

Maximize Your HW Saw's Performance



BLADE RANGE	ORANGE CHROME®		XTREME		INDUSTRIAL		ITK PLUS®	
PERFORMANCE	★★★★★ 		★★★★★ 		★★★★★ 		★★★★★ 	
DESCRIPTION	Designed for professional woodworkers & industrial production requiring high precision and extreme durability in the most challenging applications. Highest possible quality technological market has to offer.				Designed for specialized woodworkers, finish carpenters, construction and industrial users who run their blades all day long demanding precision and extended life, while conquering the most challenging applications.		Designed for the contractor and remodeler who require clean, fast, effortless cuts through wood and wood composite material. The features of the ITK Plus® line offers great price-performance balance which means greater value.	
PACKAGING	CARTON BOX + COLORED LABEL				CARTON BOX		CARTON BOX + COLORED LABEL	
STEEL PLATE	LASER-CUT PREMIUM QUALITY STEEL PLATE Made of 46-48 HRC precision German steel which is laser-cut to provide tighter tolerances ensuring longer life and more accurate cuts.						HIGH QUALITY LASER-CUT PLATE Strong plate body, laser cut from the finest steel which is then hardened to 44 HRC ensuring longer life and precision cutting.	
CARBIDE TEETH	 INDUSTRIAL CHROMIUM MICROGRAIN CARBIDE Cutting teeth are made from a specially formulated chromium micrograin carbide which stays sharper longer by reducing cutting edge abrasion, improving cut quality and tool life.				 INDUSTRIAL SINTERHIP HI-DENSITY CARBIDE The new process SinterHIP (high temperature 1025°C and high pressure 105 bar) creates a porosity-free and Hi-Density carbide which provides a longer cutting life than traditional carbide.			
KERF	FULL KERF						THIN-KERF	
BRAZING	 TRI-METAL BRAZING The Silver-Copper-Silver tri-metal brazing process lets the teeth withstand severe impact caused by cutting harder wood and composite material.				SILVER BRAZING The silver brazing process lets the teeth withstand the standard impact caused by cutting soft wood and composite material.			
COATING	 ORANGE CHROME Blade plate is covered with a chrome layer to protect your tool against corrosion and rust, guaranteeing longer tool life.		HARD LACQUER Protects against corrosion and rust.		 ORANGE SHIELD COATING Keeps the blade running cool, reduces pitch build up and protects against corrosion. Ideal for all types of wood including wet lumber.			
EXPANSION SLOTS	LASER-CUT HEAT EXPANSION SLOTS Engineered to allow the blade to expand when heat build-up occurs from use, preventing blade warping.							
SOUND DAMPENING CHANNELS	 LASER-CUT SLOTS FILLED WITH SOUND-DAMPENING MATERIAL Slots are filled with polyurethane to reduce vibrations and noise (10% less than standard saw blades), improving cut quality and blade life.		LASER-CUT SOUND-DAMPENING CHANNELS Specifically designed to dampen running noise and control wobbling caused by unwanted harmonic vibration.					
TENSIONING RINGS	TENSIONING RING A visible tensioning ring on the blade body provides stability during cut and perfect concentricity during rotation.				✗		✗	
SHARPENING	 PRECISION MIRROR FINISH SHARPENING Each tooth is ground to razor sharp precision on a multi-axis CNC machine which creates perfect edge angle, guaranteeing extra-clean cuts and extended life. Featuring less than 0.25 µm Rmax in edge roughness.				PRECISION FINISH SHARPENING Each tooth is ground to razor sharp precision on a multi-axis CNC machine which creates perfect edge angle, guaranteeing extra-clean cuts and extended life. Featuring less than 0.35 µm Rmax in edge roughness.		 SHEAR ANGLE SHARPENING The shear angle grind on the front face of the teeth allows for smoother cutting, while reducing the required cutting force thereby improving cutting speed and setting a new standard for performance.	
BALANCING	 CMT XTREME BALANCING™ This system allows for extremely accurate dynamic balancing of the blade, several orders of magnitude above and beyond that which is currently available in the marketplace. ™TRADEMARK & INT. PAT. PEND.				✗		✗	

™TRADEMARK & INT. PAT. PEND.

CONSTRUCTION/CONTRACTOR  11-12	MULTI-RIP  13-16	RIPPING  17-19	RIPPING & CROSSCUT  20-23	WOOD
FINISHING  24-27	FINE FINISHING  28-31	ULTRA FINE FINISHING  32-34	ULTRA FINE FINISHING - FRAMES  35	
FINE FINISHING - DOUBLE SIDED  36-37	LAMINATED & CHIPBOARD  38-42,46	PANEL SIZING  43	SCORING  43-46	
DADO  58-59	GROOVING  60-61	GROOVING SYSTEM  62-63	BISCUIT JOINER  62	
NON-FERROUS & PLASTIC  48	NON-FERROUS & MELAMINE  49	NON-FERROUS & MELAMINE  50	NON-FERROUS & MELAMINE  51	NON-FERROUS
HSS - METAL & STEEL  52	HSS - METAL & STEEL  53	METAL & STEEL  54-55	STAINLESS STEEL  56	
DP - ULTRA-HARD MATERIALS  10	DP - MULTI-MATERIALS  47	SOLID SURFACE & PLASTIC  57	CLEARING GRASS, BUSHES, SMALL TREES  63	MULTI MATERIALS

NEW PRODUCTION FACILITY IN UDINE, ITALIA

We are honored to announce the appointment of Piergiorgio Pozzo as Head of the administrative team at our new and highly technological blade production plant based in Udine.

Mr. Pozzo's experience stems from a long-standing commitment to and success in the development of high-performance industrial blades.

Thanks to a rich and extensive knowledge in the field, Mr. Pozzo and his team have successfully patented a brand-new saw blade line of outstanding quality.



QUALITY ACCORDING TO CMT

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

STEEL PLATE

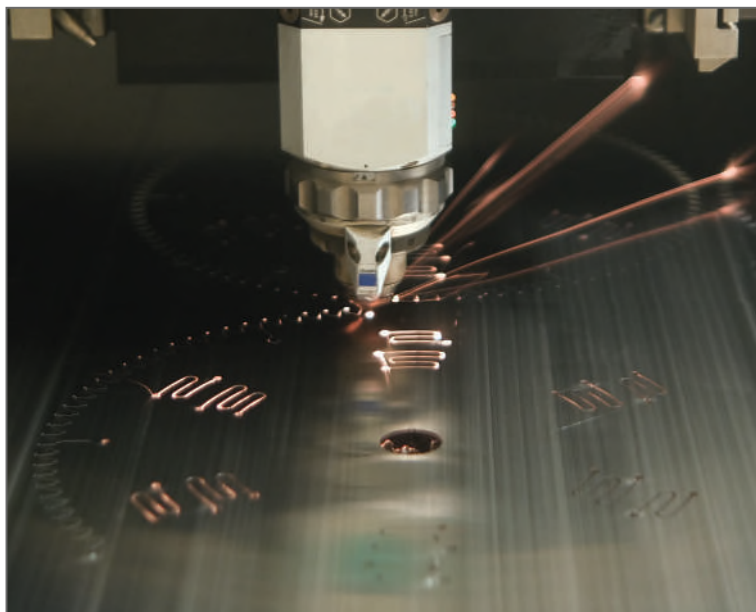
The body of a blade is an integral part of blade design; cutting quality and longevity depend on it. We use only the highest quality steel available, so durable and tough that it will not only withstand heavy workloads, but also be flexible enough to bend without breaking.

LASER CUT

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

EXPANSION SLOTS

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



NEW LASER-CUT SLOTS FILLED WITH SOUND-DAMPENING POLYMER

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

Improved cutting quality and extended blade life.

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

Fully compliant with National Noise Emission Standard & Regulation.



CMT XTREME BALANCING*

* TRADEMARK & INT. PAT. PEND.

This system allows for extremely accurate dynamic balancing of the blade, several orders of magnitude above and beyond that which is currently available in the marketplace.

Each blade undergoes rigorous assessment and only in the event that micro imbalance is detected will the appropriate correction holes be applied.

You may find 1 to 5 micro balancing holes on your blade, depending on the degree of micro imbalance (fig.1). When in perfect balance, a single incision will appear on the blade as proof of balance (fig.2).

These holes will have no effect on the technical properties of the blade during use (such as an increase in noise**, chip build-up at the correction site, etc.).

This translates to precise cutting, longer blade life, reduced vibration and noise, and less wear and tear on your machine components.

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

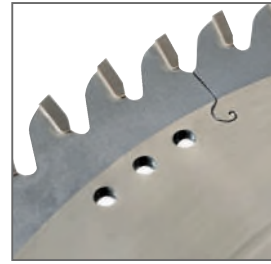
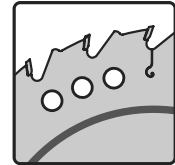


Fig. 1
Example of balancing holes.



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

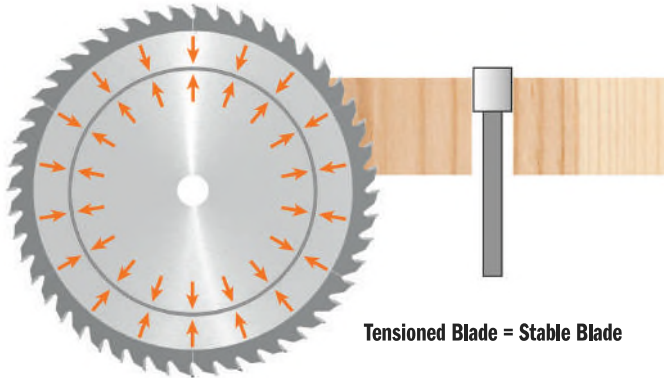
**CMT XTREME
BALANCING**



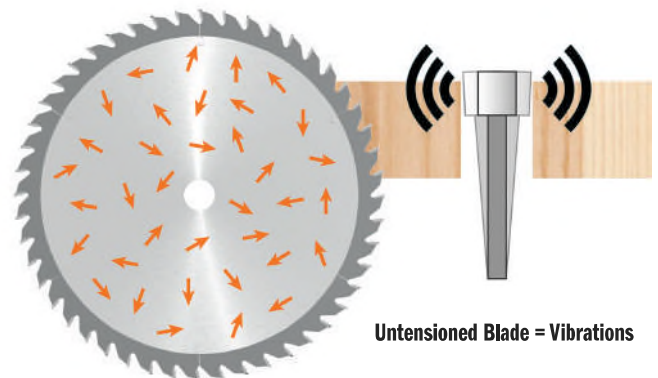
TENSIONING RINGS & FLATTING

To ensure maximum performance, flattening and plate tensioning processes are performed. Every single blade is subject to a flattening process in order to achieve the highest flatness tolerance. The blade body then undergoes tensioning in order to enhance stiffness and stability.

A well-marked and visible ring is applied to the blade body by means of compression and with a predetermined force linked to the intended application and working conditions of each blade.



Tensioned Blade = Stable Blade



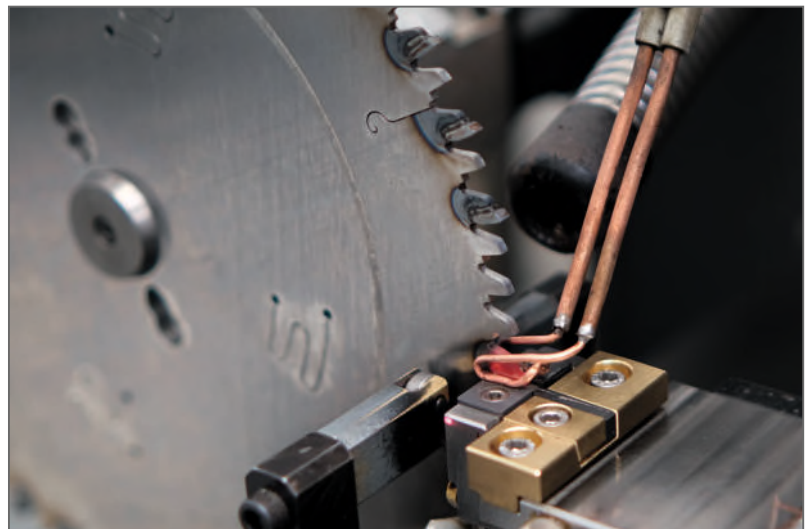
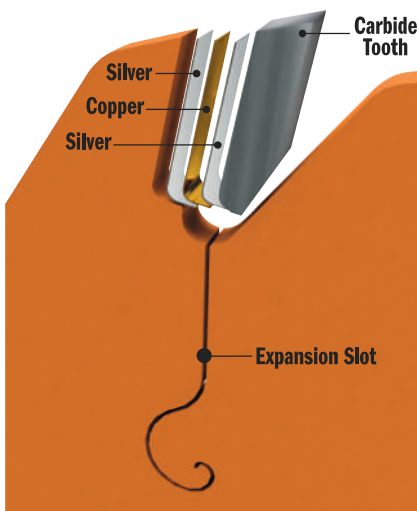
Untensioned Blade = Vibrations

CARBIDE TEETH

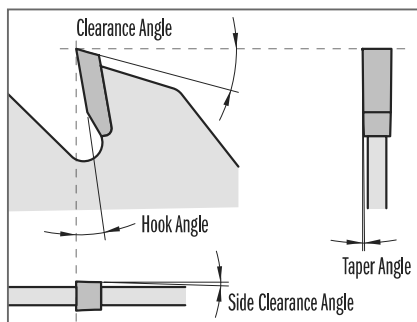
Tips require optimum quality carbide. Different applications call for different grades. Our Research and Development Team has evaluated and tested carbide grades and tracked their yield on performance both in house and in the field. We have access to the widest range in the world and only use top premium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

TRI-METAL BRAZING

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



SHARPENING & CUTTING ANGLES



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



COATING

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



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



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

LASER MARKING & SCREEN PRINTING

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



FINAL TESTING AND QUALITY CONTROL

Following design and manufacturing phases, each new model is tested to ensure maximum performance during the work phase. The entire production process is subject to meticulous quality controls using conventional and sophisticated measuring system.



NEW PACKAGING

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



HOW TO CHOOSE A BLADE IN THE NEW CMT CATALOGUE

1

WHAT'S THE MATERIAL YOU WANT TO CUT?

WOOD

NON-FERROUS

METAL & STEEL

MULTI MATERIALS

See table on page 5

2

WHAT'S THE APPLICATION?

- RIPPING
- RIPPING & CROSSCUT
- FINISHING
- FINE FINISHING
- ULTRA FINE FINISHING
- etc

See table on page 5

3

WHAT ARE THE PERFORMANCE EXPECTATIONS?



4

WHAT MACHINE ARE YOU USING?

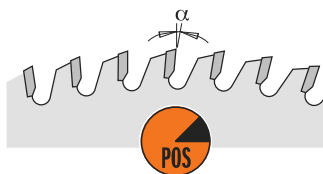
BASED ON YOUR MACHINE, CHOOSE THE APPROPRIATE BLADE:

- DIAMETER (D)
- BORE (B)

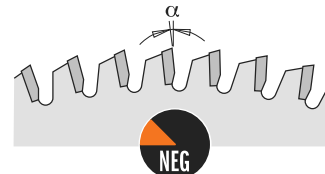
SUGGESTIONS FOR CHOOSING THE RIGHT BLADE:

HOOK ANGLE α

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



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



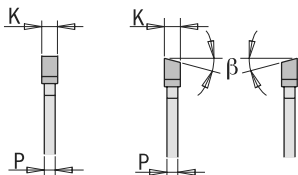
TEETH SHAPE

- Wood, Chipboard, MDF, Plywood

FLAT

ATB

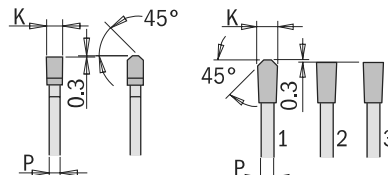
(Hi-ATB, ATB+SHEAR)



- Laminate, Chipboard, MDF, Plywood, Plastic

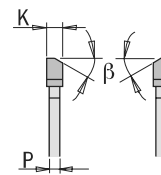
TCG

FFT



- Metals

FWF



- Special Application/Materials

HDF

FLAT+ATB

CO+FLAT

MTCG

MATB

HR

SUGGESTIONS FOR BLADE USE:

In order to achieve the best cut possible, that is without modifying the predetermined angle of entry/exit, it is important that the portion of the blade (**H**) which extends beyond the workpiece during the cut, be close to equal to the height of an entire tooth (approx. 8/10mm). To improve the finish, it is possible to make small adjustments by increasing or decreasing this height.

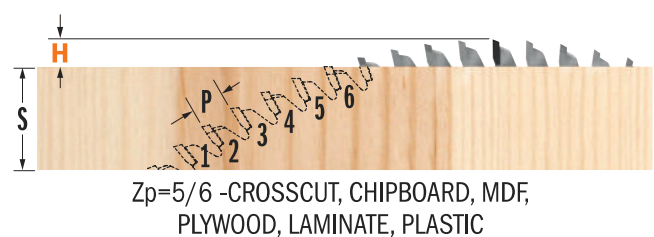
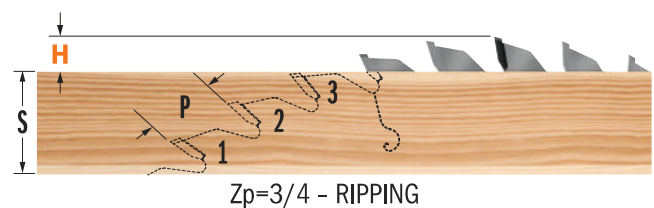
The number of teeth simultaneously engaged in cutting the material (**Teeth Cutting or Zp**) must be constant as the thickness of the material varies.

As with $Z_p < 3$, the cutting quality is not guaranteed.

With the same diameter, and when cutting thicker material, ensure to use a blade with less teeth (or with a greater Pitch **P**) or vice versa.

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

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



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

$$P = \frac{D \times 3,14}{Z}$$

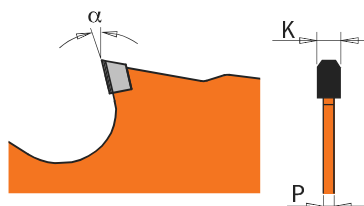
D=Blade Diameter (mm)
Z=N° of Teeth



MULTI-MATERIALS



236 ITK^{PLUS}



60X
LONGER LIFE
THAN CARBIDE

Machines



MINI CORDLESS CIRC. SAW



CORDLESS CIRCULAR SAW



CIRCULAR SAW



MITRE SAW



RADIAL ARM



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Materials



FIBRE CEMENT



PLASTERBOARD

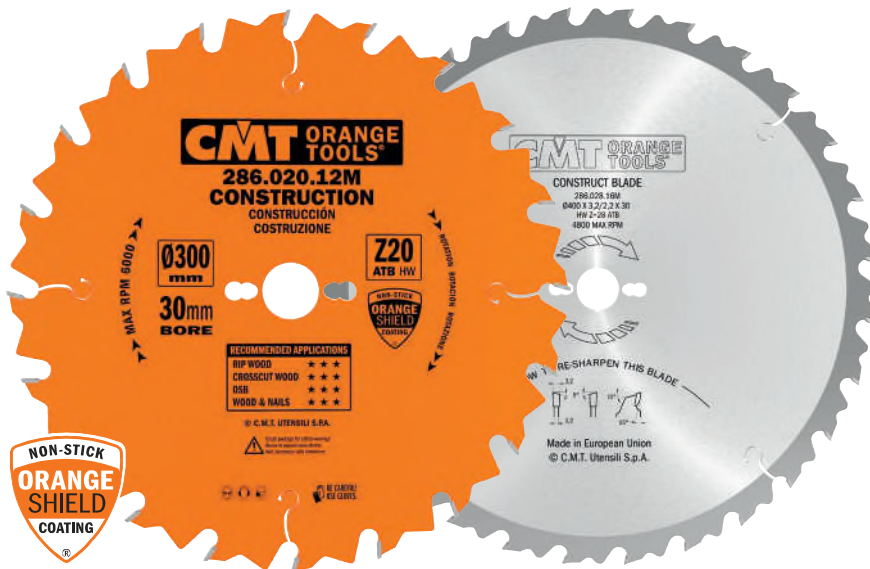


ETERNIT®

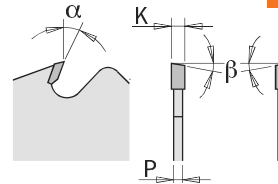
Ideal for:
SWISSPEARL®, FERMACELL®,
IVARPLANK®,
HARDIEPLANK®,
HARDIEPANEL®,
CORIAN®, DUROPLAST®,
FORMICA®

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
85 *	15	-	6	1,8	1,4	12°	TCG	10	236.085.06G
125 *	22,2	-	7	2,0	1,4	5°	TCG	10	236.125.07
160	20	2/6/32	4	2,4	1,8	12°	TCG	10	236.160.04H
160	20	2/6/32	10	2,4	1,8	5°	TCG	10	236.160.10H
165	20 (+15,87)	2/6/32	4	1,8	1,4	12°	TCG	10	236.165.04H
165	20 (+15,87)	2/6/32	10	1,8	1,4	5°	TCG	10	236.165.10H
180	20	2/6/32	4	2,4	1,8	12°	TCG	10	236.180.04H
190	30	2/7/42	4	2,4	1,8	12°	TCG	10	236.190.04M
190	30	2/7/42	12	2,4	1,8	12°	TCG	10	236.190.12M
210	30	2/7/42	12	2,4	1,8	12°	TCG	10	236.210.12M
216	30	2/7/42	14	2,4	1,8	12°	TCG	10	236.216.14M
230	30	2/7/42	4	2,4	1,8	12°	TCG	10	236.230.04M
250	30	COMBI3	16	2,4	1,8	12°	TCG	10	236.250.16M
300	30	COMBI3	20	2,4	1,8	12°	TCG	5	236.300.20M

*Non-Silent Blades



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CONSTRUCTION



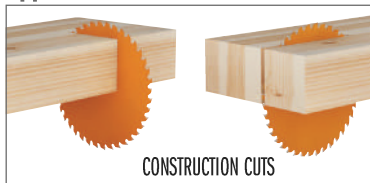
Images are not in scale with each other.

Machines



Blade diameter compatibility is contingent on machine type.

Applications



Materials



NON-STICK ORANGE SHIELD COATING®

D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	16	2,8	1,8	15°	5° ATB	5	286.016.10M
300	30	COMBI3	20	2,8	1,8	15°	5° ATB	5	286.020.12M
300*	30	COMBI3	48	3,2	2,2	15°	10° ATB	5	286.048.12M
315	30	COMBI3	24	3,2	2,2	15°	5° ATB	5	286.024.13M
350	30	COMBI3	24	3,2	2,2	15°	5° ATB	5	286.024.14M

*Without limiter

D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
400	30	COMBI3	28	3,2	2,2	15°	5° ATB	1	286.028.16M
450	30	2/10/60	32	3,8	2,8	15°	5° ATB	1	286.032.18M
500	30	2/10/60	36	3,8	2,8	15°	5° ATB	1	286.036.20M
550	30	2/10/60	40	4,2	3,2	15°	5° ATB	1	286.040.22M
600	30	2/10/60	40	4,2	3,2	15°	5° ATB	1	286.040.24M
700	30	2/10/60	46	4,4	3,2	15°	5° ATB	1	286.046.28M

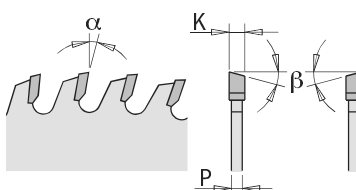
SHOP TIPS: Use our reduction ring from 30 to 25mm order n. 299.225.00 (for saw blades Ø250-300-315)
Use our reduction ring from 30 to 25mm order n. 299.228.00 (for saw blades Ø350 and larger)

K CONTRACTOR® CONSTRUCTION

PERFORMANCE

WOOD

Designed for construction, remodeling and DIY projects. These blades deliver performance at a very economical price.

**Materials****Applications****Machines**

For specific details regarding applications, please check blade label.

Blade diameter compatibility is contingent on machine type.

DESCRIPTION	PACK	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
Fine cut-off	CLAMSHELL	85	15		24	1,1	0,7	12°	5° ATB	10	K02403
Crosscut	10 PCS. BULK PACK	136	20		18	1,5	1,0	15°	15° ATB	30	K13618H-X10
Crosscut	10 PCS. BULK PACK	160	20	2/6/32	24	2,2	1,4	15°	15° ATB	30	K16024H-X10
Fine cut-off	10 PCS. BULK PACK	160	20	2/6/32	40	2,2	1,4	10°	15° ATB	30	K16040H-X10
Crosscut	10 PCS. BULK PACK	165	20	2/6/32	24	1,7	1,1	15°	15° ATB	30	K16524H-X10
Crosscut	10 PCS. BULK PACK	190	30	2/7/42	24	2,2	1,4	20°	10° ATB	30	K19024M-X10
Crosscut	10 PCS. BULK PACK	216	30	2/7/42	24	2,4	1,6	-5° Neg.	15° ATB	30	K21624M-X10
Fine cut-off	10 PCS. BULK PACK	216	30	2/7/42	48	2,4	1,6	-5° Neg.	15° ATB	30	K21648M-X10
Crosscut	5 PCS. BULK PACK	250	30	COMBI3	40	2,6	1,8	15°	10° ATB	20	K25040M-X05



Bulk Pack

3-pcs Clamshell Combo Pack

Ø160mm. Bore 20mm

DESCRIPTION	SET CONTAINS	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
Crosscut	K16024H (1 pc.)	160	20	2/6/32	24	2,2	1,4	15°	15° ATB	10	K160H-X03
Fine cut-off	K16040H (2 pcs.)	160	20	2/6/32	40	2,2	1,4	10°	15° ATB		

3-pcs Clamshell Combo Pack

Ø190mm. Bore 30mm

DESCRIPTION	SET CONTAINS	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
Crosscut	K19024M (2 pcs.)	190	30	2/7/42	24	2,2	1,4	20°	10° ATB	10	K190M-X03
Fine cut-off	K19040M (1 pc.)	190	30	2/7/42	40	2,2	1,4	15°	10° ATB		



Clamshell Combo Pack

3-pcs Clamshell Combo Pack

Ø216mm. Bore 30mm

DESCRIPTION	SET CONTAINS	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
Crosscut	K21624M (1 pc.)	216	30	2/7/42	24	2,4	1,6	-5° Neg.	15° ATB	10	K216M-X03
Fine cut-off	K21648M (2 pcs.)	216	30	2/7/42	48	2,4	1,6	-5° Neg.	15° ATB		

2-pcs Clamshell Combo Pack

Ø250mm. Bore 30mm

DESCRIPTION	SET CONTAINS	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
Rip	K25024M (1 pc.)	250	30	COMBI3	24	2,6	1,8	20°	10° ATB	10	K250M-X02
Crosscut	K25040M (1 pc.)	250	30	COMBI3	40	2,6	1,8	15°	10° ATB		

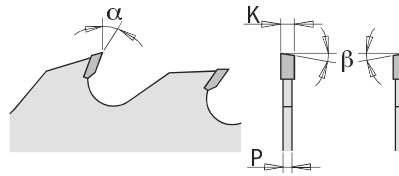
2-pcs Clamshell Combo Pack

Ø305mm. Bore 30mm

DESCRIPTION	SET CONTAINS	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
Crosscut	K30540M (1 pc.)	305	30	COMBI3	40	2,8	2,0	-5° Neg.	10° ATB	5	K305M-X02
Fine cut-off	K30560M (1 pc.)	305	30	COMBI3	60	2,8	2,0	-5° Neg.	10° ATB		



279 INDUSTRIAL



TECHNICAL DETAILS:

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



WOOD

Machines



MULTI-RIP



MOULDERS

Blade diameter compatibility is contingent on machine type.

Applications



MULTI-RIP



Materials



HARDWOOD

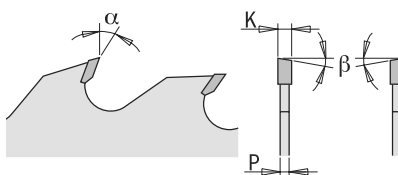


SOFTWOOD

D mm	B mm	KEY WAY 	PIN HOLE 	Z+V	K mm	P mm	T ₁ mm	α	β		ORDER NO.
250	30		COMBI3	20+4	3,2	2,2	65	18°	10° ATB	1	279.020.10M
250	70	21 x 5	-	20+4	3,2	2,2	65	18°	10° ATB	1	279.020.10V
250	80	13 x 5	-	20+4	3,2	2,2	65	18°	10° ATB	1	279.020.10W
300	30		COMBI3	24+4	3,2	2,2	80	18°	10° ATB	1	279.024.12M
300	60	21 x 5	-	24+4	3,2	2,2	80	18°	10° ATB	1	279.024.12U
300	70	21 x 5	-	24+4	3,2	2,2	80	18°	10° ATB	1	279.024.12V
300	80	13 x 5	-	24+4	3,2	2,2	80	18°	10° ATB	1	279.024.12W
350	30		COMBI3	28+4	3,5	2,5	105	18°	10° ATB	1	279.028.14M
350	60	21 x 5	-	28+4	3,5	2,5	105	18°	10° ATB	1	279.028.14U
350	70	21 x 5	-	28+4	3,5	2,5	105	18°	10° ATB	1	279.028.14V
350	80	14 x 5	-	28+4	3,5	2,5	105	18°	10° ATB	1	279.028.14W
400	30		COMBI3	28+6	4,0	2,8	120	18°	10° ATB	1	279.028.16M
400	70	21 x 5	-	28+6	4,0	2,8	120	18°	10° ATB	1	279.028.16V



280 INDUSTRIAL



TECHNICAL DETAILS:

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

Thin Kerf minimises materials wastes.



WOOD

Machines



MULTI-RIP



MOULDERS

Blade diameter compatibility is contingent on machine type.

Applications



MULTI-RIP



Materials



HARDWOOD

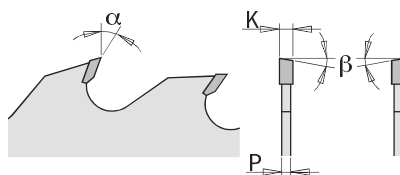


SOFTWOOD

D mm	B mm	KEY WAY 		Z+V	K mm	P mm	T ₁ mm	α	β		ORDER NO.
180	40			21+3	2,5	1,8	30	18°	FLAT	1	280.021.07S
200	40			21+3	2,5	1,8	35	18°	FLAT	1	280.021.08S
250	70	21 x 5		20+4	2,7	1,8	50	18°	10° ATB	1	280.020.10V
250	80	13 x 5		20+4	2,7	1,8	50	18°	10° ATB	1	280.020.10W
300	70	21 x 5		24+4	2,7	1,8	60	18°	10° ATB	1	280.024.12V
300	80	13 x 5		24+4	2,7	1,8	60	18°	10° ATB	1	280.024.12W



277 INDUSTRIAL



WOOD

TECHNICAL DETAILS:

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

Mounted on the sides of gang rip saws, these act as shoulder saw blades and ensure stability, reducing vibration under extreme work load.

Machines



MULTI-RIP

Applications



MULTI-RIP



Materials



HARDWOOD

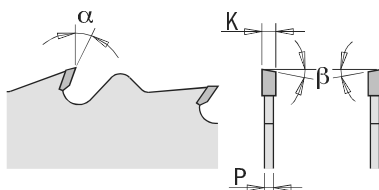


SOFTWOOD

D mm	B mm	KEY WAY 	PIN HOLE 	Z+V	K mm	P mm	T ₁ mm	α	β		ORDER NO.
300	30		COMBI3	24+4	4,0	2,8	80	18°	10° ATB	1	277.024.12M
300	70	21 x 5	-	24+4	4,0	2,8	80	18°	10° ATB	1	277.024.12V
300	80	13 x 5	-	24+4	4,0	2,8	80	18°	10° ATB	1	277.024.12W
350	30		COMBI3	24+6	4,2	2,8	105	18°	10° ATB	1	277.024.14M
350	70	21 x 5	-	24+6	4,2	2,8	105	18°	10° ATB	1	277.024.14V



278 INDUSTRIAL



PERFORMANCE

WOOD

Machines



SQUARING



MULTI-RIP

Blade diameter compatibility is contingent on machine type.

Applications



MULTI-RIP



RIPS

Materials

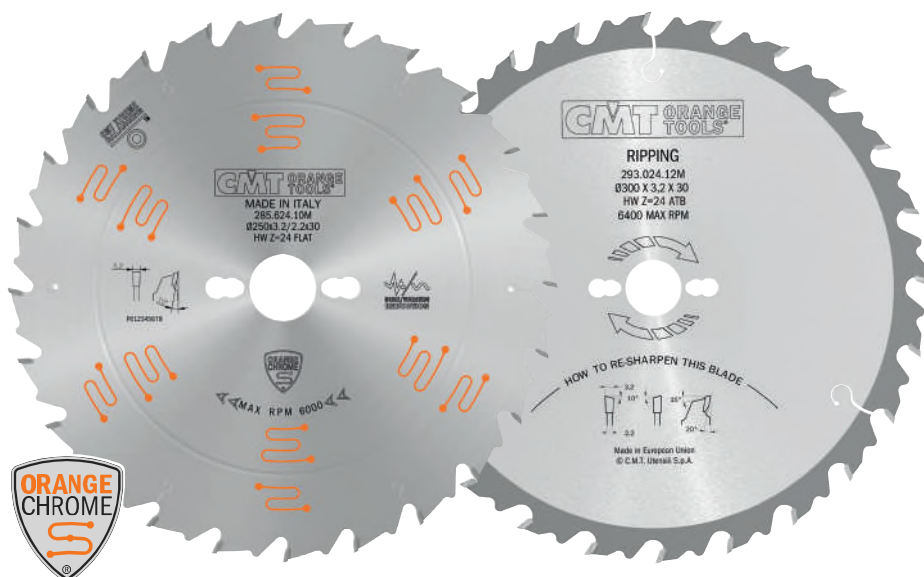


HARDWOOD



SOFTWOOD

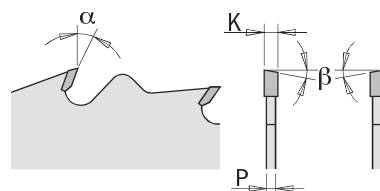
D mm	B mm	KEY WAY 	PIN HOLE 	Z	K mm	P mm		α	β		ORDER NO.
300	30		COMBI3	28	3,2	2,2		18°	10° ATB	1	278.028.12M
300	70	21 x 5	-	28	3,2	2,2		18°	10° ATB	1	278.028.12V
350	30		COMBI3	36	3,5	2,5		18°	10° ATB	1	278.036.14M
350	70	21 x 5	-	36	3,5	2,5		18°	10° ATB	1	278.036.14V



285-293



WOOD



Images are not in scale with each other.



Machines



MITRE SAW



RADIAL ARM



TABLE SAW



SQUARING

Blade diameter compatibility is contingent on machine type.

Applications



RIPS

Materials



HARDWOOD



SOFTWOOD

285 ORANGE CHROME®



PERFORMANCE

D mm	B mm	PIN HOLE ⊕⊕⊕	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	24	3,2	2,2	10°	FLAT	5	285.624.10M

285-293 INDUSTRIAL

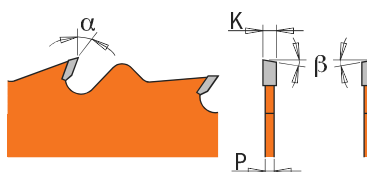


PERFORMANCE

D mm	B mm	PIN HOLE ⊕⊕⊕	Z	K mm	P mm	α	β		ORDER NO.
300	30	COMBI3	24	3,2	2,2	20°	10° ATB	1	293.024.12M
300	35	-	24	3,2	2,2	20°	10° ATB	1	293.024.12R
305	30	2/10/60	28	2,8	1,8	20°	10° ATB	1	293.028.22M
315	30	COMBI3	28	3,2	2,2	20°	10° ATB	1	293.028.12M
315	30	COMBI3	36	3,2	2,2	15°	5° ATB	1	285.036.13M
350	30	COMBI3	28	3,5	2,5	20°	10° ATB	1	293.028.14M
350	35	-	28	3,5	2,5	20°	10° ATB	1	293.028.14R
400	30	COMBI3	36	3,5	2,5	20°	10° ATB	1	285.036.16M
450	30	COMBI3	36	3,8	2,8	20°	10° ATB	1	285.036.18M
500	30	COMBI3	44	4,0	2,8	20°	10° ATB	1	285.044.20M



290 INDUSTRIAL



WOOD

Machines



Blade diameter compatibility is contingent on machine type.

Applications



Materials



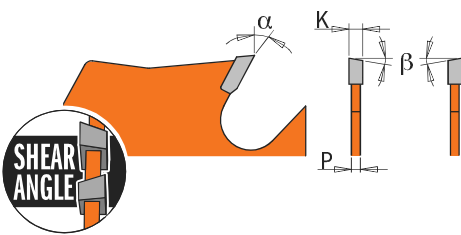
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
150	20	-	12	2,4	1,4	20°	10° ATB	10	290.150.12H
160	16	-	12	2,2	1,6	20°	10° ATB	5	290.160.12E ■
160	20 (+16)	2/6/32	12	2,2	1,6	20°	10° ATB	10	290.160.12H ●
180	30	2/7/42	12	2,6	1,6	20°	10° ATB	10	290.180.12M
190	16	2/6/32	12	2,6	1,6	20°	10° ATB	5	290.190.12E ■
190	20	2/6/32	12	2,6	1,6	20°	10° ATB	5	290.190.12H ■
190	30 (+20+16)	2/7/42	12	2,6	1,6	20°	10° ATB	10	290.190.12M
200	30	2/7/42	24	2,8	1,8	20°	10° ATB	10	290.200.24M
210	30	2/7/42	24	2,8	1,8	20°	10° ATB	10	290.210.24M ●
216	30	2/7/42	24	2,8	1,8	-5° Neg.	15° ATB	10	290.216.24M ●
220	30	2/7/42	24	2,8	1,8	20°	10° ATB	10	290.220.24M
230	30	2/7/42	24	2,8	1,8	20°	10° ATB	10	290.230.24M ●
235	25	-	24	2,8	1,8	20°	10° ATB	5	290.235.24L ■
235	30 (+25)	2/7/42	24	2,8	1,8	20°	10° ATB	10	290.235.24M
240	30	2/7/42	24	2,8	1,8	20°	10° ATB	10	290.240.24M
250	30	COMBI3	24	2,8	1,8	20°	10° ATB	5	290.250.24M
260	30	COMBI3	28	2,8	1,8	20°	10° ATB	5	290.260.28M ●
270	30	COMBI3	28	2,8	1,8	20°	10° ATB	5	290.270.28M

● Ideal for FESTOOL®

■ Until stock last



271 ITK PLUS®



HW   

★ ★ ★ ★ ★
PERFORMANCE

WOOD

Machines



MITRE SAW



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications



RIP

Materials



WOOD



OSB



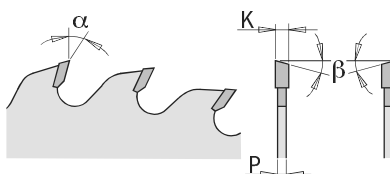
PLYWOOD

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	24	2,4	1,6	20°	10° ATB + 8° Shear	10	271.250.24M
300	30	COMBI3	24	2,6	1,8	22°	10° ATB + 8° Shear	5	271.300.24M

Ripping & Crosscut [General Purpose]



285.6 ORANGE CHROME®



WOOD



Machines



Blade diameter compatibility is contingent on machine type.

Applications

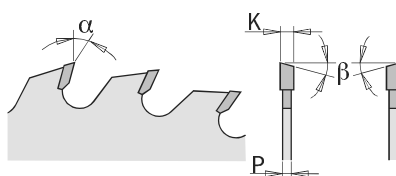


Materials



D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	40	3,2	2,2	15°	10° ATB	5	285.640.10M
300	30	COMBI3	48	3,2	2,2	15°	10° ATB	5	285.648.12M
350	30	COMBI3	54	3,5	2,5	15°	10° ATB	3	285.654.14M
400	30	COMBI3	60	3,5	2,5	10°	15° ATB	2	285.660.16M

285-294 INDUSTRIAL



WOOD



Machines



MITRE SAW



RADIAL ARM



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications



RIPS



CROSS

Materials



HARDWOOD



SOFTWOOD



PLYWOOD



MELAMINE

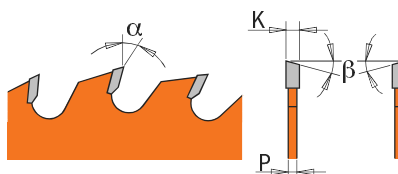
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250*	20	-	40	3,2	2,2	15°	10° ATB	1	285.040.10H
250	30	COMBI3	40	3,2	2,2	15°	10° ATB	1	285.040.10M
250	35	-	40	3,2	2,2	15°	10° ATB	1	285.040.10R
250	30	COMBI3	48	3,2	2,2	15°	10° ATB	1	285.048.10M
254	30	COMBI3	48	2,4	1,8	-5° Neg.	15° ATB	1	294.048.10M
275	20	-	42	3,2	2,2	15°	10° ATB	1	285.042.11H
300	30	COMBI3	36	3,2	2,2	15°	10° ATB	1	285.036.12M
300*	20	COMBI3	48	3,2	2,2	15°	10° ATB	1	285.048.12H
300	30	COMBI3	48	3,2	2,2	15°	10° ATB	1	285.048.12M
300	35	-	48	3,2	2,2	15°	10° ATB	1	285.048.12R
305	30	2/10/60 + 2/7/42	54	2,8	1,8	-5° Neg.	15° ATB	1	294.054.22M
315*	30	COMBI3	54	3,2	2,2	15°	10° ATB	1	294.054.12M
350	30	COMBI3	54	3,5	2,5	15°	10° ATB	1	285.054.14M
350	35	-	54	3,5	2,5	15°	10° ATB	1	285.054.14R
400	30	COMBI3	48	3,5	2,5	20°	10° ATB	1	285.048.16M
450	30	COMBI3	54	3,8	2,8	15°	15° ATB	1	285.054.18M
500	30	2/10/60	60	3,8	2,8	15°	15° ATB	1	285.060.20M
550	30	2/10/60	60	4,2	3,2	10°	15° ATB	1	285.060.22M
600	30	2/10/60	66	4,2	3,2	10°	15° ATB	1	285.066.24M
700	30	2/10/60	72	4,4	3,2	10°	15° ATB	1	285.072.28M

*Non-Silent Blades

285-291 INDUSTRIAL



WOOD



Machines



CIRCULAR SAW



MITRE SAW



SLIDE MITRE SAW



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications



RIPS



CROSS

Materials



WOOD



OSB



PLYWOOD

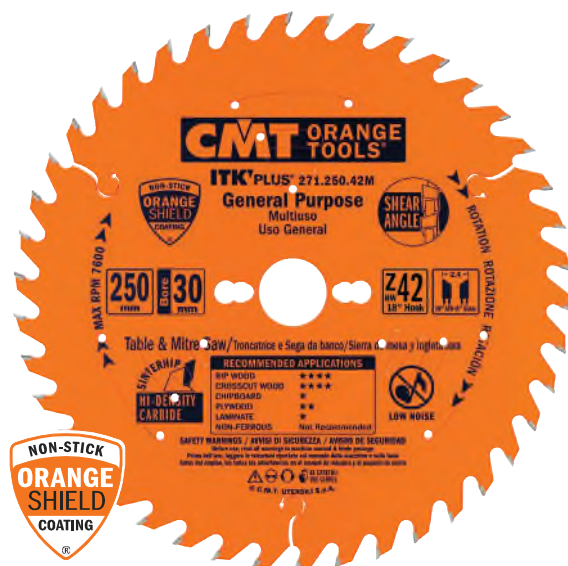
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β	APPLICATIONS		ORDER NO.
120	20	2/5,5/30	18	1,8	1,2	15°	15° ATB	General Purpose	10	291.120.18H
125	20	-	20	2,4	1,4	15°	15° ATB	General Purpose	10	291.125.20H
130	20	-	20	2,4	1,4	15°	15° ATB	General Purpose	10	291.130.20H
140	20	-	20	2,4	1,4	15°	15° ATB	General Purpose	10	291.140.20H
150	16	-	24	2,4	1,4	15°	15° ATB	General Purpose	5	291.150.24E ■
150	20(+16)	-	24	2,4	1,4	15°	15° ATB	General Purpose	10	291.150.24H
160	20	2/6/32	24	2,2	1,6	15°	15° ATB	General Purpose	10	291.160.24H ●
160	20	2/6/32	28	2,2	1,6	15°	10° ATB	General Purpose	10	285.160.28H
160	30(+16)	2/7/42	24	2,2	1,6	15°	15° ATB	General Purpose	10	291.160.24M
165	20	2/6/32	24	2,2	1,6	15°	15° ATB	General Purpose	10	291.165.24H
165	30	2/7/42	24	2,6	1,6	15°	15° ATB	General Purpose	10	291.165.24M
170	30	2/7/42	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.170.24M
180	20	2/6/32	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.180.24H
180	30	2/7/42	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.180.24M
184	16	-	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.184.24E
184	30	-	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.184.24M
190	16	2/6/32	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.190.24E
190	20	2/6/32	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.190.24H
190	30	2/7/42	24	2,6	1,6	20°	10° ATB	General Purpose	10	291.190.24M
190	20 (FESTOOL® FF)	Key 5/7/2,5	32	2,6	1,8	10°	10° ATB	General Purpose	10	291.190.32FF ●
200	30	2/7/42	36	2,8	1,8	15°	15° ATB	General Purpose	10	291.200.36M
200	30	COMBI3	36	3,2	2,2	15°	10° ATB	General Purpose	10	285.036.08M
210	25	-	36	2,8	1,8	15°	15° ATB	General Purpose	5	291.210.36L ■
210	30	2/7/42	36	2,8	1,8	15°	15° ATB	General Purpose	10	291.210.36M ●
216	30	2/7/42	48	2,8	1,8	-5° Neg.	15° ATB	Finish	10	291.216.48M ●
220	30	2/7/42	36	2,8	1,8	15°	15° ATB	General Purpose	10	291.220.36M
225	30	2/7/42	36	2,8	1,8	20°	15° ATB	General Purpose	10	291.225.36M ●
230	30	2/7/42	36	2,8	1,8	15°	15° ATB	General Purpose	10	291.230.36M ●
235	25	-	36	2,8	1,8	15°	15° ATB	General Purpose	5	291.235.36L ■
235	30	2/7/42	36	2,8	1,8	15°	15° ATB	General Purpose	10	291.235.36M
240	30	2/7/42	36	2,8	1,8	15°	15° ATB	General Purpose	10	291.240.36M
260	30	COMBI3	48	2,8	1,8	15°	10° ATB	General Purpose	5	285.048.11M ●
270	30	COMBI3	42	2,8	1,8	15°	10° ATB	General Purpose	5	291.270.42M

● Ideal for FESTOOL®

■ Until stock last

Ripping & Crosscut [General Purpose] - THIN KERF

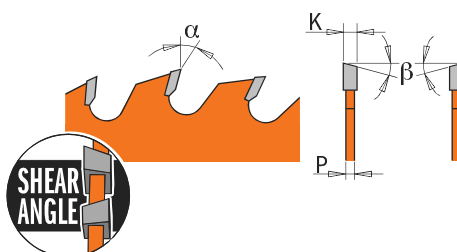
CMT ORANGE TOOLS®



271 ITK'PLUS®



WOOD

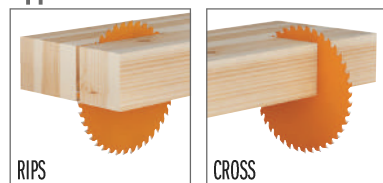


Machines



Blade diameter compatibility is contingent on machine type.

Applications



Materials



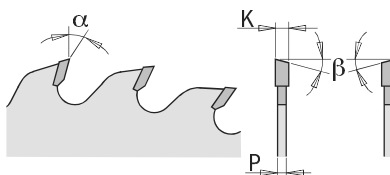
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
136	20 (+10)	-	18	1,5	1,0	20°	10° ATB + 8° Shear	10	271.136.18H
140	20	2/6/32,5	24	1,8	1,2	15°	15° ATB + 8° Shear	10	271.140.24H
150	20 (+16)	-	24	1,5	1,0	18°	10° ATB + 8° Shear	10	271.150.24H
160	20 (+16)	2/6/32	24	1,8	1,2	18°	10° ATB + 8° Shear	10	271.160.24H
165	20 (+15,87)	2/6/32	24	1,7	1,1	18°	10° ATB + 8° Shear	10	271.165.24H
165	30	2/7/42	24	1,7	1,1	18°	10° ATB + 8° Shear	10	271.165.24M
184	20 (+16+15,87)	2/7/42	24	1,7	1,1	20°	10° ATB + 8° Shear	10	271.184.24H
184	30	2/7/42	24	1,7	1,1	20°	10° ATB + 8° Shear	10	271.184.24M
190	30 (+20+16)	2/7/42	24	1,7	1,1	20°	10° ATB + 8° Shear	10	271.190.24M
200	30	2/7/42	36	1,8	1,2	15°	10° ATB + 8° Shear	10	271.200.36M
210	30 (+25)	2/7/42	24	1,8	1,2	20°	10° ATB + 8° Shear	10	271.210.24M
210	30 (+25)	2/7/42	36	1,8	1,2	15°	10° ATB + 8° Shear	10	271.210.36M
216	30	2/7/42	36	1,8	1,2	-5° Neg.	10° ATB + 8° Shear	10	271.216.36M
235	25	-	36	1,7	1,2	20°	1 FLAT+2/15° ATB	10	271.235.36L ■
235	30 (+25)	2/7/42	36	2,4	1,6	18°	10° ATB + 8° Shear	10	271.235.36M
250	30	COMBI3	42	2,4	1,6	18°	10° ATB + 8° Shear	10	271.250.42M
300	30	COMBI3	48	2,6	1,8	18°	10° ATB + 8° Shear	5	271.300.48M
305	30	COMBI3	48	2,6	1,8	-5° Neg.	10° ATB	5	271.305.48M

■ Until stock last

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285 ORANGE CHROME®



WOOD



Machines



CIRCULAR SAW



MITRE SAW



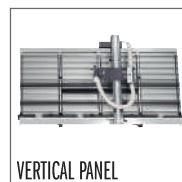
SLIDE MITRE SAW



RADIAL ARM



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS

Materials



HARDWOOD



PLYWOOD



MELAMINE



LAMINATE



CHIPBOARD



MDF

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

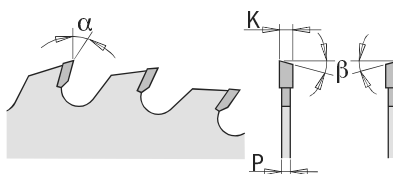
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
216	30	2/7/42	48	2,3	1,6	-5° Neg.	15° ATB	5	285.816.48M ●
250	30	COMBI3	60	3,2	2,2	10°	15° ATB	5	285.660.10M
260	30	COMBI3	60	2,5	1,8	-5° Neg.	10° ATB	5	285.860.11M ●
300	30	COMBI3	72	3,2	2,2	10°	15° ATB	5	285.672.12M
350	30	COMBI3	84	3,5	2,5	10°	15° ATB	3	285.684.14M
400	30	COMBI3	96	3,5	2,5	10°	15° ATB	2	285.696.16M

● Ideal for FESTOOL®

285-294-295 INDUSTRIAL



WOOD



Machines



MITRE SAW



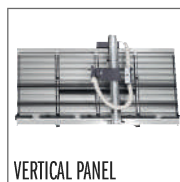
SLIDE MITRE SAW



RADIAL ARM



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS

Materials



HARDWOOD



PLYWOOD



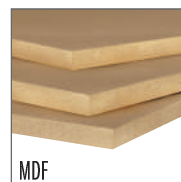
MELAMINE



LAMINATE



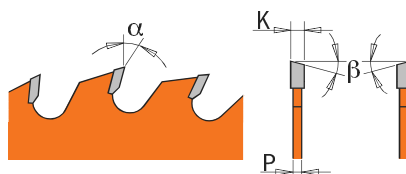
CHIPBOARD



MDF

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	60	3,2	2,2	10°	15° ATB	1	285.060.10M
250	35	-	60	3,2	2,2	10°	15° ATB	1	285.060.10R
254	30	COMBI3	60	2,4	1,8	-5° Neg.	15° ATB	1	294.060.10M
280*	30	COMBI3	64	2,8	1,8	10°	15° ATB	1	295.064.11M
300	30	COMBI3	60	3,2	2,2	15°	10° ATB	1	285.060.12M
300	30	COMBI3	72	3,2	2,2	10°	15° ATB	1	285.072.12M
300	35	-	72	3,2	2,2	10°	15° ATB	1	285.072.12R
305	30	COMBI3	72	3,2	2,2	10°	15° ATB	1	285.072.22M
305	30	COMBI3	72	3,2	2,2	-5° Neg.	15° ATB	1	294.072.22M
315	30	COMBI3	72	3,2	2,2	15°	10° ATB	1	285.072.13M
350	30	COMBI3	72	3,5	2,5	15°	10° ATB	1	285.072.14M
350	30	COMBI3	84	3,5	2,5	10°	15° ATB	1	285.084.14M
350	35	-	84	3,5	2,5	10°	15° ATB	1	285.084.14R
400	30	COMBI3	60	3,5	2,5	10°	15° ATB	1	285.060.16M
450	30	COMBI3	66	3,8	2,8	10°	15° ATB	1	285.066.18M
500	30	2/10/60	72	3,8	2,8	10°	15° ATB	1	285.072.20M
550	30	2/10/60	96	4,2	3,2	10°	15° ATB	1	285.096.22M

*Non-Silent Blades

**285-292-294 INDUSTRIAL****WOOD****Machines**

CIRCULAR SAW



MITRE SAW

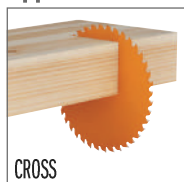


SLIDE MITRE SAW



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications

CROSS

Materials

WOOD



OSB



PLYWOOD



MELAMINE



LAMINATE

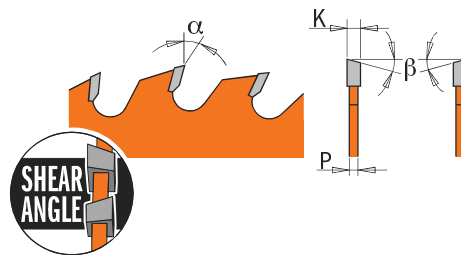
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β	APPLICATIONS		ORDER NO.
120	20	2/5,5/30	40	1,8	1,2	10°	15° ATB	Fine Finish	10	292.120.40H
125	20	-	36	2,4	1,4	15°	15° ATB	Fine Finish	10	292.125.36H
130	20	-	36	2,4	1,4	15°	15° ATB	Fine Finish	10	292.130.36H
140	20	-	36	2,4	1,4	15°	15° ATB	Fine Finish	10	292.140.36H
150	20	-	40	2,4	1,4	15°	15° ATB	Fine Finish	10	292.150.40H
150	30	2/7/42	48	3,2	2,2	5°	15° ATB	Fine Finish	10	285.048.06M
160	20	2/6/32	40	2,2	1,6	10°	15° ATB	Finish	10	292.160.40H ●
160	30	2/7/42	40	2,2	1,6	10°	15° ATB	Finish	10	292.160.40M
160	20	2/6/32	48	2,2	1,6	5°	15° ATB	Fine Finish	10	285.160.48H ●
165	20	2/6/32	40	2,2	1,6	10°	15° ATB	Finish	10	292.165.40H
165	30	2/7/42	40	2,6	1,6	10°	15° ATB	Finish	10	292.165.40M
170	30	2/7/42	40	2,6	1,6	15°	15° ATB	Finish	10	292.170.40M
180	20	2/6/32	40	2,6	1,6	15°	15° ATB	Finish	10	292.180.40H
180	30	2/7/42	40	2,6	1,6	15°	15° ATB	Finish	10	292.180.40M
180	30	2/7/42	56	3,2	2,2	5°	15° ATB	Fine Finish	10	285.056.07M
184	16	-	40	2,6	1,6	15°	15° ATB	Finish	10	292.184.40E
184	30	-	40	2,6	1,6	15°	15° ATB	Finish	10	292.184.40M
190	20 (+16)	2/6/32	40	2,6	1,6	15°	15° ATB	Finish	10	292.190.40H
190	30	2/7/42	40	2,6	1,6	15°	15° ATB	Finish	10	292.190.40M
190	20 (FESTOOL® FF)	Key 5/7/2,5	48	2,4	1,8	10°	15° ATB	Fine Finish	10	292.190.48FF ●
200	30	2/7/42	48	2,8	1,8	15°	15° ATB	Finish	10	292.200.48M
200	30	COMBI3	48	3,2	2,2	15°	15° ATB	Finish	10	285.048.08M
210	25	-	48	2,8	1,8	15°	15° ATB	Finish	5	292.210.48L ■
210	30	2/7/42	48	2,8	1,8	15°	15° ATB	Finish	10	292.210.48M ●
216	30	2/7/42	64	2,8	1,8	-5° Neg.	15° ATB	Fine Finish	10	292.216.64M ●
220	30	2/7/42	48	2,8	1,8	15°	15° ATB	Finish	10	292.220.48M
225	30	2/7/42	48	2,8	1,8	10°	15° ATB	Finish	10	292.225.48M ●
230	30	2/7/42	48	2,8	1,8	15°	15° ATB	Finish	10	292.230.48M ●
235	25	-	48	2,8	1,8	15°	15° ATB	Finish	5	292.235.48L ■
235	30	2/7/42	48	2,8	1,8	15°	15° ATB	Finish	10	292.235.48M
240	30	2/7/42	48	2,8	1,8	15°	15° ATB	Finish	10	292.240.48M
260	30	COMBI3	60	2,8	1,8	10°	15° ATB	Finish	5	285.060.11M ●
260	30	COMBI3	60	2,5	1,8	-5° Neg.	15° ATB	Finish	5	294.060.11M ●

● Ideal for FESTOOL®

■ Until stock last



272 ITK PLUS®



WOOD

Machines



MINI CORDLESS CIRC. SAW



CORDLESS CIRCULAR SAW



CIRCULAR SAW



MITRE SAW



SLIDE MITRE SAW



RADIAL ARM



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications



CROSS

Materials



WOOD



OSB



PLYWOOD



MELAMINE



LAMINATE

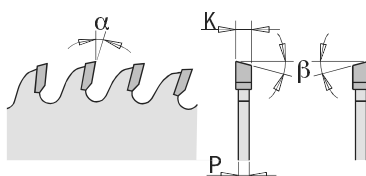
	D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
new	115	9,5	-	24	1,5	1,0	20°	10° ATB + 8° Shear	10	272.115.24
	136	20 (+10)	-	36	1,5	1,0	18°	10° ATB + 8° Shear	10	272.136.36H
new	140	20	2/6/32,5	42	1,8	1,2	5°	15° ATB + 8° Shear	10	272.140.42H
	150	20 (+16)	-	40	1,5	1,0	16°	10° ATB + 8° Shear	10	272.150.40H
	160	20 (+16)	2/6/32	40	1,8	1,2	16°	10° ATB + 8° Shear	10	272.160.40H
	165	20 (+15,87)	2/6/32	36	1,7	1,1	20°	10° ATB + 8° Shear	10	272.165.36H
	184	20 (+16+15,87)	2/7/42	40	1,7	1,1	18°	10° ATB + 8° Shear	10	272.184.40H
	184	30	2/7/42	40	1,7	1,1	18°	10° ATB + 8° Shear	10	272.184.40M
	190	30 (+20+16)	2/7/42	42	1,7	1,1	18°	10° ATB + 8° Shear	10	272.190.42M
	200	30	2/7/42	48	1,8	1,2	15°	10° ATB + 8° Shear	10	272.200.48M
	210	30 (+25)	2/7/42	48	1,8	1,2	15°	10° ATB + 8° Shear	10	272.210.48M
	216	30	2/7/42	48	1,8	1,2	-5° Neg.	10° ATB + 8° Shear	10	272.216.48M
	235	30 (+25)	2/7/42	48	2,4	1,6	18°	10° ATB + 8° Shear	10	272.235.48M
	250	30	COMBI3	60	2,4	1,6	15°	10° ATB + 8° Shear	10	272.250.60M
	300	30	COMBI3	72	2,6	1,8	15°	10° ATB + 8° Shear	5	272.300.72M
	305	30	COMBI3	72	2,6	1,8	-5° Neg.	10° ATB	5	272.305.72M



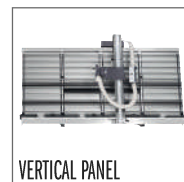
285 ORANGE CHROME®



WOOD



Machines

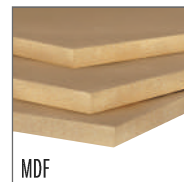


Blade diameter compatibility is contingent on machine type.

Applications



Materials

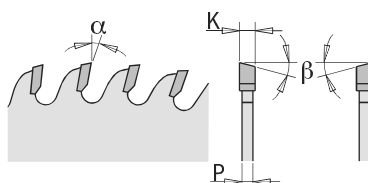


For specific details regarding suggested materials, please check blade label.

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	48	2,2	1,6	5°	12° ATB	5	285.760.48H ●
190	20 (FESTOOL® FF)	-	48	2,4	1,8	8°	15° ATB	5	285.790.48FF ●
216	30	2/7/42	60	2,3	1,6	-5° Neg.	15° ATB	5	285.816.60M ●
250	30	COMBI3	80	3,2	2,2	5°	15° ATB	5	285.680.10M
300	30	COMBI3	96	3,2	2,2	5°	15° ATB	3	285.696.12M
350	30	COMBI3	108	3,5	2,5	5°	15° ATB	2	285.708.14M

● Ideal for FESTOOL®

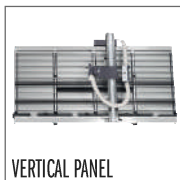
285 INDUSTRIAL



WOOD

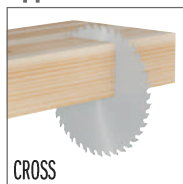


Machines

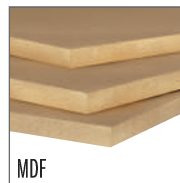


Blade diameter compatibility is contingent on machine type.

Applications



Materials

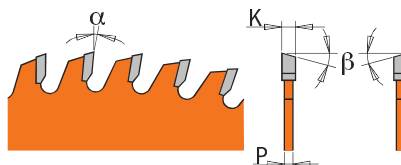
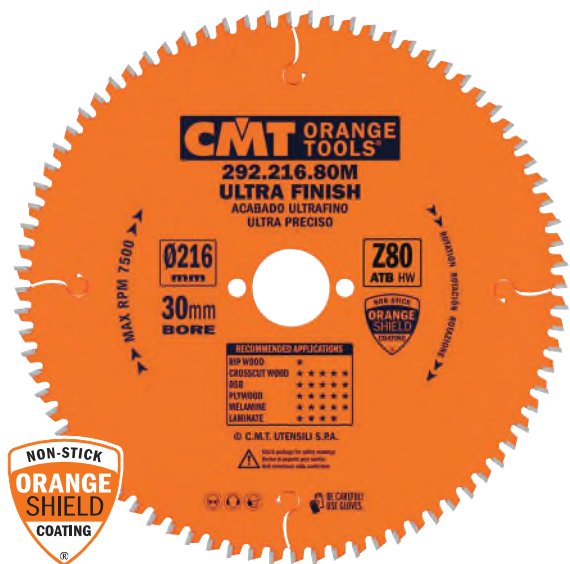


D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	3,2	2,2	5°	15° ATB	1	285.080.10M
250	35	-	80	3,2	2,2	5°	15° ATB	1	285.080.10R
300	30	COMBI3	96	3,2	2,2	5°	15° ATB	1	285.096.12M
300	35	-	96	3,2	2,2	5°	15° ATB	1	285.096.12R
350	30	COMBI3	108	3,5	2,5	5°	15° ATB	1	285.108.14M
350	35	-	108	3,5	2,5	5°	15° ATB	1	285.108.14R
400	30	COMBI3	96	3,5	2,5	10°	15° ATB	1	285.096.16M
400	30	COMBI3	120	3,5	2,5	10°	15° ATB	1	285.120.16M

285-292-294 INDUSTRIAL



WOOD

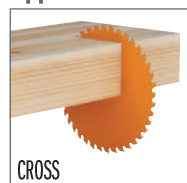


Machines



Blade diameter compatibility is contingent on machine type.

Applications



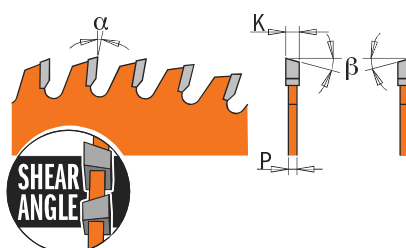
Materials



D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β			ORDER NO.
160	20	2/6/32	56	2,2	1,6	15°	15° ATB		10	292.160.56H ●
165	20	2/6/32	56	2,2	1,6	15°	15° ATB		10	292.165.56H
190	30	2/7/42	64	2,6	1,6	15°	15° ATB		10	292.190.64M
200	30	COMBI3	64	3,2	2,2	5°	15° ATB		10	285.064.08M
210	30	2/7/42	64	2,8	1,8	15°	15° ATB		10	292.210.64M ●
216	30	2/7/42	80	2,8	1,8	-5° Neg.	15° ATB		10	292.216.80M ●
230	30	2/7/42 + 2/10/60	64	2,8	1,8	15°	15° ATB		10	292.230.64M ●
260	30	COMBI3	80	2,5	1,8	-5° Neg.	15° ATB		5	294.080.11M ●

● Ideal for FESTOOL®

273 ITK^{PLUS}



WOOD

Machines



CORDLESS CIRCULAR SAW



CIRCULAR SAW



MITRE SAW



SLIDE MITRE SAW



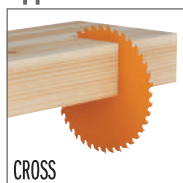
RADIAL ARM



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications



Materials



PLYWOOD



MELAMINE



LAMINATE

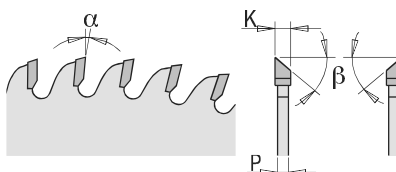
For specific details regarding suggested materials, please check blade label.

	D mm	B mm	PIN HOLE ⊕⊗	Z	K mm	P mm	α	β		ORDER NO.
new	50	10	-	20	1,1	0,8	15°	10° ATB	10	273.050.20D ●
new	80	10	-	36	1,6	1,0	15°	10° ATB	10	273.080.36D ●
	160	20 (+16)	2/6/32	56	1,8	1,2	12°	10° ATB + 8° Shear	10	273.160.56H
new	165	20 (+15,87)	2/6/32	56	1,6	1,0	12°	15° ATB + 8° Shear	10	273.165.56H
	190	30 (+20+16)	2/7/42	64	1,7	1,1	15°	10° ATB + 8° Shear	10	273.190.64M
	216	30	2/7/42	64	1,8	1,2	-5° Neg.	10° ATB + 8° Shear	10	273.216.64M
	250	30	COMBI3	80	2,4	1,6	12°	10° ATB + 8° Shear	10	273.250.80M
	300	30	COMBI3	96	2,6	1,8	12°	10° ATB + 8° Shear	5	273.300.96M

● Ideal for PROXXON® (Materials: Wood, Plastic, Non-ferrous)



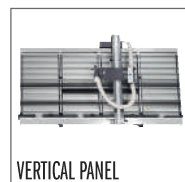
283.6 ORANGE CHROME®



WOOD



Machines

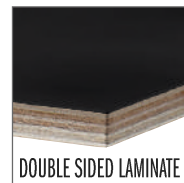
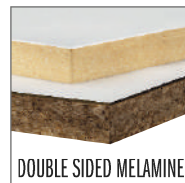


Blade diameter compatibility is contingent on machine type.

Applications

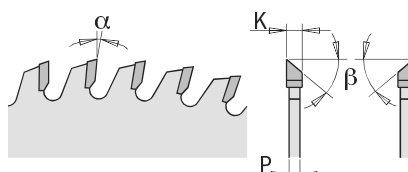


Materials



D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	3,2	2,2	-2° Neg.	38° Hi-ATB	5	283.680.10M
300	30	COMBI3	96	3,2	2,2	2°	38° Hi-ATB	5	283.696.12M

283 INDUSTRIAL



WOOD



Machines



MITRE SAW



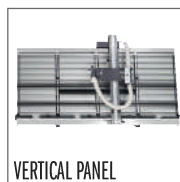
SLIDE MITRE SAW



RADIAL ARM



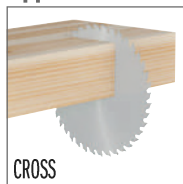
TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS



SCORING NOT
REQUIRED

Materials



HARDWOOD



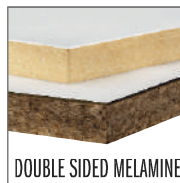
SOFTWOOD



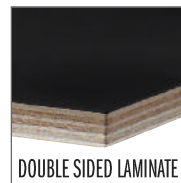
PLYWOOD



VENEERED PLYWOOD



DOUBLE SIDED MELAMINE



DOUBLE SIDED LAMINATE

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
220*	30	2/7/42	64	3,2	2,2	-5° Neg.	40° Hi-ATB	1	283.064.09M
250	30	COMBI3	80	3,2	2,2	-2° Neg.	40° Hi-ATB	1	283.080.10M
300	30	COMBI3	96	3,2	2,2	2°	40° Hi-ATB	1	283.096.12M
350	30	COMBI3	108	3,5	2,5	5°	40° Hi-ATB	1	283.108.14M

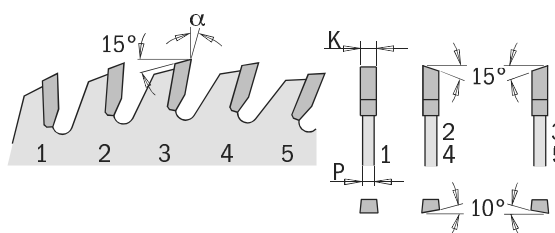
*Non-Silent Blades



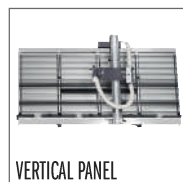
274 INDUSTRIAL



WOOD



Machines

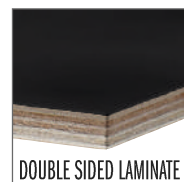


Blade diameter compatibility is contingent on machine type.

Applications



Materials

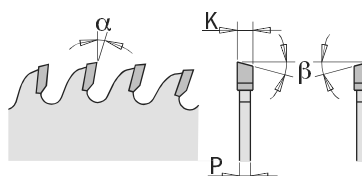


D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	3,2	2,2	15°	1° FLAT + 4° ATB	1	274.080.10M
300	30	COMBI3	100	3,2	2,2	15°	1° FLAT + 4° ATB	1	274.100.12M

285.5 ORANGE CHROME®



WOOD



Machines



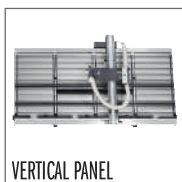
MITRE SAW



RADIAL ARM



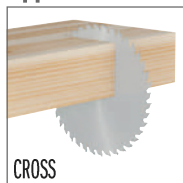
TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS

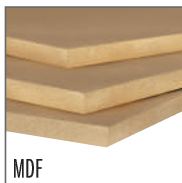
Materials



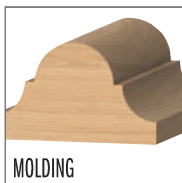
HARDWOOD



PLYWOOD



MDF

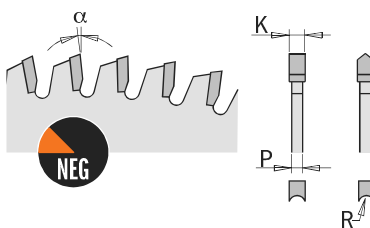


MOLDING

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	3,0	2,5	10°	20° ATB	5	285.580.10M
300	30	COMBI3	96	3,0	2,5	10°	20° ATB	5	285.596.12M



287 INDUSTRIAL



PERFORMANCE

WOOD

Machines



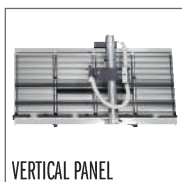
MITRE SAW



SLIDE MITRE SAW



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS



SCORING NOT
REQUIRED

Materials



HARDWOOD



SOFTWOOD



PLYWOOD



VENEERED PLYWOOD



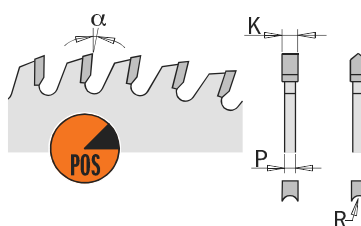
DOUBLE SIDED MELAMINE



DOUBLE SIDED LAMINATE

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
220	30	2/7/42	42	3,2	2,2	-6° Neg.	HDF	1	287.043.09M
250	30	COMBI3	48	3,2	2,2	-6° Neg.	HDF	1	287.049.10M
303	30	COMBI3	60	3,2	2,2	-6° Neg.	HDF	1	287.061.12M

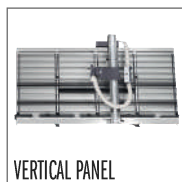
287 INDUSTRIAL



WOOD



Machines

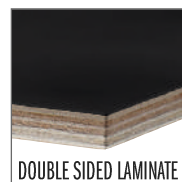


Blade diameter compatibility is contingent on machine type.

Applications



Materials

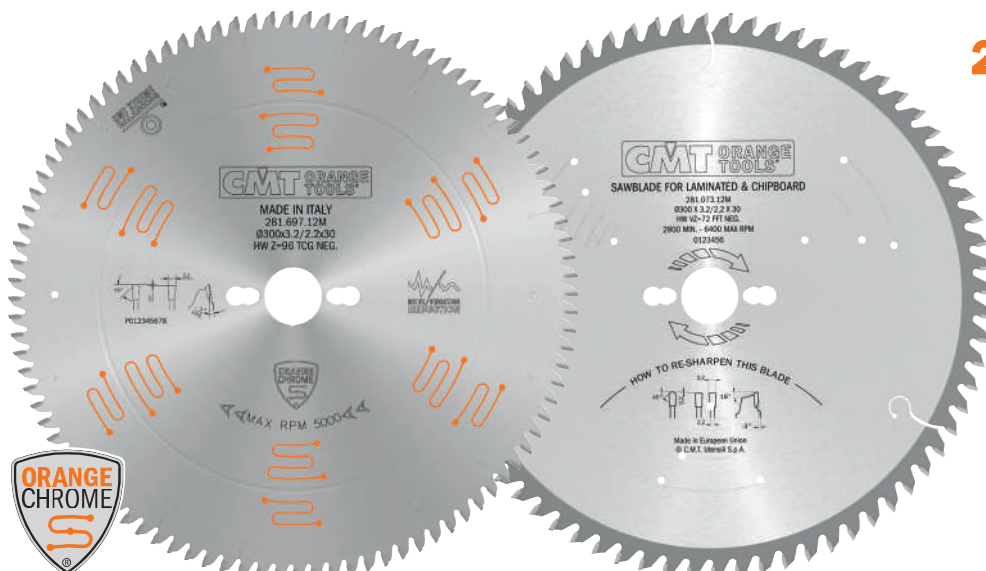


D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	34	2,6	1,8	10°	HDF	5	287.034.06H
220	30	2/7/42	42	3,2	2,2	10°	HDF	1	287.042.09M
250	30	COMBI3	48	3,2	2,2	10°	HDF	1	287.048.10M
303	30	COMBI3	60	3,2	2,2	10°	HDF	1	287.060.12M

281



WOOD



Images are not in scale with each other.



Machines



SLIDE MITRE SAW



RADIAL ARM



TABLE SAW



VERTICAL PANEL

Applications



CROSS



Blade diameter compatibility is contingent on machine type.

Materials



HARDWOOD



PLYWOOD



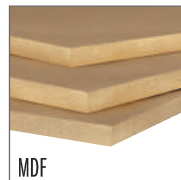
MELAMINE



LAMINATE

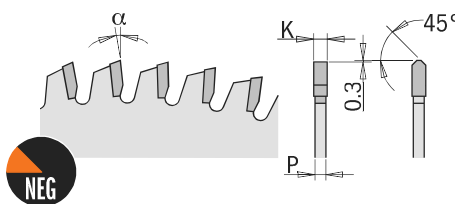


CHIPBOARD



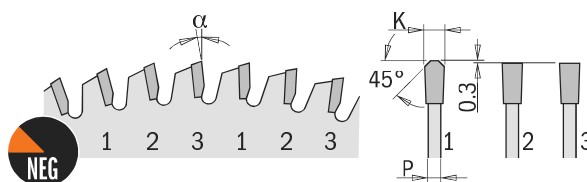
MDF

281 ORANGE CHROME®



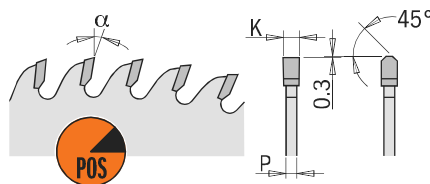
D mm	B mm	PIN HOLE ⊕⊖	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	3,2	2,2	-3° Neg.	TCG	5	281.681.10M
300	30	COMBI3	96	3,2	2,2	-3° Neg.	TCG	5	281.697.12M

281 INDUSTRIAL



D mm	B mm	PIN HOLE ⊕⊖	Z	K mm	P mm	α	β		ORDER NO.
220	30	COMBI3	63	3,2	2,2	-3° Neg.	FFT	1	281.063.09M
250	30	COMBI3	60	3,2	2,2	-3° Neg.	FFT	1	281.061.10M
300	30	COMBI3	72	3,2	2,2	-3° Neg.	FFT	1	281.073.12M

281 ORANGE CHROME®



Machines



CIRCULAR SAW



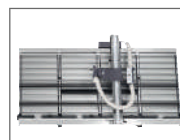
MITRE SAW



RADIAL ARM



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS

Materials



HARDWOOD



PLYWOOD



MELAMINE



LAMINATE



CHIPBOARD



MDF



SOLID SURFACE

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	48	2,2	1,6	4°	TCG	5	281.760.48H •
190	20 (FESTOOL® FF)	-	54	2,6	1,8	4°	TCG	5	281.790.54FF •
250	30	COMBI3	80	3,2	2,2	5°	TCG	5	281.680.10M
300	30	COMBI3	72	3,2	2,2	10°	TCG	5	281.672.12M
300	30	COMBI3	96	3,2	2,2	5°	TCG	5	281.696.12M
350	30	COMBI3	84	3,5	2,5	10°	TCG	3	281.684.14M
350	30	COMBI3	108	3,5	2,5	5°	TCG	3	281.708.14M

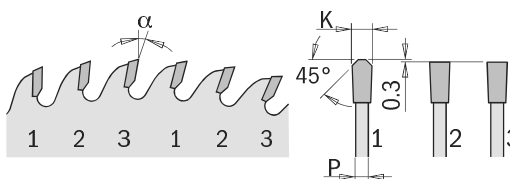
• Ideal for FESTOOL®



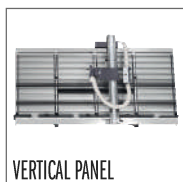
295 XTREME



WOOD



Machines

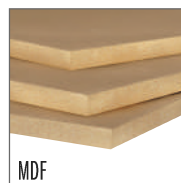


Blade diameter compatibility is contingent on machine type.

Applications



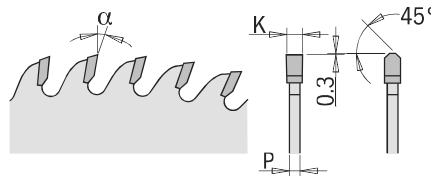
Materials



D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	78	3,2	2,2	10°	FFT	5	295.078.10M
300	30	COMBI3	96	3,2	2,2	10°	FFT	5	295.096.12M
350	30	COMBI3	108	3,5	2,5	10°	FFT	3	295.108.14M



281 XTREME



WOOD

Machines



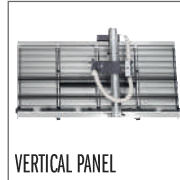
MITRE SAW



RADIAL ARM



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications



CROSS

Materials



HARDWOOD



PLYWOOD



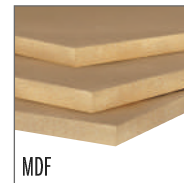
MELAMINE



LAMINATE



CHIPBOARD



MDF

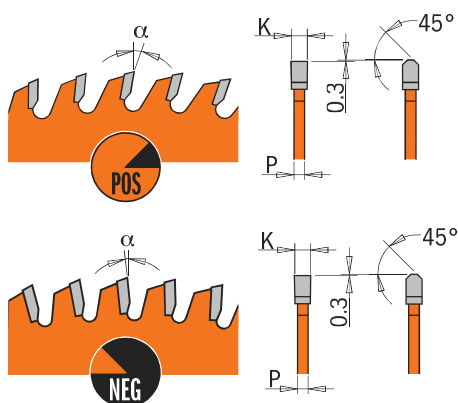
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
190*	20 (FESTOOL® FF)	-	54	2,6	1,8	4°	TCG	5	281.190.54FF ■
250	30	COMBI3	60	3,2	2,2	10°	TCG	5	281.060.10M
250	30	COMBI3	80	3,2	2,2	10°	TCG	5	281.080.10M
300	30	COMBI3	72	3,2	2,2	10°	TCG	5	281.072.12M
300	30	COMBI3	96	3,2	2,2	10°	TCG	5	281.096.12M
350	30	COMBI3	84	3,5	2,5	10°	TCG	3	281.084.14M
350	30	COMBI3	108	3,5	2,5	10°	TCG	3	281.108.14M

*Non-Silent Blades

■ Until stock last



281 INDUSTRIAL



PERFORMANCE

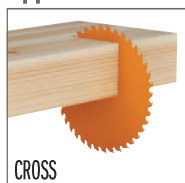
WOOD

Machines



Blade diameter compatibility is contingent on machine type.

Applications



Materials



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

Positive

D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β	APPLICATIONS		ORDER NO.
160	20 (VIRUTEX®)	4/7/32 45°	40	2,2	1,6	10°	TCG	Finish	10	281.160.40H
160	20	2/6/32	48	2,2	1,6	5°	TCG	Fine Finish	10	281.160.48H ●
200	30	2/7/42	64	3,2	2,2	10°	TCG	Fine Finish	10	281.064.08M
220	30	2/7/42	64	3,2	2,2	10°	TCG	Fine Finish	10	281.064.09M
225	30	2/7/42	64	2,6	1,8	4°	TCG	Fine Finish	10	281.225.64M ●

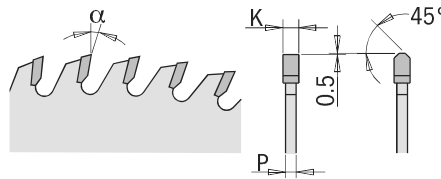
● Ideal for FESTOOL®

Negative

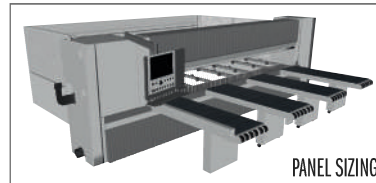
D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β	APPLICATIONS		ORDER NO.
160	20	2/6/32	56	2,2	1,6	-3° Neg.	TCG	Ultra Finish	10	281.161.56H ●
165	20	2/6/32	56	2,2	1,6	-3° Neg.	TCG	Ultra Finish	10	281.166.56H
260	30	COMBI3	64	2,5	1,8	-3° Neg.	TCG	Finish	5	281.065.11M ●

● Ideal for FESTOOL®

281-282 INDUSTRIAL X TREME



Machines

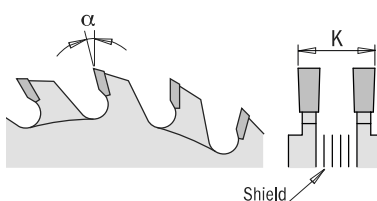


D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β	LOW NOISE		ORDER NO. INDUSTRIAL	ORDER NO. X TREME
250	30	COMBI3	60	3,2	2,2	10°	TCG		1		281.060.10M
250	30	COMBI3	80	3,2	2,2	10°	TCG		1		281.080.10M
300	30	COMBI3	60	4,4	3,2	16°	TCG		1		282.060.12M
300	30	COMBI3	72	3,2	2,2	10°	TCG		5		281.072.12M
300	30	COMBI3	96	3,2	2,2	10°	TCG		1		281.096.12M
300	75	-	60	4,4	3,2	16°	TCG		1		282.060.12X
300	80	COMBI5	60	4,4	3,2	16°	TCG		1		282.060.12W
320	65	2/9/100 + 2/9/110	60	4,4	3,2	16°	TCG		1		Y282.060.13J
320	65	2/9/100 + 2/9/110	72	4,4	3,2	16°	TCG		1		282.072.13J
350	30	COMBI3	54	4,4	3,2	16°	TCG		1	282.054.14M	
350	30	COMBI3	72	4,4	3,2	16°	TCG		1		282.072.14M
350	30	COMBI3	108	3,5	2,5	10°	TCG		1		281.108.14M
350	50	3/12,5/80	72	4,4	3,2	16°	TCG		1	282.072.14T	
350	60	2/14/100	72	4,4	3,2	16°	TCG		1		Y282.072.14U
350	75	4/15/105 + 3/7/100	54	4,4	3,2	16°	TCG		1	282.054.14X	
350	75	4/15/105 + 3/7/100	72	4,4	3,2	16°	TCG		1		282.072.14X
350	80	COMBI5	54	4,4	3,2	16°	TCG		1	282.054.14W	
350	80	COMBI5	72	4,4	3,2	16°	TCG		1		282.072.14W
355	30	COMBI3	72	4,4	3,2	16°	TCG		1	S282.03556	
355	65	2/9/100 + 2/9/110	72	4,4	3,2	16°	TCG		1		282.072.14J2
355	80	4/9/100 + 2/9/110 + 2/14/110	72	4,4	3,2	10°	TCG		1		282.072.14W2
380	60	2/14/100	72	4,4	3,2	15°	TCG		1		282.072.15U2
380	60	COMBI7	72	4,8	3,5	16°	TCG		1		282.072.15U
380	80	COMBI5	72	4,4	3,2	16°	TCG		1		282.072.15W
400	30	2/10/60	60	4,4	3,2	16°	TCG		1		282.060.16M
400	30	2/10/60	72	4,4	3,2	16°	TCG		1		282.072.16M
400	60	COMBI7	72	4,4	3,2	16°	TCG		1		282.072.16U
400	75	4/15/105	60	4,4	3,2	16°	TCG		1	282.060.16X	
400	75	4/15/105	72	4,4	3,2	16°	TCG		1		282.072.16X
400	80	COMBI5	60	4,4	3,2	16°	TCG		1	282.060.16W	
400	80	COMBI5	72	4,4	3,2	16°	TCG		1		282.072.16W
420	80	4/9/100 + 2/9/110 + 2/14/110	72	4,4	3,2	15°	TCG		1		282.072.17W
430	65	2/9/100 + 2/9/110	72	4,4	3,2	16°	TCG		1		Y282.072.17J
430	75	4 /15/105	72	4,4	3,2	16°	TCG		1		282.072.17X
430	80	COMBI5	72	4,4	3,2	16°	TCG		1		282.072.17W2
450	30	COMBI3 + 2/14/95	72	4,4	3,2	16°	TCG		1		Y282.072.18M2
450	60	COMBI7	72	4,8	3,5	16°	TCG		1		282.072.18U
450	80	COMBI5	72	4,8	3,5	16°	TCG		1		282.072.18W2
500	60	COMBI7	72	4,8	3,5	16°	TCG		1		282.072.20U
500	80	COMBI5	72	4,8	3,5	16°	TCG		1	Y282.072.20W ■	
550	100	-	72	5,2	3,5	16°	TCG		1	282.072.22A ■	

■ Until stock last



289 XTREME



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



PERFORMANCE

WOOD

Machines



SQUARING

Applications



Materials



MELAMINE



LAMINATE

D mm	B mm		Z	K mm	α	β		ORDER NO.
70	20		8+8	2,8-3,6	12°	FLAT	10	289.070.16H
80	20		10+10	2,8-3,6	12°	FLAT	10	289.080.20H
100	20		10+10	2,8-3,6	12°	FLAT	10	289.100.20H
100	22		10+10	2,8-3,6	12°	FLAT	10	289.100.20K
120	20		12+12	2,8-3,6	12°	FLAT	10	289.120.24H
120	22		12+12	2,8-3,6	12°	FLAT	10	289.120.24K
120	50		12+12	2,8-3,6	12°	FLAT	10	289.120.24T ●
125	20		12+12	2,8-3,6	12°	FLAT	10	289.125.24H
125	22		12+12	2,8-3,6	12°	FLAT	10	289.125.24K

Spare parts



PVC SHIMS

299.000.05H

299.000.05H

299.000.02K

299.000.02K

299.000.02K

299.000.02K

299.000.02K

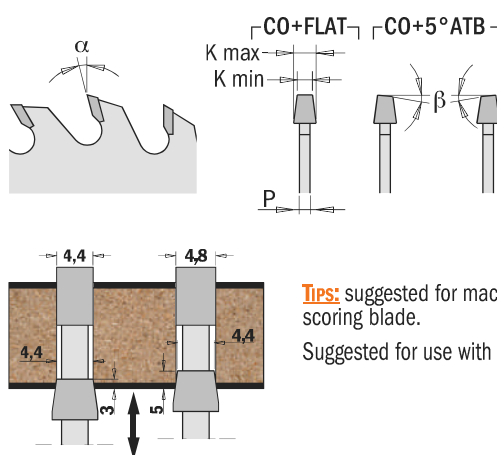
299.000.02K

299.000.02K

● Ideal for ALTENDORF® Rapido System



288 XTREME



WOOD

Tips: suggested for machines with vertical regulation of scoring blade.

Suggested for use with thick kerf or panel sizing blade.

Machines



SQUARING

Applications



Materials



MELAMINE



LAMINATE

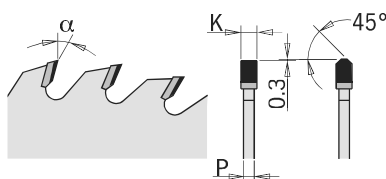
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
80	20	-	12	3,1-3,6	2,2	10°	CO+FLAT	10	S288.080.12H
100	20	-	20	3,1-4,0	2,2	5°	CO+5° ATB	10	288.100.20H
100	22	-	20	3,1-4,0	2,2	5°	CO+5° ATB	10	288.100.20K
120	20	-	24	3,1-4,0	2,2	5°	CO+5° ATB	10	288.120.24H
120	20	-	24	3,4-4,2	2,5	5°	CO+5° ATB	10	288.120.24H1
120	22	-	24	3,1-4,0	2,2	5°	CO+5° ATB	10	288.120.24K
125	20	-	24	3,1-4,0	2,2	5°	CO+5° ATB	10	288.125.24H
125	20	-	24	3,4-4,2	2,5	5°	CO+5° ATB	10	288.125.24H1
125	20	-	24	4,3-5,5	3,2	10°	CO+FLAT	10	288.125.24H2
125	22	-	24	3,1-4,0	2,2	5°	CO+5° ATB	10	288.125.24K
125	45	-	24	4,3-5,5	3,2	10°	CO+FLAT	10	288.125.24Q
140	16	1/6/33	24	3,1-4,0	2,2	10°	CO+FLAT	5	Y288.140.24E ■
150	45	3/11/70	36	4,3-5,5	3,2	10°	CO+FLAT	5	288.150.36Q
160	45	3/11/70	36	4,3-5,5	3,2	10°	CO+FLAT	5	288.160.36Q
160	55	3/7/66 + 3/6/84	36	4,3-5,5	3,2	10°	CO+FLAT	5	288.160.360
180	20	-	36	4,3-5,5	3,2	10°	CO+FLAT	5	Y288.180.36H ■
180	30	COMBI3	36	4,5-5,5	3,2	10°	CO+FLAT	5	288.180.36M
180	45	-	36	4,3-5,5	3,2	8°	CO+5° ATB	5	288.180.36Q2
180	45	-	36	4,7-6,0	3,5	10°	CO+FLAT	5	288.180.36Q
180	55	-	36	5,0-6,2	3,5	10°	CO+FLAT	5	288.180.360 ■
180	50	3/12,5/80	44	4,3-5,5	3,2	10°	CO+FLAT	5	288.180.44T
200	20	-	36	4,4-5,3	3,2	10°	CO+FLAT	5	288.200.36H
200	45	-	36	4,7-6,0	3,5	10°	CO+FLAT	5	288.200.36Q
200	45	-	36	4,3-5,5	3,2	10°	CO+FLAT	5	Y288.200.36Q2
200	65	2/9/100 + 2/9/110	36	4,4-5,3	3,2	10°	CO+FLAT	5	288.200.36J
215	50	3/15/80	42	4,3-5,5	3,2	8°	CO+FLAT	5	288.215.42T
300	50	3/15/80	48	4,3-5,5	3,2	10°	CO+FLAT	5	288.300.48T
300	65	2/9/100 + 2/9/110	72	4,3-5,5	3,2	10°	CO+FLAT	5	288.300.72J

■ Until stock last

DP - Laminated & Chipboard



237 XTREME



50X
LONGER LIFE
THAN CARBIDE



★ ★ ★ ★ ★
PERFORMANCE

WOOD

Machines



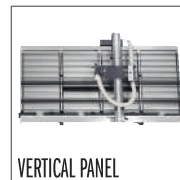
MITRE SAW



SQUARING



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

High-quality nickel-plated saw blades with anti-friction and anti-corrosion properties.

Applications



CROSS

Materials



HARDWOOD



PLYWOOD



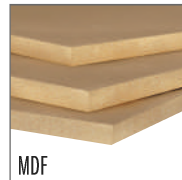
MELAMINE



LAMINATE



CHIPBOARD



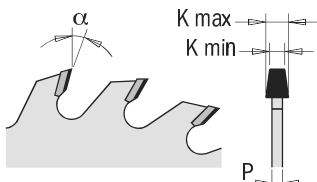
MDF

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	48	3,2	2,2	10°	TCG	1	237.048.10M
300	30	COMBI3	60	3,2	2,2	10°	TCG	1	237.060.12M
300	30	COMBI3	96	3,2	2,2	15°	TCG	1	237.096.12M
350	30	COMBI3	72	3,5	2,4	15°	TCG	1	237.072.14M

DP - Conical Scoring



238 XTREME



50X
LONGER LIFE
THAN CARBIDE



★ ★ ★ ★ ★
PERFORMANCE

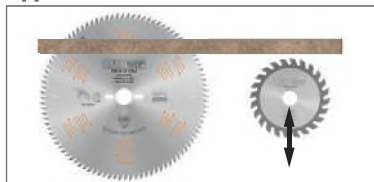
WOOD

Machines



SQUARING

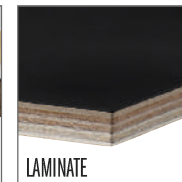
Applications



Materials



MELAMINE



LAMINATE

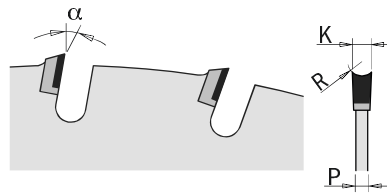
D mm	B mm	Z	K mm	P mm	α	β		ORDER NO.
120	20	20	3,1-3,7	2,2	5°	CONICAL	1	238.120.20H
125	20	20	3,1-3,7	2,2	5°	CONICAL	1	238.125.20H

High-quality nickel-plated saw blades with anti-friction and anti-corrosion properties.



LEUCO
Patent Pending

235 XTREME-ALL-AROUND



50X
LONGER LIFE
THAN CARBIDE



MULTI-MATERIALS

Machines



CIRCULAR SAW



SLIDE MITRE SAW



TABLE SAW



VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Materials

NO LIMITS: CUT ALL WITH ONE BLADE!



GYPSUM PLASTERBOARD



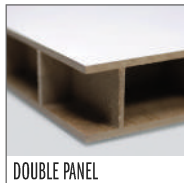
VENEERED LAMINATED WOOD



PLYWOOD



MULTIPLEX



DOUBLE PANEL



FLOOR PANELING



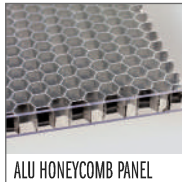
HONEYCOMB PANEL



SOLID WOOD PANEL



HOLLOW ALU PROFILE



ALU HONEYCOMB PANEL



HPL LAMINATE



POLYETHYLENE



BOARD MATERIAL



MELAMINE LAMINATED PARTICLEBOARD



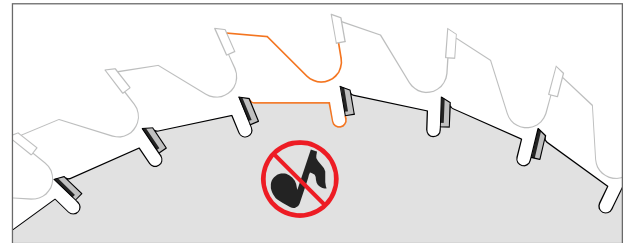
HPL LAMINATED PARTICLEBOARD



LACQUERED MDF

XTREME-NOISELESS

Thanks the new minimization of gullets design this blade succeeded in reducing the noise of idling by up to 15 dB(A) compared to conventional carbide saw blades. With a noise level of just around 70dB(A) when idling, the wearing of hearing protection is outdated.



XTREME-ALL-AROUND

New industry standard with universal application in countless materials and suitable for all chop saws and portable machines, table and vertical panel sizing saws, CNCs and through-feed installations

XTREME-QUALITY

The special hollow back tooth configuration (HR) guarantees an excellent cutting quality.

XTREME-FAST

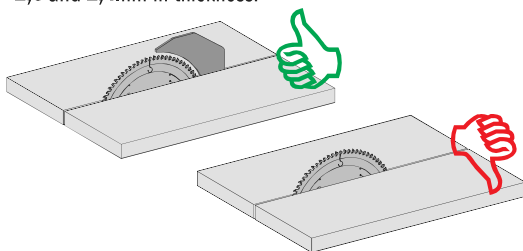
The teeth are surprisingly thin! The cutting width is a mere 2,5 mm and they generate noticeably lower cutting pressure and therefore also require less power during usage. Resharpenable max 2 times.

XTREME-LIFETIME

The lifetime is 20X longer than carbide blades thanks to the diamond tips.

RECOMMENDED USE

We recommend the use of a splitting wedge between 2,0 and 2,4mm in thickness.

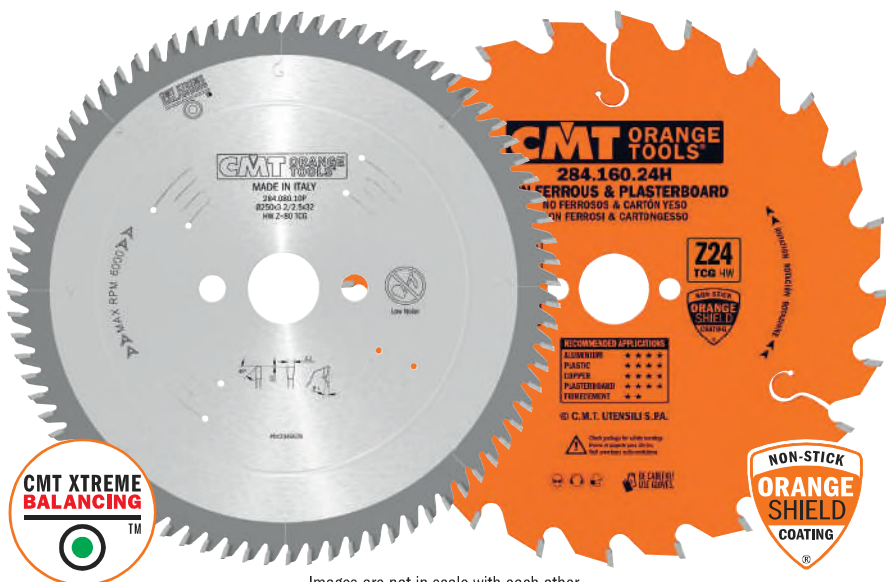


LONGER LIFETIME THANKS TO DIAMOND TIPS Clean your circular saw blades on a regular basis. You will profit from a long-lasting and precise cutting quality and maximize the lifetime of your innovative saw blades many times over.



- It is not recommended to use the saw blades for longitudinal cuts in soft wood and material thicknesses of more than 40mm.
- Do not cut materials with nails, stone and metal parts.
- Chip-free cuts can only be guaranteed in combination with a suitable scoring saw blade.

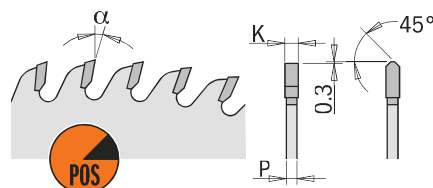
D mm	B mm	PIN HOLE ⊕ ⊖ ⊕ ⊖	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	20	2,2	1,6	10°	HR	1	235.160.20H
190	30	2/7/42	24	2,5	2,0	10°	HR	1	235.190.24M
216	30	2/7/42	30	2,5	2,0	10°	HR	1	235.216.30M
250	30	COMBI3	36	2,5	2,0	10°	HR	1	235.250.36M
300	30	COMBI3	44	2,5	2,0	10°	HR	1	235.300.44M



284



NON-FERROUS



Images are not in scale with each other.

Machines

*WITH MEC/MAN WORKPIECE CLAMPING



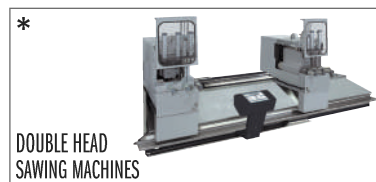
CIRCULAR SAW



MITRE SAW



DOUBLE MITRE SAWS



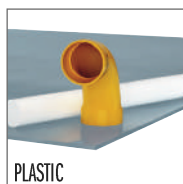
DOUBLE HEAD SAWING MACHINES

Blade diameter compatibility is contingent on machine type.

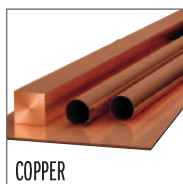
Materials



ALUMINIUM



PLASTIC



COPPER



BRASS



PLASTERBOARD

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

284 XTREME



D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
250	32	2/12/64	80	3,2	2,5	6°	TCG	5	284.080.10P
300	32	2/12/64	96	3,2	2,5	6°	TCG	5	284.096.12P
350	32	2/12/64	84	3,6	3,0	6°	TCG	3	284.092.14P
350	32	2/12/64	108	3,6	3,0	6°	TCG	3	284.108.14P
400	32	2/12/64	96	4,0	3,2	6°	TCG	2	284.096.16P
420	32	2/12/64	96	3,8	3,2	6°	TCG	2	284.096.17P
450	30	2/10/60	108	4,2	3,5	6°	TCG	2	284.108.18M
450	32	2/12/64	108	4,2	3,5	6°	TCG	2	284.108.18P
500	30	2/10/60	120	4,3	3,5	10°	TCG	2	284.120.20M
500	32	2/12/64	120	4,3	3,5	10°	TCG	2	284.120.20P

284 INDUSTRIAL

NON-STICK ORANGE SHIELD COATING®



D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	24	2,2	1,6	5°	TCG	10	284.160.24H •
190	30	2/7/42	30	2,6	2,2	5°	TCG	10	284.190.30M
216	30	2/7/42	40	2,6	2,2	5°	TCG	10	284.216.40M •

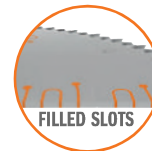
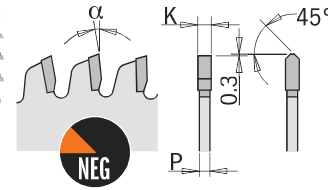
• Ideal for FESTOOL®



296-297



NON-FERROUS



Images are not in scale with each other.

Machines



CIRCULAR SAW



MITRE SAW



SLIDE MITRE SAW



PORTABLE TABLE SAW



STATIONARY TABLE SAW



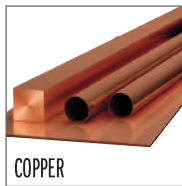
DOUBLE MITRE SAWS

Blade diameter compatibility is contingent on machine type.

Materials



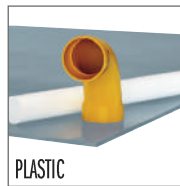
ALUMINIUM



COPPER



BRASS



PLASTIC



MELAMINE

296-297 ORANGE CHROME®

• IDEAL FOR FESTOOL®

	D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
new	160	20	2/6/32	52	2,2	1,8	-5° Neg.	TCG	5	296.760.52H •
new	216	30	2/7/42	64	2,3	1,6	0°	TCG	5	297.816.64M •

297 XTREME

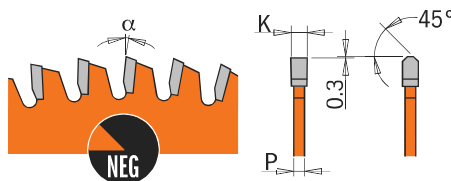
	250	30	COMBI3	80	3,2	2,5	-6° Neg.	TCG	5	297.080.10M
	250	32	2/12/64	80	3,2	2,5	-6° Neg.	TCG	5	297.080.10P
	254	30	COMBI3	80	3,2	2,5	-6° Neg.	TCG	5	297.081.10M
	260	30	COMBI3	80	3,2	2,5	-6° Neg.	TCG	5	297.080.11M
	280	30	COMBI3	64	3,2	2,5	-6° Neg.	TCG	5	297.064.11M
	300	30	COMBI3	96	3,2	2,5	-6° Neg.	TCG	5	297.096.12M
	300	32	2/12/64	96	3,2	2,5	-6° Neg.	TCG	5	297.096.12P
	305	30	COMBI3	96	3,2	2,5	-6° Neg.	TCG	5	297.096.13M
	315	30	COMBI3	96	3,2	2,5	-6° Neg.	TCG	5	297.096.23M
	330	30	COMBI3	96	3,6	3,0	-6° Neg.	TCG	3	297.096.33M
	330	32	COMBI3	96	3,6	3,0	-6° Neg.	TCG	3	297.096.33P
	350	30	COMBI3	108	3,6	3,0	-6° Neg.	TCG	3	297.108.14M
	350	32	4/12/64	108	3,6	3,0	-6° Neg.	TCG	3	297.108.14P
	400	30	2/10/60	120	4,0	3,2	-6° Neg.	TCG	2	297.120.16M
	400	32	4/12/64	96	4,0	3,2	-6° Neg.	TCG	2	297.108.16P
new	400	32	4/12/64	120	4,0	3,2	-6° Neg.	TCG	2	297.120.16P
	450	30	2/10/60	96	4,2	3,5	-6° Neg.	TCG	2	297.108.18M
	450	30	2/10/60	120	4,2	3,5	-6° Neg.	TCG	2	Y297.140.18M
	450	32	2/12/64	96	4,2	3,5	-6° Neg.	TCG	2	297.108.18P
new	450	32	4/12/64	120	4,2	3,5	-6° Neg.	TCG	2	297.120.18P
	500	30	2/10/60	120	4,3	3,5	-6° Neg.	TCG	2	297.120.20M
	500	32	2/12/64	120	4,3	3,5	-6° Neg.	TCG	2	297.120.20P



296-297 INDUSTRIAL



NON-FERROUS



Machines



CIRCULAR SAW



MITRE SAW



SLIDE MITRE SAW



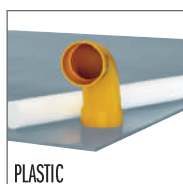
TABLE SAW

Blade diameter compatibility is contingent on machine type.

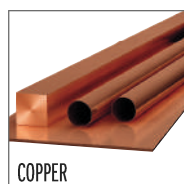
Materials



ALUMINIUM



PLASTIC



COPPER



BRASS



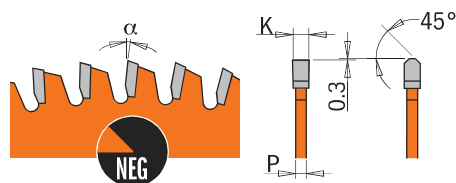
MELAMINE

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
120	20	2/5,5/30	36	1,8	1,2	-6° Neg.	TCG	10	296.120.36H
160	20	2/6/32	40	2,2	1,6	-6° Neg.	TCG	10	296.160.40H ●
160	20	2/6/32	56	2,2	1,6	-6° Neg.	TCG	10	296.160.56H ●
165	20	2/6/32	40	2,2	1,6	-6° Neg.	TCG	10	296.165.40H
165	20	2/6/32	56	2,2	1,6	-6° Neg.	TCG	10	296.165.56H
180	20	2/6/32	40	2,8	2,2	-6° Neg.	TCG	10	296.180.40H
190	30	2/7/42	40	2,8	2,2	-6° Neg.	TCG	10	296.190.40M
190	30	2/7/42	64	2,8	2,2	-6° Neg.	TCG	10	296.190.64M
190	20 (FESTOOL® FF)	Key 5/7/2,5	64	2,8	2,2	-6° Neg.	TCG	10	296.190.64FF ●
200	30	COMBI3	48	2,8	2,2	-6° Neg.	TCG	10	296.200.48M
210	30	2/7/42	48	2,8	2,2	-6° Neg.	TCG	10	296.210.48M ●
210	30	2/7/42	64	2,8	2,2	-6° Neg.	TCG	10	296.210.64M ●
216	30	2/7/42	64	2,8	2,2	-6° Neg.	TCG	10	297.064.09M ●
216	30	2/7/42	80	2,8	2,2	-6° Neg.	TCG	10	297.080.09M ●
225	30	2/7/42	64	2,8	2,2	-6° Neg.	TCG	10	296.225.64M ●
230	30	2/7/42	48	2,8	2,2	-6° Neg.	TCG	10	296.230.48M ●
235	30	2/7/42	48	2,8	2,2	-6° Neg.	TCG	10	296.235.48M

● Ideal for FESTOOL®



276 ITK PLUS®



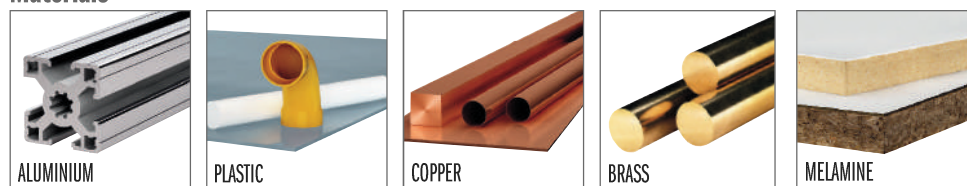
NON-FERROUS

Machines



Blade diameter compatibility is contingent on machine type.

Materials



	D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
new	140	20	2/6/32,5	48	1,8	1,2	-6° Neg.	TCG	10	276.140.48H
	160	20 (+16)	2/6/32	48	1,8	1,2	-6° Neg.	TCG	10	276.160.48H
	165	20 (+15,87)	2/6/32	56	1,8	1,2	-6° Neg.	TCG	10	276.165.56H
	184	20 (+16+15,87)	2/7/42	48	1,8	1,2	-6° Neg.	TCG	10	276.184.48H
	190	30 (+20+16)	2/7/42	64	1,8	1,2	-6° Neg.	TCG	10	276.190.64M
	210	30 (+25)	2/7/42	64	1,8	1,2	-6° Neg.	TCG	10	276.210.64M
	216	30	2/7/42	64	2,2	1,6	-6° Neg.	TCG	10	276.216.64M
	250	30	COMBI3	80	2,6	1,8	-6° Neg.	TCG	10	276.250.80M
	300	30	COMBI3	96	2,8	2,0	-6° Neg.	TCG	5	276.300.96M
	305	30	COMBI3	96	2,8	2,0	-6° Neg.	TCG	5	276.305.96M

MATERIALS	COATING TYPE	
		
STEEL (<500 N/mm ²)	★ ★	★ ★ ★ ★
STEEL (<800 N/mm ²)	★ ★	★ ★ ★
STEEL (<1200 N/mm ²)	★ ★	★ ★ ★
STAINLESS STEEL	★ ★	★ ★ ★ ★
CAST IRON	★ ★	★ ★ ★ ★
ALUMINIUM/ALLOY AL.	★ ★	★ ★ ★ ★
TITANIUM	★	★ ★
BRONZE	NOT RECOMMENDED	★ ★ ★ ★
COPPER	NOT RECOMMENDED	★ ★ ★
BRASS	NOT RECOMMENDED	★ ★ ★
TECHNICAL INFO	VAPO	TiCN
COLOR	BLACK	BROWN - RED
HARDNESS (HV)	800	3200
THICKNESS (µm)	2 - 4	2 - 4
COEFFICIENT OF FRICTION	0.6	0.2
MAX. WORKING TEMPERATURE	350°C	450°C

SUGGESTED SPEED (BW - C/HZ)

MATERIALS	V (m/min.) MIN. ~ MAX
STEEL (<500 N/mm ²):	30 ~ 60
STEEL (<800 N/mm ²):	25 ~ 40
STEEL (<1200 N/mm ²):	15 ~ 30
STAINLESS STEEL:	15 ~ 30
CAST IRON:	25 ~ 50
ALUMINIUM/ALLOY AL.:	500 ~ 700
TITANIUM:	15 ~ 20
BRONZE:	200 ~ 300
COPPER:	200 ~ 400
BRASS:	400 ~ 600

$$RPM = \frac{1000 \times V \text{ (m/min.)}}{3,14 \times D \text{ (mm)}}$$



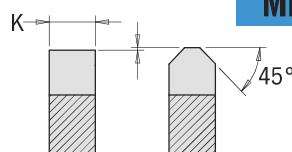
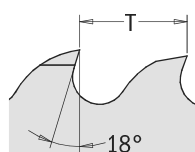
Metal & Steel



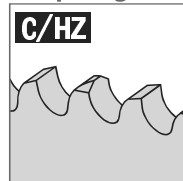
227 HSS LINE



METAL & STEEL



Sharpening



Applications



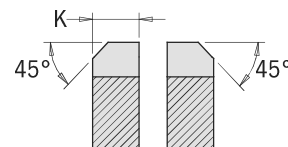
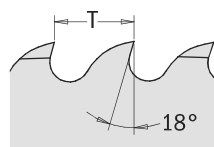
D mm	B mm	PIN HOLE 	Z	K mm	PITCH T	β	COATING 	ORDER NO.
250	32	2/8/45+2/9/50+2/11/63	128	2,0	T6	C/HZ	VAPO	227.250.128P
275	32	2/8/45+2/9/50+2/11/63	140	2,5	T6	C/HZ	VAPO	227.275.140P
300	32	2/8/45+2/9/50+2/11/63	160	2,5	T6	C/HZ	VAPO	227.300.160P
315	32	2/8/45+2/9/50+2/11/63	160	2,5	T6	C/HZ	VAPO	227.315.160P
350	32	2/8/45+2/9/50+2/11/63	180	2,5	T6	C/HZ	VAPO	227.350.180P



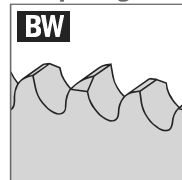
227 HSS LINE



METAL & STEEL



Sharpening



Applications



D mm	B mm	PIN HOLE 	Z	K mm	PITCH T	β	COATING 	ORDER NO.
200	32	2/8/45+2/9/50+2/11/63	160	1,8	T4	BW	VAPO	227.200.160P
225	32	2/8/45+2/9/50+2/11/63	180	1,9	T4	BW	VAPO	227.225.180P
250	32	2/8/45+2/9/50+2/11/63	160	2,0	T5	BW	VAPO	227.250.160P
250	32	2/8/45+2/9/50+2/11/63	200	2,0	T4	BW	VAPO	227.250.200P
275	32	2/8/45+2/9/50+2/11/63	220	2,5	T4	BW	VAPO	227.275.220P
300	32	2/8/45+2/9/50+2/11/63	220	2,5	T4	BW	VAPO	227.300.220P
315	32	2/8/45+2/9/50+2/11/63	240	2,5	T4	BW	VAPO	227.315.240P
350	32	2/8/45+2/9/50+2/11/63	280	2,5	T4	BW	VAPO	227.350.280P

D mm	B mm	PIN HOLE 	Z	K mm	PITCH T	β	COATING 	ORDER NO.
250	32	2/8/45+2/9/50+2/11/63	200	2,0	T4	BW	TiCN	227.250.700P
275	32	2/8/45+2/9/50+2/11/63	220	2,0	T4	BW	TiCN	227.275.722P
275	32	2/8/45+2/9/50+2/11/63	220	2,5	T4	BW	TiCN	227.275.720P
300	32	2/8/45+2/9/50+2/11/63	220	2,0	T4	BW	TiCN	227.300.722P
300	32	2/8/45+2/9/50+2/11/63	220	2,5	T4	BW	TiCN	227.300.720P
315	32	2/8/45+2/9/50+2/11/63	240	2,5	T4	BW	TiCN	227.315.740P
350	32	2/8/45+2/9/50+2/11/63	280	2,5	T4	BW	TiCN	227.350.780P



HSS
HIGH SPEED STEEL
DMo5

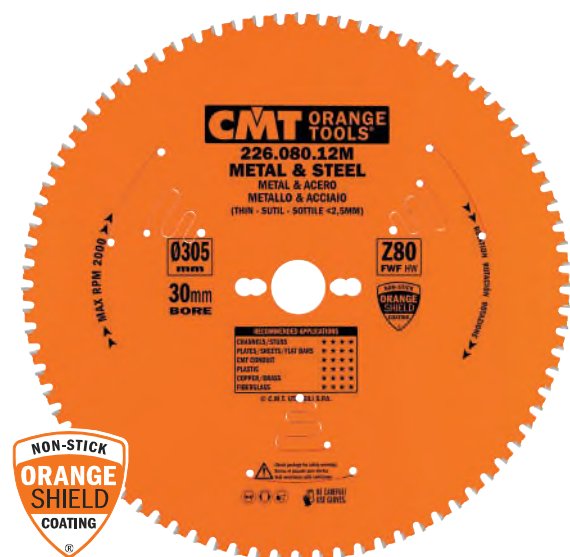


227 HSS LINE

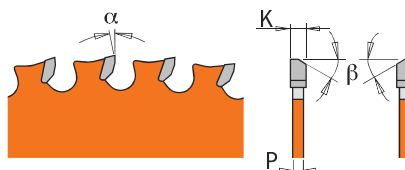


METAL & STEEL

D mm	B mm	PIN HOLE 	Z	K mm		β	COATING 	ORDER NO.
200	32	2/8/45+2/9/50+2/11/63	0	1,8		Not Sharpened	VAPO	227.200P
225	32	2/8/45+2/9/50+2/11/63	0	1,9		Not Sharpened	VAPO	227.225P
250	32	2/8/45+2/9/50+2/11/63	0	2,0		Not Sharpened	VAPO	227.250P
275	32	2/8/45+2/9/50+2/11/63	0	2,5		Not Sharpened	VAPO	227.275P
300	32	2/8/45+2/9/50+2/11/63	0	2,5		Not Sharpened	VAPO	227.300P
315	32	2/8/45+2/9/50+2/11/63	0	2,5		Not Sharpened	VAPO	227.315P
350	32	2/8/45+2/9/50+2/11/63	0	2,5		Not Sharpened	VAPO	227.350P



226 INDUSTRIAL



METAL & STEEL

Machines



CIRCULAR SAW



MITRE & CHOP MITRE SAW

Blade diameter compatibility is contingent on machine type.

Materials



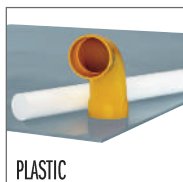
CHANNELS/STUDS/ANGLES



PLATES/SHEETS/FLAT BARS



EMT CONDUIT



PLASTIC



COPPER/BRASS

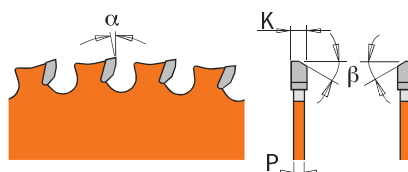


FIBERGLASS

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β	MAX RPM		ORDER NO.
136	20 (+10)	-	56	1,5	1,2	0°	8° FWF	6000	10	226.136.56H
150	20	-	60	1,6	1,2	0°	8° FWF	6000	10	226.150.60H
160	20 (+16)	2/6/32	60	2,0	1,6	0°	8° FWF	6000	10	226.160.60H •
165	20	2/6/32	60	1,6	1,2	0°	8° FWF	6000	10	226.165.60H
184	30 (+16+20)	2/7/42	64	2,0	1,6	0°	8° FWF	6000	10	226.184.64M
190	30 (+20)	2/7/42	64	2,0	1,6	0°	8° FWF	6000	10	226.190.64M
210	30	2/7/42	64	2,2	1,8	0°	8° FWF	4500	10	226.210.64M •
216	30	2/7/42	64	2,2	1,8	0°	8° FWF	3500	10	226.216.64M •
254	15,87	-	60	2,2	1,8	0°	8° FWF	3000	5	226.060.10
254	30	COMBI3	60	2,2	1,8	0°	8° FWF	3000	5	226.060.10M
305	25,4	-	80	2,2	1,8	0°	8° FWF	2000	5	226.080.12
305	30	COMBI3	80	2,2	1,8	0°	8° FWF	2000	5	226.080.12M
355	25,4	-	90	2,2	1,8	0°	8° FWF	2000	5	226.090.14
355	30	COMBI3	90	2,2	1,8	0°	8° FWF	2000	5	226.090.14M

• Ideal for FESTOOL®

226 INDUSTRIAL



METAL & STEEL



Machines



CIRCULAR SAW



MITRE & CHOP MITRE SAW

Blade diameter compatibility is contingent on machine type.

Materials



CHANNELS/STUDS/ANGLES



PLATES/SHEETS/FLAT BARS



PIPES/TUBES



RODS



EMT CONDUIT

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β	MAX RPM		ORDER NO.
136	10	-	30	1,5	1,2	0°	8° FWF	6000	10	226.030.05
136	20	-	30	1,5	1,2	0°	8° FWF	6000	10	226.030.05H
150	20	-	32	1,6	1,2	0°	8° FWF	6000	10	226.032.06H
160	20	2/6/32	30	2,0	1,6	0°	8° FWF	6000	10	226.030.06H •
165	15,87	-	36	1,6	1,2	0°	8° FWF	6000	10	226.036.06
165	20	2/6/32	36	1,6	1,2	0°	8° FWF	6000	10	226.036.06H
165	30	2/7/42	36	1,6	1,2	0°	8° FWF	6000	10	226.036.06M
184	15,87	-	48	2,0	1,6	0°	8° FWF	6000	10	226.048.07
190	30	2/7/42	40	2,0	1,6	0°	8° FWF	6000	10	226.040.07M
203	15,87	-	48	2,2	1,8	0°	8° FWF	4500	10	226.048.08
210	30	2/7/42	48	2,2	1,8	0°	8° FWF	4500	10	226.048.08M •
216	30	2/7/42	48	2,2	1,8	0°	8° FWF	3500	10	226.047.09M •
235	30	2/7/42	48	2,2	1,8	0°	8° FWF	3500	10	226.048.09M
254	15,87	-	48	2,2	1,8	0°	8° FWF	3000	5	226.048.10
305	25,4	-	60	2,2	1,8	0°	8° FWF	2000	5	226.060.12
355	25,4	-	72	2,2	1,8	0°	8° FWF	2000	5	226.072.14

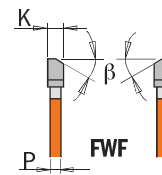
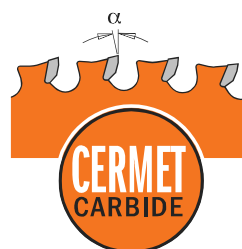
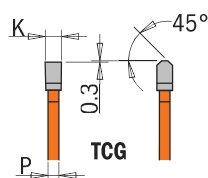
• Ideal for FESTOOL®



226 INDUSTRIAL



METAL & STEEL



Machines



CIRCULAR SAW



MITRE & CHOP MITRE SAW

Blade diameter compatibility is contingent on machine type.

Materials



CHANNELS/STUDS/ANGLES



PLATES/SHEETS/FLAT BARS



PIPES/TUBES



RODS



EMT CONDUIT

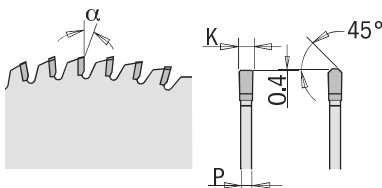


Suggested for Stainless steel of common use, such as 302, 303 and 304.

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

D mm	B mm	PIN HOLE ⊕ ⊖	Z	K mm	P mm	α	β	MAX RPM		ORDER NO.
160	20	2/6/32	40	1,8	1,4	0°	TCG	6000	10	226.540.06H ●
184	15,87	-	48	2,0	1,6	0°	TCG	6000	10	226.548.07
190	30	2/7/42	48	1,8	1,4	0°	TCG	6000	10	226.548.07M
216	30	2/7/42	56	1,8	1,4	0°	TCG	3500	10	226.556.09M ●
250	30	COMBI3	72	2,2	1,8	0°	10° FWF	3000	5	226.572.10M
254	15,87	-	72	2,2	1,8	0°	10° FWF	3000	5	226.572.10
300	30	COMBI3	80	2,2	1,8	0°	10° FWF	2000	5	226.580.12M
305	25,4	-	80	2,2	1,8	0°	10° FWF	2000	5	226.580.12
355	25,4	-	90	2,2	1,8	0°	10° FWF	2000	5	226.590.14
355	30	COMBI3	90	2,2	1,8	0°	10° FWF	2000	5	226.590.14M

● Ideal for FESTOOL®


223 INDUSTRIAL

MULTI-MATERIALS
Machines


CIRCULAR SAW



MITRE SAW



SQUARING



TABLE SAW

Blade diameter compatibility is contingent on machine type.

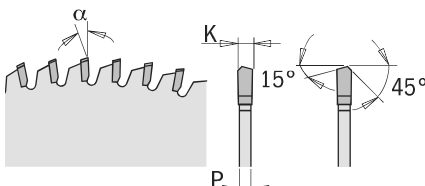
Materials


SOLID SURFACE



THICK PLASTIC

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	48	2,2	1,6	0°	MTCG	5	223.048.06H
250	30	COMBI3	72	3,2	2,5	0°	MTCG	1	223.072.10M
300	30	COMBI3	84	3,2	2,5	0°	MTCG	1	223.084.12M


222 INDUSTRIAL

MULTI-MATERIALS
Machines


SLIDE MITRE SAW



SQUARING



TABLE SAW

Blade diameter compatibility is contingent on machine type.

Materials


THIN PLASTIC



PLEXIGLASS®

D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	2,8	2,2	-3° Neg.	MATB	1	222.080.10M
300	30	COMBI3	96	2,8	2,2	-3° Neg.	MATB	1	222.096.12M



230.5

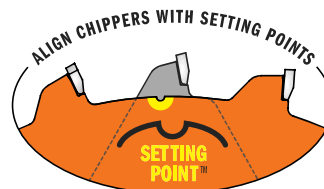
CMT designed a new Dado Precision Set with the following features:

- New Setting Points for chippers alignment.
- For flat bottom grooves & virtually splinter-free cuts in solid wood, laminates & melamines, veneer plywood.
- Includes shims (plastic & magnetic) and plastic "lock spacers" set for micro-thin adjustability.
- Orange Shield Coating protect from heat, gumming and corrosion.



WOOD

NOT FOR



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

Materials



Machines



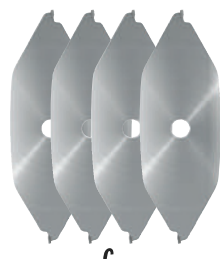
SET INCLUDES:

- A - Left Outside Blade (qty: 1)
- B - Right Outside Blade (qty: 1)
- C - Chippers 1/8" (qty: 4)
- D - Spacers 1/16" (qty: 2)
- E - Shims 0.004" (qty: 5)
- F - Shim 0.008" (qty: 1)
- G - Shim 0.012" (qty: 1)
- H - Shim 0.020" (qty: 1)

SPARE PART SET:
299.000.02



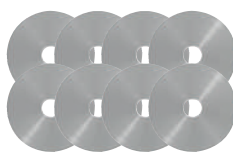
A-B



C



D



E-F-G-H

1/4" to 29/32"



Download instructions sheets from our website

Nominal Widths	1/4"	5/16"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32"	13/16"	27/32"	7/8"	29/32"
Left Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Right Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chipper 1/8"	0	0	0	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4
Spacer 1/16"	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	2	2
Shim 0.004"	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1
Shim 0.008"	0	0	1	0	1	0	1	1	1	1	1	1	1	1	1	0	1	0	1	0	1
Shim 0.012"	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1	1	1	1	1	1
Shim 0.020"	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1



Cuts all sizes from 1/4" up to 29/32"

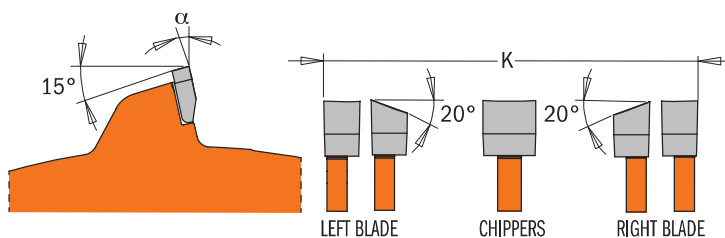


230.520.06

Sturdy reusable carrying case



230.524.08



D mm	B mm	Z	α	β		ORDER NO.
152	15,87	20	-12° Neg.	FLAT+ATB	3	230.520.06
203	15,87	24	-12° Neg.	FLAT+ATB	3	230.524.08



230.312

INTERNATIONAL PATENT PENDING

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

FEATURES:

- For flat bottom grooves & virtually splinter-free cuts in solid wood, laminates & melamines, veneer plywood.
- Orange Shield Coating protect from heat, gumming and corrosion.
- Includes shims (plastic & magnetic) and plastic "lock spacers" set for micro-thin adjustability.



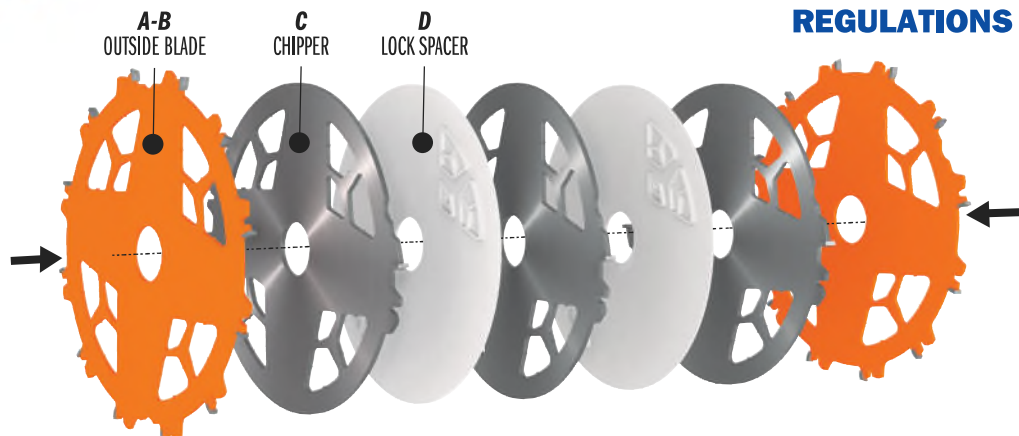
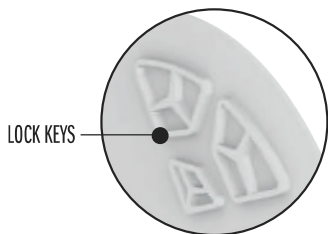
Always use both outside blades. Never use the chippers by themselves, or with only one outside blade. Securely fasten CMT Dado on machine using manufacturer's recommended dado arbor nut.



WOOD



First ever DADO in compliance with



Materials



Machines



Sturdy reusable carrying case



SET INCLUDES:

- A - Left Outside Blade 203mm (qty: 1)
- B - Right Outside Blade 203mm (qty: 1)
- C - Chippers 3.14mm (qty: 3)
- D - Lock Spacers 1.6mm (qty: 3)
- E - Shim 0.1mm (qty: 5)
- F - Shim 0.2mm (qty: 2)
- G - Magnetic Shim 0.3mm (qty: 1)
- H - Magnetic Shim 0.5mm (qty: 1)

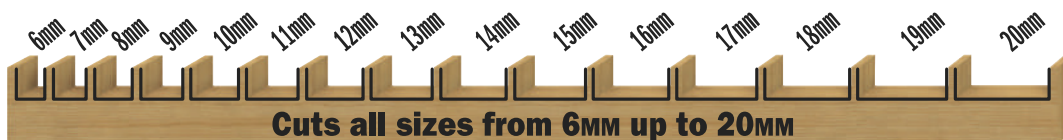
SPARE PART SET



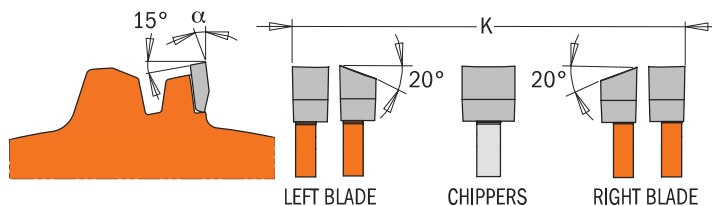
INSTRUCTIONS ON FRONT & BACK OF INSERT MUST BE USED TOGETHER



Download instructions sheets from our website



Nominal Widths	6mm	7mm	8mm	9mm	10mm	11mm	12mm	13mm	14mm	15mm	16mm	17mm	18mm	19mm	20mm
Left Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Right Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chipper 3.14mm	0	0	0	0	1	1	1	2	2	2	2	3	3	3	3
Lock Spacer 1.6mm	0	0	1	1	0	1	1	0	1	1	2	0	1	2	2
Shim 0.1mm	0	0	0	2	1	0	0	0	1	1	0	4	0	0	2
Shim 0.2mm	0	1	2	2	1	1	2	1	0	1	1	2	1	2	2
Mag. Shim 0.3mm	0	1	0	1	0	0	1	0	0	1	1	1	1	0	1
Mag. Shim 0.5mm	0	1	0	1	1	0	1	1	0	1	0	1	1	0	1

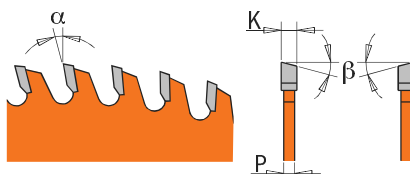


D mm	B mm	Z	α	β	ORDER NO.
203	15,87	12	-12° Neg.	FLAT+ATB	3 230.312.08
203	30	12	-12° Neg.	FLAT+ATB	3 230.312.08M

Spare parts: 299.000.08 Dado Pro Shim Set 230.312.08M
299.000.09 Dado Pro Shim Set 230.312.08



240 INDUSTRIAL



WOOD

Machines



TOUPIE



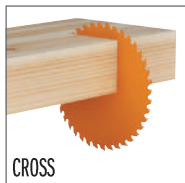
CHUCK CNC

Blade diameter compatibility is contingent on machine type.

Applications



GROOVING



CROSS

Materials



WOOD



PLYWOOD



MELAMINE

Suitable for these CNC chucks:



183.410.30



183.420.30



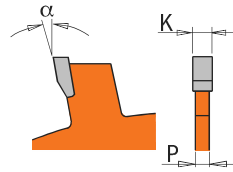
D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
150	30	4/6,5 - 12/48 45°	36	3,0	2,2	5°	5° ATB	10	240.150.030M
150	30	4/6,5 - 12/48 45°	36	4,0	3,0	5°	5° ATB	10	240.150.040M
150	30	4/6,5 - 12/48 45°	36	5,0	3,0	5°	5° ATB	10	240.150.050M
150	30	4/6,5 - 12/48 45°	36	6,0	3,0	5°	5° ATB	10	240.150.060M



240 INDUSTRIAL



WOOD



The new design allows blades stacking with different kerf thickness (see examples of stacking).

Machines



TOUPIE



CHUCK CNC

Blade diameter compatibility is contingent on machine type.

Applications



GROOVING/STACKING



GROOVING

Materials



WOOD



PLYWOOD



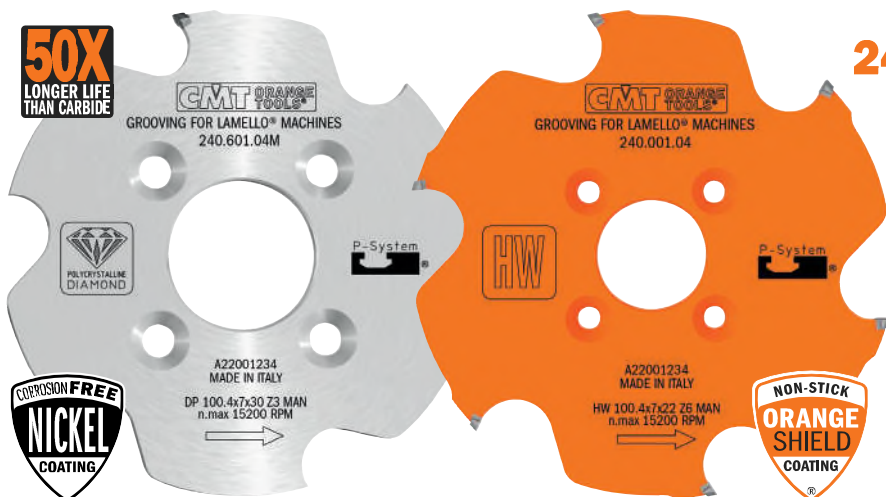
MELAMINE



D mm	B mm	PIN HOLE 	Z	K mm	P mm	α	β		ORDER NO.
150	30	-	12	2,0	1,4	15°	FLAT	10	240.020.06M
150	35	-	12	2,0	1,4	15°	FLAT	10	240.020.06R
150	30	-	12	3,0	2,0	15°	FLAT	10	240.030.06M
150	35	-	12	3,0	2,0	15°	FLAT	10	240.030.06R
150	30	-	12	4,0	3,0	15°	FLAT	10	240.040.06M
150	35	-	12	4,0	3,0	15°	FLAT	10	240.040.06R
150	30	-	12	5,0	3,0	15°	FLAT	10	240.050.06M
150	35	-	12	5,0	3,0	15°	FLAT	10	240.050.06R
150	30	-	12	6,0	3,0	15°	FLAT	10	240.060.06M
150	35	-	12	6,0	3,0	15°	FLAT	10	240.060.06R
180	30	-	18	3,0	2,0	15°	FLAT	10	240.030.07M
180	35	-	18	3,0	2,0	15°	FLAT	10	240.030.07R
180	30	-	18	4,0	3,0	15°	FLAT	10	240.040.07M
180	35	-	18	4,0	3,0	15°	FLAT	10	240.040.07R
180	30	-	18	5,0	3,0	15°	FLAT	10	240.050.07M
180	35	-	18	5,0	3,0	15°	FLAT	10	240.050.07R
180	30	-	18	6,0	3,0	15°	FLAT	10	240.060.07M
180	35	-	18	6,0	3,0	15°	FLAT	10	240.060.07R

Grooving System

CMT ORANGE TOOLS®

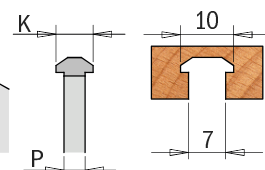
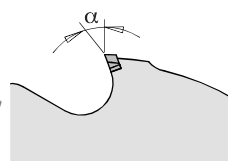


240 X TREME

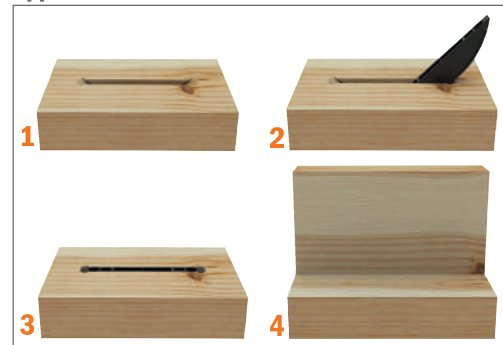
P-System®



WOOD



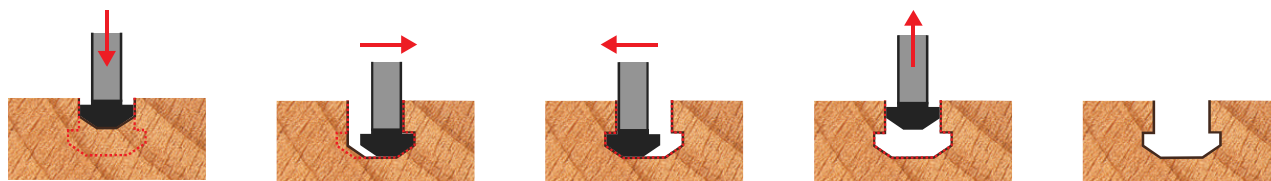
Applications



Machines



Materials

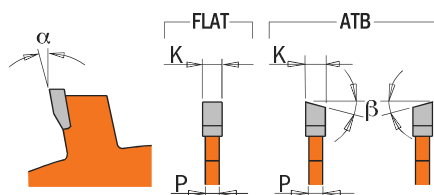


D mm	B mm	TEETH MATERIAL	MACHINE	PIN HOLE	Z	K mm	P mm	α	β	COATING TYPE		ORDER NO.
100,4	22	HW	LAMELLO® ZETA P®	4/4,5 - 9,5/36	6	7	4	20°	TCG	ORANGE SHIELD	10	240.001.04
100,4	22	DP	LAMELLO® ZETA P®	4/4,5 - 9,5/36	3	7	4	20°	TCG	NICKEL	10	240.601.04
100,4	30	DP	CNC	4/6,6 - 12/48	3	7	4	20°	TCG	NICKEL	10	240.601.04M

Biscuit Joiner



240-241 INDUSTRIAL

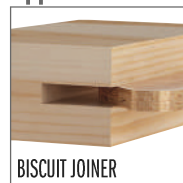


WOOD

Machines



Applications



Materials



D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
100	22	4/4,5 - 9,5/36	6	3,96	3,0	18°	10° ATB	10	240.006.04
100	22	4/4,5 - 9,5/36	8	3,96	3,0	15°	10° ATB	10	240.008.04
100	22	-	8	3,96	3,1-3,8	15°	FLAT	10	241.008.04 •

• Ideal for VIRUTEX®

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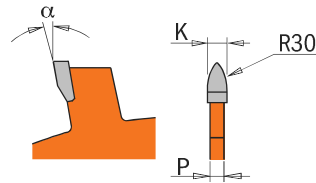
www.cmtorangetools.com



240.004.04 XTREME



WOOD



Machines



BISCUIT JOINER

Applications



PATCHWORK AND REPAIR

Materials



HARDWOOD



SOFTWOOD

D mm	B mm	MACHINE	Z	K mm	P mm	α	β		ORDER NO.
100	22	LAMELLO®	4	8,0	6,0	18°	R30	10	240.004.04

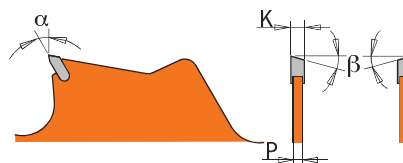
Clearing grass, bushes, small trees



298 ITK'PLUS®



MULTI-MATERIALS



SECURED TOOTH

SECURED TOOTH – MORE RESISTANT TO ACCIDENTAL CONTACT

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

HEAVY DUTY PLATE – THIN, LIGHT AND STRONG

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

SAFETY WARNING

Circular saw blades are suitable for thinning brush and cutting small trees up to a diameter of 5 cm (2 in) in thickness. Do not attempt to cut trees with larger diameters, since the blade may catch or jerk the clearing saw forward. This may cause damage to the blade or loss of control of the power tool and result in serious injury. Use a chain saw for such work. The operator shall ensure, while working, that no persons or animals come within 15 meters (50 feet) of the tool while in operation. Inspect the work area: remove stones, rocks, pieces of metal and other solid objects which could be thrown by the cutting attachment causing damage to objects or injury to those in close proximity. To reduce the risk of blade/teeth breakage, avoid all contact with terrain, rocks or stones, masonry work, metal parts, etc.

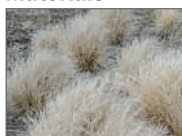


Machines

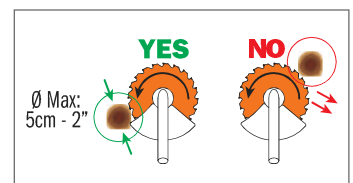


BRUSH CUTTER

Materials

BUSHES & SMALL TREES
(up to a diameter of Ø5 cm)

GRASS



D mm	B mm	RPM max	Z	K mm	P mm	α	β		ORDER NO.
250	25,4 (+20)	12.000	20	2,0	1,4	2°	8° ATB	10	298.250.20
250	25,4 (+20)	12.000	40	2,0	1,4	2°	8° ATB	10	298.250.40



299.11

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



D mm	B mm	P mm		ORDER NO.
200	30	2,8	10	299.111.00M
250	30	2,8	10	299.112.00M

Saw Blades Stabilizers



299.10

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

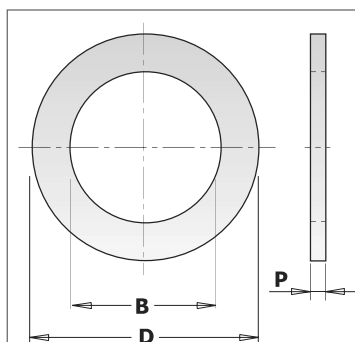


DESCRIPTION	D mm	B mm	P mm		ORDER NO.
Stabilizer (2 pcs.) for Ø200mm	75	30	3,0	5	299.101.00M
Stabilizer (2 pcs.) for Ø250mm	125	30	3,0	5	299.102.00M
Stabilizer (2 pcs.) for Ø300mm	152	30	3,0	5	299.103.00M

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

Reduction Rings for Saw Blades

299



D mm	B mm	P mm		ORDER NO.	D mm	B mm	P mm		ORDER NO.
15,87	10	1,2	10	299.218.00	30	15,87	2,0	10	299.303.00
15,87	12,7	1,2	10	299.217.00	30	16	1,2	10	299.451.00
20	12,7	1,2	10	299.221.00	30	16	1,4	10	299.223.00
20	12,7	1,6	10	299.401.00	30	16	2,0	10	299.226.00
20	13	1,6	10	299.402.00	30	18	1,4	10	299.232.00
20	15	1,6	10	299.403.00	30	19,05	1,4	10	299.241.00
20	15,87	1,4	10	299.243.00	30	19,05	2,0	10	299.305.00
20	16	1,0	10	299.351.00	30	20	1,2	10	299.452.00
20	16	1,2	10	299.222.00	30	20	1,4	10	299.224.00
20	16	1,6	10	299.404.00	30	20	2,0	10	299.227.00
20	18	1,4	10	299.236.00	30	22	1,4	10	299.231.00
22,2	15	1,4	10	299.237.00	30	25	1,2	10	299.453.00
22,2	16	1,4	10	299.242.00	30	25	1,4	10	299.225.00
22,2	20	1,4	10	299.238.00	30	25	2,0	10	299.228.00
25	16	2,0	10	299.301.00	30	25,4	1,6	10	299.405.00
25	20	2,0	10	299.302.00	30	25,4	2,0	10	299.212.00
25,4	15,87	1,4	10	299.216.00	32	20	2,0	10	299.309.00
25,4	19,05	1,4	10	299.213.00	32	30	2,0	10	299.229.00
25,4	20	1,4	10	299.214.00	35	20	2,0	10	299.311.00
25,4	20	2,3	10	299.220.00	35	25	2,0	10	299.312.00
25,4	22	1,4	10	299.215.00	35	25,4	2,0	10	299.313.00
25,4	22,2	1,4	10	299.239.00	35	30	2,0	10	299.230.00
25,4	22,2	2,3	10	299.219.00	35	32	2,0	10	299.233.00
30	15	1,4	10	299.240.00	40	30	2,0	10	299.316.00
30	15,87	1,4	10	299.211.00					

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
50	10	WOOD	20	1,1	0,8	15°	10° ATB	273.050.20D	31
70	20	WOOD	8+8	2,8-3,6		12°	FLAT	289.070.16H	44
80	10	WOOD	36	1,6	1,0	15°	10° ATB	273.080.36D	31
80	20	WOOD	12	3,1-3,6	2,2	10°	CO+FLAT	S288.080.12H	45
80	20	WOOD	10+10	2,8-3,6		12°	FLAT	289.080.20H	44
85	15	MULTI-MATERIALS	6	1,8	1,4	12°	TCG	236.085.06G	10
85	15	WOOD	24	1,1	0,7	12°	5° ATB	K02403	12
100	20	WOOD	20	3,1-4,0	2,2	5°	CO+5° ATB	288.100.20H	45
100	20	WOOD	10+10	2,8-3,6		12°	FLAT	289.100.20H	44
100	22	WOOD	4	8	6	18°	R30	240.004.04	63
100	22	WOOD	6	3,96	3	18°	10° ATB	240.006.04	63
100	22	WOOD	8	3,96	3	15°	10° ATB	240.008.04	63
100	22	WOOD	8	3,96	3,1-3,8	15°	FLAT	241.008.04	63
100	22	WOOD	20	3,1-4,0	2,2	5°	CO+5° ATB	288.100.20K	45
100	22	WOOD	10+10	2,8-3,6		12°	FLAT	289.100.20K	44
100,4	22	WOOD	3	7	4	20°	TCG	240.601.04	62
100,4	22	WOOD	6	7	4	20°	TCG	240.001.04	62
100,4	30	WOOD	3	7	4	20°	TCG	240.601.04M	62
115	9,5	WOOD	24	1,5	1,0	20°	10° ATB + 8° Shear	272.115.24	27
120	20	WOOD	18	1,8	1,2	15°	15° ATB	291.120.18H	22
120	20	WOOD	20	3,1-3,7	2,2	5°	CONICAL	238.120.20H	46
120	20	WOOD	24	3,1-4,0	2,2	5°	CO+5° ATB	288.120.24H	45
120	20	WOOD	24	3,4-4,2	2,5	5°	CO+5° ATB	288.120.24H1	45
120	20	NON-FERROUS	36	1,8	1,2	-6° Neg.	TCG	296.120.36H	50
120	20	WOOD	40	1,8	1,2	10°	15° ATB	292.120.40H	26
120	20	WOOD	12+12	2,8-3,6		12°	FLAT	289.120.24H	44
120	22	WOOD	24	3,1-4,0	2,2	5°	CO+5° ATB	288.120.24K	45
120	22	WOOD	12+12	2,8-3,6		12°	FLAT	289.120.24K	44
120	50	WOOD	12+12	2,8-3,6		12°	FLAT	289.120.24T	44
125	20	WOOD	20	2,4	1,4	15°	15° ATB	291.125.20H	22
125	20	WOOD	20	3,1-3,7	2,2	5°	CONICAL	238.125.20H	46
125	20	WOOD	24	3,1-4,0	2,2	5°	CO+5° ATB	288.125.24H	45
125	20	WOOD	24	3,4-4,2	2,5	5°	CO+5° ATB	288.125.24H1	45
125	20	WOOD	24	4,3-5,5	3,2	10°	CO+FLAT	288.125.24H2	45
125	20	WOOD	36	2,4	1,4	15°	15° ATB	292.125.36H	26
125	20	WOOD	12+12	2,8-3,6		12°	FLAT	289.125.24H	44
125	22	WOOD	24	3,1-4,0	2,2	5°	CO+5° ATB	288.125.24K	45
125	22	WOOD	12+12	2,8-3,6		12°	FLAT	289.125.24K	44
125	22,2	MULTI-MATERIALS	7	2	1,4	5°	TCG	236.125.07	10
125	45	WOOD	24	4,3-5,5	3,2	10°	CO+FLAT	288.125.24Q	45
130	20	WOOD	20	2,4	1,4	15°	15° ATB	291.130.20H	22
130	20	WOOD	36	2,4	1,4	15°	15° ATB	292.130.36H	26
136	10	METAL & STEEL	30	1,5	1,2	0°	8° FWF	226.030.05	55
136	20	WOOD	18	1,5	1	15°	15° ATB	K13618H-X10	12
136	20	METAL & STEEL	30	1,5	1,2	0°	8° FWF	226.030.05H	55
136	20 (+10)	WOOD	18	1,5	1,0	20°	10° ATB + 8° Shear	271.136.18H	23
136	20 (+10)	WOOD	36	1,5	1,0	18°	10° ATB + 8° Shear	272.136.36H	27
136	20 (+10)	METAL & STEEL	56	1,5	1,2	0°	8° FWF	226.136.56H	54
140	16	WOOD	24	3,1-4,0	2,2	10°	CO+FLAT	Y288.140.24E	45
140	20	WOOD	20	2,4	1,4	15°	15° ATB	291.140.20H	22
140	20	WOOD	24	1,8	1,2	15°	15° ATB + 8° Shear	271.140.24H	23
140	20	WOOD	36	2,4	1,4	15°	15° ATB	292.140.36H	26
140	20	WOOD	42	1,8	1,2	5°	15° ATB + 8° Shear	272.140.42H	27
140	20	NON-FERROUS	48	1,8	1,2	-6° Neg.	TCG	276.140.48H	51
150	16	WOOD	24	2,4	1,4	15°	15° ATB	291.150.24E	22
150	20	WOOD	12	2,4	1,4	20°	10° ATB	290.150.12H	18
150	20	METAL & STEEL	32	1,6	1,2	0°	8° FWF	226.032.06H	55
150	20	WOOD	40	2,4	1,4	15°	15° ATB	292.150.40H	26
150	20	METAL & STEEL	60	1,6	1,2	0°	8° FWF	226.150.60H	54
150	30	WOOD	12	2	1,4	15°	FLAT	240.020.06M	61

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
150	30	WOOD	12	3	2	15°	FLAT	240.030.06M	61
150	30	WOOD	36	3	2,2	5°	5° ATB	240.150.030M	60
150	30	WOOD	36	4	3	5°	5° ATB	240.150.040M	60
150	30	WOOD	36	5	3	5°	5° ATB	240.150.050M	60
150	30	WOOD	36	6	3	5°	5° ATB	240.150.060M	60
150	30	WOOD	48	3,2	2,2	5°	15° ATB	285.048.06M	26
150	30	WOOD	12	4	3	15°	FLAT	240.040.06M	61
150	30	WOOD	12	5	3	15°	FLAT	240.050.06M	61
150	30	WOOD	12	6	3	15°	FLAT	240.060.06M	61
150	35	WOOD	12	2	1,4	15°	FLAT	240.020.06R	61
150	35	WOOD	12	3	2	15°	FLAT	240.030.06R	61
150	35	WOOD	12	4	3	15°	FLAT	240.040.06R	61
150	35	WOOD	12	5	3	15°	FLAT	240.050.06R	61
150	35	WOOD	12	6	3	15°	FLAT	240.060.06R	61
150	20 (+16)	WOOD	24	1,5	1	18°	10° ATB + 8° Shear	271.150.24H	23
150	20 (+16)	WOOD	24	2,4	1,4	15°	15° ATB	291.150.24H	22
150	20 (+16)	WOOD	40	1,5	1	16°	10° ATB + 8° Shear	272.150.40H	27
152	15,87	WOOD	20			-12° Neg.	FLAT+ATB	230.520.06	58
160	16	WOOD	12	2,2	1,6	20°	10° ATB	290.160.12E	18
160	20	MULTI-MATERIALS	4	2,4	1,8	12°	TCG	236.160.04H	10
160	20	MULTI-MATERIALS	10	2,4	1,8	5°	TCG	236.160.10H	10
160	20	MULTI-MATERIALS	20	2,2	1,6	10°	HR	235.160.20H	47
160	20	WOOD	24	2,2	1,4	15°	15° ATB	K16024H-X10	12
160	20	WOOD	24	2,2	1,6	15°	15° ATB	291.160.24H	22
160	20	NON-FERROUS	24	2,2	1,6	5°	TCG	284.160.24H	48
160	20	WOOD	28	2,2	1,6	15°	10° ATB	285.160.28H	22
160	20	METAL & STEEL	30	2	1,6	0°	8° FWF	226.030.06H	55
160	20	WOOD	34	2,6	1,8	10°	HDF	287.034.06H	37
160	20	WOOD	40	2,2	1,4	10°	15° ATB	K16040H-X10	12
160	20	WOOD	40	2,2	1,6	10°	15° ATB	292.160.40H	26
160	20	NON-FERROUS	40	2,2	1,6	-6° Neg.	TCG	296.160.40H	50
160	20	WOOD	48	2,2	1,6	5°	15° ATB	285.160.48H	26
160	20	WOOD	48	2,2	1,6	5°	12° ATB	285.760.48H	28
160	20	WOOD	48	2,2	1,6	4°	TCG	281.760.48H	39
160	20	WOOD	48	2,2	1,6	5°	TCG	281.160.48H	42
160	20	MULTI-MATERIALS	48	2,2	1,6	0°	MTCG	223.048.06H	57
160	20	NON-FERROUS	52	2,2	1,8	-5° Neg.	TCG	296.760.52H	49
160	20	WOOD	56	2,2	1,6	15°	15° ATB	292.160.56H	30
160	20	WOOD	56	2,2	1,6	-3° Neg.	TCG	281.161.56H	42
160	20	NON-FERROUS	56	2,2	1,6	-6° Neg.	TCG	296.160.56H	50
160	30	WOOD	40	2,2	1,6	10°	15° ATB	292.160.40M	26
160	45	WOOD	36	4,3-5,5	3,2	10°	CO+FLAT	288.160.36Q	45
160	55	WOOD	36	4,3-5,5	3,2	10°	CO+FLAT	288.160.36Q	45
160	20	METAL & STEEL	40	1,8	1,4	0°	TCG	226.540.06H	56
160	20 (+16)	METAL & STEEL	60	2	1,6	0°	8° FWF	226.160.60H	54
160	20 (+16)	WOOD	12	2,2	1,6	20°	10° ATB	290.160.12H	18
160	20 (+16)	WOOD	24	1,8	1,2	18°	10° ATB + 8° Shear	271.160.24H	23
160	20 (+16)	WOOD	40	1,8	1,2	16°	10° ATB + 8° Shear	272.160.40H	27
160	20 (+16)	NON-FERROUS	48	1,8	1,2	-6° Neg.	TCG	276.160.48H	51
160	20 (+16)	WOOD	56	1,8	1,2	12°	10° ATB + 8° Shear	273.160.56H	31
160	20 (VIRUTEX®)	WOOD	40	2,2	1,6	10°	TCG	281.160.40H	42
160	30 (+16)	WOOD	24	2,2	1,6	15°	15° ATB	291.160.24M	22
165	20	WOOD	24	1,7	1,1	15°	15° ATB	K16524H-X10	12
165	20	WOOD	24	2,2	1,6	15°	15° ATB	291.165.24H	22
165	20	METAL & STEEL	36	1,6	1,2	0°	8° FWF	226.036.06H	55
165	20	WOOD	40	2,2	1,6	10°	15° ATB	292.165.40H	26
165	20	NON-FERROUS	40	2,2	1,6	-6° Neg.	TCG	296.165.40H	50
165	20	WOOD	56	2,2	1,6	15°	15° ATB	292.165.56H	30
165	20	WOOD	56	2,2	1,6	-3° Neg.	TCG	281.166.56H	42
165	20	NON-FERROUS	56	2,2	1,6	-6° Neg.	TCG	296.165.56H	50

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
165	20	METAL & STEEL	60	1,6	1,2	0°	8° FWF	226.165.60H	54
165	30	WOOD	24	1,7	1,1	18°	10° ATB + 8° Shear	271.165.24M	23
165	30	WOOD	24	2,6	1,6	15°	15° ATB	291.165.24M	22
165	30	METAL & STEEL	36	1,6	1,2	0°	8° FWF	226.036.06M	55
165	30	WOOD	40	2,6	1,6	10°	15° ATB	292.165.40M	26
165	15,87	METAL & STEEL	36	1,6	1,2	0°	8° FWF	226.036.06	55
165	20 (+15,87)	MULTI-MATERIALS	4	1,8	1,4	12°	TCG	236.165.04H	10
165	20 (+15,87)	MULTI-MATERIALS	10	1,8	1,4	5°	TCG	236.165.10H	10
165	20 (+15,87)	WOOD	24	1,7	1,1	18°	10° ATB + 8° Shear	271.165.24H	23
165	20 (+15,87)	WOOD	36	1,7	1,1	20°	10° ATB + 8° Shear	272.165.36H	27
165	20 (+15,87)	WOOD	56	1,6	1	12°	15° ATB + 8° Shear	273.165.56H	31
165	20 (+15,87)	NON-FERROUS	56	1,8	1,2	-6° Neg.	TCG	276.165.56H	51
170	30	WOOD	24	2,6	1,6	20°	10° ATB	291.170.24M	22
170	30	WOOD	40	2,6	1,6	15°	15° ATB	292.170.40M	26
180	20	MULTI-MATERIALS	4	2,4	1,8	12°	TCG	236.180.04H	10
180	20	WOOD	24	2,6	1,6	20°	10° ATB	291.180.24H	22
180	20	WOOD	36	4,3-5,5	3,2	10°	CO+FLAT	Y288.180.36H	45
180	20	WOOD	40	2,6	1,6	15°	15° ATB	292.180.40H	26
180	20	NON-FERROUS	40	2,8	2,2	-6° Neg.	TCG	296.180.40H	50
180	30	WOOD	12	2,6	1,6	20°	10° ATB	290.180.12M	18
180	30	WOOD	24	2,6	1,6	20°	10° ATB	291.180.24M	22
180	30	WOOD	36	4,5-5,5	3,2	10°	CO+FLAT	288.180.36M	45
180	30	WOOD	40	2,6	1,6	15°	15° ATB	292.180.40M	26
180	30	WOOD	56	3,2	2,2	5°	15° ATB	285.056.07M	26
180	30	WOOD	18	3	2	15°	FLAT	240.030.07M	61
180	30	WOOD	18	4	3	15°	FLAT	240.040.07M	61
180	30	WOOD	18	5	3	15°	FLAT	240.050.07M	61
180	30	WOOD	18	6	3	15°	FLAT	240.060.07M	61
180	35	WOOD	18	3	2	15°	FLAT	240.030.07R	61
180	35	WOOD	18	4	3	15°	FLAT	240.040.07R	61
180	35	WOOD	18	5	3	15°	FLAT	240.050.07R	61
180	35	WOOD	18	6	3	15°	FLAT	240.060.07R	61
180	40	WOOD	21+3	2,5	1,8	30	FLAT	280.021.07S	14
180	45	WOOD	36	4,3-5,5	3,2	8°	CO+5° ATB	288.180.36Q2	45
180	45	WOOD	36	4,7-6,0	3,5	10°	CO+FLAT	288.180.36Q	45
180	50	WOOD	44	4,3-5,5	3,2	10°	CO+FLAT	288.180.44T	45
180	55	WOOD	36	5,0-6,2	3,5	10°	CO+FLAT	288.180.360	45
184	15,87	METAL & STEEL	48	2	1,6	0°	8° FWF	226.048.07	55
184	16	WOOD	24	2,6	1,6	20°	10° ATB	291.184.24E	22
184	16	WOOD	40	2,6	1,6	15°	15° ATB	292.184.40E	26
184	30	WOOD	24	1,7	1,1	20°	10° ATB + 8° Shear	271.184.24M	23
184	30	WOOD	24	2,6	1,6	20°	10° ATB	291.184.24M	22
184	30	WOOD	40	1,7	1,1	18°	10° ATB + 8° Shear	272.184.40M	27
184	30	WOOD	40	2,6	1,6	15°	15° ATB	292.184.40M	26
184	15,87	METAL & STEEL	48	2	1,6	0°	TCG	226.548.07	56
184	20 (+16+15,87)	WOOD	24	1,7	1,1	20°	10° ATB + 8° Shear	271.184.24H	23
184	20 (+16+15,87)	WOOD	40	1,7	1,1	18°	10° ATB + 8° Shear	272.184.40H	27
184	20 (+16+15,87)	NON-FERROUS	48	1,8	1,2	-6° Neg.	TCG	276.184.48H	51
184	30 (+16+20)	METAL & STEEL	64	2	1,6	0°	8° FWF	226.184.64M	54
190	16	WOOD	12	2,6	1,6	20°	10° ATB	290.190.12E	18
190	16	WOOD	24	2,6	1,6	20°	10° ATB	291.190.24E	22
190	20	WOOD	12	2,6	1,6	20°	10° ATB	290.190.12H	18
190	20	WOOD	24	2,6	1,6	20°	10° ATB	291.190.24H	22
190	30	MULTI-MATERIALS	4	2,4	1,8	12°	TCG	236.190.04M	10
190	30	MULTI-MATERIALS	12	2,4	1,8	12°	TCG	236.190.12M	10
190	30	WOOD	24	2,2	1,4	20°	10° ATB	K19024M-X10	12
190	30	MULTI-MATERIALS	24	2,5	2	10°	HR	235.190.24M	47
190	30	WOOD	24	2,6	1,6	20°	10° ATB	291.190.24M	22
190	30	NON-FERROUS	30	2,6	2,2	5°	TCG	284.190.30M	48
190	30	METAL & STEEL	40	2	1,6	0°	8° FWF	226.040.07M	55

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
190	30	WOOD	40	2,6	1,6	15°	15° ATB	292.190.40M	26
190	30	NON-FERROUS	40	2,8	2,2	-6° Neg.	TCG	296.190.40M	50
190	30	WOOD	64	2,6	1,6	15°	15° ATB	292.190.64M	30
190	30	NON-FERROUS	64	2,8	2,2	-6° Neg.	TCG	296.190.64M	50
190	30	METAL & STEEL	48	1,8	1,4	0°	TCG	226.548.07M	56
190	30 (+20)	METAL & STEEL	64	2	1,6	0°	8° FWF	226.190.64M	54
190	20 (+16)	WOOD	40	2,6	1,6	15°	15° ATB	292.190.40H	26
190	20 (FESTOOL® FF)	WOOD	32	2,6	1,8	10°	10° ATB	291.190.32FF	22
190	20 (FESTOOL® FF)	WOOD	48	2,4	1,8	10°	15° ATB	292.190.48FF	26
190	20 (FESTOOL® FF)	WOOD	48	2,4	1,8	8°	15° ATB	285.790.48FF	28
190	20 (FESTOOL® FF)	WOOD	54	2,6	1,8	4°	TCG	281.790.54FF	39
190	20 (FESTOOL® FF)	WOOD	54	2,6	1,8	4°	TCG	281.190.54FF	41
190	20 (FESTOOL® FF)	NON-FERROUS	64	2,8	2,2	-6° Neg.	TCG	296.190.64FF	50
190	30 (+20+16)	WOOD	12	2,6	1,6	20°	10° ATB	290.190.12M	18
190	30 (+20+16)	WOOD	24	1,7	1,1	20°	10° ATB + 8° Shear	271.190.24M	23
190	30 (+20+16)	WOOD	42	1,7	1,1	18°	10° ATB + 8° Shear	272.190.42M	27
190	30 (+20+16)	WOOD	64	1,7	1,1	15°	10° ATB + 8° Shear	273.190.64M	31
190	30 (+20+16)	NON-FERROUS	64	1,8	1,2	-6° Neg.	TCG	276.190.64M	51
200	20	WOOD	36	4,4-5,3	3,2	10°	CO+FLAT	288.200.36H	45
200	30	WOOD	24	2,8	1,8	20°	10° ATB	290.200.24M	18
200	30	WOOD	36	1,8	1,2	15°	10° ATB + 8° Shear	271.200.36M	23
200	30	WOOD	36	2,8	1,8	15°	15° ATB	291.200.36M	22
200	30	WOOD	36	3,2	2,2	15°	10° ATB	285.036.08M	22
200	30	WOOD	48	1,8	1,2	15°	10° ATB + 8° Shear	272.200.48M	27
200	30	WOOD	48	2,8	1,8	15°	15° ATB	292.200.48M	26
200	30	NON-FERROUS	48	2,8	2,2	-6° Neg.	TCG	296.200.48M	50
200	30	WOOD	48	3,2	2,2	15°	15° ATB	285.048.08M	26
200	30	WOOD	64	3,2	2,2	5°	15° ATB	285.064.08M	30
200	30	WOOD	64	3,2	2,2	10°	TCG	281.064.08M	42
200	32	METAL & STEEL	0	1,8			Not Sharpened	227.200P	53
200	32	METAL & STEEL	160	1,8			BW	227.200.160P	53
200	40	WOOD	21+3	2,5	1,8	35	FLAT	280.021.08S	14
200	45	WOOD	36	4,3-5,5	3,2	10°	CO+FLAT	Y288.200.36Q2	45
200	45	WOOD	36	4,7-6,0	3,5	10°	CO+FLAT	288.200.36Q	45
200	65	WOOD	36	4,4-5,3	3,2	10°	CO+FLAT	288.200.36J	45
203	15,87	WOOD	12			-12° Neg.	FLAT+ATB	230.312.08	59
203	15,87	WOOD	24			-12° Neg.	FLAT+ATB	230.524.08	58
203	15,87	METAL & STEEL	48	2,2	1,8	0°	8° FWF	226.048.08	55
203	30	WOOD	12			-12° Neg.	FLAT+ATB	230.312.08M	59
210	25	WOOD	36	2,8	1,8	15°	15° ATB	291.210.36L	22
210	25	WOOD	48	2,8	1,8	15°	15° ATB	292.210.48L	26
210	30	MULTI-MATERIALS	12	2,4	1,8	12°	TCG	236.210.12M	10
210	30	WOOD	24	2,8	1,8	20°	10° ATB	290.210.24M	18
210	30	WOOD	36	2,8	1,8	15°	15° ATB	291.210.36M	22
210	30	METAL & STEEL	48	2,2	1,8	0°	8° FWF	226.048.08M	55
210	30	WOOD	48	2,8	1,8	15°	15° ATB	292.210.48M	26
210	30	NON-FERROUS	48	2,8	2,2	-6° Neg.	TCG	296.210.48M	50
210	30	WOOD	64	2,8	1,8	15°	15° ATB	292.210.64M	30
210	30	NON-FERROUS	64	2,8	2,2	-6° Neg.	TCG	296.210.64M	50
210	30	METAL & STEEL	64	2,2	1,8	0°	8° FWF	226.210.64M	54
210	30 (+25)	WOOD	24	1,8	1,2	20°	10° ATB + 8° Shear	271.210.24M	23
210	30 (+25)	WOOD	36	1,8	1,2	15°	10° ATB + 8° Shear	271.210.36M	23
210	30 (+25)	WOOD	48	1,8	1,2	15°	10° ATB + 8° Shear	272.210.48M	27
210	30 (+25)	NON-FERROUS	64	1,8	1,2	-6° Neg.	TCG	276.210.64M	51
215	50	WOOD	42	4,3-5,5	3,2	8°	CO+FLAT	288.215.42T	45
216	30	MULTI-MATERIALS	14	2,4	1,8	12°	TCG	236.216.14M	10
216	30	WOOD	24	2,4	1,6	-5° Neg.	15° ATB	K21624M-X10	12
216	30	WOOD	24	2,8	1,8	-5° Neg.	15° ATB	290.216.24M	18
216	30	MULTI-MATERIALS	30	2,5	2	10°	HR	235.216.30M	47
216	30	WOOD	36	1,8	1,2	-5° Neg.	10° ATB + 8° Shear	271.216.36M	23

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
216	30	NON-FERROUS	40	2,6	2,2	5°	TCG	284.216.40M	48
216	30	WOOD	48	1,8	1,2	-5° Neg.	10° ATB + 8° Shear	272.216.48M	27
216	30	METAL & STEEL	48	2,2	1,8	0°	8° FWF	226.047.09M	55
216	30	WOOD	48	2,3	1,6	-5° Neg.	15° ATB	285.816.48M	24
216	30	WOOD	48	2,4	1,6	-5° Neg.	15° ATB	K21648M-X10	12
216	30	WOOD	48	2,8	1,8	-5° Neg.	15° ATB	291.216.48M	22
216	30	WOOD	60	2,3	1,6	-5° Neg.	15° ATB	285.816.60M	28
216	30	WOOD	64	1,8	1,2	-5° Neg.	10° ATB + 8° Shear	273.216.64M	31
216	30	NON-FERROUS	64	2,2	1,6	-6° Neg.	TCG	276.216.64M	51
216	30	NON-FERROUS	64	2,3	1,6	0°	TCG	297.816.64M	49
216	30	WOOD	64	2,8	1,8	-5° Neg.	15° ATB	292.216.64M	26
216	30	NON-FERROUS	64	2,8	2,2	-6° Neg.	TCG	297.064.09M	50
216	30	WOOD	80	2,8	1,8	-5° Neg.	15° ATB	292.216.80M	30
216	30	NON-FERROUS	80	2,8	2,2	-6° Neg.	TCG	297.080.09M	50
216	30	METAL & STEEL	56	1,8	1,4	0°	TCG	226.556.09M	56
216	30	METAL & STEEL	64	2,2	1,8	0°	8° FWF	226.216.64M	54
220	30	WOOD	24	2,8	1,8	20°	10° ATB	290.220.24M	18
220	30	WOOD	36	2,8	1,8	15°	15° ATB	291.220.36M	22
220	30	WOOD	42	3,2	2,2	-6° Neg.	HDF	287.043.09M	36
220	30	WOOD	42	3,2	2,2	10°	HDF	287.042.09M	37
220	30	WOOD	48	2,8	1,8	15°	15° ATB	292.220.48M	26
220	30	WOOD	63	3,2	2,2	-3° Neg.	FFT	281.063.09M	38
220	30	WOOD	64	3,2	2,2	-5° Neg.	40° Hi-ATB	283.064.09M	33
220	30	WOOD	64	3,2	2,2	10°	TCG	281.064.09M	42
225	30	WOOD	36	2,8	1,8	20°	15° ATB	291.225.36M	22
225	30	WOOD	48	2,8	1,8	10°	15° ATB	292.225.48M	26
225	30	WOOD	64	2,6	1,8	4°	TCG	281.225.64M	42
225	30	NON-FERROUS	64	2,8	2,2	-6° Neg.	TCG	296.225.64M	50
225	32	METAL & STEEL	0	1,9			Not Sharpened	227.225P	53
225	32	METAL & STEEL	180	1,9			BW	227.225.180P	53
230	30	MULTI-MATERIALS	4	2,4	1,8	12°	TCG	236.230.04M	10
230	30	WOOD	24	2,8	1,8	20°	10° ATB	290.230.24M	18
230	30	WOOD	36	2,8	1,8	15°	15° ATB	291.230.36M	22
230	30	WOOD	48	2,8	1,8	15°	15° ATB	292.230.48M	26
230	30	NON-FERROUS	48	2,8	2,2	-6° Neg.	TCG	296.230.48M	50
230	30	WOOD	64	2,8	1,8	15°	15° ATB	292.230.64M	30
235	25	WOOD	24	2,8	1,8	20°	10° ATB	290.235.24L	18
235	25	WOOD	36	1,7	1,2	20°	1 FLAT+2/15° ATB	271.235.36L	23
235	25	WOOD	36	2,8	1,8	15°	15° ATB	291.235.36L	22
235	25	WOOD	48	2,8	1,8	15°	15° ATB	292.235.48L	26
235	30	WOOD	36	2,8	1,8	15°	15° ATB	291.235.36M	22
235	30	METAL & STEEL	48	2,2	1,8	0°	8° FWF	226.048.09M	55
235	30	WOOD	48	2,8	1,8	15°	15° ATB	292.235.48M	26
235	30	NON-FERROUS	48	2,8	2,2	-6° Neg.	TCG	296.235.48M	50
235	30 (+25)	WOOD	24	2,8	1,8	20°	10° ATB	290.235.24M	18
235	30 (+25)	WOOD	36	2,4	1,6	18°	10° ATB + 8° Shear	271.235.36M	23
235	30 (+25)	WOOD	48	2,4	1,6	18°	10° ATB + 8° Shear	272.235.48M	27
240	30	WOOD	24	2,8	1,8	20°	10° ATB	290.240.24M	18
240	30	WOOD	36	2,8	1,8	15°	15° ATB	291.240.36M	22
240	30	WOOD	48	2,8	1,8	15°	15° ATB	292.240.48M	26
250	20	WOOD	40	3,2	2,2	15°	10° ATB	285.040.10H	21
250	30	MULTI-MATERIALS	16	2,4	1,8	12°	TCG	236.250.16M	10
250	30	WOOD	16	2,8	1,8	15°	5° ATB	286.016.10M	11
250	30	WOOD	24	2,4	1,6	20°	10° ATB + 8° Shear	271.250.24M	19
250	30	WOOD	24	2,8	1,8	20°	10° ATB	290.250.24M	18
250	30	WOOD	24	3,2	2,2	10°	FLAT	285.624.10M	17
250	30	MULTI-MATERIALS	36	2,5	2	10°	HR	235.250.36M	47
250	30	WOOD	40	2,6	1,8	15°	10° ATB	K25040M-X05	12
250	30	WOOD	40	3,2	2,2	15°	10° ATB	285.640.10M	20
250	30	WOOD	40	3,2	2,2	15°	10° ATB	285.040.10M	21

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
250	30	WOOD	42	2,4	1,6	18°	10° ATB + 8° Shear	271.250.42M	23
250	30	WOOD	48	3,2	2,2	15°	10° ATB	285.048.10M	21
250	30	WOOD	48	3,2	2,2	-6° Neg.	HDF	287.049.10M	36
250	30	WOOD	48	3,2	2,2	10°	HDF	287.048.10M	37
250	30	WOOD	48	3,2	2,2	10°	45° TCG	237.048.10M	46
250	30	WOOD	60	2,4	1,6	15°	10° ATB + 8° Shear	272.250.60M	27
250	30	WOOD	60	3,2	2,2	10°	15° ATB	285.660.10M	24
250	30	WOOD	60	3,2	2,2	10°	15° ATB	285.060.10M	25
250	30	WOOD	60	3,2	2,2	-3° Neg.	FFT	281.061.10M	38
250	30	WOOD	60	3,2	2,2	10°	TCG	281.060.10M	41
250	30	MULTI-MATERIALS	72	3,2	2,5	0°	MTCG	223.072.10M	57
250	30	WOOD	78	3,2	2,2	10°	FFT	295.078.10M	40
250	30	WOOD	80	2,4	1,6	12°	10° ATB + 8° Shear	273.250.80M	31
250	30	NON-FERROUS	80	2,6	1,8	-6° Neg.	TCG	276.250.80M	51
250	30	MULTI-MATERIALS	80	2,8	2,2	-3° Neg.	MATB	222.080.10M	57
250	30	WOOD	80	3	2,5	10°	20° ATB	285.580.10M	35
250	30	WOOD	80	3,2	2,2	5°	15° ATB	285.680.10M	28
250	30	WOOD	80	3,2	2,2	5°	15° ATB	285.080.10M	29
250	30	WOOD	80	3,2	2,2	-2° Neg.	38° Hi-ATB	283.680.10M	32
250	30	WOOD	80	3,2	2,2	-2° Neg.	40° Hi-ATB	283.080.10M	33
250	30	WOOD	80	3,2	2,2	15°	1° FLAT + 4° ATB	274.080.10M	34
250	30	WOOD	80	3,2	2,2	-3° Neg.	TCG	281.681.10M	38
250	30	WOOD	80	3,2	2,2	5°	TCG	281.680.10M	39
250	30	WOOD	80	3,2	2,2	10°	TCG	281.080.10M	41
250	30	WOOD	80	3,2	2,2	10°	TCG	281.080.10M	43
250	30	NON-FERROUS	80	3,2	2,5	-6° Neg.	TCG	297.080.10M	49
250	30	WOOD	20+4	3,2	2,2	18°	10° ATB	279.020.10M	13
250	32	METAL & STEEL	0	2			Not Sharpened	227.250P	53
250	32	NON-FERROUS	80	3,2	2,5	6°	TCG	284.080.10P	48
250	32	NON-FERROUS	80	3,2	2,5	-6° Neg.	TCG	297.080.10P	49
250	32	METAL & STEEL	128	2			C/HZ	227.250.128P	52
250	32	METAL & STEEL	160	2			BW	227.250.160P	53
250	32	METAL & STEEL	200	2			BW	227.250.200P	53
250	32	METAL & STEEL	200	2			BW	227.250.700P	53
250	35	WOOD	60	3,2	2,2	10°	15° ATB	285.060.10R	25
250	35	WOOD	80	3,2	2,2	5°	15° ATB	285.080.10R	29
250	70	WOOD	20+4	2,7	1,8	50	10° ATB	280.020.10V	14
250	70	WOOD	20+4	3,2	2,2	18°	10° ATB	279.020.10V	13
250	80	WOOD	20+4	2,7	1,8	50	10° ATB	280.020.10W	14
250	80	WOOD	20+4	3,2	2,2	18°	10° ATB	279.020.10W	13
250	30	WOOD	60	3,2	2,2	10°	TCG	281.060.10M	43
250	30	METAL & STEEL	72	2,2	1,8	0°	10° FWF	226.572.10M	56
250	25,4 (+20)	MULTI-MATERIALS	20	2	1,4	2°	8° ATB	298.250.20	63
250	25,4 (+20)	MULTI-MATERIALS	40	2	1,4	2°	8° ATB	298.250.40	63
250	35	WOOD	40	3,2	2,2	15°	10° ATB	285.040.10R	21
254	15,87	METAL & STEEL	48	2,2	1,8	0°	8° FWF	226.048.10	55
254	15,87	METAL & STEEL	60	2,2	1,8	0°	8° FWF	226.060.10	54
254	30	WOOD	48	2,4	1,8	-5° Neg.	15° ATB	294.048.10M	21
254	30	METAL & STEEL	60	2,2	1,8	0°	8° FWF	226.060.10M	54
254	30	WOOD	60	2,4	1,8	-5° Neg.	15° ATB	294.060.10M	25
254	30	NON-FERROUS	80	3,2	2,5	-6° Neg.	TCG	297.081.10M	49
254	15,87	METAL & STEEL	72	2,2	1,8	0°	10° FWF	226.572.10	56
260	30	WOOD	28	2,8	1,8	20°	10° ATB	290.260.28M	18
260	30	WOOD	48	2,8	1,8	15°	10° ATB	285.048.11M	22
260	30	WOOD	60	2,5	1,8	-5° Neg.	10° ATB	285.860.11M	24
260	30	WOOD	60	2,5	1,8	-5° Neg.	15° ATB	294.060.11M	26
260	30	WOOD	60	2,8	1,8	10°	15° ATB	285.060.11M	26
260	30	WOOD	64	2,5	1,8	-3° Neg.	TCG	281.065.11M	42
260	30	WOOD	80	2,5	1,8	-5° Neg.	15° ATB	294.080.11M	30
260	30	NON-FERROUS	80	3,2	2,5	-6° Neg.	TCG	297.080.11M	49

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
270	30	WOOD	28	2,8	1,8	20°	10° ATB	290.270.28M	18
270	30	WOOD	42	2,8	1,8	15°	10° ATB	291.270.42M	22
275	20	WOOD	42	3,2	2,2	15°	10° ATB	285.042.11H	21
275	32	METAL & STEEL	0	2,5			Not Sharpened	227.275P	53
275	32	METAL & STEEL	140	2,5			C/HZ	227.275.140P	52
275	32	METAL & STEEL	220	2			BW	227.275.722P	53
275	32	METAL & STEEL	220	2,5			BW	227.275.720P	53
275	32	METAL & STEEL	220	2,5			BW	227.275.220P	53
280	30	WOOD	64	2,8	1,8	10°	15° ATB	295.064.11M	25
280	30	NON-FERROUS	64	3,2	2,5	-6° Neg.	TCG	297.064.11M	49
300	20	WOOD	48	3,2	2,2	15°	10° ATB	285.048.12H	21
300	30	MULTI-MATERIALS	20	2,4	1,8	12°	TCG	236.300.20M	10
300	30	WOOD	20	2,8	1,8	15°	5° ATB	286.020.12M	11
300	30	WOOD	24	2,6	1,8	22°	10° ATB + 8° Shear	271.300.24M	19
300	30	WOOD	24	3,2	2,2	20°	10° ATB	293.024.12M	17
300	30	WOOD	28	3,2	2,2	18°	10° ATB	278.028.12M	16
300	30	WOOD	36	3,2	2,2	15°	10° ATB	285.036.12M	21
300	30	MULTI-MATERIALS	44	2,5	2	10°	HR	235.300.44M	47
300	30	WOOD	48	2,6	1,8	18°	10° ATB + 8° Shear	271.300.48M	23
300	30	WOOD	48	3,2	2,2	15°	10° ATB	286.048.12M	11
300	30	WOOD	48	3,2	2,2	15°	10° ATB	285.648.12M	20
300	30	WOOD	48	3,2	2,2	15°	10° ATB	285.048.12M	21
300	30	WOOD	60	3,2	2,2	15°	10° ATB	285.060.12M	25
300	30	WOOD	60	3,2	2,2	10°	45° TCG	237.060.12M	46
300	30	WOOD	60	4,4	3,2	16°	TCG	282.060.12M	43
300	30	WOOD	72	2,6	1,8	15°	10° ATB + 8° Shear	272.300.72M	27
300	30	WOOD	72	3,2	2,2	10°	15° ATB	285.672.12M	24
300	30	WOOD	72	3,2	2,2	10°	15° ATB	285.072.12M	25
300	30	WOOD	72	3,2	2,2	-3° Neg.	FFT	281.073.12M	38
300	30	WOOD	72	3,2	2,2	10°	TCG	281.672.12M	39
300	30	WOOD	72	3,2	2,2	10°	TCG	281.072.12M	41
300	30	WOOD	72	3,2	2,2	10°	TCG	281.072.12M	43
300	30	MULTI-MATERIALS	84	3,2	2,5	0°	MTCG	223.084.12M	57
300	30	WOOD	96	2,6	1,8	12°	10° ATB + 8° Shear	273.300.96M	31
300	30	NON-FERROUS	96	2,8	2	-6° Neg.	TCG	276.300.96M	51
300	30	MULTI-MATERIALS	96	2,8	2,2	-3° Neg.	MATB	222.096.12M	57
300	30	WOOD	96	3	2,5	10°	20° ATB	285.596.12M	35
300	30	WOOD	96	3,2	2,2	5°	15° ATB	285.696.12M	28
300	30	WOOD	96	3,2	2,2	5°	15° ATB	285.096.12M	29
300	30	WOOD	96	3,2	2,2	2°	38° Hi-ATB	283.696.12M	32
300	30	WOOD	96	3,2	2,2	2°	40° Hi-ATB	283.096.12M	33
300	30	WOOD	96	3,2	2,2	-3° Neg.	TCG	281.697.12M	38
300	30	WOOD	96	3,2	2,2	5°	TCG	281.696.12M	39
300	30	WOOD	96	3,2	2,2	10°	FFT	295.096.12M	40
300	30	WOOD	96	3,2	2,2	10°	TCG	281.096.12M	41
300	30	WOOD	96	3,2	2,2	10°	TCG	281.096.12M	43
300	30	WOOD	96	3,2	2,2	15°	45° TCG	237.096.12M	46
300	30	NON-FERROUS	96	3,2	2,5	-6° Neg.	TCG	297.096.12M	49
300	30	WOOD	100	3,2	2,2	15°	1° FLAT + 4° ATB	274.100.12M	34
300	30	WOOD	24+4	3,2	2,2	18°	10° ATB	279.024.12M	13
300	30	WOOD	24+4	4	2,8	18°	10° ATB	277.024.12M	15
300	32	METAL & STEEL	0	2,5			Not Sharpened	227.300P	53
300	32	NON-FERROUS	96	3,2	2,5	6°	TCG	284.096.12P	48
300	32	NON-FERROUS	96	3,2	2,5	-6° Neg.	TCG	297.096.12P	49
300	32	METAL & STEEL	160	2,5			C/HZ	227.300.160P	52
300	32	METAL & STEEL	220	2			BW	227.300.722P	53
300	32	METAL & STEEL	220	2,5			BW	227.300.220P	53
300	32	METAL & STEEL	220	2,5			BW	227.300.720P	53
300	35	WOOD	24	3,2	2,2	20°	10° ATB	293.024.12R	17
300	35	WOOD	48	3,2	2,2	15°	10° ATB	285.048.12R	21

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
300	35	WOOD	72	3,2	2,2	10°	15° ATB	285.072.12R	25
300	35	WOOD	96	3,2	2,2	5°	15° ATB	285.096.12R	29
300	50	WOOD	48	4,3-5,5	3,2	10°	CO+FLAT	288.300.48T	45
300	60	WOOD	24+4	3,2	2,2	18°	10° ATB	279.024.12U	13
300	65	WOOD	72	4,3-5,5	3,2	10°	CO+FLAT	288.300.72J	45
300	70	WOOD	28	3,2	2,2	18°	10° ATB	278.028.12V	16
300	70	WOOD	24+4	2,7	1,8	60	10° ATB	280.024.12V	14
300	70	WOOD	24+4	3,2	2,2	18°	10° ATB	279.024.12V	13
300	70	WOOD	24+4	4	2,8	18°	10° ATB	277.024.12V	15
300	75	WOOD	60	4,4	3,2	16°	TCG	282.060.12X	43
300	80	WOOD	60	4,4	3,2	16°	TCG	282.060.12W	43
300	80	WOOD	24+4	2,7	1,8	60	10° ATB	280.024.12W	14
300	80	WOOD	24+4	3,2	2,2	18°	10° ATB	279.024.12W	13
300	80	WOOD	24+4	4	2,8	18°	10° ATB	277.024.12W	15
300	30	METAL & STEEL	80	2,2	1,8	0°	10° FWF	226.580.12M	56
303	30	WOOD	60	3,2	2,2	-6° Neg.	HDF	287.061.12M	36
303	30	WOOD	60	3,2	2,2	10°	HDF	287.060.12M	37
305	25,4	METAL & STEEL	60	2,2	1,8	0°	8° FWF	226.060.12	55
305	25,4	METAL & STEEL	80	2,2	1,8	0°	8° FWF	226.080.12	54
305	30	WOOD	28	2,8	1,8	20°	10° ATB	293.028.22M	17
305	30	WOOD	48	2,6	1,8	-5° Neg.	10° ATB	271.305.48M	23
305	30	WOOD	54	2,8	1,8	-5° Neg.	15° ATB	294.054.22M	21
305	30	WOOD	72	2,6	1,8	-5° Neg.	10° ATB	272.305.72M	27
305	30	WOOD	72	3,2	2,2	10°	15° ATB	285.072.22M	25
305	30	WOOD	72	3,2	2,2	-5° Neg.	15° ATB	294.072.22M	25
305	30	METAL & STEEL	80	2,2	1,8	0°	8° FWF	226.080.12M	54
305	30	NON-FERROUS	96	2,8	2	-6° Neg.	TCG	276.305.96M	51
305	30	NON-FERROUS	96	3,2	2,5	-6° Neg.	TCG	297.096.13M	49
305	25,4	METAL & STEEL	80	2,2	1,8	0°	10° FWF	226.580.12	56
315	30	WOOD	24	3,2	2,2	15°	5° ATB	286.024.13M	11
315	30	WOOD	28	3,2	2,2	20°	10° ATB	293.028.12M	17
315	30	WOOD	36	3,2	2,2	15°	5° ATB	285.036.13M	17
315	30	WOOD	54	3,2	2,2	15°	10° ATB	294.054.12M	21
315	30	WOOD	72	3,2	2,2	15°	10° ATB	285.072.13M	25
315	30	NON-FERROUS	96	3,2	2,5	-6° Neg.	TCG	297.096.23M	49
315	32	METAL & STEEL	0	2,5			Not Sharpened	227.315P	53
315	32	METAL & STEEL	160	2,5			C/HZ	227.315.160P	52
315	32	METAL & STEEL	240	2,5			BW	227.315.240P	53
315	32	METAL & STEEL	240	2,5			BW	227.315.740P	53
320	65	WOOD	60	4,4	3,2	16°	TCG	Y282.060.13J	43
320	65	WOOD	72	4,4	3,2	16°	TCG	282.072.13J	43
330	30	NON-FERROUS	96	3,6	3	-6° Neg.	TCG	297.096.33M	49
330	32	NON-FERROUS	96	3,6	3	-6° Neg.	TCG	297.096.33P	49
350	30	WOOD	24	3,2	2,2	15°	5° ATB	286.024.14M	11
350	30	WOOD	28	3,5	2,5	20°	10° ATB	293.028.14M	17
350	30	WOOD	36	3,5	2,5	18°	10° ATB	278.036.14M	16
350	30	WOOD	54	3,5	2,5	15°	10° ATB	285.654.14M	20
350	30	WOOD	54	3,5	2,5	15°	10° ATB	285.054.14M	21
350	30	WOOD	54	4,4	3,2	16°	TCG	282.054.14M	43
350	30	WOOD	72	3,5	2,4	15°	45° TCG	237.072.14M	46
350	30	WOOD	72	3,5	2,5	15°	10° ATB	285.072.14M	25
350	30	WOOD	72	4,4	3,2	16°	TCG	282.072.14M	43
350	30	WOOD	84	3,5	2,5	10°	15° ATB	285.684.14M	24
350	30	WOOD	84	3,5	2,5	10°	15° ATB	285.084.14M	25
350	30	WOOD	84	3,5	2,5	10°	TCG	281.684.14M	39
350	30	WOOD	84	3,5	2,5	10°	TCG	281.084.14M	41
350	30	WOOD	108	3,5	2,5	5°	15° ATB	285.708.14M	28
350	30	WOOD	108	3,5	2,5	5°	15° ATB	285.108.14M	29
350	30	WOOD	108	3,5	2,5	5°	40° HI-ATB	283.108.14M	33
350	30	WOOD	108	3,5	2,5	5°	TCG	281.708.14M	39

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
350	30	WOOD	108	3,5	2,5	10°	FFT	295.108.14M	40
350	30	WOOD	108	3,5	2,5	10°	TCG	281.108.14M	41
350	30	WOOD	108	3,5	2,5	10°	TCG	281.108.14M	43
350	30	NON-FERROUS	108	3,6	3	-6° Neg.	TCG	297.108.14M	49
350	30	WOOD	24+6	4,2	2,8	18°	10° ATB	277.024.14M	15
350	30	WOOD	28+4	3,5	2,5	18°	10° ATB	279.028.14M	13
350	32	METAL & STEEL	0	2,5			Not Sharpened	227.350P	53
350	32	NON-FERROUS	84	3,6	3	6°	TCG	284.092.14P	48
350	32	NON-FERROUS	108	3,6	3	6°	TCG	284.108.14P	48
350	32	NON-FERROUS	108	3,6	3	-6° Neg.	TCG	297.108.14P	49
350	32	METAL & STEEL	180	2,5			C/HZ	227.350.180P	52
350	32	METAL & STEEL	280	2,5			BW	227.350.280P	53
350	32	METAL & STEEL	280	2,5			BW	227.350.780P	53
350	35	WOOD	28	3,5	2,5	20°	10° ATB	293.028.14R	17
350	35	WOOD	54	3,5	2,5	15°	10° ATB	285.054.14R	21
350	35	WOOD	84	3,5	2,5	10°	15° ATB	285.084.14R	25
350	35	WOOD	108	3,5	2,5	5°	15° ATB	285.108.14R	29
350	50	WOOD	72	4,4	3,2	16°	TCG	282.072.14T	43
350	60	WOOD	72	4,4	3,2	16°	TCG	Y282.072.14U	43
350	60	WOOD	28+4	3,5	2,5	18°	10° ATB	279.028.14U	13
350	70	WOOD	36	3,5	2,5	18°	10° ATB	278.036.14V	16
350	70	WOOD	24+6	4,2	2,8	18°	10° ATB	277.024.14V	15
350	70	WOOD	28+4	3,5	2,5	18°	10° ATB	279.028.14V	13
350	75	WOOD	54	4,4	3,2	16°	TCG	282.054.14X	43
350	75	WOOD	72	4,4	3,2	16°	TCG	282.072.14X	43
350	80	WOOD	54	4,4	3,2	16°	TCG	282.054.14W	43
350	80	WOOD	72	4,4	3,2	16°	TCG	282.072.14W	43
350	80	WOOD	28+4	3,5	2,5	18°	10° ATB	279.028.14W	13
355	25,4	METAL & STEEL	72	2,2	1,8	0°	8° FWF	226.072.14	55
355	25,4	METAL & STEEL	90	2,2	1,8	0°	8° FWF	226.090.14	54
355	25,4	METAL & STEEL	90	2,2	1,8	0°	10° FWF	226.590.14	56
355	30	WOOD	72	4,4	3,2	16°	TCG	S282.03556	43
355	30	METAL & STEEL	90	2,2	1,8	0°	8° FWF	226.090.14M	54
355	30	METAL & STEEL	90	2,2	1,8	0°	10° FWF	226.590.14M	56
355	65	WOOD	72	4,4	3,2	16°	TCG	282.072.14J2	43
355	80	WOOD	72	4,4	3,2	10°	TCG	282.072.14W2	43
380	60	WOOD	72	4,4	3,2	15°	TCG	282.072.15U2	43
380	60	WOOD	72	4,8	3,5	16°	TCG	282.072.15U	43
380	80	WOOD	72	4,4	3,2	16°	TCG	282.072.15W	43
400	30	WOOD	28	3,2	2,2	15°	5° ATB	286.028.16M	11
400	30	WOOD	36	3,5	2,5	20°	10° ATB	285.036.16M	17
400	30	WOOD	48	3,5	2,5	20°	10° ATB	285.048.16M	21
400	30	WOOD	60	3,5	2,5	10°	15° ATB	285.660.16M	20
400	30	WOOD	60	3,5	2,5	10°	15° ATB	285.060.16M	25
400	30	WOOD	60	4,4	3,2	16°	TCG	282.060.16M	43
400	30	WOOD	72	4,4	3,2	16°	TCG	282.072.16M	43
400	30	WOOD	96	3,5	2,5	10°	15° ATB	285.696.16M	24
400	30	WOOD	96	3,5	2,5	10°	15° ATB	285.096.16M	29
400	30	WOOD	120	3,5	2,5	10°	15° ATB	285.120.16M	29
400	30	NON-FERROUS	120	4	3,2	-6° Neg.	TCG	297.120.16M	49
400	30	WOOD	28+6	4	2,8	18°	10° ATB	279.028.16M	13
400	32	NON-FERROUS	96	4	3,2	6°	TCG	284.096.16P	48
400	32	NON-FERROUS	96	4	3,2	-6° Neg.	TCG	297.108.16P	49
400	32	NON-FERROUS	120	4	3,2	-6° Neg.	TCG	297.120.16P	49
400	60	WOOD	72	4,4	3,2	16°	TCG	282.072.16U	43
400	70	WOOD	28+6	4	2,8	18°	10° ATB	279.028.16V	13
400	75	WOOD	60	4,4	3,2	16°	TCG	282.060.16X	43
400	75	WOOD	72	4,4	3,2	16°	TCG	282.072.16X	43
400	80	WOOD	60	4,4	3,2	16°	TCG	282.060.16W	43
400	80	WOOD	72	4,4	3,2	16°	TCG	282.072.16W	43

D mm	B mm	MATERIALS/APPLICATION	Z	K mm	P mm	α	β	ORDER NO.	PAGE
420	32	NON-FERROUS	96	3,8	3,2	6°	TCG	284.096.17P	48
420	80	WOOD	72	4,4	3,2	15°	TCG	282.072.17W	43
430	65	WOOD	72	4,4	3,2	16°	TCG	Y282.072.17J	43
430	75	WOOD	72	4,4	3,2	16°	TCG	282.072.17X	43
430	80	WOOD	72	4,4	3,2	16°	TCG	282.072.17W2	43
450	30	WOOD	32	3,8	2,8	15°	5° ATB	286.032.18M	11
450	30	WOOD	36	3,8	2,8	20°	10° ATB	285.036.18M	17
450	30	WOOD	54	3,8	2,8	15°	15° ATB	285.054.18M	21
450	30	WOOD	66	3,8	2,8	10°	15° ATB	285.066.18M	25
450	30	WOOD	72	4,4	3,2	16°	TCG	Y282.072.18M2	43
450	30	NON-FERROUS	96	4,2	3,5	-6° Neg.	TCG	297.108.18M	49
450	30	NON-FERROUS	108	4,2	3,5	6°	TCG	284.108.18M	48
450	30	NON-FERROUS	120	4,2	3,5	-6° Neg.	TCG	Y297.140.18M	49
450	32	NON-FERROUS	96	4,2	3,5	-6° Neg.	TCG	297.108.18P	49
450	32	NON-FERROUS	108	4,2	3,5	6°	TCG	284.108.18P	48
450	32	NON-FERROUS	120	4,2	3,5	-6° Neg.	TCG	297.120.18P	49
450	60	WOOD	72	4,8	3,5	16°	TCG	282.072.18U	43
450	80	WOOD	72	4,8	3,5	16°	TCG	282.072.18W2	43
500	30	WOOD	36	3,8	2,8	15°	5° ATB	286.036.20M	11
500	30	WOOD	44	4	2,8	20°	10° ATB	285.044.20M	17
500	30	WOOD	60	3,8	2,8	15°	15° ATB	285.060.20M	21
500	30	WOOD	72	3,8	2,8	10°	15° ATB	285.072.20M	25
500	30	NON-FERROUS	120	4,3	3,5	10°	TCG	284.120.20M	48
500	30	NON-FERROUS	120	4,3	3,5	-6° Neg.	TCG	297.120.20M	49
500	32	NON-FERROUS	120	4,3	3,5	10°	TCG	284.120.20P	48
500	32	NON-FERROUS	120	4,3	3,5	-6° Neg.	TCG	297.120.20P	49
500	60	WOOD	72	4,8	3,5	16°	TCG	282.072.20U	43
500	80	WOOD	72	4,8	3,5	16°	TCG	Y282.072.20W	43
550	30	WOOD	40	4,2	3,2	15°	5° ATB	286.040.22M	11
550	30	WOOD	60	4,2	3,2	10°	15° ATB	285.060.22M	21
550	30	WOOD	96	4,2	3,2	10°	15° ATB	285.096.22M	25
550	100	WOOD	72	5,2	3,5	16°	TCG	282.072.22A	43
600	30	WOOD	40	4,2	3,2	15°	5° ATB	286.040.24M	11
600	30	WOOD	66	4,2	3,2	10°	15° ATB	285.066.24M	21
700	30	WOOD	46	4,4	3,2	15°	5° ATB	286.046.28M	11
700	30	WOOD	72	4,4	3,2	10°	15° ATB	285.072.28M	21