair of knives



Pair of knives 690.118



Pair of knives 690.119

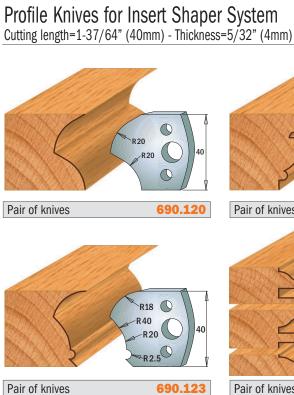
Note: all knives available only in pairs

Drawings are 1:2 scale

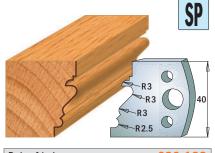
Dimension in mm.

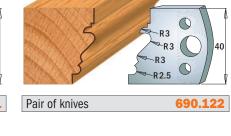
Pack Qty. 10

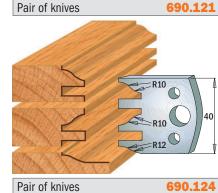


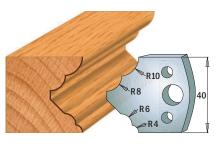












Pair of knives

690.125















Note: all knives available only in pairs





Drawings are 1:2 scale Dimension in mm.

## Profile Knives for Insert Shaper System Cutting length=1-37/64" (40mm) - Thickness=5/32" (4mm) 15.9 R3 R3 Pair of knives 690.170



Pack Qty. 10





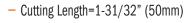






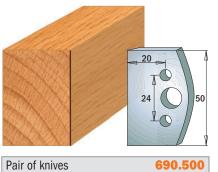






Pack Qty. 10

Pair of knives













Note: all knives available only in pairs



Dimension in mm.

Pack Qty. 10







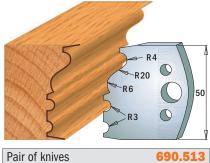


























Note: all knives available only in pairs Drawings are 1:2 scale

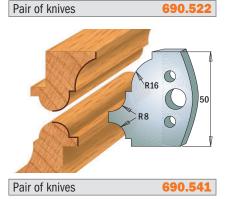
Dimension in mm.



Pack Qty. 10

690.523







Pair of knives







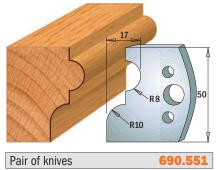














Note: all knives available only in pairs

Drawings are 1:2 scale

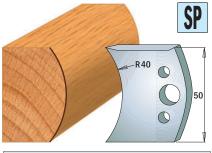
Dimension in mm.

Pack Qty. 10

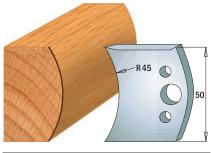


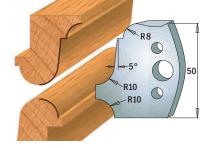


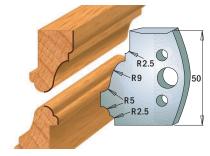




Pair of knives 690.553 Pair of knives 690.554 Pair of knives 690.555



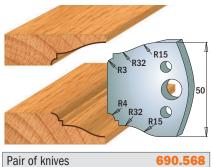




Pair of knives 690.556 Pair of knives 690.557

690.558 Pair of knives





Note: all knives available only in pairs

Drawings are 1:2 scale

Dimension in mm.

#### **690** BLANK KNIVES (TO BE SHARPENED)

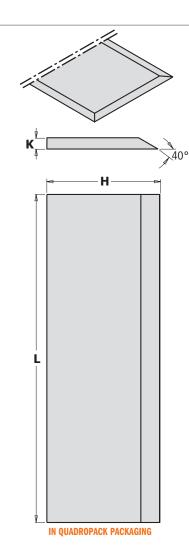


L—————————————————————————————————————	ORDER NO.	8	LB inches	mm	inches	mm	L inches	MAX PROFILE inches		
	690.193	10	1-9/32	32.5	1-37/64	40	1-3/4	23/32		
6 1	690.599	10	1-11/32	34	2	50	1-13/16	51/64		
11 24 I										



#### **794**





ORDER NO. HSS	L inches	H inches	<b>K</b> inches	KNIVES PER SET
794.101	4	5/8	1/8	3
794.151	6	5/8	1/8	3
794.152	6	3/4	1/8	3
794.161	6-1/8	5/8	3/32	3
794.202	8	5/8	1/8	3
794.203	8	3/4	1/8	3
794.302	12	3/4	1/8	3
794.303	12	7/8	1/8	3
794.321	12-1/2	11/16	1/8	3
794.381	15	1	1/8	3
794.511	20	1	1/8	1
794.641 ■	25	5/8	3/32	1
794.642 ■	25	5/8	1/8	1
794.643 ■	25	3/4	1/8	1
794.646 ■	25	1-1/4	1/8	1
794.648 ■	25	35mm	1/8	1
794.941 ■	37	1-1/8	1/8	1
794.942 ■	37	1-1/4	5/32	1
■ Until stock last				

#### 92 PLANER & JOINTER KNIVES HS 18%W

ORDER NO.	<b>L</b> mm	H mm	<b>K</b> mm	KNIVES PER SET
792.400.30	400	30	3	2
792.997.30	1050	30	3	2

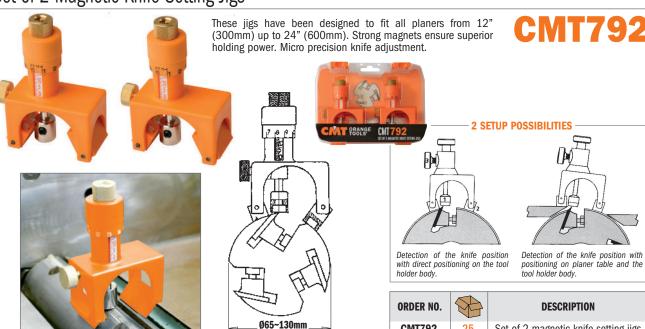
CMT's new selection of Planer & Jointer Knives are carefully ground from fine European high quality steel.

You'll appreciate the high quality finish on these tools, and more importantly, you'll love their fine performance.

Suitable for: Dry Softwood, Dry & Wet Hardwood.

Party suitable for: Wet Softwood, Glulam.

#### Set of 2 Magnetic Knife Setting Jigs



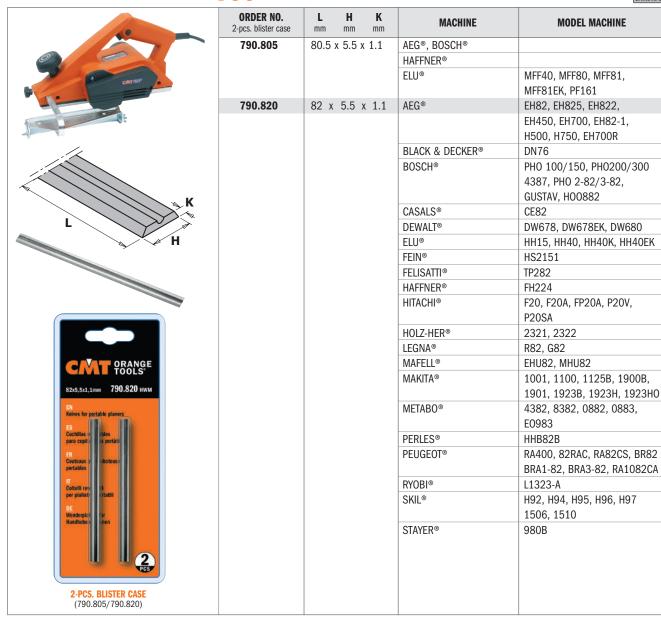
Ø2-9/16~5-1/8"

**CMT792** 

Set of 2 magnetic knife setting jigs







- Transverse rupture strength (N/mm²):.... 2.600



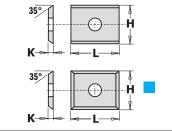
ORDER NO. 2-pcs. HSS	ORDER NO. 2-pcs. TCT	L mm	<b>H</b> mm	<b>K</b> mm	MACHINE	MODEL MACHINE
790.821.50	790.821.10	82	x 29 x	3	BOSCH®	GH020-82
					BLACK & DECKER®	DN710, DB711
					MAKITA®	1900B, 1923B, 1100,
						1901, 1125, KP0800K,
						KP0810, XPK01
					RYOBI®	L-1323A, L-282
790.110.50		110	x 29 x	3	MAKITA®	1002BA, 1911B
	TAILS: 				APPLICATION: Softwood Hardwood	

359

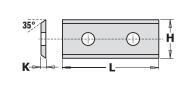
Plywood ...... Suitable



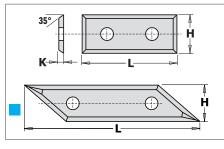




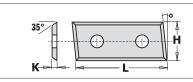
<b>L</b> mm	H mm	K mm	TYPE	A	Т	ORDER NO. K1920	ORDER NO. K2250
7.5	12	1.5		35°	2	790.075.00	
7.65	12	1.5		35°	2	790.076.00	
9.6	12	1.5		35°	2	790.096.00	
11.6	12	1.5		35°	2	Y790.116.00	
15	12	1.5		35°	2	790.150.00	
19.5	12	1.5		35°	4	790.195.12	
20	12	1.5		35°	2	790.200.00	790.200.03



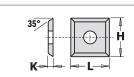
L mm	H mm	K mm	Α	T	ORDER NO. K1920	ORDER NO. K2250
24.7	12	1.5	35°	2	790.250.00	
30	12	1.5	35°	2	790.300.00	790.300.03
40	12	1.5	35°	2	790.400.00	790.400.03
50	12	1.5	35°	2	790.500.00	790.500.03
60	12	1.5	35°	2	790.600.00	790.600.03



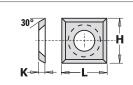
L mm	H mm	K mm	TYPE	A	T	ORDER NO. K1920	
29.5	9	1.5		35°	4	790.295.09	
29.5	12	1.5		35°	4	790.295.12	
39.5	12	1.5		35°	4	790.395.12	
49.2	9	1.5		35°	4	790.495.09	
49.2	12	1.5		35°	4	790.495.12	
58	12	1.5		35°	2	790.580.01	



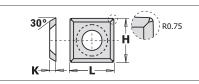
<b>L</b> mm	H mm	K mm	A	T	ORDER NO. K1920	
28.3	12	1.5	35°	4	790.283.12	
48.3	12	1.5	35°	4	790.483.12	



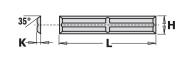
L mm	H mm	K mm	A	T	ORDER NO. K1920	ORDER NO. K2250
10.5	10.5	1.5	35°	4	790.105.03	
12	12	1.5	35°	4	790.120.00	790.120.03



<b>L</b> mm	H mm	K mm	Α	T	ORDER NO. K1920	ORDER NO. K2250
13.6	13.6	2	30°	4	790.136.00	
14	14	1.2	30°	4	790.140.10	
14	14	2	30°	4	790.140.00	790.140.03
14	14	2	45°	4	790.140.02	



L mm	H mm	K mm	R mm	A	Т	ORDER NO. K1920	
14	14	2	0.75	30°	4	790.140.20	

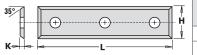


<b>L</b> mm	<b>H</b> mm	K mm	Α	T	ORDER NO. K1920	
20	4.1	1.1	35°	4	790.200.01	
30	5.5	1.1	35°	4	790.300.01	
50	5.5	1.1	35°	4	790.500.01	

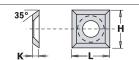




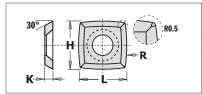




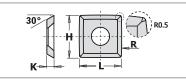
<b>L</b> mm	<b>H</b> mm	<b>K</b> mm	A	T	ORDER NO. F1640	
50	9	1.5	35°	4	790.500.09	
50	12	1.7	35°	4	790.503.00	



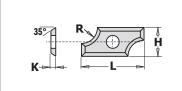
<b>L</b> mm	<b>H</b> mm	K mm	A	Т	ORDER NO. F1640	
14.3	14.3	2.5	35°	4	\$790.143.00	



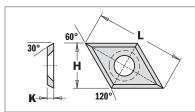
L mm	H mm	K mm	R mm	A	Т	ORDER NO. K1920	
15	15	2.5	150	30°	4	790.152.22	



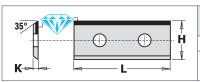
ORDER NO. K1920	Т	A	R mm	K mm	H mm	<b>L</b> mm
790.152.62	4	30°	100	2.5	15	15



L mm	H mm	<b>K</b> mm	R mm	A	Т	ORDER NO. K1920
19.5	9	1.5	2	35°	2	790.020.00
19.5	9	1.5	3	35°	2	790.030.00
19.5	9	1.5	5	35°	2	790.050.00
24	12	1.5	6.4	35°	2	790.064.00
24	12	1.5	8	35°	2	790.080.00



<b>L</b> mm	H mm	<b>K</b> mm	A	T	ORDER NO. K1920	
28	14	2	30°	2	790.280.00	



L mm	H mm	K mm	A	Т	ORDER NO.	
30	12	1.5	35°	1	790.300.60*	

\*These knives are supplied in a 2-pc. case. Minimum 2-pieces or multiple of 2-piece order.

MATERIAL	K1920	K2250
Softwood	****	
Hardwood	****	
Chipboard	****	****
MDF	****	****
HDF	****	****
Plastics	***	****
Solid Surfac	P.	****

TECHNICAL DETAILS:
K1920 Hardness (HV10): 1.920 - Transverse rupture strength (N/mm²): 2.600 New chrome grade for universal cutting applications. Excellent resistance to corrosion, oxidation
and mechanical wear. High efficiency, 20% longer lifetime compared to standard grade.

K2250 Hardness (HV10): 2.250 - Transverse rupture strength (N/mm²): 2.400 New nano-grain grade for maximum wear resistance. Higher efficiency due to improved tool lifetime. Improved toughness.



All knives are supplied in a 10-pc. case. Minimum 10-piece or multiple of 10-piece order.











# **791** BEARINGS









SAFETY RECOMMENDATIONS: be sure to keep the black washer right side up so that it corresponds with the bearing rotation during reassembly.

\* After resharpening, always switch to an undersized bearing:

**791.062.00** Ø9.3 replaces 791.002.00 (Ø9.5) **791.063.00** Ø12.5 replaces 791.003.00 (Ø12.7)

Sold in 10 pc. case. Minimum 10 pc. or multiple orders.



**DELRIN® CYLINDRICAL BEARINGS** 



10° DELRIN® CONICAL BEARINGS



**DELRIN® TRIANGULAR BEARINGS** 

ORDER NO.		ORDER NO. BULK	<b>D</b>		В		P
			inches	mm	inches	mm	mm
791.035.00	10	791.035.00/65 ■	1/4	6.35	1/8	3.17	2.8
791.062.00*	10			9.3	3/16	4.76	3.17
791.002.00	10	791.002.00/65 ■	3/8	9.52	3/16	4.76	3.2
791.063.00*	10			12.5	3/16	4.76	4.98
791.003.00	10	791.003.00/65 ■	1/2	12.7	3/16	4.76	5
791.010.00	10	791.010.00/65 <b>=</b>	1/2	12.7	1/4	6.35	4.8
791.022.00	10		-, -	13	_, .	5	4
791.018.00	10		5/8	15.8	3/16	4.76	5
791.009.00	10	791.009.00/65 <b>■</b>	5/8	15.8	1/4	6.35	5
791.006.00	10	731.003.00/ 03 =	3/0	16	1/4	5	5
791.025.00	10			16		8	5
			2/4		2/10	-	
791.019.00	10		3/4	19	3/16	4.76	7.5
791.007.00	10		0.44	19	4 / 4	6	6
791.004.00	10	<b>791.004.00/65</b> ■	3/4	19	1/4	6.35	7
791.034.00	10			19		8	6
791.011.00	10		3/4	19	1/2	12.7	4
791.012.00	10			22		8	6
791.005.00	10	791.005.00/65 <b>■</b>		22		8	7
791.017.00	10		7/8	22.2	3/16	4.76	7.5
791.021.00	10		7/8	22.2	3/8	9.52	7
791.013.00	10		7/8	22.2	1/2	12.7	7
791.037.00	10			28		8	9
791.026.00	10			28		12	8
791.014.00	10		1-1/8	28.5	3/16	4.76	8.4
791.030.00	10		1-1/8	28.5	,	8	8.5
791.027.00	10	791.027.00/65 ■	1-1/8	28.5	1/2	12.7	8
791.033.00	10		1-1/4	31.7	,	8	5
791.015.00	10		1-1/4	31.7	1/2	12.7	8
791.016.00	10		1-3/8	34.9	3/16	4.76	11.5
791.031.00	10		1-3/8	34.9	0,10	8	11.6
791.029.00	10		1-3/8	34.9	1/2	12.7	11.0
791.028.00	10		1 0/ 0	37	1/2	12	12
791.020.00	10		1-1/2	38.1	1/2	12.7	13.3
10° DELRIN® CONIC		RINGS	1-1/2	30.1	1/2	12.1	13.3
791.041.00	10	MINUS	3/4	19	3/16	4.76	6.8
791.041.00	10		3/4	22	3/16	4.76	6.8
DELRIN® TRIANGUL		INCS			3/10	4.70	0.0
			1/2	10.7	2/16	4.70	E O
791.042.00	10		1/2	12.7	3/16	4.76	5.8
791.043.00	10	DINCS	3/4	19	3/16	4.76	6.8
DELRIN® CYLINDRIC		MINGS	1./0	40.7	0./40	4.70	_
791.044.00	10		1/2	12.7	3/16	4.76	5
791.045.00	10		5/8	15.8	3/16	4.76	7.2
791.046.00	10		3/4	19.05	3/16	4.76	6.8
791.047.00	10			37.4	1/2	12.7	15.7

■ Minimum 50 pieces

# **990** SHIELDS FOR BEARINGS



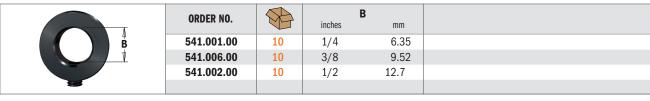
ORDER NO.	A	В	3	D		
ONDER NO.		inches	mm	inches	mm	
990.422.00	10	3/16	4.76	3/8	9.52	
990.423.00	10	3/16	4.76	1/2	12.7	
990.425.00	10	1/4	6.35	3/4	19	
990.426.00	10	1/2	12.7	1-3/8	34.9	



# **799** REDUCTION BUSHING FOR BEARING

	ORDER NO.	A	D			}	
<b>B</b> ■			inches	mm	inches	mm	
m	799.019.00	10	1/4	6.35	3/16	4.76	
all b	799.017.00	10	5/16	7.94	3/16	4.76	
D -	799.014.00	10	1/2	12.7	3/16	4.76	

### **541** STOP COLLAR FOR TOP BEARING BITS



### **541** SHIELDS FOR ASSEMBLY

	ORDER NO.		<b>B</b> mm	<b>D</b> mm	P mm	ORDER NO.		<b>B</b> mm	<b>D</b> mm	<b>P</b> mm		
	541.550.00	10	3.25	9	1.6	541.519.00	10	8	14.7	5.8		
	541.552.00	10	3.25	15.8	2	541.526.00	10	12	18	0.1		
	541.551.00	10	5.2	15.8	2.5	541.512.00	10	12	20	2		
0	541.514.00	10	6.4	9.52	2.2	541.511.00	10	12	20	3		
P	541.515.00	10	8	14	0.1	541.520.00	10	12	21	0.3		
	541.516.00	10	8	14	0.3	541.521.00	10	12	21	1.59		
→ B →     → D → →	541.517.00	10	8	14	0.5	541.522.00	10	12	21	3.18		
	541.518.00	10	8	14	1	541.523.00	10	12	21	6.16		
	541.500.00	10	8	14.7	3	541.524.00	10	12	21	1		
	541.501.00	10	8	14.7	4	541.525.00	10	12	21	0.5		

### **799** BUSHINGS

Bottimed									
<b>D</b> — ⇒	ORDER NO.	8	Е			D	L		
- B ⊢			inches	mm	inches	mm	inches		
8	799.064.00	10	1/4	6.35	5/16	7.94	1		
4	799.164.00	10	1/4	6.35	3/8	9.52	1		
1100	799.264.00	10	1/4	6.35	1/2	12.7	1		
1100	799.001.00	10	3/8	9.52	1/2	12.7	1		
1100									

# 991 KEYS FOR SCREWS

ORDER NO.	8	DESCRIPTION	ORDER NO.	8	DESCRIPTION					
HEX KEYS			TORX® KEY							
991.057.00	10	3/32" hex key for 1/8" screw	991.063.00	10	TORX® Key T8					
991.056.00	10	1.5mm hex key	991.069.00	10	TORX® Key T9					
991.060.00	10	2mm hex key	991.061.00	10	TORX® Key T15					
991.062.00	10	2.5mm hex key	991.072.00	10	TORX® Key T20					
991.067.00	10	3mm hex key	991.073.00	10	TORX® Key T25					
991.064.00	10	4mm hex key	991.071.00	10	TORX® Key T30					
	991.057.00 991.056.00 991.060.00 991.062.00 991.067.00	991.057.00 10 991.056.00 10 991.060.00 10 991.062.00 10 991.067.00 10	HEX KEYS       991.057.00     10     3/32" hex key for 1/8" screw       991.056.00     10     1.5mm hex key       991.060.00     10     2mm hex key       991.062.00     10     2.5mm hex key       991.067.00     10     3mm hex key	HEX KEYS         TORX® KEY           991.057.00         10         3/32" hex key for 1/8" screw         991.063.00           991.056.00         10         1.5mm hex key         991.069.00           991.060.00         10         2mm hex key         991.061.00           991.062.00         10         2.5mm hex key         991.072.00           991.067.00         10         3mm hex key         991.073.00	HEX KEYS         TORX® KEY           991.057.00         10         3/32" hex key for 1/8" screw         991.063.00         10           991.056.00         10         1.5mm hex key         991.069.00         10           991.060.00         10         2mm hex key         991.061.00         10           991.062.00         10         2.5mm hex key         991.072.00         10           991.067.00         10         3mm hex key         991.073.00         10					







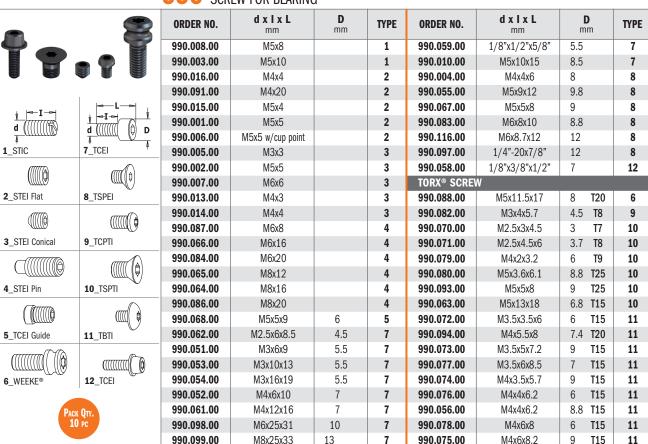
<b>ORDER NO.</b> S=Ø <b>1/2</b> " shank	8	DESCRIPTION
796.001.00	10	Router collet extension with 1/2" collet
796.001.01	10	Router collet extension with 1/4" collet
796.564.00	10	Spare collet 1/4"
796.627.00	10	Spare collet 1/2"

### **TECHNICAL DETAILS:**

- Super strength steel.
- Precisely machined for accuracy.

Collet included.

### 990 SCREW FOR BEARING



### 990.0 NUTS FOR ARBORS

NOTS FOR AIRBORS							
	ORDER NO.	8	DESCRIPTION				
	990.020.00	10	Nut for arbor M8 thread				
	990.022.00	10	Nut for arbor M12x1.25 thread				

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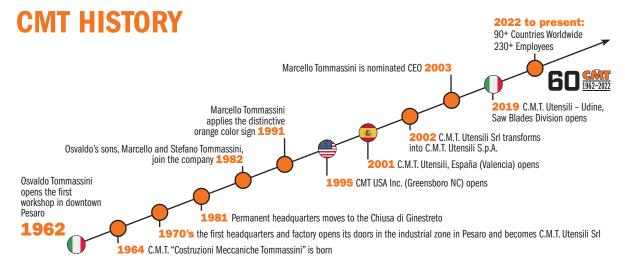


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JS1111K		JT118A		OMF230			138
JS1113AWP-2		JT118B		OMF232			138
JS1120CF		JT119B0		OMF236			139
JS1122AF		JT123X		OMF238			139
JS1122BF		JT127D		OMF239			139
JS1122EF		JT128BHM		OMF243			140
JS1122HF		JT141HM		OMF251			140
JS1122VF		JT144D		OMM-X16			140
JS1125VF		JT144DHM		OMM-X33			140
JS1141HM		JT150RF		OMM-X37			141
JS1155CHM		JT218A		OMM-X4			141
JS1156XHM		JT234X		OMM01			141
JS1210VF		JT244D		0MM02			141
JS1211K		JT244DDC		0MM03			142
JS1213AWP		JT301CD		OMM04			142
JS1222VF		JT308BFP		0MM05			142
JS1225VF	108	JT313AW		OMM06	137		143
JS123XF	107	JT318VF	117	OMM07		OMS30	143
JS1241HM	109	JT341HM		0MM08		OMS35	139
JS1243HM	110	JT344D	116	OMM09	138		
JS1255CH	106	JT367XHM	119	OMM10	138	P59,	61, 63, 65, 67, 69,
JS1411DF	103	JT718BF	118	OMM11	138		71, 73-74, 76~78
JS1531L	102	JT744D	116	OMM12	139	P07010	80
JS1617K	102			OMM13	139	P07120-X10	82
JS2013AWP	110	K	86~91	OMM14	139	P07140-X10	79
JS2243HM	110			OMM15	140	PCL-1	325
JS2345X	102	OMA30	134	OMM16	140	PCL-2	325
JS3456XF	104	OMA30000	134	OMM17	140	PGC	314
JS5678XF	104	OMA31	135	OMM18	140	PGD-1	315
JS610VF	103	OMF-X4	133	OMM19	141	PPJ-002	310
JS611DF	103	OMF001	130	OMM20	141		
JS617K	102	OMF002	131	OMM21	141	TMP	316
JS641HM	109	OMF053	127	OMM22	141		316
JS644D		OMF106		OMM23			323
JS711DF	103	OMF113		OMM24			322
JS725VFR		OMF133		0MM25			
JS920CF		OMF114		0MM26			
JS922AF		OMF118		OMM27			
JS922BF		OMF125		0MM28			
JS922EF		OMF126		OMM29			
JS922HF		OMF136		OMM30			
JS922VF		OMF157		OMM35			
JS925VF		OMF160		OMM36			
JS955CH		OMF165		OMS01			
		OMF183		OMS02			
JS956XHM JT016		OMF184		OMS03			
JT101A0		OMF201		OMS04			
JT101B				OMS05			
		OMF205					
JT101BIF		OMF223		OMS06			
JT101BR		OMF226		OMS07			
JT101D		OMF228		OMS08			
JT111C	115	OMF229	126	OMS09	138		





CMT headquarters in the 1970's

# CMT LOGO EVOLUTION



Hello there!

My name is **CMT ORANGE TOOLS**, I am the brand name of a dynamic Italian company which I am proud to tell you about. I was born in **1962** thanks to the initiative of my creator and company founder, Osvaldo Tommassini.

By the way, **CMT** stands for Costruzioni Meccaniche Tommassini. Over the years, my appearance has changed significantly. In **1991** and **1997**, my two brothers (Bit and Blade) were born and following them, many others.

Orange by birth, together we make a great team and are synonymous with quality!

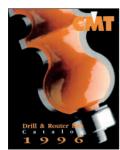
Today, after much hard work, our name has gone global so much so that our photo is registered in Trademark offices around the world. Present in 90 countries around the world, our family has grown, the result of undying enthusiasm and above all, the color **ORANGE**!











# Safety Recommendations & California Proposition 65



BEFORE USING ANY TOOL, PLEASE CAREFULLY READ ALL SAFETY RECOMMENDATIONS.

SCAN THIS QR CODE TO ACCESS THE "SAFETY AND RECYCLE" SECTION OF OUR WEBSITE, WHERE YOU'LL FIND:

 $\cdot$  all the safety recommendations for using our tools.

· RECYCLING GUIDELINES FOR PACKAGING.

BY CLICKING ON THE CORRESPONDING TOOL CATEGORY, YOU WILL FIND THE RECOMMENDATIONS IN 12 LANGUAGES.















### **CALIFORNIA PROPOSITION 65:**

In 2016, the State of California amended its Safe Drinking Water and Toxic Enforcement Act, better known as Proposition 65. These amendments modified regulations related to required product warning labels. Proposition 65 requires that businesses operating in California, as well as businesses marketing products that may eventually find their way into the California marketplace, must provide "clear and reasonable" warnings to Californians about the presence of certain chemicals in the products they purchase.

CMT is taking a proactive stance in implementing these new product warning labels because our customers' well-being and safety is our top priority. Each and every CMT product that contains a chemical determined by the State of California to pose a risk of cancer, birth defects or other reproductive harm

has been labelled with an updated warning on the product packaging. We thank you for your business and will continue with our commitment to safe, high-quality products.



**WARNING:** The products listed and described in this catalogue can expose you to chemicals including nickel, cobalt and formaldehyde, which are known to the State of California to cause cancer and lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.



**WARNING:** Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

For more information go to www.P65Warnings.ca.gov/wood

# CMT ORANGE TOOLS

### **SAW BLADES SAFETY**

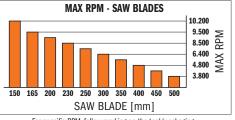
### WARNING! WEAR PROTECTIVE GLOVES WHEN HANDLING AND REMOVING THE TOOL FROM ITS PACKAGING.

Before using the tool, carefully read ALL safety recommendations available on our website www.cmtorangetools.com (or scan the OR code at the bottom of this page).

The following list of safety recommendations is only a partial list:

- Carefully read the machine manufacturer's manual and the relative instructions for use and safety before operating the tool.
- Ensure to fully comply with the safety regulations applicable in your country and with the pictograms on the packaging.
- NEVER operate a tool on a machine that is not equipped with the required safety devices.
- Ensure the machine is disconnected from the power supply before replacing, tightening, adjusting, or cleaning the tool.
- NEVER use a damaged, defective (or suspected defective), incomplete, excessively worn, or poorly sharpened tool.
- Always wear appropriate personal protective equipment (protective gloves, safety glasses, hearing protection, dust mask, slip-resistant safety shoes, safety helmet) during operation.
- If necessary, use the reduction ring included with the blade and, in any case, use only CMT reduction rings. The thickness of the rings must always be less than the main blade body thickness.
- Ensure that the flanges to secure the blade, which must be of equal diameter, are at least 1/3 the blade diameter and are parallel to each other.
- Do not exceed the maximum RPM (MAX RPM) specified, as it varies depending on the diameter and application.
- Resharpening must only be performed by a qualified and competent sharpening service center. Resharpened angles must match the original geometry of the manufacturer and therefore be compliant with all required safety regulations.





For specific RPM, follow marking on the tool/packaging.

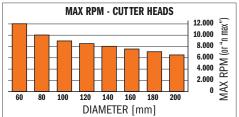
### **CUTTER HEADS SAFETY**

# WARNING! WEAR PROTECTIVE GLOVES WHEN HANDLING AND REMOVING THE TOOL FROM ITS PACKAGING.

Before using the tool, carefully read ALL safety recommendations available on our website www.cmtorangetools.com (or scan the OR code at the bottom of this page).

The following list of safety recommendations is only a partial list:

- Carefully read the machine manufacturer's manual and the relative instructions for use and safety before operating the tool.
- Ensure to fully comply with the safety regulations applicable in your country and with the pictograms on the packaging.
- NEVER operate a tool on a machine that is not equipped with the required safety devices.
- Ensure the machine is disconnected from the power supply before replacing, tightening, adjusting, or cleaning the tool.
- NEVER use a damaged, defective (or suspected defective), incomplete, excessively worn, or poorly sharpened tool.
- Always wear appropriate personal protective equipment (protective gloves, safety glasses, hearing protection, dust mask, slip-resistant safety shoes, safety helmet) during operation.
- Ensure that insert knives or movable parts are tightened and assembled correctly before use. If replacing/reversing them, only use the original screws supplied by the manufacturer.
- Ensure the tool is correctly installed, securely tightened, and aligned respecting the proper direction of rotation or direction. The cutting edges must not come into contact with each other or with any clamping components and should move freely without any obstructions.
- Follow the markings on the tool indicating the type of feed (MAN for manual or MEC for mechanical).
- Do not exceed the maximum RPM (MAX RPM) specified, as it varies depending on the diameter and application.



For specific RPM, follow marking on the tool/packaging.

# ROUTER BITS, DOWEL DRILLS, BITS FOR DRILLS AND POWER TOOLS SAFETY

# WARNING! WEAR PROTECTIVE GLOVES WHEN HANDLING AND REMOVING THE TOOL FROM ITS PACKAGING.

# REMOVE ALL PACKAGING MATERIALS, INCLUDING PROTECTIVE PLASTIC ELEMENTS, FROM THE TOOL SHANK BEFORE USE.

Before using the tool, carefully read ALL safety recommendations available on our website www.cmtorangetools.com (or scan the QR code at the bottom of this page).

The following list of safety recommendations is only a partial list:

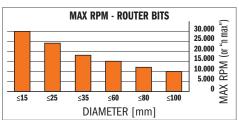
- Carefully read the machine manufacturer's manual and the relative instructions for use and safety before operating the tool.
- Ensure to fully comply with the safety regulations applicable in your country and with the pictograms on the packaging.
- NEVER operate a tool on a machine that is not equipped with the required safety devices.
- Ensure the machine is disconnected from the power supply before replacing, tightening, adjusting, or cleaning the tool.
- NEVER use a damaged, defective (or suspected defective), incomplete, excessively worn, or poorly sharpened tool.
   Always wear appropriate personal protective equipment (protective gloves, safety glasses, hearing protection, dust mask,
- slip-resistant safety shoes, safety helmet) during operation.

  Insert the tool into the collet according to the minimum clamping length marked on the shank or as per EN 847: S ≤ 10mm: Collet insertion ≥ 20mm; 10 < S < 25mm: Collet insertion ≥ 2 × S. Leave a minimum gap between the tool's
- end and the collet bottom.

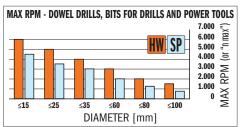
  Ensure that insert knives or movable parts are tightened and assembled correctly before use. If replacing/reversing them,
- only use the original screws supplied by the manufacturer.

  Do not exceed the maximum RPM (MAX RPM) specified, as it varies depending on the diameter and application.
- Resharpening must only be performed by a qualified and competent sharpening service center. Resharpened angles must match the original geometry of the manufacturer and therefore be compliant with all required safety regulations.





For specific RPM, follow marking on the tool/packaging.



For specific RPM, follow marking on the tool/packaging.

# What parameters should be considered when routing?



### Answering the following questions will provide you with the answer!

- What equipment is in use? Using outdated machinery is not the same as using brand new high quality equipment! It is important to understand that phenomena such as vibration is the direct result of wear and tear, which can lead to a poor quality finish. In order to dampen vibration, feed rate is critical and quite often, higher feed rates are associated with better finishing results.
- What factors influence bit performance? Many factors affect performance and the ultimate finish of the workpiece: the power of the collet chuck, the rigidity and eccentricity of the couplings, conditions and quality of the collets, reverse locking system, sharpened tool edge, the dust collection system in use and even the relative humidity of the workplace environment.
- Which is the best bit for the job? The number of cutting edges as well as the cutting diameter significantly affect work parameters. In general, the more cutting edges and the wider the blade diameter, the higher the feed rate.
- . What is the desired cutting depth? In order to increase cutting depth, it is necessary to reduce the feed rate and vice versa for shallower cuts.
- What is the running speed of the machine in use? By increasing the spindle speed (rpm), the quality of the finished edge improves. However, at the same time, friction also increases between the tool and the workpiece. As a result, tool longevity is compromised. Ideally, the objective is to select the slowest rotation speed possible compatible with the quality of finishing you hope to achieve.
- What is the desired edge finish? Coarse routing and fine routing are definitely not the same thing! You need to figure out what is more important: Quality or quantity. In order to prolong the life of your cutting tool, its best to choose the highest feed rate possible to achieve the finish you want.
- What are the requirements and challenges of the materials you're working with? Wood is a good example of natural fiber composite. It's naturally made up of a natural fibrous material, both elastic and flexible (cellulose: long molecular polymer chains), bound together by a very rigid substance (lignin: cross-linked polymer) as well as a compatibilizer (hemicellulose: a polysaccharide). It's an anisotropic material, that is, directionally dependent, implying different properties in different directions. How many types of wood and wood derivatives are you familiar with? Remember, no two pieces of wood are the same! In fact, the same work parameters carried out on two different pieces of wood will provide two very different results.

Feed rate is dependent of several factors, like the ones mentioned above - and these are just a few examples. It's important to weigh all factors in order to select an optimum feed rate suitable for the tools and work objectives involved. CMT is synonymous with quality and to produce high quality cuts you just can't randomly shoot off a bunch of numbers. Be wary of those who provide you with random numbers.

I get it....but where do I start? The best way to go forward is step-by-step using reliable test data. To quickly achieve the results best suited for your specific work expectations, you can always turn to theory! One rule of thumb, which may prove advantageous, is to use a simple gauge to measure chipload wherever possible. On the one hand, it should be noted that when chips that are too thick, breakage will occur, resulting in a poor, rough finish. On the other hand, when chips are too thin, it will negatively affect tool longevity and cause rapid wear and tear of the cutting edge because the teeth of the tool are rubbing more than removing material. The next time you experiment, you need to properly assess the specific demands of the work involved, assess chipload measurements and try to orient yourself towards a different thickness by taking into account the aforementioned factors. Then, with the aid of the formulas listed below, proceed to establish the appropriate feed rate for your next test. This will help you to achieve better results faster and you will have the essential information you will need for the next work project.

### **PARAMETERS:**

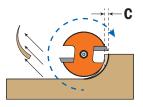
V = feed rate (m/min)

Z = cutting edges

C = Chipload (mm)

### **FORMULAS:**

 $V = (RPM \times Z \times C)/1000$  $RPM = V \times 1000 / (Z \times C)$ 



### **EXAMPLE:**

with caliper take measurement of a good result chipload (C=0,2mm).

Z=2

RPM=18000

 $V = (RPM \times Z \times C)/1000 = (18000 \times 2 \times 0, 2)/1000 = 7,2 m/min$ 

### **PROBLEM SOLVING** SOLUTIONS -----**INCREASE** Rotation speed Dust extraction Cutting depth **Poor finishing** Vibrations Number of cutting edges Clamping cutter/chuck Rotation speed Feed speed **Cutting edge wear** Vibrations · Rotation speed **Cutting edge burns** · Feed speed · Number of cutting-edges Rotation speed **Cutting edge debris** Cutting depth Feed speed Dust extraction Rotation speed Machine firmness **Vibrations** Cutting depth Workpiece firmness Feed speed Shank diameter · Collet clamping **Cutter breakage** · Cutting depth Vibrations · Change tool material or geometry DECREASE

# **Conversion Table**



				INOU FRA	OTIONS (V)					8411118	AFTED C		
0.015605 1/64	INCH DECIMALS	1/6/	1/22			1//	1/2	mm	1" + (v)			1" + (v)	5" + (v)
0.015250   1/54	2201117120	1/04	1/32	1/10	1/0	1/4	1/2	111111					
0.04875 3/94 1/32 0.794 26.194 51.995 76.994 102.394 177.794 10.002500 1/16 1.585 26.986 57.781 51.991 77.794 10.002500 1/16 1.585 26.986 57.894 52.784 18.103.185 128.594 0.093750 3/32 2.381 27.781 53.811 73.534 128.994 0.093750 3/32 2.785 24.387 27.781 53.811 73.534 128.994 0.093750 7/64 18.2951 1/8 3.175 28.575 73.816 103.381 129.381 129.381 10.09375 7/64 18.2951 1/8 3.175 28.575 73.975 104.775 120.775 10.15550 1.15650 1/8 3.175 28.575 73.975 104.775 130.175 10.15550 1.166550 3/16 3.185 12.855 3.185 10.3851 129.385 10.16650 1.17815 11.674 4.386 29.786 8.168 80.189 105.566 130.386 10.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.674 1.285 10.18550 1.17815 11.18550 1.17815 11.185 10.18550 1.17815 11.185 10.18550 1.17815 11.185 10.18550 1.17815 11.185 10.18550 1.17815 11.185 10.18550 1.17815 11.185 10.18550 1.17815 11.185 10.18550 1.17815 11.185 11.	0.015625	1/6/						0 307					
1.191   26.591   51.991   77.391   102.791   128.791   00.002500   1.716   1.1582   26.988   52.388   77.881   103.886   128.888   0.078725   57.64   1.984   27.384   27.384   27.844   78.184   103.884   128.888   0.078725   57.64   1.984   27.384   27.84   78.184   103.884   128.888   10.09375   77.64   2.278   28.178   33.578   78.591   103.381   129.381   10.09375   77.64   1.785   1.785   10.09375   77.64   2.278   28.178   33.578   78.978   104.378   129.381   10.109375   77.64   3.157   28.575   33.975   28.372   53.375   79.772   105.1775   130.175   10.140655   97.64   3.579   28.972   54.372   79.772   105.172   130.175   10.160650   97.64   3.579   3.596   29.396   3.696   29.396   29.396   3.696   29.396   3.696   29.396   3.696   29.396   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696   3.696		1/ 04	1/32										
0.078125   5/64   1.986   27.984   5.786   1.986   27.88   5.786   1.986   128.586   1.28.586   1.089375   3.72   2.811   27.81   5.5578   75.181   103.981   129.578   10.19375   7.764   2.778   2.778   28.178   53.578   53.975   79.375   104.775   100.775   10.19200   1/8   3.175   28.575   53.975   79.375   104.775   103.572   10.19200   1/8   3.372   28.972   54.372   79.772   105.772   103.572   10.15250   5.528   59.964   3.372   28.972   54.372   79.772   105.772   103.572   10.15250   5.528   10.15250   5.528   80.168   105.569   130.572   10.15250   5.528   80.168   105.569   130.572   10.15250   5.528   80.168   105.569   130.572   10.15250   13.764   13.164		3/64	1,02										
1,0078125   5,664   1,986   27,384   27,384   128,981   128,981   128,981   10,09375   7,684   1,28381   27,381   27,381   53,181   75,581   103,384   128,981   10,09375   7,684   1,28381   28,381		-,		1/16									
0.093750   3.92   2.381   27.781   53.578   73.975   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.981   129.381   103.982   129.782   103.082   1		5/64											
0.150000			3/32							53.181			129.381
0.140625   9,64   3.572   28,972   54,372   19,772   105,172   103,672     0.171875   11,64   4.86   29,766   55,166   80,168   105,966   103,996     0.171875   13,64   4.762   30,162   55,562   30,992   31,762     0.203125   13,64   5.159   30,559   55,559   81,359   106,759   132,159     0.218750   7/32   5.556   30,996   50,359   81,359   106,759   132,159     0.234375   15,64   5.833   31,333   56,753   82,153   107,553   132,953     0.236375   15,64   6.747   32,147   57,547   82,247   108,47   133,747     0.201250   9/32   7,144   32,544   57,547   82,947   108,47   133,747     0.218750   9/32   7,144   32,544   58,341   83,741   108,141   134,541     0.31250   5/16   7,338   33,338   58,738   84,138   105,538   135,331     0.336125   21,664   38,344   33,344   108,144   134,541     0.31250   5/16   7,383   33,338   58,738   84,138   105,538   135,331     0.336125   21,664   8,384   33,344   108,144   134,541     0.31250   5/16   7,383   33,338   58,738   84,138   105,538   135,331     0.336125   21,664   8,384   33,344   59,543   34,331     0.336125   21,664   8,384   33,334   59,134   84,338   108,538   135,331     0.336125   21,664   8,384   33,338   58,738   84,138   105,538   135,331     0.336125   21,664   8,384   33,338   58,738   84,138   105,538   135,331     0.336125   21,664   8,384   33,334   59,134   84,338   103,331   135,331     0.336125   23,664   9,922   35,222   60,722   85,122   111,122   136,522     0.406250   15,332   0.1019   35,719   61,119   86,519   111,522   136,522     0.406250   15,332   0.1019   35,719   61,119   86,519   111,522   136,522     0.406250   15,342   0.1019   36,719   61,119   86,519   111,521   137,719     0.437500   7,76   11,112   36,512   61,912   87,312   117,712   138,112     0.437500   7,76   11,112   36,512   61,912   87,312   117,712   138,110     0.437500   7,76   11,100   37,306   62,706   88,106   113,506   113,506     0.486750   15,32   0.164   0.164   0.164   0.164   0.164     0.486750   15,32   0.164   0.164   0.164   0.164   0.164   0.164     0.4	0.109375	7/64						2.778	28.178	53.578	78.978	104.378	129.778
0.156200   0.732   3.969   29.369   54.766   80.168   105.569   130.969   0.178875   11/64   4.866   29.766   55.166   80.568   131.366   0.187500   3.716   4.762   30.162   55.562   80.962   106.862   131.762   0.203128   13/64   5.159   30.559   5.959   81.359   13.579   132.159   0.218750   7.732   5.556   30.956   56.356   81.766   107.156   132.556   0.234375   15/64   0.747   32.147   57.547   0.2347   108.347   133.747   0.23675   19.656   30.2560   31.350   31.750   57.150   0.25507   107.950   333.350   0.255025   17/64   0.747   32.147   57.547   0.2347   108.347   133.747   0.23875   19/64   0.747   32.147   57.547   0.2347   108.347   133.747   0.23875   19/64   0.747   32.147   57.547   0.2347   108.347   133.747   0.23875   19/64   0.34250   13.720   11/32   8.733   33.33   56.783   84.333   109.538   134.938   0.328125   21/64   0.34570   11/32   8.733   33.33   56.783   84.333   109.934   135.334   0.34570   11/32   8.733   33.343   33.734   59.133   84.931   109.934   135.334   0.35957   23.664   0.34570   3.7600					1/8				28.575	53.975	79.375	104.775	130.175
0.171875   11/64		9/64											
0.1875/00 3/16 4.762 30.162 55.662 80.962 100.362 131.762 0.203125 13/64 5.159 30.559 55.98 81.359 100.539 125.56 0.218750 7/32 5.556 30.956 56.359 81.359 107.593 132.950 0.256000 1/4 6.350 31.750 77.150 82.550 107.950 133.350 0.256000 1/4 6.350 31.750 77.150 82.550 107.950 133.350 0.256005 17/64 82.550 107.950 133.350 86.563 82.150 107.950 133.350 0.256005 19/64 7.144 22.544 57.944 83.244 108.744 134.144 0.31250 9/32 7.144 22.544 57.944 83.244 108.744 134.144 0.31250 11/32 8.3333 83.38 83.738 81.138 105.58 134.338 0.328125 21/64 8.334 33.734 99.134 84.534 109.544 134.541 0.312500 11/32 8.334 33.734 99.134 84.534 109.343 135.731 0.339375 23/64 3.76 99.22 83.322 60.722 88.522 111.522 136.525 0.399625 25/64 9.922 83.322 60.722 86.122 111.125 136.525 0.399625 27/64 10.10.319 35.719 61.11 86.519 89.34 111.25 136.525 0.399625 29/64 11.30 10.319 35.719 61.11 86.519 89.34 137.319 0.421875 27/64 10.1716 36.116 61.516 86.916 112.316 137.716 0.437500 7/16 11.112 36.512 61.912 87.312 13.919 137.919 0.438750 15/32 10.399 36.909 62.309 87.709 113.109 138.509 0.488737 31/64 11.309 36.909 62.309 87.709 113.109 138.909 0.488737 31/64 11.309 36.909 62.309 87.709 113.109 138.909 0.488737 31/64 11.309 36.909 62.309 87.709 113.109 138.909 0.488737 31/64 11.309 36.909 62.309 87.709 113.109 138.909 0.488737 31/64 11.309 36.909 62.309 87.709 113.00 138.906 0.488737 31/64 11.309 36.909 62.309 87.709 113.109 138.909 0.58605 41/64 11.309 36.909 62.309 87.709 113.00 138.909 0.58605 41/64 11.309 36.909 62.309 87.709 113.00 138.909 0.58605 41/64 11.309 36.909 62.309 87.709 113.00 138.909 0.58605 41/64 11.309 36.909 62.309 87.709 113.00 138.909 0.58605 41/64 11.309 36.909 62.309 87.709 113.00 138.909 0.58605 41/64 11.309 36.909 62.309 87.709 113.00 138.909 0.58605 41/64 41.684 40.084 66.484 90.884 115.284 141.884 0.58750 41/64 41.684 40.084 66.484 90.884 115.284 141.884 0.58750 41/64 41.684 40.084 66.484 90.884 115.284 141.884 0.58750 41/64 41.484 40.884 40.884 60.885 90.885 115.606 144.680 0.58750 41/64 41.484 41.484 41.484 41.484 41.484 4			5/32										
0.201275   13/64		11/64											
0.218750				3/16									
0.24375   15/64     5.953   31.353   56.753   82.153   107.553   132.953     0.266805   17/64     6.747   32.147   57.547   82.947   108.347   133.747     0.281250   9/32   7.144   32.544   57.944   83.344   108.744   134.144     0.281250   5/16   7.381   33.383   38.738   83.138   109.538   134.383     0.328125   21/64   8.334   33.388   38.738   84.138   109.538   134.383     0.328125   21/64   8.334   33.388   38.738   84.138   109.538   134.383     0.343750   11/32   8.731   34.131   59.331   84.931   110.331   135.731     0.359375   23/64   9.9128   34.925   60.325   85.725   111.125   136.625     0.376000   3/8   9.526   34.925   60.325   85.725   111.125   136.625     0.376000   3/8   9.526   34.925   60.325   85.725   111.125   136.625     0.421875   27/64   9.922   35.322   60.722   86.122     0.406250   13/32   10.319   35.719   61.119   86.519   11191   37.319     0.431850   17/32   11.509   36.168   61.168   88.168   112.316   137.736     0.431850   7/16   11.112   36.512   61.912   87.312   112.712   138.125     0.431850   15/32   11.906   37.306   62.706   88.106   113.906   138.906     0.488375   31/64   12.303   37.703   63.103   88.503   113.09   319.303     0.50000   1/2   12.700   38.100   63.500   88.00   113.00   138.509     0.562500   9/16   14.288   39.898   63.897   89.297   114.687   140.994     0.562500   17/32   13.891   39.291   64.691   90.091   115.991   140.994     0.562500   17/32   13.891   39.291   64.691   90.091   115.991   140.994     0.562500   17/32   13.891   39.898   66.678   90.786   140.994     0.562500   17/32   13.891   39.291   64.691   90.091   115.991   140.994     0.562500   17/32   13.894   40.094   65.484   90.894   116.681   140.994     0.562500   17/32   13.894   40.994   65.484   90.894   116.681   140.994     0.562500   17/32   13.894   14.684   40.094   65.484   90.894   116.681   140.994     0.56250   17/32   13.994   13.995   13.995   13.995   13.995   13.995     0.562500   17/32   13.994   14.684   40.094   65.484   90.894   116.681   140.994     0.56		13/64	7.00										
0.256000		15/04	7/32										
0.286265   17/64		15/64				1/1							
0.281250		17/01				1/4							
0.298875   19/64   5/16   7.938   33.338   58.738   84.741   109.141   134.541   0.31250   0.328125   21/64   8.334   33.734   59.134   84.734   109.338   134.538   0.328125   21/64   8.334   33.734   59.134   84.534   109.938   135.334   0.343750   11/32   8.1313   34.131   59.531   84.531   10.331   135.731   0.359375   23/64   9.128   34.528   59.928   85.228   110.738   136.523   0.379000   3/8   9.526   34.925   60.322   85.725   111.125   136.522   0.379000   13/32   10.331   35.731   0.319625   25/64   9.9922   35.322   60.722   86.722   86.912   11.125   136.522   0.406550   1.3/32   10.374   36.116   61.516   86.916   112.316   137.716   0.421875   27/64   10.776   36.116   61.516   86.916   112.316   137.716   0.437500   7/16   11.112   36.512   61.912   87.312   112.712   138.112   0.4375125   29/64   11.509   37.306   62.706   88.106   113.306   138.806   0.48375   31/64   11.304   37.304   0.48875   31/64   11.304   37.304   0.48875   33/64   12.303   37.703   63.103   88.509   114.303   139.303   0.532500   0.515625   33/64   13.894   38.894   64.294   89.994   11.697   14.0997   0.515625   33/64   13.894   38.894   64.294   89.994   11.697   14.0997   0.515625   37/64   38.894   40.894   60.887   89.997   14.697   14.0997   0.52000   5/8   15.481   40.884   40.084   65.884   90.884   116.284   14.0891   0.562500   5/8   15.476   40.884   40.884   40.884   60.884   90.884   116.284   14.0891   0.562500   21/32   16.669   42.069   67.469   92.89   118.269   14.697   14.287   0.656250   21/32   16.669   42.069   67.469   92.89   118.269   14.697   14.685   0.687500   3.746		17/04	0/22										
0.328125 21/64		19/6/	9/32										
0.328125   21/64		19/04		5/16									
0.343750		21/64		3/10									
0.358375   23/64     9.128   34.528   59.928   85.328   110.728   136.128     0.375000   3/8   9.526   34.925   60.325   85.725   111.125   136.525     0.390625   25/64   9.922   35.322   60.722   86.122   111.522   136.525     0.406250   13/32   10.319   35.719   61.119   86.519   111.919   137.319     0.421875   27/64   10.716   36.116   61.516   61.516   66.916   112.316   137.719     0.437500   7/16   11.112   36.512   61.912   87.312   112.712   138.112     0.453125   29/64   11.509   36.909   62.309   87.709   113.109   138.509     0.468750   15/32   11.906   37.306   62.706   88.106   113.506   138.906     0.484375   31/64   12.303   37.703   63.103   88.503   113.903   139.903     0.518525   33/64   12.303   37.703   63.500   63.500   88.900   114.300   139.700     0.518505   17/32   13.44   38.894   64.294   88.990   114.309   139.700     0.518505   17/32   13.44   38.894   64.994   89.694   115.094   104.944     0.562500   9/16   14.288   39.688   65.088   90.488   115.888   141.288     0.593750   19/32   15.081   40.481   65.881   91.281   116.681   142.081     0.669375   39/64   15.478   40.894   65.844     0.693975   39/64   15.478   40.894   65.884   11.588   141.288     0.693975   39/64   16.672   41.672   67.072   92.472   117.872   143.272     0.660500   41/64   5/8   15.478   40.481   65.881   91.281   116.681   142.081     0.660500   41/64   5/8   15.478   40.481   65.881   91.281   116.681   142.875     0.660500   41/64   5/8   15.478   40.481   65.881   91.281   116.681   142.081     0.66950   21/32   16.669   42.069   67.669   92.669   119.962   144.660     0.670125   45/64   17.462   42.666   67.866   93.666   119.062   144.660     0.687500   17/46   18.663   44.063   69.463   94.885   110.002   144.660     0.768525   49/64   14.464   46.844   70.247   98.82   12.814   147.244     0.788575   55/64   13.46   14.646   43.646   43.666   43.666   93.660   93.660   119.650   146.650     0.768050   27/32   24.464   45.44   70.644   96.044   121.444   146.844     0.798875   55/64   24.666   24		21/04	11/32										
0.375000		23/64	11,02										
0.390625   25/64     9.922   35.322   60.722   86.122   111.522   136.922		,			3/8								
0.406250 13/32 10.319 35.719 61.119 86.519 111.1919 137.319   0.421875 27/64 10.716 36.116 61.516 86.916 112.316 137.716   0.437500 7/16 11.112 36.512 61.912 87.312 112.712 138.112   0.458125 29/64 115.90 36.909 62.309 87.709 113.109 138.509   0.468750 15/32 11.906 37.306 62.706 88.106 113.506 138.906   0.484375 31/64 12.303 37.703 63.103 88.503 113.903 139.303   0.500000 1/2 12.700 38.100 63.500 88.900 114.300 139.700   0.515625 33/64 13.907 38.497 63.897 89.907 114.697 140.097   0.531250 17/32 13.494 38.894 64.294 89.694 115.094 140.094   0.546875 35/64 13.891 39.291 64.691 90.091 115.491 140.891   0.562500 9/16 14.288 39.688 65.088 90.488 115.888 141.288   0.578125 37/64 14.684 40.084 65.484 90.884 115.888 141.288   0.593750 19/32 15.081 40.481 65.881 91.281 116.681 142.081   0.603375 39/64 15.478 40.878 66.278 91.678 117.475 142.875   0.605000 5/8 15.5478 40.878 66.278 91.678 117.475 142.875   0.6050500 21/32 16.669 42.069 67.469 93.662 118.669 118.269   0.671875 43/64 17.666 42.466 67.69 93.662 119.062 144.462   0.673375 43/64 17.666 42.466 67.69 93.662 119.062 144.462   0.673375 43/64 17.666 42.466 67.69 93.662 119.062 144.462   0.673125 45/64 17.666 42.466 67.69 93.662 119.062 144.462   0.703125 45/64 17.666 42.466 67.69 93.662 119.062 144.462   0.703125 45/64 1 14.684 40.634 40.634 69.859 94.695 118.669 144.666   0.687500 11/16 17.462 42.862 68.262 93.662 119.062 144.462   0.703125 45/64 1 19.856 43.656 69.56 99.567 119.695 144.669   0.7680525 49/64 11.16		25/64											
0.437500         7/16         11.112         36.512         61.912         87.312         112.712         138.112           0.453125         29/64         11.509         36.909         62.309         87.709         113.109         138.509           0.468750         15/32         11.906         37.306         62.706         88.106         113.903         139.303           0.500000         1/2         12.700         38.100         63.500         88.500         113.903         139.303           0.515625         33/64         17/32         13.494         38.894         64.294         89.694         115.094         140.097           0.546875         35/64         13.891         38.94         64.891         90.091         114.097         140.097           0.546875         35/64         13.891         39.291         64.691         90.091         115.491         140.494           0.546875         35/64         13.891         39.291         64.691         90.091         115.491         140.494           0.546875         35/64         13.891         39.894         64.294         89.694         115.691         140.494           0.546875         35/64         14.684         40.08	0.406250	,	13/32										137.319
0.453125   29/64   11.509   36.909   62.309   87.709   113.109   138.509	0.421875	27/64						10.716	36.116	61.516	86.916	112.316	137.716
0.468750         15/32         11,906         37,306         62,706         88,106         113,506         138,906           0.484375         31/64         12,303         37,703         63,103         88,503         113,903         139,303           0.500000         1/2         12,700         38,407         63,897         89,297         114,607         140,009           0.515625         33/64         17/32         13,494         38,894         64,294         89,694         115,094         140,494           0.546875         35,644         13,891         39,291         14,697         140,891           0.56875         35,644         14,684         40,084         66,491         90,901         115,491         140,891           0.578125         37/64         14,684         40,084         65,484         90,884         115,688         141,288           0.593750         19/32         15,478         40,878         66,278         91,678         117,078         142,081           0.625000         5/8         15,878         41,275         66,275         92,075         117,475         142,875           0.625000         5/8         15,875         41,275         66,275         92,472<	0.437500			7/16				11.112	36.512	61.912	87.312	112.712	138.112
0.484375   31/64     12.303   37.703   63.103   88.503   113.903   139.303   0.500000		29/64											
0.500000         1/2         12.700         38.100         63.500         88.900         114.300         139.700           0.515625         33/64         13.097         38.497         63.897         89.297         114.697         140.097           0.531250         17/32         13.494         38.894         64.294         89.694         115.094         140.494           0.562500         9/16         14.288         39.688         65.088         90.488         115.891         140.891           0.578125         37/64         14.288         39.688         65.088         90.884         115.281         141.684           0.578125         37/64         14.288         39.688         65.088         90.884         115.284         141.684           0.593750         19/32         15.818         40.481         65.881         91.281         116.681         142.081           0.625000         5/8         15.875         41.275         40.678         66.278         91.678         117.475         142.875           0.640625         41/64         16.272         41.672         67.072         92.472         117.475         142.875           0.651875         33/64         11.762         42.06			15/32										
0.515625         33/64         17/32         13.097         38.897         63.897         89.297         114.697         140.097           0.531250         17/32         13.494         38.894         64.294         89.694         115.094         140.494           0.546875         35/64         13.891         39.291         64.691         90.091         115.491         140.891           0.562500         9/16         14.288         39.688         65.088         90.488         115.888         141.288           0.593750         19/32         15.081         40.481         66.881         91.281         116.681         142.081           0.609375         39/64         15.478         40.878         66.278         91.678         117.078         142.478           0.625000         5/8         15.875         41.275         66.675         92.075         117.872         143.272           0.656250         21/32         16.669         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.066         42.466         67.866         93.266         118.069         144.62           0.703125         45/64         17.462         42.86		31/64											
0.531250         17/32         13.494         38.894         64.294         89.694         115.094         140.494           0.546875         35/64         13.891         39.291         64.691         90.091         115.491         140.891           0.562500         9/16         14.288         39.688         65.088         90.488         115.881         41.684           0.578125         37/64         14.684         40.084         65.484         90.884         116.284         141.684           0.593750         19/32         15.681         40.481         65.278         91.678         117.078         142.478           0.625000         5/8         15.875         41.275         66.675         92.075         117.477         142.872           0.640625         41/64         16.272         41.672         67.072         92.472         117.872         143.272           0.6506250         21/32         16.669         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.462         42.862         68.262         93.662         119.661         144.462           0.734375         47/64         17.859         43.259         68.		00/04					1/2						
0.546875         35/64         9/16         13.891         39.291         64.691         90.091         115.491         140.891           0.562500         9/16         14.288         39.688         69.088         90.488         115.888         141.288           0.578125         37/64         19/32         15.081         40.481         65.484         90.884         116.281         141.681         142.081           0.690375         39/64         15.478         40.878         66.278         91.678         117.078         142.478           0.625000         5/8         15.875         41.275         66.675         92.075         117.475         142.875           0.640625         41/64         16.272         41.672         67.072         92.472         117.875         143.287           0.671875         43/64         17.066         42.666         67.866         93.266         118.266         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         118.266         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         118.666         144.066           0.687500         11/1		33/64	47/00										
0.562500         9/16         14.288         39.688         65.088         90.488         115.888         141.288           0.578125         37/64         14.684         40.084         65.484         90.884         116.284         141.684           0.59375         39/64         15.478         40.878         66.278         91.678         117.078         142.478           0.625000         5/8         15.875         41.275         66.675         92.075         117.475         142.875           0.656250         21/32         16.669         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.066         42.466         67.866         93.266         118.666         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.862           0.703125         45/64         11.7859         43.259         68.659         94.059         119.459         144.852           0.734375         47/64         18.653         44.053         69.453         94.855         120.253         145.653           0.756000         3/4         19.050         44.450         69.85		25/64	17/32										
0.578125         37/64         19/32         14.684         40.084         65.484         90.884         116.284         141.684           0.593750         19/32         15.081         40.481         65.881         91.281         116.681         142.081           0.603075         39/64         15.478         40.878         66.278         91.678         117.078         142.478           0.625000         5/8         15.875         41.275         66.675         92.075         117.475         142.875           0.640625         41/64         16.272         41.672         67.072         92.472         117.872         143.272           0.656250         21/32         16.669         42.069         67.469         92.869         118.269         143.666           0.671875         43/64         17.066         42.466         67.866         93.266         118.666         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.462           0.703125         45/64         17.859         43.259         68.659         94.059         119.459         144.859           0.734375         47/64         18.653         44.		33/04		0/16									
19/32		37/6/		3/10									
0.609375         39/64         5/8         15.478         40.878         66.278         91.678         117.078         142.478           0.625000         5/8         15.875         41.275         66.675         92.075         117.475         142.875           0.640625         41/64         16.272         41.672         67.072         92.472         117.872         143.272           0.671875         43/64         17.066         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.066         42.466         67.866         93.266         118.666         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.462           0.734375         45/64         17.859         43.259         68.659         94.059         119.459         144.859           0.734375         47/64         18.653         44.053         69.453         94.855         120.253         145.653           0.750000         3/4         19.050         44.450         69.850         95.250         120.650         146.047           0.781250         25/32         19.844         45.244<		31/04	19/32										
0.625000         5/8         15.875         41.275         66.675         92.075         117.475         142.875           0.640625         41/64         16.272         41.672         67.072         92.472         117.872         143.272           0.656250         21/32         16.669         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.066         42.466         67.866         93.266         118.666         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.462           0.703125         45/64         17.859         43.259         68.659         94.059         119.459         144.889           0.718750         23/32         18.256         43.656         69.056         94.456         119.856         145.256           0.734375         47/64         18.653         44.053         69.453         94.855         120.253         145.653           0.750000         3/4         19.050         44.450         69.850         95.250         120.650         146.050           0.765625         49/64         19.447         44.847         70.2		39/64	10/02										
0.640625         41/64         16.272         41.672         67.072         92.472         117.872         143.272           0.656250         21/32         16.669         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.066         42.466         67.866         93.266         119.062         144.062           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.462           0.703125         45/64         17.859         43.259         68.659         94.059         119.459         144.859           0.718750         23/32         18.256         43.656         69.056         94.456         119.856         145.256           0.734375         47/64         18.653         44.053         69.453         94.855         120.253         145.653           0.750000         3/4         19.050         44.450         69.850         95.250         120.650         146.050           0.765625         49/64         19.447         44.847         70.247         95.647         121.047         146.447           0.781250         25/32         19.844         45.244         70		00,0.			5/8								
0.656250         21/32         16.669         42.069         67.469         92.869         118.269         143.669           0.671875         43/64         17.066         42.466         67.866         93.266         118.666         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.462           0.703125         45/64         17.859         68.659         94.059         119.459         144.859           0.718750         23/32         18.256         43.656         69.056         94.456         119.856         145.653           0.734375         47/64         18.653         44.053         69.453         94.855         120.253         145.653           0.750000         3/4         19.050         44.450         69.850         95.250         120.650         146.050           0.765625         49/64         19.447         44.847         70.247         95.647         121.047         146.447           0.781250         25/32         19.844         45.244         70.644         96.044         121.444         146.844           0.796875         51/64         20.241         45.641         71.041         96	0.640625	41/64						16.272	41.672	67.072	92.472	117.872	143.272
0.671875         43/64         17.066         42.466         67.866         93.266         118.666         144.066           0.687500         11/16         17.462         42.862         68.262         93.662         119.062         144.462           0.703125         45/64         17.859         43.656         69.056         94.456         119.459         144.859           0.718750         23/32         18.256         43.656         69.056         94.456         119.856         145.256           0.734375         47/64         18.653         44.053         69.453         94.855         120.253         145.653           0.750000         3/4         19.050         44.450         69.850         95.250         120.650         146.050           0.765625         49/64         19.447         44.847         70.247         95.647         121.047         146.447           0.781250         25/32         19.844         45.244         70.644         96.044         121.444         146.844           0.796875         51/64         20.241         45.641         71.041         96.441         121.841         147.241           0.821250         3/64         21.344         46.343         71.		,	21/32										
0.703125       45/64       17.859       43.259       68.659       94.059       119.459       144.859         0.718750       23/32       18.256       43.656       69.056       94.456       119.856       145.256         0.734375       47/64       18.653       44.053       69.453       94.855       120.253       145.653         0.750000       3/4       19.050       44.450       69.850       95.250       120.650       146.050         0.765625       49/64       19.447       44.847       70.247       95.647       121.047       146.447         0.781250       25/32       19.844       45.244       70.644       96.044       121.444       146.844         0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64	0.671875	43/64						17.066	42.466	67.866	93.266	118.666	144.066
0.718750       23/32       18.256       43.656       69.056       94.456       119.856       145.256         0.734375       47/64       18.653       44.053       69.453       94.855       120.253       145.653         0.750000       3/4       19.050       44.450       69.850       95.250       120.650       146.050         0.765625       49/64       19.447       44.847       70.247       95.647       121.047       146.447         0.781250       25/32       19.844       45.244       70.644       96.044       121.444       146.844         0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8	0.687500			11/16				17.462	42.862	68.262	93.662	119.062	144.462
0.734375       47/64       18.653       44.053       69.453       94.855       120.253       145.653         0.750000       3/4       19.050       44.450       69.850       95.250       120.650       146.050         0.765625       49/64       19.447       44.847       70.247       95.647       121.047       146.447         0.781250       25/32       19.844       45.244       70.644       96.044       121.444       146.844         0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.255       47.625       73.025       98.425       123.825       149.622         0.906250       29/32		45/64									94.059		
0.750000       3/4       19.050       44.450       69.850       95.250       120.650       146.050         0.765625       49/64       19.447       44.847       70.247       95.647       121.047       146.447         0.781250       25/32       19.844       45.244       70.644       96.044       121.444       146.844         0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64			23/32										
0.765625       49/64       19.447       44.847       70.247       95.647       121.047       146.447         0.781250       25/32       19.844       45.244       70.644       96.044       121.444       146.844         0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64		47/64											
0.781250       25/32       19.844       45.244       70.644       96.044       121.444       146.844         0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16		40				3/4							
0.796875       51/64       20.241       45.641       71.041       96.441       121.841       147.241         0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16       23.812       49.212       74.612       100.012       125.412       150.812         0.953125       61/64		49/64	05.400										
0.812500       13/16       20.638       46.038       71.438       96.838       122.238       147.638         0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16       23.812       49.212       74.612       100.012       125.412       150.812         0.953125       61/64       24.209       49.609       75.009       101.409       126.809       152.209         0.968750       31/32		E4 /C4	25/32										
0.828125       53/64       21.034       46.434       71.834       97.234       122.634       148.034         0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16       23.812       49.212       74.612       100.012       125.412       150.812         0.953125       61/64       24.209       49.609       75.009       101.409       126.809       152.209         0.968750       31/32       24.606       50.000       75.406       100.806       126.206       151.606		51/64		12/16									
0.843750       27/32       21.431       46.831       72.231       97.631       123.031       148.431         0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16       23.812       49.212       74.612       100.012       125.412       150.812         0.953125       61/64       24.209       49.609       75.009       101.409       126.809       152.209         0.968750       31/32       24.606       50.000       75.406       100.806       126.206       151.606		53/64		13/10									
0.859375       55/64       21.828       47.228       72.628       98.028       123.428       148.828         0.875000       7/8       22.225       47.625       73.025       98.425       123.825       149.225         0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16       23.812       49.212       74.612       100.012       125.412       150.812         0.953125       61/64       24.209       49.609       75.009       101.409       126.809       152.209         0.968750       31/32       24.606       50.000       75.406       100.806       126.206       151.606		33/04	27/22										
0.875000     7/8     22.225     47.625     73.025     98.425     123.825     149.225       0.890625     57/64     22.622     48.022     73.422     98.822     124.222     149.622       0.906250     29/32     23.019     48.419     73.819     99.219     124.619     150.019       0.921875     59/64     23.416     48.816     74.216     99.616     125.016     150.416       0.937500     15/16     23.812     49.212     74.612     100.012     125.412     150.812       0.953125     61/64     24.209     49.609     75.009     101.409     126.809     152.209       0.968750     31/32     24.606     50.000     75.406     100.806     126.206     151.606		55/64	21/02										
0.890625       57/64       22.622       48.022       73.422       98.822       124.222       149.622         0.906250       29/32       23.019       48.419       73.819       99.219       124.619       150.019         0.921875       59/64       23.416       48.816       74.216       99.616       125.016       150.416         0.937500       15/16       23.812       49.212       74.612       100.012       125.412       150.812         0.953125       61/64       24.209       49.609       75.009       101.409       126.809       152.209         0.968750       31/32       24.606       50.000       75.406       100.806       126.206       151.606		00/07			7/8								
0.906250     29/32     23.019     48.419     73.819     99.219     124.619     150.019       0.921875     59/64     23.416     48.816     74.216     99.616     125.016     150.416       0.937500     15/16     23.812     49.212     74.612     100.012     125.412     150.812       0.953125     61/64     24.209     49.609     75.009     101.409     126.809     152.209       0.968750     31/32     24.606     50.000     75.406     100.806     126.206     151.606		57/64											
0.921875     59/64     23.416     48.816     74.216     99.616     125.016     150.416       0.937500     15/16     23.812     49.212     74.612     100.012     125.412     150.812       0.953125     61/64     24.209     49.609     75.009     101.409     126.809     152.209       0.968750     31/32     24.606     50.000     75.406     100.806     126.206     151.606		, , ,	29/32										
0.937500     15/16     23.812     49.212     74.612     100.012     125.412     150.812       0.953125     61/64     24.209     49.609     75.009     101.409     126.809     152.209       0.968750     31/32     24.606     50.000     75.406     100.806     126.206     151.606		59/64											
0.953125       61/64       24.209       49.609       75.009       101.409       126.809       152.209         0.968750       31/32       24.606       50.000       75.406       100.806       126.206       151.606				15/16									
	0.953125	61/64						24.209	49.609	75.009	101.409	126.809	152.209
0.08/375 63/6/ 25.002 50.402 75.002 404.002 406.002 450.002			31/32									126.206	
0.3043 73.803 101.203 120.003 152.003	0.984375	63/64						25.003	50.403	75.803	101.203	126.603	152.003

### CMT's Limited Warranty and Procedures



### ONE-YEAR LIMITED WARRANTY

- 1. CMT tools are designed, engineered and manufactured for optimum performance and service. If, for any reason, the first retail purchaser ("you") are not satisfied during the one (1) year period from the purchase date with the performance of the tools, and the tools were used only for their recommended application and in accordance with CMT's recommendations, you may return them to CMT for replacement. This Limited Warranty excludes normal wear and tear, dull, abused, misused, modified, damaged or resharpened tools. CMT shall not be liable for damages, including for damages to property or persons, arising out of improper installation, missuse or misapplication of tools.
- 2. ALL IMPLIED WARRANTIES FOR THE TOOLS, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE LIMITED WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
- 3. The remedy provided in paragraph 1 is your sole and exclusive remedy for all claims and causes of action arising out of or related to the tools. IN NO EVENT SHALL CMT'S LIABILITY, WHETHER IN CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE, EVER EXCEED THE PURCHASE PRICE OF THE TOOL AT ISSUE.

### **RETURNED TOOLS:**

CMT will accept the return of tools that are defective or have been shipped in error. All returned tools must be accompanied by proof of purchase and a return authorization number, which must be obtained from CMT headquarters or a CMT authorized agent PRIOR to the return.

Other than tools shipped in error or for defective tools, if a return is authorized by CMT in its sole discretion, the following conditions apply:

### 1. A NEW ORDER IS PLACED TO REPLACE THE RETURNED TOOLS

- a. If the returned tools are ready to be restocked (no damages to the tools and packaging is in good condition), no charge will be applied.
- b. If the returned tools need to be repacked and/or relabeled, a 10% restocking fee will be applied.

### 2. NO ORDER IS PLACED TO REPLACE THE RETURNED TOOLS

- c. If the returned tools are ready to be restocked (no damages to the tools and packaging is in good condition), a 10% restocking fee will be applied.
- d. If the returned tools need to be repacked and/or relabeled, a 20% restocking fee will be applied.
- 3. The shipper is responsible for paying transportation charges.
- 4. Any approved return of inventory must be accompanied by an order in an amount at least equal to the net value of the credit.
- 5. Written authorization must be obtained from CMT before the return will be accepted.

### **GENERAL CONDITIONS:**

CMT reserves the right to make from time to time changes to the tools without notice and without obligating itself to make these changes on previously sold tools. Title and risk of loss or damage to the tools passes to the Buyer upon delivery (and if shipped, upon delivery to the carrier regardless of who pays the shipping cost).

This warranty is not transferable. CMT expressly disclaims all other statements or representations of warranties, remedies, product quality or performance made by sales representatives, dealers, distributors, retailers, authorized agents, or in literature or documents given to Buyer. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### LIABILITY:

UNDER NO CIRCUMSTANCES SHALL CMT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, PUNITIVE OR SPECIAL DAMAGES, INCLUDING LOST PROFITS, ARISING FROM THE USE OF, INSTALLATION OF, DEFECT IN, INABILITY TO USE, OR PROPERTY DAMAGE OR INJURY CAUSED BY THE TOOLS OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

### **DISPUTES:**

To the extent allowed by law, Buyer consents to the exclusive jurisdiction of the state courts of North Carolina and federal district court for the middle district of North Carolina for the adjudication of all claims and disputes arising out of or related to the tools and waives any objection to venue or convenient forum with respect to said courts. This Limited Warranty and Procedures and the performance hereunder shall be deemed made and performed in the State of North Carolina, and the laws of that State of North Carolina (excluding conflict of law provisions) shall govern its interpretation, construction and enforcement.

CMT USA, INC. 7609 BENTLEY ROAD SUITE D, GREENSBORO, NC 27409 PHONE 336-854-0201 FAX 336-854-0903

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ADLER®	BUSELLATO®	DIVARIO®	FLEX®	HOLZMA®	MASTERWOOD®	PALFOAM™	SKIL®	VECTURO®
AEG®	CAPTO®	DOMINO®	FORMICA®	HOMAG®	MAYER®	PERLES®	SMART®	VELCRO®
ALBERTI®	CASALS®	DREMEL®	FOUNTAINHEAD®	HPS®	MEPLA®	PEUGEOT®	STARLOCK®	VERANDA®
ALTENDORF®	CERATIZIT®	DURALUMIN®	FREUD®	HUNDEGGER®	METABO®	PLEXIGLASS®	STARLOCKMAX®	VIRUTEX®
ALUCOBOND®	CHICAGO®	DUROPLAST®	GIBRALTAR®	IMA®	MILWAUKEE®	POLYLAM®	STARLOCKPLUS®	VITAP®
ANUBA®	CHOICEDECK®	EIMA®	GRASS®	IVARPLANK®	MINI SPOT®	PORTER CABLE®	STAYER®	WEEKE®
AVONITE®	CMS®	EINHELL®	GRIGGIO®	KN0EVENAGEL®	MORBIDELLI®	PROXXON®	STRIPLOX®	WEGOMA®
AYEN®	CLAMEX®	ELU®	HÄFELE®	KRESS®	MULTIMASTER®	RIDGID®	SURELL®	WILSONART®
AZEK®	CORIAN®	ETERNIT®	HAFFNER®	LAMELLO®	MULTITALENT®	ROCKWELL®	SWISSPEARL®	W00D®
BALESTRINI®	COROPLAST®	ETHAFOAM®	HARDIEPANEL®	LEGNA®	NOTTMEYER®	ROTHENBERGER®	TENSO®	WORX®
BIESSE®	CRAFTSMAN®	FATIGUE-PROOF®	HARDIEPLANK®	LEUCO® P-SYSTEM	NUOVA BULLERI	RYOBI®	TERSA®	WÜRTH®
BILEK®	CREMONESI®	FEIN®	HETTICH®	LEXAN®	BREVETTI®	SALICE®	TIMBERTECH®	ZETA P®
BISCO®	DELRIN®	FELDER®	HILTI®	MAFELL®	OKITE®	SCHEER®	TORWEGGE®	
BLACK & DECKER®	DENSIMET®	FELISATTI®	HITACHI®	MAGGI®	OMLAT®	SCHLEICHER®	TORX®	
BLUM®	DEWALT®	FERMACELL®	HOFFMANN®	MAKITA®	OZITO®	SCM®	TRESPA®	
BOSCH®	DIBOND®	FESTOOL®	HOLZ-HER®	MASTERCRAFT®	P-SYSTEM®	SILESTONE®	TREX®	

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# Explanation of Symbols

Explanation of Oylinbols		I	
CARBIDE TUNGSTEN TIPPED CARBIDE TIPPED	SOLID SOLID TUNGSTEN CARBIDE	INSERT CARBIDE INSERT CARBIDE	CARBIDE GRIT
POLYCRYSTALLINE DIAMOND	GRIT DIAMOND GRIT		
INOX INOX	HSS HSS HIGH SPEED STEEL (HS)	HPS HIGH PERFORMANCE STEEL	HCS HIGH CARBON STEEL
SP ALLOYED TOOL STEEL	BIM BIMETAL WITH 8% COBALT	BIM BIMETAL WITH 8% COBALT TIN + TIN COATED TEETH	
11 ONE CUTTING EDGE	T2 TWO CUTTING EDGES	T3 THREE CUTTING EDGES	T3R THREE CUTTING EDGES WITH CHIPBREAKER
<b>74</b> FOUR CUTTING EDGES	<b>16</b> SIX CUTTING EDGES		
11+1 ONE + ONE CUTTING EDGES	Two + one cutting edges	TWO + TWO CUTTING EDGES	THREE + THREE CUTTING EDGES
<b>16+3</b> SIX + THREE CUTTING EDGES	V2 ONE SPUR	<b>V4</b> FOUR SPUR	
RH RIGHT-HAND ROTATION	LEFT-HAND ROTATION	RIGHT-HAND & LEFT-HAND ROTATION	
ANTIKICK-BACK	RADIAL RELIEF	TOOL WITH PLUNGING CAPACITY	TOOL WITH BEARING
UPCUT BIT	DOWNCUT BIT	UPCUT & DOWNCUT BIT	axial angle
MECHANICAL FEED	MANUAL FEED	FLUSH TRIMMING	GROOVING, SIZING
REBATING, PROFILING, BEVELING	SPIRAL BORING	AVOID AXIAL PLUNGING	NOT FOR HAND HELD USE FOR ROUTER TABLE ONLY
ANTIKICK-BACK	ORANGE CHROME®	ORANGE SHIELD COATING®	DLCS CHROME COATING
SAW BLADE WITH DAMPENING SLOTS WITH FILL	SAW BLADE WITH DAMPENING SLOTS WITHOUT FILL		
CARDBOARD BOX FOR SAW BLADES	CLAMSHELL CARRY CASE FOR SAW BLADES	PLASTIC CARRY CASE FOR SAW BLADES	PLASTIC BOX FOR CUTTER HEAD
LONG LIFE LONG LIFE & EXTRA LONG LIFE	2X/4X CUTTING CUTTING EDGE	3X LONGER LIFE THAN UNCOATED	40X/60X LONGER LIFE THAN CARBIDE
WEAR FIVE FINGER GLOVES	WEAR SAFETY GLASSES	WEAR EAR PROTECTION	WEAR DUST MASK
WEAR SAFETY SHOES	WEAR SAFETY HELMET	WARNING	
WEAR FIVE FINGER GLOVES	WEAR SAFETY GLASSES	WEAR EAR PROTECTION	HANGEAUGE THAN CARBIDE

# CONT ORANGE TOOLS®



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