

Welcome to the 2016/2017 catalogue

Dear Customer,

Thank you for your interest in CMT products.

Take a moment to browse our new catalogue and choose from a 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 invest in research and development, but our priority is customer care.

A satisfied customer is worth more than any other achievement, therefore each page of this catalog 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

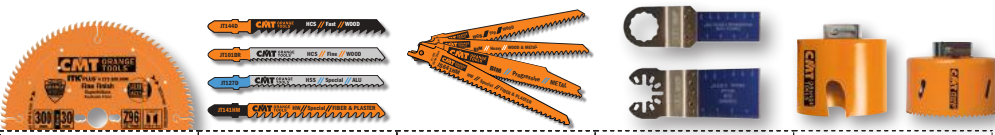


Abbreviations

A	= Cutting angle	Inches	= Inches
α	= Hook angle	K	= Kerf thickness
ATB	= Alternate top bevel grind	L	= Overall length
B	= Bore diameter	L₁	= Working length
β	= Type of grind	LB	= Adjusting length
COMBI3	= Pin-Hole 2/7/42 + 2/9/46,4 + 2/10/60	LH	= Left-hand rotation
COMBI5	= Pin-Hole 2/7/110 + 2/8,4/130 + 2/14/110 + 4/9/100 + 4/19/120	MATB	= Alternate top bevel with chamfer grind
COMBI7	= Pin-Hole 2/10/80 + 1/11/85 + 2/11/115 + 2/11/148 + 2/14/100 + 2/14/125 + 2/19/120	MTCG	= Triple chip grind (trapezoidal) with chamfer
d	= Small cutting diameter	mm	= Millimeters
D	= Diameter	P	= Plate thickness
D₂	= Overall diameter	PTFE	= Non-stick industrial coating, black and orange
D₃	= For shank diameter	R	= Radius
\emptyset	= Diameter	R₁	= Radius
FFT	= Flat flat trapezoidal	RH	= Right-hand rotation
FTG	= Flat top grind	RPM	= Round per minute
FWF	= Flat with alternate chamfer	S	= Shank diameter
H	= Cutting depth	S₁	= Shank diameter
HDF	= Hollow ground teeth	T₁	= Thickness / Maximum joint thickness
I	= Cutting length	TCG	= Triple chip grind (trapezoidal)
l₁	= Short cutting length	V	= Spurs
		Z	= Number of teeth
		\square	= On request
		\bullet	= 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					

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

NEW! CMT Global Web Site!

- Full line catalogue available on line
- Instructional video on select products
- Instruction manuals available for download
- Listing of authorized CMT distributors
- Company history, tech information, testimonials and more!

CMT ORANGE TOOLS

THE ART OF CUTTING

Market Area: Where are you from?

Language: Choose favourite:

News: IWF 2008 - August 20-23, 2008 Atlanta [More news](#)

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

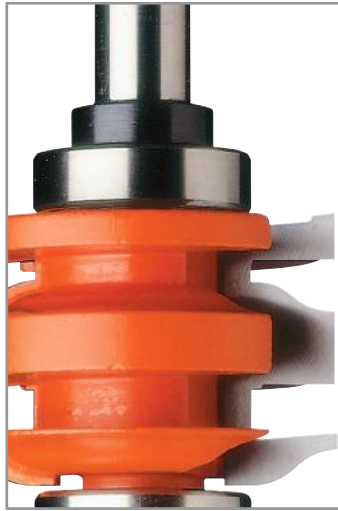
Turning a design into a finished product means finding the right material that will do the job and that lives up to the specifications set out in the design - quality performance from the final product depends on it. When it comes to selecting raw materials, we don't cut corners. At CMT, we know that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

FASTX4® SYSTEM: THE HOLE SAW REVOLUTION!

CMT's innovative system offers great advantages to all professionals!

new

X1 FAST LOCK

ALL IN ONE CLICK!

We developed a unique patented Fast Lock System to quickly change between sizes and types in seconds!

It is the only system that allows the hole saw and the pilot drill to be changed without tools.

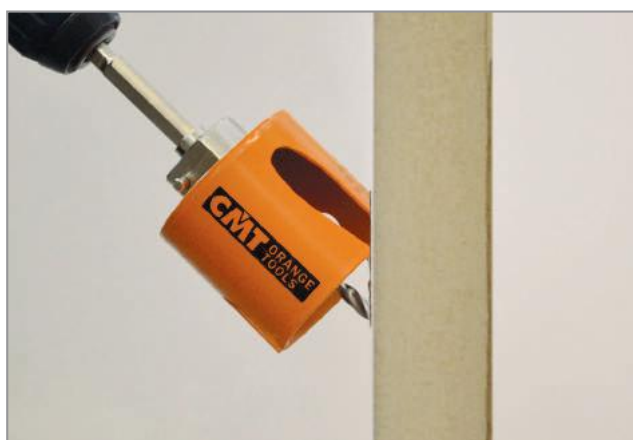


X2 FAST DRILL

FAST DRILLING IN ALL CONDITIONS!

Our hole saws have unique body geometry and teeth sharpening which provides fast, precise drilling at Xtreme angles.

- pre-drill at the desired angle
- push the hole saw forward back in position and complete the hole.



X3 FAST BORE ENLARGEMENT

UNIQUE SOLUTION FOR BORE ENLARGEMENT!

CMT's has a unique and fast solution to enlarge your bores. Our innovative pilot drill bit can fit two hole saws, allowing you to enlarge a hole in seconds.

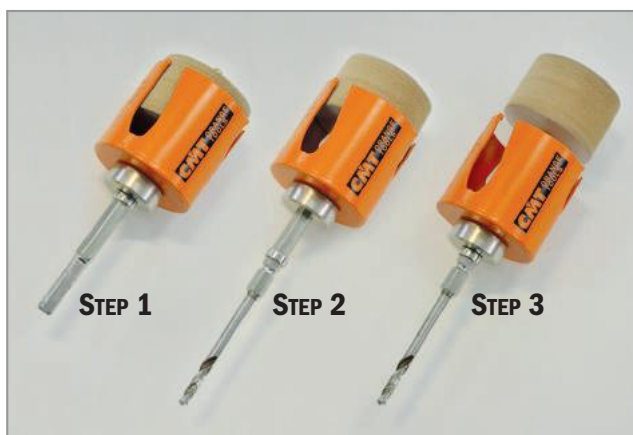


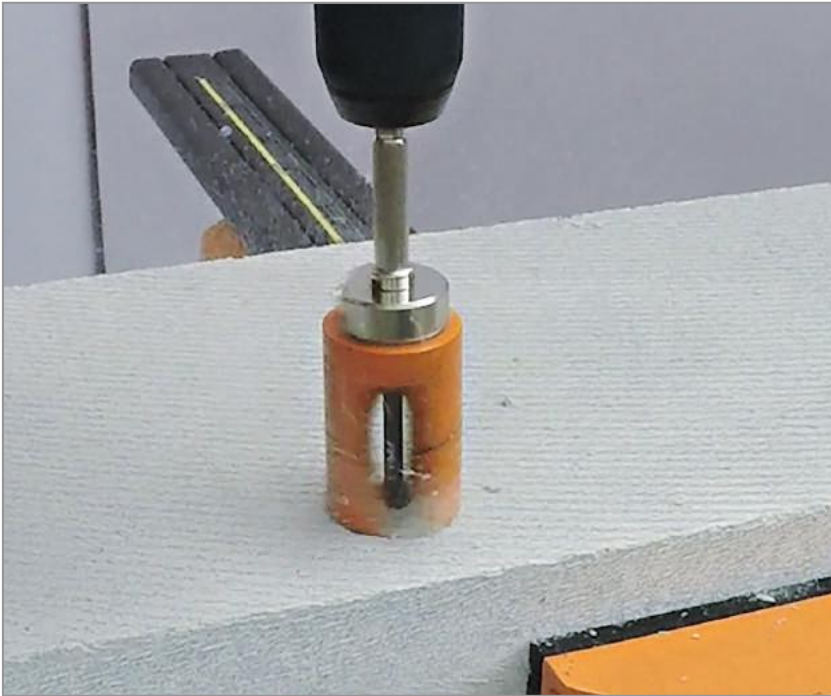
X4 FAST PLUG REMOVAL

EASY PLUG REMOVAL IN ONE CLICK!

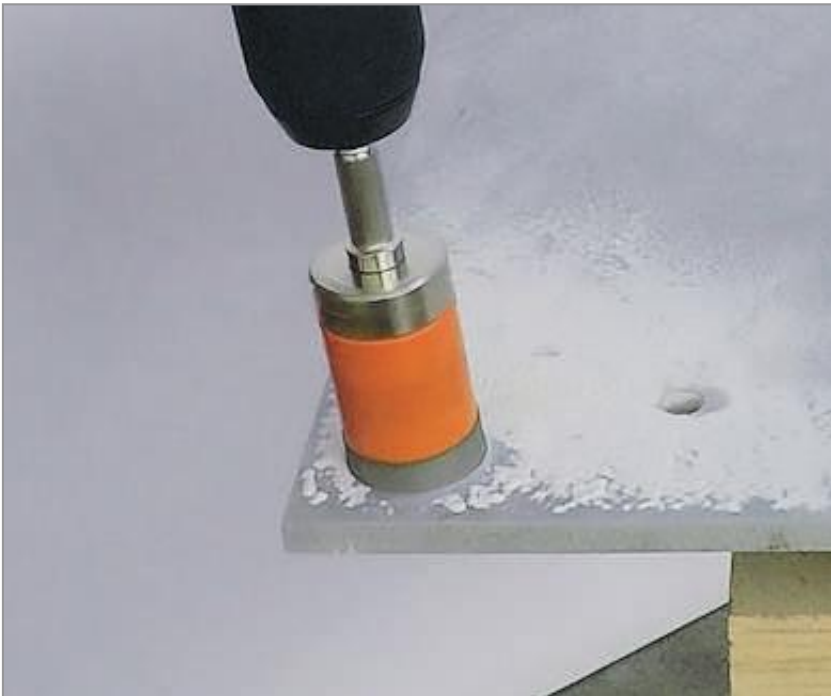
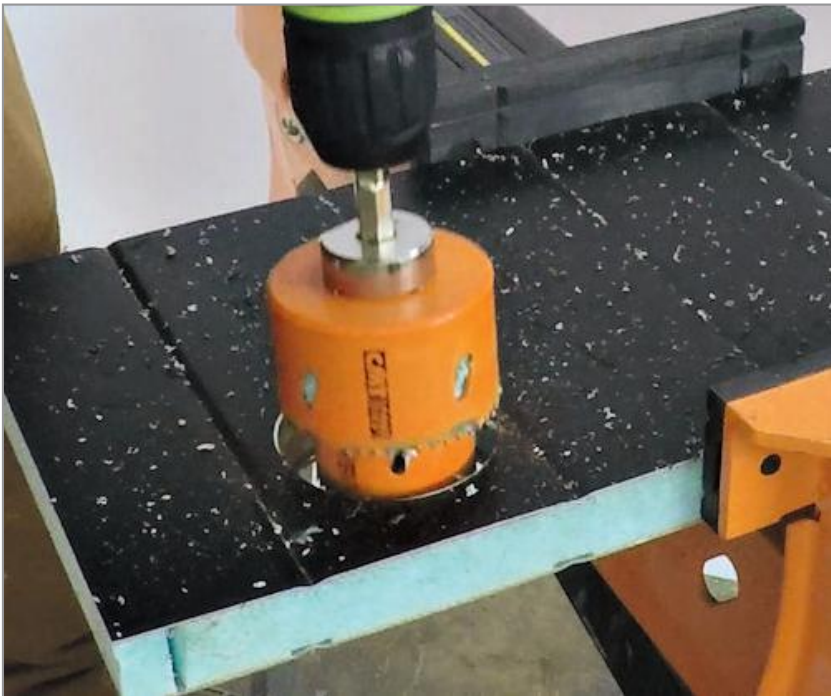
No more screwdrivers or tools!

The plug is effortlessly removed by reversing the pilot drill bit.





HOLE SAW BLADES



PRODUCTS	PAGE
Tungsten Carbide-Tipped	302-303
Tungsten Carbide-Tipped Long	304-305
Bi-Metal Plus 8% Cobalt	306-307
Diamond Dry	308-309
Hole Saw Sets	310

Join us on our
You Tube
channel and watch our
Hole Saws video tutorials.



FASTX4[®] SYSTEM: THE HOLE SAW REVOLUTION!

The innovative patented FASTX4 system makes the hole saw arbor obsolete. These hole saws have been specifically designed to ensure maximum productivity, lifetime and performance in all materials. CMT offers a professional range for electricians, carpenters, builders, kitchen fitters and all related heating, ventilation and plumbing trades.

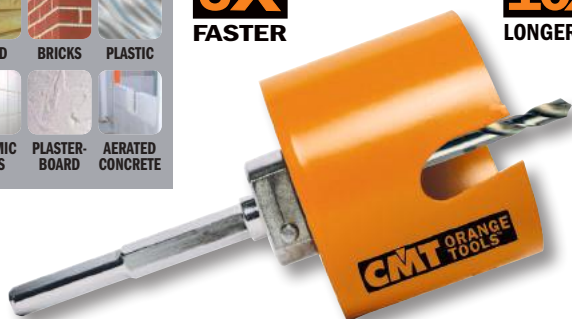
new

SERIES 550 TUNGSTEN CARBIDE-TIPPED SERIES 553 TUNGSTEN CARBIDE-TIPPED LONG



5X
FASTER

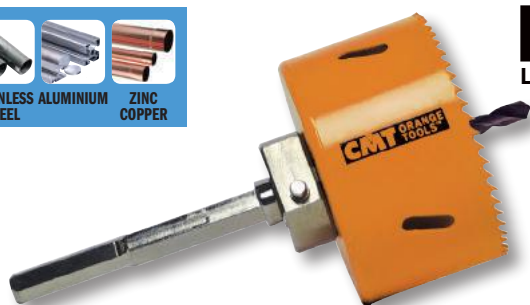
10X
LONGER LIFE



SERIES 551 BI-METAL PLUS 8% COBALT



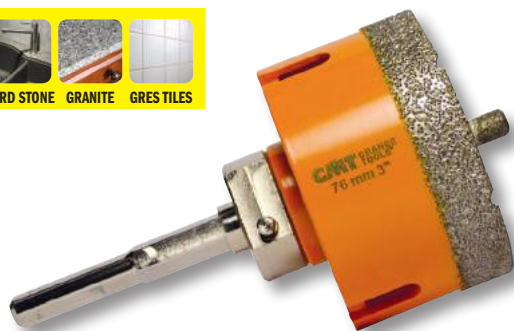
2X
LONGER LIFE



SERIES 552 DIAMOND DRY



10X
LONGER LIFE



Long Lasting Construction Grade Carbide.

A special formulated construction grade carbide is used for the cutting teeth, which provides 10 times longer cutting life.

Tungsten carbide-tipped multi-purpose hole saws are designed for use in a wide variety of materials such as soft and hardwoods, chipboard, plywood, MDF, plastic, gypsum/plasterboard, tiles, solid brick, brick with cavities, aerated concrete block, lightweight aggregate block, breeze block and soft density lime-sandstone building block (max 30 N/mm² hardness).



Bi-Metal Plus 8% Cobalt

Premium bi-metal with 8% cobalt provides Xtreme results in performance and up to 50% longer lifetime than the competition.

Special tooth geometry with regular pitch provides a smoother cut and better chip clearance preventing clogging and heat build-up. Teeth are alternate & side set to minimize binding and friction requiring less feed pressure. Ideal for mild steel (up to 1000 N/mm² strength), stainless steel, non-ferrous metal, aluminium, cast iron, copper and zinc.



Diamond Grit Premium Grade

Very well-shaped and extremely strong cubo-octahedral inclusion-free heat-resistant crystals to deliver fast clean cuts up to 10 times longer life.

Diamond grit edge hole saws have been specially developed for professionals that need to drill in extremely hard materials such as ceramic tile (porcelain, gres, quarry, granite, hard stone), fiberglass, gypsum/plasterboard, fibercement board, Perspex[®], where it is increasingly difficult to drill with conventional hole saws. These hole saws guarantee excellent performance and superior lifetime even in the hardest materials.

EYE-CATCHING PACKAGING



03.01.0297 (empty box)





























03.01.0296 (empty box)



Teeth are protected with heat shrink wrap film

www.cmtutensili.com

Material		Series 550-553 	Series 551 	Series 552 	Tips
Soft and hardwood		>500 holes	<30 holes		
Plywood, table top		>500 holes	<30 holes		
MDF, chipboard, veneered		>500 holes	<30 holes		
Laminated, Trespa®, HPL		>500 holes	<10 holes		
Gypsum and plasterboard		>500 holes	<50 holes	<20 holes	
Fibercement boards, Eternit®		>50 holes	<10 holes	<20 holes	
Sandwich materials			50~75 holes		
Plastic		>100 holes	<20 holes		
Fiberglass		50~100 holes			
Acrylic glass		>100 holes			Use coolant
Roofing tiles		>50 holes			No concrete tiles
Solid bricks, masonry		>50 holes		<20 holes	
Perforated bricks		>50 holes		<20 holes	
Lime bricks		>50 holes			
Porous and lightweight concrete		>500 holes	<20 holes		
Metals and thin sheet metals			10~40 holes		Use coolant oil
Non-ferrous metals			50~75 holes		Use coolant oil
Aluminium			50~75 holes		Use coolant oil
Stainless steel			30~50 holes		Use coolant oil. Low speed
Cast iron			5~10 holes		Use coolant oil
Copper, zinc, brass			50~75 holes		Use coolant oil
Tiles (porcelain, gres, quarry)				10~50 holes	
Hard stone (granite, marble), Okite				10~50 holes	

The number of holes is approximate. Material type, thickness and speed can affect such performance.

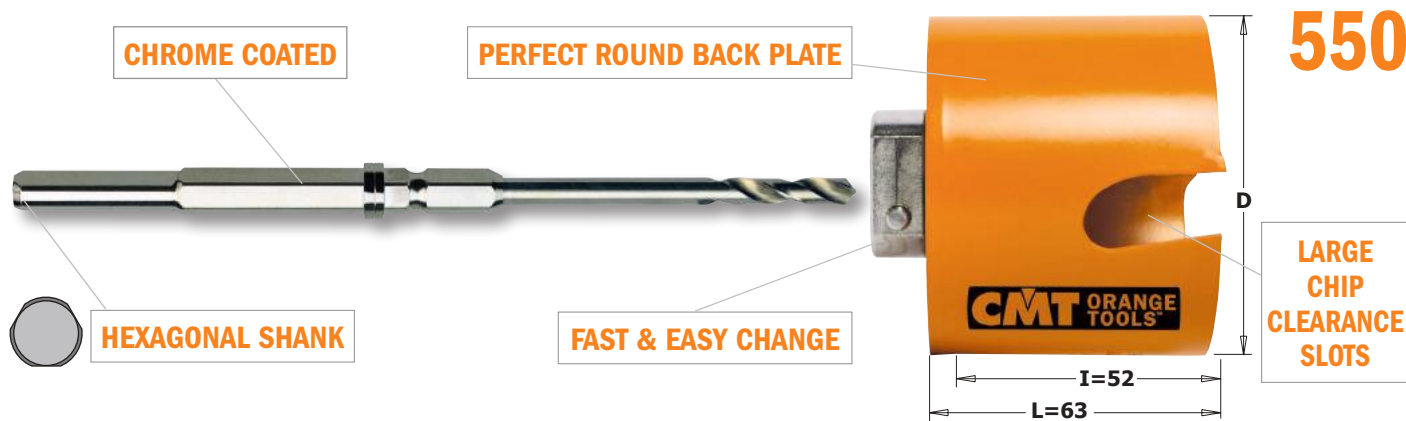
Examples of applications by diameter and user (this may vary country to country)

Diameter in mm	19	22	25	30	35	40	44	48	51	54	57	60	64	68	70	76	83	86	92	102	105	127	152			
Application																								User		
Fitted light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●				Electrician	
Cable feedthrough box				●	●							●						●								
Switch boxes													●													
Plug sockets														●												
Junction boxes															●	●										
Distributor boxes																		●	●							
Air conditioning pipes																					●	●			Heating fitter	
Sanitary and heating pipes	●		●	●	●																				Plumber and heating fitter	
Sanitary, drain and water pipes (insulated)						●	●	●																		

FASTX4[®] Multi-Purpose Hole Saws

new

CMT ORANGE TOOLS[™]



LONG LASTING CONSTRUCTION GRADE CARBIDE.
Cutting teeth are made of a special formulated construction grade carbide which provides a longer cutting life.



SECURED TOOTH TECHNOLOGY

As a result of the latest technology, teeth are secured to prevent any breakage during impact with hard materials.

10X
LONGER LIFE

5X
FASTER



The plug is effortlessly removed thanks to the innovative slots

MATERIALS

- soft, hardwood and plywood
- chipboard, MDF, veneered, laminated and table top
(pre-drill the laminate/melamine by using left-hand rotation for clean finishing)
- gypsum, plasterboard, fibercement board, Eternit[®]
- plastics (PVC, nylon, Trespa[®], polyester)
- fiberglass and acrylic glass
- tiles, solid bricks and bricks with cavities, aerated concrete blocks, lightweight aggregate blocks and breeze blocks, soft density lime-sandstone building blocks (max 30 N/mm² hardness); for hardness >30 N/mm² use the diamond dry hole saws.



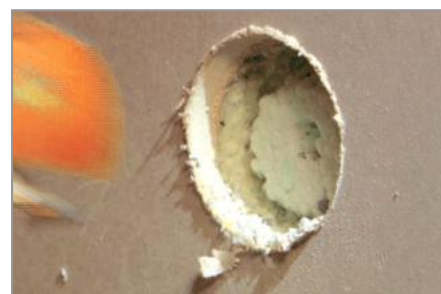
Ceramic tiles



Wood & MDF



Trespa[®] & Plastic



Plasterboard



Soft bricks



Lime bricks



Use the recommended speeds to get optimum lifetime. The speed affects the hole quality.
Always pre-drill with the center drill to achieve best performance.
The percussion/hammer action mode must be turned off when using these hole saws.



mm	D inches	Z	Wood & MDF RPM	PVC & Fiberglass RPM	Masonry, brick RPM	Tiles RPM	S	ORDER NO.
19	3/4	1	1.600	1.000	1.000	640	Hexagonal	550-019
20	25/32	1	1.600	1.000	1.000	640	Hexagonal	550-020
22	7/8	1	1.460	1.000	1.000	580	Hexagonal	550-022
25	1	1	1.280	1.000	1.000	510	Hexagonal	550-025
29	1-1/8	1	1.100	940	940	440	Hexagonal	550-029
30	1-3/16	1	1.070	910	910	430	Hexagonal	550-030
32	1-1/4	1	1.000	850	850	400	Hexagonal	550-032
35	1-3/8	1	920	780	780	370	Hexagonal	550-035
38	1-1/2	2	840	720	720	340	Hexagonal	550-038
40	1-9/16	2	800	680	680	320	Hexagonal	550-040
44	1-3/4	2	730	620	620	290	Hexagonal	550-044
51	2	3	630	540	540	250	Hexagonal	550-051
52	2-3/64	3	620	530	530	250	Hexagonal	550-052
54	2-1/8	3	590	510	510	240	Hexagonal	550-054
56	2-3/16	3	570	490	490	230	Hexagonal	550-056
57	2-1/4	3	560	480	480	220	Hexagonal	550-057
60	2-3/8	3	530	460	460	210	Hexagonal	550-060
64	2-1/2	3	500	430	430	200	Hexagonal	550-064
65	2-9/16	3	500	430	430	200	Hexagonal	550-065
68	2-43/64	3	470	400	400	190	Hexagonal	550-068
70	2-3/4	3	460	390	390	180	Hexagonal	550-070
73	2-7/8	3	440	370	370	180	Hexagonal	550-073
76	3	3	420	360	360	170	Hexagonal	550-076
79	3-1/8	3	410	350	350	160	Hexagonal	550-079
80	3-5/32	3	400	340	340	160	Hexagonal	550-080
82	3-15/64	3	390	330	330	160	Hexagonal	550-082
83	3-1/4	3	390	330	330	150	Hexagonal	550-083
89	3-1/2	3	360	310	310	140	Hexagonal	550-089
92	3-5/8	3	350	300	300	140	Hexagonal	550-092
102	4	5	310	270	270	130	Hexagonal	550-102
105	4-1/8	5	310	260	260	120	Hexagonal	550-105
108	4-1/4	5	300	250	250	120	Hexagonal	550-108
111	4-3/8	5	290	250	250	120	Hexagonal	550-111
114	4-1/2	5	280	240	240	110	Hexagonal	550-114
118	4-5/8	5	280	240	240	110	Hexagonal	550-118
127	5	5	250	220	220	100	Hexagonal	550-127
133	5-1/4	5	240	210	210	100	Hexagonal	550-133
152	6	5	210	180	180	80	Hexagonal	550-152
168	6-5/8	5	200	150	150	120	Hexagonal	550-168
210	8-5/16	5	200	150	150	120	Hexagonal	550-210
225	8-7/8	5	160	120	120	95	Hexagonal	550-225
260	10-15/64	5	150	110	110	80	Hexagonal	550-260
270	10-5/8	5	140	100	100	70	Hexagonal	550-270

550-HS1 For **Ø20-30mm (25/32" - 1-3/16")**.
Hexagonal shank for **10mm (25/64")** chuck, HSS center drill, total length 180mm (7-5/64").



550-HW1 For **Ø20-30mm (25/32" - 1-3/16")**.
Hexagonal shank for **10mm (25/64")** chuck, HW center drill, total length 180mm (7-5/64").



550-HS2 For **Ø32mm (1-1/4") and above**.
Hexagonal shank for **13mm (1/2")** chuck, HSS center drill, total length 180mm (7-5/64").



550-HW2 For **Ø32mm (1-1/4") and above**.
Hexagonal shank for **13mm (1/2")** chuck, HW center drill, total length 180mm (7-5/64").



550-DB1 For plug removal and bore enlargement (in hole saws with different hexagonal shank sizes).
Hexagonal shank for **13mm (1/2")** chuck.



***Bore enlargement: feasible with hole saws with 9mm minimum difference between largest and smallest diameter.**



SAW BLADES
JIG SAW BLADES
SABRE SAW BLADES
TOOLS FOR MULTI-CUTTERS
TOOLS WITH BORE & KNIVES
ROUTER BITS & SETS
CNC ROUTER CUTTER & CHUCKS
INDUSTRIAL DOWEL DRILLS
BITS FOR HAND POWER TOOLS
HOLE SAW BLADES
POWER TOOLS & ACCESSORIES
DISPLAY CABINETS & SPARE PARTS

PERFECT ROUND BACK PLATE

FAST & EASY CHANGE

10X LONGER LIFE 5X FASTER

553

LARGE CHIP CLEARANCE SLOTS

LONG LASTING CONSTRUCTION GRADE CARBIDE.
 Cutting teeth are made of a special formulated construction grade carbide which provides a longer cutting life.

SECURED TOOTH TECHNOLOGY
 As a result of the latest technology, teeth are secured to prevent any breakage during impact with hard materials.



mm	D inches	Z	Wood & MDF RPM	PVC & Fiberglass RPM	Masonry, brick RPM	Tiles RPM	S	ORDER NO.
32	1-1/4	1	800	600	600	400	Hexagonal	553-032
45	1-49/64	2	600	450	450	350	Hexagonal	553-045
51	2	3	600	450	450	350	Hexagonal	553-051
60	2-3/8	3	500	350	350	300	Hexagonal	553-060
65	2-9/16	3	500	350	350	300	Hexagonal	553-065
68	2-43/64	3	500	350	350	300	Hexagonal	553-068
70	2-3/4	3	500	350	350	300	Hexagonal	553-070
76	3	3	500	350	350	300	Hexagonal	553-076
80	3-5/32	3	300	250	250	200	Hexagonal	553-080
83	3-1/4	3	300	250	250	200	Hexagonal	553-083
86	3-3/8	3	300	250	250	200	Hexagonal	553-086
92	3-5/8	3	300	250	250	200	Hexagonal	553-092
102	4	5	300	250	250	200	Hexagonal	553-102
105	4-1/8	5	300	250	250	200	Hexagonal	553-105
111	4-3/8	5	200	150	150	120	Hexagonal	553-111
114	4-1/2	5	200	150	150	120	Hexagonal	553-114
121	4-49/64	5	200	150	150	120	Hexagonal	553-121
130	5-1/8	5	200	150	150	120	Hexagonal	553-130
133	5-1/4	5	200	150	150	120	Hexagonal	553-133
140	5-1/2	5	200	150	150	120	Hexagonal	553-140
152	6	5	200	150	150	120	Hexagonal	553-152
160	6-19/64	7	200	150	150	120	Hexagonal	553-160
190	7-1/2	7	200	150	150	120	Hexagonal	553-190
210	8-5/16	7	200	150	150	120	Hexagonal	553-210

542.100.51 Auger bit **Ø10mm (25/64")** to pre-drill deep holes in wood and wood-based. Hexagonal shank, total length 200mm (7-7/8").

553-HW10 Carbide tipped bit **Ø10mm (25/64")** to pre-drill deep holes in masonry materials. Hexagonal shank, total length 200mm (7-7/8").

553-CP2 Heavy Duty center pin **Ø10mm (25/64")**. Hexagonal shank, total length 330mm (13").



APPLICATIONS in wood, plywood, chipboard, MDF, gypsum, plasterboard, fiber cement boards, Eternit®, plastics, bricks and tiles to create holes in hollow walls for electric flush-mount boxes.



Example of commercial electric flush-mount boxes.

	D	Z	Wood & MDF	PVC & Fiberglass	Masonry, brick	Tiles	S	ORDER NO.
mm	inches		RPM	RPM	RPM	RPM		
65	2-9/16	3	470	400	400	190	Hexagonal	550-065CS
68	2-43/64	3	470	400	400	190	Hexagonal	550-068CS

Hole Saws Accessories

550-HS2XL For Ø32mm (1-1/4") and above.
Long heavy duty hexagonal shank, HSS center drill, total length 320mm (12-19/32").



550-HW2XL For Ø32mm (1-1/4") and above.
Long heavy duty hexagonal shank, HW center drill, total length 320mm (12-19/32").



551-HS2XL For Ø32mm (1-1/4") and above.
Long heavy duty hexagonal shank, HSS center drill, total length 320mm (12-19/32").



550-EX1 / 550-EX2 Extensions for center drills
for Multi-Purpose hole saws series 550 (with a cutting depth of 52mm) and HSS Bimetal hole saws series 551.



S	mm	L	For Chuck	ORDER NO.
		inches	mm	
Hexagonal	300	11-13/16	10	550-EX1
Hexagonal	300	11-13/16	13	550-EX2

550-SDS1 / 550-SDS2 SDS Adaptors for center drills
for Multi-Purpose hole saws series 550 (with a cutting depth of 52mm) and HSS Bimetal hole saws series 551.



S	mm	L	For Chuck	ORDER NO.
		inches	mm	
SDS	95	3-3/4	10	550-SDS1
SDS	95	3-3/4	13	550-SDS2

FASTX4[®] Bi-Metal Plus Hole Saws

new

CMT ORANGE TOOLS[™]

551



MATERIALS

- metals (up to 1000 N/mm² strength)
- mild steel,
- stainless steel
- non-ferrous metals, aluminium
- sandwich materials
- cast iron
- copper, zinc, brass

BIM

BI-METAL PLUS 8% COBALT

Premium bi-metal with 8% cobalt provides Xtreme results in performance and up to 50% longer lifetime than the competition.

2X
LONGER LIFE

ALTERNATE & SIDE SET TEETH



TEETH DESIGN

Special tooth geometry with regular pitch provides a smoother cut and better chip clearance preventing clogging and heat build-up. Teeth are alternate & side set to minimize binding and friction, requiring less feed pressure.



Stainless steel and cast iron



Zinc, aluminium and copper



SPEED KILLS!

Operating at higher speeds than those recommended will shorten hole saw life and produce very inefficient cutting.



FEED PRESSURE:

Variables in material, work configuration should be considered. Apply sufficient feed pressure to aid good chip removal. Reduce the pressure when hole saw becomes hot or if teeth start to clog with material. Insufficient feed pressure will dull tooth points prematurely, but too much pressure can totally destroy teeth.



COOLING LUBRICANT:

Cutting oil serves several purposes when sawing in metals:

- it cools saw and workpiece
- it reduces heat and abrasion, which can shorten cutting life
- it also helps remove swarf from the cutting surface
- using a cooling lubricant will extend your hole saw life by 500%.



Percussion/hammer action mode must be turned off when using these hole saws.



D	Metal	Stainless steel	Cast iron	Aluminium	S	ORDER NO.
mm inches	RPM	RPM	RPM	RPM		
16	550	270	370	800	Hexagonal	551-016
19	470	230	310	670	Hexagonal	551-019
20	440	220	290	640	Hexagonal	551-020
22	400	200	270	580	Hexagonal	551-022
25	350	170	230	510	Hexagonal	551-025
27	330	160	220	470	Hexagonal	551-027
29	310	150	200	440	Hexagonal	551-029
30	300	140	190	430	Hexagonal	551-030
32	280	140	180	400	Hexagonal	551-032
35	250	120	170	370	Hexagonal	551-035
38	230	110	150	340	Hexagonal	551-038
40	220	110	150	320	Hexagonal	551-040
43	210	100	140	300	Hexagonal	551-043
44	200	100	130	290	Hexagonal	551-044
48	180	90	120	270	Hexagonal	551-048
51	170	85	110	250	Hexagonal	551-051
52	160	80	110	240	Hexagonal	551-052
54	160	80	110	240	Hexagonal	551-054
57	160	75	100	220	Hexagonal	551-057
60	150	70	95	210	Hexagonal	551-060
64	140	70	90	205	Hexagonal	551-064
65	140	70	90	205	Hexagonal	551-065
68	130	65	80	185	Hexagonal	551-068
70	130	60	80	185	Hexagonal	551-070
73	120	60	80	180	Hexagonal	551-073
76	120	55	75	170	Hexagonal	551-076
79	110	55	70	165	Hexagonal	551-079
83	105	50	70	155	Hexagonal	551-083
86	105	50	65	150	Hexagonal	551-086
89	100	50	65	145	Hexagonal	551-089
92	95	45	60	140	Hexagonal	551-092
102	85	45	55	130	Hexagonal	551-102
105	80	40	55	120	Hexagonal	551-105
108	80	40	55	120	Hexagonal	551-108
114	80	40	55	120	Hexagonal	551-114
127	70	35	45	90	Hexagonal	551-127
133	65	35	45	90	Hexagonal	551-133
140	65	30	40	85	Hexagonal	551-140
152	55	25	35	75	Hexagonal	551-152
168	55	25	35	75	Hexagonal	551-168



Cutting oil

Cutting oil

Dry

Turpentine



551-HS1

For Bi-Metal PLUS hole saws **Ø16-30mm (5/8" - 1-3/16")**. Hexagonal shank for **10mm (25/64")** chuck, HSS center drill, total length 160mm (6-5/16").


551-HS2

For Bi-Metal PLUS hole saws **Ø32 (1-1/4") and above**. Hexagonal shank for **13mm (1/2")** chuck, HSS center drill, total length 160mm (6-5/16").

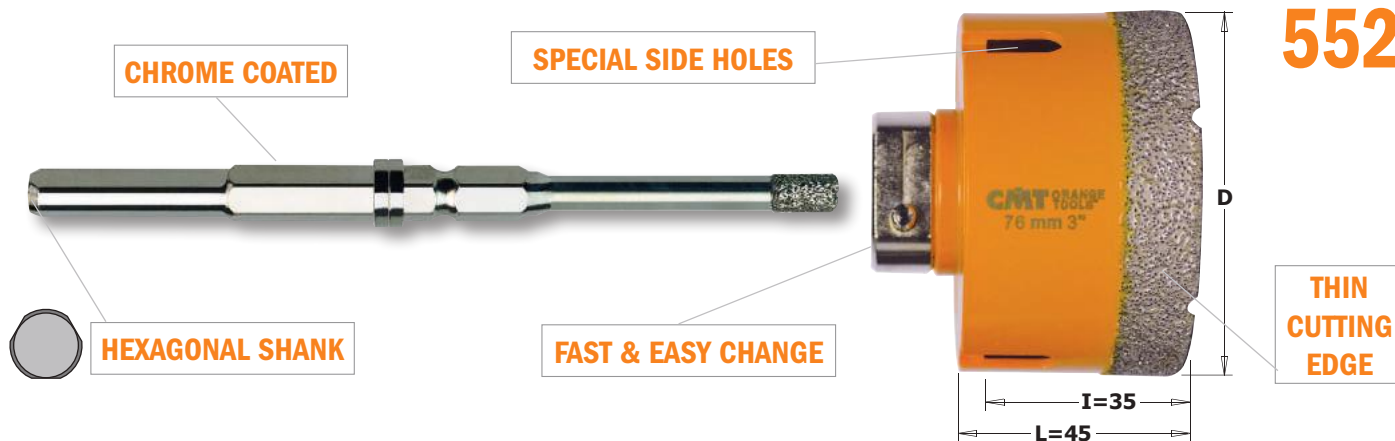

SAW BLADES
JIG SAW BLADES
SABRE SAW BLADES
TOOLS FOR MULTI-CUTTERS
TOOLS WITH BORE & KNIVES
ROUTER BITS & SETS
CNC ROUTER CUTTER & CHUCKS
INDUSTRIAL DOWEL DRILLS
BITS FOR HAND POWER TOOLS
HOLE SAW BLADES
POWER TOOLS & ACCESSORIES
DISPLAY CABINETS & SPARE PARTS

FASTX4[®] Diamond Dry Hole Saws

new

CMT ORANGE TOOLS[™]

552



MATERIALS

- floor tiles (porcelain, gres, quarry)
- wall tiles (porcelain, gres, quarry)
- hard stones (granite, marble), Okite
- solid bricks
- masonry
- gypsum/plasterboard
- fiber cement board
- fiberglass



DIAMOND GRIT PREMIUM GRADE

Well-shaped and extremely strong cubo-octahedral inclusion-free heat-resistant crystals deliver fast, clean cuts up to 10 times longer life.

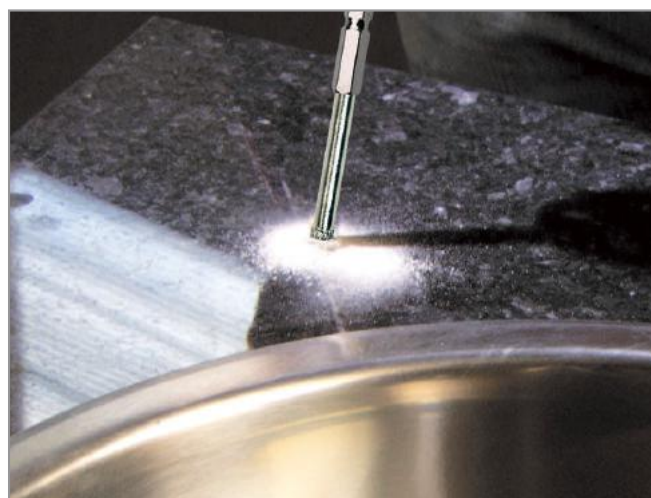
10X
LONGER LIFE

Diamond grit edge hole saws have been specially developed for professionals that need to drill in extremely hard materials where it is increasingly difficult to drill with conventional hole saws.

These hole saws guarantee excellent performance and superior lifetime!



Gres, porcelain and ceramic tiles



Granite and Marble



HARD STONE



GRANITE



GRES TILES



Percussion/hammer action mode must be turned off when using these hole saws.
NO angle grinder, just a high speed drilling machine (minimum 14V recommended).
Always pre-drill with the center drill to achieve the best performance.
Accurate drill positioning. Center drill reduces the risk of slipping.





D		Tiles (ceramic & gres) Hard stone, bricks, masonry	S	ORDER NO.
mm	inches			
5	13/64	RPM 1500 ~ 4000	Hexagonal	552-005
6	1/4	RPM 1500 ~ 4000	Hexagonal	552-006
8	5/16	RPM 1500 ~ 4000	Hexagonal	552-008
10	3/8	RPM 1500 ~ 4000	Hexagonal	552-010
12	15/32	RPM 1500 ~ 4000	Hexagonal	552-012
14	9/16	RPM 1500 ~ 4000	Hexagonal	552-014
16	5/8	RPM 1500 ~ 4000	Hexagonal	552-016

Filled with cooling wax



D		Tiles (ceramic & gres) Hard stone, bricks, masonry	S	ORDER NO.
mm	inches			
18	45/64	RPM 1500 ~ 4000	Hexagonal	552-018
20	25/32	RPM 1500 ~ 4000	Hexagonal	552-020
25	1	RPM 1500 ~ 4000	Hexagonal	552-025
32	1-1/4	RPM 1500 ~ 4000	Hexagonal	552-032
35	1-3/8	RPM 1500 ~ 4000	Hexagonal	552-035
38	1-1/2	RPM 1500 ~ 4000	Hexagonal	552-038
51	2	RPM 1500 ~ 4000	Hexagonal	552-051
55	2-11/64	RPM 1500 ~ 4000	Hexagonal	552-055
68	2-43/64	RPM 1500 ~ 4000	Hexagonal	552-068
76	3	RPM 1500 ~ 4000	Hexagonal	552-076
111	4-3/8	RPM 1500 ~ 4000	Hexagonal	552-111



Filled with cooling wax

552-DD1

For diamond dry hole saws ≤ Ø30mm (1-3/16"). Hexagonal shank for 10mm (25/64") chuck, 8mm diamond center drill, total length 143mm (5-5/8").



Filled with cooling wax

552-DD2

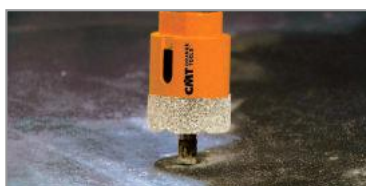
For diamond dry hole saws ≥ Ø32mm (1-1/4"). Hexagonal shank for 13mm (1/2") chuck, 10mm diamond center drill, total length 143mm (5-5/8").



552-WAX

Jar 100ml. (3.4oz). Cooling Wax, for perfect cooling and lubrication.

**Diamond
dry
step-by-step**



**NO WATER,
LESS MESS!**

BUY HOLE SAWS + ARBORS AND YOU'LL GET THE CASE TO COLLECT THE WHOLE SET FOR FREE!

new



03.01.0297

The big case is provided empty, image is purely indicative.



03.01.0296

The small case is provided empty, image is purely indicative.

HW

SERIES 550 TUNGSTEN CARBIDE-TIPPED

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.	Ø
550-020	20	550-056	56	550-HS2	
550-022	22	550-060	60	550-HW2	
550-025	25	550-064	64	550-HS1	
550-029	29	550-068	68	550-HW1	
550-030	30	550-070	70	20+4 pcs.	
550-032	32	550-073	73		
550-035	35	550-076	76		
550-040	40	550-080	80		
550-044	44	550-102	102		
550-051	51	550-152	152		

HW

SERIES 550 TUNGSTEN CARBIDE-TIPPED

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
550-025	25	550-060	60	550-HS2
550-032	32	550-064	64	550-HW2
550-035	35	550-068	68	550-HS1
550-040	40	550-080	80	550-HW1
550-051	51	550-102	102	

10+4
pcs.

BIM

SERIES 551 BI-METAL PLUS 8% COBALT

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
551-020	20	551-040	40	551-HS2
551-022	22	551-043	43	551-HS1
551-025	25	551-051	51	
551-030	30	551-060	60	
551-035	35	551-079	79	

10+2
pcs.

BIM

SERIES 551 BI-METAL PLUS 8% COBALT

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.	Ø
551-020	20	551-057	57	551-HS2	
551-022	22	551-060	60	551-HS1	
551-025	25	551-064	64	20+2 pcs.	
551-027	27	551-068	68		
551-030	30	551-076	76		
551-035	35	551-079	79		
551-040	40	551-083	83		
551-043	43	551-089	89		
551-048	48	551-102	102		
551-051	51	551-108	108		



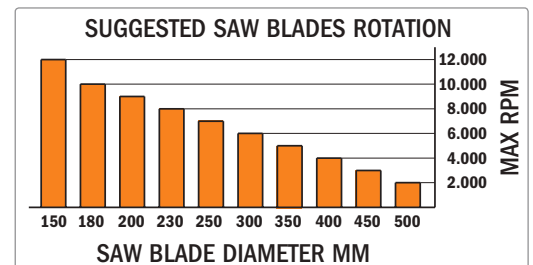
SERIES 552 DIAMOND DRY

ORDER NO.	Ø	ORDER NO.	Ø	ORDER NO.
552-005	5	552-016	16	552-DD2
552-006	6	552-020	20	552-DD1
552-008	8	552-025	25	552-WAX
552-010	10	552-032	32	
552-012	12	552-035	35	

10+3
pcs.

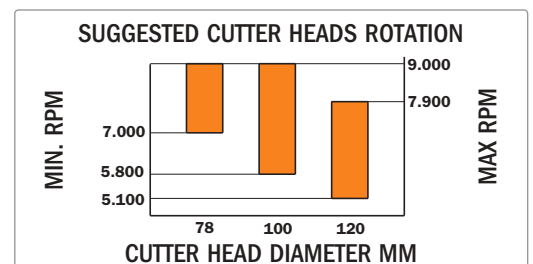
Saw blade safety

- 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 work 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 plugged in.
- NEVER** make adjustments to any saw while the blade is turning.



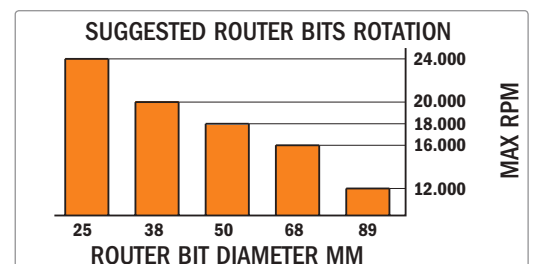
Cutter head safety

- 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 work 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 turning.



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, even suspiciously defective, tools.
- 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.



Explanation of symbol



Tungsten carbide
tipped



Solid tungsten carbide



High speed steel



Alloyed tools steel



High-alloyed tool steel



High performance steel



High carbon steel



Bimetal



High speed steel



TiN coated bimetal
with 8% cobalt teeth



Cermet Carbide



Insert carbide



Carbide grit



Polycrystalline
diamond



Polycrystalline
diamond



Diamond grit



One cutting edge



One + one
cutting edges



Two cutting edges



Two + one
cutting edges



Two + two
cutting edges



Three cutting edges



Three + three
cutting edges



Three cutting edges
with chipbreaker



Four cutting edges



Twelve cutting edges



One spur



Two spur



Four spur



Right-hand rotation



Left-hand rotation



Right-hand &
Left-hand rotation



Antikick-back



Radial relief



Tool with plunging
capacity



Axial angle



Mechanical feed



Manual feed



Grooving, sizing



Rebating



Slotting



Non-axial boring



Spiral boring



Tool with bearing



Plastic box
for cutter head



Plastic carry case
for saw blades



Clamshell carry case
for saw blades



Cardboard box
for saw blades



Industrial Thin-kerf blade



ORANGE CHROME



High-Density Carbide



XTREME
High
performance tool



Non-Stick
Orange Shield
Coating™



Shear Angle Grind



Saw blade
with dampening slots
with fill



Saw blade
with dampening slots
without fill



Warning



Not for hand held use
for router table only



Wear safety shoes



Wear five finger gloves



Wear safety glasses



Wear ear protection



Wear dust mask



Wear safety helmet

Conditions of trading

PREMISE

C.M.T. products are the result of technological innovation achieved through continuous research applied on a vast scale. Drawings, technical data, photos of the products and packaging are supplied for the sole purpose of informing the customer and are not binding in any manner. **C.M.T.** may undertake, when necessary, modifications and improvements without applying these innovations to the parts already supplied. The operational tolerances conform to technical standards that are acceptable for this range of tools.

ACCEPTANCE OF THE CONTRACT

All orders for our products are meant to be accepted at the price and sale conditions that are legally in force at the date of delivery.

Every order will be treated and supplied according to the following general sale conditions. By placing an order or accepting an offer, the customer accepts, without any reservations, all conditions expressly mentioned hereafter.

Any other derogation will only be accepted upon written consent by **C.M.T.** All other cases not contained within these conditions will fall under the Italian Civil Code.

Offers and order confirmations will be processed according to stock availability. Any order, even those taken by our representative agents, will be subject to our acceptance, which could also be a partial one.

We will notify the acceptance of any order by an order confirmation in which we will indicate all details pertaining to the items purchased, their price and expected delivery date. Therefore, we will not be able to accept any modification after three working days from the date of receipt.

MINIMUM AMOUNT ACCEPTABLE

C.M.T. will only be able to accept and process orders for a minimum net amount of € 100,00.

In case of acceptance of the order, we will add € 15,00 for shipping and handling.

PRICES

The prices stated in **C.M.T.'s** quotation and price lists are gross and are intended to be "ex-works".

Prices and VAT will be those in force at the date of shipping. To the best of our knowledge, the prices indicated in our catalogues, price lists and order confirmations are correct. However, **C.M.T.** cannot be held legally liable for reserving the right to change prices without notification in line with the manufacturer's cost increases.

DELIVERY

Delivery dates in the order confirmation are given as an indication of the estimated delivery time. They have to be considered as reliable only in case of normal operating conditions, and there shall be no liability on the part of the Seller for any failure to deliver due to causes beyond the Seller's control. **C.M.T.** will also not be able to accept any cancellation of existing orders which were not delivered in time due to external impediments.

Standard products will be shipped within five working days from receipt of the order.

SHIPPING AND HANDLING

The packing of our products will be charged on the final invoice, while shipping is "ex-works" from our factory at Chiusa di Ginestreto (Pesaro).

All products supplied by **C.M.T.** travel at the customer's own risk.

C.M.T. retains the right to charge freight costs on the invoice in case of value under the minimum amount acceptable of €100,00.

C.M.T. will not be held responsible for any damage, theft or tampering that might occur during transport, and for which the forwarder will be legally liable according to article 1693 of the Civil Code. The customer, for his part, will have to check the goods at the moment of receipt and, in case any anomaly or damage is found, he will have to apply for a refund to be addressed to the forwarder.

PAYMENT

Cash payments can only be accepted for purchases done directly at the **C.M.T.** factory located in Chiusa di Ginestreto (Pesaro) in accordance with article 1182, sub-section 3 of the Civil Code, or upon delivery of the goods provided there is a written agreement between the parties.

Deferred methods of payment will have to be previously agreed with the Seller. In this case, if one or more instalments are not paid, the agreement will automatically expire according to article 1186 of the Civil Code.

A delay in payment, even partial, will automatically incur interest in the amount of an extra 5% to be charged to the customer's account.

In case of non payment, **C.M.T.** reserves the right to suspend any further supply of its products.

WARRANTY

All professional tools by **C.M.T.** are manufactured according to high standards of technology and are therefore warranted against any possible defect. This warranty does not cover damage or tampering which can be ascribed to inappropriate use. It is also not applicable for tools that have been re-sharpened.

This warranty does not cover the possible injuries resulting from inappropriate use of defective tools.

C.M.T. will repair or replace any goods which the buyer shall prove to have been defective in material or workmanship upon analysis by its technical department. Any complaint must be communicated within fifteen days from receipt of the goods together with a written form in which the customer provides a detailed description of the defect. Any return of tools will only be accepted upon authorisation by **C.M.T.** and the freight will be at the customer's own expense.

OWNERSHIP RIGHTS

All rights are reserved in accordance with Italian law and with international agreements, and the whole or any part of this catalogue may not be reproduced in any way or form.

PLACE OF JURISDICTION

For any legal matter the place of jurisdiction is Pesaro.

All contracts, even those made with foreign Buyers or for goods to be sent abroad, are regulated by Italian legislation.



C.M.T. UTENSILI S.p.A.

Via della Meccanica
61122 Pesaro - Fraz. Chiusa di Ginestreto - Italia

Tel. #39 0721 48571
Fax #39 0721 481021
e-mail info@cmtutensili.com

www.cmtutensili.com

ORDER NO. 03.60.3006

