

CMT ORANGE TOOLS®

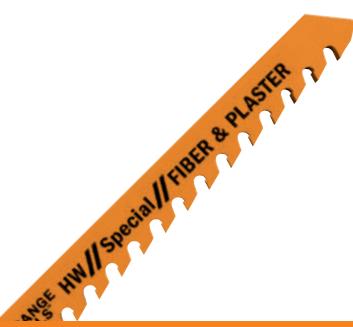
THE WIDEST TOOLING RANGE

CATALOGUE ENGLISH EDITION 2018

Saw Blades



Jig Saw Blades



Sabre Saw Blades



Tools for Multi-Cutters



Tools with Bore & Knives



Router Bits & Sets



CNC Router Cutters & Chucks



Industrial Dowel Drills



Bits for Hand Power Tools



Hole Saws



Power Tools



Accessories



Welcome to the 2018 catalogue

Dear Customer,

Thank you for your interest in CMT products.

Take a moment to browse our new catalogue and choose from an even wider range of innovative and state-of-the-art woodworking tools, from router bits, saw blades, jig and sabre saw blades, hole saws, and boring bits to oscillating tools, CNC cutters, cutter heads, chucks, power tools, and so much more!

A detailed list of spare parts on each product category is also provided to guide you through your purchase.

We continually strive to develop our technical know-how and make significant investments in research and development, but our greatest priority is customer care.

A satisfied customer is worth more than any other achievement; therefore, each page of this catalogue contains CMT's highest commitment to the professional woodworker.

Should you not find a product that suits your needs, please let us know.

Our highly skilled engineers and design technicians are always keen to assist you with your woodworking operations.

Thank you for your interest in CMT Orange Tools.

Your CMT Team



www.cmtutensili.com

Joint us on our channel

Find us on f



Youtube: CMT Orange Tools

Facebook: CMT Orange Tools

Abbreviations

A	= Cutting angle	L	= Overall length
α	= Hook angle	L₁	= Working length
ATB	= Alternate top bevel grind	LB	= Adjusting length
B	= Bore diameter	LH	= Left-hand rotation
β	= Type of grind	MATB	= Alternate top bevel with chamfer grind
COMBI3	= Pin-Hole 2/7/42 + 2/9/46,4 + 2/10/60	MTCG	= Triple chip grind (trapezoidal) with chamfer
COMBI5	= Pin-Hole 2/7/110 + 2/8,4/130 + 2/14/110 + 4/9/100 + 4/19/120	mm	= Millimeters
COMBI7	= Pin-Hole 2/10/80 + 1/11/85 + 2/11/115 + 2/11/148 + 2/14/100 + 2/14/125 + 2/19/120	P	= Plate thickness
d	= Small cutting diameter	Pack Qty.	= Dispatch package quantity
D	= Diameter	PTFE	= Non-stick industrial coating, black and orange
D₂	= Overall diameter	R, R₁	= Radius
D₃	= For shank diameter	RH	= Right-hand rotation
Ø	= Diameter	RPM	= Round per minute
FFT	= Flat flat trapezoidal	S, S₁	= Shank diameter
FTG	= Flat top grind	T₁	= Thickness / Maximum joint thickness
FWF	= Flat with alternate chamfer	TCG	= Triple chip grind (trapezoidal)
H	= Cutting depth	TS	= Tooth spacing
HDF	= Hollow ground teeth	TPI	= Teeth per inch
I	= Cutting length	V	= Spurs
I₁	= Short cutting length	W	= Width
K	= Kerf thickness	Z	= Number of teeth
		<input type="checkbox"/>	= On request
		<input checked="" type="radio"/>	= Solid tungsten carbide

THE RIGHT TOOLS FOR THE BEST RESULTS!

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

	SAW BLADES	JIG SAW BLADES	SABRE SAW BLADES	MULTI-CUTTERS	HOLE SAWS
WOOD					CARBIDE
WOOD & METAL		✓	✓	✓	
METAL					BI-METAL
ALUMINIUM					
MULTI-MATERIAL	■			■	
PLASTIC		■			
MASONRY			■		■ DIAMOND
SPECIAL		■			





SAW BLADES

5~50



JIG SAW BLADES

51~57



SABRE SAW BLADES

59~68



TOOLS FOR MULTI-CUTTERS

69~91



TOOLS WITH BORE & KNIVES

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ROUTER BITS & SET

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CNC ROUTER CUTTERS & CHUCKS

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INDUSTRIAL DOWEL DRILLS

275~300



BITS FOR HAND POWER TOOLS

301~319



HOLE SAWS

320~332



POWER TOOLS, JIGS & ACCESSORIES

333~365



DISPLAY CABINETS

366~375



SPARE PARTS

376~380

SINCE 1962 - MADE IN ITALY THEN, STILL MADE IN ITALY TODAY

By now, the story has been told. After over 50 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.



Pesaro, Italy



Greensboro, United States



Valencia, Spain

OUR CHANNELS

www.cmtutensili.com


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Find us on


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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.

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

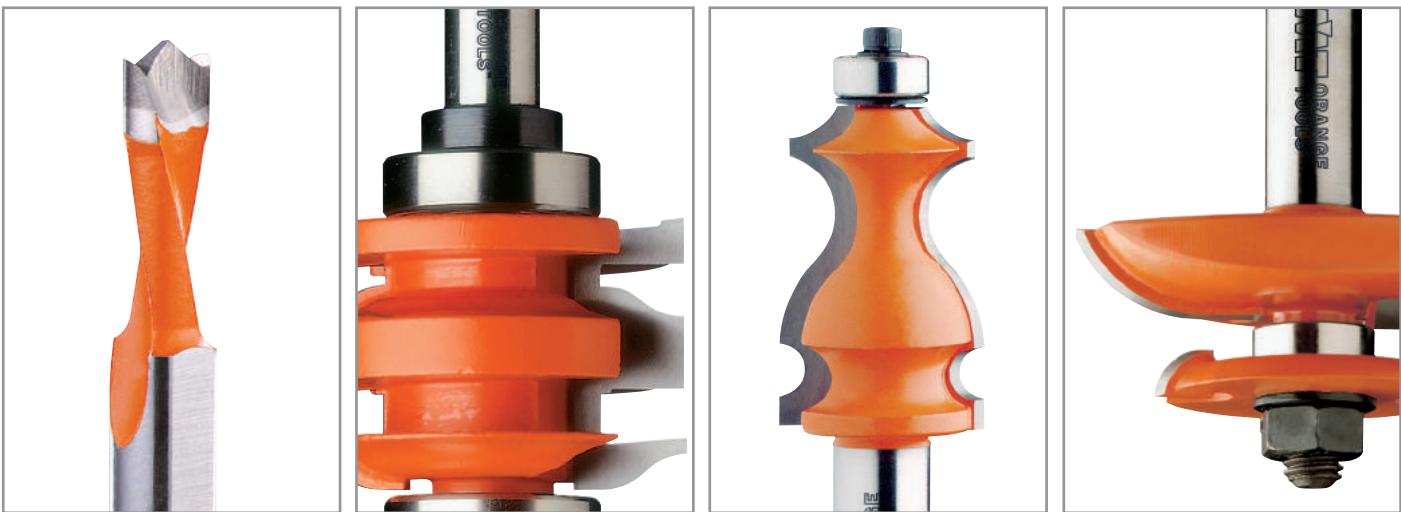
Turning a design into a finished product means finding the right material that will do the job and that lives up to the specifications set out in the design - quality performance from the final product depends on it. When it comes to selecting raw materials, we don't cut corners. At CMT, we know that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

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 as 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 non-stick PTFE 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

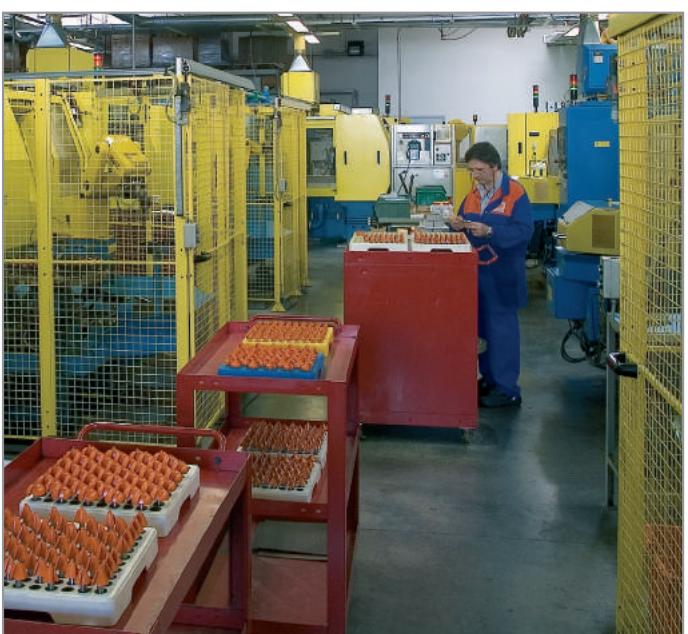
Nobody's perfect, but we're trying. CMT uses rigorous quality control programs and equipment to ensure that each bit has been manufactured with precision and accuracy and that it will give the long-lasting performance you expect from a CMT orange tool. CMT is in the process of adopting the directives set out in ISO 9001 which will give SPC quality control by an independent party under the Common Market Directives ISO 9001. Quality control is the final step of the production process, but it's just as important as the first.

WE RECYCLE

The water used during production must be pure and free from contaminants or hard minerals like iron or calcium which can build up and damage the machinery. 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.

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.



Loading the automated multi-axis CNC sharpening machines.



Fully automated assembly and marking.

ROUTER BITS & SETS



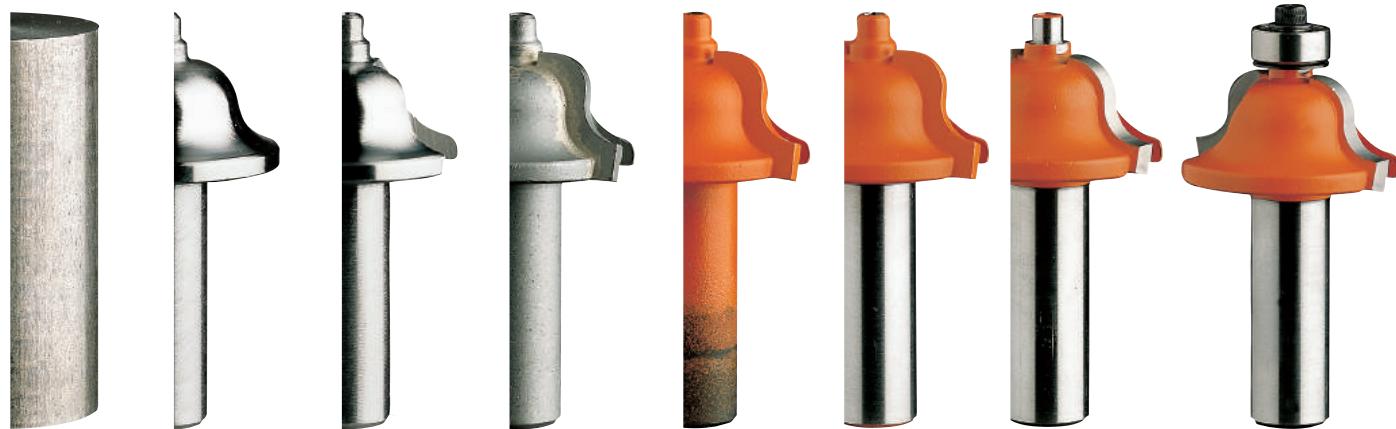
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BUILDING THE WORLD'S FINEST CUTTING TOOLS

We built our foundations - and our reputation for high quality - on the craftsman-like manufacturing of boring bits and router bits. Times have changed and technology has completely altered the way things are done, and in this regard CMT is no exception. Our facilities have been newly renovated and our equipment today represents the most advanced technology available on the market, but we still make and will continue to make routers and boring bits with all the skill and care that we always have.



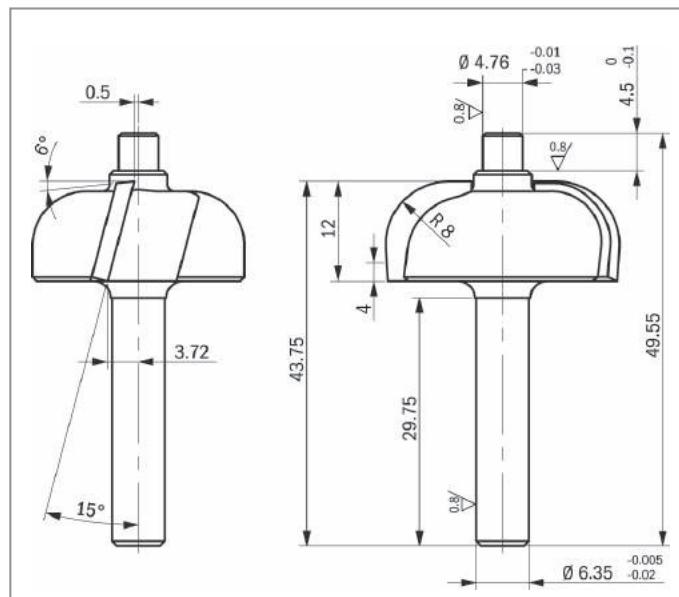
DESIGN

We engineer each tool with a purpose in mind. Years of developing high performance tools means that many of our top-selling tools are tried and true, the result of continuously perfecting each design, but we don't stop there. New materials, new profiles and new methods of working keep emerging. At CMT, we want to stay on the cutting edge of what's new in the industry so our technical department constantly evaluates current market developments and, by using state of the art software and years of experience, 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:

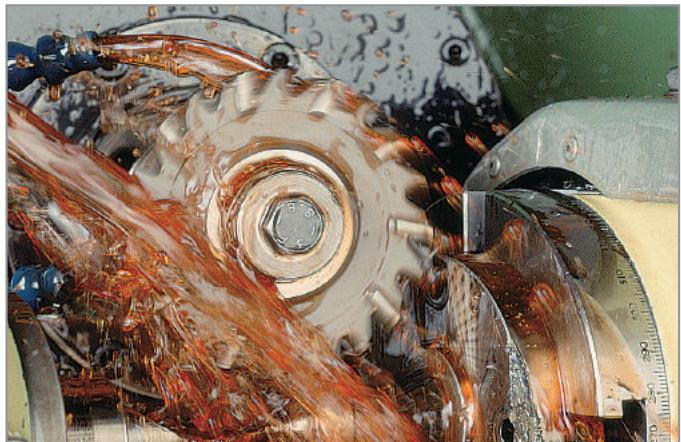
Superior Steel. All our steel comes from right above the border, in Switzerland, where they use an exclusive hot drawing process to forge the solid bar stock we use to manufacture our router bit shanks and bodies. The result is steel that is superior in strength and exceptionally resistant to fatigue 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

In even the most carefully done task, there's always room for error. However at CMT, we take measures to prevent even 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 measures every dimension of the tool without actually coming into contact with it, to make sure that the tool measurements are accurate and that the profiles conform precisely to technical specifications. We also use this system to gauge the wear and tear on the CNC machines.



CMT's fully automatic measuring system.

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



WOOD
Magazine
Best Overall
1994
ROUTER BITS

CMT® Overall Rating 10!
Top Performing Router Bits



MULTI-AXIS GRINDING CREATES A 3X LONGER LASTING MIRROR FINISH

Each cutting edge is precisely sharpened to the micron, in order to produce a cutting angle, which is razor sharp, yet extremely durable.



ANTI-KICKBACK DESIGN

Controls depth of cut and minimizes the chance of kickback, reducing your risk of injury.

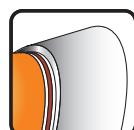


SINTERHIP

HI-DENSITY INDUSTRIAL CHROME CARBIDE™

SINTERHIP HI-DENSITY INDUSTRIAL CHROME CARBIDE™

New process called SinterHIP (Hot Isostatic Pressing), helps prevent material failure and increases cutting life.



TRI-METAL BRAZING

Our Silver-Copper-Silver brazing protects the carbide tip when cutting harder wood or wood composites and reduces the chance of failed welds.



NON-STICK ORANGE SHIELD COATING™

Prevents bit from heating up, reduces pitch build-up, protects against corrosion and provides a longer bit life.

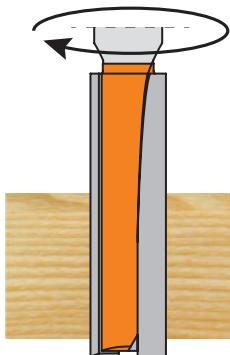
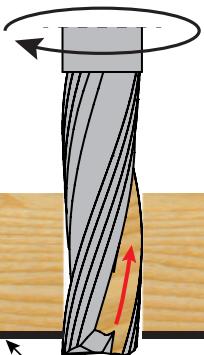
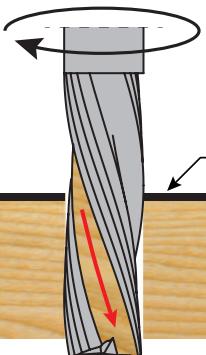
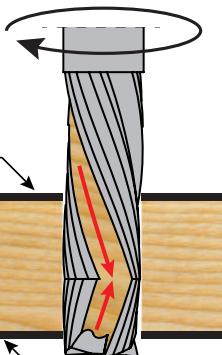
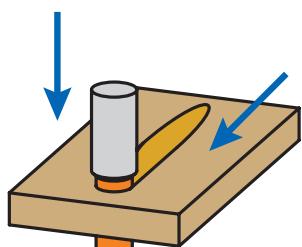
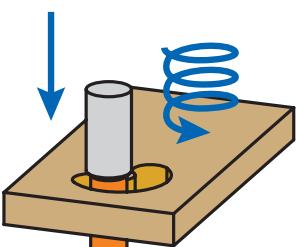
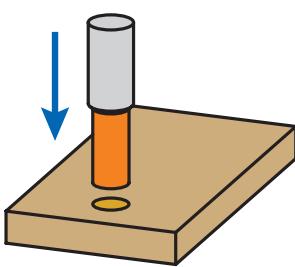


Deluxe packaging



SUPERIOR HIGH-STRENGTH STEEL

We use high-quality, solid bar stock sourced from Switzerland, which provides exceptional resistance to fatigue and abrasion.

CUTTING EDGE TYPE**STRAIGHT
BIT
RH****POSITIVE
SPIRAL
RH****NEGATIVE
SPIRAL
RH****UP-DOWN
SPIRAL
RH**EXCELLENT
FINISHEXCELLENT
FINISH**RECOMMENDED PLUNGING METHOD****RAMP PLUNGING****SPIRAL PLUNGING****AXIAL PLUNGING**

These methods are recommended for sizing and grooving tools.

Router bits with mainly negative cutting shear angles, negative spiral, and router bits without plunging cutter are not suitable for axial plunging!

PROBLEM SOLVING**PROBLEM****SOLUTIONS****Bad finishing**

- Cutting depth
- Vibrations

Cutting edge wear

- Rotation speed
- Vibrations

Cutting edge burns

- Rotation speed
- Number of cutting-edges

Cutting edge debris

- Cutting depth

Vibrations

- Rotation speed
- Cutting depth

Cutter breakage

- Feed speed
- Cutting depth
- Vibrations

INCREASE

- Rotation speed
- Dust extraction
- Number of cutting edges
- Clamping cutter/chuck

- Feed speed

- Feed speed

- Rotation speed
- Feed speed
- Dust extraction

- Machine stability
- Workpiece stability

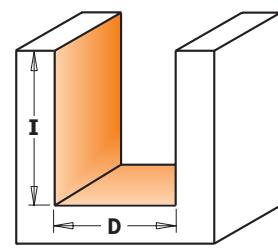
- Shank diameter
- Collet clamping
- Change tool material (solid carbide or Densimet®)

DECREASE

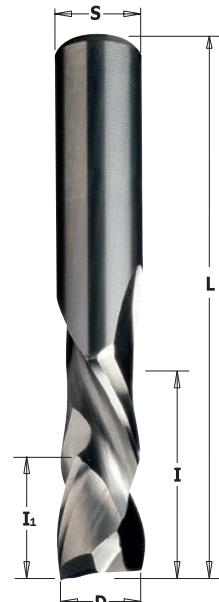
Solid Carbide Spiral Bits

Due to their spiral cutting edge which stays in continuous contact with the workpiece, these bits give a smooth, chatter-free cutting action, unlike conventional bits which have intermittent contact with the workpiece. Unsurpassed for cleaner cuts in ordinary or difficult materials, softwood, hardwood, plywood, composites etc. This new range of spiral bits with 6 - 8 - 12mm and 6,35 - 12,7mm shanks allow them to be used with a CNC router and hand-routers.

Test check yourself the extraordinary quality-price ratio of these bits!



Drawing is 1:1 scale



190 Upcut & Downcut Spiral

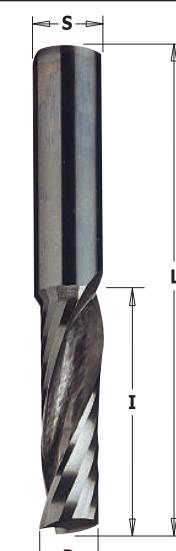
D mm	I mm	I ₁ Pos. mm	L mm	Z	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø9,52mm	ORDER NO. S=Ø10mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
8	32	7	80	2+2	10	190.080.11				
9,52	28,6	7	76,2	2+2	10		190.504.11			
10	32	7	80	2+2	10			190.100.11		
10	42	7	90	2+2	10			190.101.11		
12	42	7	90	2+2	10				190.120.11	
12	52	7	100	2+2	10				190.121.11	
12,7	25,4	16	76,2	2+2	10					190.505.11
12,7	28,6	16	76,2	2+2	10					190.506.11
12,7	34,9	16	88,9	2+2	10					190.507.11
12,7	41,3	16	101,6	2+2	10					190.508.11
<i>Up & Downcut Mortising Bits</i>										
9,52	22,2	4,8	76,2	2+2	10		190.513.11			
9,52	25,4	5,2	76,2	3+3	10		190.813.11			
12	25,4	5,2	83	3+3	10				190.320.11	
12,7	22,2	5,2	76,2	2+2	10					190.515.11
12,7	34,9	5,2	88,9	2+2	10					190.517.11



Excellent finish

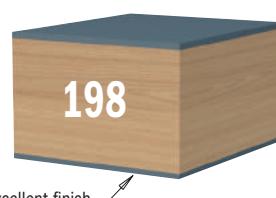
190

Excellent finish



198 Upcut

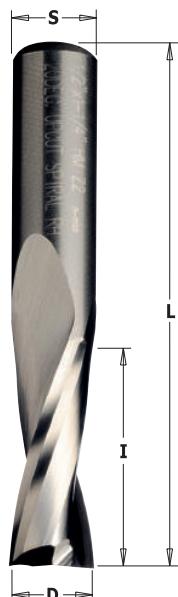
D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm
3,18	12,7	50,8	10		198.001.11		
4,76	15,87	50,8	10		198.005.11		
6	22	60	10	198.060.11			
6,35	19,05	50,8	10		198.007.11		
6,35	25,4	63,5	10		198.008.11		
8	22	70	10				198.080.11
8	32	80	10			198.081.11	
12	32	83	10				198.120.11



198

Excellent finish

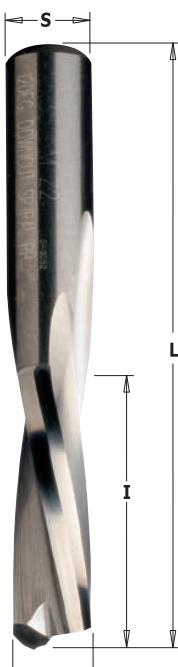




Excellent finish

191 Upcut Spiral

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
3	12	60	10	191.630.11		191.830.11		
3,18	12,7	50,8	10		191.001.11			
3,5	12	60	10	191.635.11				
3,97	12,7	50,8	10		191.003.11			
4	15	60	10	191.640.11		191.840.11		
4,76	19,05	50,8	10		191.005.11			
5	17	60	10	191.650.11		191.850.11		
6	27	70	10	191.060.11		191.860.11		
6,35	19,05	50,8	10		191.007.11			
6,35	25,4	63,5	10		191.008.11			
7	32	80	10			191.870.11		
7,94	25,4	76,2	10					191.501.11
8	22	70	10			191.080.11		
8	32	80	10			191.081.11		
8	42	90	10			191.082.11		
9	32	83	10				191.890.11	
9,53	31,75	76,2	10					191.503.11
10	32	80	10			191.800.11		
10	32	83	10				191.900.11	
10	42	90	10				191.901.11	
12	35	83	10			191.820.11	191.120.11	
12	42	90	10				191.121.11	
12	52	100	10				191.122.11	
12,7	31,75	76,2	10					191.505.11
12,7	38,1	88,9	10					191.506.11
12,7	50,8	101,6	10					191.507.11

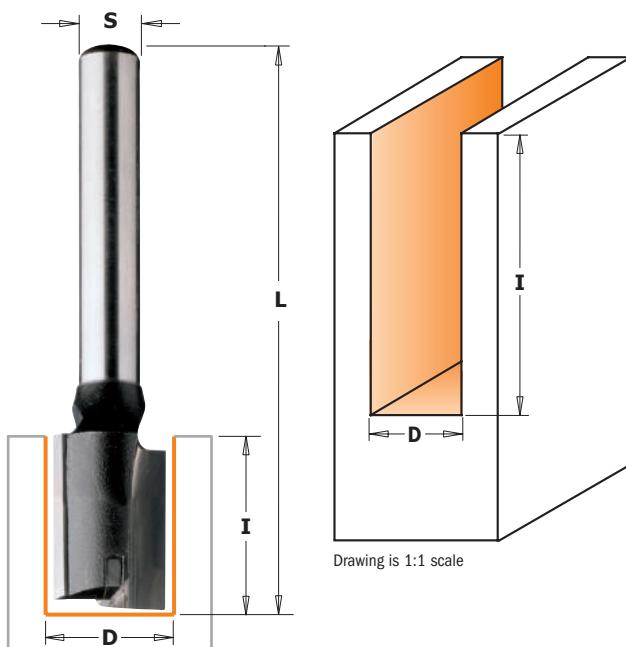


Excellent finish

192 Downcut Spiral

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
3	12	60	10	192.630.11		192.830.11		
3,18	12,7	50,8	10		192.001.11			
3,97	12,7	50,8	10		192.003.11			
4	15	60	10	192.640.11		192.840.11		
4,76	19,05	50,8	10		192.005.11			
5	17	60	10	192.650.11		192.850.11		
6	27	70	10	192.060.11		192.860.11		
6,35	19,05	50,8	10		192.007.11			
6,35	25,4	63,5	10		192.008.11			
7,94	25,4	76,2	10					192.501.11
8	22	70	10			192.080.11		
8	32	80	10			192.081.11		
8	42	90	10			192.082.11		
9,53	31,75	76,2	10					192.503.11
10	32	80	10			192.800.11		
10	32	83	10				192.900.11	
12	35	83	10			192.820.11	192.120.11	
12,7	31,75	76,2	10					192.505.11
12,7	38,1	88,9	10					192.506.11
12,7	50,8	101,6	10					192.507.11

Straight Bits with Centre Tip


174-177

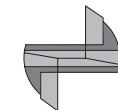

These industrial straight bits are made from stainless steel specifically created to withstand rigorous work on router machines and CNC routers.

The cutting edge allows you to execute any kind of plunge drilling and trimming jobs on soft or hardwood, wood composites and plastic or laminated materials.

APPLICATION: used for drilling, grooving or jointing solid wood and wood composites. Can be used on machining centres, CNC routers and hand-held routers equipped with chucks or adaptors.

Plunge Centre Tip

This particular kind of cutting edge guarantees long-lasting performance during plunging operations.


174

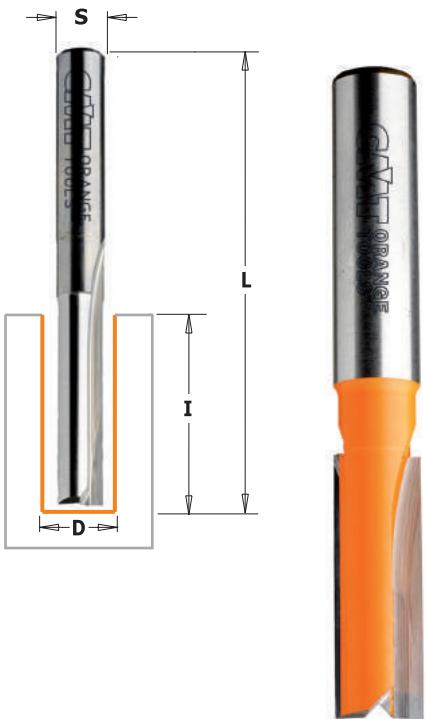
• HWM

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm
• 3	10	55	10	174.030.11
• 4	10	55	10	174.040.11
• 5	12	55	10	174.050.11
• 6	14	55	10	174.060.11
• 7	20	55	10	174.070.11
8	20	55	10	174.080.11
8	30	70	10	174.081.11
8	40	90	10	174.082.11
9	20	55	10	174.090.11
10	20	60	10	174.100.11
10	30	70	10	174.102.11
10	40	90	10	174.101.11
11	20	60	10	174.110.11
12	20	60	10	174.120.11
12	30	70	10	174.122.11
12	40	90	10	174.121.11
13	20	60	10	174.130.11
14	20	60	10	174.140.11
14	30	70	10	174.142.11
14	40	90	10	174.141.11
15	20	60	10	174.150.11
16	20	70	10	174.160.11
16	30	70	10	174.162.11
16	40	90	10	174.161.11
18	20	70	10	174.180.11
18	30	70	10	174.181.11
18	40	80	10	174.182.11
19	20	70	10	174.190.11
20	20	70	10	174.200.11
20	30	70	10	174.201.11
20	40	90	10	174.202.11
22	20	70	10	174.220.11
22	30	70	10	174.221.11
22	40	90	10	174.222.11
23,5	20	70	10	Y174.235.11
24	20	70	10	174.240.11
24	30	70	10	174.241.11
24	40	90	10	174.242.11
25	20	70	10	174.250.11
26	20	70	10	174.260.11
26	30	70	10	174.261.11
28	20	70	10	174.280.11
28	30	70	10	174.281.11
29	20	70	10	174.290.11
30	20	70	10	174.300.11

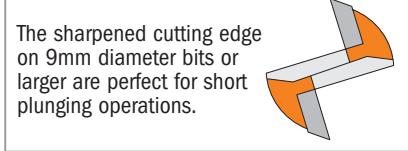
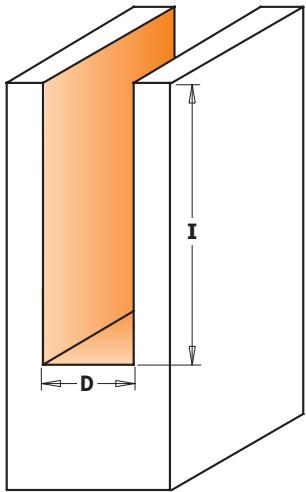
177

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm
10	35	90	10	177.100.11
12	35	90	10	177.120.11
12	50	100	10	177.121.11
14	35	90	10	177.140.11
16	35	90	10	177.160.11
16	60	110	10	177.161.11
18	35	90	10	177.180.11
18	60	110	10	177.181.11
20	35	90	10	177.200.11
22	35	90	10	177.220.11
24	35	90	10	177.240.11
25	35	90	10	177.250.11
26	35	90	10	177.260.11
28	35	90	10	177.280.11
30	35	90	10	177.300.11
35	35	90	10	177.350.11

new

**7/8/912**

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.

**Masterpack**

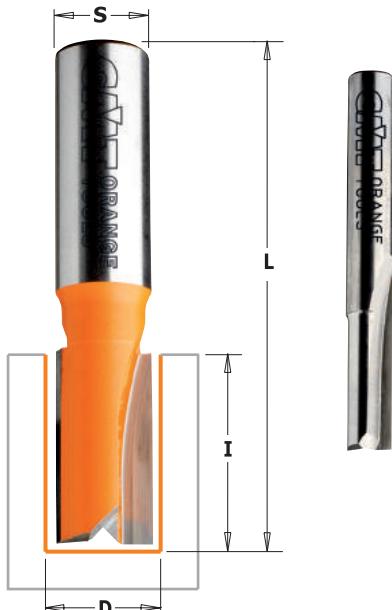
Drawing is 1:1 scale

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
• 3	11	60	10	712.030.11				
• 3,2	12,7	50,8	10		812.032.11			
• 4	12	60	10	712.040.11				
• 5	18	60	10	712.050.11				
• 6	25,4	60	10	712.060.11	812.060.11	912.060.11		
• 6,35	25,4	60	10		812.064.11			
• 8	31,7	60	10	712.080.11	812.080.11	912.080.11		
• 8	31,7	75	10				912.580.11	
9	31,7	75	10				912.590.11	
9,5	31,7	63,5	10		812.095.11			
9,5	31,7	73	10					812.595.11
10	31,7	60	10	712.100.11	812.100.11	912.100.11		
10	31,7	70	10					812.600.11
10	31,7	74	10				912.600.11	
11,1	31,7	82,5	10					812.611.11
12	31,7	60	10	712.120.11	812.120.11	912.120.11		
12	31,7	70	10					812.620.11
12	38,1	95	10				912.621.11	812.621.11
12	50,8	108	10				912.622.11	
12,7	31,7	70	10		812.127.11	912.127.11		
12,7	38,1	95	10					812.627.11
12,7	50,8	108	10					812.628.11
12,7	63,5	111	10					812.629.11
14	31,7	60	10	712.140.11	812.140.11	912.140.11		
14	31,7	70	10				912.640.11	
15	31,7	66	10	712.150.11	812.150.11	912.150.11		
15	31,7	70	10				912.650.11	
15,8	31,7	70	10		812.158.11			
16	31,7	66	10	712.160.11	812.160.11	912.160.11		
16	31,7	70	10				912.660.11	812.660.11
18	38,1	80	10				912.681.11	
19	38,1	82,5	10				912.690.11	812.690.11
19	50,8	92	10				912.691.11	812.691.11
20	38,1	80	10				912.701.11	
22	38,1	80	10				912.721.11	
10 pc. masterpack								
new 6,35	25,4	60						812.064.11-X10
12,7	50,8	108						812.628.11-X10

• HWM

new

Straight Bits

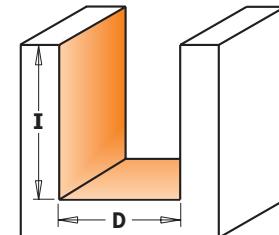


7/8/911

If you are looking to get the most out of your time and money through more efficient production, but want nothing less than a beautiful clean edge on your finished piece, then you definitely must include CMT straight bits in your collection. These razor-sharp, double-faced cutters perfectly synthesize the characteristics and advantages that define quality CMT products. Made of special Fatigue Proof® steel and micro-grain carbide, our straight bits can withstand even the heaviest work load and still give you a smooth, precise cut every time. You also get exceptional chip ejection to allow cleaner and more constant cutting. The surface of all CMT bits is protected with our trademark orange non-stick PTFE coating to help keep the bit from collecting resin, pitch and other residue.

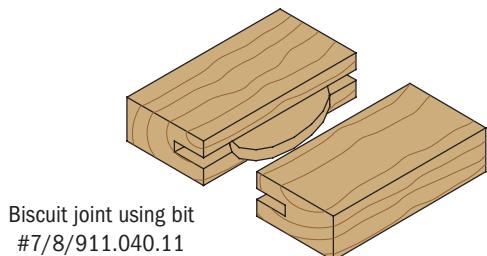
Every bit is subject to strict quality tests to guarantee perfect cutting tolerance, balance and concentricity. CMT bits allow production on an industrial scale using a variety of plywood, composites and natural woods.

CMT produces 91 types of straight bits in a wide range of diameters so you can find exactly what you want.

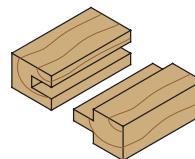


The sharpened cutting edge is perfect for short plunging operations.

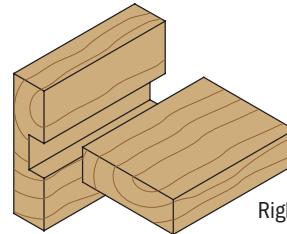
Drawing is 1:1 scale



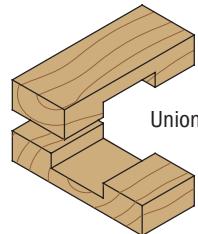
Biscuit joint using bit
#7/8/911.040.11



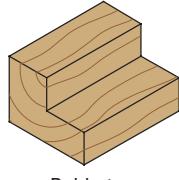
Tongue and groove joint



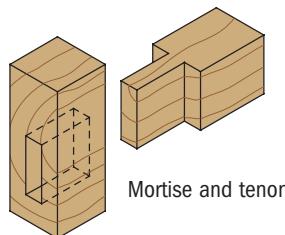
Right-angle joint



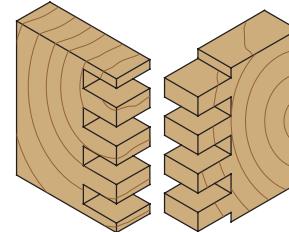
Union



Rabbet



Mortise and tenon



Box joint

Plywood Groove Set



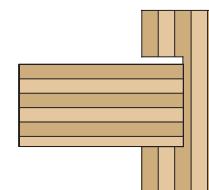
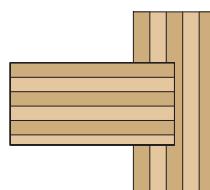
811

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 18.2mm bit for 19mm plywood, 12.3mm bit for 12.7mm plywood and our 6mm bit for 6.35mm plywood. No gaps. No sloppy joints. No worries!

These money-saving 3-bit sets are available with 12.7mm or 6.35mm shanks.

Example shown in 12,7mm thick plywood

This joint is made with the CMT 12,3mm straight bit for 12,7mm plywood. Notice the precise fit - no gaps.



This joint is made with a regular 12,7mm straight bit for 12,7mm plywood. Notice the extra space and ill fitting joint.

DESCRIPTION	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø12,7mm
Plywood Groove Set (Ø6 - Ø12,3 - Ø18,2mm)	5	811.001.11	811.501.11

Straight Bits, Short Series

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
• 2*	4	45	10	711.020.11	811.020.11			
• 3	8	45	10	711.030.11	811.030.11			
• 3	8	50	10			911.030.11		
• 3	8	58,3	10				911.530.11	
• 3,2	9,5	45	10		811.032.11			
• 4	10	58,3	10				911.540.11	
• 4	10	45	10	711.040.11	811.040.11			
• 4	10	50	10			911.040.11		
• 4,75	12,7	50,8	10		811.047.11			
• 5	12	50	10	711.050.11	811.050.11	911.050.11		
• 5	12	58,3	10				911.550.11	
• 6	16	50	10	711.060.11	811.060.11	911.060.11		
• 6	19	63,5	10				911.560.11	811.560.11
• 6,35	19	50,8	10		811.064.11			
• 6,35	19	57,2	10		811.065.11			
• 6,35	19	63,5	10					811.564.11
• 7	18	49	10	711.070.11	811.070.11	911.070.11		
• 7	18	63,5	10				911.570.11	
• 7,6	20	50	10				911.076.11	
• 8	20	50	10	711.080.11	811.080.11	911.080.11		
• 8	25,4	70	10		811.081.11			
• 8	25,4	70	10					811.581.11
9	20	48	10	711.090.11		911.090.11		
9,5	19	50,8	10		811.095.11			
9,5	25,4	63,5	10		811.096.11			
9,5	25,4	66,7	10					811.595.11
10	20	48	10	711.100.11	811.100.11	911.100.11		
10	25,4	63,5	10					811.600.11
11	20	48	10	711.110.11		911.110.11		
12	20	50	10	711.120.11	811.120.11	911.120.11		
12	25,4	63,5	10				911.620.11	811.620.11
12,3	25,4	57,2	10		811.123.11			
12,3	25,4	63,5	10					811.623.11
12,7	19	57,2	10		811.127.11			
12,7	25,4	66,7	10					811.627.11
12,7	31,7	82,5	10					811.628.11
13	20	57	10	711.130.11		911.130.11		
14	20	50	10	711.140.11	811.140.11	911.140.11		
14,2	14,2	57,2	10		811.142.11			
15	20	57,2	10	711.150.11	811.150.11	911.150.11		
15,8	19	66,7	10		811.158.11			
15,8	25,4	63,5	10					811.660.11
16	20	57,2	10	711.160.11	811.160.11	911.160.11		
16	25,4	63,5	10					811.661.11
17	20	50	10	711.170.11				
18	20	50	10	711.180.11	811.180.11	911.180.11		
18,2	25,4	57,2	10		811.182.11			
18,2	25,4	63,5	10					811.682.11
19	20	57,2	10	711.190.11	811.191.11	911.190.11		
19	25,4	63,5	10					811.690.11
19,85	25,4	59	10					811.700.11
20	20	50	10	711.200.11	811.200.11	911.200.11		
22	20	57,2	10	711.220.11	811.220.11	911.220.11		
24	20	50	10	711.240.11		911.240.11		
25	20	50	10	711.250.11		911.250.11		
25,4	19	50,8	10		811.254.11			
25,4	31,7	76,2	10					811.754.11
28,5	31,7	76,2	10					811.785.11
10 pc. masterpack								
9,5	25,4	63,5						811.096.11-X10

• HWM
* Z1



Masterpack

Straight Cutters with Threaded Shank



170-171-180-181

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=M12x1
6	18	60	1	170.060.11
8	23	60	1	170.080.11
10	23	60	1	170.100.11
11	23	60	1	170.110.11
12	23	60	1	170.120.11
14	23	60	1	170.140.11
15	25	60	1	170.150.11
16	25	60	1	170.160.11
18	25	60	1	170.180.11
20	25	60	1	170.200.11
22	25	60	1	170.220.11
24	25	60	1	170.240.11
25	25	60	1	170.250.11
26	25	60	1	170.260.11
28	25	60	1	170.280.11
30	25	60	1	170.300.11
35	25	60	1	170.350.11
8	35	67	1	171.080.11
10	35	67	1	171.100.11
12	35	67	1	171.120.11
14	35	67	1	171.140.11
16	35	67	1	171.160.11
18	35	67	1	171.180.11
20	35	67	1	171.200.11
22	35	67	1	171.220.11
12	45	77	1	180.120.11
16	45	77	1	180.160.11
18	45	77	1	180.180.11
20	45	77	1	180.200.11
16	60	92	1	181.160.11
20	60	92	1	181.200.11

TECHNICAL DETAILS:

- Super strength steel
- 2 HW alternating precision ground cutting edges [Z2+1]

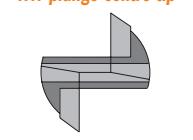
APPLICATION: ideal for cutting openings for electrical boxes and similar operations in solid wood, wood composites, plastics and laminates. Can be used on machining centres, CNC routers and hand-held routers equipped with chucks or adaptors.



173-182

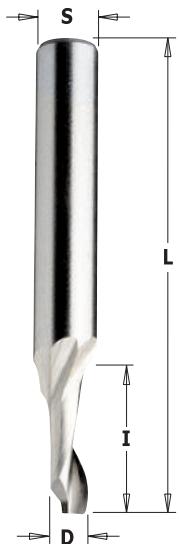
D mm	I mm	L mm	PACK QTY.	ORDER NO. S=M10
6	14	50	1	173.060.11
8	20	52	1	173.080.11
10	22	52	1	173.100.11
12	22	52	1	173.120.11
14	25	52	1	173.140.11
15	25	52	1	173.150.11
16	25	52	1	173.160.11
18	25	52	1	173.180.11
20	25	52	1	173.200.11
22	25	52	1	173.220.11
25	25	52	1	173.250.11
30	25	52	1	173.300.11
8	35	67	1	182.080.11
10	35	67	1	182.100.11
12	35	67	1	182.120.11
14	35	67	1	182.140.11
16	45	77	1	182.160.11
18	45	77	1	182.180.11
20	45	77	1	182.200.11

HW plunge centre tip



5% Co HS Spiral Bits for Aluminium Positive Single Flute

CMT ORANGE TOOLS®



188

D mm	I mm		L mm	PACK QTY.	ORDER NO. S=Ø8mm
3	12		60	50	188.030.51
4	12		60	50	188.040.51
4	40		100	1	188.041.51
5	14		60	50	188.050.51
5	40		100	1	188.051.51
6	14		60	50	188.060.51
6	40		100	1	188.061.51
7	14		60	50	188.070.51
8	14		80	50	188.080.51
8	40		100	1	188.081.51
9	14		80	50	188.090.51
10	14		80	50	188.100.51
12	14		80	50	188.120.51

**Suggested
MAX RPM 12.000**

TECHNICAL DETAILS:

- 5% Co premium solid HS
- 1 upcut spiral cutting edge
- Upward chip ejection

APPLICATION: these tools feature single flute design allowing efficient and effective carving on all types of aluminium. This translates into greater flexibility, enhanced productivity and superb quality finishing.

5% Co HS Spiral Bits for Aluminium Positive Single Flute for High Cutting Depth



189

D mm	I mm	I ₁ mm	L mm	S mm	PACK QTY.	ORDER NO.
4	46	16	90	8	1	189.040.51
5	35	18	80	8	50	189.050.51
5	35	14	120	8	1	189.051.51
5	55	16	90	8	1	189.052.51
6	45	16	90	8	1	189.060.51
8	68	14	100	8	1	189.080.51
8	55	14	80	8	50	189.081.51
10	95	14	120	10	1	189.100.51
10	70	30	100	10	1	189.101.51

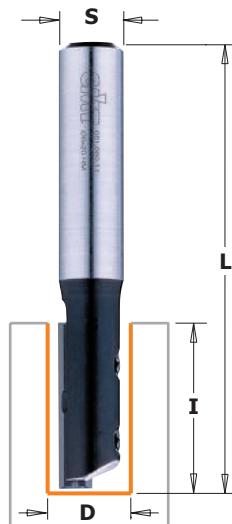
TECHNICAL DETAILS:

- 5% Co premium solid HS
- 1 upcut spiral cutting edge
- Upward chip ejection

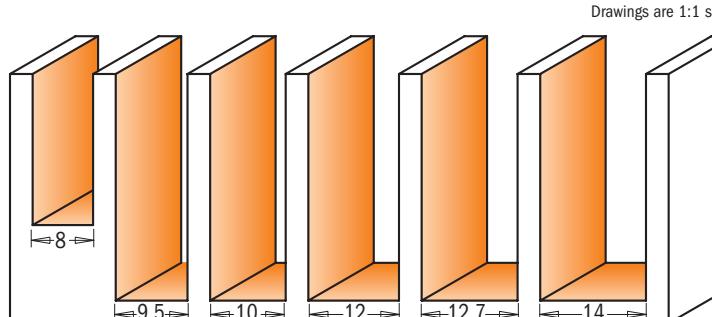
APPLICATION: these tools feature single flute design allowing efficient and effective carving on all types of aluminium. This translates into greater flexibility, enhanced productivity and superb quality finishing.

**Suggested
MAX RPM 12.000**

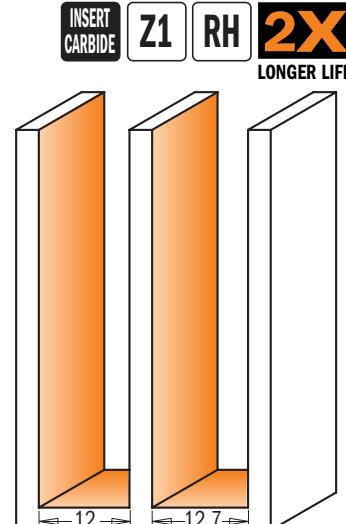
Straight Router Bits with Insert Knives


651-652

Straight router bit with one replaceable mini knife and fixing wedge. Radial and axial groove for better and safe knife insertion. For finishing, routing and grooving in board materials (DTD laminated, MDF and hardwood). For use on portable routers or CNC machining centres.



Drawings are 1:1 scale



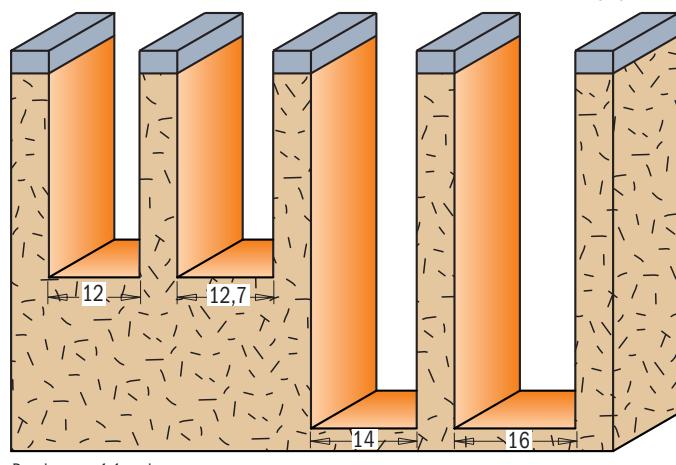
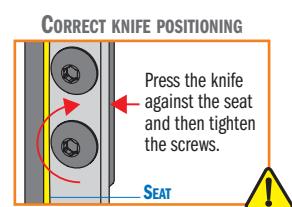
INSERT CARBIDE Z1 RH 2X LONGER LIFE

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
8	20	60	10	651.079.11				790.200.01 651.999.01 990.070.00 991.063.00
8	20	60	10		651.080.11			790.200.01 651.999.01 990.070.00 991.063.00
8	20	67	10			651.081.11	651.681.11	790.200.01 651.999.01 990.070.00 991.063.00
9,5	30	70	10	651.095.11				790.300.01 651.999.02 990.071.00 991.063.00
9,5	30	80	10				651.695.11	790.300.01 651.999.02 990.071.00 991.063.00
10	30	70	10		651.100.11			790.300.01 651.999.02 990.071.00 991.063.00
10	30	80	10			651.101.11	651.701.11	790.300.01 651.999.02 990.071.00 991.063.00
12	30	70	10		651.120.11			790.300.01 651.999.02 990.071.00 991.063.00
12	30	80	10			651.121.11	651.721.11	790.300.01 651.999.02 990.071.00 991.063.00
12	50	103	10			652.121.11	652.621.11	790.500.01 651.999.03 990.016.00 991.060.00
12,7	30	70	10	651.127.11				790.300.01 651.999.02 990.071.00 991.063.00
12,7	30	80	10				651.727.11	790.300.01 651.999.02 990.071.00 991.063.00
12,7	50	103	10				652.628.11	790.500.01 651.999.03 990.016.00 991.060.00
14	30	73	10		651.140.11			790.300.01 651.999.02 990.071.00 991.063.00

Straight Router Bits with Insert Knives for Laminates


652

Straight trimmer bits with one replaceable knife fixed by a Torx screw. A smart economical solution best suited for specialized applications requiring low downtime. The 29,5x9x1,5mm knives provide a 40mm cutting length by making multiple passes. For routing trimming and grooving on board materials (laminated chipboard, worktop panels and MDF). For use on portable routers.



Drawings are 1:1 scale

INSERT CARBIDE Z1 RH 2X LONGER LIFE

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
12	29,5	79	10	652.120.11			790.295.09 990.072.00 991.061.00
12	39,5	90	10		652.122.11		790.395.09 990.072.00 991.061.00
12,7	29,5	89	10			652.627.11	790.295.09 990.072.00 991.061.00
14	50	96	10		652.141.11		790.500.09 990.072.00 991.061.00
16	50	96	10			652.161.11	790.500.09 990.072.00 991.061.00

Straight Router Bits with Insert Knives

CMT ORANGE TOOLS®

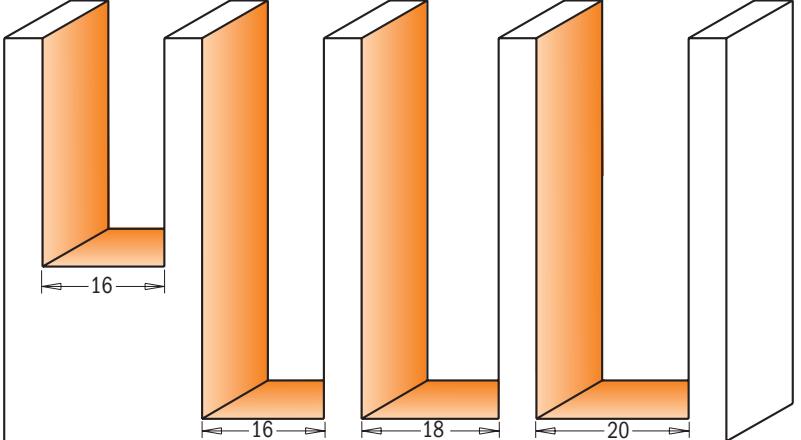
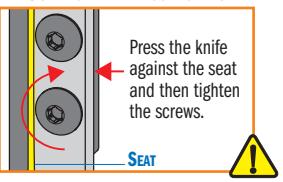


653

Straight router bits with a replaceable plunging knife and side knife fixed by a special Torx screw. The tool bodies are precisely balanced. For finishing, routing, plugging and grooving on board materials (laminated chipboards and MDF) and hardwood. For use on portable routers or CNC machining centres.



CORRECT KNIFE POSITIONING



Drawings are 1:1 scale

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	ORDER NO. S=Ø20mm	Spare parts
15,8	28,3	92	10			653.158.11		
15,8	48,3	112	10			653.159.11		
16	28,3	82	10	653.160.11				
16	28,3	92	10		653.161.11	653.661.11		
16	48,3	111,5	10		653.162.11	653.662.11		
18	48,3	111,5	10			653.681.11		
20	48,3	111,5	10			653.701.11		

Straight Router Bits with Insert Knives



655

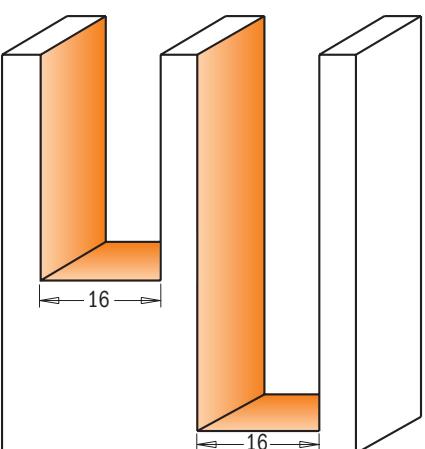


654

Straight router bit with two replaceable knives fixed by special Torx screws. The blades are sharpened at a 3° angle for better plunging operations.

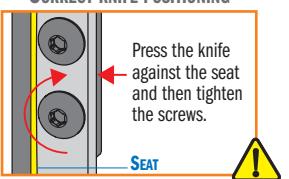


Drawing is 1:1 scale



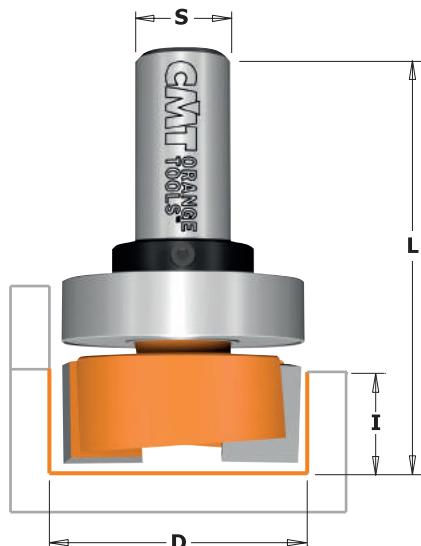
Drawings are 1:1 scale

CORRECT KNIFE POSITIONING



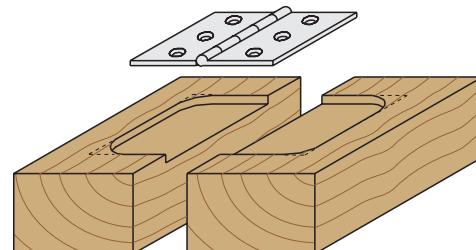
D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	ORDER NO. S=Ø20mm	Spare parts
16	28,3	76	10	654.160.11				
16	28,3	87	10		654.161.11	654.661.11		
16	48,3	105	10		654.162.11		654.662.11	
19	12	45	10	655.190.11				

Mortising Bits



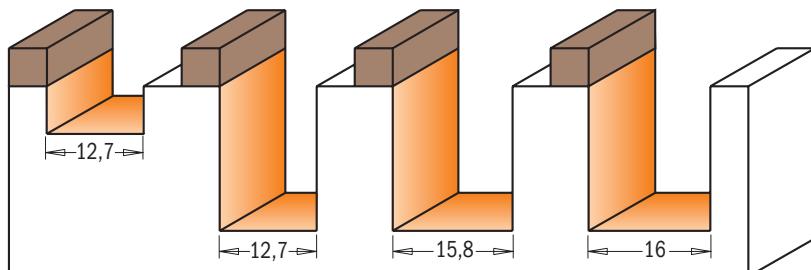
7/8/901B

Equipped with thick carbide tips and negative shear angle design, CMT mortising bits 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.

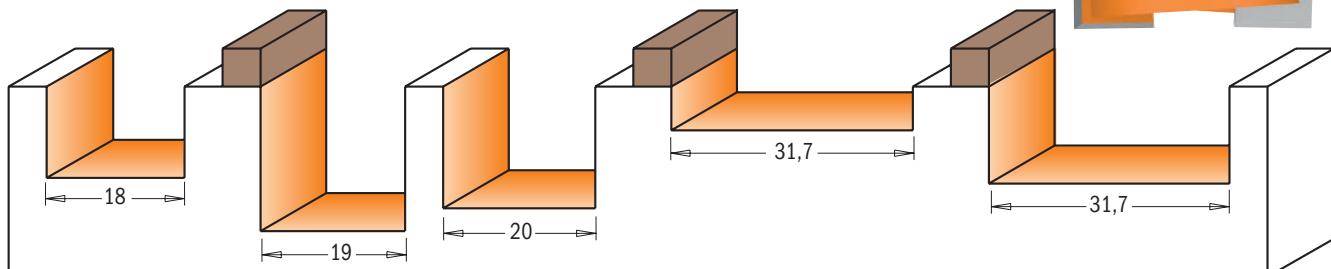


The CMT mortising bit is an essential tool for traditional hinge installation.

7/8/901



Drawings are 1:1 scale



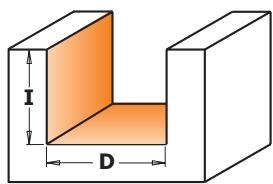
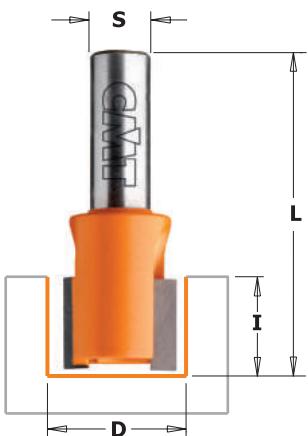
D mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
12,7	6,35	41	10		801.128.11			
12,7	19	54	10	701.127.11	801.127.11	901.127.11		
12,7	19	60	10				901.627.11	801.627.11
15,8	19	57	10		801.158.11			
16	19	54	10	701.160.11		901.160.11		
18	16	48	10	701.180.11		901.180.11		
19	19	54	10	701.190.11	801.190.11	901.190.11		
19	19	57	10					801.690.11
20	16	48	10	701.200.11		901.200.11		
31,7	5,7	63	10					801.818.11
31,7	12,7	48	10		801.317.11			
31,7	12,7	54	10				901.817.11	801.817.11
<i>With top bearing</i>								
12,7	6,35	41	10		801.128.11B			
12,7	19	54	10		801.127.11B			
15,8	19	57	10		801.158.11B			
16	19	54	10			901.160.11B		
19	19	54	10	701.190.11B				
19	19	54	10		801.190.11B			
31,7	5,7	63	10				801.818.11B	791.015.00
31,7	12,7	54	10				801.817.11B	791.015.00
<i>Spare parts</i>								
							791.010.00	541.001.00
							791.010.00	541.001.00
							791.009.00	541.001.00
							791.025.00	541.004.00
							791.007.00	541.003.00
							791.004.00	541.001.00
							991.056.00	991.056.00
							991.056.00	991.056.00
							991.056.00	991.056.00
							991.056.00	991.056.00



791.010.00	541.001.00	991.056.00
791.010.00	541.001.00	991.056.00
791.009.00	541.001.00	991.056.00
791.025.00	541.004.00	991.056.00
791.007.00	541.003.00	991.056.00
791.004.00	541.001.00	991.056.00
991.056.00	991.056.00	991.056.00

Hinge Recesser Bits

CMT ORANGE TOOLS®



Drawing is 1:1 scale

7/902

CMT hinge recesser bits are ideal for shallow lateral routing cuts such as recessing hinges.

SHOP TIPS: corners will require final square with a hand or a corner chisel.



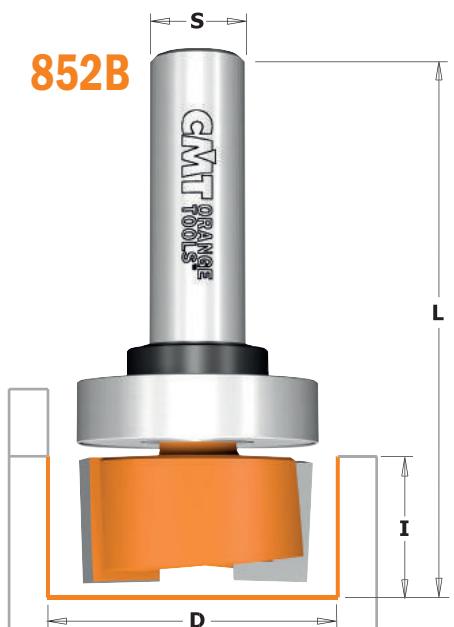
The special construction allows good chip clearance and plunging.



D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø8mm
12	12	38	10	702.120.11	902.120.11
13	12	38	10	702.130.11	902.130.11
14	12	38	10	702.140.11	902.140.11
15	12	38	10	702.150.11	902.150.11
16	12	38	10	702.160.11	902.160.11
18	12	38	10	702.180.11	902.180.11
20	11	38	10	702.200.11	902.200.11
22	11	38	10	702.220.11	902.220.11
23	11	38	10	702.230.11	902.230.11
24	11	38	10	702.240.11	902.240.11
25	11	38	10	702.250.11	902.250.11

Dado & Planer Bits

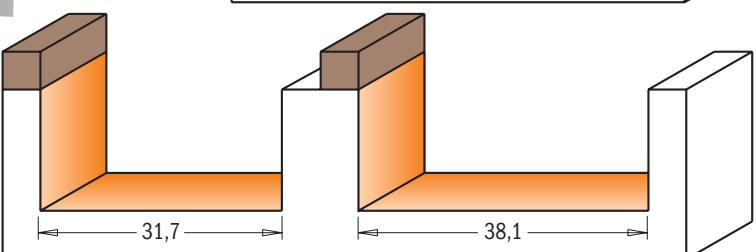
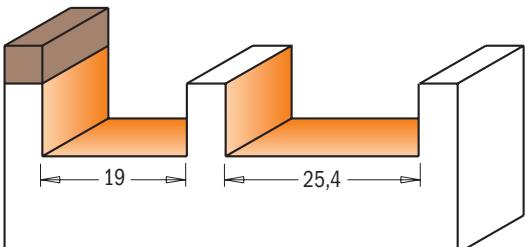
852B



852

Thick carbide tips and downward shear angle provide exceptional performance and quality. The negative shear angle on the cutting edges push the wood fibers down as they cut. This means perfect hinge mortises, no splintered edges or rough bottoms. Mortising is easy on both natural wood and wood composites. Our bits fit the most popular mortising jigs.

Drawings are 1:1 scale



D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø12,7mm
19	9,5	57	10	852.001.11	
19	9,5	63,5	10		852.501.11
25,4	9,5	57	10		852.502.11
31,7	15,8	70	10		852.503.11
38,1	15,8	70	10		852.504.11

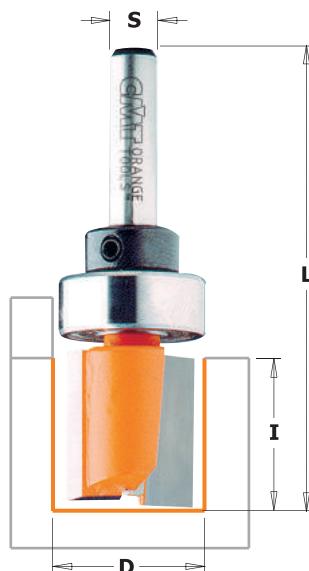
With top bearing

19	9,5	57	10	852.001.11B	
19	9,5	63,5	10		852.501.11B
31,7	15,8	70	10		852.503.11B
38,1	15,8	70	10		852.504.11B

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

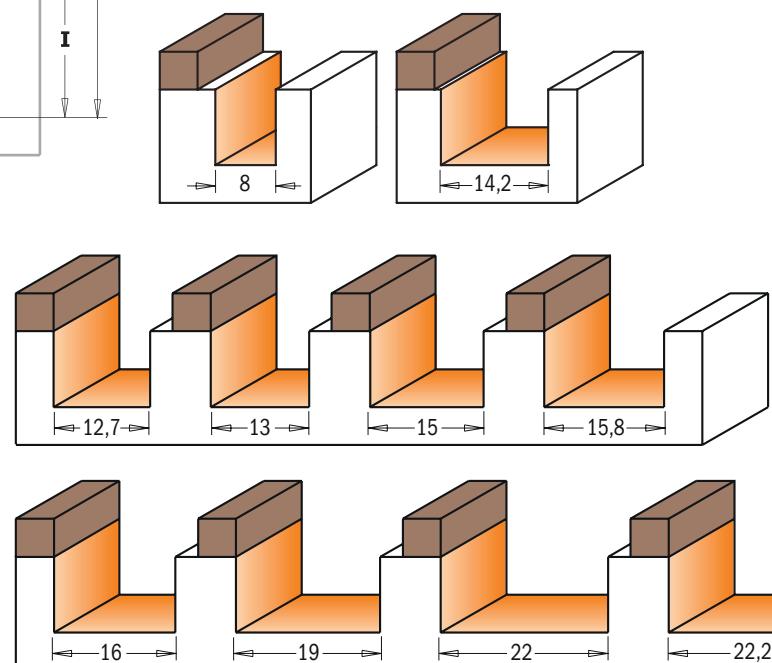
Pattern Bits



7/8/911B

Whether you're a full-time professional woodworker or part-time woodworking enthusiast, the CMT pattern bit is a valuable tool providing unlimited template routing possibilities. Pair up these double-fluted bits with a template of your choice and produce distinctive cabinets, furniture pieces, signs, toys and personalize any other creative project. Carbide tipped for long lasting performance, CMT pattern bits are also equipped with a top bearing providing you with a clear view throughout the routing process so you can work confidently and accurately.

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.



7/8/912B



Drawings are 1:1 scale

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
8	25,4	70	10		811.081.11B				791.010.00 541.001.00 991.056.00
12,7	19	57,2	10		811.127.11B				791.010.00 541.001.00 991.056.00
13	20	57	10	711.130.11B					791.023.00 541.003.00 991.056.00
14,2	14,2	57,2	10		811.142.11B				791.009.00 541.001.00 991.056.00
15	20	57	10	711.150.11B					791.024.00 541.003.00 991.056.00
15,8	12,7	58	10		811.159.11B				791.009.00 541.001.00 991.056.00
15,8	19	66,5	10		811.158.11B				791.009.00 541.001.00 991.056.00
16	20	57	10			911.160.11B			791.025.00 541.004.00 991.056.00
19	20	57	10	711.190.11B					791.007.00 541.003.00 991.056.00
19	20	57,2	10		811.191.11B				791.004.00 541.001.00 991.056.00
19	25,4	63,5	10					811.690.11B	791.011.00 541.002.00 991.056.00
22	20	57	10			911.220.11B			791.005.00 541.004.00 991.056.00
22,2	25,4	66,5	10					811.222.11B*	791.021.00 541.006.00 991.056.00
<i>Long Series</i>									
12,7	31,7	70	10		812.127.11B				791.010.00 541.001.00 991.056.00
15	31,7	66,5	10	712.150.11B					791.024.00 541.003.00 991.056.00
15,8	31,7	70	10		812.158.11B				791.009.00 541.001.00 991.056.00
16	31,7	66,5	10			912.160.11B			791.025.00 541.004.00 991.056.00
19	38,1	82,5	10				912.690.11B		791.011.00 541.005.00 991.056.00
19	38,1	82,5	10					812.690.11B	791.011.00 541.002.00 991.056.00
19	50,8	92	10				912.691.11B		791.011.00 541.005.00 991.056.00
19	50,8	92	10					812.691.11B	791.011.00 541.002.00 991.056.00

■ This item requires a slightly larger bearing than its cutting diameter

* Ø9,5mm shanks with Ø9,5/12,7mm bushings (799.001.00)

Pattern Router Bits with Insert Knives

CMT ORANGE TOOLS®



652B

Straight router bits with a replaceable knife fixed by a Torx screw. An economical solution for specialized applications requiring low downtime. They are equipped with top bearing for template use. For routing, trimming and grooving in board materials (laminated chipboards, worktop panels, MDF). For use on portable routers.

INSERT CARBIDE

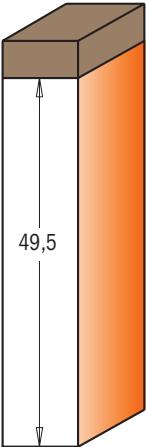
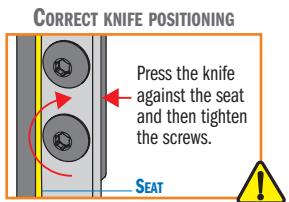
Z1

RH



2X

LONGER LIFE



Drawing is 1:1 scale

Spare parts

D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	790.495.09	990.072.00	991.061.00	791.011.00	541.002.00	991.056.00
19	49,5	100	10	652.690.11B	652.691.11B						

Pattern Router Bits with Insert Knives for Laminates



656

This bit type is 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 or CNC machining centres.

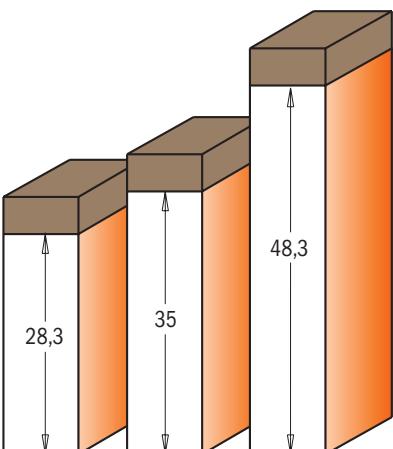
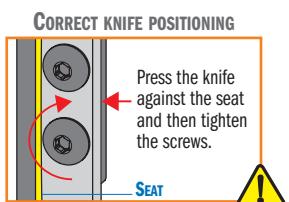
INSERT CARBIDE

Z2

RH



LONGER LIFE



Drawings are 1:1 scale

Spare parts

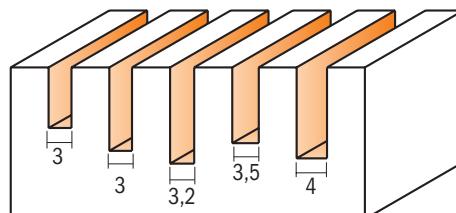
D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	790.283.12	990.076.00	991.061.00	791.025.00	541.004.00	991.056.00
16	35	80	10	656.160.11			790.283.12	990.075.00	991.061.00	791.034.00	541.004.00	991.056.00
19	28,3	69	10	656.190.11			790.283.12	990.075.00	991.061.00	791.011.00	541.002.00	991.056.00
19	28,3	79	10		656.691.11		790.283.12	990.075.00	991.061.00	791.011.00	541.002.00	991.056.00
19	48,3	100	10		656.692.11	656.693.11	790.483.12	990.075.00	991.061.00	791.011.00	541.002.00	991.056.00

Weatherseal Bits

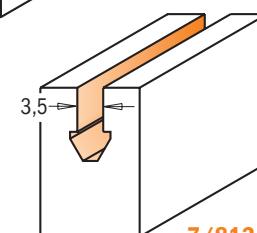


Make your house more energy efficient by insulating old doors and windows. A CMT Weatherseal bit is the perfect bit to re-groove door and window frames to accommodate wind blocking inserts. Made of solid carbide for strength and endurance.

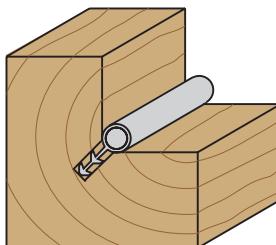
Special double-sided design lets you save money by offering two tips in one bit; with the same features as the one-sided weatherseal bit. Only available with a 3mm (1/8") cutting diameter.



Drawings are 1:1 scale

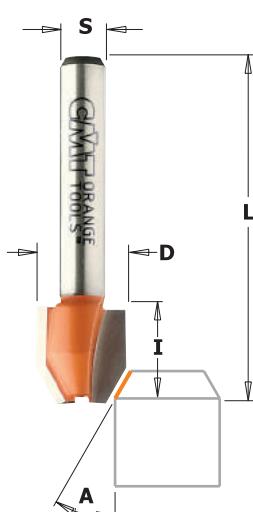


7/813.001.11



D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm
3	8	70	10	711.031.11	
3	11	60	10	712.030.11	
3,2	12,7	50,8	10		812.032.11
3,5	10	60	10	191.635.11	
4	12	60	10	712.040.11	
3,5	8	70	10	713.001.11	
3,5	8	63,5	10		813.001.11

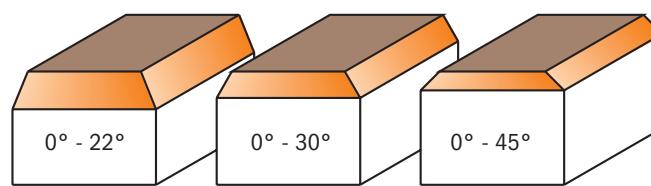
Combination Trimmer Bits



7/8/921

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.

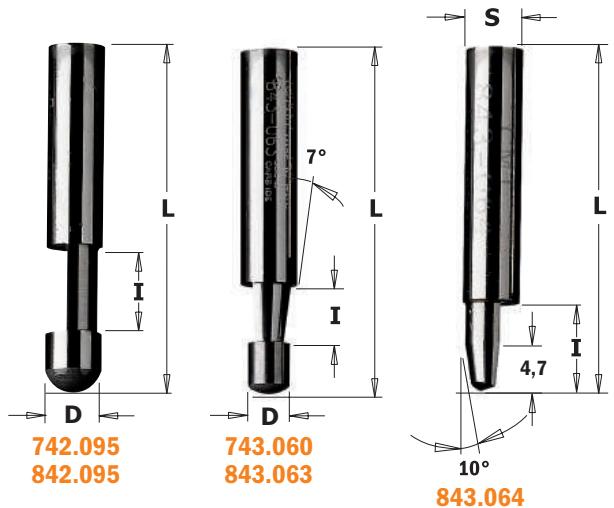
NOTICE: these bits must be used with an edge, separate guide or fence.



A	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	
0° - 22°	12	12,7	44,5	10	721.022.11	821.022.11		
0° - 30°	12	12,7	44,5	10	721.030.11	821.030.11	921.030.11	
0° - 45°	12	12,7	44,5	10	721.045.11	821.045.11		

Combination Trimmer Bits

CMT ORANGE TOOLS®



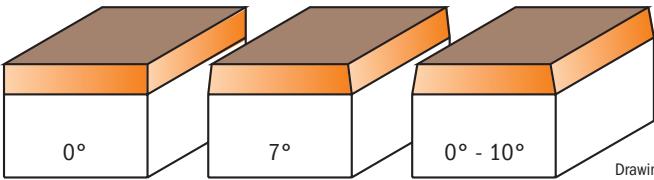
7/842 - 7/843

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.

NOTICE: these bits must be used with an edge, separate guide or fence.



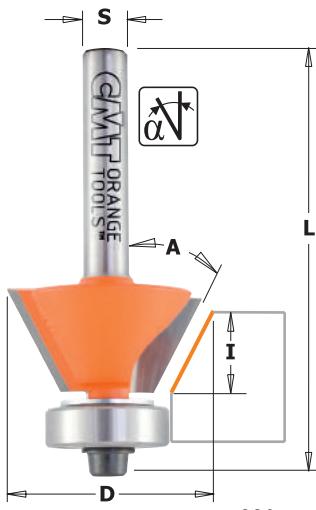
Masterpack



Drawings are 1:1 scale

A	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm
0°	6	9,5	38,1	10	742.095.11	
0°	6,35	9,5	38,1	10		842.095.11
7°	4,5 - 6	6	38,1	10	743.060.11	
7°	4,76 - 6,35	6,35	38,1	10		843.063.11
0° - 10°	6,35	9,5	38,1	10		843.064.11
50 pc. masterpack						
0°	6,35	9,5	38,1			842.095.11-X50
7°	4,76 - 6,35	6,35	38,1			843.063.11-X50

Combination Trimmer Bits



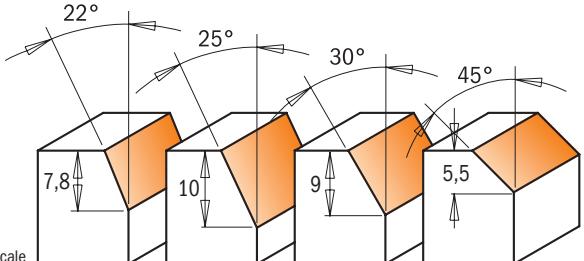
7/907 - 7/8/909 - 7/910

CMT's combination flush and bevel trim bits are perfect for executing superb precision finishing on laminates with ease. Achieve a great variety of angles without even changing the bit. Simply lower the bit cutting depth for precise right angle cuts or raise it to create rounded edges. Suitable for both soft and hardwood.

These bits include a ball bearing guide for easy template work and serve to protect your workpiece.

They feature two flutes for executing smoother cuts and for rounding off table legs and other soft areas on furniture susceptible to damage.

809.022
809.025
7/909.260
7/910.260



Drawings are 1:1 scale

HW Z2 Z3 RH

NON BLOCKING



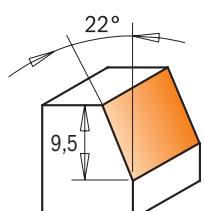
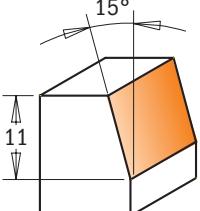
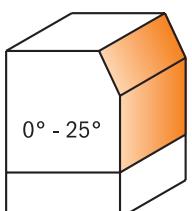
7/907.210



7/809.016



**809.023
Z3**

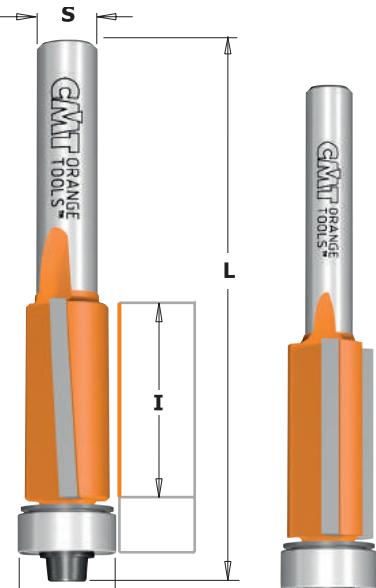


Spare parts



A	D mm	I mm	L mm	Z	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm
0° - 25°	19 - 24,5	16 (10+6)	56,5	2	10	707.210.11		907.210.11
15°	18,6	11	57	2	10	709.016.11		809.016.11
22°	12,7	7,8	47,6	2	10			809.022.11
22°	17,5	9,5	51	3	10			809.023.11
25°	19,05	10	52,4	2	10			809.025.11
30°	27	9	55	2	10	709.260.11		909.260.11
45°	27	5,5	51,5	2	10	710.260.11		910.260.11

Flush Trim Bits

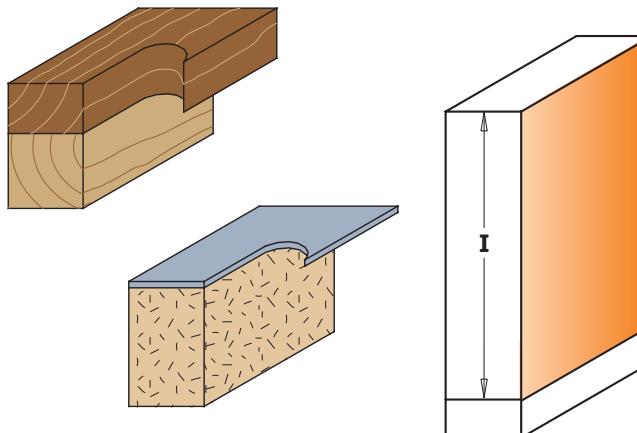


8/906.227.11
Z3

7/8/906

We have designed a series of truly indispensable bits available in a wide range of sizes for your woodworking needs. For precision work on laminates or quick template work with excellent finishing.

SHOP TIPS: these bits are excellent for making through mortises. Use a straight bit (#711.130.11) to groove the through mortise area, then use the drill bit (#517.130.31) to bore a through hole at the end of the groove. Turn the workpiece over to end the mortise. Use the flush trim bit with a cutting length slightly longer than the fillet, following the groove made on the opposite side of the workpiece with the ball bearing guide.



Drawing is 1:1 scale

Masterpack

• HWM

I mm	D mm	L mm	α	PACK Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm		Spare parts
•25,4	6,35	63,5	0°	10	706.064.11	806.064.11				791.035.00	990.060.00 541.008.00
12,7	9,5	55,5	0°	10	706.096.11	806.096.11	906.096.11			791.002.00	990.422.00 990.058.00
12,7	12,7	57,8	-5°	10	706.128.11	806.128.11	906.128.11			791.003.00	990.423.00 990.058.00
12,7	12,7	70,6	-5°	10				906.628.11	806.628.11	791.003.00	990.423.00 990.058.00
16	19	57,1	-5°	10	706.190.11		906.190.11			791.007.00	990.004.00
25,4	9,5	68,2	0°	10	706.095.11	806.095.11	906.095.11			791.002.00	990.422.00 990.058.00
25,4	12,7	70,7	-3°	10	706.127.11	806.127.11	906.127.11			791.003.00	990.423.00 990.058.00
25,4	12,7	71	0°	10		806.227.11	906.227.11			791.003.00	990.423.00 990.058.00
25,4	12,7	86,6	-3°	10			906.627.11	806.627.11		791.003.00	990.423.00 990.058.00
38,1	12,7	94	0°	10				906.629.11	806.629.11	791.003.00	990.423.00 990.058.00
50,8	12,7	104	0°	10				906.630.11	806.630.11	791.003.00	990.423.00 990.058.00
10 pc. masterpack											
25,4	9,5	68,2	0°			806.095.11-X10					
25,4	12,7	70,7	-3°			806.127.11-X10			806.627.11-X10		
38,1	12,7	94	0°						806.629.11-X10		

Spare parts

- 991.055.00 0,9mm hex key for screw (990.060.00)
- 991.057.00 3/32" hex key for screw (990.058.00)
- 991.062.00 2,5mm hex key for screw (990.004.00)

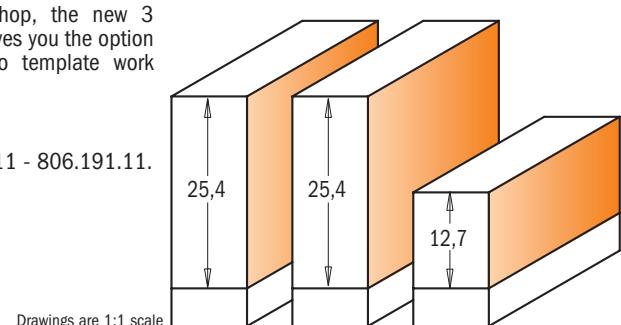
Flush Trim Bit Set



806

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

Set contains:
806.095.11 - 806.096.11 - 806.191.11.



Drawings are 1:1 scale

DESCRIPTION	BIT SIZES mm	PACK Qty.	ORDER NO. S=Ø6,35mm
Flush Trim Bit Set	9,5x12,7 - 9,5x25,4 - 19x25	5	806.001.11

Super-Duty Flush Trim Bits

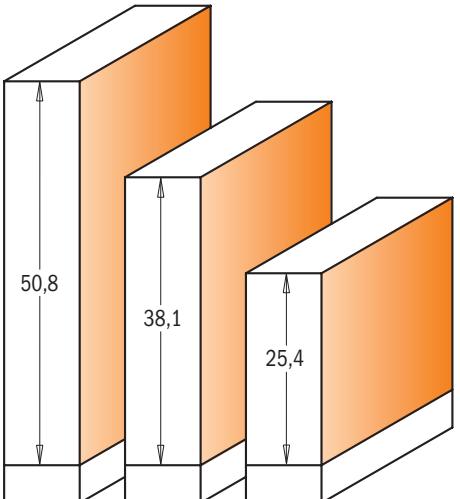
CMT ORANGE TOOLS®



7/8/906

These new super duty bits represent the finest in the extensive line of CMT flush trim bits with ball bearing guides. A negative shear angle cutting edge and 19mm cutting diameter set CMT flush trim bits apart from standard bits. Work quickly and safely to get superior finishing with absolute minimal chipping.

SAFETY TIPS: dust and chips from laminate materials are hazardous to your health and safety. Always wear a dust mask and eye protection when routing.

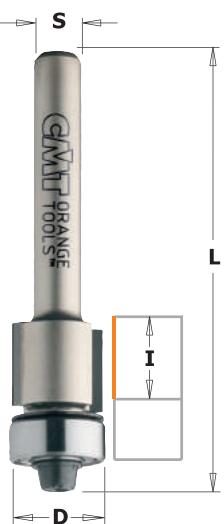


Drawings are 1:1 scale

I mm	D mm	L mm	α	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
25,4	19	73,9	-5°	10	706.191.11	806.191.11	906.191.11			791.004.00 541.550.00 990.058.00
25,4	19	86,5	-5°	10				906.691.11	806.691.11	791.004.00 541.550.00 990.058.00
38,1	19	92,9	-3°	10				906.692.11	806.692.11	791.004.00 541.550.00 990.058.00
50,8	19	109,5	-3°	10				906.690.11	806.690.11	791.004.00 541.550.00 990.058.00

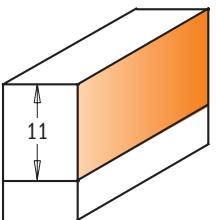
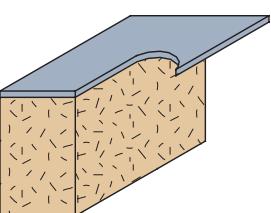
Spare parts 991.057.00 3/32" hex key for screw (990.058.00)

DP Flush Trim Bits for Laminates



7/8/906 XTREME

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.

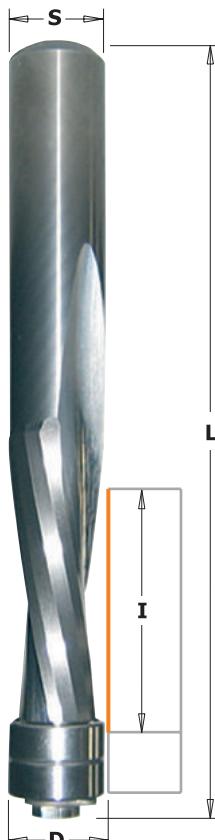


40X
LONGER LIFE
THAN CARBIDE

Drawing is 1:1 scale

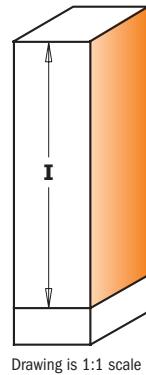
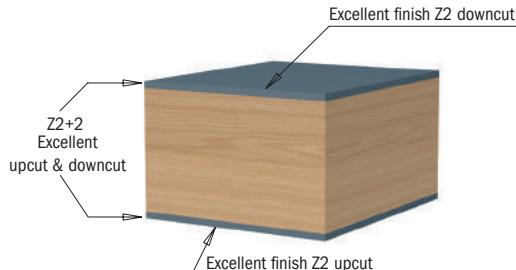
I mm	D mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	Spare parts
11	12,7	58,1	10	706.128.61	806.128.61	906.128.61	990.423.00 791.003.00 990.058.00 991.057.00

Double-Bearing Spiral Flush Trim Bits



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.



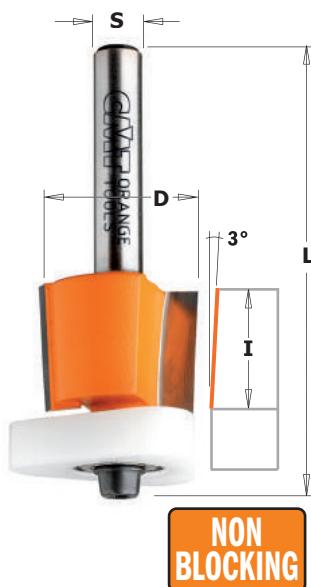
Drawing is 1:1 scale

Spare parts



I mm	D mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	
Z2+2 Upcut & Downcut								
42	12,7	114	10			190.127.11B	190.508.11B	791.010.00 541.301.00
Z2 Upcut								
25,4	6,35	76,2	10	191.064.11B	191.008.11B			791.035.00 541.350.00
31,7	12,7	89	10			191.505.11B	791.010.00 541.301.00	
50,8	12,7	114	10			191.127.11B	191.507.11B	791.010.00 541.301.00
Z2 Downcut								
31,7	12,7	89	10			192.505.11B	791.010.00 541.301.00	
50,8	12,7	114	10			192.127.11B	192.507.11B	791.010.00 541.301.00

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



7/8/907

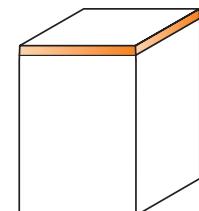
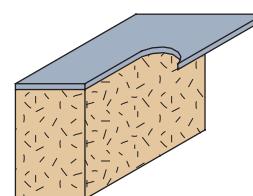
3 in 1 new flush trim bits with Delrin® Triangular bearings are your best partner for laminate trimming. In fact, it solves three of the most common problems that occur when flush trimming:

- 1) 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!

3-in-1 bits are ideal on plastic laminates as well as aluminium laminates!

Patent No. D628,218

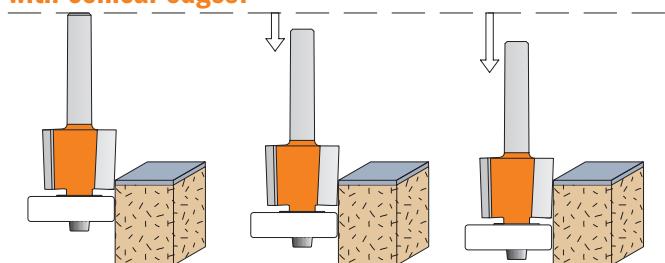
- Extended guide surface
- Non-freezing
- Non-scratch surface



Drawing is 1:1 scale

Perfect trimming with conical edges!

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.



I mm	D mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm		Spare parts
12,7	12,7	54,2	10	707.128.11	807.128.11	907.128.11			990.422.00 791.042.00 990.058.00 991.057.00
15,87	19	59,3	10	707.190.11	807.190.11	907.190.11			990.423.00 791.043.00 990.058.00 991.057.00
15,87	19	65,7	10				807.690.11		990.423.00 791.043.00 990.058.00 991.057.00

Flush Trim Bits with Insert Knives

CMT ORANGE TOOLS®

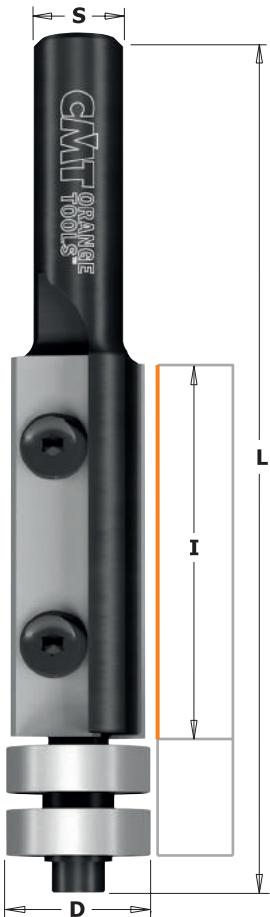
INSERT
CARBIDE

Z2

RH

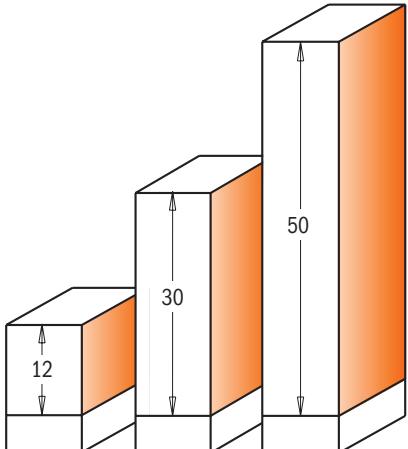
2X

LONGER LIFE

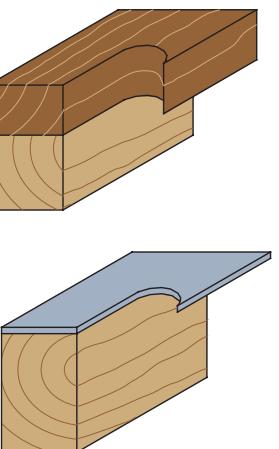


657.9

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.



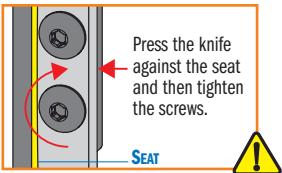
Drawings are 1:1 scale



657.1



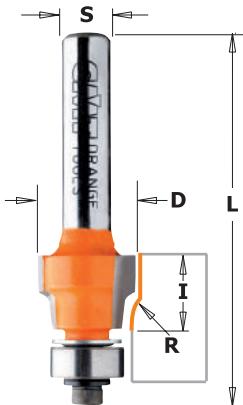
CORRECT KNIFE POSITIONING



I mm	D mm	L mm	PACK Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
12	19	57	10	657.194.11	657.192.11	657.190.11			790.120.00 990.075.00 991.061.00 791.007.00
30	19	76	10	657.195.11					790.300.00 990.075.00 991.061.00 791.007.00
30	19	85	10			657.191.11			790.300.00 990.075.00 991.061.00 791.007.00
30	19	87	10					657.692.11	790.300.00 990.075.00 991.061.00 791.007.00
50	19	112	10				657.991.11	657.992.11	790.500.00 990.075.00 991.061.00 791.007.00

Spare parts
990.410.00 Ø4,2/Ø9mm shield for M4 screws
990.052.00 M4x6mm TCEI screws
991.067.00 3mm hex key
541.514.00 Ø6,4mm shield

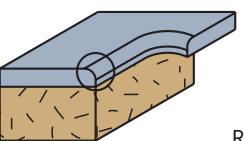
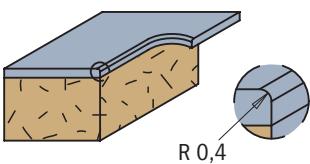
FILE-FREE Flush Trim Bits for Laminate



8/907

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!

Drawings are 1:1 scale



HW **Z2** **RH**

D mm	I mm	R mm	L mm	PACK Qty.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	Spare parts
12,7	9,5	0,4	52	10	807.004.11	907.004.11	990.422.00 791.002.00 990.058.00 991.057.00
12,7	9,5	1,6	52	10	807.015.11	907.015.11	990.422.00 791.002.00 990.058.00 991.057.00

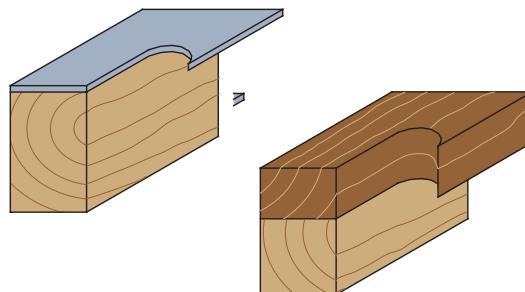
Pattern/Flush Trim Bits with Insert Knives



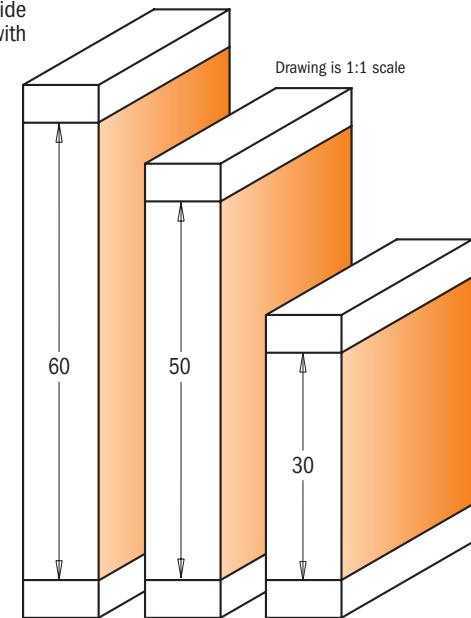
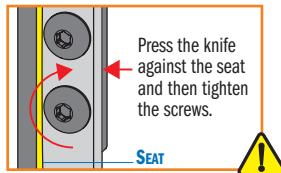
657B

A flush trim bit combined with a pattern bit and fixed with Torx screws. The blades are sharpened on both sides and can provide extra new edges. Guided flush trim bits type 657 are equipped with top and bottom ball bearing guides.

Recommended for flush and finishing operations.



CORRECT KNIFE POSITIONING



Drawing is 1:1 scale

I mm	D mm	L mm	Pack Qty.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
30	19	90	10	657.191.11B			790.300.00 990.075.00 791.007.00 990.052.00 791.034.00 541.004.00
30	19	90	10		657.692.11B		790.300.00 990.075.00 791.007.00 990.052.00 791.011.00 541.002.00
50	19	110	10		657.993.11B	657.994.11B	790.500.00 990.075.00 791.007.00 990.052.00 791.011.00 541.002.00
60	19	120	10		657.995.11B	657.996.11B	790.600.00 990.075.00 791.007.00 990.052.00 791.011.00 541.002.00

Spare parts 990.410.00 Ø4,2/Ø9mm shield for M4 screws
991.067.00 3mm hex key

991.061.00 T15 Torx key
991.056.00 1,5mm hex key

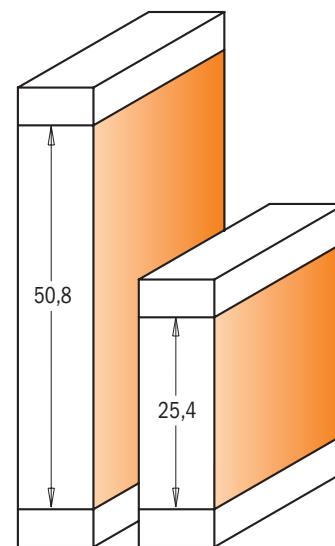


Flush Trim Router Bits with Double Bearing

806/906B

The innovative two-flute router bits are equipped with a double bearing and feature a down shear design allowing cleaner, smoother cuts on a variety of materials.

Now its no longer necessary to flip or move your tool during routing operations. This tool is particularly effective when routing curved elements along or against the grain.



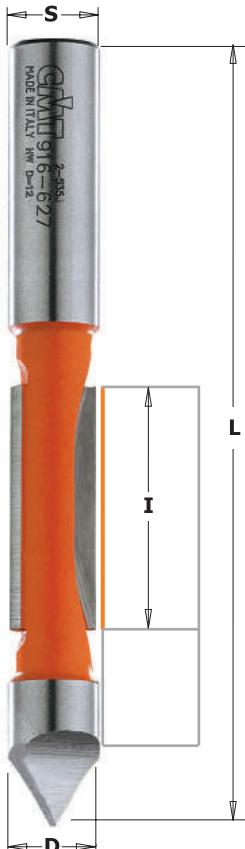
Drawings are 1:1 scale



I mm	D mm	L mm	α	Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
25,4	19	86,5	-5°	10	906.691.11B		791.004.00 541.550.00 990.058.00 991.057.00 791.011.00 541.005.00
25,4	19	86,5	-5°	10		806.691.11B	791.004.00 541.550.00 990.058.00 991.057.00 791.011.00 541.002.00
50,8	19	109,5	-3°	10	906.690.11B		791.004.00 541.550.00 990.058.00 991.057.00 791.011.00 541.005.00
50,8	19	109,5	-3°	10		806.690.11B	791.004.00 541.550.00 990.058.00 991.057.00 791.011.00 541.002.00

Panel Pilot Bits with Guide

CMT ORANGE TOOLS®



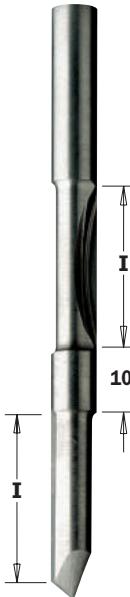
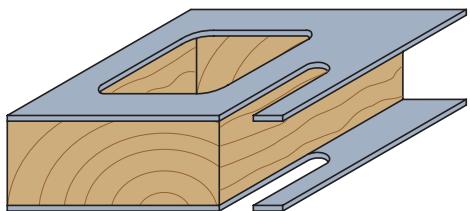
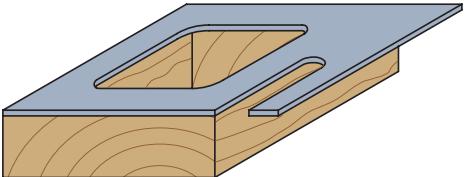
7/8/916

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 plunges 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 of laminates and HPL panels such as Formica®, Wilsonart®, Weiss®, FunderMax®.

SAFETY TIPS: always use extra caution when working near electrical outlets and boxes - always disconnect the current. Make sure the bit does not go so deep as to cut the wires.

HWM HW Z1 Z1+1 Z2 RH

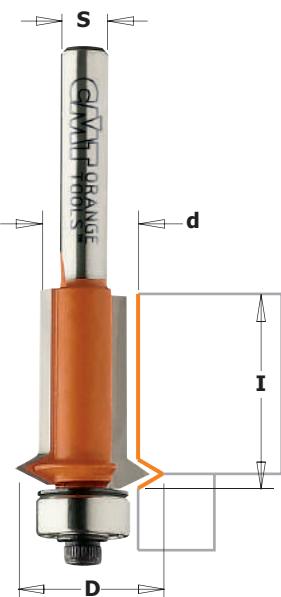
716.061



Masterpack

• HWM

D mm	I mm	L mm	Z	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
6	19	64	1	10	716.060.11				
•6	19	60	1	10	716.060.21				
•6	18+18	70	1+1	10	716.061.11				
6,35	19	64	1	10		816.064.11			
8	19	64	1	10			916.080.11		
9,53	25,4	78	2	10		816.095.11			
12	31,7	102	2	10				916.627.11	
12,7	31,7	102	2	10					816.627.11
10 pc. masterpack									816.627.11-X10
12,7	31,7	102	2	10					

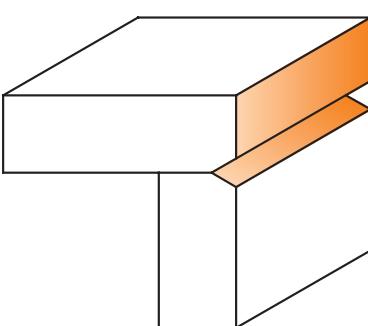


Panel Pilot Bits with Guide

7/8/953

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 the hinge joint to hide the seam.

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



Drawing is 1:1 scale

HW Z2 RH

Spare parts



d mm	D mm	I mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	990.423.00	791.003.00	990.058.00	991.057.00
12,7	19	25,4	10	753.001.11	853.001.11	953.001.11	953.501.11	853.501.11	990.423.00	791.003.00	990.058.00	991.057.00

The CMT Grand Rabbet Set



8/935.503

"The Grand Rabbet" by CMT is an investment that shows your commitment to quality. This CMT product will deliver years of reliable service under normal use. For safe and trouble-free results please observe the following instructions and safety precautions.

The complete kit (item code 835-935.503.11), will enable you to produce 17 different rabbet sizes including rabbets for under-sized plywood applications.

For rabbet sizes over 12,7mm (1/2"), make the cuts in several shallow passes until the desired depth is achieved.

Available in 12mm and 12,7mm shanks.

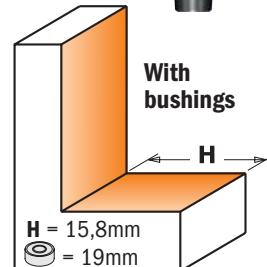
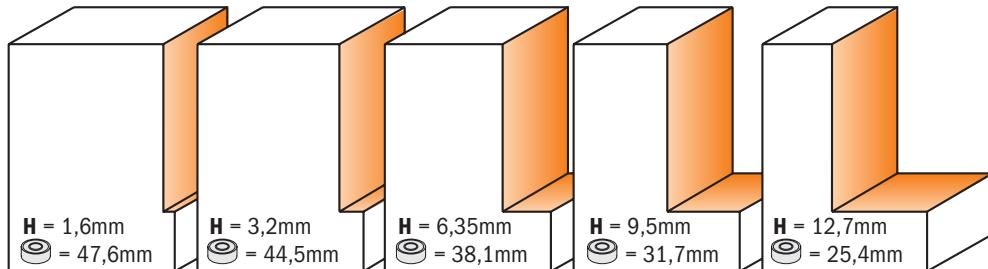


S

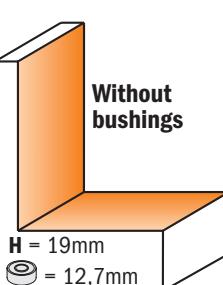
8/935.990



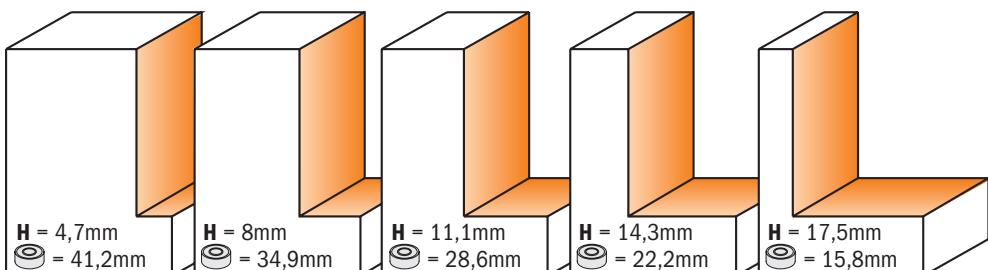
Order no. 791.705.00



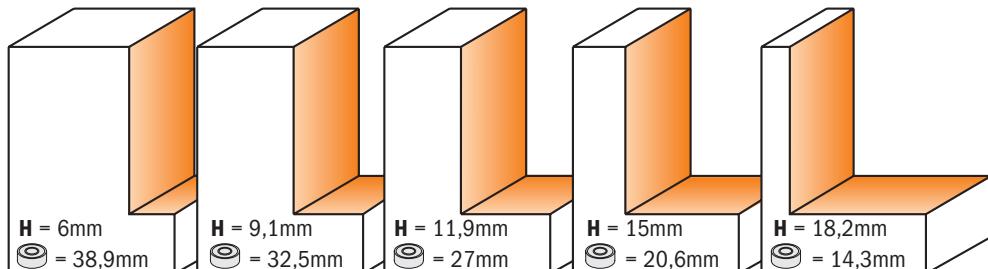
H



Order no. 791.706.00



Order no. 791.707.00



DESCRIPTION

PACK QTY.

ORDER NO.
 $S=\varnothing 12\text{mm}$

ORDER NO.
 $S=\varnothing 12,7\text{mm}$

The CMT Grand Rabbet Set ($\varnothing 50,8 \times 22,2\text{mm}$)

1 935.503.11

835.503.11

SET CONTAINS: The Grand Rabbet (bit only) with bushing $\varnothing 19\text{mm}$
5 pcs. Bushing kits for bearing ($H=1,6 - 3,2 - 6,35 - 9,5 - 12,7\text{mm}$ rabbets)
5 pcs. Bushing kits for bearing ($H=4,7 - 8 - 11,1 - 14,3 - 17,5\text{mm}$ rabbets)
5 pcs. Bushing kits for bearing ($H=6 - 9,1 - 11,9 - 15 - 18,2\text{mm}$ rabbets)
Bushing $\varnothing 50,8\text{mm}$
Kit with screw, shields and keys

935.990.11

835.990.11

791.705.00

791.705.00

791.706.00

791.706.00

791.707.00

791.707.00

799.517.00

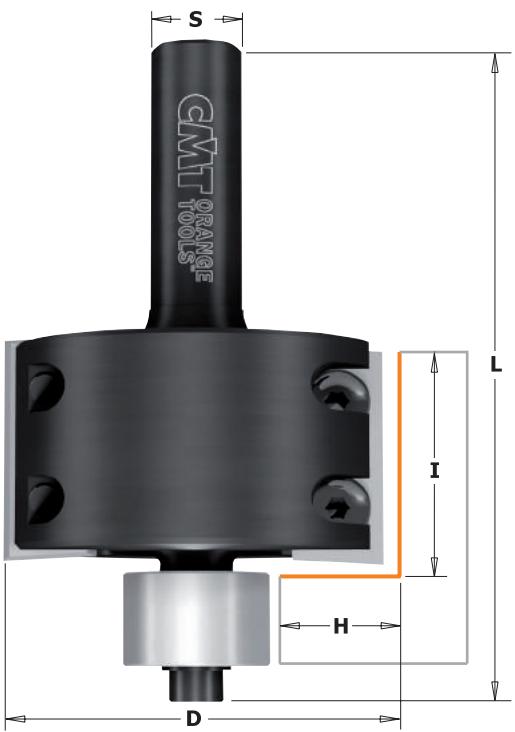
799.517.00

990.452.00

990.452.00

Grand Rabbeting Bits with Insert Knives

CMT ORANGE TOOLS®



660.9

"The Grand Rabbet" by CMT is an investment that shows your commitment to quality. This CMT product will deliver years of reliable service under normal use. The collar sets (791.705.00-791.706.00-791.707.00) will enable you to produce 17 different rabbet sizes including rabbets for under-sized plywood applications. For rabbet sizes over 12,7mm (1/2"), make the cuts in several shallow passes until the desired depth is achieved. Available in 12mm and 12,7mm shanks.

INSERT CARBIDE

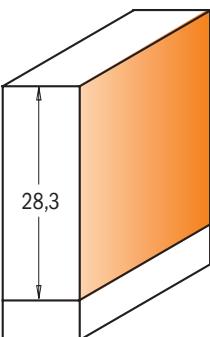
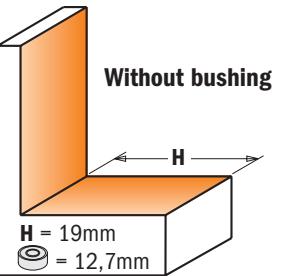
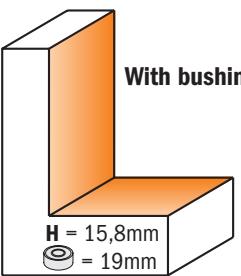
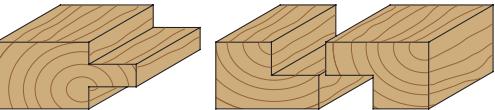
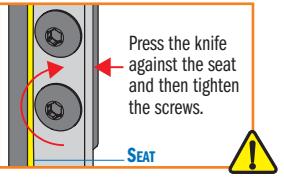
Z2

RH



2X LONGER LIFE

CORRECT KNIFE POSITIONING



Drawing is 1:1 scale

H mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
16	50,8	28,3	87	10	660.990.11	660.991.11	790.283.12 990.075.00 991.061.00 791.010.00

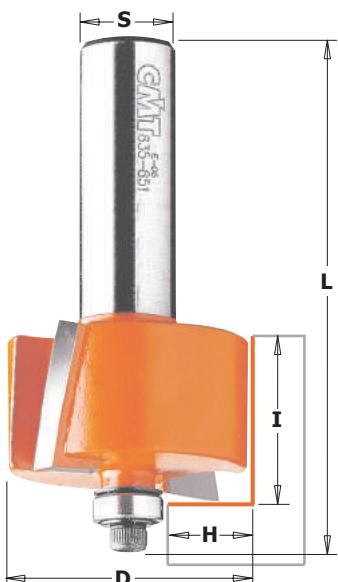
Spare parts

- 541.514.00 Ø6,4mm stop collar
- 799.503.00 Ø19,05mm bushings
- 990.410.00 Ø4,2/Ø9mm shield for M4 screw
- 990.052.00 M4x6mm TCEI screw
- 991.067.00 3mm hex key
- 990.469.00 Kit screw, shield and key

Optional:

- 799.517.00 Bushing for flush trim Ø50,8mm
- 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)

Rabbeting Bits

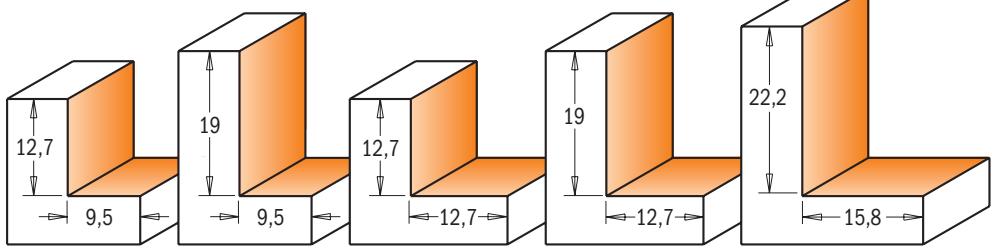


7/8/935

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.

You can even re-groove old window frames to fit insulated glass panes with the extra long CMT 19mm (3/4") rabbeting bit.

Other possibilities are illustrated below and on the following pages. Look at our slot cutters and round over bits for ideas on how to put extra finishing touches on all your grooving and rabbeting projects.



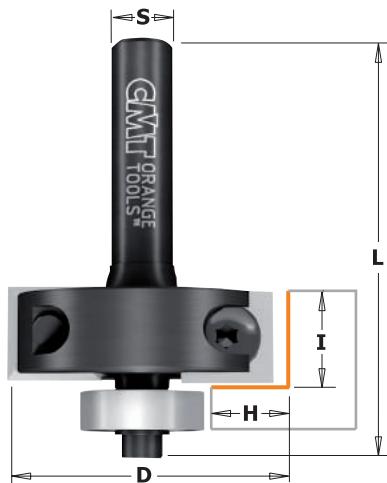
H mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
9,5	31,7	12,7	58,4	10	735.317.11	835.317.11	935.317.11			990.423.00 791.003.00 990.058.00
9,5	31,7	12,7	61,2	10				935.817.11	835.817.11	990.423.00 791.003.00 990.058.00
9,5	31,7	19	64,8	10	735.318.11		935.318.11			990.423.00 791.003.00 990.058.00
12,7	34,9	12,7	59,4	10	735.350.11	835.350.11	935.350.11	935.850.11	835.850.11	990.422.00 791.002.00 990.058.00
12,7	34,9	19	65,8	10				935.851.11	835.851.11	990.422.00 791.002.00 990.058.00
15,8	50,8	22,2	77,8	10				935.990.11	835.990.11	990.408.00 791.010.00 990.058.00

Spare parts

- 991.057.00 3/32" hex key
- 799.503.00 19,05mm bushings

541.514.00 2mm spacer (8/935.990.11)

Rabbeting Bits with Insert Knives


660

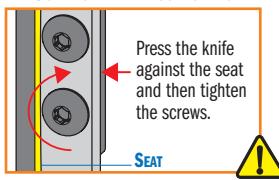
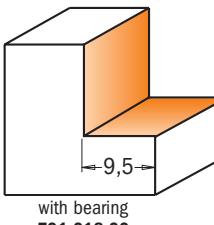
Rabbeting bits with two replaceable knives fixed by special Torx screws. The blades are sharpened on all four sides and increase efficiency when working with board materials.

Rabbeting bits are equipped with ball bearing guides for rabbeting width H= 9,5mm.

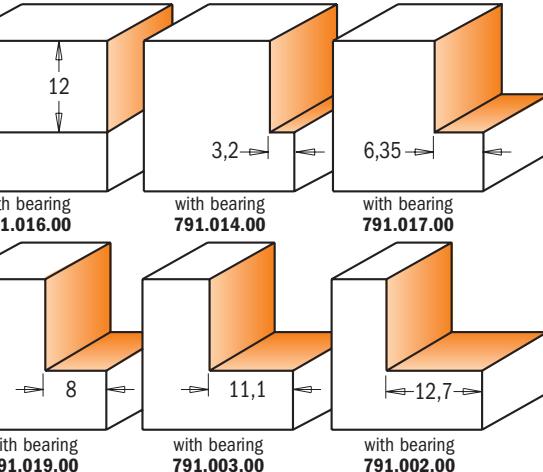
You can also choose bearings for rabbeting width 12,7 - 11,1 - 8 - 6,35 - 3,2 - 0mm.

For chipboards, hardwood or MDF.

For use on portable routers.

CORRECT KNIFE POSITIONING

Standard


with bearing 791.018.00


Spare parts 990.463.00 Kit with screw, shield and key

Drawings are 1:1 scale

H mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm	Spare parts
9,5	34,9	12	55	10	660.351.11	660.350.11		790.120.00 990.075.00 991.061.00 791.018.00
9,5	34,9	12	65	10			660.851.11	790.120.00 990.075.00 991.061.00 791.018.00

Spare parts 990.400.00 Ø3.2/Ø7mm shield for M3 screw
541.552.00 Ø3.25/Ø15.8mm shield for M3 screw
990.051.00 M3x6mm TCEI screws

 990.053.00 M3x10mm TCEI screws
990.054.00 M3x16mm TCEI screws
991.062.00 Hex key 2,5mm


Rabbeting Sets

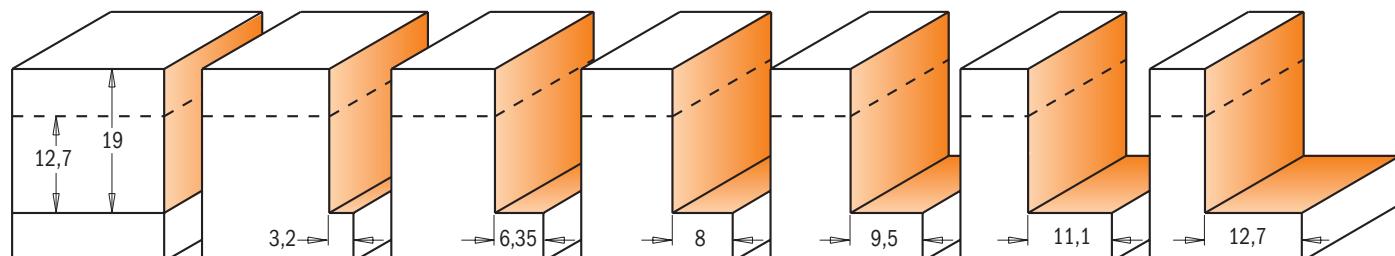
7/8/935.001


CMT rabbeting sets allow you to make a limitless number of cuts by adjusting the cutting height on your router and changing the bearing on the bit.

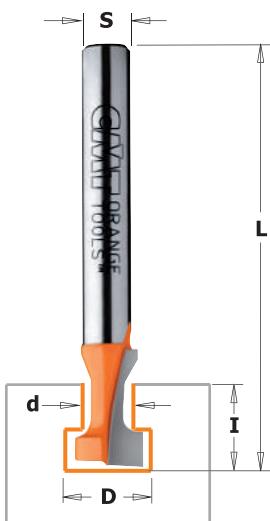

791.703.00

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. Each set comes complete with one rabbeting bit and six interchangeable ball bearing guides.

Drawings are 1:1 scale



H mm	D mm	I mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
0-12,7	34,9	12,7	5	735.001.11	835.001.11	935.001.11	935.501.11	835.501.11
0-12,7	34,9	19	5				935.502.11	835.502.11



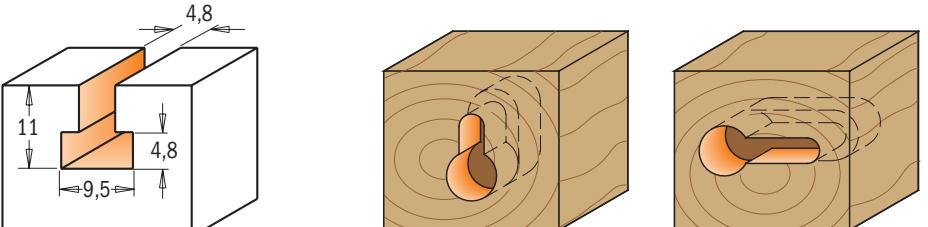
7/8/950.001

With the CMT keyhole bit you can make holes that keep your frames, plaques or any wall hanging perfectly straight and attached to the wall.

The bit bores an entry hole in the wood, then proceeds to cut a 4,8mm hole and finishes by boring a larger opening under the surface. The perfect way to securely mount wall hangings on screws and nails.

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

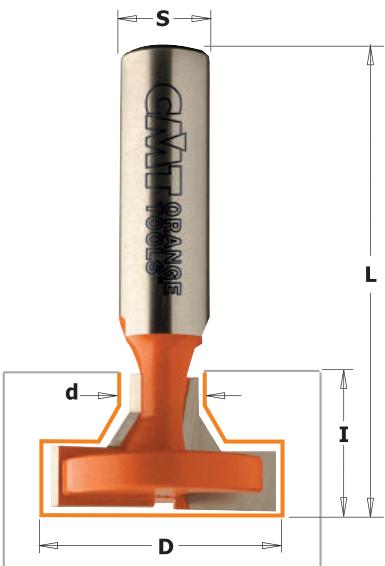
SHOP TIPS: Recommended for use with a plunge router.



Drawing is 1:1 scale

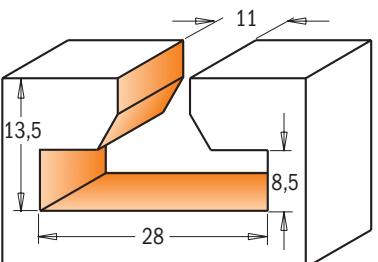
D mm	d mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
9,5	4,8	11	54	10	750.001.11	850.001.11	950.001.11	950.501.11	850.501.11

T-Slot Bits

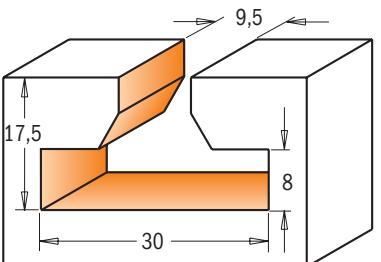


8/950.6

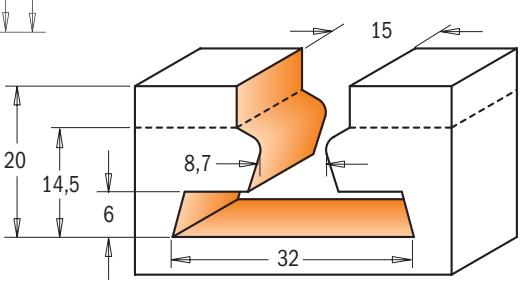
HW Z2 Z1+1 RH



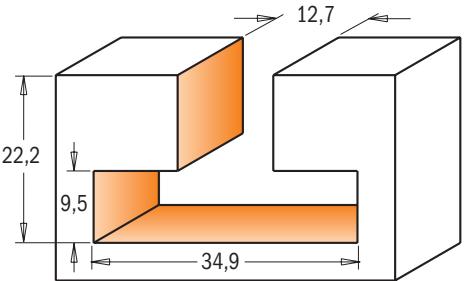
8/950.603



8/950.601



950.604

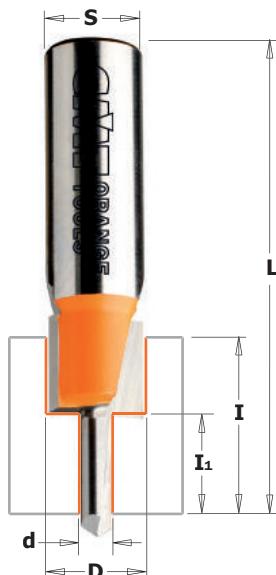


8/950.602

Drawings are 1:1 scale

D mm	d mm	I mm	L mm	Z	PACK QTY.					ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
28	11	13,5	56,3	2	10					950.603.11	850.603.11
30	9,5	17,5	60,3	2	10					950.601.11	850.601.11
32	8,7-15	20	66	1+1	10					950.604.11	
34,9	12,7	22,2	63,5	2	10					950.602.11	850.602.11

Screw Slot Bits

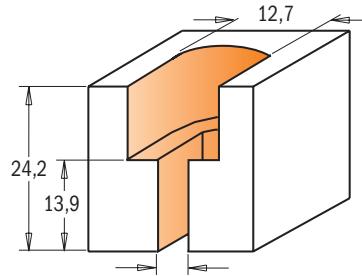


**913.101.11
813.601.11**

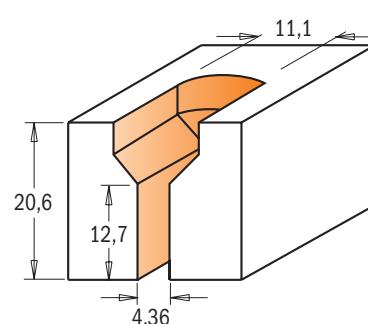
8/913

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

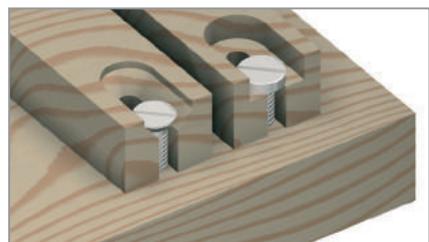
These screw-slot bits let you create screw slots so that panels can be held in place but are able to slide back and forth without splitting the wood or breaking the screw securing them.



Drawing is 1:1 scale

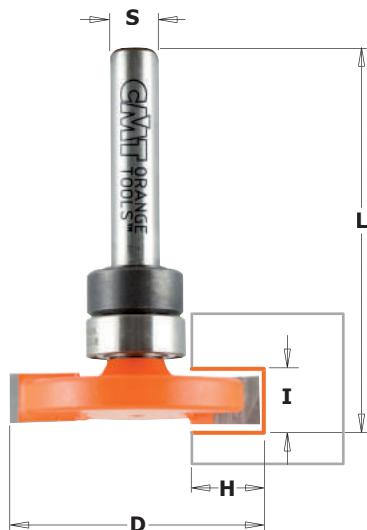


**913.201.11
813.701.11**



D mm	d mm	I ₁ mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
11,1	4,36	12,7	20,6	63,5	10	913.201.11	813.701.11
12,7	4,36	13,9	24,2	63,5	10	913.101.11	813.601.11

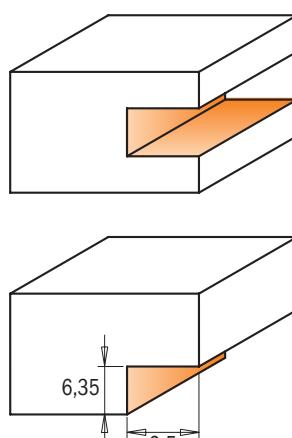
Flooring Router Bits



822.023B - 822.024B

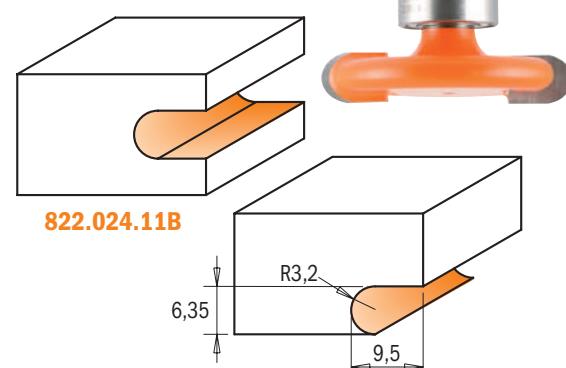


CMT now offers you these industrial quality carbide-tipped router bits for flooring and inlay applications. They easily and smoothly run through solid and timber wood while cutting edges and remain sharp even after several passes 822.024.11B item number also features rounded edges to produce 3,2mm (1/8") radius inlays. These bits are equipped with a stop collar and a bearing.



822.023.11B

Drawings are 1:1 scale

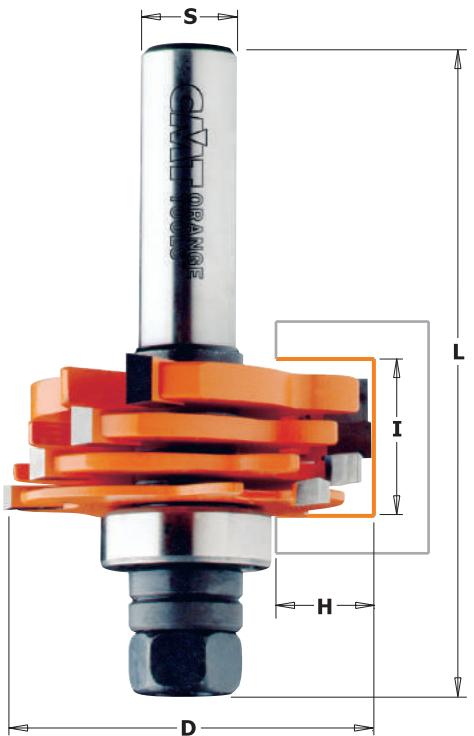


822.024.11B

Spare parts

D mm	I mm	H mm	R mm	L mm	Pack Qty.	ORDER NO. S=Ø6,35mm	Part	Part	Part
31,75	6,35	9,5		47,6	10	822.023.11B	791.010.00	541.001.00	990.005.00
31,75	6,35	9,5	3,2	47,6	10	822.024.11B	791.010.00	541.001.00	990.005.00

Three Wing Slot Cutter Set


8/900.506

Create slots, grooves and rabbets in materials from 3,2mm to 18mm in depth by using the adjustable CMT Three Wing slot cutter set. See chart below for details on spacing and correct cutter combinations. Ideal for biscuit joints and milling perfect tongue and groove joints.

This set includes:

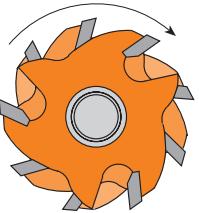
- 4 carbide tipped cutters 3,2mm, 4mm, 4,8mm, 6,4mm
- 1 arbor 12mm or 12,7mm
- 1 ball bearing (22mm) for 12,7mm cut
- 17 shims: (8x0,1mm - 4x0,5mm - 3x1mm and 2x4mm)

SAFETY TIPS: never use the slot cutter set without shims between the cutters.

The distance between the cutters can vary from 1mm to 1,7mm. A shim must also be positioned between the ball bearing and the cutters.

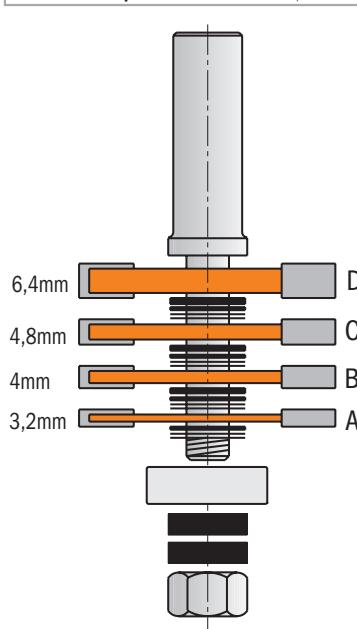
SHOP TIPS: the bearings kit 791.711.00 makes 6,35mm and 9,5mm cutting depths.

NOTE: The carbide edges of the cutters should never touch; arrange the shims as illustrated below. Use only the thicknesses provided in the set. Be sure all cutters are assembled in the proper right rotational direction below. Looking down the arbor the cutters will turn clockwise.



Cutter combinations	Cutter height mm		mm
A	3,2		
B	4		
C	4,8		
D	6,4		
A + B	6,4	a	7,1
A + C	7,2	a	7,9
A + D	8,8	a	9,5
B + C	8	a	8,7
B + D	9,6	a	10,3
C + D	10,4	a	11,1
A + B + C	10,4	a	11,8
A + B + D	11,9	a	13,3
A + C + D	12,7	a	14,1
B + C + D	13,5	a	14,9
A + B + C + D	15,9	a	18

Use shims to adjust cut width: MIN.1mm - MAX 1,7mm



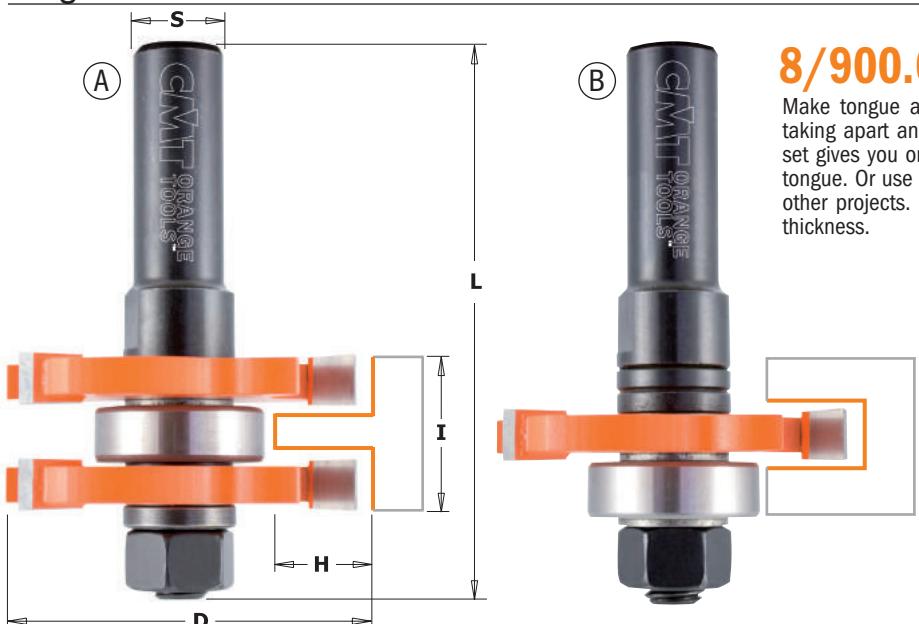
I mm	D mm	H mm	L mm	Pack Qty.	Order No. S=Ø12mm	Order No. S=Ø12,7mm	Spare parts
3,2-18	47,6	12,8	81	10	900.506.11	924.128.00	791.005.00
3,2-18	47,6	12,8	81	10		800.506.11	824.128.00

Spare parts

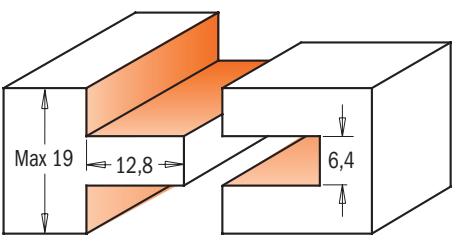
- 541.515.00 0,1mm spacer
- 541.517.00 0,5mm spacer
- 541.518.00 1mm spacer
- 541.501.00 4mm spacer

Optional:
791.711.00 Kit with two 28,5mm and 34,9mm bearing for slot cutter

Tongue & Groove Set


8/900.626

Make tongue and groove joints without the complicated process of taking apart and reassembling bits. The new CMT tongue and groove set gives you one bit to groove the slot and a separate bit to mill the tongue. Or use your imagination and put them to work individually on other projects. Makes tongue and groove cuts in wood up to 19mm thickness.



PROFILE	I mm	D mm	H mm	L mm	Pack Qty.	Order No. S=Ø8mm	Order No. S=Ø12mm	Order No. S=Ø12,7mm
A+B	19	47,6	12,8	71	5	900.126.11		
A+B	19	47,6	12,8	71	5		900.626.11	
A+B	19	47,6	12,8	71	5			800.626.11
A	19	47,6	12,8	71	10			800.626.11M

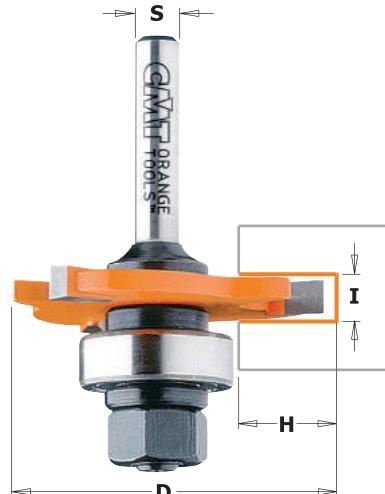
Spare parts

- 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

	Spare parts
924.083.00	791.005.00
924.131.00	791.005.00
824.131.00	791.005.00
824.131.00	791.005.00

Slot Cutters

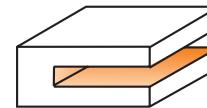
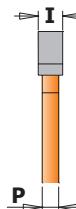


7/8/922A/B

Uses for the CMT three wing slot cutter are almost infinite. Cut slots and grooves for splines, biscuits, T-molding or tongue and groove joints.

Every cutter features anti-kickback design, micrograin carbide tips and CMT's trademark orange non-stick PTFE coating. CMT slot cutters are available as a blade only or with your choice of a 6, 8, 12, 6,35 or 12,7mm diameter arbor which includes a 22mm diameter bearing for a cutting depth of up to 12,7mm.

Note: For biscuit joints, use I=4mm slot cutter.

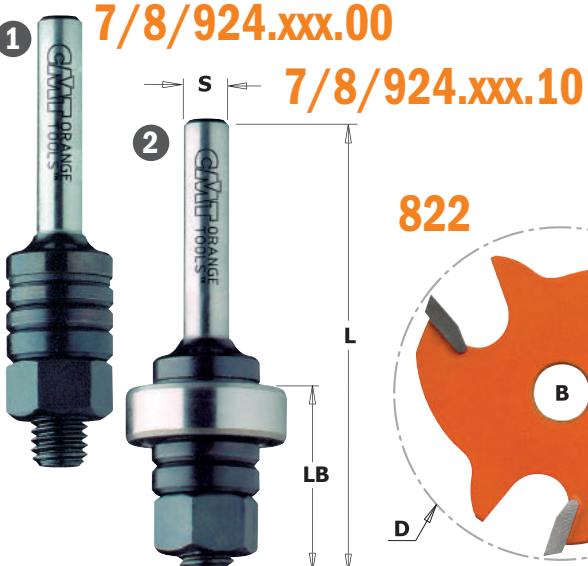


Drawing is 1:1 scale

I mm	P mm	D mm	H mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
1,5	1,07	47,6	12,8	10	722.315.11A		922.315.11A	922.315.11B	
1,6	1,07	47,6	12,8	10		822.316.11A			822.316.11B
2	1,27	47,6	12,8	10	722.320.11A	822.320.11A	922.320.11A	922.320.11B	822.320.11B
2,4	1,27	47,6	12,8	10		822.324.11A			822.324.11B
2,5	1,27	47,6	12,8	10	722.325.11A		922.325.11A	922.325.11B	
3	1,27	47,6	12,8	10	722.330.11A		922.330.11A	922.330.11B	
3,2	1,27	47,6	12,8	10		822.332.11A			822.332.11B
3,5	2,07	47,6	12,8	10	722.335.11A		922.335.11A	922.335.11B	
4	2,07	47,6	12,8	10	722.340.11A	822.340.11A	922.340.11A	922.340.11B	822.340.11B
4,8	2,86	47,6	12,8	10		822.348.11A			822.348.11B
5	2,86	47,6	12,8	10	722.350.11A		922.350.11A	922.350.11B	
6	4,45	47,6	12,8	10	722.360.11A	822.360.11A	922.360.11A	922.360.11B	822.360.11B
6,4	4,45	47,6	12,8	10		822.364.11A			822.364.11B

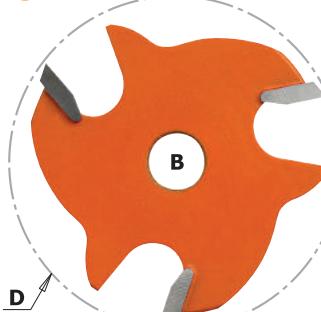
These three wing carbide tipped Slot Cutters feature anti-kickback three wing blade design and CMT's trademark orange P.T.F.E. Industrial Coating. All cutters feature an 8mm bore that fits CMT's arbors (items 7/8/924).

7/8/924.xxx.00



7/8/924.xxx.10

822



I mm	P mm	D mm	B mm	Pack Qty.	ORDER NO.
1,5	1,07	47,6	8	10	822.315.11
1,6	1,07	47,6	8	10	822.316.11
1,8	1,27	47,6	8	10	822.318.11
2	1,27	47,6	8	10	822.320.11
2,2	1,27	47,6	8	10	822.322.11
2,4	1,27	47,6	8	10	822.324.11
2,5	1,27	47,6	8	10	822.325.11
2,8	1,27	47,6	8	10	822.328.11
3	1,27	47,6	8	10	822.330.11
3,2	1,27	47,6	8	10	822.332.11
3,5	2,07	47,6	8	10	822.335.11
4	2,07	47,6	8	10	822.340.11
4,8	2,86	47,6	8	10	822.348.11
5	2,86	47,6	8	10	822.350.11
6	4,45	47,6	8	10	822.360.11
6,4	4,45	47,6	8	10	822.364.11

DESCRIPTION	LB mm	L mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
① Slot cutter arbor without bearing	26	61	10	724.060.00	824.064.00	924.080.00		
① Slot cutter arbor without bearing	26	67,5	10				924.120.00	824.127.00
② Slot cutter arbor with bearing	26	61	10	724.060.10	824.064.10	924.080.10		
② Slot cutter arbor with bearing	26	67,5	10				924.120.10	824.127.10
Slot cutter arbor without bearing, long series	40	86	10			924.083.00		
Slot cutter arbor with bearing, long series	40	86	10			924.083.10		

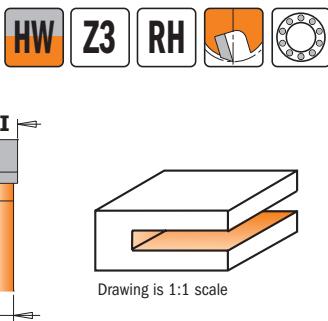
Spare parts 791.005.00 Ø8-22mm bearing
541.501.00 4mm spacer
541.500.00 3mm spacer

541.518.00 1mm spacer
990.020.00 M8 nut



923A - 823B

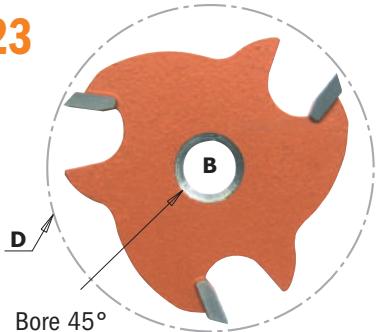
The uses of this bit are infinite: not only can you rout grooves and rabbets, but you can even T or dovetail joints on wood panels. Each bit features three carbide-tipped cutters, orange coloured PTFE coating and anti-kickback design. The 22mm bearing is included for a cutting depth of 12,8mm. The bit and the slot cutter are also available separately.



Drawing is 1:1 scale

I mm	P mm	D mm	H mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
3	1,27	47,6	12,8	58	10	923.330.11A	823.332.11B
3,2	1,27	47,6	12,8	57,5	10		
4	2,07	47,6	12,8	58,3	10	923.340.11A	823.340.11B
5	2,86	47,6	12,8	63	10	923.350.11A	
6,4	4,45	47,6	12,8	60,7	10		823.364.11B

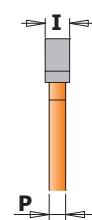
823



These three wing carbide tipped slot cutters feature anti-kickback three wing blade design and CMT's trademark orange PTFE Industrial Coating.

All cutters feature an 8mm bore that fits CMT's arbors (items 7/8/924).

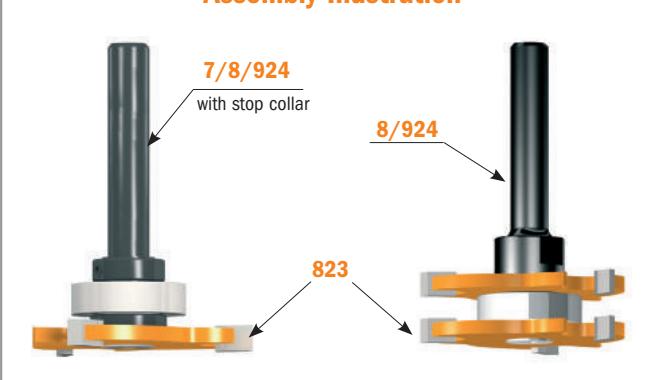
I mm	P mm	D mm	B mm	PACK QTY.	ORDER NO.
3	1,27	47,6	8	10	823.330.11
3,2	1,27	47,6	8	10	823.332.11
4	2,07	47,6	8	10	823.340.11
5	2,86	47,6	8	10	823.350.11
6,4	4,45	47,6	8	10	823.364.11



7/8/924



Assembly Illustration

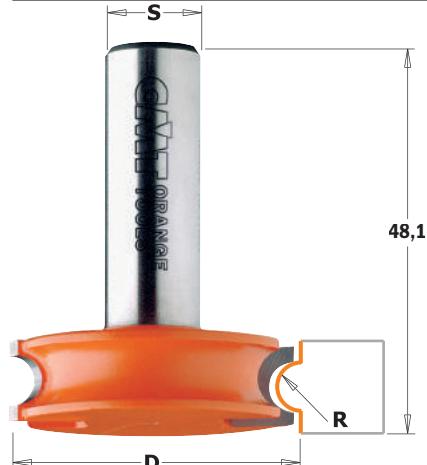


DESCRIPTION	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
1 Slot cutter arbor without bearing without stop collar	10	724.061.00	824.061.00	924.081.00	824.121.00
1 Slot cutter arbor with bearing and stop collar	10	724.061.10	824.061.10	924.081.10	824.121.10
2 Slot cutter arbor without bearing	10			924.082.00	824.122.00
2 Slot cutter arbor with bearing	10			924.082.10	824.122.10

Spare parts

791.012.00	Ø8-22mm bearing	541.515.00	0,1mm spacer
541.001.00	Stop collar for Ø6,35mm shanks	541.516.00	0,3mm spacer
541.002.00	Stop collar for Ø12,7mm shanks	541.517.00	0,5mm spacer
791.013.00	Ø12,7-22mm bearing	541.518.00	1mm spacer
541.003.00	Stop collar for Ø6mm shanks	990.055.00	M5x12mm TSPEI screw
541.004.00	Stop collar for Ø8mm shanks	991.067.00	3mm hex key

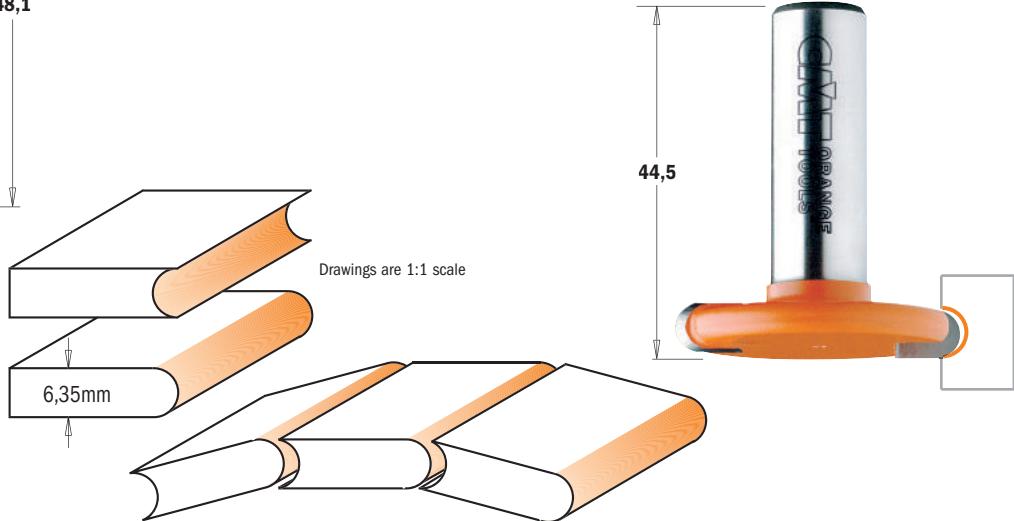
Flute & Bead Set



8/955.701

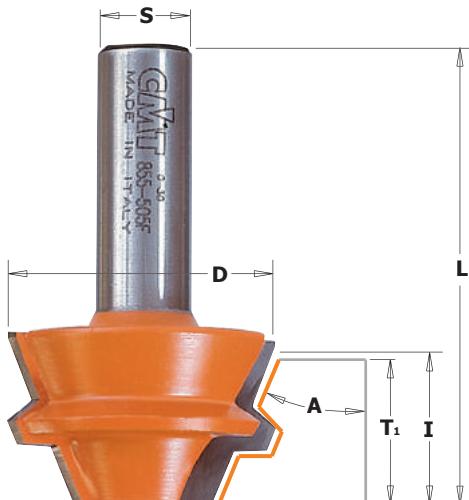
This perfectly mated CMT set is ideal for making canoe slats and hot tub enclosures. The cutting edges feature tungsten carbide which stay sharp even after cutting large amounts of stock. The anti-kickback design ensures that you work safely.

Use both the flute and the bead bits for 6,35mm (1/4") slats as shown below.



R mm	D mm				Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
3,2	38				5	955.701.11	855.701.11

Lock Miter Set

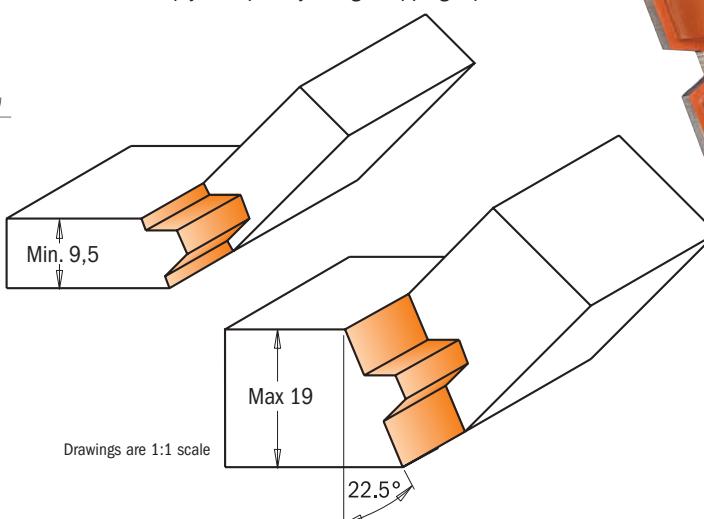
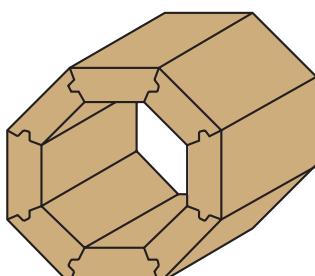


8/955

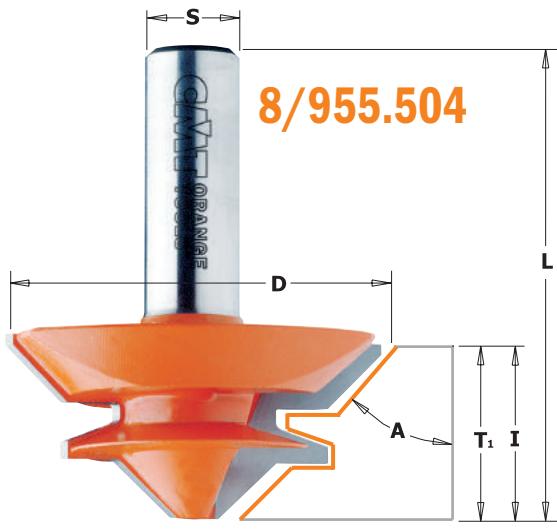
Now you don't have to fight with those awkward clamps on your 22.5° angle projects. Use this pair of bits to produce octagonal shaped boxes and popular corner cabinetry like cabinets for kitchens, entertainment centres, kitchen islands and corner hutches. This 22.5° Lock Miter set provides a strong tight joint even at 45° angles.

Biscuits and splines are time consuming and difficult to clamp; but CMT's matched cutters make set-up easy. Height adjustment is not an issue. All you have to do is adjust your fence so the top edge of the workpiece intersects the angle of the bit where it meets the fence.

After your joints are machined they can be glued and assembled and simply clamped by using strapping tape.



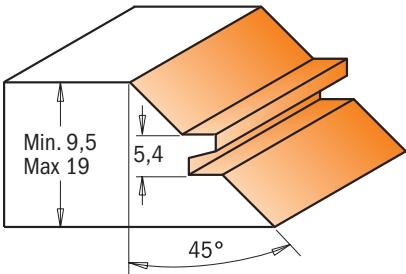
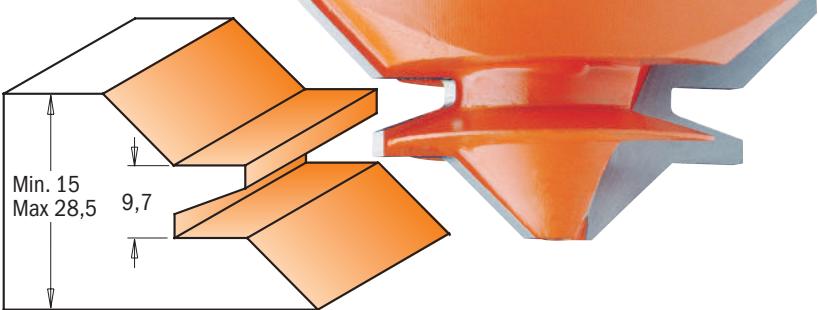
D mm	I mm	A	T ₁ mm	L mm	Pack Qty.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
37,3	22,2	22.5°	9,5 ÷ 19	60,3	5	955.005.11	855.505.11


8/955.504

CMT lock miter bits are ideal for milling miter joints in 28,5mm stock. A quick and easy way to accurately create boxes, stretcher bars, frames and any assortment of right angle or parallel joint projects.

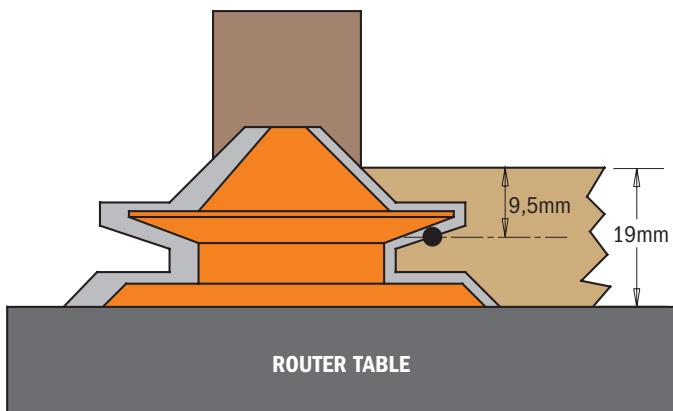
To produce perfectly fitting miter joints, lay one piece with the inside face-down on the work table and the wood centred to the bit. Mill as shown in step 1 of the illustration below. Mill the second piece with the inside face placed vertical to the bit and fence, as shown in step 2.

To mill sturdy parallel glue joints follow step 1 shown in the illustration with the inside face of the workpiece laid flat on the table and centred to the bit. To make the second part, lay the workpiece flat on the table and centred to the bit. Mill with the inside face-up.

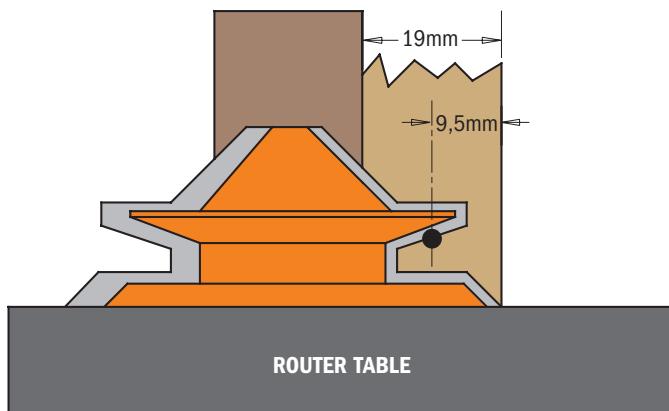

8/955.503


Drawings are 1:1 scale

For miter and parallel glue joints using 19mm board



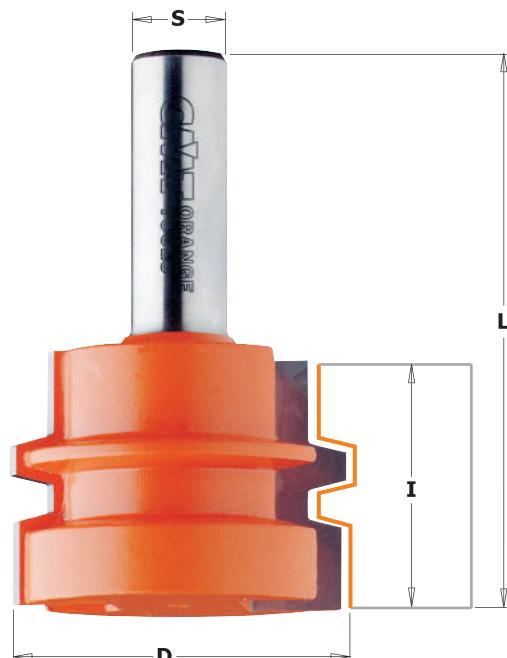
Nr. 1: Rout one piece with the inside face flat on the router table.
Be sure the cut is centred to the stock.



Nr. 2: Rout the second piece with the inside face vertical to the fence.

D mm	I mm	A	T ₁ mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
70	31,7	45°	15 ÷ 28,5	69,9	5	955.503.11	855.503.11
50,8	22,2	45°	9,5 ÷ 19	60,3	5	955.504.11	855.504.11

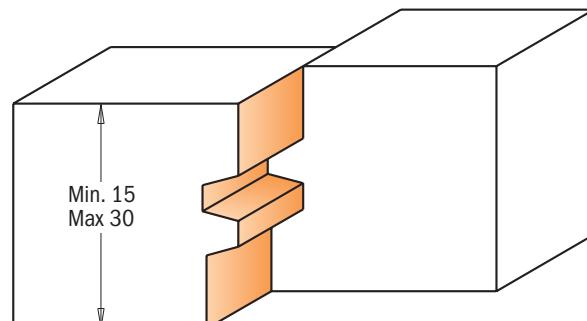
Reverse Glue Joint Bits



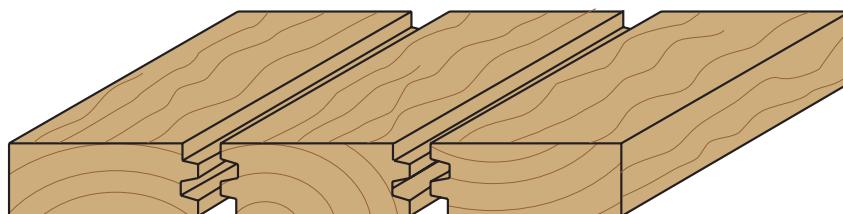
8/955.501

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. 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!

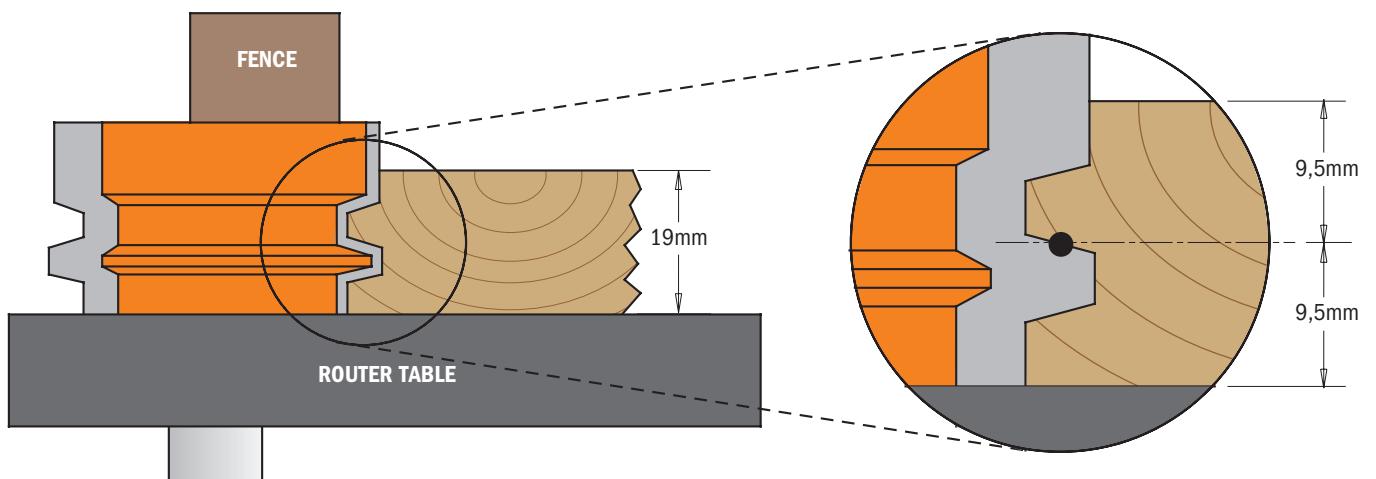
SHOP TIPS: When glueing, apply enough pressure to securely seal the joint. Insufficient pressure results in a weak joint and excessive pressure will distort the wood.



Drawings are 1:1 scale

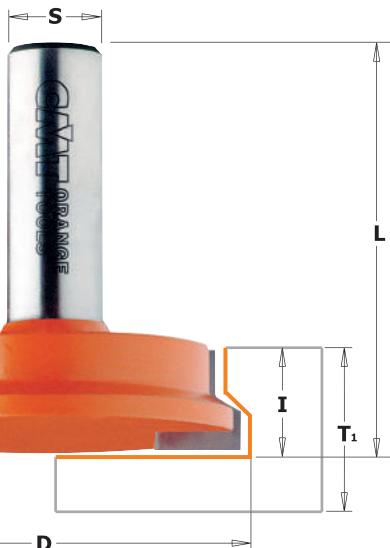


Example using a 19mm board



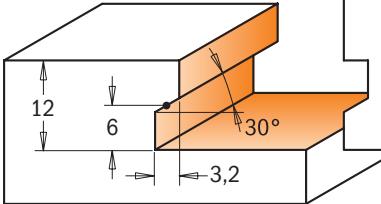
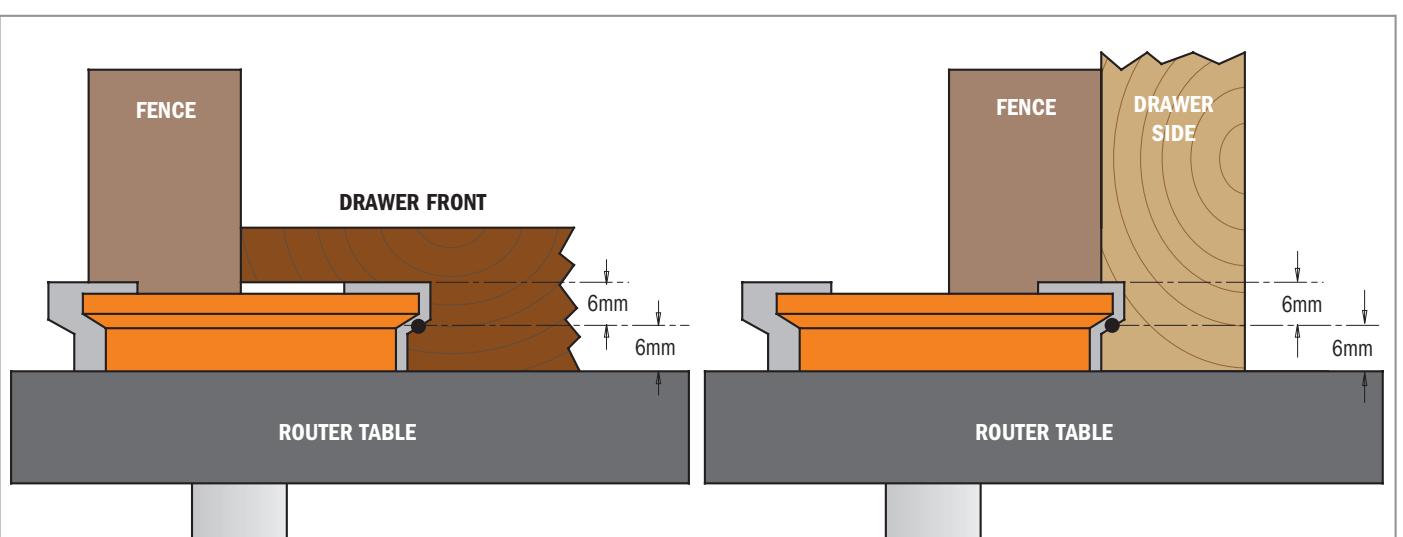
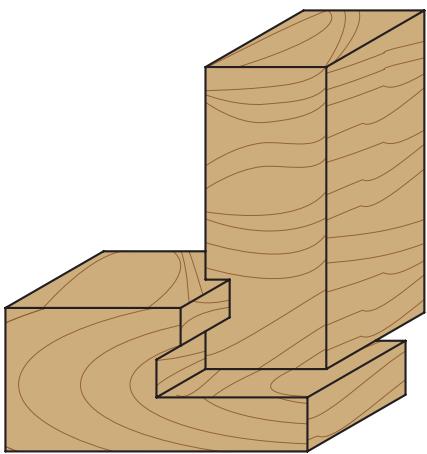
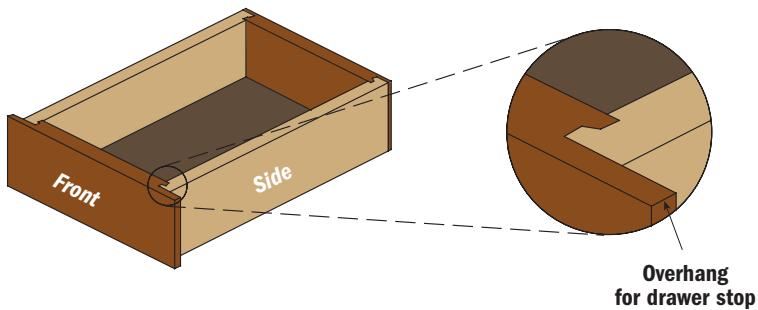
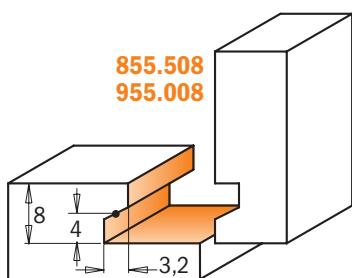
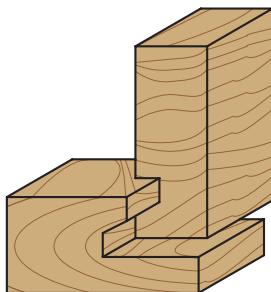
To accurately centre the wood to the bit: Adjust the bit according to the thickness of the wood you are cutting. Line up the cut edge of the wood to the centre point of the bit as illustrated in the enlarged drawing. The upper and lower vertical cutting edges of the bit are in proportion and at an equal 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.

D mm	I mm	T ₁ mm	L mm		Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
44,4	32	15 - 30	70,1		10	955.501.11	855.501.11

**7/8/955**

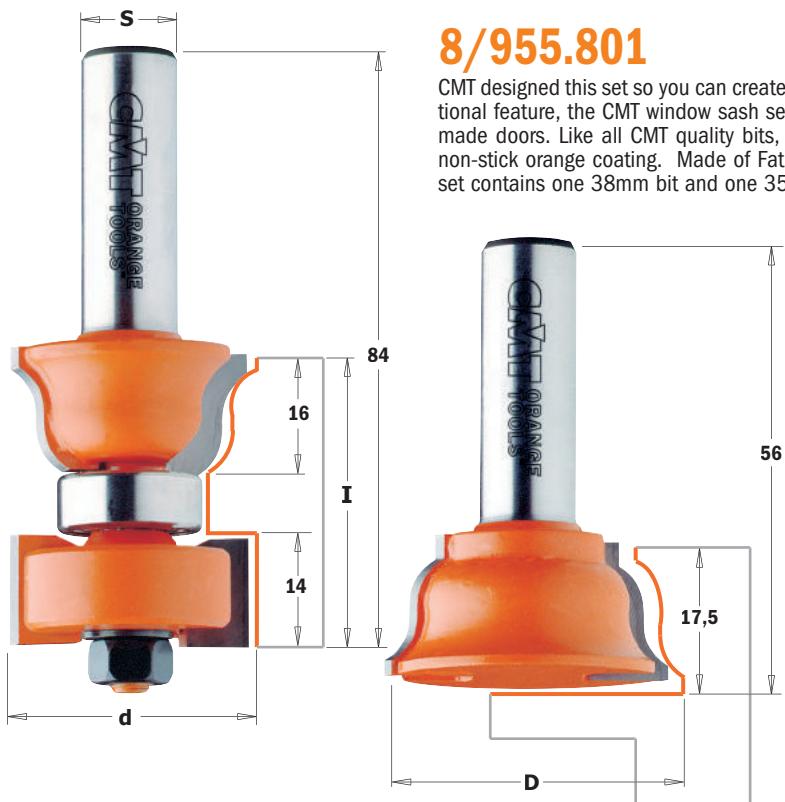
The key to success when constructing quality drawers is in the quality of the drawer lock bit you use. With CMT drawer lock bits you can make strong, perfectly fitted joints quickly and easily. As illustrated below, mill the drawer front with the inside face down on the work table. Mill the sides of the drawer with the inside face placed vertical to the bit and fence, and perpendicular to the table.

These bits are to be used on router tables only. Do not use on hand-held routers.

HW**Z2****RH****8/955.002-502****855.508
955.008**

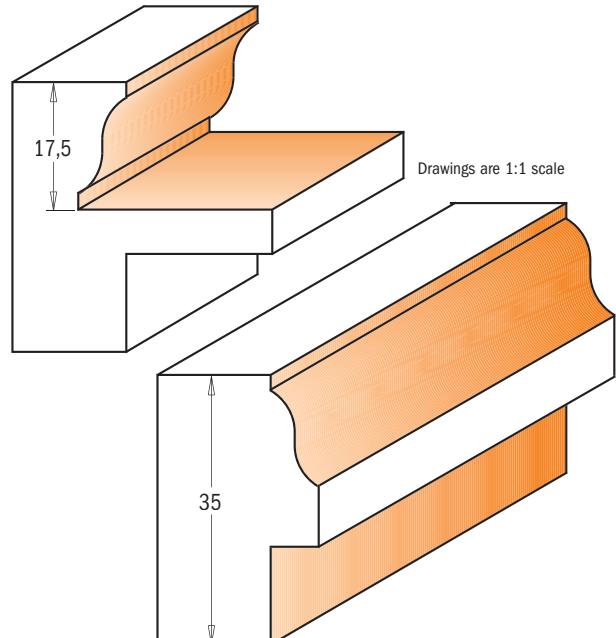
D mm	min. mm	T₁ max. mm	I mm	L mm	PACK QTY.	ORDER NO. S=06mm	ORDER NO. S=06,35mm	ORDER NO. S=08mm	ORDER NO. S=012mm	ORDER NO. S=012,7mm
25,4	9,5	15,87	12,7	54	10			955.008.11		855.508.11
31,7	15,87	25,4	12,7	44,5	10	755.002.11	855.002.11	955.002.11		
50,8	15,87	25,4	12,7	50,8	10				955.502.11	855.502.11

Window Sash Set



8/955.801

CMT designed this set so you can create window sashes that are as beautiful as they are functional. As an additional feature, the CMT window sash set will also mill perfectly matched 35mm rail and stile parts for custom made doors. Like all CMT quality bits, this set includes our anti-kickback design feature and our trademark non-stick orange coating. Made of Fatigue Proof® steel with carbide-faced cutting edges for longer life. Each set contains one 38mm bit and one 35mm bit designed for cutting 35mm stock.



d mm	I mm	L mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
35	35	84	38	17,5	56	5	955.801.11	855.801.11	791.012.00 822.004.11 541.518.00 990.020.00

Step-By-Step Window Sash Construction

CMT set makes it easy!

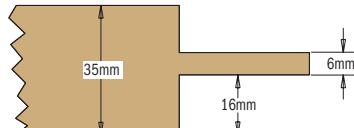
In our step-by-step example for window sash construction, we used the following:

- CMT Window Sash Set (item #855.801.11)
- stiles cut 35mm thick
- rails cut 35mm thick
- scrap stock

The CMT Window Sash Set was designed ideally for the construction of windows in 35mm stock, however variations as narrow as 28mm can be used. Stock thicker than 35mm 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 stick profiles.

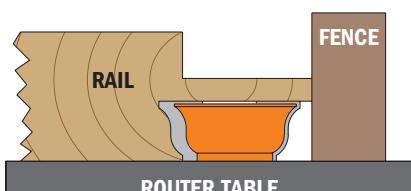
STEP 1 - Measurements and making the tenons

The ideal thickness of the stiles when using the CMT sash set is 35mm. 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 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 sash routers. 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 profile on rails, sash bar and muntins

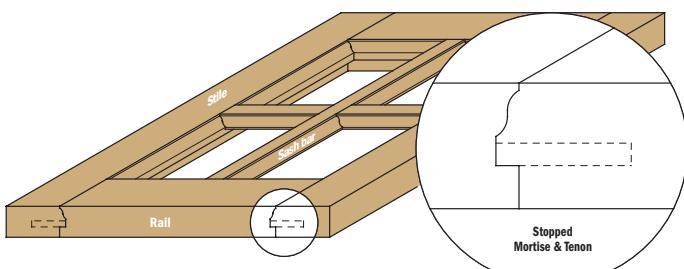
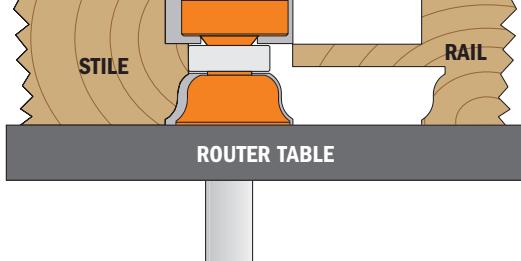
To make the cope profile, place the rail face front down on the router table with the tenon flush to the bit as shown in illustration 2. Adjust the fence so the bit mills 6,35mm deeper than the tenon. To mill the sash bar and the muntins (cross bars), position front face down on the router table and mill without changing the height of the bit.



STEP 3 - Making the stick profile on rails, stile, sash bar and muntins

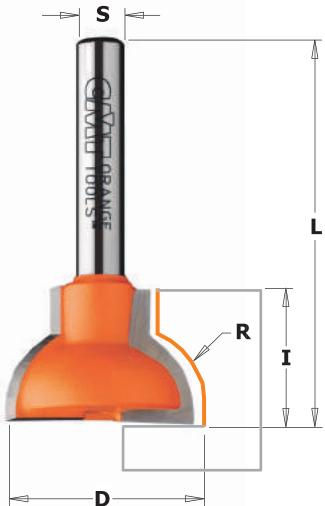
To mill the stick profile along the inside edges of all sash parts, place the already milled cope profile front face down on the router table and adjust the sash bit so that the lower edge of the top cutter will exactly touch the upper edge of the tenon as shown in need to 3 illustrations. With the rail still face down on the table, turn it so the inside edge of the rail is touching the bit and mill the stick profile. 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.



Ovolo Sash Bits

CMT ORANGE TOOLS®

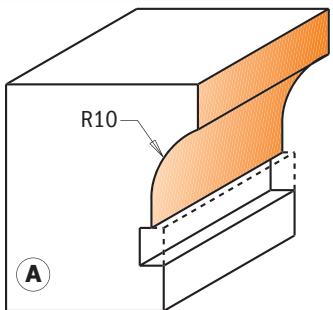
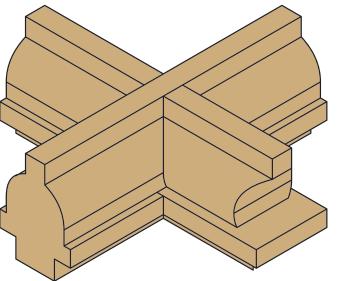


8/955.3

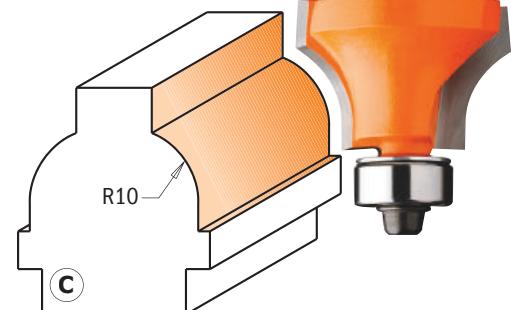
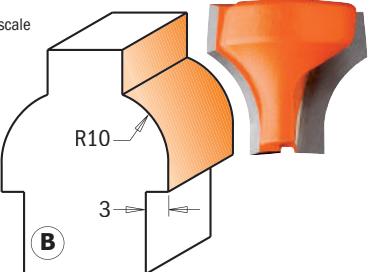
These bits allow you to make true divided light doors for fine furniture and cabinets as well as sash bar windows, and stile and rail constructions.

The glazing bar ovolo bits are bearing-guided to enable curved frames to be moulded. Cove bits can be used to produce easy-to-pull drawer handles.

HW Z2 RH



Drawings are 1:1 scale



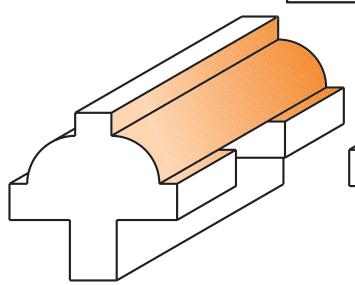
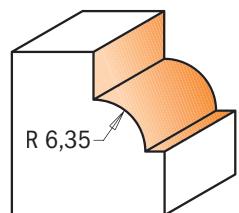
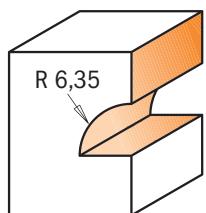
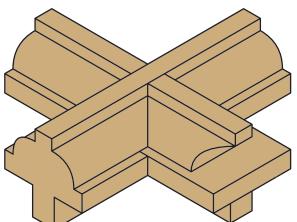
D mm	I mm	R mm	L mm	PROFILE	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	Spare parts
25	19	10	50,8	A	10	855.307.11M	955.307.11M	
22	19	10	50,8	B	10	855.307.11F	955.307.11F	
28	19	10	61,2	C	10	855.308.11F	955.308.11F	990.423.00 791.003.00 990.058.00 991.057.00

Ovolo Sash Set



955.302 - 855.802

HW Z2 RH

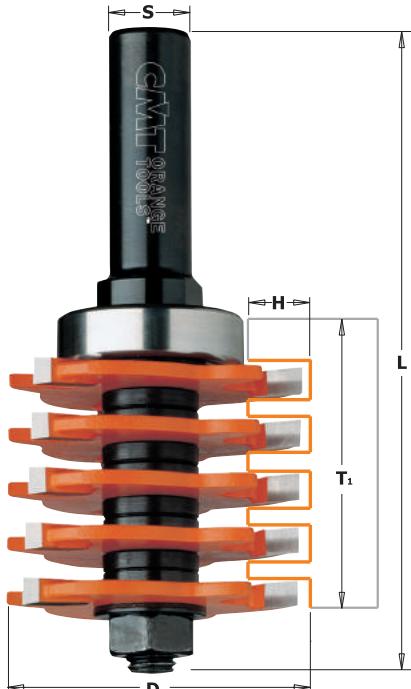


Drawings are 1:1 scale

d mm	D mm	I mm	R mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm	Spare parts
30	31,7	12	6,35	5	955.302.11	855.802.11	990.423.00 791.003.00 990.058.00 991.057.00 791.011.00 541.002.00

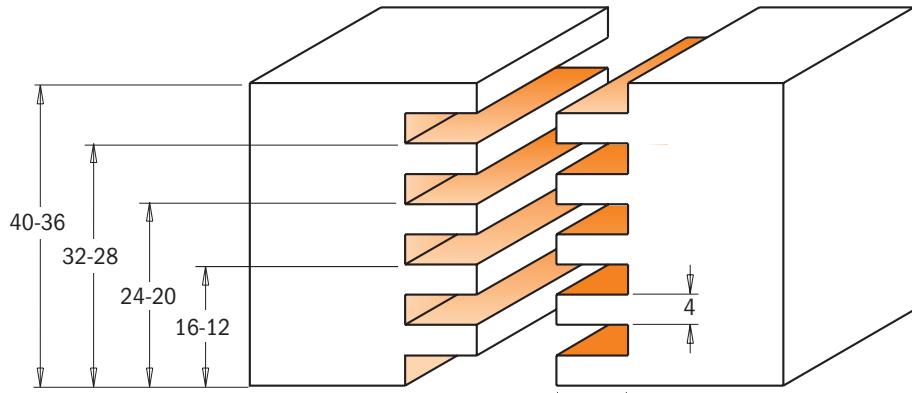
Spare parts 991.056.00 1,5mm hex key

Finger Joint Bit



8/900.616

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 9,5mm cutting depth. For further cutting depths you need to use a fence.



T ₁ mm	D mm	H mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
12 - 40	47,6	9,5	97	10	900.616.11	924.130.00	791.027.00
12 - 40	47,6	9,5	97	10		800.616.11	822.340.11

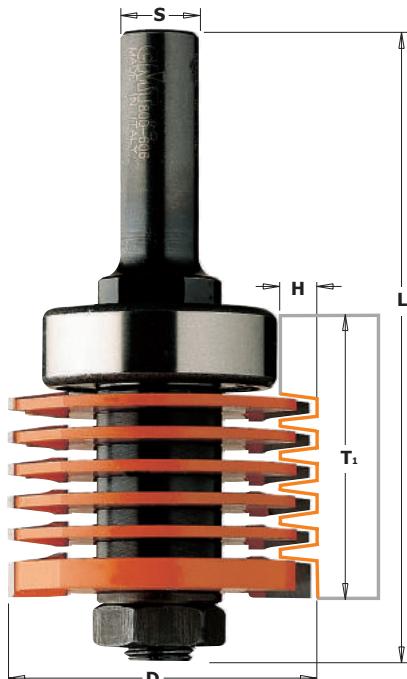
Spare parts

- 541.515.00 0,1mm spacer
- 541.519.00 5,8mm spacer
- 990.403.00 1,6mm washer
- 990.459.00 Kit with spacers

Optional

- 791.020.00 Ø38,1mm bearing (for depth 4,75mm)
- 791.029.00 Ø34,9mm bearing (for depth 6,35mm)
- 791.015.00 Ø31,7mm bearing (for depth 8mm)
- 791.011.00 Ø19mm bearing (for depth 14,3mm)

Professional Finger Joint Bit

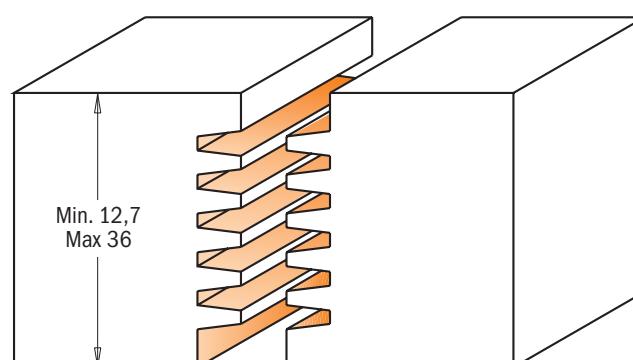


8/900.606

This versatile finger joint bit is the perfect tool for making incredibly strong side-to-side or end-to-end joints in wood and wood composites.

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.

CMT's professional finger joint bit features two-flute design, carbide teeth and six removable cutters. This means you can make joints in a wide range of stock thicknesses - from 12.7mm to 36mm. Ideal for moulding manufacturers and furniture makers.



T ₁ mm	D mm	H mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
12,7 - 36	47,6	5,5	97	10	900.606.11	924.129.00	791.028.00
12,7 - 36	47,6	5,5	97	10		800.606.11	822.005.11

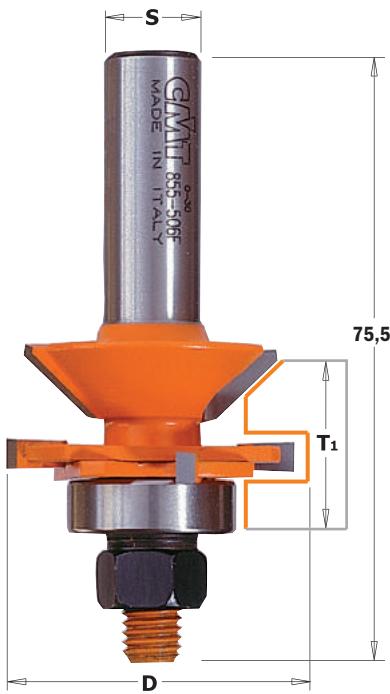
Spare parts

- 541.511.00 3mm spacer
- 541.512.00 2mm spacer

- 541.526.00 0,1mm spacer
- 990.458.00 Kit with spacer

V-Tongue & Groove Set

CMT ORANGE TOOLS®

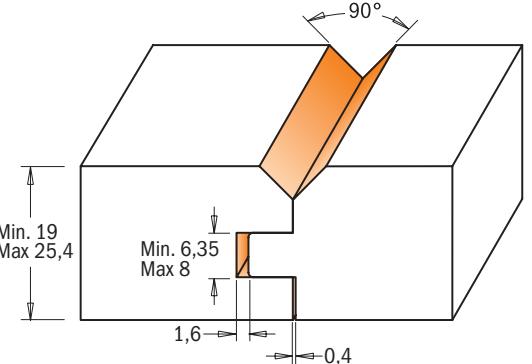


8/955.506



If the standard selection of moulding and mill work you find in today's lumber shops isn't satisfactory to your woodworking tastes, then consider 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.



Drawing is 1:1 scale

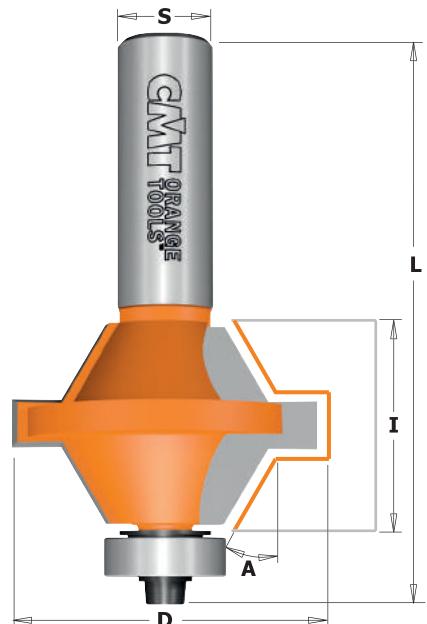
D mm	T1 mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
44,4	19÷25,4	10	955.506.11	855.506.11	822.013.11 822.014.11 791.011.00 791.005.00 990.020.00

Spare parts

541.515.00 0,1mm spacer
541.516.00 0,3mm spacer

541.517.00 0,5mm spacer
990.407.00 Shield

Edge Banding Bits Set

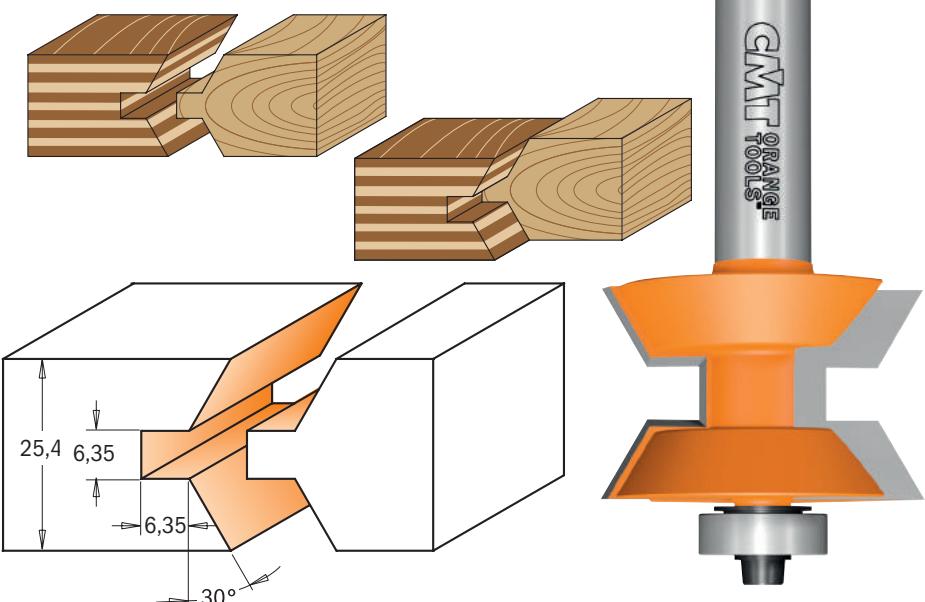


8/955.510



This is a great set to create cost-effective, yet attractive durable edges to your cabinet doors. For use with 1/2 " or 1" thick panels in plywood or MDF or create your own edge banding with your wood of preference.

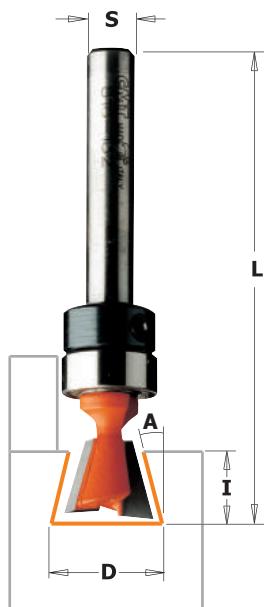
Easy to use: center each cutter on the stock and make the cut; glue the two pieces together; flush trim after assembly, if necessary. The set features a 60° angle tongue & groove with an ample surface area for glue application.



Drawing is 1:1 scale

D mm	I mm	A mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
40	25,4	30°	74,5	5	955.510.11	855.510.11	990.423.00 791.018.00 990.058.00 991.057.00

Dovetail Bits


7/818B

7/8/918

The beautifully crafted dovetail joint is a classic that appeals to both professionals and novices alike. Admired for its attractiveness in box and exposed joint projects, the dovetail is remarkably strong and functional.

CMT dovetail bits are available in 25 different sizes so you can stretch your creativity to the limit.

See the illustrations on the next page for dovetail joinery possibilities.

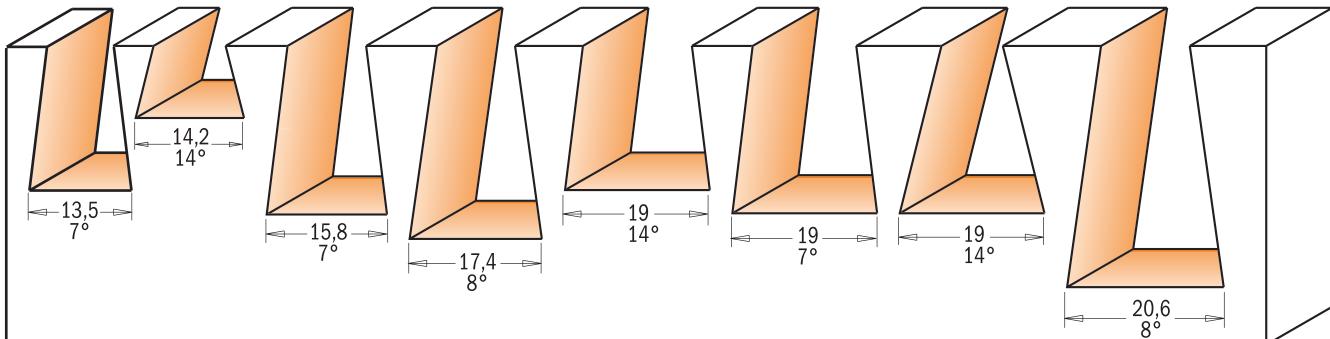
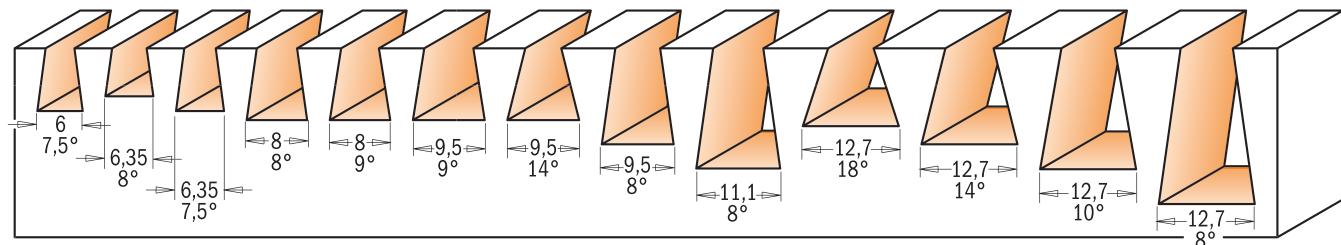
CMT dovetail bits are designed to fit all popular jigs including Leigh®, Keller®, JoinTECH® and Omnidjig® systems. You are sure to find the bit you are looking for in our vast selection of cutting sizes and angles.

Check the overall length of the bit before placing an order to be sure you get the size you need - CMT makes bits specifically to fit on jigs and routers that require a longer shank length.

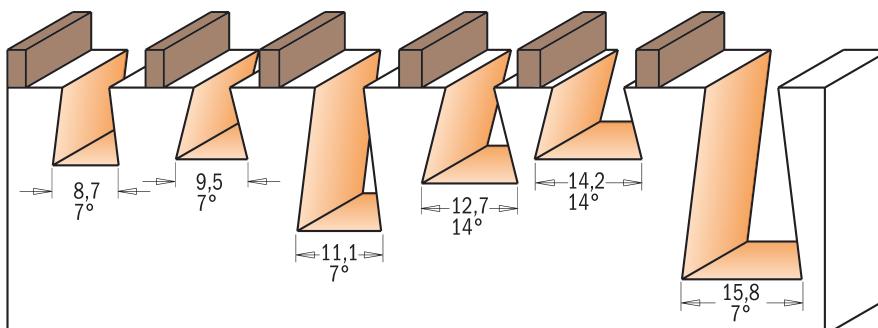
SHOP TIPS: two passes are recommended when routing dovetails with a template. Check that the dovetails have been cut through completely and smoothly before removing the workpiece.

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 a dovetail bit jams while working, adjust the position of the bit in the collet and make sure the cutting depth is correct. Do not lift the router out of the template.



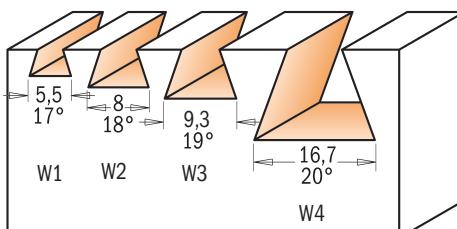
Drawings are 1:1 scale


Fit Manufacturer/Model ORDER NO.

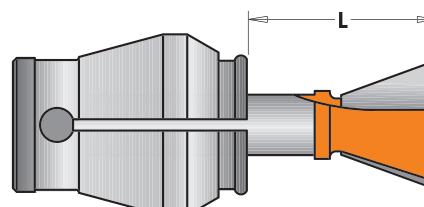
CMT-Enlock10 | 718.098.11B | 818.098.11B

CMT-Enlock15 | 718.127.11B | 818.128.11B

CMT300 | 718.127.11 | 818.128.11
918.127.11 | 818.628.11



Drawings are 1:1 scale


**Manufacturer/Model ORDER NO.
FIT HOFFMANN KEYS**

W1 L=16mm | 718.053.11 | 818.053.11

W2L=17,5mm | 718.079.11 | 818.079.11

W3 L=19mm | 718.093.11 | 818.093.11

W4 L=25mm | 918.167.11 |

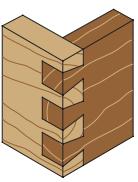
FIT HOFFMANN KEYS

7/8/918 - 7/818B



A few of the beautiful dovetail joints you can produce using CMT bits

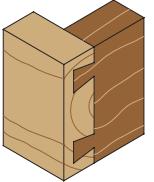
Through Dovetail



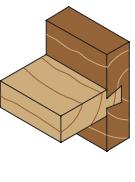
Half-Blind dovetail



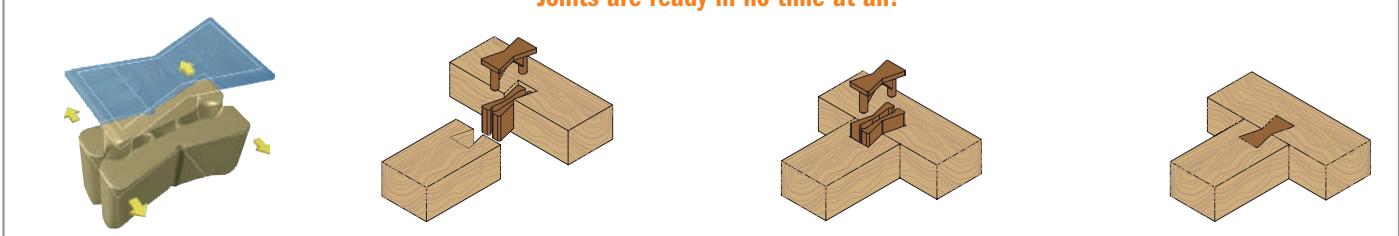
Variable-Spaced Dovetail



Sliding Dovetail



Joints are ready in no time at all!



D mm	I mm	L mm	A	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
•6	8,3	60	7,5°	10	718.060.11				
•6,35	6,35	50,8	8°	10		818.065.11			
•6,35	8,3	63,5	7,5°	10		818.064.11			818.564.11
•8	9,5	54	8°	10		818.081.11			
•8	9,5	52,5	9°	10		818.080.11			
•8	9,5	63,5	9°	10					818.580.11
9,5	9,5	52,5	9°	10	718.095.11	818.096.11	918.095.11		
9,5	9,5	63,5	9°	10					818.596.11
•9,5	9,5	60,3	14°	10		818.098.11			
•9,5	12,7	60,3	8°	10		818.097.11			
11,1	15,9	60,3	8°	10		818.111.11			
12,7	10,3	60,3	18°	10		818.132.11			
12,7	12,7	52,4	14°	10	718.127.11	818.128.11	918.127.11		
12,7	12,7	63,5	14°	10					818.628.11
12,7	12,7	62	14°	10		818.130.11			
12,7	16	60,3	10°	10		818.133.11			
12,7	20,6	69,8	8°	10		818.129.11	918.129.11		
13,5	19,05	61,5	7°	10					818.635.11
14,2	9,5	50,8	14°	10		818.142.11			
15,8	22	60,3	7°	10	718.158.11	818.158.11	918.158.11		
15,8	22	66,7	7°	10				918.658.11	818.658.11
17,4	25,4	77,6	8°	10					818.674.11
19	19	77,6	14°	10					818.691.11
19	22	60,3	7°	10	718.190.11	818.190.11	918.190.11		
19	22	66,7	7°	10				918.690.11	818.690.11
19	22	60,3	14°	10		818.191.11			
20,6	31,7	84,1	8°	10					818.706.11

With Top Bearing

8,73	10,3	58	7°	10	818.087.11B				791.009.00 541.001.00
•9,5	9,5	60,3	14°	10	718.098.11B	818.098.11B			791.010.00 541.001.00
11,1	19	66,7	7°	10		818.113.11B			791.009.00 541.001.00
12,7	12,7	52,4	14°	10	718.127.11B	818.128.11B			791.010.00 541.001.00
14,2	9,5	50,8	14°	10		818.142.11B			791.010.00 541.001.00

With Top Bearing (shank Ø9,5mm)

15,8	25,4	68,3	7°	10		818.159.11B			791.021.00 541.006.00
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Fit Hoffmann Keys

•5,5	4	43	17°	10	718.053.11	818.053.11			
•8	6	43	18°	10	718.079.11	818.079.11			
•9,3	7,3	43	19°	10	718.093.11	818.093.11			
16,7	12,5	49	20°	10			918.167.11		

Spare parts 990.005.00 M3x3mm TSEI screw
991.056.00 1,5mm hex key

7/8/918



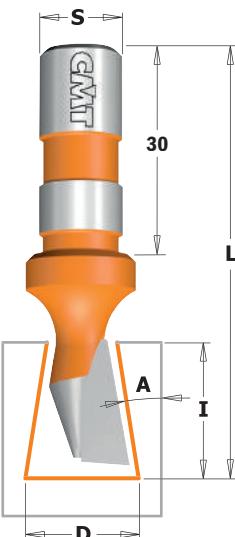
Spare parts



• HWM

9° Dovetail Cutters

CMT ORANGE TOOLS®

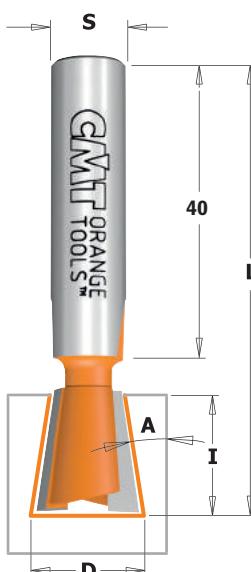
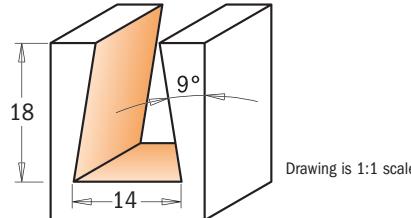


522

D mm	I mm	L mm	A	S mm	PACK QTY.	ORDER NO. Right-hand rotation
14	18	60	9°	12	10	522.140.11

TECHNICAL DETAILS:

- Super strength steel
- 1 HW precision ground cutting edge [Z1]

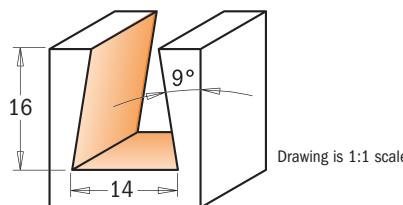


523

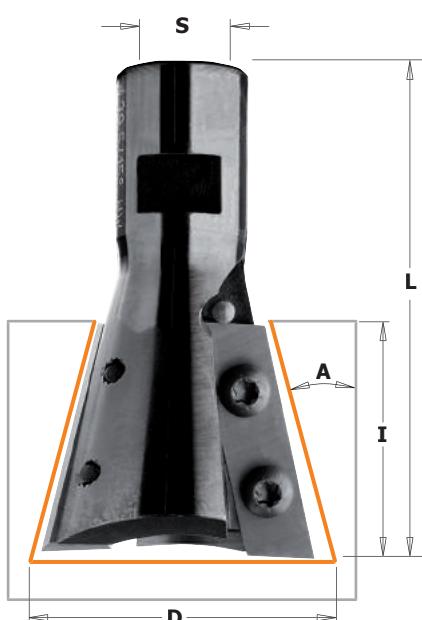
D mm	I mm	L mm	A	S mm	PACK QTY.	ORDER NO. Right-hand rotation
14	16	60	9°	10	10	523.140.11

TECHNICAL DETAILS:

- Super strength steel
- 2 HW precision ground cutting edges [Z2]



15° Dovetail Cutter with Insert Knives for Roof-Frames



664

D mm	I mm	L mm	A	S mm	PACK QTY.	ORDER NO. Right-hand rotation
39,5	31,5	65,5	15°	M12x1	1	664.395.11

TECHNICAL DETAILS:

- Super strength steel
- 2 HWM precision insert knives [Z2]

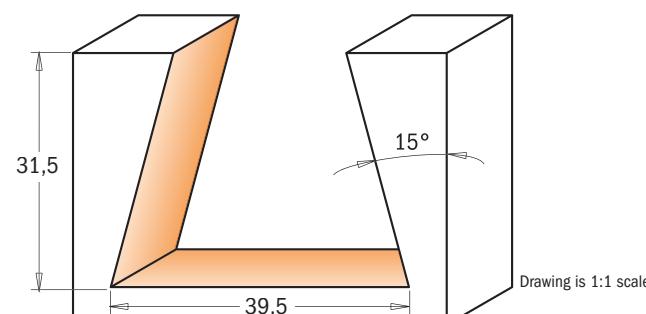
INSERT CARBIDE Z2 RH **2X**
LONGER LIFE

Spare parts

790.315.00	990.078.00	991.061.00
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APPLICATION:

This cutter allows you to assemble roof-frames by dovetailing.



60° Lettering Bit

CMT ORANGE TOOLS®



8/949B



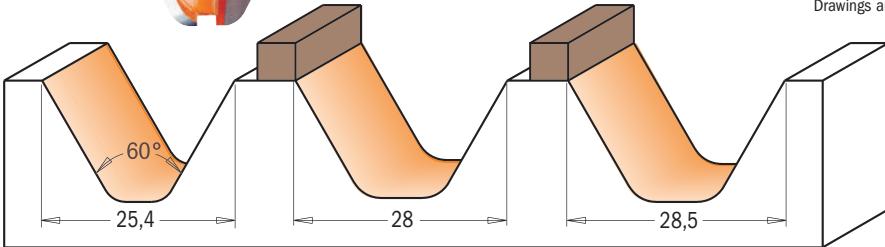
7/8/949



The ideal bit for routing signs. CMT designed this bit with a 60° angle curved profile, a 3,2mm (1/8") radius and a flattened bottom to make relief letter-making easy and accurate.

This exclusive design allows you to efficiently level off the area around the base of the letter and bevel the edges to eliminate splintering. Try our 60° angle lettering bit equipped with a top bearing guide to produce even more attractive decorative effects.

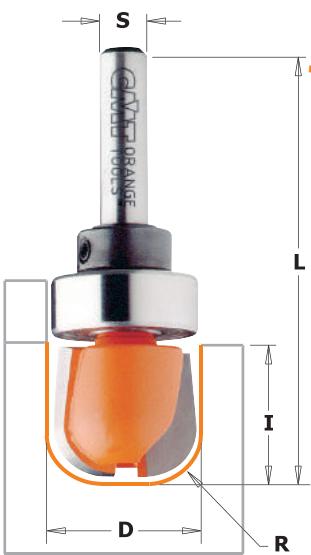
Drawings are 1:1 scale



D mm	I mm	A	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
25,4	19	60°	50,8	10	749.001.11	849.001.11			
28	19	60°	63,5	10			949.502.11		
28,5	19	60°	63,5	10				849.501.11	
<i>With Top Bearing</i>									
28	19	60°	63,5	10		949.502.11B			791.026.00 541.005.00 991.056.00
28,5	19	60°	63,5	10			849.501.11B		791.027.00 541.002.00 991.056.00

Spare parts 990.005.00 M3x3mm STEI screw

Bowl & Tray Bits



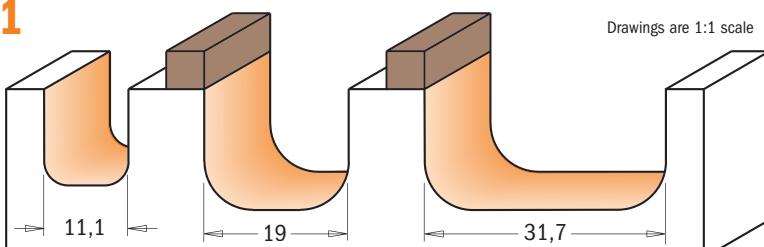
7/851B



7/8/951



This CMT bit is ideal for making bowls, trays, boxes, cutting boards or any other specialty or craft item. The round corner of the bit shapes the inner radius while the sides and bottom create the smooth flat surfaces. Makes pattern work quick and easy. For best results on jobs where accuracy is a priority, we recommend using our top bearing bowl and tray bits shown at the bottom of this page. Bowl and Tray bits with top bearings are great for pattern work. Use them to create raised sign lettering, trays and a variety of other items.



Drawings are 1:1 scale

D mm	I mm	R mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts	
11,1	12,7	3,2	45,5	10		851.001.11					
19	16	6,4	54	10	751.002.11	851.002.11	951.002.11				
19	16	6,4	60,4	10				951.501.11	851.501.11		
31,7	16	6,4	60,4	10				951.502.11	851.502.11		
<i>With Top Bearing</i>											
19	16	6,4	54	10	751.002.11B					791.007.00 541.003.00 991.056.00	
19	16	6,4	54	10		851.002.11B				791.004.00 541.001.00 991.056.00	
19	16	6,4	60,4	10				951.501.11B	851.501.11B	791.011.00 541.002.00 991.056.00	
31,7	16	6,4	60,4	10				951.502.11B	851.502.11B	791.015.00 541.002.00 991.056.00	

Spare parts 990.005.00 M3x3mm STEI screw

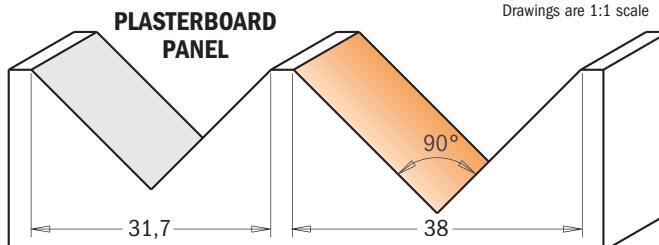
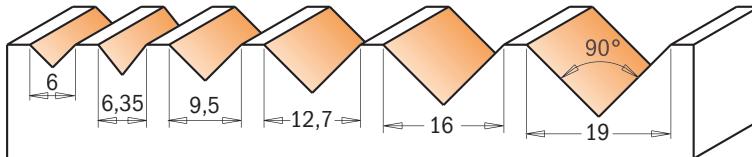
V-Grooving Bits (90°)



7/8/915

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.

TIPS: these bits perfectly chamfer at 45° angles (Two tools in one).



• HWM

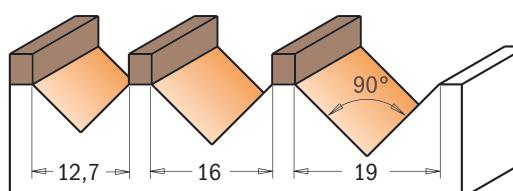
D mm	I mm	A	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
• 6	8	90°	38,1	10	715.060.11		915.060.11		
• 6,35	8	90°	38,1	10		815.064.11			
9,5	12,7	90°	44,5	10	715.095.11	815.095.11	915.095.11		
12,7	12,7	90°	44,5	10	715.127.11	815.127.11	915.127.11		
16	12,7	90°	52,8	10			915.160.11		
16	12,7	90°	63,5	10				915.660.11	815.660.11
19	16	90°	55,5	10	715.190.11				
19	16	90°	63,5	10				915.690.11	815.690.11
31,7	19	90°	63,5	10			915.317.11	915.817.11	815.817.11
38	28,5	90°	63,5	10			915.380.11		
38	28,5	90°	70	10					815.880.11



7/8/915B

In addition, CMT has versatile top bearing bits that allow for several template options of your choice (see series 715B-815B-915B). Like all CMT bits, they are made of super strength Fatigue Proof® steel with carbide-tipped cutting edges and are coated with our trademark orange PTFE non-stick coating. These bits are ideal for routing signs, or almost any project that is suitable for accurate template routing.

TIPS: these bits perfectly chamfer at 45° angles (Two tools in one)



Drawings are 1:1 scale

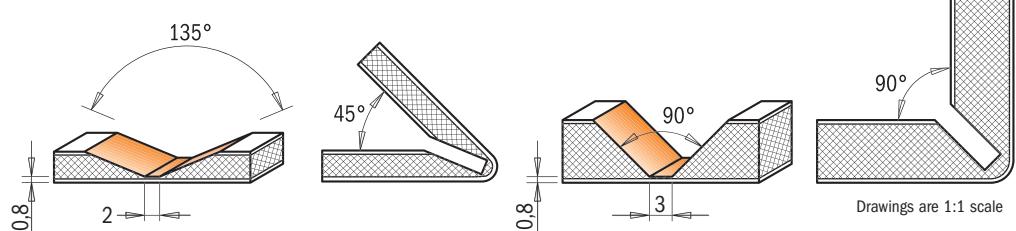
D mm	I mm	L mm	A	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm	Spare parts
12,7	12,7	44,5	90°	10		815.127.11B			791.010.00 541.001.00 991.056.00
16	12,7	52,8	90°	10			915.160.11B		791.025.00 541.004.00 991.056.00
19	16	55,5	90°	10	715.190.11B				791.007.00 541.003.00 991.056.00
19	16	63,5	90°	10				815.690.11B	791.011.00 541.002.00 991.056.00

Spare parts 990.005.00 M3x3mm STEI screw

**915**

Aluminium Composite Material (ACM) panels can be shaped using a very simple processing method. This technique referred to as the 'routing and folding' method, means ACM paneling can be manipulated in a variety of shapes and sizes.

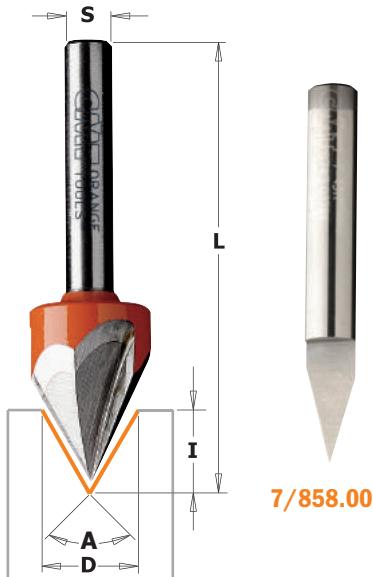
- a V-shaped groove is routed on the reverse side of the panel using a V-groove router bit thus leaving a thin layer of the core material at the base of the groove - i.e. on the inside of the outer cover sheet;
 - the untouched outer cover sheet can now be bent manually, giving an exact, clean folding line along the routed groove. The shape and depth of the groove will determine the outer radius of the folded edge.
- We recommend all routing to be done on either a CNC machine, a portable sheet milling machine or a hand router. The 'routing and folding' method can be used on any ACM product such as Alucobond®, Dibond® or any other product alike. 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.



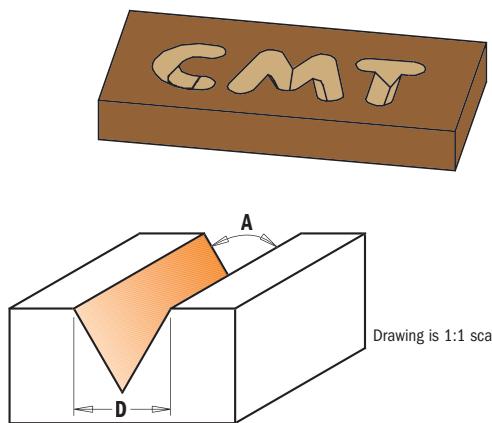
Drawings are 1:1 scale

D mm	I mm	A	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm
18	7,4	90°	60	10	715.001.11	815.001.11	915.001.11
18	3,3	135°	60	10	715.002.11	815.002.11	915.002.11

Laser Point Bit

**7/8/958**

This bit crafts delicate grooves and incisions with laser precision. Make one-of-a-kind effects with 30° bevel edges in one single run. Equipped with three super sharp cutting edges, this perfectly balanced bit allows you to work with incredible accuracy with no risk of burning. Raise the bit and produce a delicate fine point incision, or work the whole 12,7mm diameter to render bold highlighted lettering. Super strong steel shank and micrograin carbide cutting edges guarantee long lasting performance.



Drawing is 1:1 scale



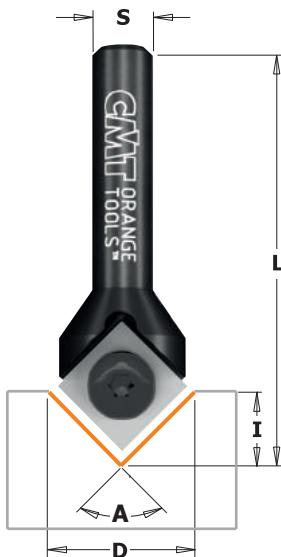
• HWM

D mm	I mm	A	Z	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
• 6	9	35°	1	50	10	758.002.11			
• 6,35	9,5	35°	1	50,8	10		858.002.11		
12,7	11	60°	3	57,2	10	758.001.11	858.001.11	958.001.11	
12,7	11	60°	3	60,3	10				858.501.11
12,7	10	60°	2	50,8	10		858.003.11	958.003.11	

V-Grooving & Signmaking Router Bits with indexable knives (90°)

CMT ORANGE TOOLS®

INSERT CARBIDE **Z1** **RH** **4X**
LONGER LIFE

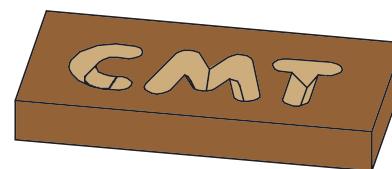
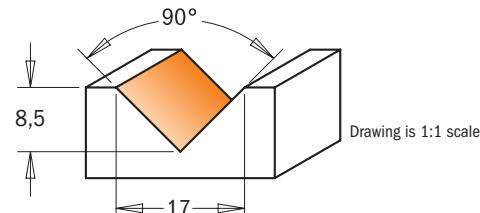
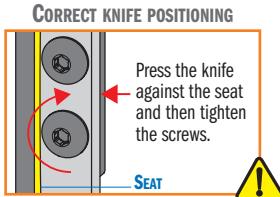


665

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.

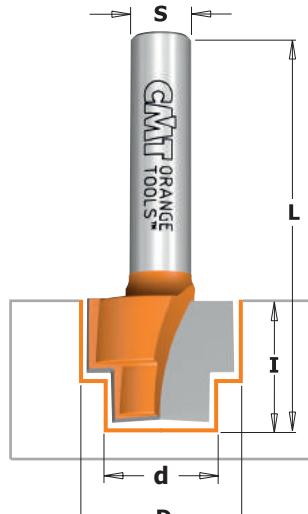
TECHNICAL DETAILS:

- Super strength steel.
- 1 HW precision insert knife [Z1].



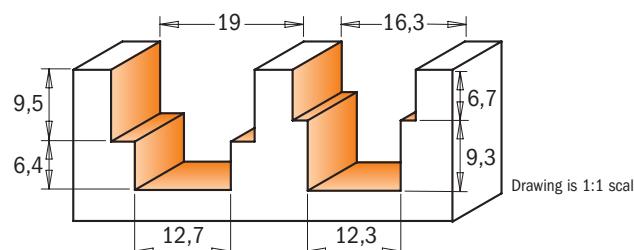
A	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	Spare parts
90°	17	8,5	53	10	665.171.11	665.170.11	790.120.00 990.075.00 991.061.00

Stepped Rebate Router Bit

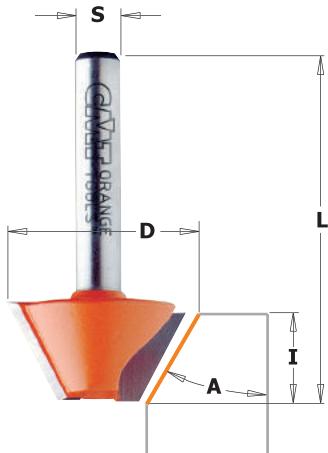


965

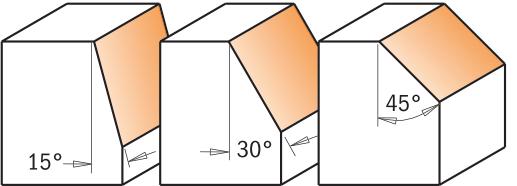
Router bit featuring 2 carbide-tipped cutting edges for producing double rebates on wood and wood composites. Designed for accepting library/bookcase shelving strips or for accommodating hardware into your window slots.



d mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm
12,3	16,3	16	80	10	965.122.11
12,7	19	15,9	50,8	10	965.121.11


703/4/5 - 903/4/5

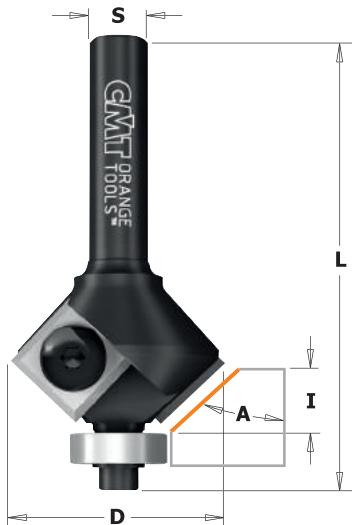
From a gently beveled edge to decorative chamfers in a variety of materials, CMT offers smooth results.



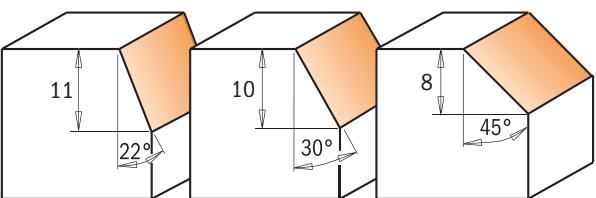
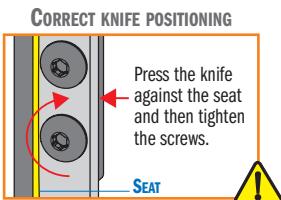
Drawings are 1:1 scale

A	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø8mm
15°	24	14	46	10	703.240.11	903.240.11
30°	26	12,7	44,5	10	704.240.11	904.240.11
45°	25	8	41	10	705.240.11	905.240.11

Chamfer Bits with Insert Knives


659

Bevel and Chamfer trim bits with two replaceable knives fixed by special Torx screws. The knives are sharpened on all 4 sides and provide three extra new edges. Guided bevel and chamfer trim bits type 659 are equipped with the ball bearing guides. Type 658 is unguided. For specialist applications requiring economy of replaceable tips. For precision work on laminates, MDF or for quick rounded edges in hard wood. For use on portable Routers or CNC machining centers.



Drawings are 1:1 scale

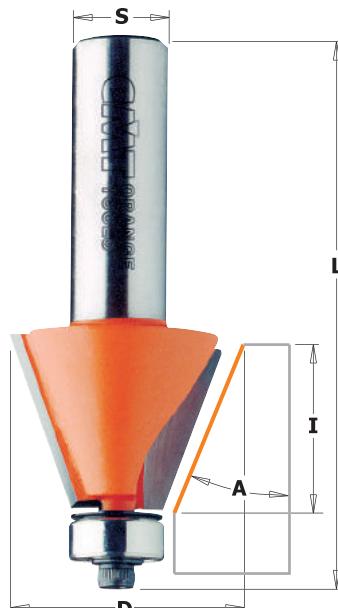
658


A	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm	Spare parts
45°	29	8	52	10	658.047.11		658.045.11		790.120.00 990.075.00
22°	25	11	65	10	659.024.11	659.023.11	659.022.11		790.120.00 990.075.00 791.006.00
30°	28	10	66	10	659.032.11	659.031.11	659.030.11		790.120.00 990.075.00 791.006.00
45°	29	8	60	10	659.047.11	659.046.11	659.045.11		790.120.00 990.075.00 791.022.00
45°	29	8	68	10				659.646.11	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

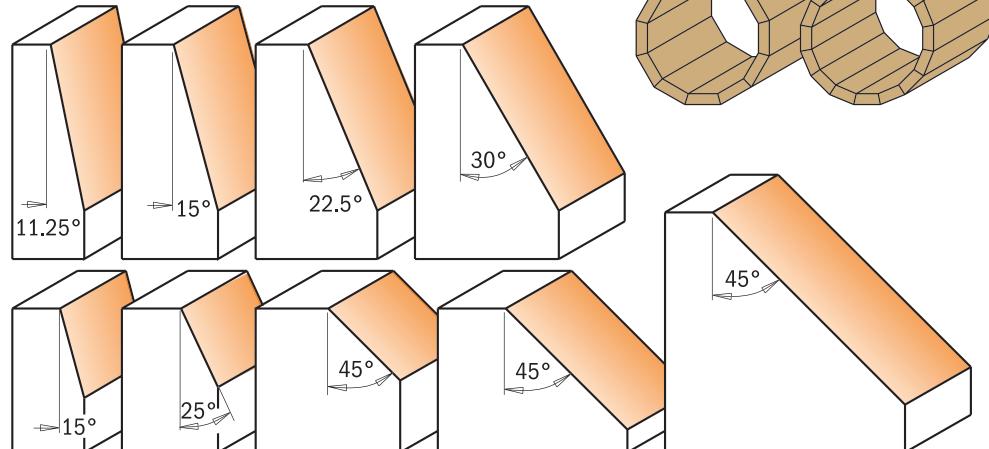
Chamfer Bits



7/8/936 - 8/957

CMT chamfer bits can cut clean, accurate bevels and chamfers and are great for edge work or for making perfectly aligned multi-sided containers, boxes and other decorative projects.

See illustration below for examples. Can be used for working larger scale projects such as beams and columns with excellent results.



Drawings are 1:1 scale

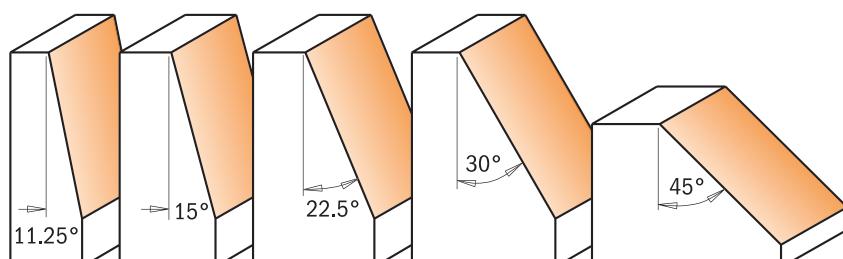
A	D mm	I mm	L mm	Pack Qty.	Order No. S=Ø6mm	Order No. S=Ø6,35mm	Order No. S=Ø8mm	Order No. S=Ø12mm	Order No. S=Ø12,7mm	Spare parts
15°	19	11,5	54,9	10	736.130.11	836.130.11	936.130.11			990.423.00 791.003.00 990.058.00 991.057.00
25°	22,2	10	54,9	10	736.190.11	836.190.11	936.190.11			990.423.00 791.003.00 990.058.00 991.057.00
45°	31,7	9,5	53	10	736.280.11	836.280.11	936.280.11			990.423.00 791.003.00 990.058.00 991.057.00
45°	45	18	60,2	10	736.420.11	836.420.11	936.420.11			990.423.00 791.003.00 990.058.00 991.057.00
45°	45	18	66,5	10			936.920.11	836.920.11		990.423.00 791.003.00 990.058.00 991.057.00
45°	65	26	76,7	5			936.950.11	836.950.11		990.423.00 791.003.00 990.058.00 991.057.00
11,25°	21,5	22	71,1	10			957.504.11	857.504.11		990.423.00 791.003.00 990.058.00 991.057.00
15°	24,5	22	71,1	10			957.503.11	857.503.11		990.423.00 791.003.00 990.058.00 991.057.00
22,5°	31	22	71,1	10			957.502.11	857.502.11		990.423.00 791.003.00 990.058.00 991.057.00
30°	38,5	22	71,1	10			957.501.11	857.501.11		990.423.00 791.003.00 990.058.00 991.057.00

Chamfer Set



836

Build beautiful planters, boxes and other multi-sided pieces with this handy set. Why cut imperfect angles on your table saw when it's so much easier and accurate to use the CMT Chamfer set? Our solution to accurate polygon construction includes 5 anti-kickback, carbide tipped bits in the most popular angles - 11-1/4°, 15°, 22-1/2°, 30° and 45°. No polygon project is too difficult. Available with 12,7mm shank.

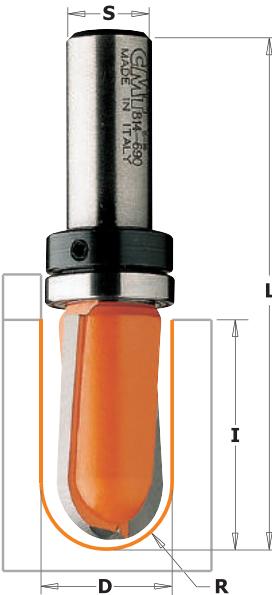


Drawings are 1:1 scale

Description	Pack Qty.	Order No. S=Ø12,7mm
Chamfer Set	5	836.501.11

Round Nose Bits

CMT ORANGE TOOLS®



7/8/914B

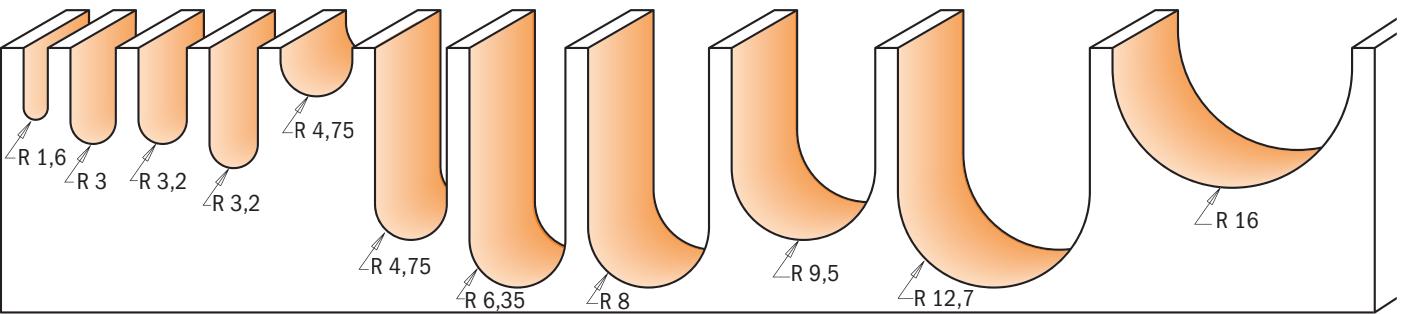


7/8/914

HWM HW Z2 RH

Personalize your doors, drawer fronts, panels or any surface you choose with your own signature motif. CMT round nose bits in solid carbide or with carbide tipped flutes let you create engraving in any wood or wood product. We offer a complete selection of diameters and cutting depths so you can achieve the effects you want. Mounted on your router table, you can work materials up to 31,7mm in depth. For even more elaborate decorations, we also offer top bearing bits - use your own template with one of these bits to produce truly unique doors and drawer fronts. A favourite item for professional sign makers, craft makers and hobbyists.

SHOP TIPS: more than one pass is recommended when making cove edges. To prevent splintering, begin with a shallow initial pass and deepen gradually.



Drawings are 1:1 scale

R mm	D mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
• 1,6	3,2	9,5	50,8	10	714.032.11	814.032.11	914.032.11		
• 1,6	3,2	12,7	50,8	10		199.001.11			
• 3	6	12,7	50,8	10	714.060.11		914.060.11		
• 3	6	27	70	10	199.060.11				
• 3,2	6,4	12,7	50,8	10		814.064.11			
• 3,2	6,4	25,4	63,5	10		199.008.11			
• 3,2	6,4	15,9	63,5	10					814.564.11
• 4	8	32	80	10			199.081.11		
4,75	9,5	6,4	50,8	10	714.095.11	814.095.11	914.095.11		
4,75	9,5	25,4	66,7	10					814.595.11
• 6	12	35	80	10				199.120.11	
6,35	12,7	9,5	50,8	10	714.127.11	814.127.11	914.127.11		
6,35	12,7	31,7	73	10				914.627.11	814.627.11
• 6,35	12,7	31,7	76,2	10					199.505.11
8	15,8	9,5	50,8	10	714.160.11	814.160.11	914.160.11		
8	15,8	31,7	73	10					814.660.11
9,5	19	11,3	50,8	10	714.190.11	814.190.11	914.190.11		
9,5	19	25	63,5	10			914.191.11		
9,5	19	31,7	73	10				914.690.11	814.690.11
11	22	25,4	63,5	10				914.221.11	
12,7	25,4	16	73	10				914.254.11	
12,7	25,4	31,7	73	10					914.754.11
16	31,7	18,5	58,8	10				914.817.11	814.817.11
19,05	38,1	31,7	69,8	10				914.880.11	814.880.11
25,4	50,8	31,7	69,8	10				914.990.11	814.990.11

With Top Bearing

6,35	12,7	9,5	50,8	10	814.127.11B				
8	15,8	9,5	50,8	10		814.160.11B			
8	15,8	9,5	50,8	10			914.160.11B		
9,5	19	11,3	50,8	10	714.190.11B				
9,5	19	11,3	50,8	10		814.190.11B			
9,5	19	31,7	73	10				814.690.11B	
									791.011.00
									541.002.00
									991.056.00
									791.009.00
									541.001.00
									991.056.00
									791.025.00
									541.004.00
									991.056.00
									791.007.00
									541.003.00
									991.056.00
									791.004.00
									541.001.00
									991.056.00
									791.011.00
									541.002.00
									991.056.00

Spare parts

791.010.00	541.001.00	991.056.00
791.009.00	541.001.00	991.056.00
791.025.00	541.004.00	991.056.00
791.007.00	541.003.00	991.056.00
791.004.00	541.001.00	991.056.00
791.011.00	541.002.00	991.056.00

Spare parts 990.005.00 M3x3mm TSEI screw

• HWM

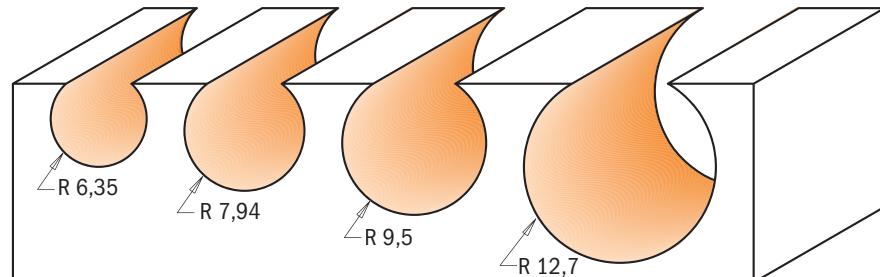
Ball End Bit

CMT ORANGE TOOLS®



8/968

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.



Drawings are 1:1 scale

R mm	D mm	I mm	L mm	Pack Qty.	Order No. S=∅8mm	Order No. S=∅12mm	Order No. S=∅12,7mm
6,35	12,7	11	57,15	10	968.127.11		868.627.11
7,94	15,88	14,2	60,3	10	968.158.11		868.658.11
9,52	19,05	17,4	63,5	10	968.190.11		868.690.11
12,7	25,4	23,5	70	10		968.754.11	868.754.11

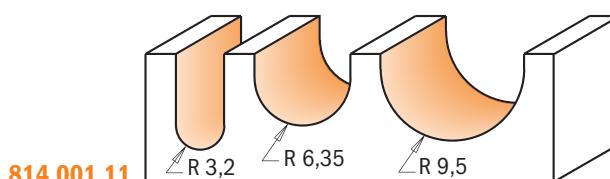
Round Nose Set

814

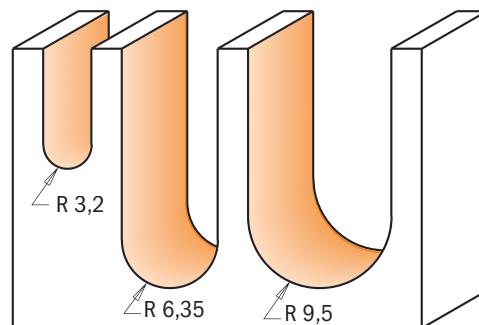
Each of these sets include 3 of the most widely used CMT Round Nose bits. These solid carbide or carbide tipped bits are perfect for sign making, engraving, or adding flutes and veins to doors or drawer fronts. Available in 6,35mm and 12,7mm shanks.



Drawings are 1:1 scale



814.001.11

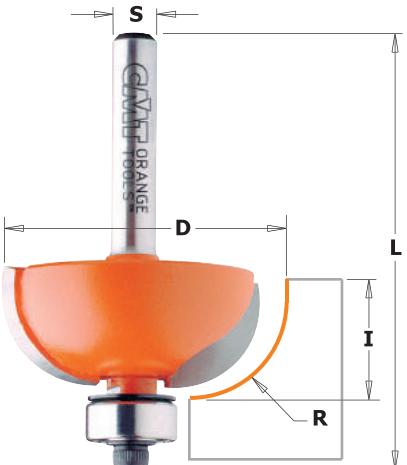


814.501.11

DESCRIPTION	Pack Qty.	Order No. S=∅6,35mm	Order No. S=∅12,7mm
Round Nose Set	10	814.001.11	814.501.11

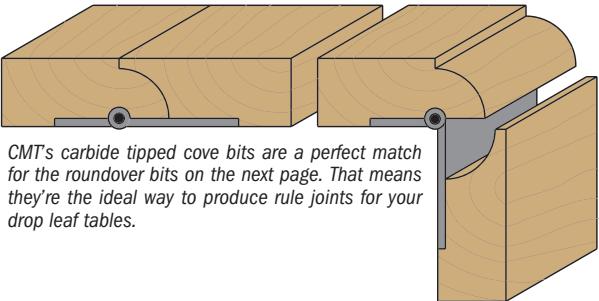
Cove Bits

CMT ORANGE TOOLS®



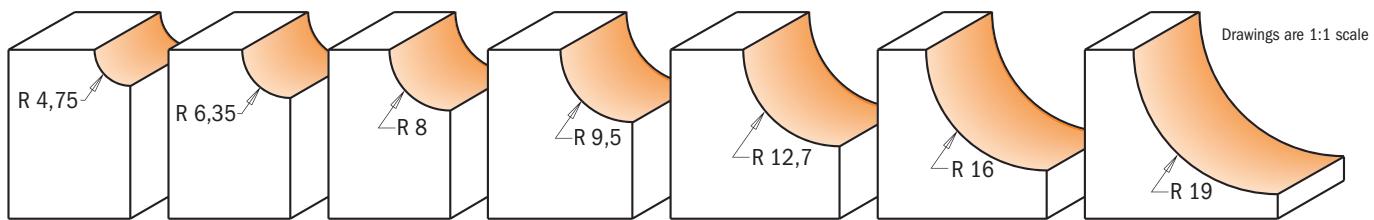
7/8/937

Make simple or elegant furniture, doors and drawer fronts by adding a final touch with CMT cove bits. Join them together with a CMT roundover bit and make perfectly fitting rule joints. Ideal for drop leaf counter and table tops. These bits feature anti-kickback design, carbide-tipped cutting edges, Fatigue Proof® steel body and PTFE non-stick coating.



CMT's carbide tipped cove bits are a perfect match for the roundover bits on the next page. That means they're the ideal way to produce rule joints for your drop leaf tables.

8/937.955.11



R mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
4,75	22,2	12,7	54,9	10	737.190.11	837.190.11	937.190.11			990.423.00 791.003.00 990.058.00 991.057.00
4,75	22,2	12,7	61,2	10				937.690.11	837.690.11	990.423.00 791.003.00 990.058.00 991.057.00
6,35	25,4	12,7	54,9	10	737.222.11	837.222.11	937.222.11			990.423.00 791.003.00 990.058.00 991.057.00
6,35	25,4	12,7	61,2	10				937.722.11	837.722.11	990.423.00 791.003.00 990.058.00 991.057.00
8	28,7	12,7	54,2	10	737.254.11	837.254.11	937.254.11			990.423.00 791.003.00 990.058.00 991.057.00
8	28,7	12,7	60,5	10				937.754.11	837.754.11	990.423.00 791.003.00 990.058.00 991.057.00
9,5	31,7	12,7	54,2	10	737.286.11	837.286.11	937.286.11			990.423.00 791.003.00 990.058.00 991.057.00
9,5	31,7	12,7	60,5	10				937.786.11	837.786.11	990.423.00 791.003.00 990.058.00 991.057.00
12,7	38,1	15,5	57,7	10	737.350.11	837.350.11	937.350.11			990.423.00 791.003.00 990.058.00 991.057.00
12,7	38,1	15,5	64	10				937.850.11	837.850.11	990.423.00 791.003.00 990.058.00 991.057.00
16	44,5	18,5	67	10				937.950.11	837.950.11	990.423.00 791.003.00 990.058.00 991.057.00
19	50,8	22,2	70,7	10				937.951.11	837.951.11	990.423.00 791.003.00 990.058.00 991.057.00
14,3-35	50,8	12,7	61,2	10				937.955.11	837.955.11	990.423.00 791.003.00 990.058.00 991.057.00

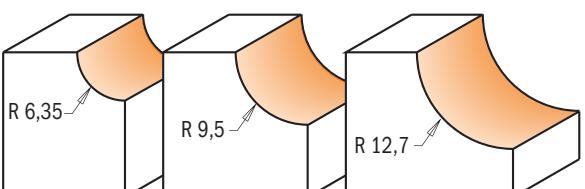
Cove Bit Set



837

See simple furniture, doors and drawer fronts transform into elegant pieces by giving them a final touch with a CMT Cove Bit. Pair them up with CMT Roundover Bits and make beautiful rule joints to create drop leaf counter and table tops.

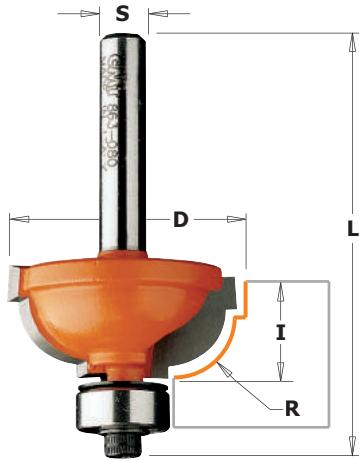
Anti-kickback design and thick carbide tips for long lasting performance.
Available with a 12,7mm or 6,35mm shank. Cove radii are 6,35mm, 9,5mm and 12,7mm.



Drawings are 1:1 scale

DESCRIPTION	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø12,7mm
Cove Bit Set	10	837.001.11	837.501.11

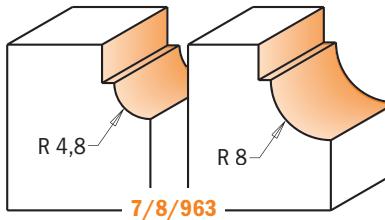
Cavetto Edge Mould Bits



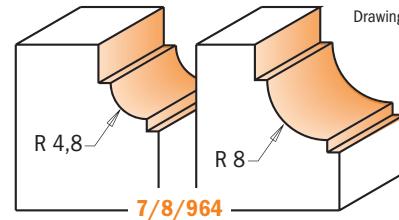
7/8/963 - 7/8/964

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. This bit adds a special touch to furniture pieces by making traditional cove profiles with top and bottom fillet grooves in any kind of wood and wood composites.

IMPORTANT: always assemble the black bearing heat shield with the raised side up when changing the bearing. Improper assembly will cause the screw to come loose and the bearing to fall off when routing.



7/8/963



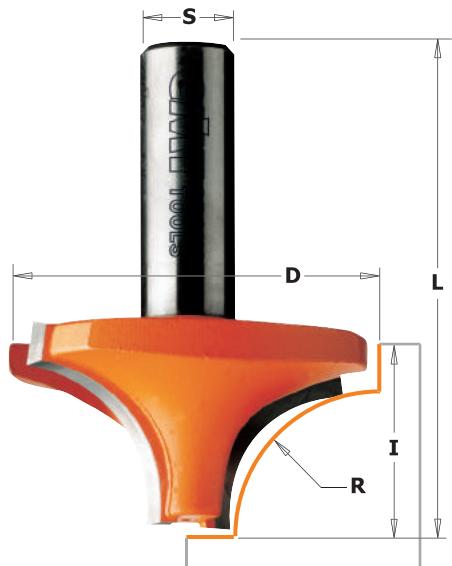
7/8/964

Drawings are 1:1 scale

Spare parts

R mm	D mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm				
4,8	25,4	11,5	54,6	10	763.048.11	863.048.11	963.048.11			990.423.00	791.003.00	990.058.00	991.057.00
4,8	25,4	11,5	60,9	10				963.548.11	863.548.11	990.423.00	791.003.00	990.058.00	991.057.00
8	31,7	14,3	56,9	10	763.080.11	863.080.11	963.080.11			990.423.00	791.003.00	990.058.00	991.057.00
8	31,7	14,3	63	10				963.580.11	863.580.11	990.423.00	791.003.00	990.058.00	991.057.00
4,8	25,4	11,5	52,8	10	764.048.11	864.048.11	964.048.11			990.422.00	791.002.00	990.058.00	991.057.00
4,8	25,4	11,5	59,1	10				964.548.11	864.548.11	990.422.00	791.002.00	990.058.00	991.057.00
8	31,7	14,3	55,1	10	764.080.11	864.080.11	964.080.11			990.422.00	791.002.00	990.058.00	991.057.00
8	31,7	14,3	61	10				964.580.11	864.580.11	990.422.00	791.002.00	990.058.00	991.057.00

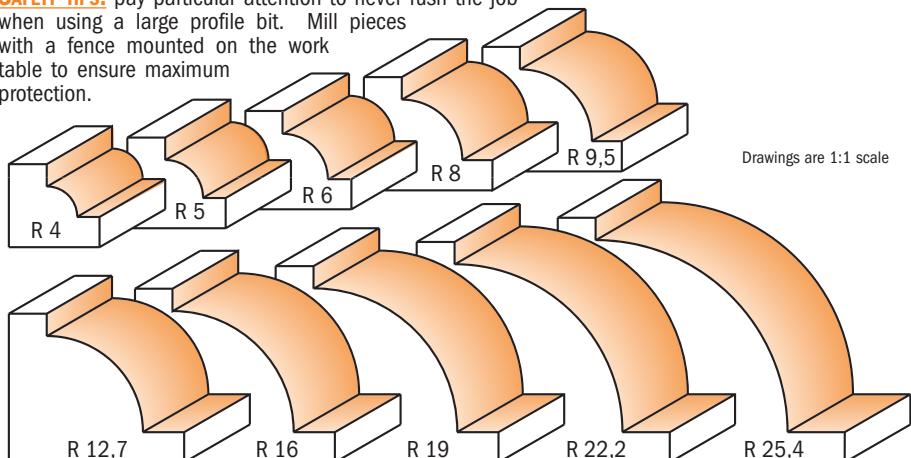
Ovolo Bits



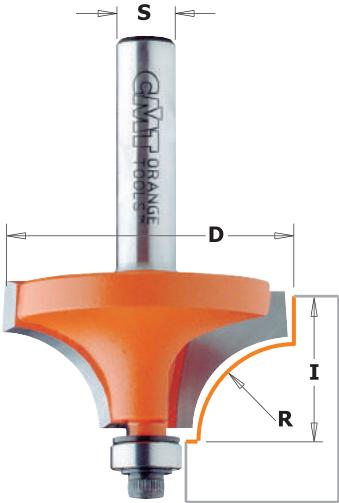
7/8/927

CMT put the work capacity of several different bits all into one. The perfect bit for furniture makers, the CMT ovolo allows you to make beautiful beadwork, edgework and veins. Use these bits on automated router systems or with a fence to produce a wide variety of single and double bead profiles and roundovers like those illustrated below by simply adjusting the height or depth of the cut.

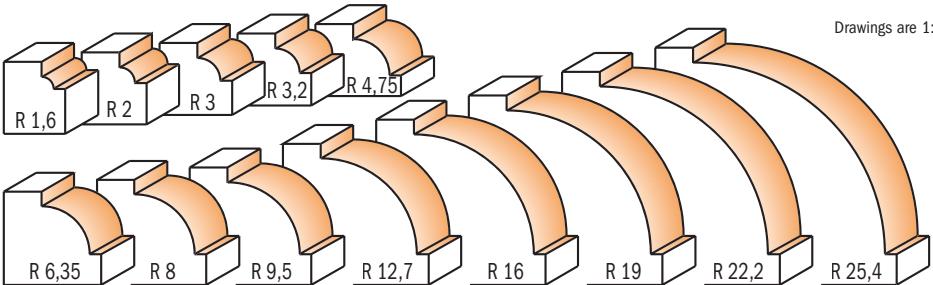
SAFETY TIPS: pay particular attention to never rush the job when using a large profile bit. Mill pieces with a fence mounted on the work table to ensure maximum protection.



R mm	D mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
4	19	12	43,8	10	727.040.11		927.040.11		
5	21	12	43,8	10	727.050.11	827.050.11	927.050.11		
6	23	12	43,8	10	727.060.11	827.060.11	927.060.11		
6	23	12	50,1	10					827.560.11
8	28,6	12,7	44,5	10	727.080.11		927.080.11		
9,5	31,7	15,8	47,6	10	727.095.11	827.095.11	927.095.11		
9,5	31,7	15,8	54	10				927.595.11	827.595.11
12,7	38,1	19	50,8	10		827.127.11			
12,7	38,1	19	57,1	10				927.627.11	827.627.11
16	44,5	22,2	60,3	10				927.660.11	827.660.11
19	50,8	25,4	63,5	10				927.690.11	827.690.11
22,2	57,1	28,5	66,6	5				927.722.11	827.722.11
25,4	63,5	33,3	71,4	5				927.754.11	827.754.11

**7/8/939**

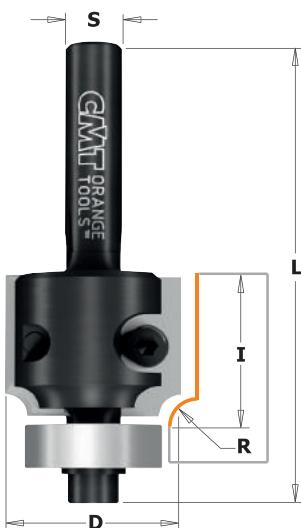
Beading bits are similar to the roundover profile, but a smaller bearing produces a delicate inset at the base of the cut, giving you an extra decorative option. For a beading profile (code 7/8/939) simply change the bearing (791.002.00) on your roundover bits (code 7/8/938).



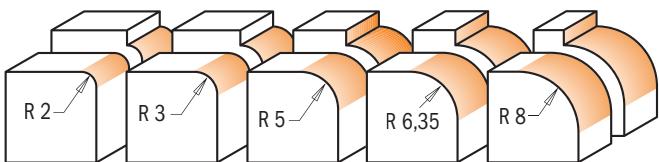
Drawings are 1:1 scale

*Use only on router table

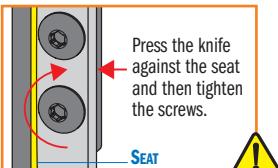
R mm	D mm	I mm	Pack Qty.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts	
1,6	15,9	12,7	10	739.160.11	839.160.11	939.160.11			990.422.00 791.002.00 990.058.00 991.057.00	
2	16,7	12,7	10			939.167.11			990.422.00 791.002.00 990.058.00 991.057.00	
3	18,7	12,7	10			939.187.11			990.422.00 791.002.00 990.058.00 991.057.00	
3,2	19,1	12,7	10	739.190.11	839.190.11	939.190.11			990.422.00 791.002.00 990.058.00 991.057.00	
4,75	22,2	12,7	10	739.222.11	839.222.11	939.222.11			990.422.00 791.002.00 990.058.00 991.057.00	
6,35	25,4	12,7	10	739.254.11	839.254.11	939.254.11	939.754.11	839.754.11	990.422.00 791.002.00 990.058.00 991.057.00	
8	28,6	12,7	10	739.285.11	839.285.11	939.285.11			990.422.00 791.002.00 990.058.00 991.057.00	
9,5	31,7	16	10	739.317.11	839.317.11	939.317.11	939.817.11	839.817.11	990.422.00 791.002.00 990.058.00 991.057.00	
12,7	38,1	19	10	739.380.11	839.380.11	939.380.11	939.880.11	839.880.11	990.422.00 791.002.00 990.058.00 991.057.00	
16	44,5	22	10		839.445.11	939.445.11	939.945.11	839.945.11	990.422.00 791.002.00 990.058.00 991.057.00	
19	50,8	25,4	10				939.990.11	839.990.11	990.422.00 791.002.00 990.058.00 991.057.00	
22,2	57,1	28,5	5				939.991.11	839.991.11	990.422.00 791.002.00 990.058.00 991.057.00	
25,4	63,5	33,3	5					939.992.11*	839.992.11*	990.422.00 791.002.00 990.058.00 991.057.00

**Roundover Bits with Insert Knives****661.11**

Roundover bits with two replaceable knives fixed by special Torx screws. The blades are profiled on 2 sides and increase the efficiency of your work with laminates. Roundover bits are equipped with ball bearing guides. For precision work on laminates. Radius R2 or R3 is for rounded 2mm or 3mm ABS edges. Radius R5 is for quick rounded edges in hard wood or MDF. For use on portable Routers.



Drawings are 1:1 scale

CORRECT KNIFE POSITIONING**4X
LONGER LIFE****661.41****Optional**

R=1mm	790.010.04
R=1,5mm	790.015.04
R=2mm	790.020.04
R=3mm	790.030.04

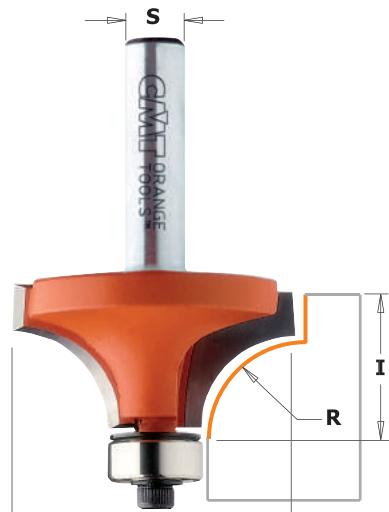
R mm	D mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
2	22,8	19,5	64	10	661.021.11	661.020.11			790.020.00 990.076.00 991.061.00 791.007.00
2	27		57,5	10	661.021.41	661.020.41			790.020.04 990.078.00 991.061.00 791.003.00
3	27		57,5	10	661.031.41	661.030.41			790.030.04 990.078.00 991.061.00 791.003.00
3	24,8	19,5	64	10	661.031.11	661.030.11			790.030.00 990.076.00 991.061.00 791.007.00
5	28,8	19,5	64	10	661.051.11	661.050.11			790.050.00 990.076.00 991.061.00 791.007.00
6,35	28,5	24	67	10	661.064.11	661.063.11			790.064.00 990.075.00 991.061.00 791.006.00
8	31,8	24	67	10		661.080.11			790.080.00 990.075.00 991.061.00 791.006.00
8	31,8	24	77	10			661.581.11	790.080.00	990.075.00 991.061.00 791.006.00

Spare parts
990.400.00 M3 shield
990.051.00 M3x6mm TCEI screw
991.062.00 2,5mm hex key

990.410.00 M4 shield
990.052.00 M4x6mm TCEI screw
991.067.00 3mm hex key

990.423.00 Shield for 12,7mm bearing
990.058.00 1/8"x3 1/2" x1/2" TCEI screw
991.057.00 3/32" hex key

Roundover Bits



7/8/938

The smaller bearing on the CMT Beading bits makes a delicate inset at the base of the cut, giving you the advantage of an extra decorative option.

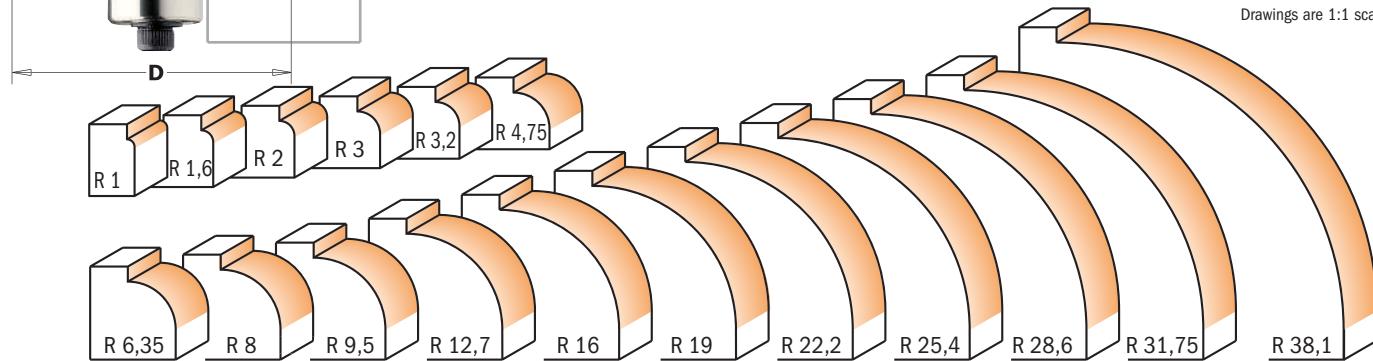
BE SURE to keep the black bearing washer right side up to correspond with the bearing rotation when reassembling the bearing. Improper reassembly can cause the bit to unscrew. All CMT roundover bits have a 12,7mm bearing diameter with the exception of the radius 28,6mm and 31,7mm bits which have a 19mm bearing diameter. You have 13 different radii to choose from, the majority having 5 shank diameter options. All bits are made of Fatigue Proof® steel and have carbide-tipped cutting edges.

SHOP TIPS: the CMT 1.6mm radius roundover bit is excellent for finishing laminates. Virtually eliminates the filing required when using conventional trim bits.

SAFETY TIPS: use caution when working with large diameter bits and make more than one pass to gradually remove stock. Pay particular attention when routing small pieces; and always rout on a router table equipped with a fence.

*Use only on router table

Drawings are 1:1 scale



R mm	D mm	I mm	Pack Qty.	Order No. S=Ø6,35mm	Order No. S=Ø6,35mm	Order No. S=Ø8mm	Order No. S=Ø12mm	Order No. S=Ø12,7mm	Spare parts
1	14,7	10	10	838.147.11	938.147.11				990.422.00 791.044.00 990.058.00 991.057.00
1,6	15,9	12,7	10	738.160.11	838.160.11	938.160.11			990.423.00 791.003.00 990.058.00 991.057.00
2	16,7	12,7	10	738.167.11°		938.167.11°			990.422.00 791.044.00 990.058.00 991.057.00
3	18,7	12,7	10	738.187.11°		938.187.11°			990.422.00 791.044.00 990.058.00 991.057.00
3,2	19,1	12,7	10	738.190.11	838.190.11	938.190.11			990.423.00 791.003.00 990.058.00 991.057.00
4,75	22,2	12,7	10	738.222.11	838.222.11	938.222.11			990.423.00 791.003.00 990.058.00 991.057.00
6,35	25,4	12,7	10	738.254.11	838.254.11	938.254.11	938.754.11	838.754.11	990.423.00 791.003.00 990.058.00 991.057.00
8	28,6	12,7	10	738.285.11	838.285.11	938.285.11			990.423.00 791.003.00 990.058.00 991.057.00
9,5	31,7	16	10	738.317.11	838.317.11	938.317.11	938.817.11	838.817.11	990.423.00 791.003.00 990.058.00 991.057.00
12,7	38,1	19	10	738.380.11	838.380.11	938.380.11	938.880.11	838.880.11	990.423.00 791.003.00 990.058.00 991.057.00
16	44,5	22	10		838.445.11	938.445.11	938.945.11	838.945.11	990.423.00 791.003.00 990.058.00 991.057.00
19	50,8	25,4	10				938.990.11	838.990.11	990.423.00 791.003.00 990.058.00 991.057.00
22,2	57,1	28,5	5				938.991.11	838.991.11	990.423.00 791.003.00 990.058.00 991.057.00
25,4	63,5	33,3	5				938.992.11*	838.992.11*	990.423.00 791.003.00 990.058.00 991.057.00
28,6	76,2	38,1	5				938.993.11*	838.993.11*	541.550.00 791.004.00 990.058.00 991.057.00
31,75	82,5	44,4	5				938.994.11*	838.994.11*	541.550.00 791.004.00 990.058.00 991.057.00
38,1	88,9	44,4	5				938.996.11*	838.996.11*	990.423.00 791.003.00 990.058.00 991.057.00

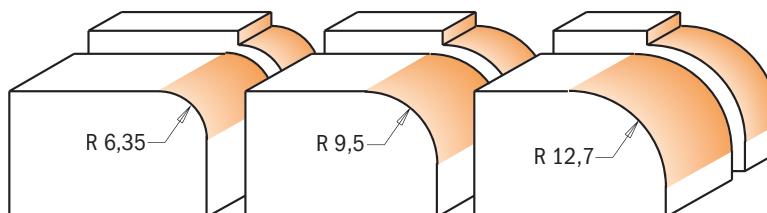
°791.044.00 Delrin® Bearing

Roundover Set



838

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 12,7mm and 6,35mm shanks. Roundover radii are 6,35mm, 9,5mm and 12,7mm. 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.

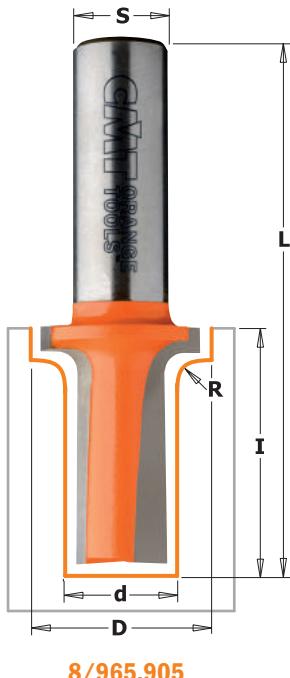


Drawings are 1:1 scale

DESCRIPTION	Pack Qty.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø12,7mm
Roundover set	5	838.001.11	838.501.11

Decorative Ogee Bits

CMT ORANGE TOOLS®



8/965.905

Drawings are 1:1 scale

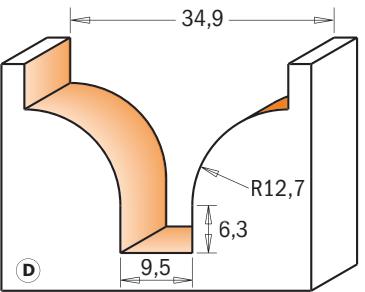
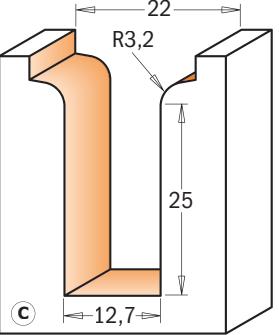
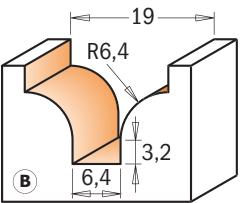
8/965.9



Enhance your doors and drawer fronts and leave your visitors amazed! The cutting edges on these ogee bits are carbide-tipped for effective, smooth and eye-catching work.

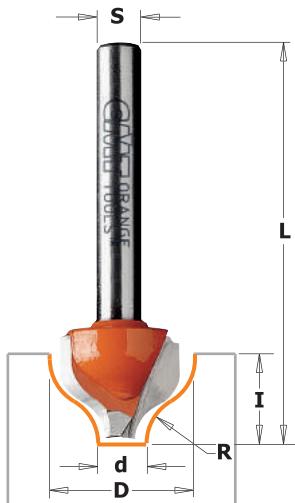


8/965.903
8/965.904



D mm	d mm	R mm	I mm	L mm	PROFILE	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
19	6,4	6,4	13	51	B	10	965.903.11	865.903.11
22	12,7	3,2	31,7	69,8	C	10	965.905.11	865.905.11
34,9	9,5	12,7	25	65,5	D	10	965.904.11	865.904.11

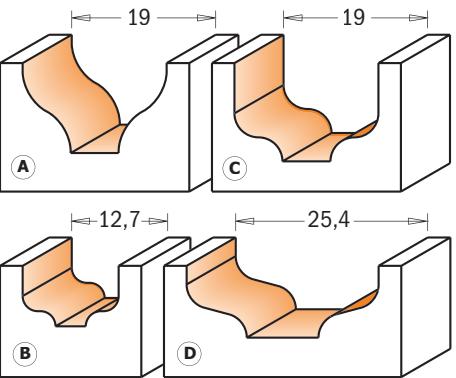
Decorative Ogee Bits



7/8/965



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.



Drawings are 1:1 scale

D mm	d mm	R mm	I mm	L mm	PROFILE	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
19	6,35	6,4	11	50,8	A	10	765.001.11	865.001.11	965.001.11	965.501.11	865.501.11
12,7	4	2	8	51	B	10		865.002.11	965.002.11		
19	6,35	3,2	13	68	C	10				965.503.11	865.503.11
25,4	9,5	3,2	9,5	49	D	10				965.504.11	865.504.11

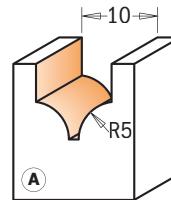
Decorative Beading Bits

CMT ORANGE TOOLS®



7/8/965.4

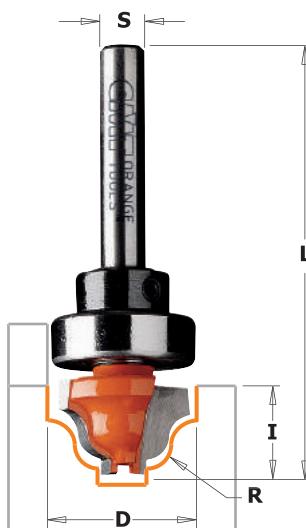
Make subtle decorative edges with this bit! Perfect for enhancing doors and drawer fronts, it will deliver smooth and flawless results. Carbide-tipped to ensure a clean, sharp and precise cut.



Drawing is 1:1 scale

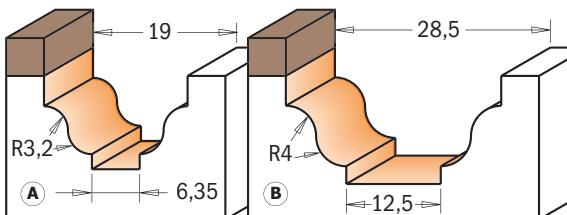
D mm	d mm	R mm	I mm	L mm	PROFILE	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm
10	1,3	5	10	50	A	10	765.402.11	865.402.11	965.402.11

Classical Bead Bits

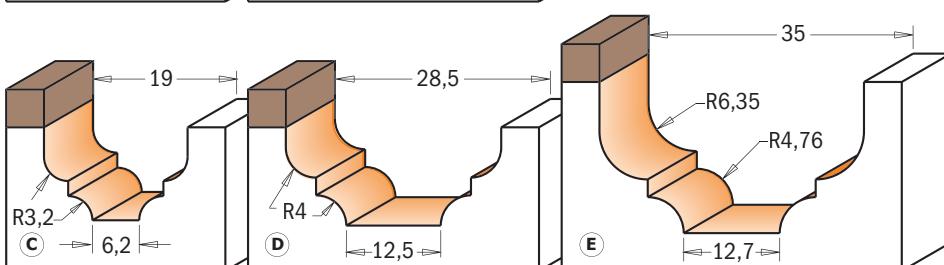


7/8/965B

This bit gives you even more decorative possibilities for panel and edge work. The bit design offers a wide flat bottom cut and a longer shank allows for a greater depth in the detail of the profile.



Drawings are 1:1 scale

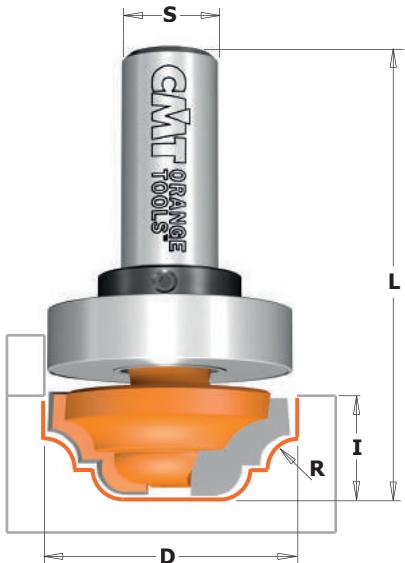


D mm	R mm	I mm	L mm	PROFILE	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
19	3,2	12,3	54	A	10	765.201.11B					791.007.00 541.003.00 991.056.00
19	3,2	12,3	54	A	10		865.201.11B				791.004.00 541.001.00 991.056.00
28,6	4	14,3	58,8	B	10			965.202.11B			791.027.00 541.002.00 991.056.00
28,6	4	14,3	58,8	B	10				965.702.11B		791.027.00 541.005.00 991.056.00
28,6	4	14,3	58,8	B	10					865.702.11B	791.027.00 541.002.00 991.056.00
19	3,2	12,3	54	C	10	765.301.11B					791.007.00 541.003.00 991.056.00
19	3,2	12,3	54	C	10		865.301.11B				791.004.00 541.001.00 991.056.00
28,6	4	13,3	58	D	10			965.302.11B		865.802.11B	791.027.00 541.002.00 991.056.00
28,6	4	13,3	58	D	10				965.802.11B		791.027.00 541.005.00 991.056.00
34,9	4,76 - 6,35	18,5	66,1	E	10			965.303.11B			791.031.00 541.004.00 991.056.00
34,9	4,76 - 6,35	18,5	66,1	E	10					865.803.11B	791.029.00 541.002.00 991.056.00

Spare parts 990.005.00 M3x3mm TSEI screw

Plunge Ogee Bits

CMT ORANGE TOOLS®

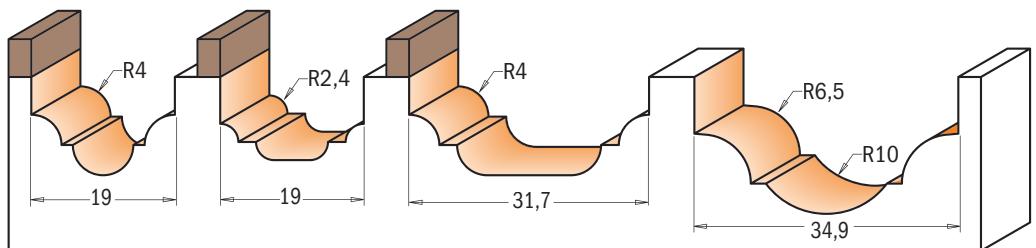


7/8/948 - 7/8/948B

You will never run out of ideas with this creative bit. Add a classic touch to any edge or highlight door fronts and panels with decorative layered effects.

For even more options, try the CMT plunge ogee with bearing guide for pattern following.

For more CMT ogee profile options, choose among plunge ogee bits equipped with a top bearing. Excellent for achieving accurate decorative work and guaranteed for long-lasting performance.



Drawings are 1:1 scale

D mm	R mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
19	4	13	51,1	10	748.190.11	848.190.11	948.190.11		
19	2,4	12	53	10	748.191.11	848.191.11	948.191.11		
31,7	4	13	58	10			948.317.11	948.817.11	848.817.11
34,9	6,5-10	18	68	10				948.850.11	848.850.11

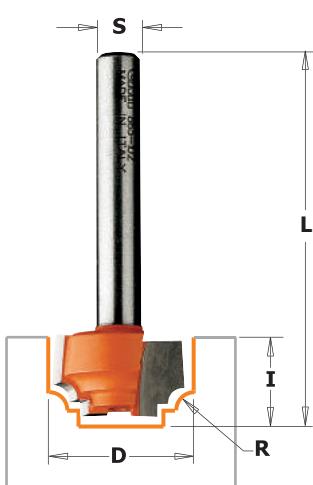
With Top Bearing

19	4	13	51,1	10	748.190.11B				
19	4	13	51,1	10		848.190.11B			
19	2,4	12	53	10	748.191.11B				
19	2,4	12	53	10		848.191.11B			
31,7	4	13	58	10			948.317.11B		
31,7	4	13	58	10				948.817.11B	
31,7	4	13	58	10					848.817.11B

Spare parts 990.005.00 M3x3mm TSEI screw

Spare parts

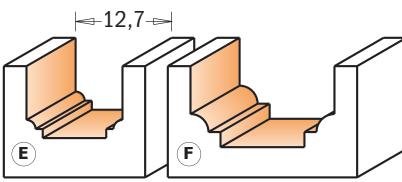
791.007.00	541.003.00	991.056.00
791.004.00	541.001.00	991.056.00
791.007.00	541.003.00	991.056.00
791.004.00	541.001.00	991.056.00
791.015.00	541.002.00	991.056.00
791.015.00	541.005.00	991.056.00
791.015.00	541.002.00	991.056.00



Decorative Ogee Bits

7/8/965.1

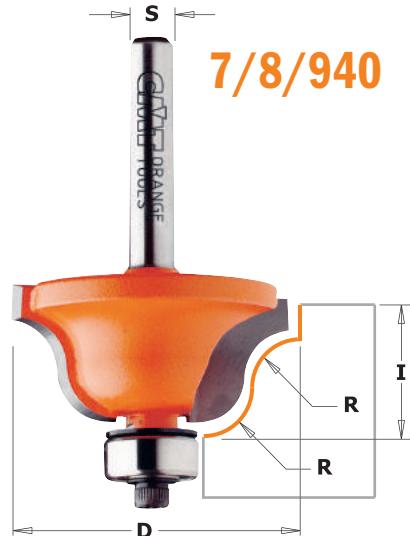
This new CMT bit produces a classic single or double edged bead. Ideal for creating a marked decorative effect on panel, door and drawer work.



Drawings are 1:1 scale

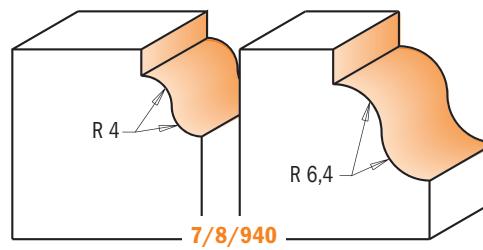
D mm	d mm	R mm	I mm	L mm	PROFILE	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	
12,7	8,4	1,2	12,7	50,8	E	10	765.101.11	865.101.11	965.101.11	
19	11,1	2,4	11	50,8	F	10	765.102.11	865.102.11	965.102.11	

Roman Ogee Bits

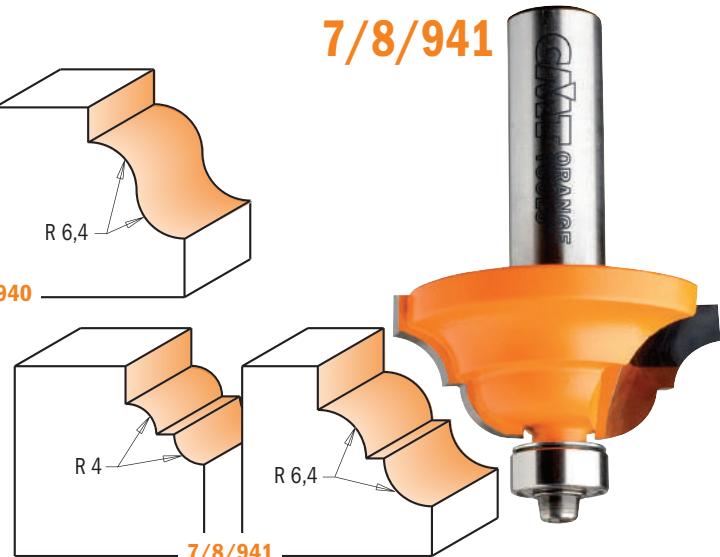


The roman ogee may be the most popular edge treatment in woodworking, and it is certainly one of the most beautiful. This bit includes all CMT bit features and produces a perfect rendition of classic design.

SHOP TIPS: for best results, multiple passes are recommended.



7/8/941

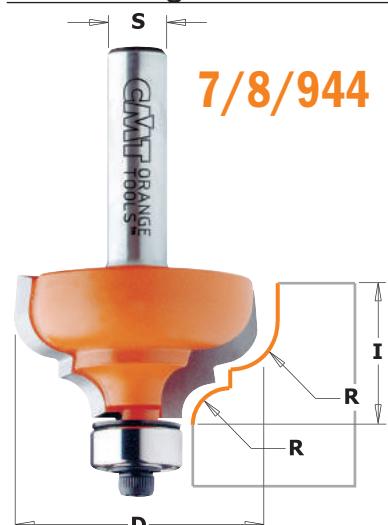


This bit takes the Roman Ogee a step further. The horizontal bead adds style and elegance to the traditional shape contour.

SHOP TIPS: for best results, multiple passes are recommended.

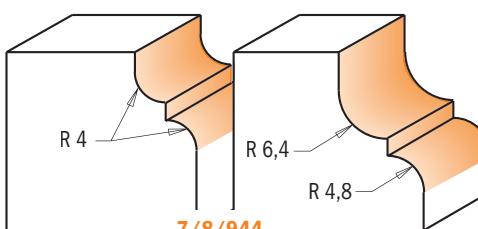
R mm	D mm	I mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
4	28,7	11,5	10	740.270.11	840.270.11	940.270.11	940.770.11	840.770.11	990.423.00 791.003.00 990.058.00 991.057.00
6,4	38,1	17,3	10	740.350.11	840.350.11	940.350.11	940.850.11	840.850.11	990.423.00 791.003.00 990.058.00 991.057.00
4	33,4	13	10	741.285.11	841.285.11	941.285.11	941.785.11	841.785.11	990.423.00 791.003.00 990.058.00 991.057.00
6,4	42,8	18,5	10	741.380.11	841.380.11	941.380.11	941.880.11	841.880.11	990.423.00 791.003.00 990.058.00 991.057.00

Classical Ogee Bits

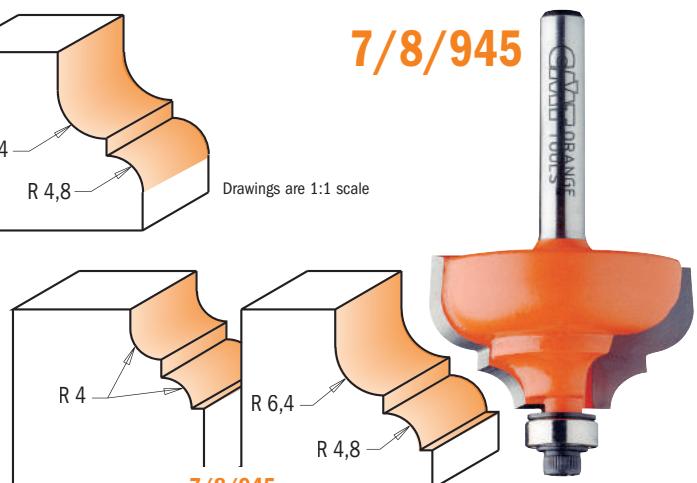


CMT's classical ogee bits feature an inverted ogee profile, with the concave edge adjacent to the upper surface of the workpiece. A vertical bead was added to separate the curves and creates an eye-catching shape.

SHOP TIPS: for best results, multiple passes are recommended.



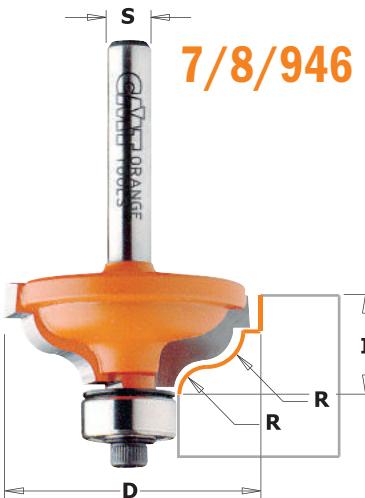
7/8/945



This profile includes a horizontal bead along the bottom of the profile adding a decorative detail to the traditional ogee design.

SHOP TIPS: for best results, multiple passes are recommended.

R mm	D mm	I mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
4	28,7	13	10	744.287.11	844.287.11	944.287.11	944.787.11	844.787.11	990.423.00 791.003.00 990.058.00 991.057.00
6,4-4,8	35	18,5	10	744.350.11	844.350.11	944.350.11	944.850.11	844.850.11	990.423.00 791.003.00 990.058.00 991.057.00
4	28,7	13	10	745.287.11	845.287.11	945.287.11	945.787.11	845.787.11	990.422.00 791.002.00 990.058.00 991.057.00
6,4-4,8	35	18,5	10	745.350.11	845.350.11	945.350.11	945.850.11	845.850.11	990.422.00 791.002.00 990.058.00 991.057.00

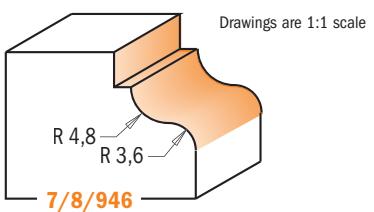
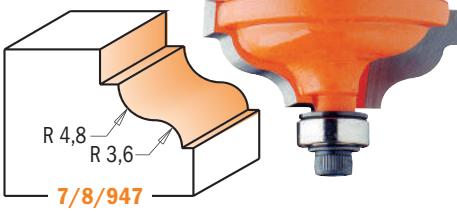
**7/8/946**

Take a complete assortment of CMT ogee bits into your shop. These bits feature micrograin carbide edges, high strength steel and the trademarked orange non-stick PTFE coating.

SHOP TIPS: for best results, multiple passes are recommended.

For a more-detailed profile, this bit adds an inset bead along the lower edge of the cut.

SHOP TIPS: for best results, multiple passes are recommended.

**7/8/947****7/8/946****7/8/947**

Drawings are 1:1 scale

R mm	D mm	I mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
4,8-3,6	34,2	13	10	746.325.11	846.325.11	946.325.11	946.825.11	846.825.11	990.423.00 791.003.00 990.058.00 991.057.00
4,8-3,6	34,2	13	10	747.325.11	847.325.11	947.325.11	947.825.11	847.825.11	990.422.00 791.002.00 990.058.00 991.057.00

Ogee Bits

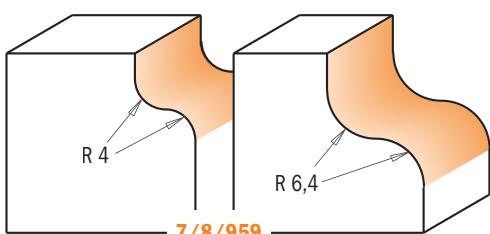
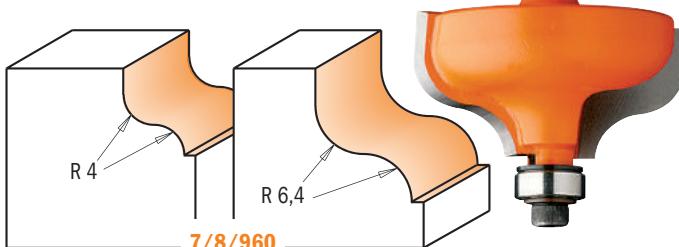
**7/8/959**

These profiles are the mirror image of the traditional roman ogee. They add sharp defining details to the edges of cabinets and furniture, before rolling into a smooth convex shape.

SHOP TIPS: for best results, multiple passes are recommended.

These bits are identical to the 7/8/959 series with the addition of an inset bead along the lower edge.

SHOP TIPS: for best results, multiple passes are recommended.

**7/8/959****7/8/960****7/8/960**

Drawings are 1:1 scale

R mm	D mm	I mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
4	28,7	13	10	759.040.11	859.040.11	959.040.11	959.540.11	859.540.11	990.423.00 791.003.00 990.058.00 991.057.00
6,4	38,1	18	10	759.064.11	859.064.11	959.064.11	959.564.11	859.564.11	990.423.00 791.003.00 990.058.00 991.057.00
4	28,7	13	10	760.040.11	860.040.11	960.040.11	960.540.11	860.540.11	990.422.00 791.002.00 990.058.00 991.057.00
6,4	38,1	18	10	760.064.11	860.064.11	960.064.11	960.564.11	860.564.11	990.422.00 791.002.00 990.058.00 991.057.00

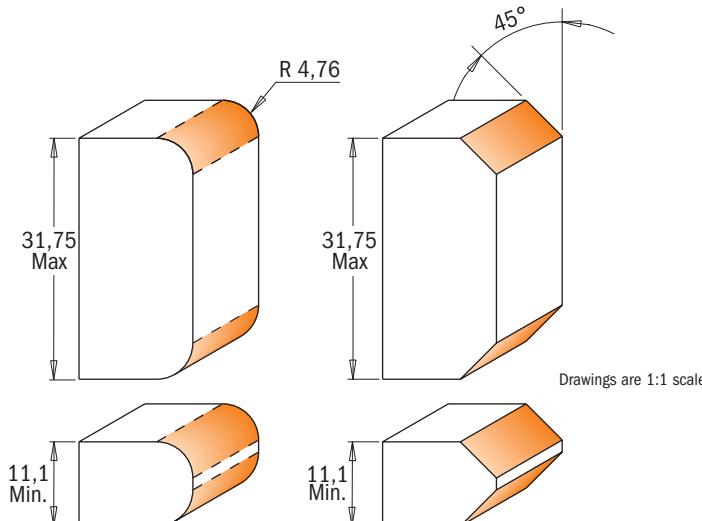
Adjustable Roundover & Bevel Router Bits

CMT ORANGE TOOLS®



8/900.623

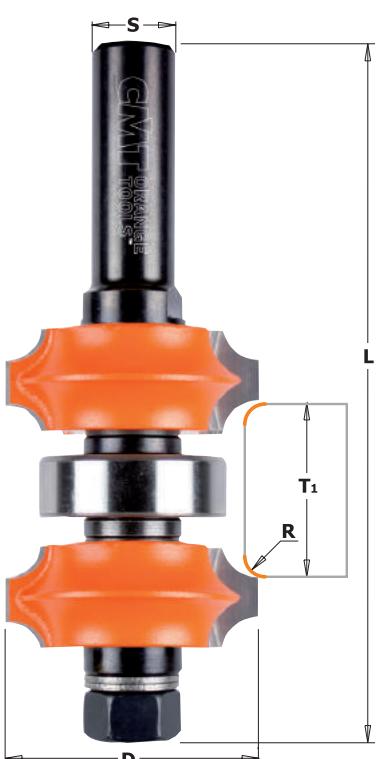
These CMT bits are ideal for making attractive edgework! Create a double 4,76mm (3/16") roundover profile, a double 45° bevel or even a mixed profile on your wood panels easily and in a cost-effective way! Interchangeable shims are included to allow for different stock thicknesses according to the board. To be used on table-mounted routers. Do not use these bits with hand-held power tools.



D mm	T ₁ mm	R mm	A	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
38,1	11,1 - 31,75	4,76	45°	100	10	900.623.11		924.137.00 791.037.00 822.029.11 822.030.11 990.020.00
38,1	11,1 - 31,75	4,76	45°	100	10		800.623.11	824.137.00 791.037.00 822.029.11 822.030.11 990.020.00

Spare parts

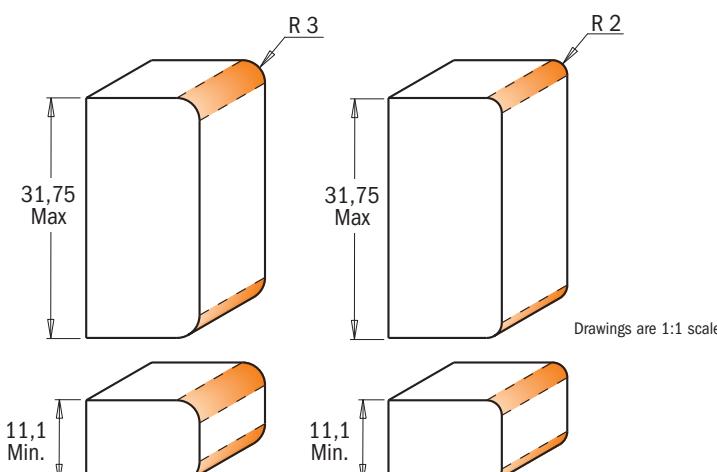
541.500.00	3mm spacer	541.518.00	1mm spacer
541.515.00	0,1mm spacer	541.519.00	5,8mm spacer
541.517.00	0,5mm spacer		



Adjustable Double Roundover Router Bits

8/900.622

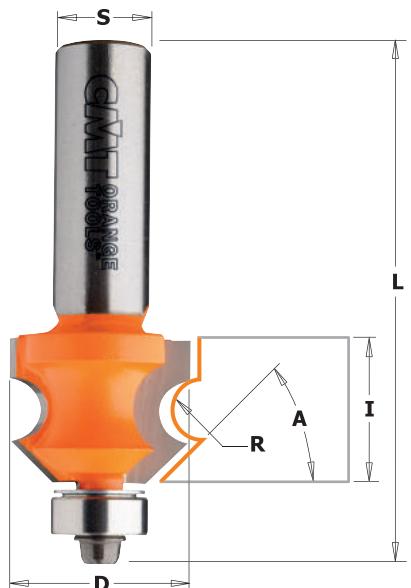
Create awesome furnishing decorations with these new CMT bits! They provide a double 2mm (5/64") and 3mm (1/8") roundover profile on your wood panels easily and in a cost-effective way! Interchangeable shims are included to allow for different stock thicknesses according to the board. To be used on table-mounted routers. Do not use these bits with hand-held power tools.



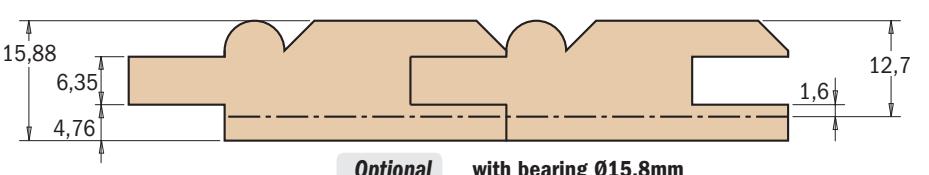
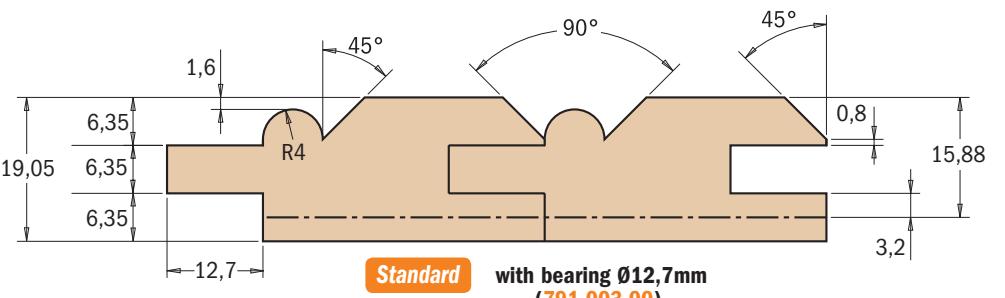
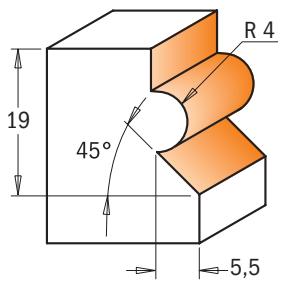
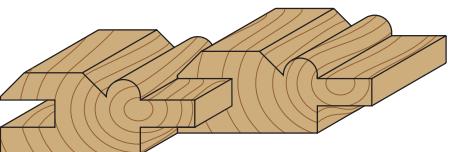
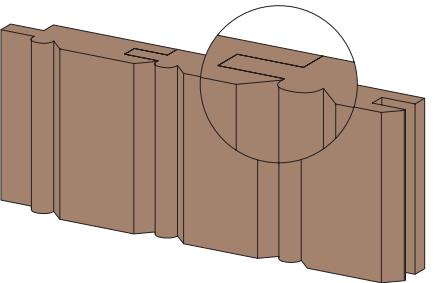
D mm	T ₁ mm	R mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
34	11,1 - 31,75	3 - 2	100	10	900.622.11		924.137.00 791.037.00 822.031.11 822.032.11 990.020.00
34	11,1 - 31,75	3 - 2	100	10		800.622.11	824.137.00 791.037.00 822.031.11 822.032.11 990.020.00

Spare parts

541.500.00	3mm spacer	541.516.00	0,3mm spacer
541.501.00	4mm spacer	541.518.00	1mm spacer
541.515.00	0,1mm spacer	541.519.00	5,8mm spacer


8/961.6

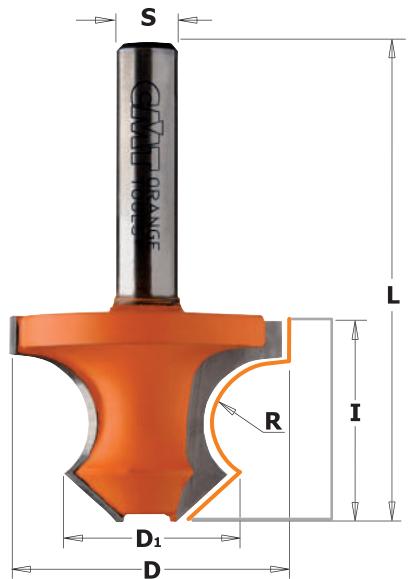
This new router bit designed for 19mm (3/4") thick stock is perfect for creating wainscots and panels on your walls. Simply create a 6,35mm (1/4") tongue-and-groove interlock with a CMT 8/900.626.11, then, with two passes mill an attractive traditional beadboard profile with this new bit. Perfect for cabinets, bookcase backings, ceiling and wall paneling.



Drawing is 1:1 scale

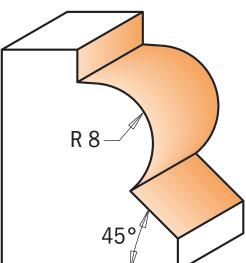
D mm	I mm	R mm	A	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
23,8	19,05	4	45°	67,7	10	961.601.11	861.601.11	990.423.00 791.003.00 990.058.00 991.057.00

Corner Beading Bit with 45° Chamfer


954

An innovative bit to create beautiful edges and corner beads.

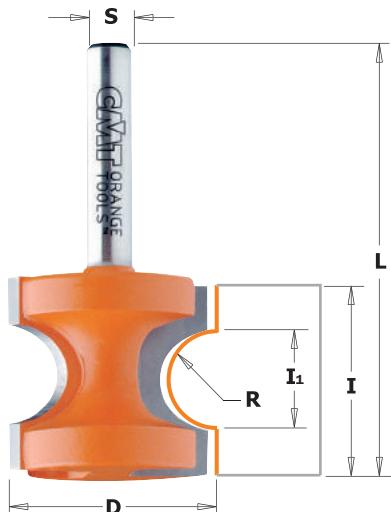
SAFETY TIPS: to be used only on CNC machines or router tables equipped with a fence.



Drawing is 1:1 scale

D mm	D ₁ mm	I mm	R mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm
36	22	25	8	60	10	954.080.11

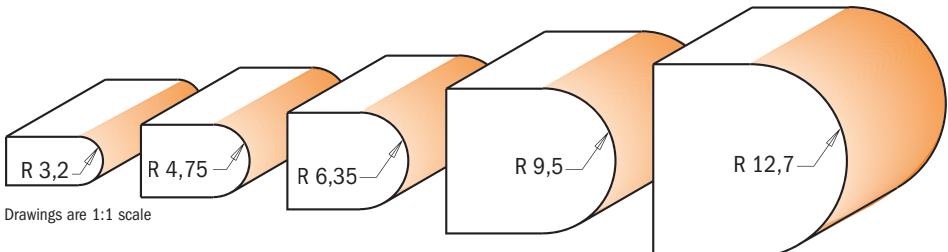
Bead & Bull Nose Bits



7/8/954

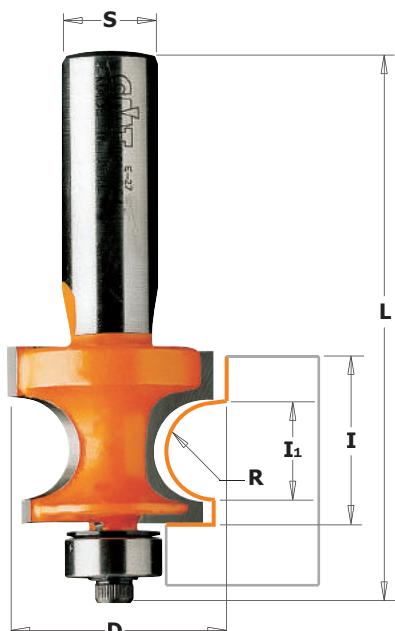
CMT's bull nose bits create elegantly finished edges on stair treads, window sills and shelves in one pass. Add a final touch by using a cutter with a bead diameter wider than the stock thickness. CMT bull nose bits have bead diameters from 6,35mm (1/4") to 25,4mm (1") and each bit features carbide-tipped cutting edges, anti-kickback design and the orange PTFE non-stick coating trademark.

SAFETY TIPS: to be used only on router tables equipped with a fence. Do not remove the workpiece while the bit is routing.



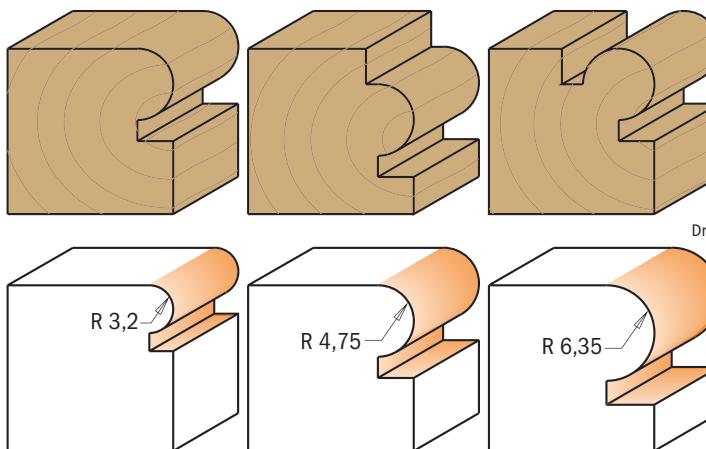
R mm	D mm	I ₁ mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
3,2	22,2	6,56	19	50,8	10	754.002.11	854.002.11	954.002.11	954.502.11	854.502.11
3,2	22,2	6,56	19	57,2	10					
4,75	25,4	9,85	22	54	10	754.003.11	854.003.11	954.003.11	954.503.11	854.503.11
4,75	25,4	9,85	22	60,4	10					
6,35	28,6	13,15	25,5	57,2	10	754.004.11	854.004.11	954.004.11	954.504.11	854.504.11
6,35	28,6	13,15	25,5	63,5	10					
9,5	34,9	19,71	35	73	10				954.507.11	854.507.11
12,7	44,5	26,3	41	79,4	10				954.509.11	854.509.11

Corner Beading Bits



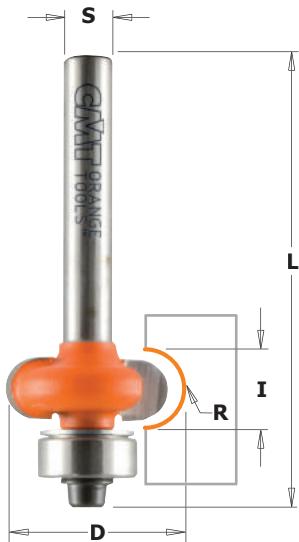
7/8/961

Make beautiful traditional beads and edge beads or turn old beads into new moldings with the new CMT corner beading bits with bearing. Featuring carbide-tipped cutting edges and orange PTFE non-stick coating, these bits provide excellent results on corner beads. Run the bead twice to form a complete corner bead.

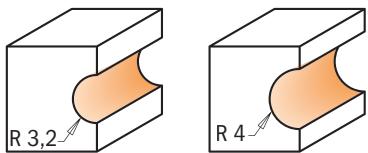


R mm	D mm	I ₁ mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
3,2	22,2	6,50	15	57,7	10	761.032.11	861.032.11	961.032.11	961.532.11	861.532.11	990.423.00 791.003.00 990.058.00
3,2	22,2	6,50	15	64	10						990.423.00 791.003.00 990.058.00
4,75	25,4	9,68	18,6	61,2	10	761.048.11	861.048.11	961.048.11	961.548.11	861.548.11	990.423.00 791.003.00 990.058.00
4,75	25,4	9,68	18,6	67,6	10						990.423.00 791.003.00 990.058.00
6,35	28,6	12,86	22,2	64,8	10	761.064.11	861.064.11	961.064.11	961.564.11	861.564.11	990.423.00 791.003.00 990.058.00
6,35	28,6	12,86	22,2	71,7	10						990.423.00 791.003.00 990.058.00

Spare parts 991.057.00 3/32" hex key

**7/862**

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.



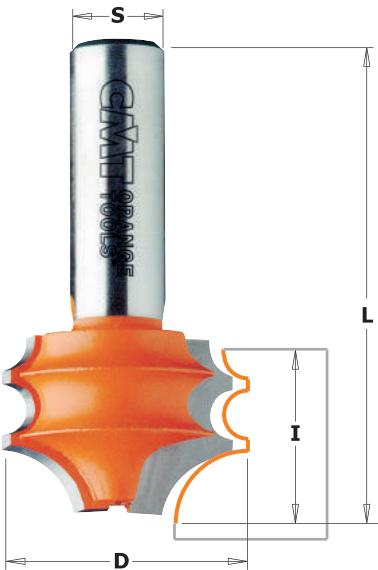
Drawings are 1:1 scale



For top bearing version:
use bearing **791.010.00**
and stop collar **541.001.00**
(optional)

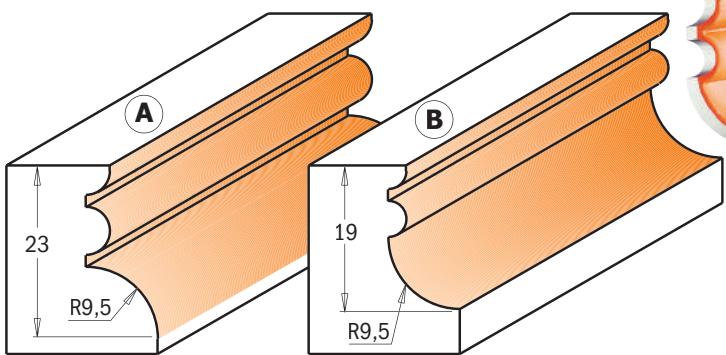
R mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	Spare parts
3,2	19,05	6,4	57	10	762.032.11	862.032.11	990.423.00 791.003.00 990.058.00 991.057.00
4	20,7	8	57	10	762.040.11	862.040.11	990.423.00 791.003.00 990.058.00 991.057.00
5	22,7	10	57	10	762.050.11	862.050.11	990.423.00 791.003.00 990.058.00 991.057.00

CMT Moulding System

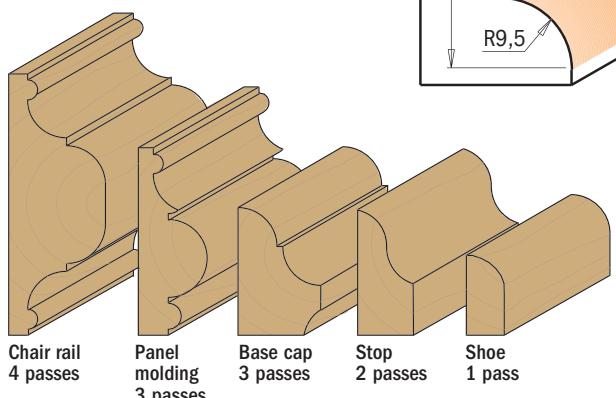
**8/956.852**

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.

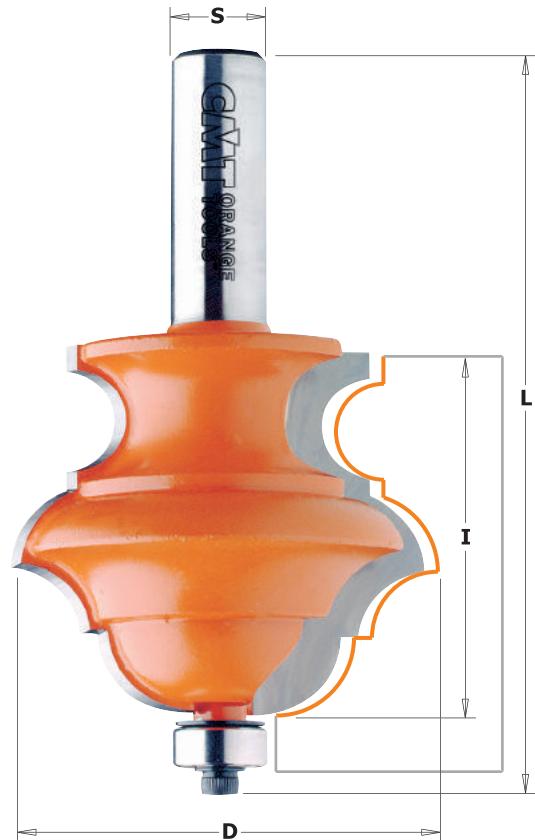
**8/956.851**

Drawings are 1:1 scale

Chair rail
4 passesPanel molding
3 passesBase cap
3 passesStop
2 passesShoe
1 pass

PROFILE	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
A	31,7	23	61,1	10	956.852.11	856.852.11
B	31,7	19	57,2	10	956.851.11	856.851.11

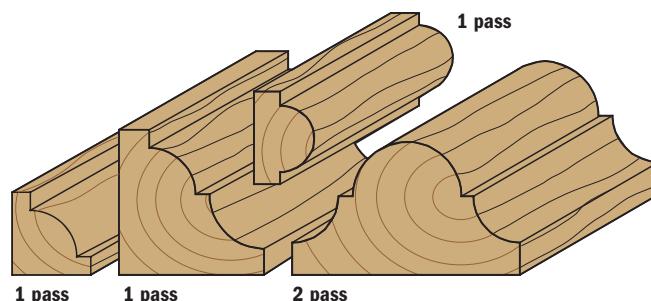
Multiprofile Bits



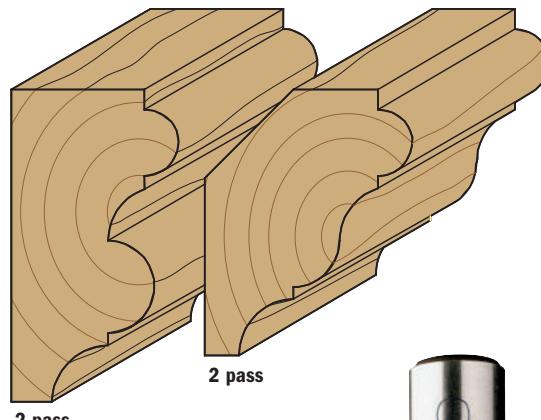
8/956.8

Create endless profiles with CMT multiprofile bits. Simply adjust the height of the bit to create classic profiles in one single pass, or make more complex decorative effects in multiple passes. The bits super-strength steel body can withstand long-lasting cutting operations, and the micrograin carbide tips remain sharp longer for superior performance. In addition these bits feature non-stick PTFE coating and anti-kickback design. To be used on tables equipped with a fence.

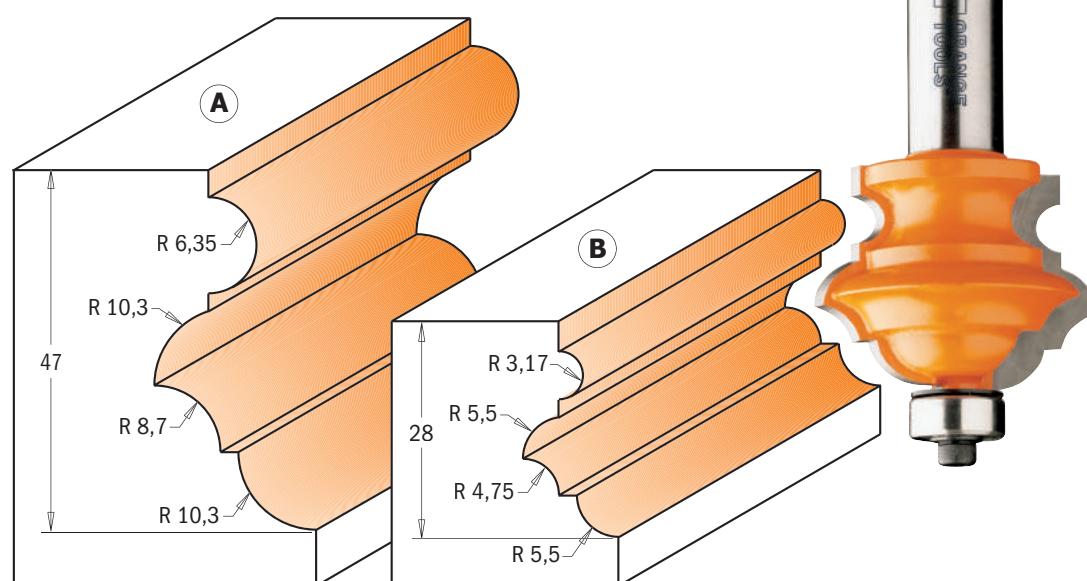
SAFETY TIPS: to make small mouldings as shown below, cut the profile from very wide stock. Remove the excess material and work on the bigger piece to give you easier control. Keep hands far from the bit when working.



1 pass 1 pass 2 pass



2 pass 2 pass



Drawings are 1:1 scale

PROFILE	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
A	55,6	47	96,4	5	956.802.11	856.802.11	990.423.00 791.003.00 990.058.00 991.057.00
B	38,1	28	77,5	10	956.801.11	856.801.11	990.423.00 791.003.00 990.058.00 991.057.00



Moulding Bits

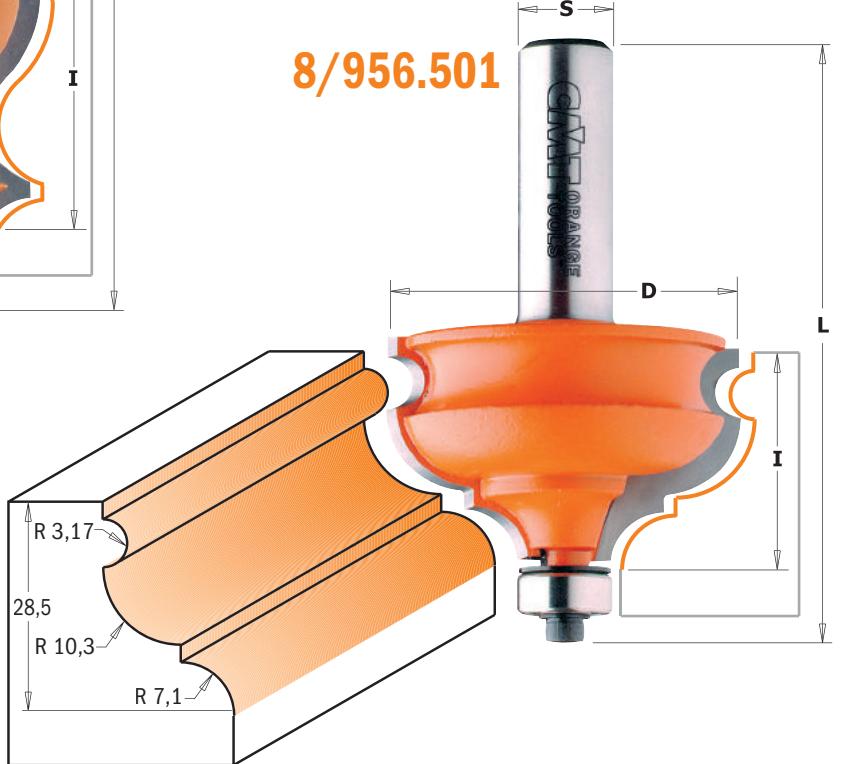
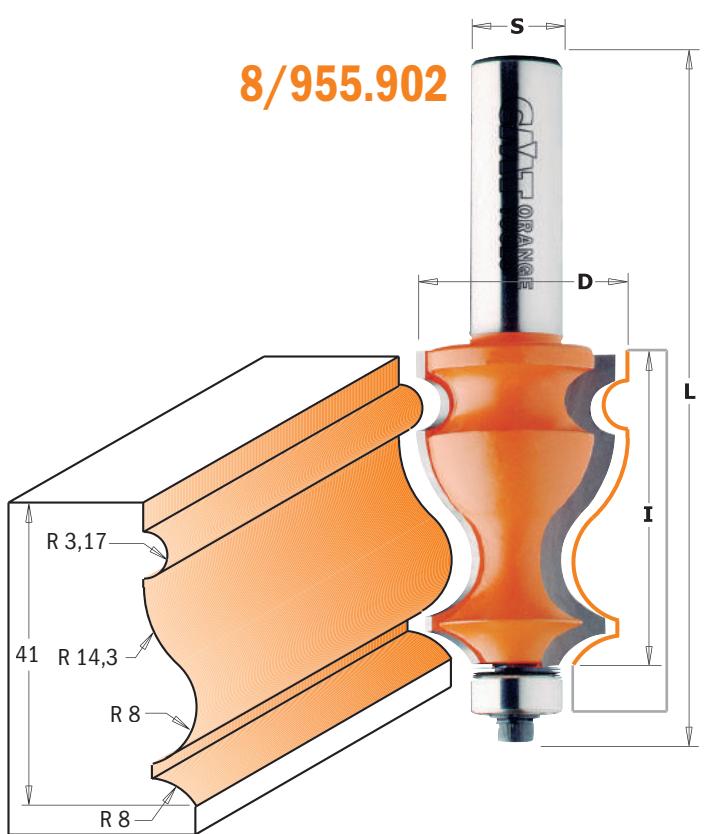
Why waste time searching for a particular style of frame moulding when you can just as quickly and easily make your own. With the wide range of decorative possibilities offered by CMT moulding bits, you can always create the edge profile you want, anywhere you want and any time you want. These bits are made to last a lifetime! Carbide-tipped cutters and solid bar stock steel shanks can withstand rigorous use and the non-stick PTFE coating allows for clean, smooth-running cuts.

The anti-kickback design guarantees safer operation when using these wide profile bits.

SHOP TIPS: multiple pass operations require advance planning. To avoid making a mistake that could render it impossible to finish the job, carefully consider the entire cutting sequence before you begin.

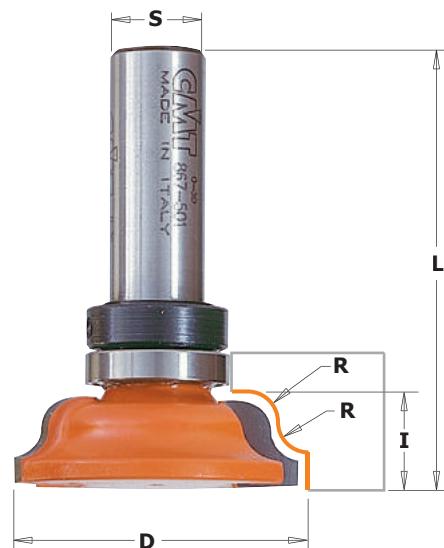
SAFETY TIPS: all large diameter bits such as these should be used with caution and on router tables equipped with a fence. For best results, 1,7 KW (2-1/4 HP) routers are recommended. Routers as low-powered as 1,1 KW (1-1/2 HP) can be used if limited to shorter, shallower runs. When possible, reduce the RPMs of the router for operations requiring the use of these bits.

Drawings are 1:1 scale



D mm	I mm	L mm	Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
23,8	35	83,8	10	955.901.11	855.901.11	
27	41	90,2	10	955.902.11	855.902.11	
47,5	28,5	77,4	10	956.501.11	856.501.11	

Moulding Bits

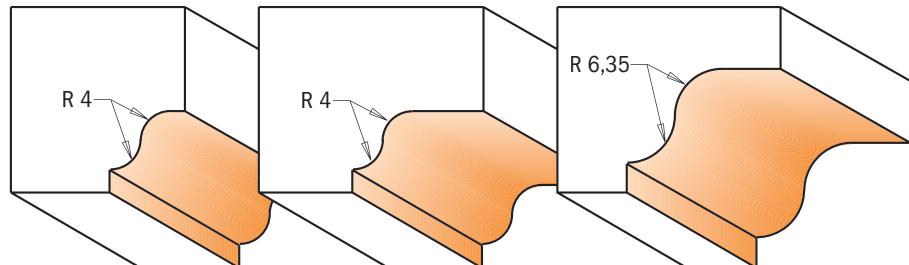


8/967.5B

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.



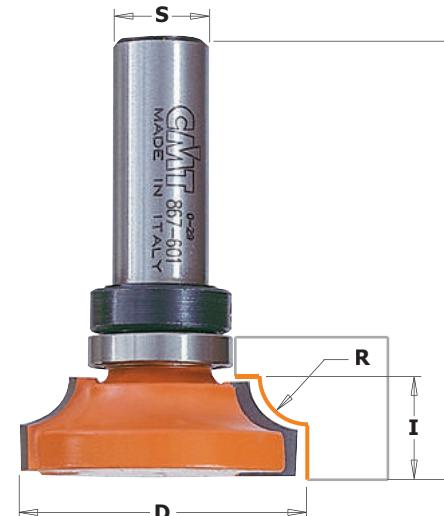
Drawings are 1:1 scale



Spare parts

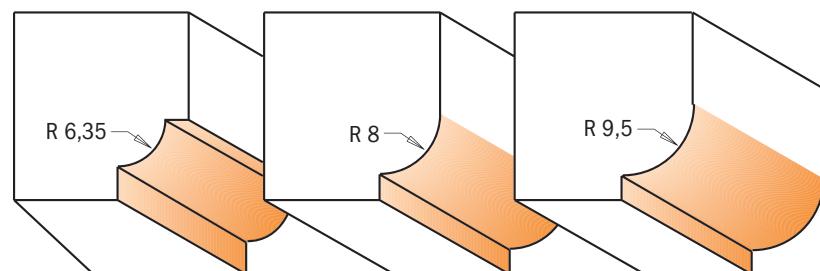
R mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm				
4	39,05	11,5	57	10	967.001.11B	967.501.11B	867.501.11B	791.011.00	541.002.00	990.005.00	991.056.00
4	54	11,5	65,9	10		967.502.11B	867.502.11B	791.011.00	541.002.00	990.005.00	991.056.00
6,35	60,5	17,3	71,7	5		967.503.11B	867.503.11B	791.011.00	541.002.00	990.005.00	991.056.00

Moulding Bits



8/967.6B

These bits allow you to shape elegant mouldings with your table saw and router. Unlike commercially available crown mouldings, these bits allow you to produce beautifully refined, easy to fit mouldings. After shaping the cove, you can use special router bits with inverted profiles to craft a variety of different edges.



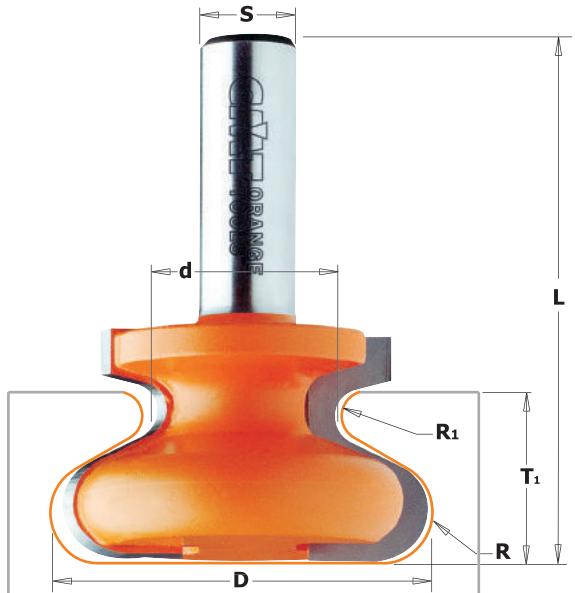
Drawings are 1:1 scale

Spare parts

R mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm				
6,35	38	12,5	57	10	967.101.11B	967.601.11B	867.601.11B	791.011.00	541.002.00	990.005.00	991.056.00
8	35	13,2	57,7	10	967.102.11B	967.602.11B	867.602.11B	791.011.00	541.002.00	990.005.00	991.056.00
9,5	38	14,5	59	10	967.103.11B	967.603.11B	867.603.11B	791.011.00	541.002.00	990.005.00	991.056.00

Finger Pull Bit

CMT ORANGE TOOLS®



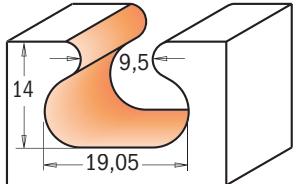
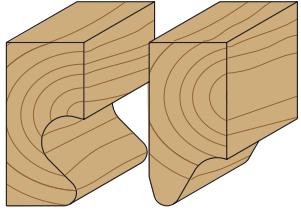
8/955

Why interrupt the subtle linearity of an all-wood drawer front or cabinet door with a metal knob or handle? Use a CMT finger pull bit and make a harmonious wooden handle. Two options are available: a template profile made directly in the wood or a European-style hardwood pull as illustrated below.

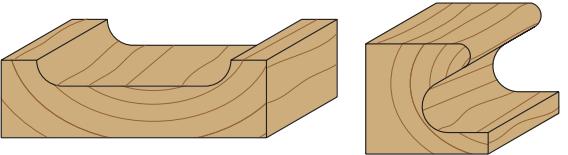
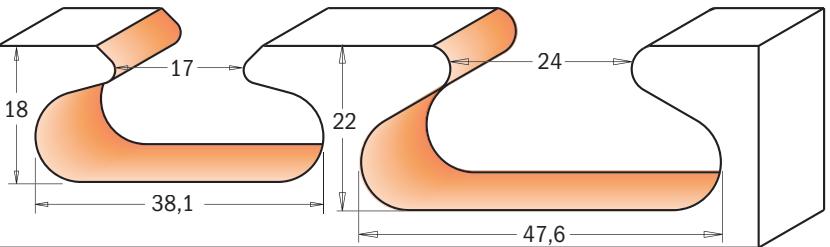
HW

Z2

RH

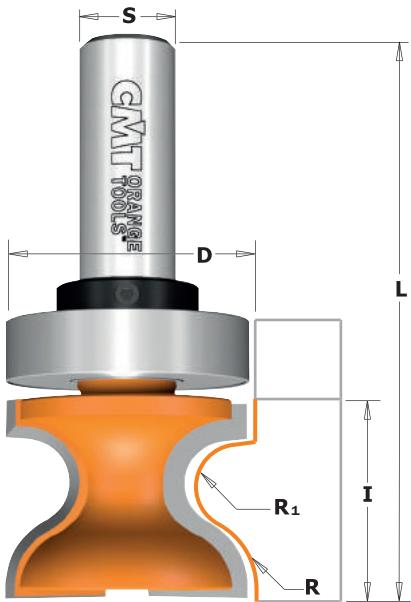


Drawings are 1:1 scale



D mm	d mm	T ₁ mm	I mm	R mm	R ₁ mm	L mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
19,05	9,5	14	19,05	4,76	2,4	57,2	10	955.102.11	855.602.11	
38,1	17	18	20,7	6	1,8	55,5	10	955.103.11		855.603.11
38,1	17	18	20,7	6	1,8	61,8	10			
47,6	24	22	28,5	6,35	3,2	66,6	10		955.601.11	855.601.11

Window Sill & Finger Bits



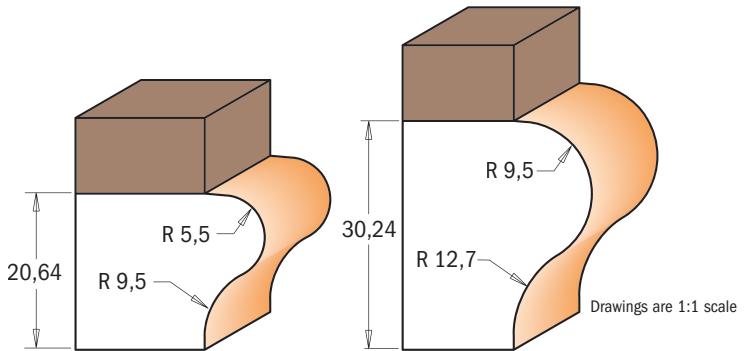
8/955.8 - 8/955.8B

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 for curved template work or without bearings for straight cuts against a fence. Recommended for router table use only.

HW

Z2

RH



Drawings are 1:1 scale

R ₁ mm	R mm	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
5,5	9,5	31,7	25,4	73	10	955.804.11	855.804.11
9,5	12,7	38,1	35	85,8	10	955.805.11	855.805.11
With Top Bearing							
5,5	9,5	31,7	25,4	73	10	955.804.11B	855.804.11B
5,5	9,5	31,7	25,4	73	10		855.804.11B
9,5	12,7	38,1	35	85,8	10	955.805.11B	855.805.11B
9,5	12,7	38,1	35	85,8	10		855.805.11B

Spare parts



791.015.00 541.005.00 990.005.00 991.056.00

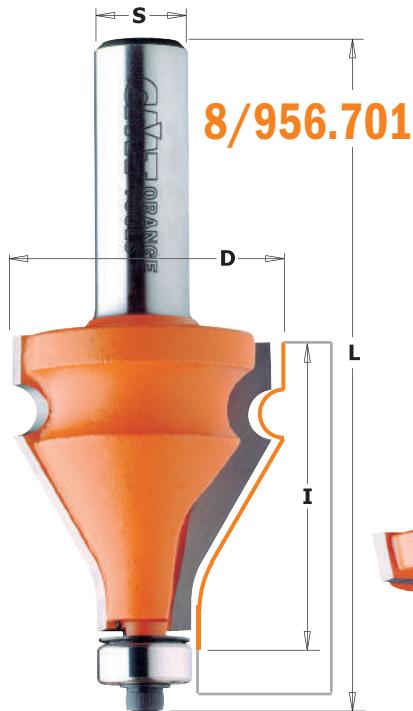
791.015.00 541.002.00 990.005.00 991.056.00

791.020.00 541.005.00 990.005.00 991.056.00

791.020.00 541.002.00 990.005.00 991.056.00

Table Edge & Hand Rail Bits

CMT ORANGE TOOLS®

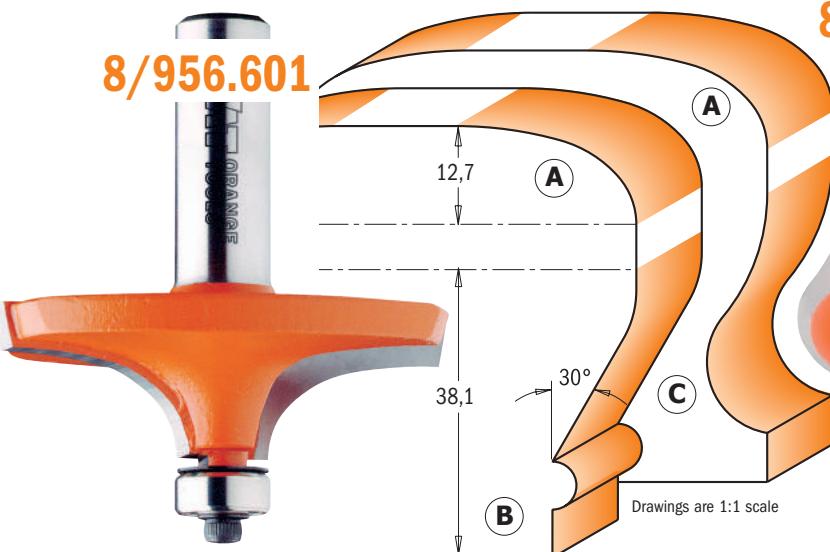


8/956.701

Turn a small investment into big returns with these CMT bits! These bits guarantee well-proportioned smooth curves, adding a touch of class and creating elegant eye-catching work. CMT hand rail bits feature a 30° bevel edge and a 3.2mm bead that craft beautiful and functional hand rails.

SAFETY TIPS: these profile bits remove large amounts of stock and make consistent quantities of dust. We recommend using a vacuum to keep the work area safe.

8/956.601



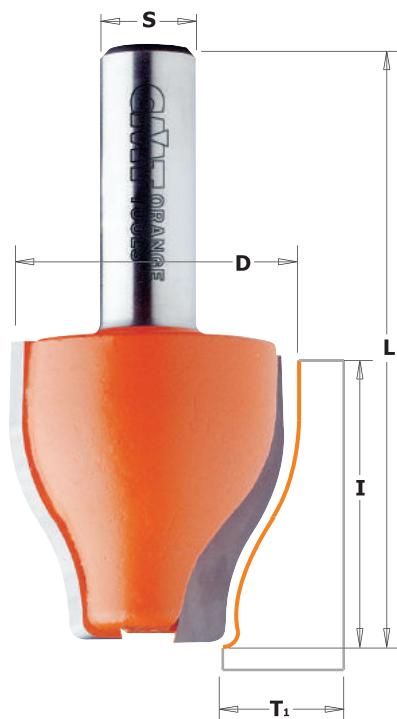
8/956.702



Drawings are 1:1 scale

PROFILE	D mm	I mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
A	63,5	19	67,9	5	956.601.11	856.601.11	990.423.00 791.003.00 990.058.00 991.057.00
B	35	38	87	10	956.701.11	856.701.11	990.423.00 791.003.00 990.058.00 991.057.00
C	31,7	38,1	87	10	956.702.11	856.702.11	990.423.00 791.018.00 990.058.00 991.057.00

Vertical Raised Panel Bits

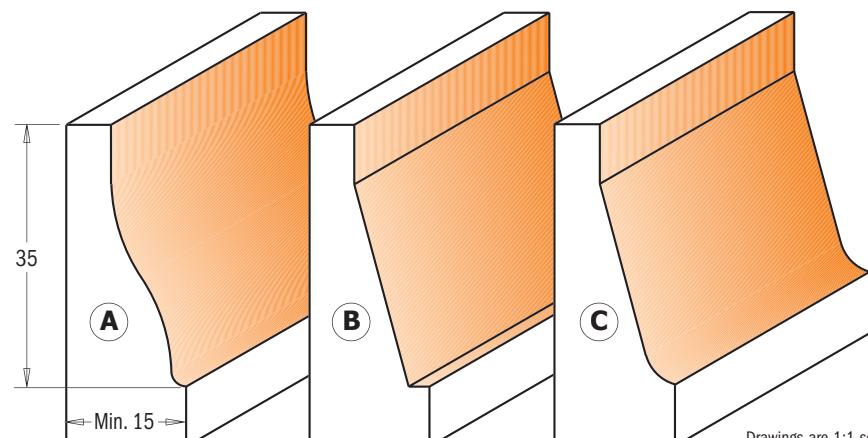


8/990.6

Create raised panel doors and drawer fronts easily and economically by simply putting a CMT vertical raised panel bit in your router* and a sturdy 90° angle fence on your router table. Studied, designed and crafted with the most sophisticated technology available, these bits are perfected down to the smallest detail. Choose from three vertical profile designs.

* Recommended for use on routers with a minimum speed of 1,7 KW (2-1/4 HP). Routers as low-powered as 1,1 KW (1-1/2 HP) can be used but we suggest limiting their use to shorter, shallower runs.

SAFETY TIPS: the template must be at least 150mm and clamps should be used whenever possible. Three to five passes are recommended to safely and accurately obtain the profile you desire.

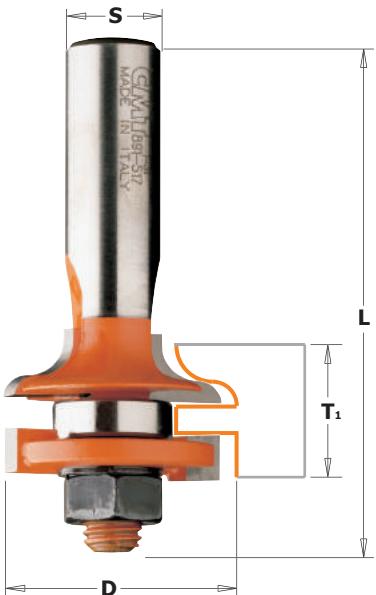


Drawings are 1:1 scale

PROFILE	D mm	I mm	T ₁ mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
A	38	38	15 ÷ 18	76,2	10	990.601.11	890.601.11
B	38	38	15 ÷ 18	76,2	10	990.602.11	890.602.11
C	38	38	15 ÷ 18	76,2	10	990.603.11	890.603.11

Junior Ogee Rail & Stile Set

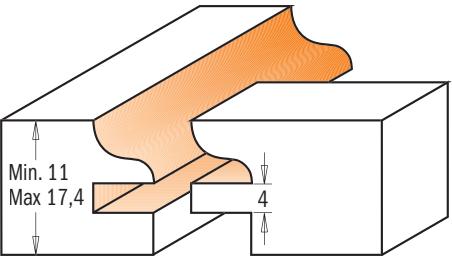
CMT ORANGE TOOLS®



8/991.517

HW **Z2** **RH**

These bits are designed for those special projects that require a smaller panel door. Use these bits with stock from 11,1mm to 17,4mm thick, and build doors as small as 70mm.



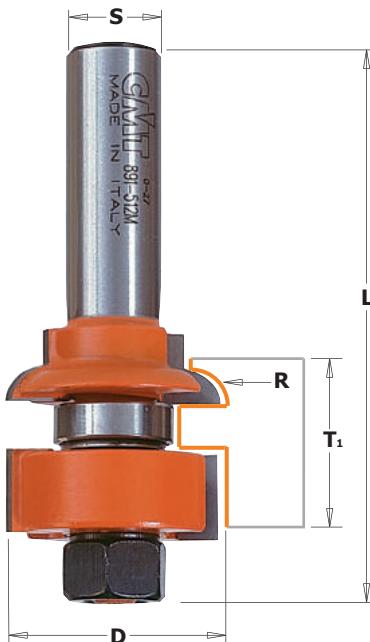
Drawings is 1:1 scale

D mm	T ₁ mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
31,75	11 ÷ 17,4	67	5	991.517.11	891.517.11	822.008.11 822.009.11 791.025.00 990.020.00

Spare parts

- 541.515.00 0,1mm spacer
- 541.516.00 0,3mm spacer
- 541.518.00 1,0mm spacer

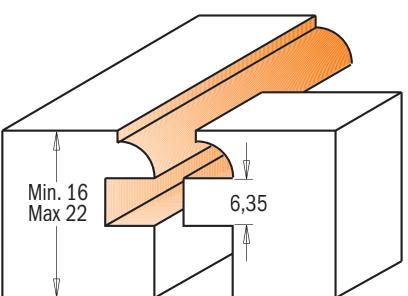
Rail & Stile Set



8/991

HW **Z2** **RH**

Designed for fine furniture construction, these bits mill a delicate 4,75mm thumbnail profile in stock from 15,8mm to 20,6mm.



Drawings is 1:1 scale

D mm	T ₁ mm	R mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
28,7	16 ÷ 22	4,8	79,2	10	991.012.11	891.512.11	822.011.11 822.012.11 791.025.00 990.020.00

Spare parts

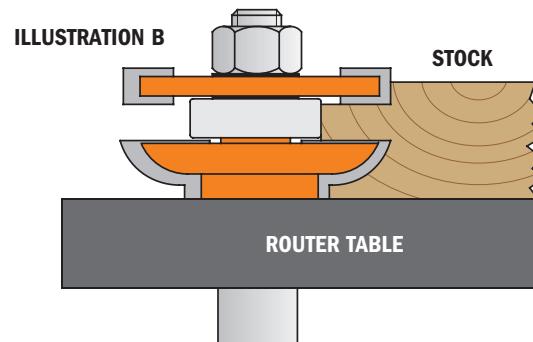
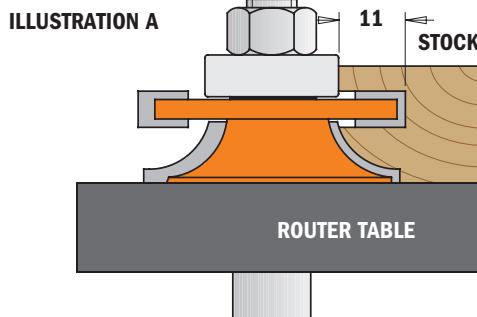
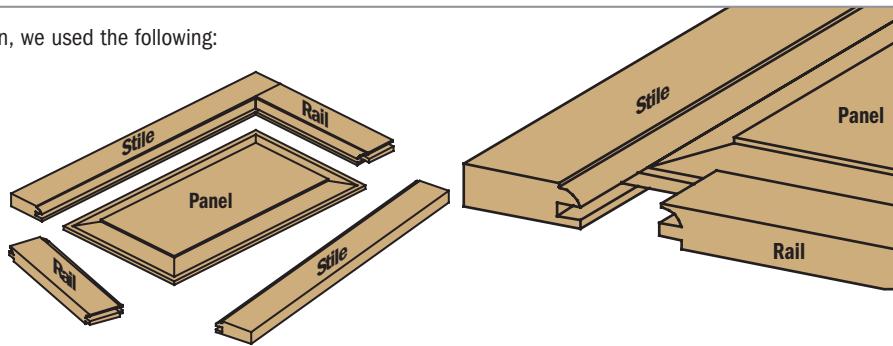
- 541.515.00 0,1mm spacer
- 541.516.00 0,3mm spacer
- 541.518.00 1,0mm spacer

The ABC's of Panel Door Construction

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 - 19mm thick x 57mm wide
- pre-cut to length rails - 19mm thick x 57mm wide
- panel - 16mm thick
- scrap stock

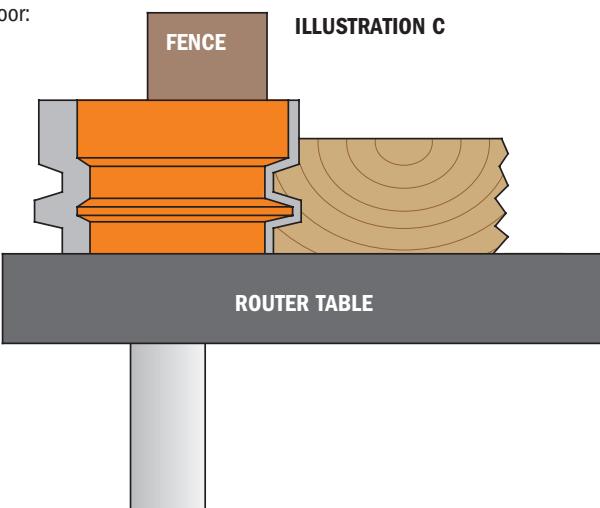
The CMT Rail & Stile set was designed ideally for the construction of panel doors from 19mm thick stock, however any variation of size up to 22mm thick can be used. Remember to adjust your measurements and cutting depths according to the wood thickness you use.



MILLING THE RAILS AND STILES

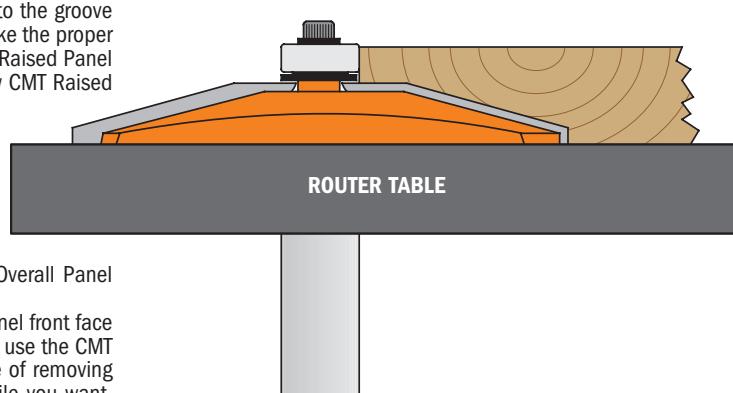
First make trial cuts of the cope profile (rail) and the stick profile (stile) in scrap stock and check the accuracy of the joint. This is extremely important when working at maximum thickness (22mm). Make sure your stock is flat and cut straight with square edges. Using the CMT Stile Bit shown in illustration A, place the stock front 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 B, position the rails face-down on the router table and mill the cope profile on the ends. If you are milling cope and stick profiles before cutting the rails and stiles to length, be sure to make the proper calculations before cutting the rails. The stiles are the same length as the door. The rails must be calculated by the following equation (CMT standard tenon length is 22mm):

(total door width - sum of stile widths) + sum of 2 tenons = total rail length
therefore, using our example measurements listed above, for a 300mm cabinet door:
300mm - 114mm + 22mm = 208mm



GLUEING UP PANELS

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 accomplished by simply using the CMT Reverse Glue Joint bit. For making a two panel glue joint, place the first panel front 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 centre point of the bit as illustrated in illustration B and mill the cut edge of the wood. Place the second panel front 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

Make trial cuts in scrap stock to create a tongue that fits snugly into the groove in the stile without forcing it. 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 8mm (The New CMT Raised Panel Bit profile has a 9,5mm tongue).

Use the following equation:

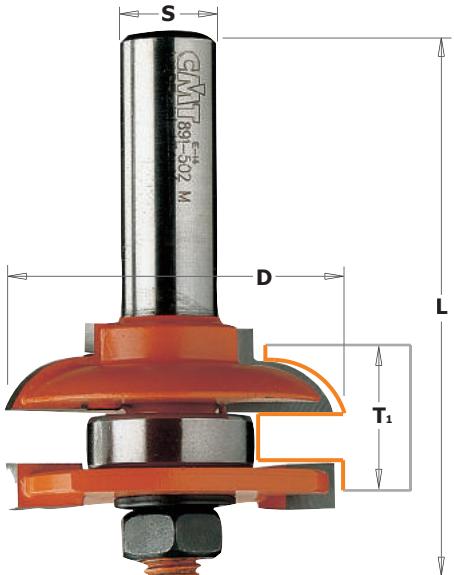
(Total door length - Sum of Stile widths) + Sum of 2 Tongues = Overall Panel Length

Therefore, using our example, measurements listed above for a 600mm long cabinet door: (600 - 114) + 16mm = 502mm

And accordingly:

(Total door width - Sum of Stile widths) + Sum of 2 Tongues = Overall Panel Width.

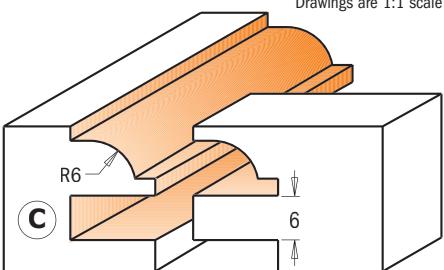
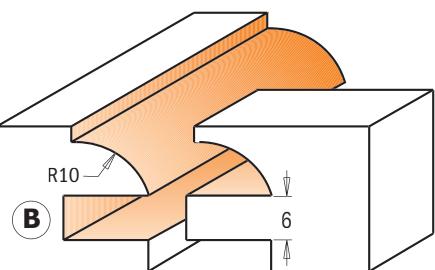
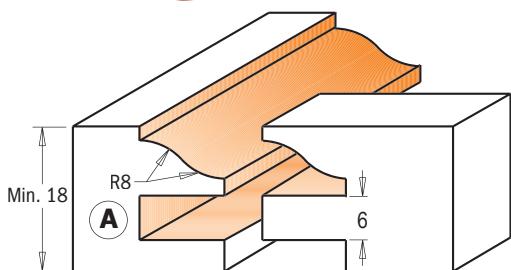
Once the panel has been cut to proper dimensions, position the panel front face side down on the router table tongue as shown in illustration C and use the CMT Raised Panel Bit to mill the tongue. ATTENTION: this bit is capable of removing large amounts of stock. To safely and effectively produce the profile you want, we suggest making several shallow passes. It can be dangerous to try to mill the entire profile in a single run.

**8/991**

A well constructed door will bear the mark of a perfect joint: clean, precise and well-crafted for strength. The CMT male-female rail and stile sets are a perfect pair for this particular project.

Made to our specifications, they match perfectly unlike the approximative results offered by standard reversible cutters.

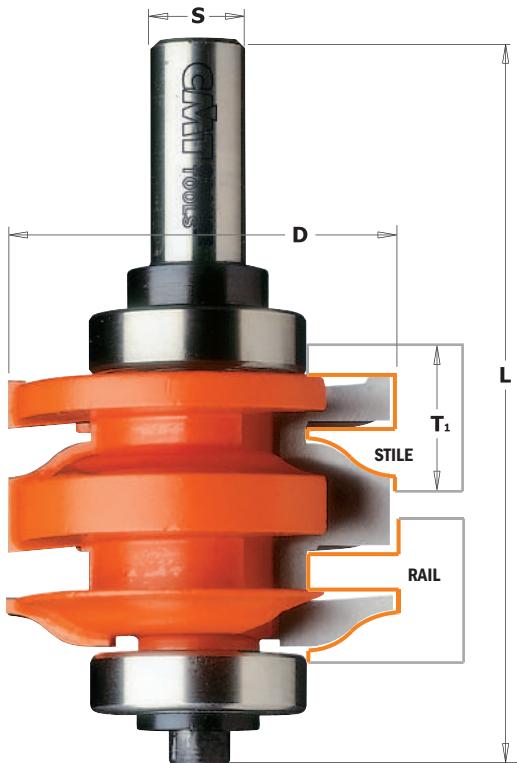
Choose the style of CMT rail and stile set that best suits your needs and create smooth, perfect joints in hard and soft woods with accuracy and speed. Perfect for working in stock from 18mm to 22mm. See chart and illustrations below for profile options available.



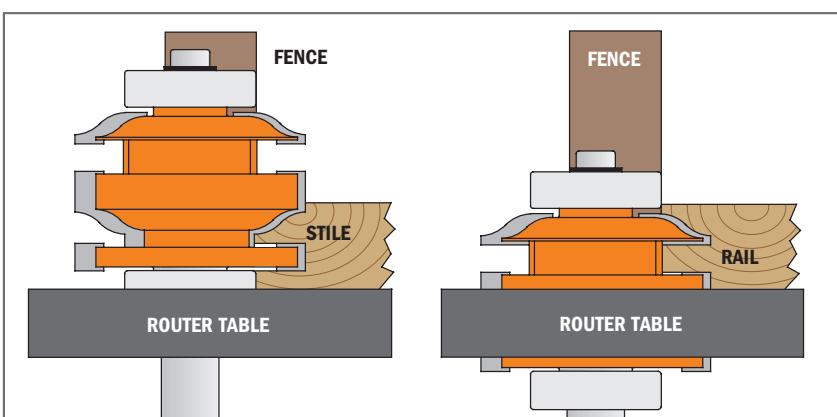
Drawings are 1:1 scale

Spare parts

PROFILE	D mm	L mm	T ₁ mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts					
A	44,4	71	18 ÷ 22	5	991.001.11	991.501.11	891.501.11	822.003.11	791.012.00	541.515.00	541.516.00	990.407.00	990.020.00
B	44,4	71	18 ÷ 22	5		991.502.11	891.502.11	822.003.11	791.012.00	541.515.00	541.516.00	990.407.00	990.020.00
C	44,4	71	18 ÷ 22	5		991.503.11	891.503.11	822.003.11	791.012.00	541.515.00	541.516.00	990.407.00	990.020.00

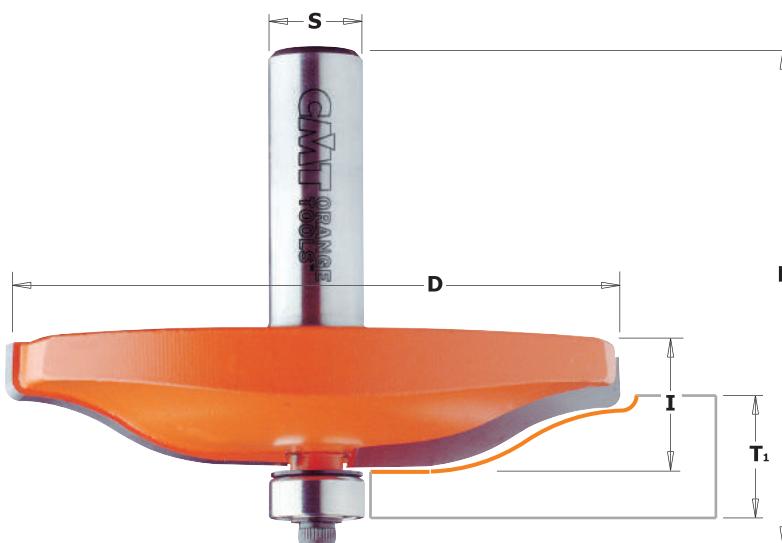
**8/991.521**

The most innovative bit for the construction of furniture doors and drawers. 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 bit. Suitable for stock ranging from 18mm to 22.2mm in thickness.



PROFILE	D mm	L mm	T ₁ mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts							
A	50,87	96	18 ÷ 22	10		891.521.11		791.027.00	541.002.00	990.005.00	991.056.00	541.551.00	990.010.00	991.064.00
A	50,87	96	18 ÷ 22	10	991.521.11			791.027.00	541.005.00	990.005.00	991.056.00	541.551.00	990.010.00	991.064.00

Raised Panel Bits


8/990

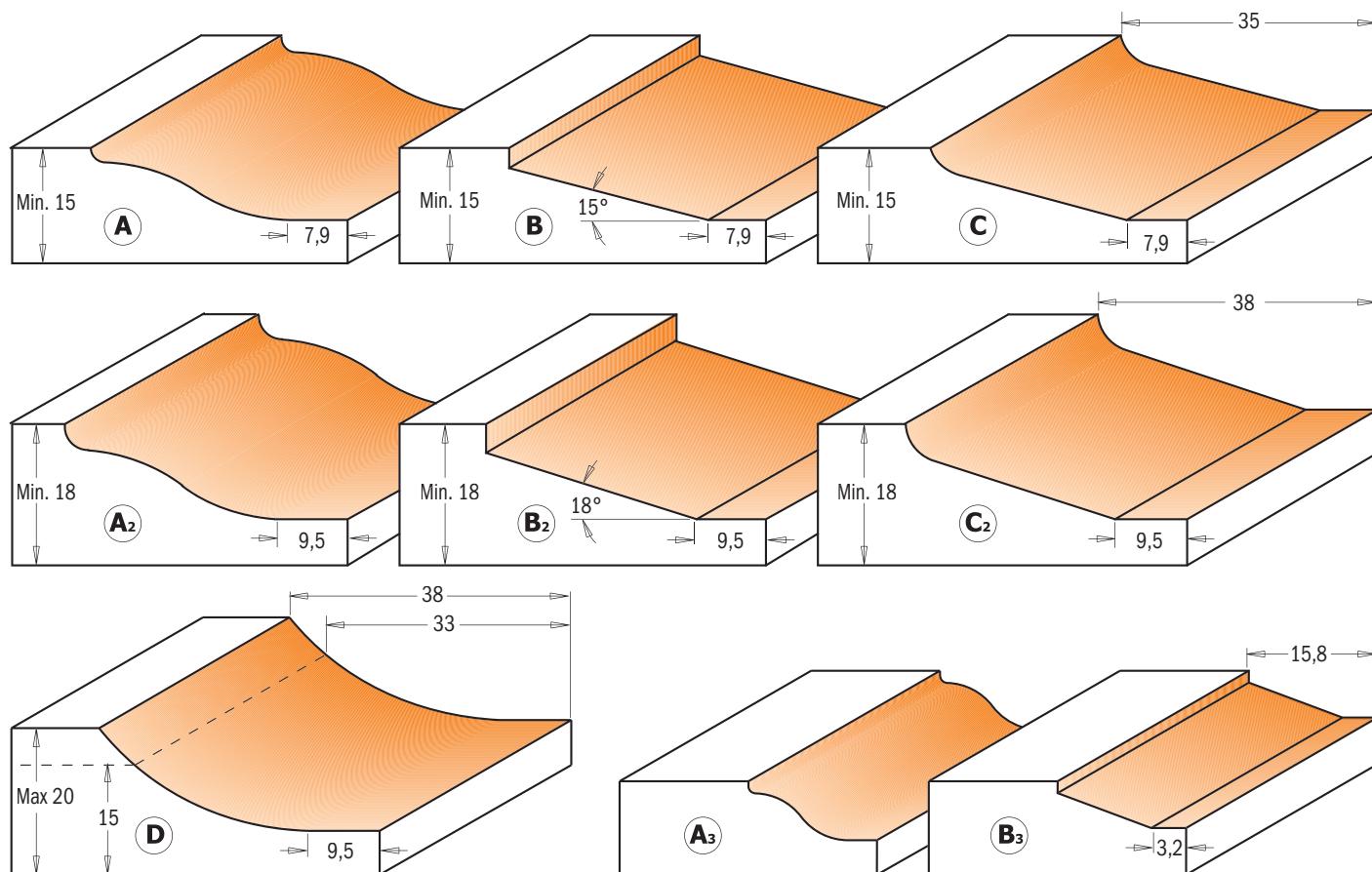
We offer you the traditional approach to panel construction with the CMT raised panel bit. Make classic raised panel doors as shown in the profiles below.

These raised panel bits have carbide-faced cutting edges and are equipped with our anti-kickback design and orange non-stick coating to further improve safety when working with larger diameter bits.

SAFETY TIPS: Horizontally employed bits should be used at a lower speed, 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 jigs with at least 1,7 KW (2-1/4 HP).



Drawings are 1:1 scale

PROFILE	D mm	I mm	L mm	T ₁ mm	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
A	82,5	15	63,8	15 ÷ 18	5	990.501.11	890.501.11		990.423.00 791.003.00 990.058.00 991.057.00
B	82,5	15	63,8	15 ÷ 18	5	990.502.11	890.502.11		990.423.00 791.003.00 990.058.00 991.057.00
C	82,5	15	64,6	15 ÷ 18	5	990.503.11	890.503.11		990.423.00 791.003.00 990.058.00 991.057.00
A ₂	89	15	64,6	18 ÷ 20	5	990.504.11	890.504.11		990.423.00 791.003.00 990.058.00 991.057.00
B ₂	89	15	64,6	18 ÷ 20	5	990.505.11	890.505.11		990.423.00 791.003.00 990.058.00 991.057.00
C ₂	89	15	64,6	18 ÷ 20	5	990.506.11	890.506.11		990.423.00 791.003.00 990.058.00 991.057.00
D	89	15	64,6	15 ÷ 20	5	990.507.11	890.507.11		990.423.00 791.003.00 990.058.00 991.057.00
A ₃	47,6	9,5	58,1	12,7 ÷ 15	10	990.011.11			990.423.00 791.003.00 990.058.00 991.057.00
B ₃	47,6	9,5	58,1	12,7 ÷ 15	10	990.012.11			990.423.00 791.003.00 990.058.00 991.057.00

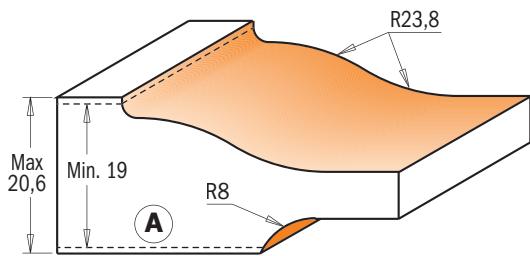
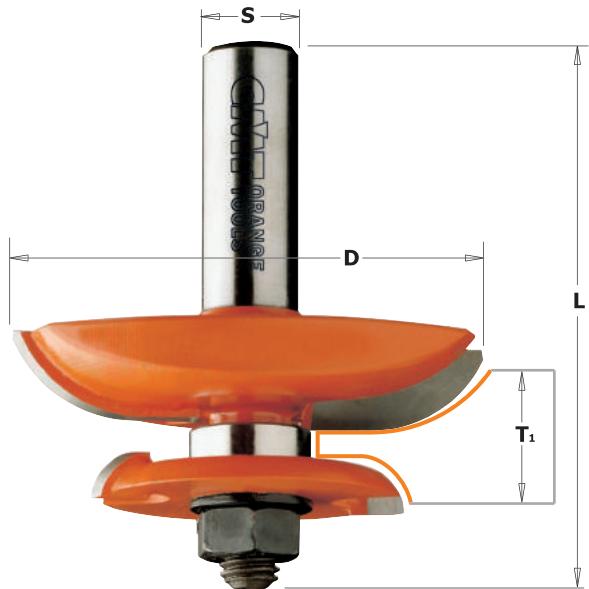
Raised Panel Bit with Back Cutter

CMT ORANGE TOOLS®

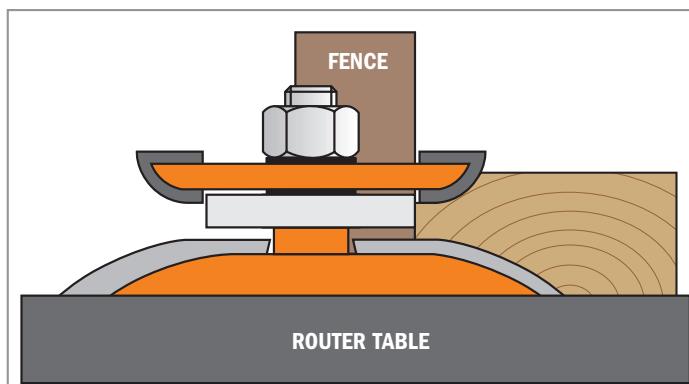
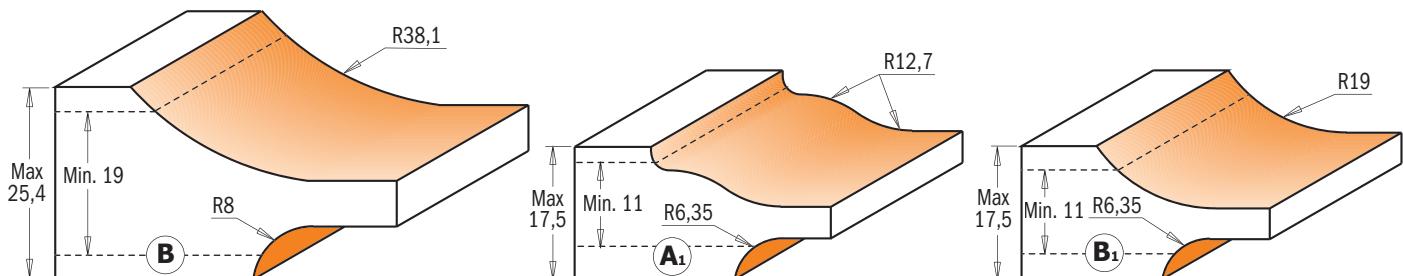


8/990.5

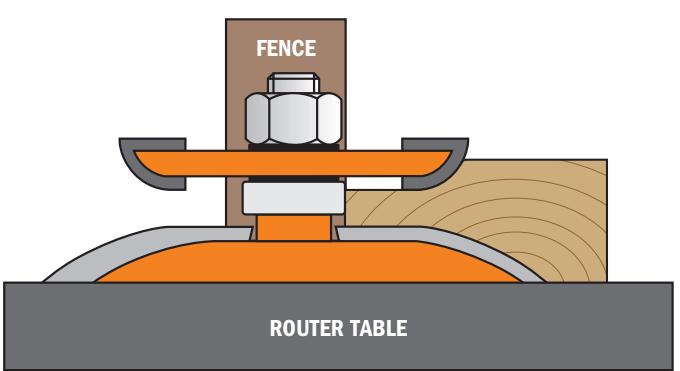
These bits have a back-cutter which allows the routing of both the front and back of the panel in the same cut. An additional 31.7mm diameter bearing ensures increased safety by allowing you to make two shallow passes (only for Ø89mm).



Drawings are 1:1 scale



First pass with Ø31,7mm bearing (for Ø89mm only)



Second pass with Ø16mm bearing

PROFILE	D mm	T ₁ mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
A	89	19 - 20,6	78,1	5	990.524.11	890.524.11	822.007.11 791.025.00 791.033.00 990.020.00
B	89	19 - 25,4	78,1	5	990.527.11	890.527.11	822.007.11 791.025.00 791.033.00 990.020.00
A ₁	63,5	11,1 - 17,5	70	5	990.534.11	890.534.11	822.010.11 791.025.00 990.020.00
B ₁	63,5	11,1 - 17,5	70	5	990.537.11	890.537.11	822.010.11 791.025.00 990.020.00

Spare parts 541.515.00 0,1mm spacer
541.516.00 0,3mm spacer

541.518.00 1,0mm spacer
990.407.00 Shield conical

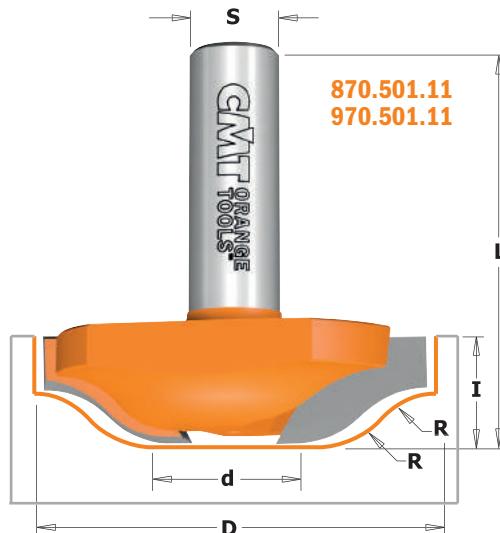


8/970

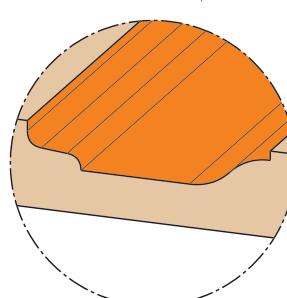
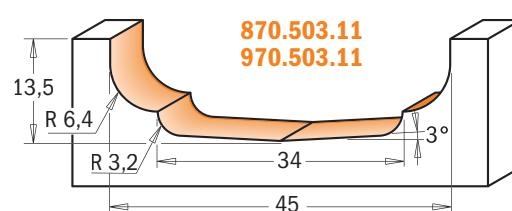
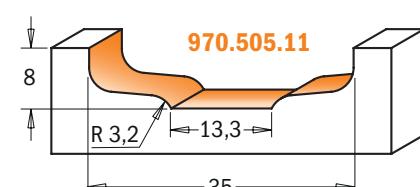
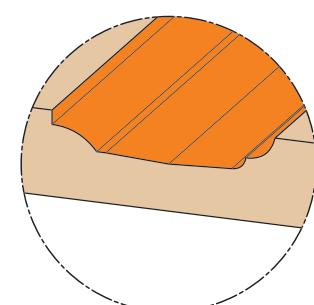
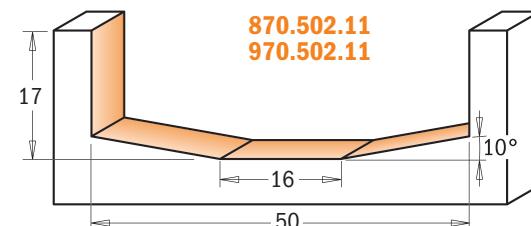
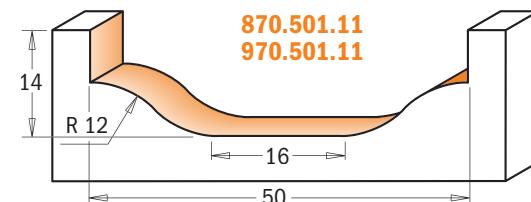
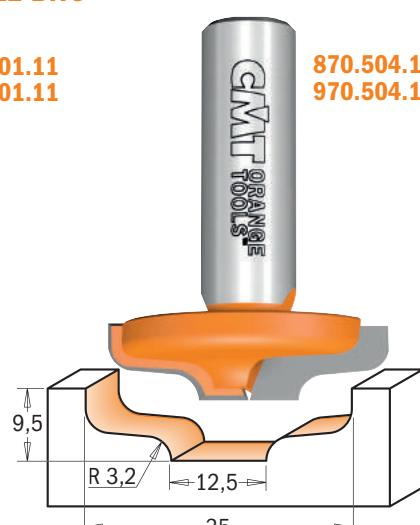
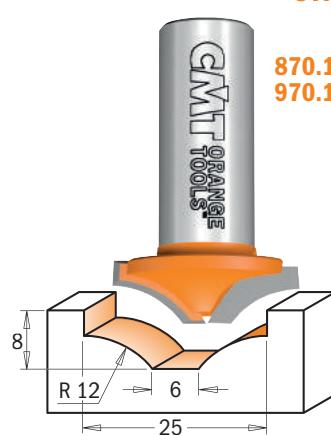
These bits can be used for decorative work on solid wood panels and MDF materials. Use them in one pass or in combination with CMT's MDF panel bits for complex and intricate profiles. A simple approach for an elegant appearance.

Featuring large cutting diameters and available in the most popular profiles, these panel bits guarantee excellent performance.

PANEL BITS



STILE BITS



D mm	d mm	I mm	R mm	A	L mm	Pack Qty.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
25	6	8	12		39,8	10	970.101.11		870.101.11
50	16	14	12		52,1	10		970.501.11	870.501.11
50	16	17		10°	55,1	10		970.502.11	870.502.11
45	34	13,5	3,2 - 6,4	3°	51,6	10		970.503.11	870.503.11
35	12,5	9,5	3,2		47,6	10		970.504.11	870.504.11
35	13,3	8	3,2		46	10		970.505.11	

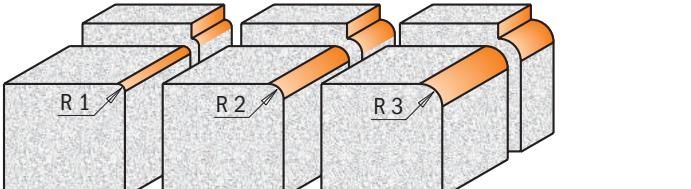
Solid Surface Rounding Over Bits

CMT ORANGE TOOLS®



7/8/938 - 8/980.5

Use these bits to create a traditional roundover edge on solid surface countertops. Equipped with a non-marring Delrin® bearing to protect the finished edges. For use on hand-held portable routers.



Drawings are 1:1 scale



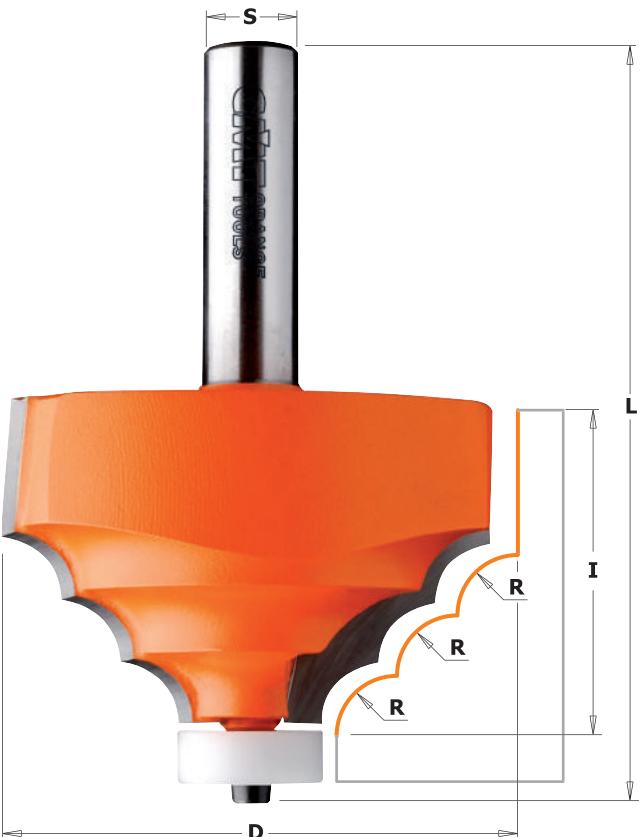
APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

R mm	D mm	I mm	L mm	Pack QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
1	14,7	10	51	10	838.147.11	938.147.11			990.422.00	791.044.00 990.058.00
2	16,7	12,7	52,5	10	738.167.11		938.167.11		990.422.00	791.044.00 990.058.00
3	18,7	12,7	54	10	738.187.11		938.187.11		990.422.00	791.044.00 990.058.00
3,2	19,05	12,7	59,5	10				980.501.11	880.501.11	990.422.00 791.044.00 990.058.00
6,35	25,4	12,7	59,5	10				980.502.11	880.502.11	990.422.00 791.044.00 990.058.00
8	28,7	15	62,5	10				980.505.11	880.505.11	990.422.00 791.044.00 990.058.00
9,5	31,75	14	61	10				980.503.11	880.503.11	990.422.00 791.044.00 990.058.00
12,7	38,1	19,05	66	10				980.504.11	880.504.11	990.422.00 791.044.00 990.058.00

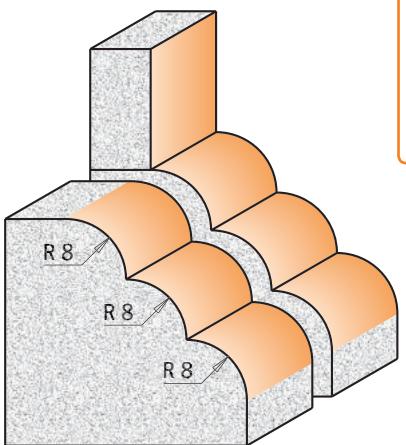
Spare parts 991.057.00 3/32" hex key

Solid Surface Decorative Edge Profile Bits



8/980.521

Create elegant countertops with flawless results. Features a non-marring Delrin® bearing to protect the finished edges. For use on hand-held portable routers.



Drawings are 1:1 scale

APPLICATION

Wilsonart®
Gibraltar®
Corian®
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Fountainhead®
Avonite®
Formica®
Etc.

D mm	I mm	R mm	L mm	Pack QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
66,7	41,3	8	89,8	5	980.521.11	880.521.11	791.046.00 990.058.00 991.057.00

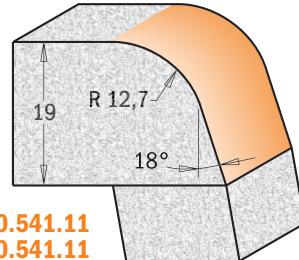
Solid Surface Rounding Over Bowl Bits



**8/966.601/602
8/980.541**

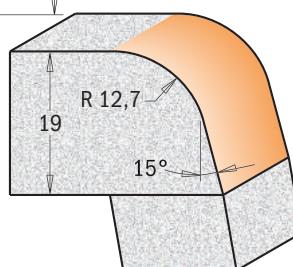
These bits are the best tool for rounding over and trimming countertop edges after the bowl is mounted. Can be used together with the CMT 880.551.11 bevel cutter for a flush cut-out between the countertop and the installed undermount bowl. For use on hand-held routers. Features a non-marring Delrin® bearing to protect the finished edges.

The special angled Delrin® sleeve on the bearing of the CMT bevel cutter lets you work without leaving marks on the workpiece. Trims and shapes all wood and wood materials. Perfect for kitchen and bathroom counter-top work.

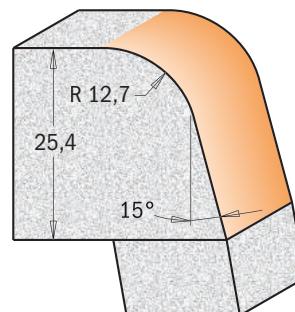


**880.541.11
980.541.11**

Drawings are 1:1 scale



**966.601.11
866.601.11**

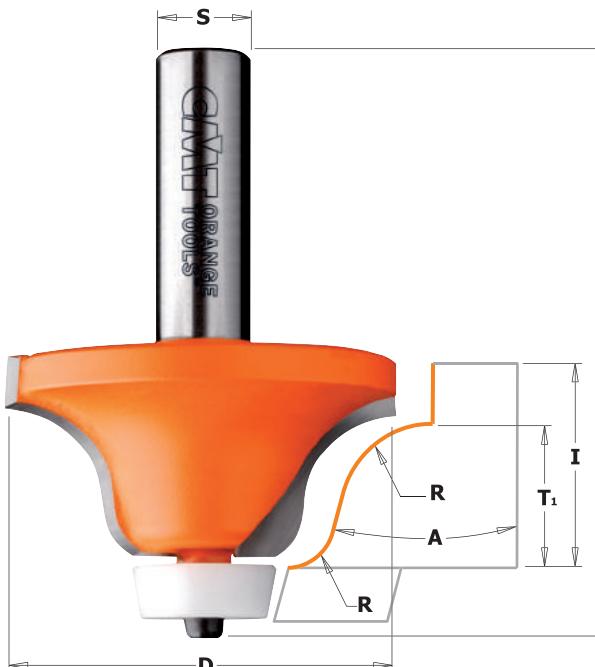


**966.602.11
866.602.11**

APPLICATION
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Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

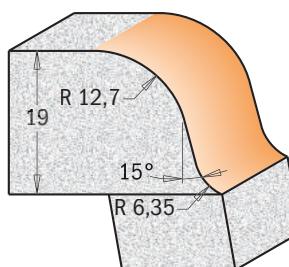
A	D mm	T ₁ mm	I mm	R mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
15°	50,8	19	25,4	12,7	74,9	10	966.601.11	866.601.11	
15°	50,8	25,4	31,75	12,7	81,3	10	966.602.11	866.602.11	
18°	54	19	25,4	12,7	78,1	10	980.541.11	880.541.11	

Solid Surface Rounding Over Bowl Bit (ogee profile)



8/980.542

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.



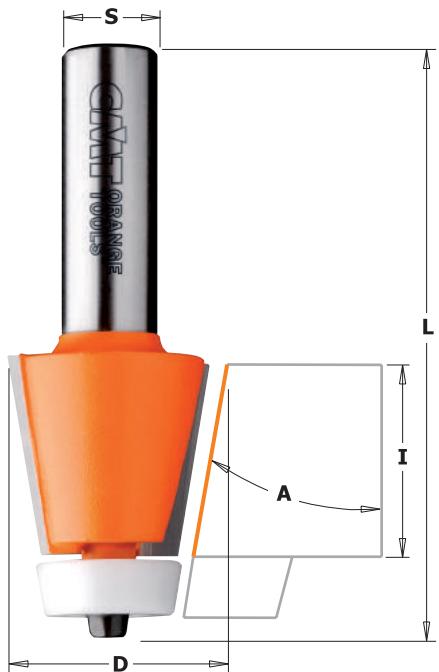
Drawing is 1:1 scale

APPLICATION
Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

A	D mm	T ₁ mm	I mm	R mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
15°	54	19	25,4	6,35-12,7	77,6	10	980.542.11	880.542.11	

Solid Surface Bevel Bowl Bits

CMT ORANGE TOOLS®

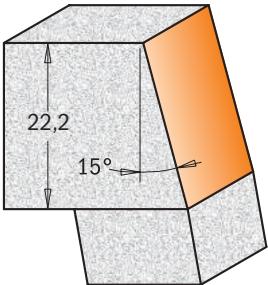


8/966.501 - 8/980.551

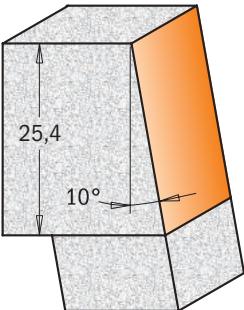


These bits are designed for undermount applications joining the countertops and sink bowls with a 10° beveled edge. Can be used with the 880.541.11 and 880.542.11 for complete undermount applications. For use on hand-held routers. Features a non-marring Delrin® bearing to protect the finished edges.

Special angled Delrin® sleeve on the bearing of the CMT bevel cutter lets you work without leaving marks on the workpiece. Trims and shapes all wood and wood materials. Perfect for kitchen and bathroom counter top work.



**866.501.11
966.501.11**



**880.551.11
980.551.11**

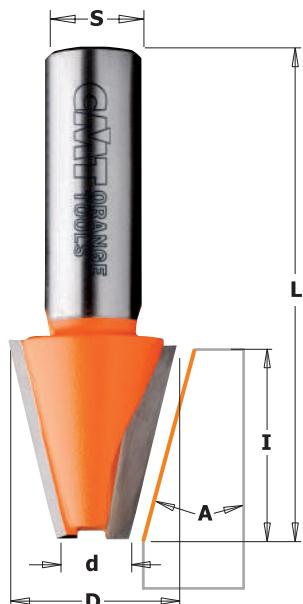
APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

Drawings are 1:1 scale

A	D mm	I mm	L mm		Pack Qty.	Order No. S=Ø12mm	Order No. S=Ø12,7mm	Spare parts
15°	31,7	22,2	72		10	966.501.11	866.501.11	791.041.00 990.058.00 991.057.00
10°	28,5	25,4	77		10	980.551.11	880.551.11	791.041.00 990.058.00 991.057.00

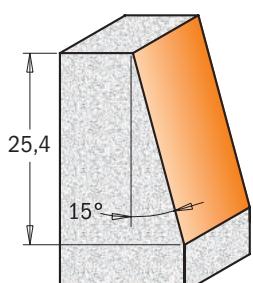
Solid Surface Bevel Bit



8/981.521



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 routers.



Drawings are 1:1 scale

APPLICATION
Wilsonart®
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Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

D mm	d mm	I mm	A	L mm		Pack Qty.	Order No. S=Ø12mm	Order No. S=Ø12,7mm
23	9,52	25,4	15°	63,5		10	981.521.11	881.521.11

Solid Surface Cut & Plug Repair Set

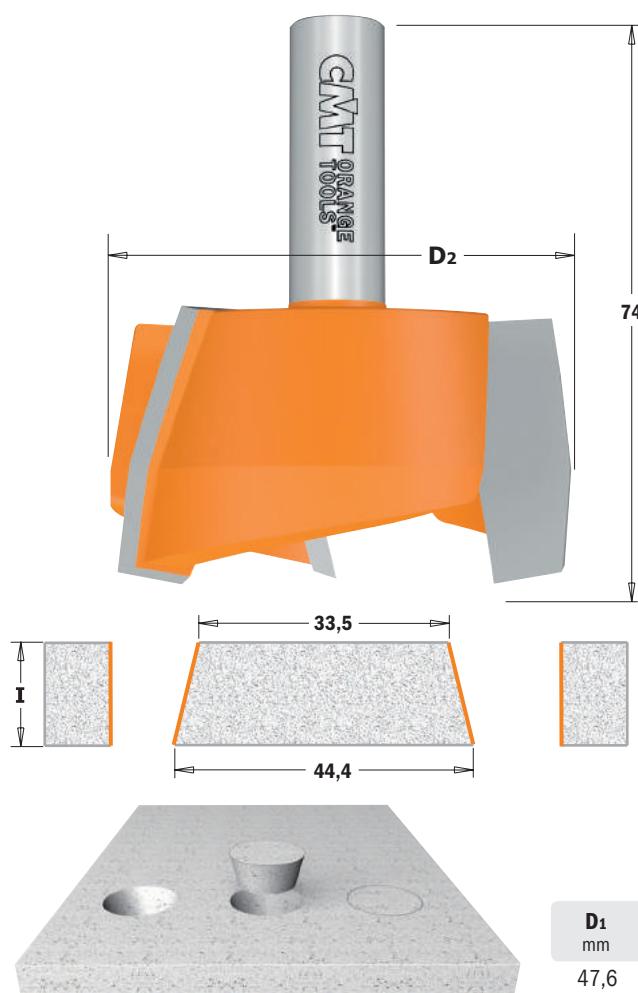
new

CMT ORANGE TOOLS®

HW α Z2 Z3 RH

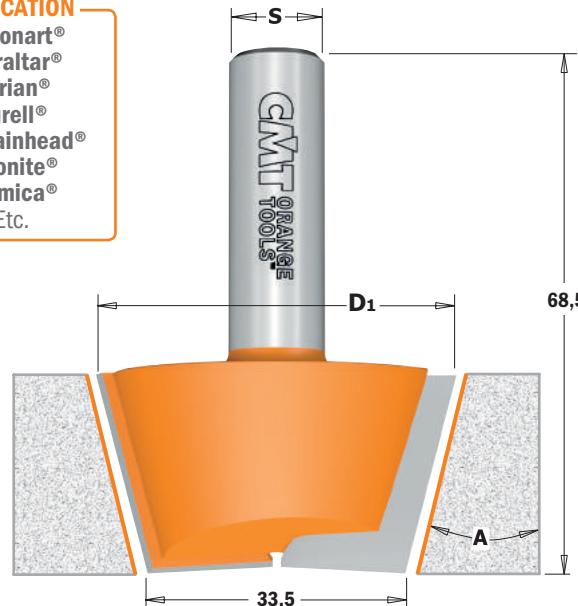
9/881.541

These special carbide-tipped bits work best on solid surfaces or when repairing damaged surfaces. To repair, create the plug with the plug-cutter first, then use the other bit to easily make the hole. Your surfaces will look like new again! For use with hand-held routers or CNC machines.



APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.



D ₁ mm	D ₂ mm	I mm	A	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
47,6	63,5	20	15°	68,5-74	5	981.541.11	881.541.11

4-Wing Cut Out Slot Cutters for Solid Surfaces

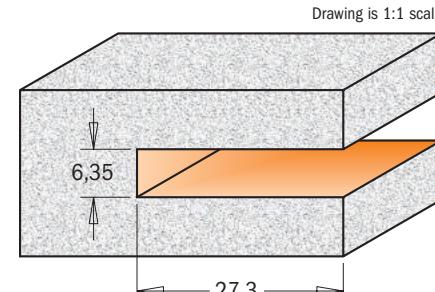
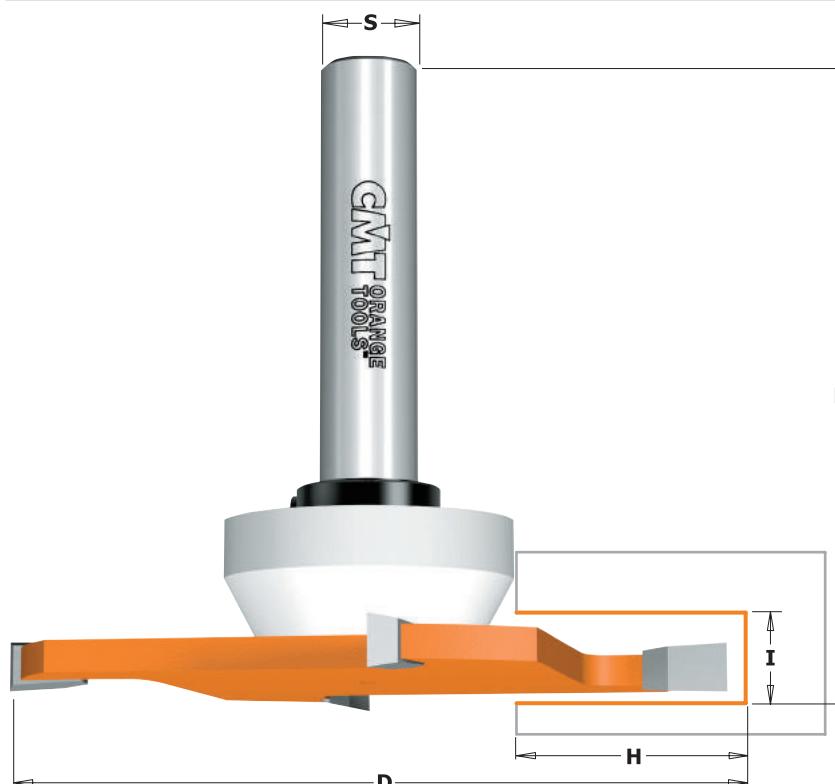
8/922.033B

HW Z4 RH

This bit features two tungsten carbide-tipped cutting edges for carving out solid surface undermount bowls. For use on hand-held routers. Bit also equipped with a non-marring Delrin® bearing to protect your surfaces.

APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.



D mm	I mm	H mm	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
92	6,35	27,3	82,5	5	922.033.11B	822.033.11B	541.553.00 791.047.00 541.002.00 991.056.00

Solid Surface No-Drip Bit

CMT ORANGE TOOLS®

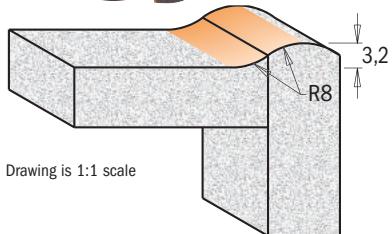


8/981.501

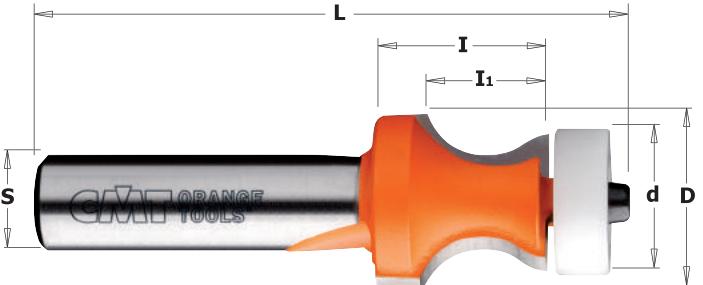
This bit is designed to create "no-drip" edges on kitchen and vanity countertops. Designed for hand-held portable routers on applications where a guide bearing cannot be used. This one bit will cut both the outer and inner profiles creating a slightly raised edge, controlling spilled liquids.

APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

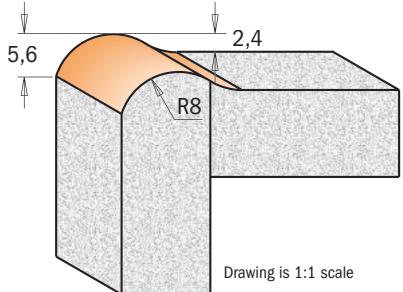


Drawing is 1:1 scale



8/980.531

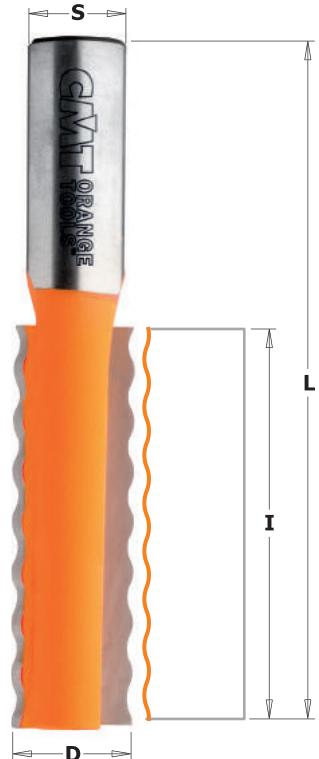
This bit is designed to create "no-drip" edges on kitchen and vanity countertops in a single pass. For use on hand-held routers. Creates a slightly raised edge for controlling spilled liquids. Features a non-marring Delrin® bearing to protect your surfaces.



Drawing is 1:1 scale

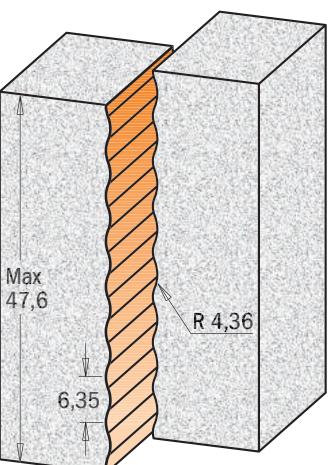
D mm	d mm	I mm	l ₁ mm	R mm	L mm	Pack Qty.	Order No. S=Ø12mm	Order No. S=Ø12,7mm	Spare parts
25,4		12,7	3,2	8	63,5	10	981.501.11	881.501.11	
25,4	19	22,2	15,87	8	77	10	980.531.11	880.531.11	791.046.00 990.058.00 991.057.00

Solid Surface Wavy Joint Bit



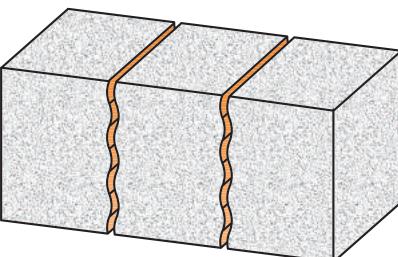
8/981.531

These bits are ideal for making strong joints on any solid surface, thanks to a wider surface area for glue application.



Drawings are 1:1 scale

APPLICATION
Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.



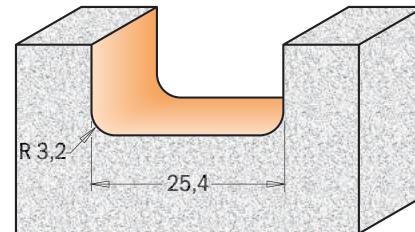
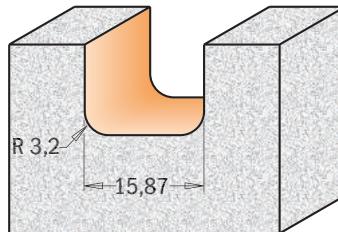
D mm	I mm	R mm	L mm	Pack Qty.	Order No. S=Ø12mm	Order No. S=Ø12,7mm
15,87	51,5	4,36	89	10	981.531.11	881.531.11

Solid Surface Drainboard Bits



8/981.511-512

This bit is ideal for creating custom drainboard patterns in solid surface countertops.
For use on hand-held portable routers.



Drawings are 1:1 scale



APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

D mm	I mm	R mm	L mm	Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
15,87	12,7	3,2	63,5	10	981.511.11	881.511.11
25,4	12,7	3,2	69,8	10	981.512.11	881.512.11

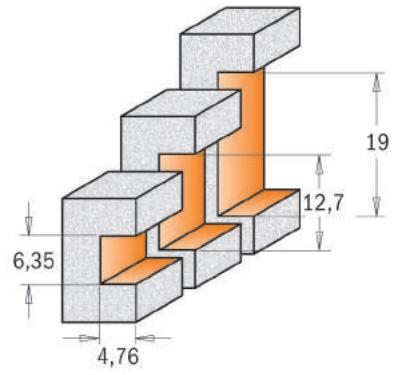
Solid Surface - Inlay Bits



8/980.511-512-513

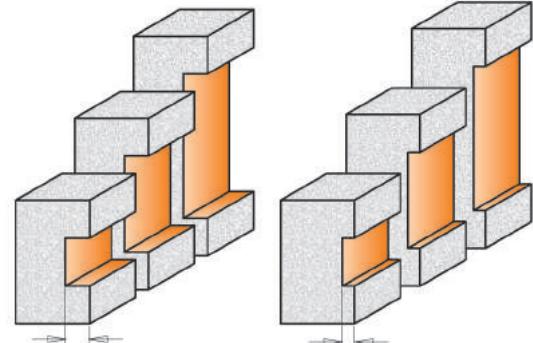
Add a decorative wood, plastic or metal inlay to solid surface countertops.
Equipped with a non-marring Delrin® bearing to protect the finished edges.
For use on hand-held portable routers.

Standard



Drawings are 1:1 scale

Optional



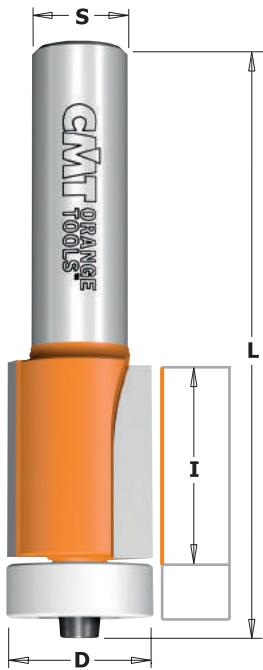
optional with
bearing 791.045.00

optional with
bearing 791.046.00

Spare parts

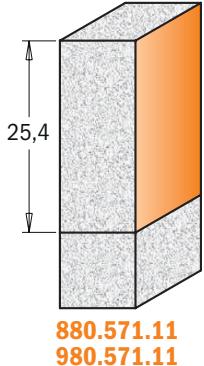
	791.044.00	990.058.00	991.057.00
	791.044.00	990.058.00	991.057.00
	791.044.00	990.058.00	991.057.00

D mm	I mm	H mm	L mm	Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
22,2	6,35	4,76	77	10	980.511.11	880.511.11	791.044.00 990.058.00 991.057.00
22,2	12,7	4,76	90	10	980.512.11	880.512.11	791.044.00 990.058.00 991.057.00
22,2	19,05	4,76	90	10	980.513.11	880.513.11	791.044.00 990.058.00 991.057.00



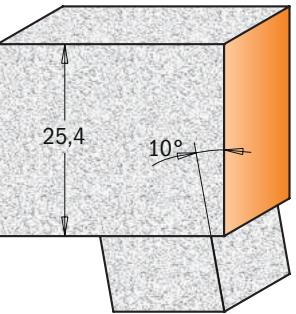
8/980.57

Trim a sink cut-out flush with the bowl in stages using these "over-hang" and flush trim bits. The Delrin® bearings are tapered to match the slope of the bowl's side. A first pass with the over-hang bit cleans the cut-out edge, leaving a slight over-hang on the underside of the counter. A second pass with the flush-trim bit completes the operation. Made from super micrograin carbide for guaranteed longer life!



Drawings are 1:1 scale

**880.572.11
980.572.11**

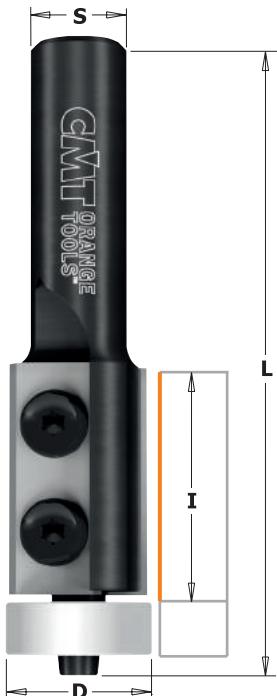


APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

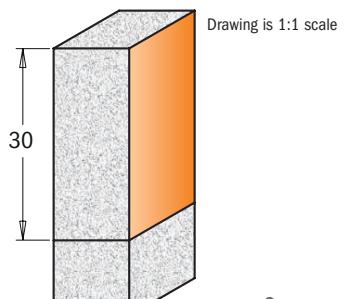
D mm	I mm	A	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
19,05	25,4		78	10	980.571.11	880.571.11	791.046.00 990.058.00 991.057.00
22	25,4	10°	78	10	980.572.11	880.572.11	791.048.00 990.058.00 991.057.00

Solid Surface Sink & Trim Bits with Insert Knives



8/980.56

Trim a sink cut-out flush with the bowl in stages using these "over-hang" and flush trim bits. The Delrin® bearings are tapered to match the slope of the bowl's side. A first pass with the over-hang bit cleans the cut-out edge, leaving a slight over-hang on the underside of the counter. A second pass with the flush-trim bit completes the operation. Made from super micrograin carbide for guaranteed longer life!



Drawing is 1:1 scale

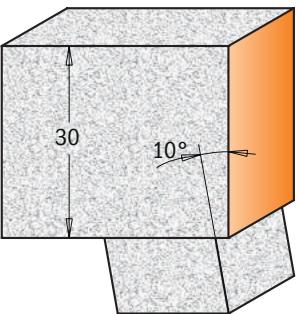
CORRECT KNIFE POSITIONING

Press the knife against the seat and then tighten the screws.
SEAT

APPLICATION

Wilsonart®
Gibraltar®
Corian®
Surell®
Fountainhead®
Avonite®
Formica®
Etc.

**880.562.11
980.562.11**



D mm	I mm	A	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
19,05	30		83	10	980.561.11	880.561.11	790.300.03 990.075.00 991.061.00 791.046.00 990.058.00 991.057.00
22	30	10°	83	10	980.562.11	880.562.11	790.300.03 990.075.00 991.061.00 791.048.00 990.058.00 991.057.00

Router Bit Sets

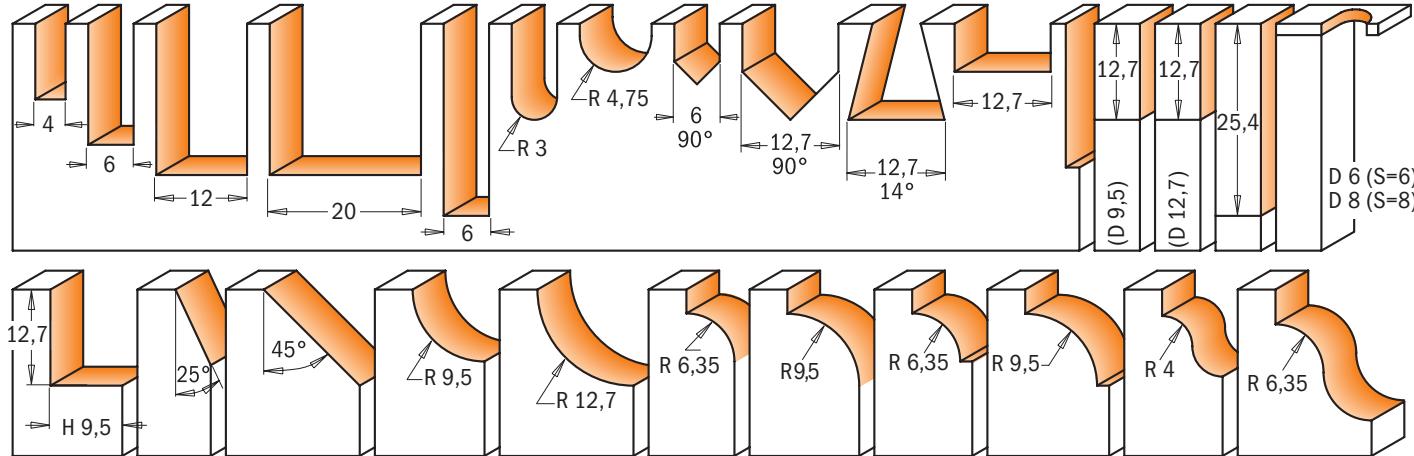
CMT ORANGE TOOLS®

US PATENT NO. 7,703,605 AND OTHER FOREIGN PATENTS

7/900.003



Find a whole workshop in this practical 26-piece router bit set! Offers a wide selection of the most popular tools including straight bits, flush trim bits, dovetail bits, cove bits, ogee bits and so much more. An endless selection of tools to express your woodworking creativity! Ideal for the master craftsman! Available in 6mm to 8mm shank diameters. See chart below for details.



Drawings are 1:1 scale

DESCRIPTION

PACK QTY.

ORDER NO.
S=Ø6mm

ORDER NO.
S=Ø8mm

26-Piece Router Bit Sets

1 700.003.00

900.003.00

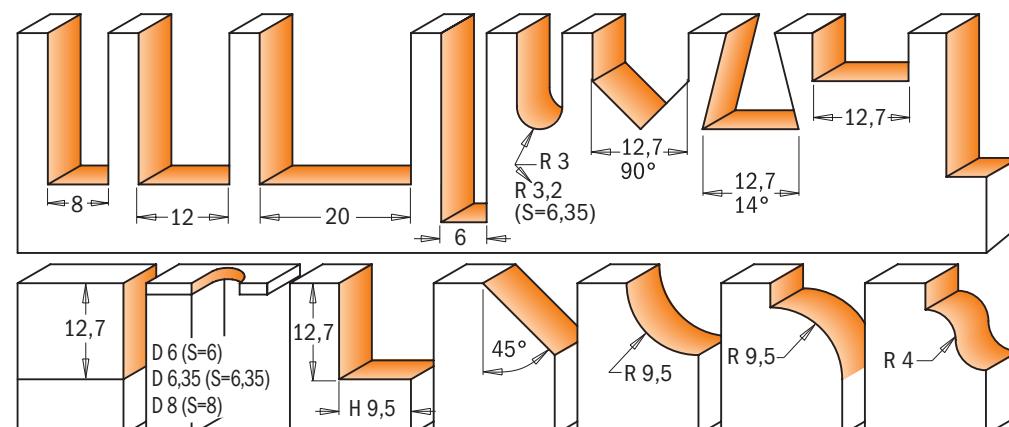
15-Piece Router Bit Sets

US PATENT NO. 7,703,605 AND OTHER FOREIGN PATENTS

7/8/900.001



CMT's router bit set is the perfect companion for the professional craftsman. This set offers a selection of organized and ready-to-use straight and profile bits. Added value for any woodworker! Each bit is made with Fatigue Proof® steel, micrograin carbide and is coated with orange non-stick PTFE. Comes with a hardwood snap-lock case for safe storage!



Drawings are 1:1 scale

DESCRIPTION

PACK QTY.

ORDER NO.
S=Ø6mm

ORDER NO.
S=Ø8mm

15-Piece Router Bit Sets

1 700.001.00

800.001.00

900.001.00

8-Piece Dovetail & Straight Bit Sets

CMT ORANGE TOOLS®

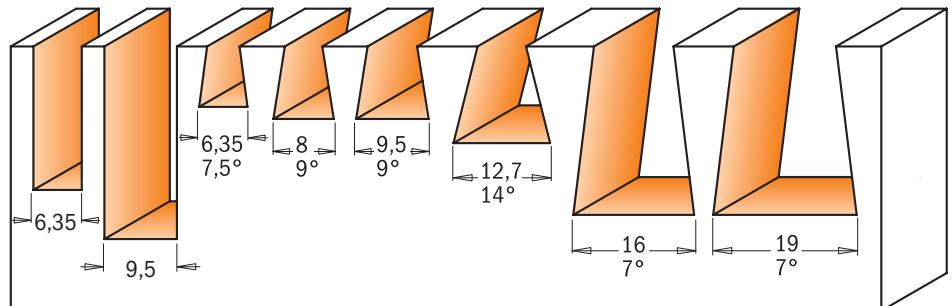
US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS



800.500/501

Perfect for the craftsman with a creative flair, these sets contain the most frequently used bits for boxes, creative joinery and a wide range of other projects. Safely packaged in a hardwood box to have the bits within reach. The bits are compatible with the most popular jigs on the market such as Incra® and JoinTECH®.

HWM HW α Z2 RH



Drawings are 1:1 scale

DESCRIPTION

PACK QTY.

ORDER NO.
S=Ø6,35mm

ORDER NO.
S=Ø12,7mm

8-Piece Dovetail & Straight Bit Sets

1

800.500.11

800.501.11

13-Piece Dovetail & Straight Bit Sets

US PATENT NO. 7,703,605 AND OTHER FOREIGN PATENTS

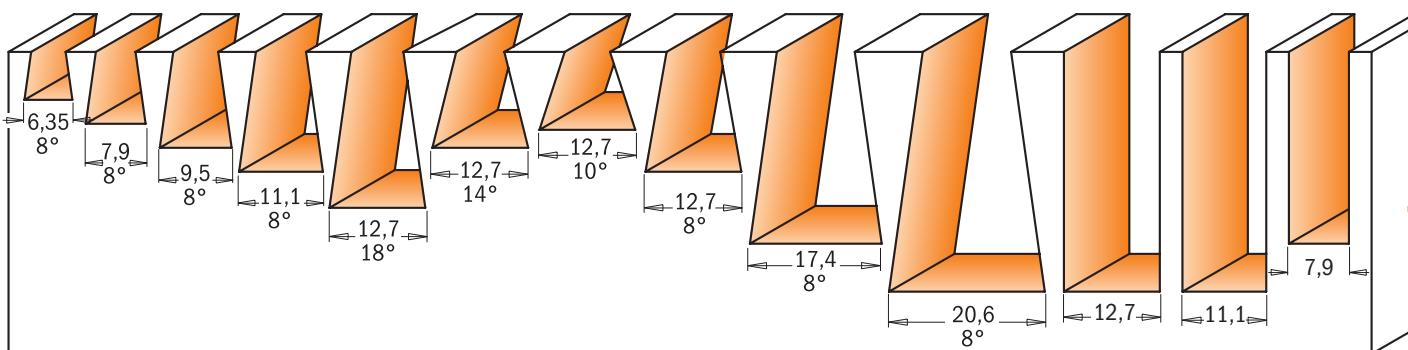


800.519

Perfect for the craftsman with a creative flair, this set contains the most frequently used and popular bits for making boxes, creative joinery as well as a wide range of other projects. Packaged in a hardwood box for easy organization and safe storage. Your bits are always within reach! Compatible with the most popular jigs on the market such as Leigh D4®.

HWM HW α Z2 RH

Drawings are 1:1 scale



DESCRIPTION

PACK QTY.

ORDER NO.
S=Ø6,35-12,7mm

13-Piece Dovetail & Straight Bit Sets

1

800.519.11

12-Piece Router Bit Set with Wooden Case

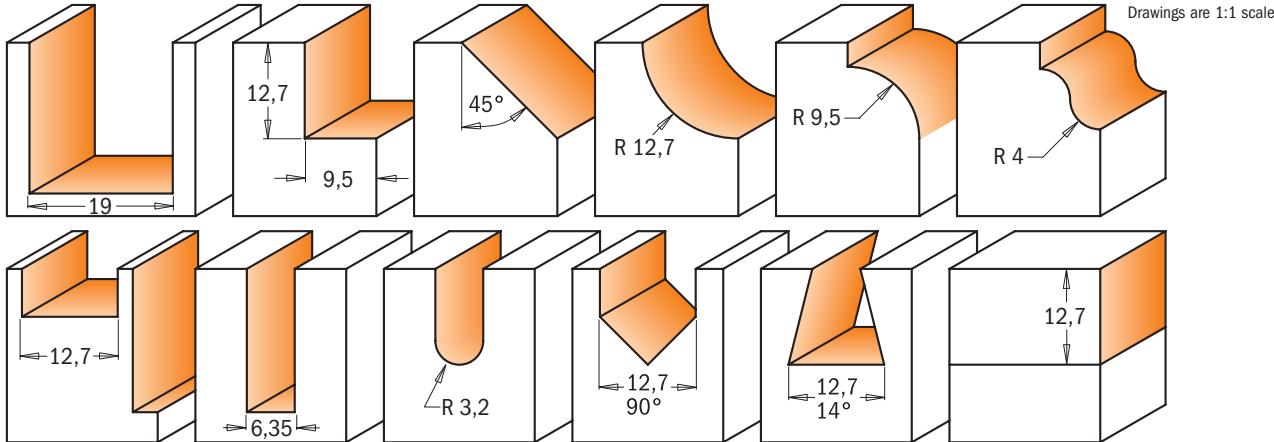
CMT ORANGE TOOLS®

US PATENT NO. 7,703,605 AND OTHER FOREIGN PATENTS



800.503

CMT's 12 most frequently used 6.35mm shank router bits assembled in a compact and attractive hardwood case for your convenience! The bits are made with the finest steel and carbide and feature our trademark orange PTFE coating. The perfect case for any professional woodworker!



DESCRIPTION

PACK QTY.

ORDER NO.
S=Ø6,35mm

12-Piece Router Bit Set with Wooden Case

1

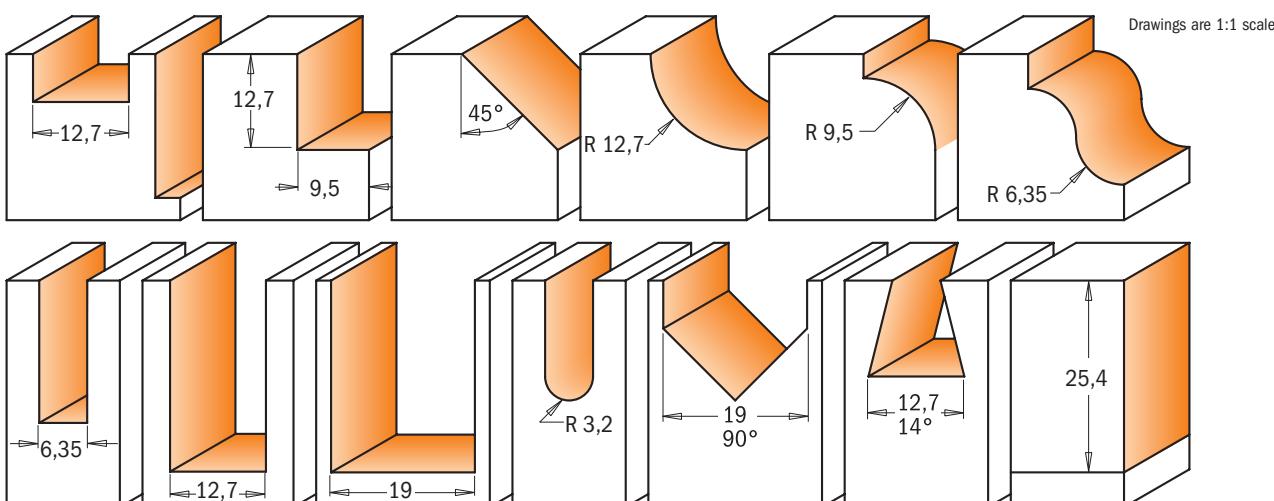
800.503.11

13-Piece Router Bit Set with Wooden Case



800.505

CMT's 13 most frequently used 12.7mm shank router bits assembled in a compact and attractive hardwood case for your convenience! The bits are made with the finest steel and carbide and feature our trademark orange PTFE coating. The perfect case for any professional woodworker!



DESCRIPTION

PACK QTY.

ORDER NO.
S=Ø12,7mm

13-Piece Router Bit Set with Wooden Case

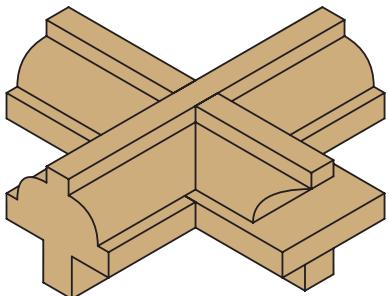
1

800.505.11

Divided Light Door Sets

CMT ORANGE TOOLS®

US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS

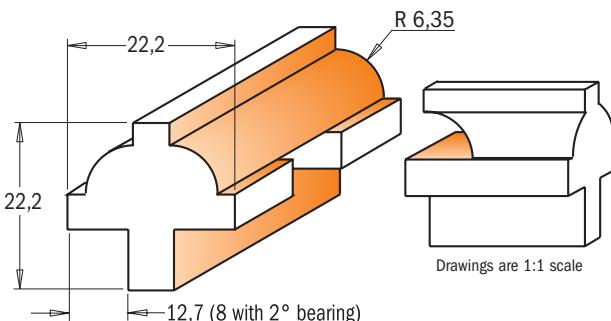


800.525 - 900.025

HW **Z2** **RH**

Build authentic divided light doors for fine furniture and cabinets with these 3-piece sets. They include a stuck bit to cut the decorative ovolu profile on the frame edges, a cope to shape the mating profile on the ends of the stock, and a rabbeting bit to cut the recess for the glass. Thanks to the guide bearings, you can also create arches on 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. These sets are designed for 22,2mm wide bars such as those on corner cupboard doors. Available in 8mm and 12,7mm shanks. Instructions included.



DESCRIPTION	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
Divided Light Door Sets	1	900.025.11	800.525.11

Glass Panel Sets

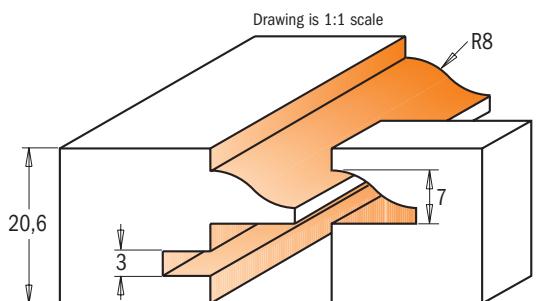
US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS



8/955.803

HW **Z2** **Z3** **RH**

CMT's unique stile and rail router bit sets allow you to produce glass panel doors by using a rubber panel retainer to secure the glass in a 3,2mm slot cut into the frames. These bits work the same as other CMT stile and rail sets, but they leave you with a square rabbet on the inside of your door for installing the glass panel. Available in 12mm and 12,7mm shanks.



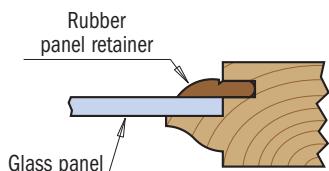
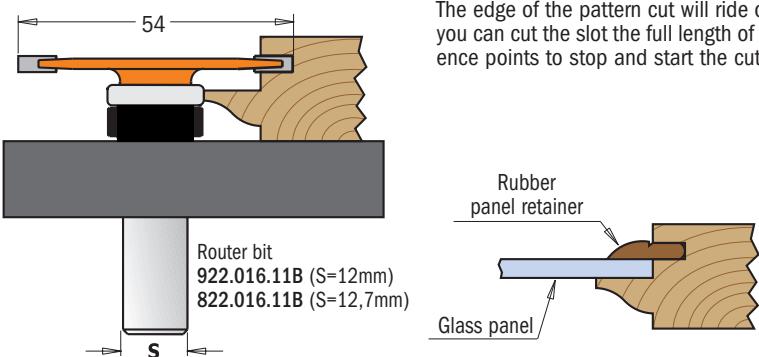
DESCRIPTION	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
Glass Panel Sets	1	955.803.11	855.803.11

Optional GLAS/RTBRN Glass panel retainers 762cm.

GLASS PANEL RETAINERS

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.



GLAS/RTBRN

Our unique retainer strips fit perfectly in the slots created by the slot cutter bit and hold your glass securely in the frame. Sold in 762cm. lengths.

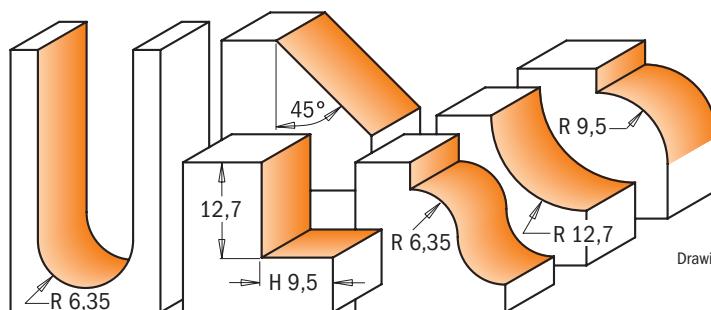
6-Piece Profile Bit Set with Wooden Case

CMT ORANGE TOOLS®

US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS



800.504



Containing 6 of CMT's most frequently used 12,7mm shank router bits, this compact Italian hardwood case is beautiful and convenient for your woodworking needs. All the bits contained feature the finest steel and carbide, plus CMT's baked-on orange PTFE non-stick coating.

DESCRIPTION	PACK QTY.	ORDER NO.
6-Piece Profile Bit Set with Wooden Case	1	S=Ø12,7mm 800.504.11

Entry & Interior Door Router Bit Set

US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS

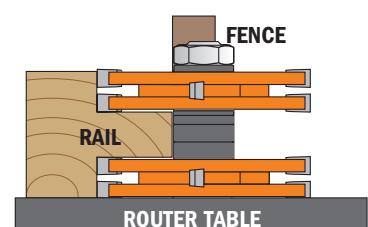


8/900.527

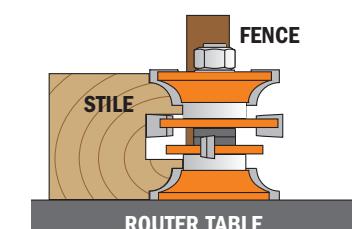
This CMT three-piece router bit set simplifies door construction, making it easy as 1-2-3! In fact this is a multifunctional set for door and furniture makers, building entry or passage doors and any furniture tenons. The tenon cutter included in the set, produces a beefy 27mm long tenon. Along with the cope cutter, this means you can craft long and strong tenons with minimum setup. As an extra bonus, the tenon cutter can be used for making furniture requiring tenons anywhere from 4.7mm to 16mm in thickness.



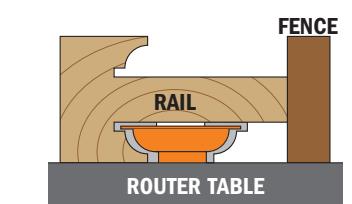
**Entry & interior door construction
Easy as 1, 2, 3!**



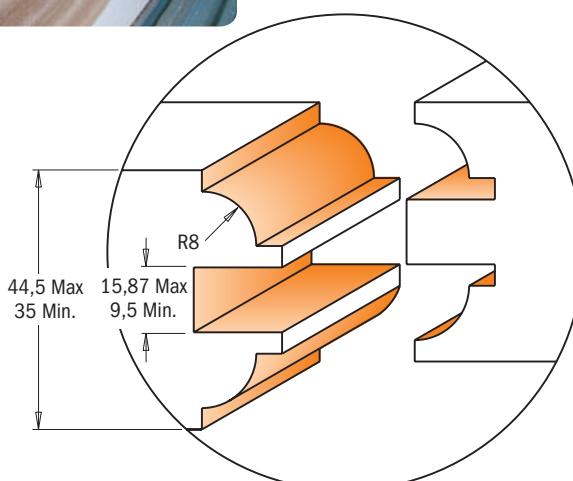
Step 1. Cut the tenon into the rails



Step 2. Cut the groove and door profile in pieces.



Step 3. Undercut the tenons to cope the ends of the rails.



DESCRIPTION	PACK QTY.	ORDER NO.
3-Piece Entry & Interior Door Router Bit Set	1	S=Ø12mm 900.527.11

ORDER NO.	ORDER NO.
S=Ø12mm 900.527.11	S=Ø12,7mm 800.527.11

2-Piece Entry Door Router Bit Set

CMT ORANGE TOOLS®



8/955.806

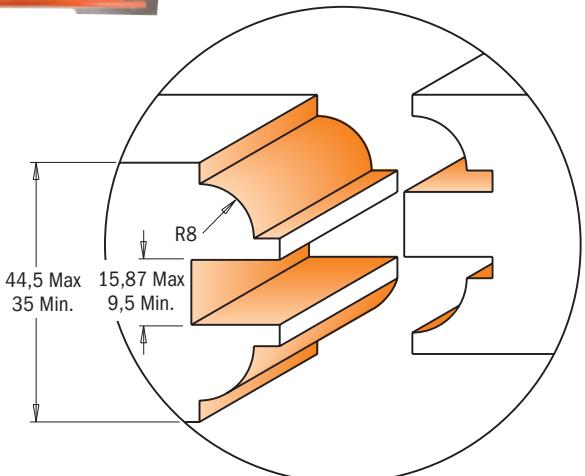
These bits allow you to create tongue-and-groove joints and produce entry and passage doors with minimal effort. The bit on the left, when used in pair with the bit 800.628.11, is great for producing long and beefy tenons, whereas the other tool makes the decorative profile.

HW

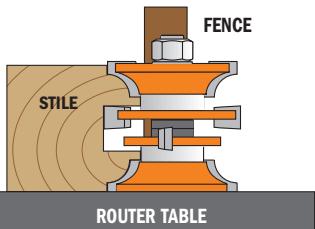
α

Z2

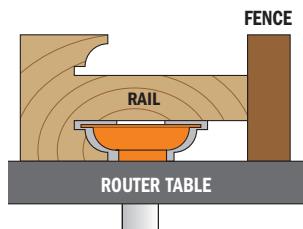
RH



Entry & Interior Door Construction



APPLICATION 1: cut the groove and the door profile in all pieces.



APPLICATION 2: undercut the tenon to cope the ends of the rails.

D mm	I mm	Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts	8-22mm	up	down	822.021.11A	822.021.11B	822.022.11	541.515.00	541.516.00	541.500.00	990.020.00	
44,5-48	35-44,5	5	955.806.11	855.806.11	791.005.00											

Tenon Cutting Router Bits



8/900.628

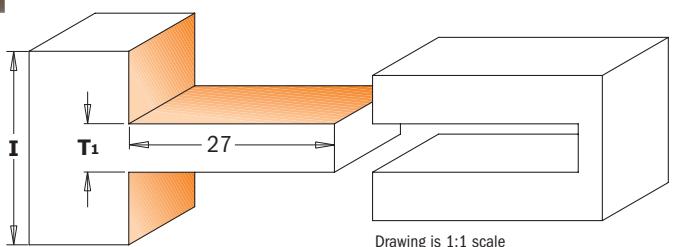


8/900.627

HW Z2 RH



If you've struggled with adjusting tenons, we've got the perfect solution for you! CMT's tenon cutting router bit will produce the most perfect fitting tenons in every board you cut, even if the boards vary in thickness. Simply set the distance between the cutters using the included spacers, and you can easily cut tenons from 4,76mm (3/16") to 9,5mm (3/8") thick, up to 27mm (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.



Maximum speed
MAX RPM 12.000

8-900.627

T ₁	Spacers (mm)		
	6,35mm	3,2mm	1,6mm
4,76mm	1	0	0
6,35mm	1	0	1
8mm	1	1	0
9,5mm	1	1	1

D mm	I mm	T ₁ mm	Pack Qty.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
75	34,9	4,76-9,5	5	900.627.11	924.134.00
75	34,9	4,76-9,5	5		822.020.11
75	44,5	9,5-15,8	5	900.628.11	541.513.00
75	44,5	9,5-15,8	5		541.520.00

Spare parts

8-22mm	up	down	0,1mm	0,3mm	1,6mm	3,2mm	6,2mm	
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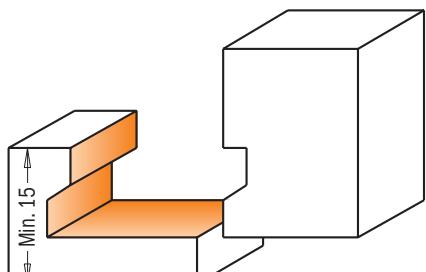
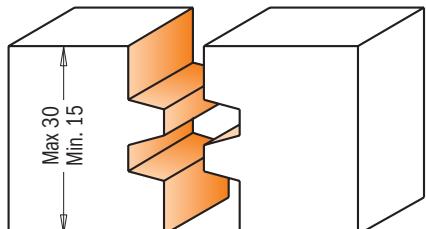
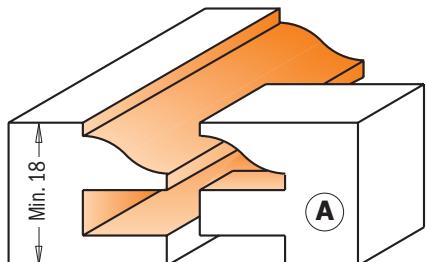
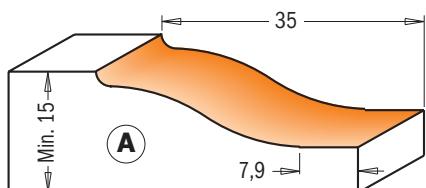
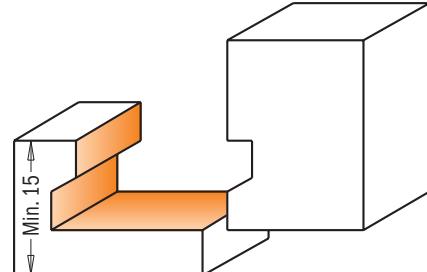
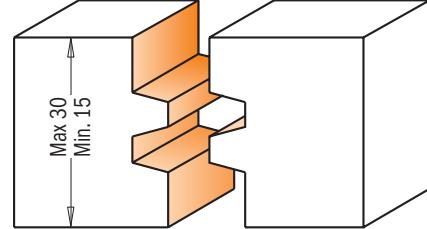
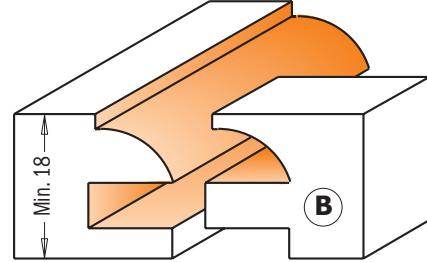
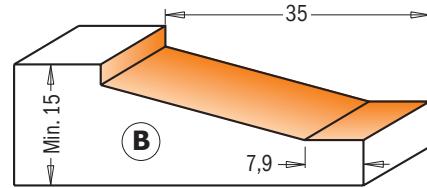
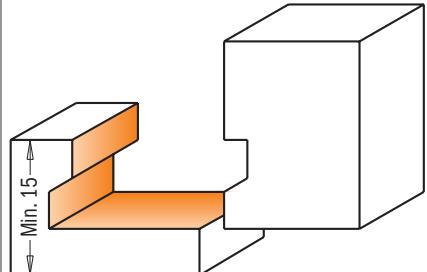
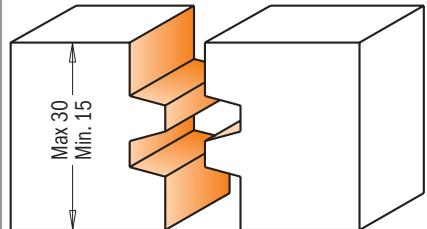
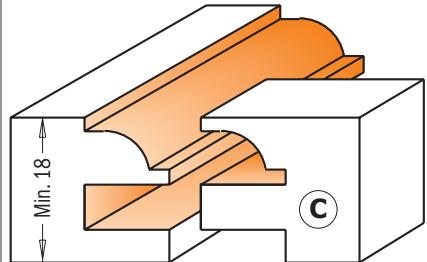
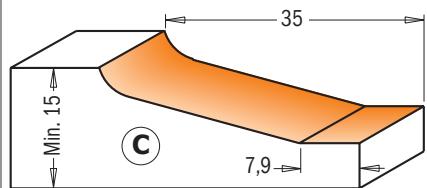
CMT's Complete Kitchen Set

US PATENT NO. 7,703,605 AND OTHER FOREIGN PATENTS



These CMT's sets aren't only a random selection of odds and ends packaged in a nice elegant box, but they are also professional kits for drawer and door makers. 3 sets to choose from, 5 different bits to suit your needs: a raised panel bit, rail and stile bits, a glue joint and a drawer lock bit. Please refer to the illustrations below for complete profile options.

Drawings are 1:1 scale

8/900.509.11

8/900.510.11

8/900.511.11

DESCRIPTION
PACK QTY.
**ORDER NO.
S=Ø12mm**
**ORDER NO.
S=Ø12,7mm**

CMT's Complete Kitchen Set - Profile A (5 HW pcs.)

1

900.509.11
800.509.11

CMT's Complete Kitchen Set - Profile B (5 HW pcs.)

1

900.510.11
800.510.11

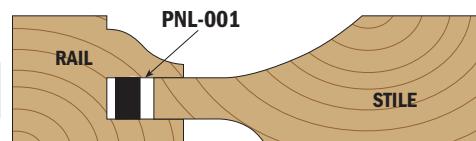
CMT's Complete Kitchen Set - Profile C (5 HW pcs.)

1

900.511.11
800.511.11

Panalight Strips

Beautiful panel doors can be ruined by a poorly-aligned panel. Next time, slip panalign strips into the rails to keep panels perfectly centred while allowing for expansion. Unlike carpet foam, which eventually loses elasticity and ceases to work, the rubber in panalign strips is specially designed to spring back indefinitely. The rectangular shape makes the strips easy to handle. Typical doors require 4 to 8 strips each.

PNL

DESCRIPTION
**DIMENSION
mm**
QTY.
**PACK
QTY.**
ORDER NO.

Panalign Strips

27x7x7mm

200

1

PNL-001

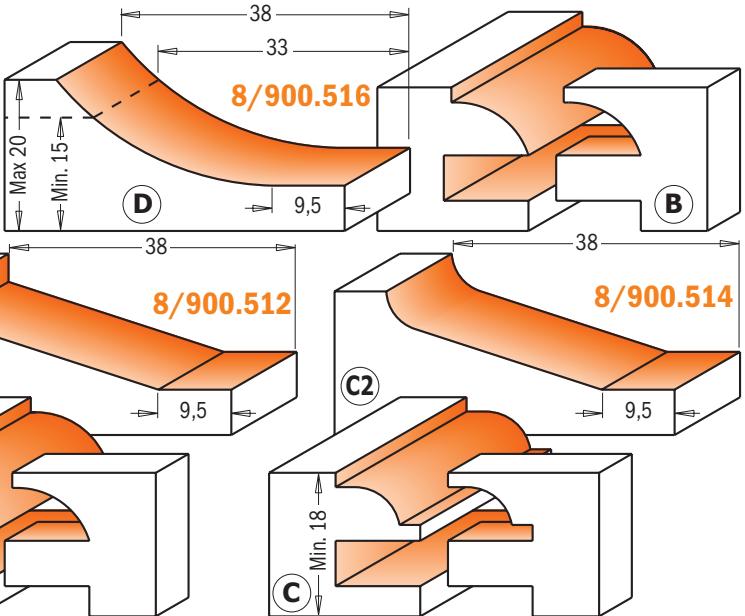
Kitchen Sets

CMT ORANGE TOOLS®

US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS



Our 3 piece kitchen set includes a couple of rail and stile bits and a raised panel bit. Choose among 4 possible profiles to make panel doors easily economically. Each bit is made from bar stock steel and the highest quality tungsten carbide, along with the trademark orange non-stick PTFE coating. Also, they all come with their protective hardwood case: perfect for keeping your bits safe, organized and within reach.



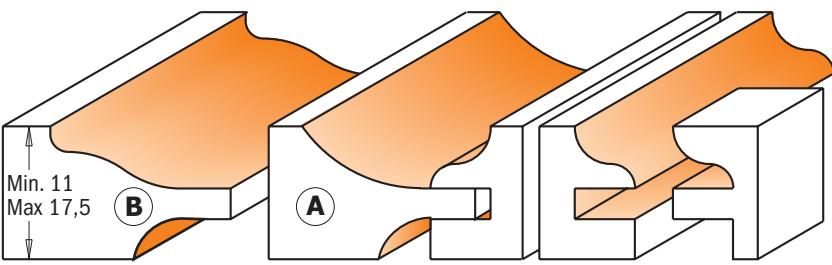
Drawings are 1:1 scale

DESCRIPTION	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
Kitchen Set - Profile A+A ₂	1	900.513.11	800.513.11
Kitchen Set - Profile B+B ₂	1	900.512.11	800.512.11
Kitchen Set - Profile C+C ₂	1	900.514.11	800.514.11
Kitchen Set - Profile D+B	1	900.516.11	800.516.11

The Raised Panel Sets with Backcutter

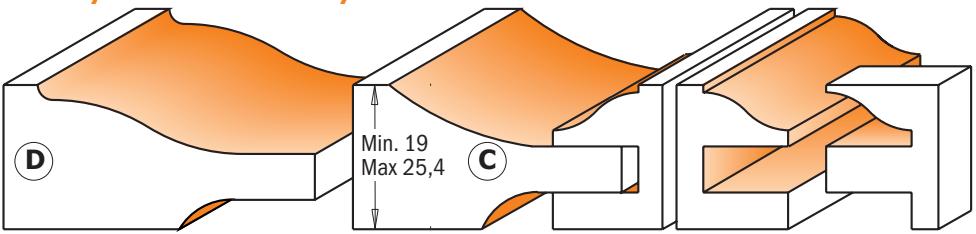
US PATENT NO. 7,703,605
AND OTHER FOREIGN PATENTS

8/900.518 - 8/900.522



Drawings are 1:1 scale

8/900.517 - 8/900.521



CMT's junior raised panel sets add intricate detail on a whole new scale! You will make frame and panel details as small as 70mm square in material as thin as 11mm. Delicate panel doors are only the beginning – use these bits with templates to add interesting arches to your work. The sets include a choice of a cove or an ogee raised panel bit and an ogee rail & stile pair. Packaged in beautiful hardwood cases.

DESCRIPTION	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm
Junior Raised Panel Sets - Profile A (3 HW pcs.)	063,5mm.	1	900.518.11
Junior Raised Panel Sets - Profile B (3 HW pcs.)	063,5mm.	1	900.522.11
Raised Panel Sets - Profile C (3 HW pcs.)	089mm.	1	900.517.11
Raised Panel Sets - Profile D (3 HW pcs.)	089mm.	1	900.521.11

The Cabinetmaking Sets



Available with raised panel bits in two different profiles, these sets feature six router bits for making arched raised panel doors and professional drawer fronts. These sets include:

OGEE RAIL & STILE BITS: these two perfectly matched tools will eliminate the frustration of setting up reversible cutters. The stile bits also feature shear angles for neater cuts.

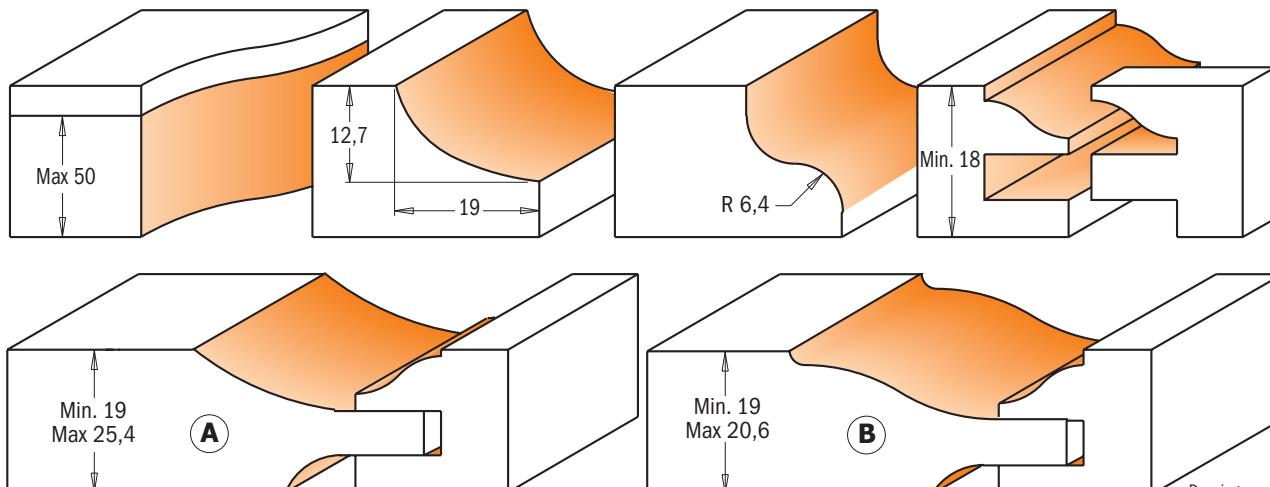
RAISED PANEL BIT WITH BACKCUTTER: this 88,9mm diameter bit features a backcutter for milling both the front and the back on the panel in a single cut. We recommend using a 31mm diameter bearing to work safely in two shallow passes.

SUPER-DUTY FLUSH TRIM BIT: this 19mm diameter bit gives you a superior cut with minimal chipping, even on end grain.

OGEE DOOR EDGE BIT: a subtle cove followed by a subtle roundover adds an elegant touch to your door edge.

DRAWER FRONT BIT: this bit makes a mini-raised panel cut on the outside edges of your drawer fronts.

800.515 - 800.520



Drawings are 1:1 scale

DESCRIPTION	PACK QTY.	ORDER NO. S=Ø12,7mm
The Cabinetmaking Sets - Profile A (6 HW pcs.)	1	800.515.11
The Cabinetmaking Sets - Profile B (6 HW pcs.)	1	800.520.11

Small Arch Door Sets

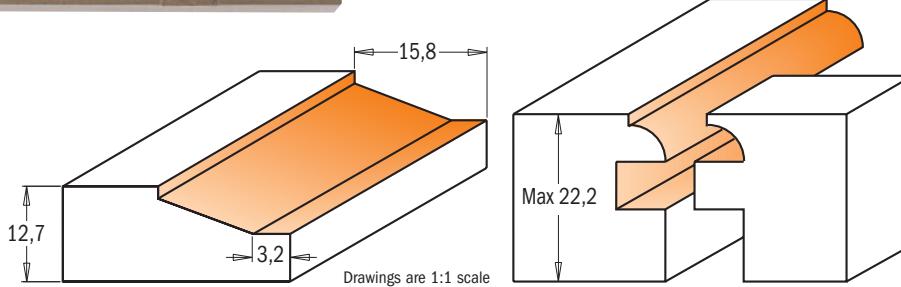


800.524 - 900.024



These 3-piece sets will produce beautifully raised panel doors with a classic bevelled profile. Designed for use in fine furniture making, these sets include two matched cope and stick bits to produce frames from 15,87mm to 19mm in thickness. The stick bit shapes a decorative 4,76mm thumbnail moulding along the edge of the frame.

The panel bit is designed for 12,7mm 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. These sets also produce panels for small chests, lids for small boxes, or drawer fronts. Instructions included.



DESCRIPTION	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø12,7mm
Small Arch Door Sets (3 HW pcs.)	1	900.024.11	800.524.11

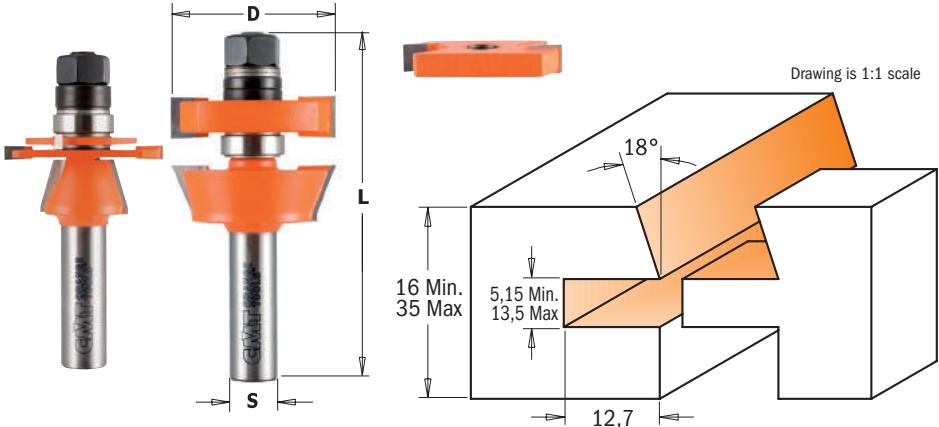
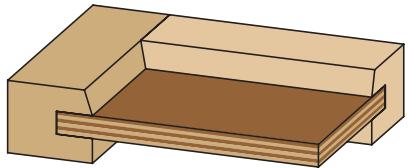
Adjustable Shaker Router Bit Sets

CMT ORANGE TOOLS®



8/900.624

These new bit sets are excellent for producing adjustable tongue and groove joints with a bevel, in order to eliminate panel rattle that may occur with the production of standard cabinets. Cut precise grooves into your plywood veneered panels and make perfect rattle-free fits. To be used on table-mounted routers. Avoid using these bits in hand-held power tools.



D mm	T ₁ mm	A	L mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
41,2	16 - 35	18°	87	5	900.624.11	800.624.11	791.025.00 822.025.11 822.026.11 822.027.11 822.028.11 990.020.00

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
541.519.00	5,8mm spacer

Adjustable Tongue & Groove Bit Set for Mission Style Cabinet Doors

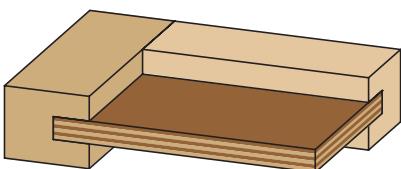


8/900.625

Exclusive CMT design which allows the perfect fix for undersized plywood panel. The tongue cutter features opposing shear angles to obtain flawless finishing on a large variety of materials such as plywood, softwood and hardwood.

For use on a table-mounted router, not for handheld routers.

- Adjustable at 0.050mm (0.002") increments;
- For groove width from 5mm (13/64");
- Cut stock thickness of 12,7mm (1/2") to 31,7mm (1-1/4");
- Features micrograin carbide for longer life.



D mm	T ₁ mm	PACK QTY.	ORDER NO. S=Ø12mm	ORDER NO. S=Ø12,7mm	Spare parts
41,2	5,15-13,5	5	900.625.11	800.625.11	924.136.00 791.012.00 822.025.11 822.026.11 822.027.11 822.028.11 990.020.00
41,2	5,15-13,5	5			824.136.00 791.012.00 822.025.11 822.026.11 822.027.11 822.028.11 990.020.00

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
541.519.00	5,8mm spacer

Router Bit Set with Insert Knives


600.005.01

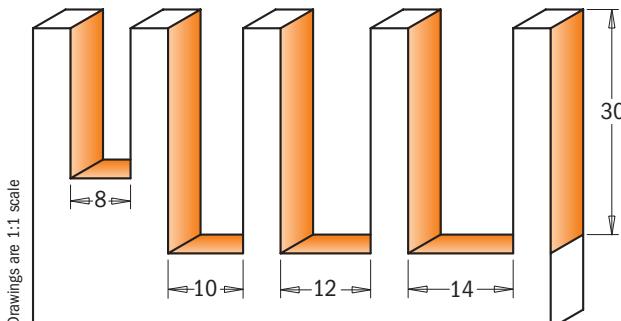
INSERT CARBIDE

Z1
Z2
RH

2X

LONGER LIFE

This set is the perfect companion for the professional craftsman. We offer the 5 most popular bits with knives and all necessary spare knives and Torsx keys. They are perfect for working on all materials such as solid wood, wood composites, plastic and laminated materials. For use with a hand held or CNC router.



Drawings are 1:1 scale

DESCRIPTION
PACK QTY.
ORDER NO.
 S=Ø8mm

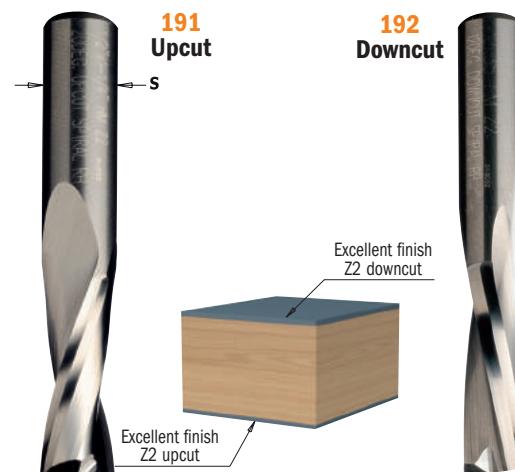
Router Bit Set with Insert Knives

1

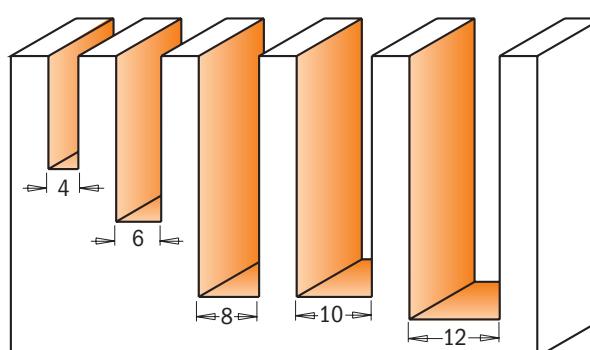
600.005.01
10 spare knives and 2 torx keys included

SET CONTAINS	D mm	I mm	KNIVES	HWM	ORDER NO. S=Ø8mm
Straight Router Bit with Knife	8	20	790.200.01 - 20 x 4,1 x 1,1mm		651.080.11
Straight Router Bit with Knife	10	30	790.300.01 - 30 x 5,5 x 1,1mm		651.100.11
Straight Router Bit with Knife	12	30	790.300.01 - 30 x 5,5 x 1,1mm		651.120.11
Straight Router Bit with Knife	14	30	790.300.01 - 30 x 5,5 x 1,1mm		651.140.11
Flush Trim Bit with Knife	19	30	790.300.00 - 30 x 12 x 1,5mm	791.007.00	657.191.11

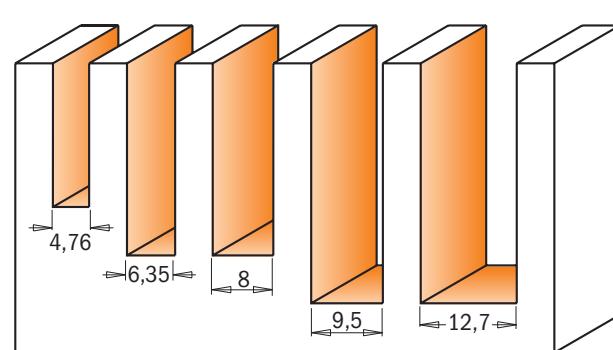
5-Piece Spiral Bit Sets


191/192
HWM
Z2
RH

CMT is proud to offer you these new sets of high quality solid tungsten carbide upcut and downcut spiral bits in the most popular diameters. The new formulated super micrograin composition guarantees extremely sharp long-lasting cutting edges, whereas the spiral layout allows for a more efficient chip ejection. In addition, these bits stay cooler during work and are suitable for CMT's new precision machines. Recommended for use on soft and hardwood, plywood, laminates, MDF and plastic materials. To be used on handheld routers and CNC machines.



Drawings are 1:1 scale

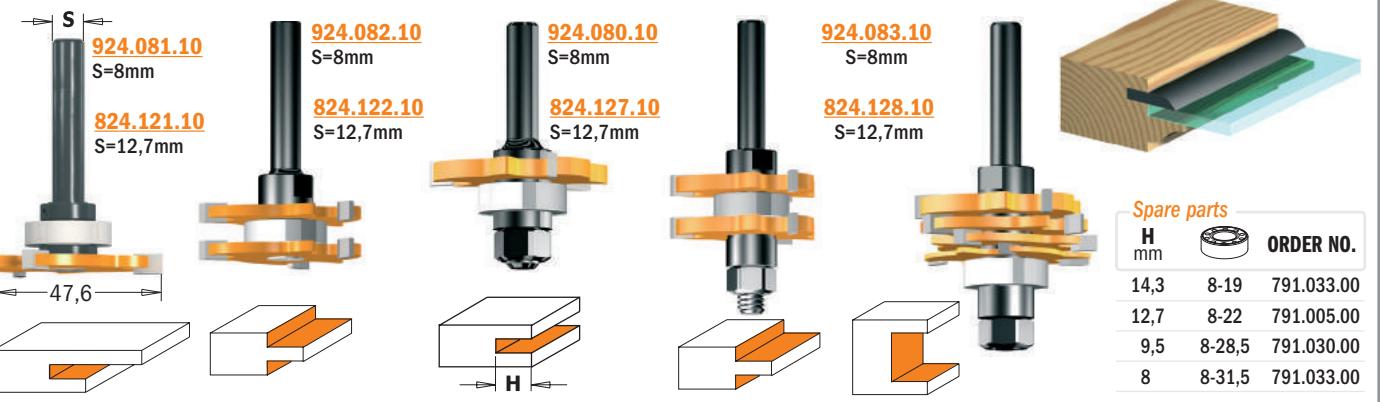


DESCRIPTION	PACK QTY.	ORDER NO. S=Ø8mm	ORDER NO. S=Ø6,35-12,7mm
5-Piece Upcut Spiral Bit Sets (Ø4 - 6 - 8 - 10 - 12mm)	5	191.000.01	
5-Piece Downcut Spiral Bit Sets (Ø4 - 6 - 8 - 10 - 12mm)	5	192.000.01	
5-Piece Upcut Spiral Bit Sets (Ø4,76 - 6,35 - 8 - 9,5 - 12,7mm)	5		191.000.02
5-Piece Downcut Spiral Bit Sets (Ø4,76 - 6,35 - 8 - 9,5 - 12,7mm)	5		192.000.02


8/923.001
HW **Z3** **RH**

Create slots, grooves and rabbets on all materials using the CMT slot cutter sets. Ideal for biscuit and tongue and groove joints. **These sets include 4 different bearings to allow a cutting depth of 7,95mm, 9,5mm, 12,8mm and 14,3mm.** Please refer to the chart below for applications and the correct cutter combinations.

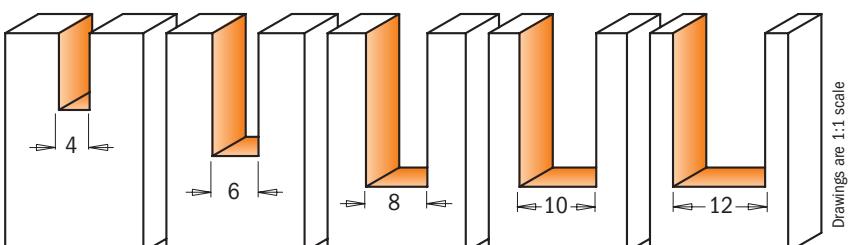
SAFETY TIPS: never use the slot cutter sets without shims between cutters, whose distance can vary from 1mm to 1,7mm. Shims can also be positioned between the ball bearings and the cutters.

Assembly Illustration


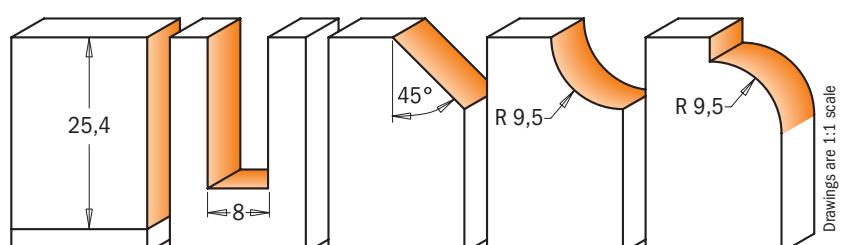
DESCRIPTION	PACK QTY.	ORDER NO. S=Ø8mm	Spare parts								
Set	1	923.001.11	822.320.11	823.330.11	823.340.11	823.350.11	822.360.11	924.081.10	924.082.10	924.080.10	924.083.10
DESCRIPTION	PACK QTY.	ORDER NO. S=Ø12,7mm	Spare parts								
Set	1	823.001.11	822.316.11	823.332.11	823.340.11	822.348.11	822.364.11	824.121.10	824.122.10	824.127.10	824.128.10

5-Piece Straight Bit Set & Profile Bit Set

Our beautiful sets are the perfect companion for the professional craftsman. We offer three 5-piece sets with a selection of straight bits and the most popular profile router bits. These tools feature Fatigue Proof® steel, micro-grain carbide and orange PTFE non-stick coating. Safely stored in a solid plastic box to fit in your display cabinet.

HWM **HW** **Z2** **RH**


DESCRIPTION	PACK QTY.	ORDER NO. S=Ø6,35mm	ORDER NO. S=Ø8mm
5-Piece Straight Bit Set	5	800.005.01	900.005.01



DESCRIPTION	PACK QTY.	ORDER NO. S=Ø6mm	ORDER NO. S=Ø8mm
5-Piece Profile Bit Set	5	700.005.03	900.005.03

What work parameters are best when routing?

Answering the following questions will provide you with the answer!

- **What equipment are you using?** Using brand new equipment of high quality is not the same as using outdated machinery! It is important to understand that vibration is the direct result of wear and tear, which can lead to a poor quality finish. Feed rate should be chosen in order to dampen vibration, and quite often, higher feed rates are associated with better finishing results.
- **What factors influence the performance of the bit I am using?** 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.
- **What bit should I use?** 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 cutting depth I hope to carry out?** In order to increase cutting depth, it is necessary to reduce the feed rate and vice versa for shallower cuts.
- **At what speed does my machine run?** 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 edge finish am I looking to achieve?** 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 best suited to achieve the finish you want.
- **Above all....what materials am I working with?** Wood is a good example of 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 is an anisotropic material, that is, directionally dependent, changing with direction along the object. 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 is 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)

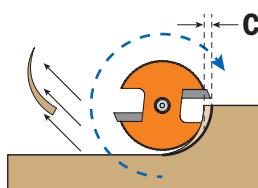
Z = cutting edges

C = Chipload (mm)

FORMULAS:

$$V = (\text{RPM} \times Z \times C) / 1000$$

$$\text{RPM} = V \times 1000 / (Z \times C)$$



EXAMPLE:

with caliper take measurement of a good result chipload (C=0,2mm).

Z=2

RPM=18000

$$V = (\text{RPM} \times Z \times C) / 1000 = (18000 \times 2 \times 0,2) / 1000 = 7,2 \text{ m/min}$$

PROBLEM SOLVING

PROBLEM

SOLUTIONS

Bad finishing
Cutting edge wear
Cutting edge burns
Cutting edge debris
Vibrations
Cutter breakage

• Cutting depth • Vibrations
• Rotation speed • Vibrations
• Rotation speed • Number of cutting-edges
• Cutting depth
• Rotation speed • Cutting depth
• Feed speed • Cutting depth • Vibrations

INCREASE
• Rotation speed • Dust extraction • Number of cutting edges • Clamping cutter/chuck
• Feed speed
• Feed speed
• Rotation speed • Feed speed • Dust extraction
• Machine firmness • Workpiece firmness
• Shank diameter • Collet clamping • Change tool material (solid carbide or Densimet®)

DECREASE

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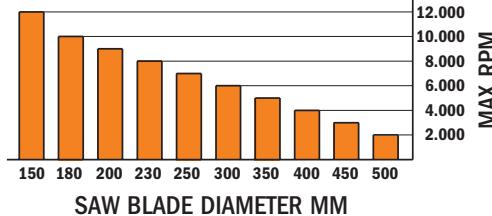
Suggested Tools Rotation

Saw blade safety

- ALWAYS** thoroughly check all blades for damage and flaws before using. Do not use blades with missing or damaged teeth.
- ALWAYS** wear safety glasses and ear protection when using power tools.
- ALWAYS** thoroughly read the owners manual and manufacturer's instructions before working with tools.
- ALWAYS** use a fence and splitter when using the table saw. Do not make freehand cuts.
- ALWAYS** use pusher blocks or a pusher stick, especially when working with small or narrow pieces.
- ALWAYS** unplug your saw before cleaning or adjusting the tool, or before making blade changes.
- ALWAYS** keep your tools sharpened, clean and stored in a safe place to avoid breakage and accidents and to extend the life of your bits and blades.
- ALWAYS** feed the workpiece against the rotation of the blade on table saws.
- ALWAYS** be sure your workpiece is completely supported, before and after the cut.
- NEVER** remove guards from radial arm saws and miter saws.
- NEVER** remove the splitter or anti-kickback devices from table saws.
- NEVER** use dull or damaged blades.
- NEVER** use blades with missing or chipped teeth.
- NEVER** force the cut or overload the saw.
- NEVER** change blades with the saw is plugged in.
- NEVER** make adjustments to any saw while the blade is rotating.



SUGGESTED SAW BLADES ROTATION

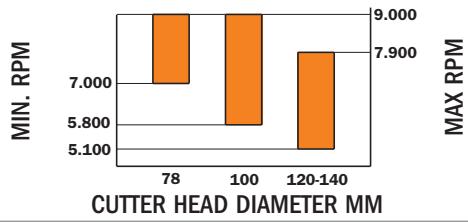


Cutter head safety

- ALWAYS** thoroughly check all cutters for damage and flaws before using.
- ALWAYS** wear safety glasses and ear protection when using power tools.
- ALWAYS** thoroughly read the owners manual and manufacturer's instructions before working with tools.
- ALWAYS** use guards that were supplied with your shaper.
- ALWAYS** use a fence with your shaper. Do not make freehand cuts.
- ALWAYS** use pusher blocks, especially when working with small or narrow pieces.
- ALWAYS** unplug your shaper before cleaning or adjusting the tool, or before making cutter or knife changes.
- ALWAYS** be sure the spindle nut is tight before plugging in the shaper.
- ALWAYS** check that knives are properly and securely installed in the cutterhead when using interchangeable-knife systems.
- ALWAYS** keep your tools sharpened, clean and stored in a safe place to avoid breakage and accidents and to extend the life of your bits and blades.
- ALWAYS** feed the workpiece against the rotation of the knives.
- ALWAYS** be sure your workpiece is completely supported, before and after the cut.
- NEVER** remove guards or any other safety devices from your shaper.
- NEVER** use dull or damaged knives.
- NEVER** force the cut or overload the shaper.
- NEVER** change cutters or knives or make adjustments with the shaper plugged in.
- NEVER** make adjustments to the shaper while the cutter is rotating.

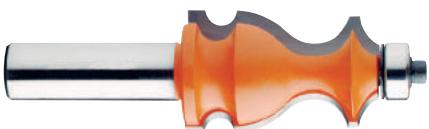


SUGGESTED CUTTER HEADS ROTATION

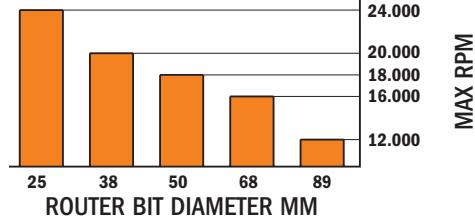


Router bits safety

- ALWAYS** thoroughly check all tools for possible flaws before using.
- ALWAYS** wear safety glasses and ear protection.
- ALWAYS** thoroughly read the owners manual and manufacturer instructions before using.
- ALWAYS** check that at least 75% of the shank is securely inserted into the collet of the router.
- ALWAYS** use template guide collars when possible to absorb lateral bit deflection.
- ALWAYS** use a fence when working on the router table.
- ALWAYS** reduce the router speed when working with larger diameter bits.
- ALWAYS** keep your fence adjusted so there is some clearance between the bearing guide and the workpiece.
- ALWAYS** take care to remove large quantities of stock (cross section > 10mm) in more than one run.
- ALWAYS** keep your tools sharpened, clean and stored in a safe place to avoid breakage and accidents and to extend the life of your bits and blades.
- NEVER** use dull or defective tools, even suspiciously defective.
- NEVER** force the shank entirely into the collet (bottoming out). Leave about a 3,2mm (1/8") space from the bottom.
- NEVER** force the bit into your router or overload the router.



SUGGESTED ROUTER BITS ROTATION



Conversion Table

Inch Decimals	Inch Fractions (x)					mm	Millimeters				
	1/64	1/32	1/16	1/8	1/4		1" + (x)	2" + (x)	3" + (x)	4" + (x)	5" + (x)
0.015625	1/64					0.397	25.797	51.197	76.597	101.997	127.397
0.031250		1/32				0.794	26.194	51.595	76.994	102.394	127.794
0.046875	3/64					1.191	26.591	51.991	77.391	102.791	128.191
0.062500		1/16				1.588	26.988	52.388	77.788	103.188	128.588
0.078125	5/64					1.984	27.384	52.784	78.184	103.584	128.984
0.093750		3/32				2.381	27.781	53.181	78.581	103.981	129.381
0.109375	7/64					2.778	28.178	53.578	78.978	104.378	129.778
0.125000		1/8				3.175	28.575	53.975	79.375	104.775	130.175
0.140625	9/64					3.572	28.972	54.372	79.772	105.172	130.572
0.156250		5/32				3.969	29.369	54.769	80.169	105.569	130.969
0.171875	11/64					4.366	29.766	55.166	80.568	105.966	131.366
0.187500		3/16				4.762	30.162	55.562	80.962	106.362	131.762
0.203125	13/64					5.159	30.559	55.959	81.359	106.759	132.159
0.218750		7/32				5.556	30.956	56.356	81.756	107.156	132.556
0.234375	15/64					5.953	31.353	56.753	82.153	107.553	132.953
0.250000		1/4				6.350	31.750	57.150	82.550	107.950	133.350
0.265625	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
0.296875	19/64					7.541	32.941	58.341	83.741	109.141	134.541
0.312500		5/16				7.938	33.338	58.738	84.138	109.538	134.938
0.328125	21/64					8.334	33.734	59.134	84.534	109.934	135.334
0.343750		11/32				8.731	34.131	59.531	84.931	110.331	135.731
0.359375	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	136.922
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	86.916	112.316	137.716
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	139.303
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
0.546875	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	116.284	141.684
0.593750		19/32				15.081	40.481	65.881	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	117.475	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	144.859
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					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
0.984375	63/64					25.003	50.403	75.803	101.203	126.603	152.003



Explanation of symbol

HV10	Hardness Vickers 10kg (HV10)	N/mm²	Transverse rupture strength (expressed in N/mm ²)
 HW	Tungsten carbide tipped	 HWM	Solid tungsten carbide
 HSS	High speed steel	 HPS	High performance steel
 BIM 8%Co	Bimetal	 BIM TiN	TiN coated bimetal with 8% cobalt teeth
 DP	Polycrystalline diamond	 Polycrystalline diamond	 Diamond grit
 Z1	One cutting edge HW	 Z2	Two cutting edges HW
 Z1+1	One HW + one cutting edges HW	 Z2+2	Two HW + two cutting edges HW
 Z2+1	Two HW + one cutting edges HW	 Z3R	Three cutting edges HW with chipbreaker
 V4	Four spur	 RH	Right-hand rotation
 Antikick-back		 LH	Left-hand rotation
 MEC	Mechanical feed	 MAN	Manual feed
 Slooting		 Radial relief	
 Plastic box for cutter head		 Plastic carry case for saw blades	
 ORANGE CHROME		 HI-DENSITY CARBIDE	High-Density Carbide
 Shear Angle Grind		 XTRIME	High performance tool
 Warning		 NON-STICK ORANGE SHIELD COATING	Non-Stick Orange Shield Coating™
 Wear safety glasses		 Saw blade with dampening slots with fill	
 Warning! Flammable material!		 Saw blade with dampening slots without fill	
		 Wear safety shoes	
		 Wear five finger gloves	
		 Wear ear protection	
		 Wear dust mask	
		 Wear safety helmet	

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