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

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

60 CMT 1962~2022

OUR BRANCHES

Pesaro, Italy

Udine, Italy

Greensboro, United States

Valencia, Spain

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

OUR TRADEMARK COLOR ORANGE

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

DESIGN

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

MATERIALS

Turning a design into a finished product means finding the right material that will do the job and that lives up to the specifications set out in the design - quality performance from the final product depends on it. When it comes to selecting raw materials, we don't cut corners.
At CMT, we know that high quality tools come only from high quality raw materials, so we use only solid bar stock steel and specially formulated micrograin carbide to manufacture our bits and blades.


Loading the automated multi-axis CNC sharpening machines.

MANUFACTURING

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

THE FINAL TOUCH

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

QUALITY CONTROL

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

WE RECYCLE

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

LOGISTICS & SERVICES

CMT offers a wide product range with over 7000 different standard tools, but that still isn't enough to achieve 100% customer satisfaction. It's a top priority to process orders and ship the same day. That's why CMT factories worldwide are equipped with 20+ automated vertical storage systems programmed to expedite and simplify order and delivery.
The tools you need, in-stock and ready for prompt shipment within 24 hours. What does this translate to for customers? Quick and efficient service exceeding customer satisfaction and branding our success.


Pesaro, Italy


Greensboro, United States

OUR CHANNELS

www.cmtorangetools.com

www.youtube.com/user/cmtorangetools

www.facebook.com/cmt.italy

www.instagram.com/cmt_orangetools

Maximize Your HW Saw's Performance

CMT ORANGE TOOLS®

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 woodworkers, carpenters, contractors and remodelers. Wide range for cuts in all materials like wood and derivates, plastic, non-ferrous and metals.	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	PLASTIC CLAMSHELL
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.		×	×	×

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

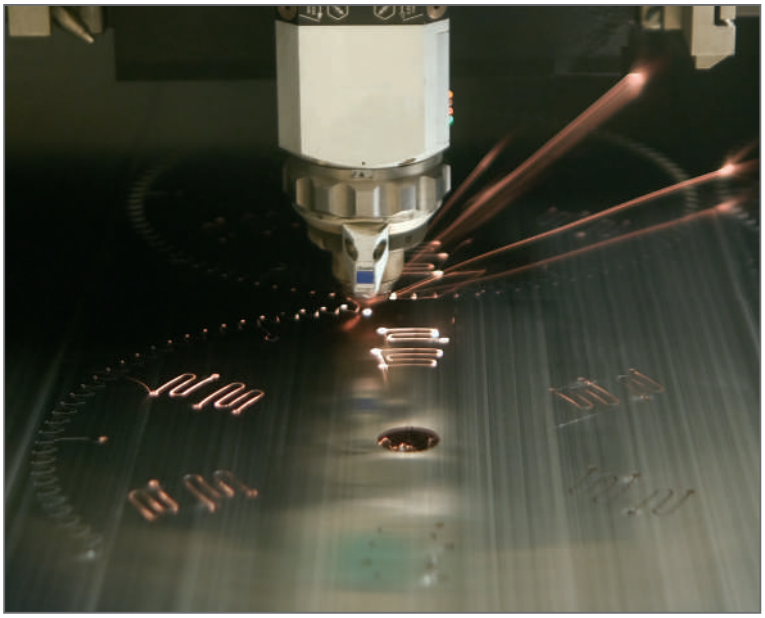
The body of a blade is an integral part of blade design; cutting quality and longevity depend on it. We use only the highest quality steel available, so durable and tough that it will not only withstand heavy workloads, but also be flexible enough to bend without breaking.

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.

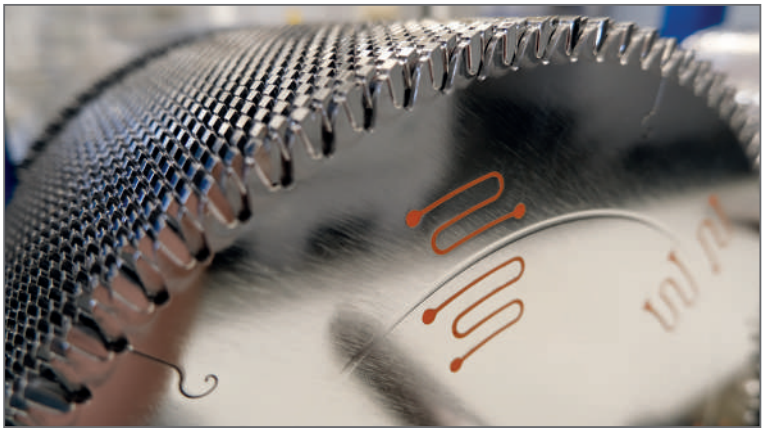
EXPANSION SLOTS

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.

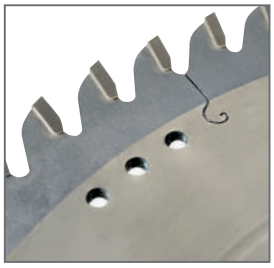
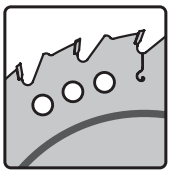


Fig. 1
Example of balancing holes.

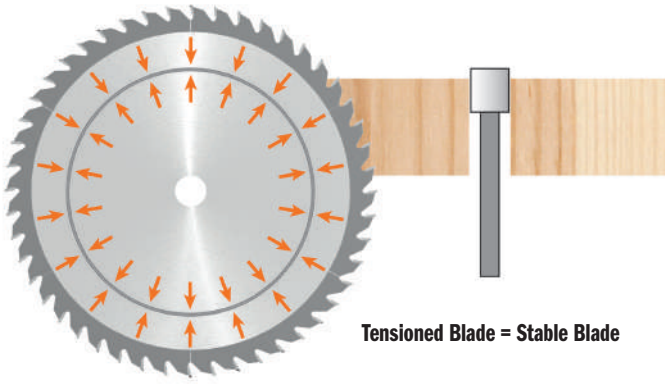
Fig. 2 Example of inspected blade already in perfect balance.

CMT XTREME BALANCING™

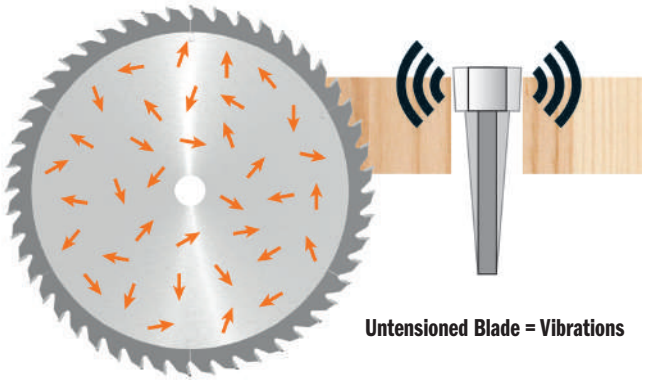


TENSIONING RINGS & FLATTING

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



Tensioned Blade = Stable Blade



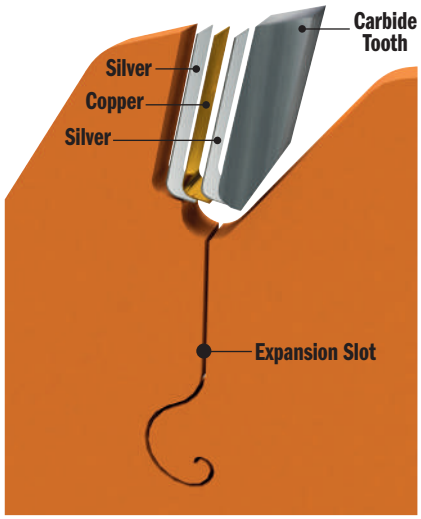
Untensioned Blade = Vibrations

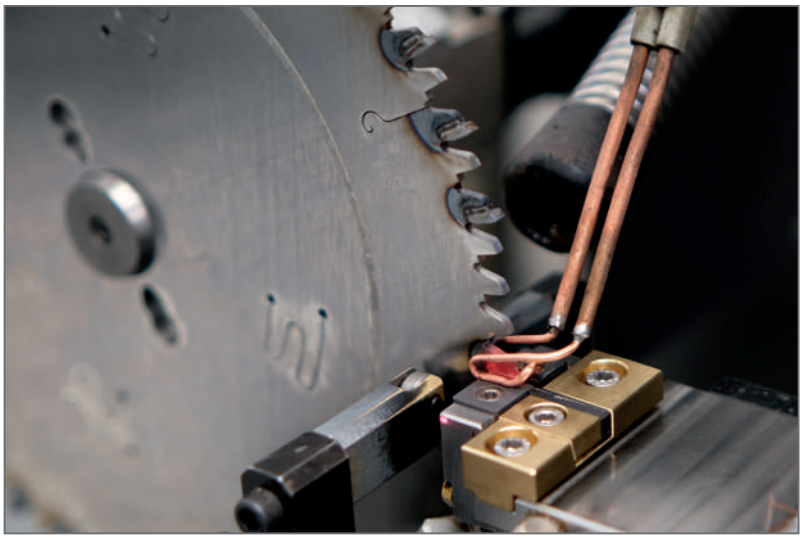
CARBIDE TEETH

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.

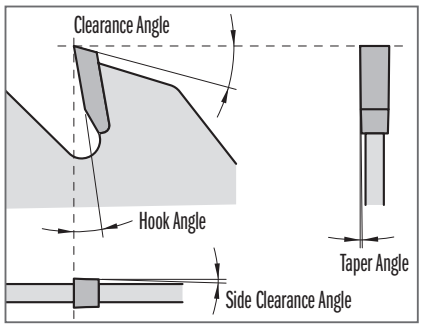
TRI-METAL BRAZING

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

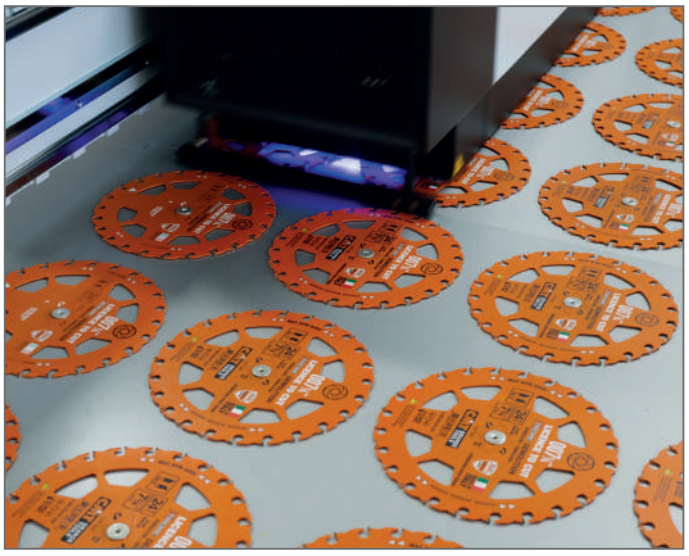
Quality coatings can be extremely effective in certain applications. CMT uses the following:

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?

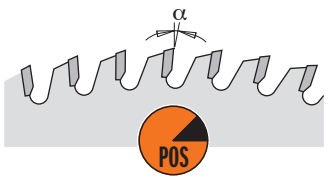
BASED ON YOUR MACHINE, CHOOSE THE APPROPRIATE BLADE:

- **DIAMETER (D)**
- **BORE (B)**

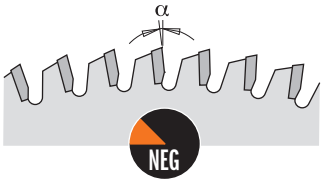
SUGGESTIONS FOR CHOOSING THE RIGHT BLADE:

HOOK ANGLE α

- Wood, Solid Surface (α = 10°~25°)
- Chipboard, MDF, Plywood, Laminate, Plastic (α = 5°~15°)
- Chipboard, MDF, Non-Ferrous, Metals (α = 0°~10°)



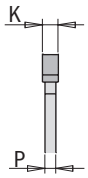
- Metals, Non-Ferrous, Plastic, Laminate (α = -5° ~ -15°)



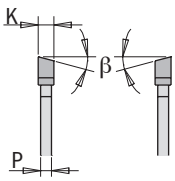
TEETH SHAPE

- Wood, Chipboard, MDF, Plywood

FLAT

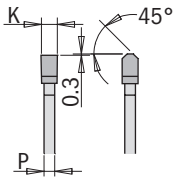


ATB
(Hi-ATB, ATB+SHEAR)

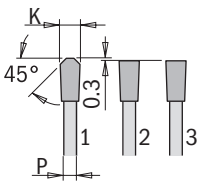


- Laminate, Chipboard, MDF, Plywood, Plastic

TCG

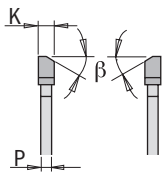


FFT



- Metals

FWF



- Special Application/Materials

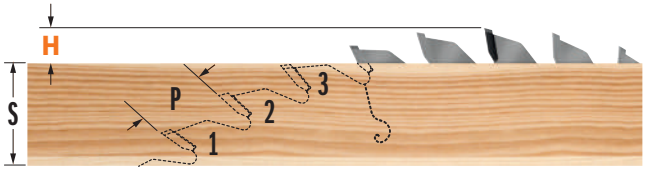
HDF
FLAT+ATB
CO+FLAT
MTCG
MATB
HR

SUGGESTIONS FOR BLADE USE:

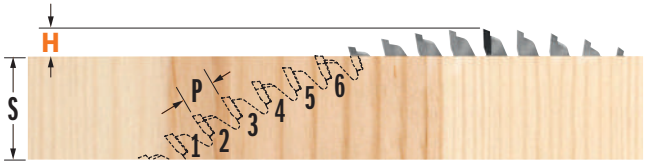
In order to achieve the best cut possible, that is without modifying the predetermined angle of entry/exit, it is important that the portion of the blade **(H)** which extends beyond the workpiece during the cut, be close to equal to the height of an entire tooth (approx. 8/10mm). To improve the finish, 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 Zp < 3, the cutting quality is not guaranteed.
With the same diameter, and when cutting thicker material, ensure to use a blade with less teeth (or with a greater **Pitch P**) or vice versa.

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.



Zp=3/4 – RIPPING

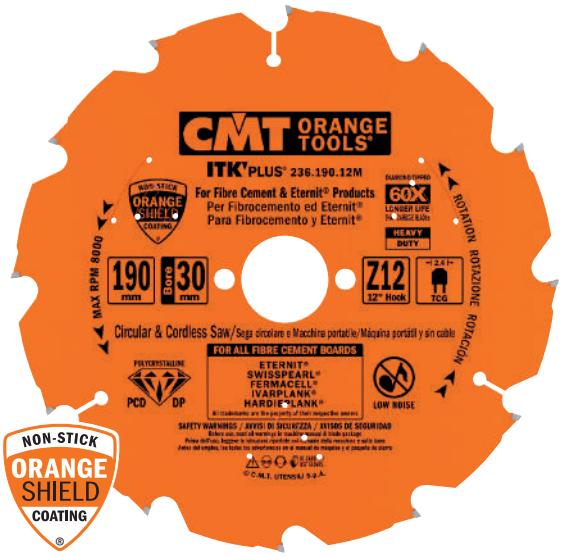


Zp=5/6 -CROSSCUT, CHIPBOARD, MDF, PLYWOOD, LAMINATE, PLASTIC

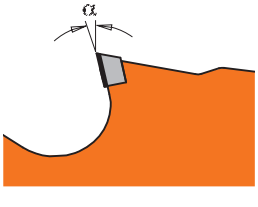
The blade Pitch (P), or the distance between each tooth, is calculated in the following way:

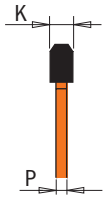
$$P = \frac{D \times 3{,}14}{Z}$$

D=Blade Diameter (mm)
Z=N° of Teeth



236 ITK PLUS®





60X LONGER LIFE THAN CARBIDE

PCD DP LONG LIFE

PERFORMANCE

MULTI-MATERIALS

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

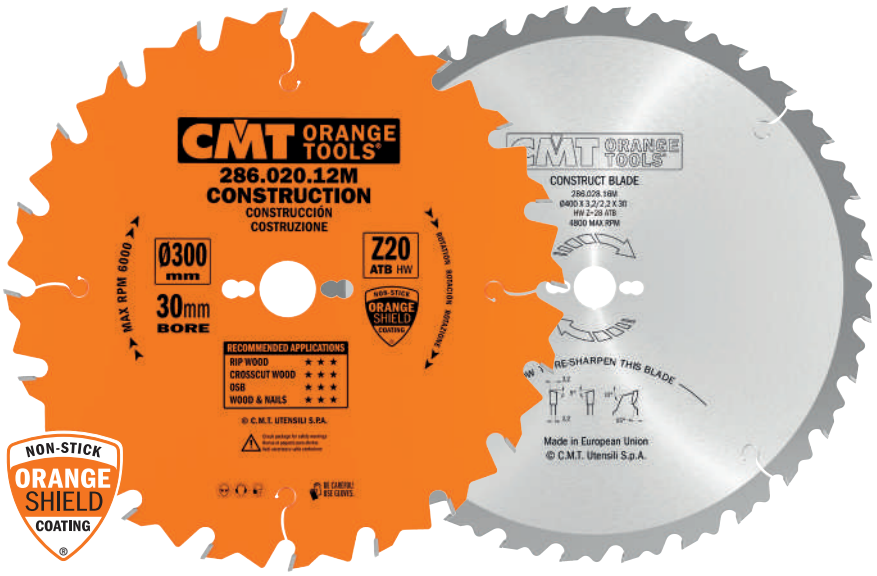

PLASTERBOARD


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

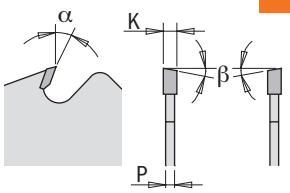


286 CONSTRUCTION

HW

PERFORMANCE

WOOD



Images are not in scale with each other.

Machines


MITRE SAW


RADIAL ARM


PORTABLE TABLE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


CONSTRUCTION CUTS

Materials


WOOD/WOOD & NAILS


OSB

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**

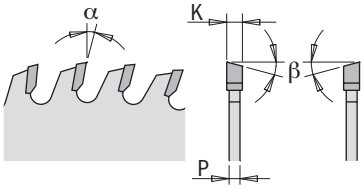
SHOP TIPS: Use our reduction ring from 30 to 25mm order n. 299.225.00 (for saw blades Ø250-300-315)
Use our reduction ring from 30 to 25mm order n. 299.228.00 (for saw blades Ø350 and larger)

K CONTRACTOR® CONSTRUCTION

HW

PERFORMANCE

WOOD



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

Materials


WOOD


OSB


PLYWOOD

Applications


RIPS


CROSS

For specific details regarding applications, please check blade label.

Machines


CIRCULAR SAW


MITRE SAW


RADIAL ARM


PORTABLE TABLE SAW


TABLE SAW

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		

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		

Clamshell Combo Pack

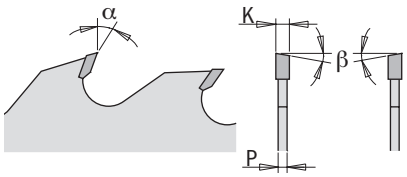
2-pcs Clamshell Combo Pack — Ø250mm. Bore 30mm

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



HW MEC

PERFORMANCE

WOOD

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

Machines

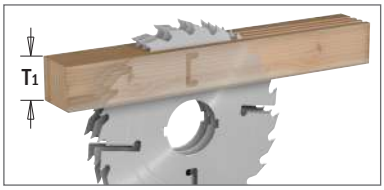

MULTI-RIP


MOULDERS

Blade diameter compatibility is contingent on machine type.

Applications


MULTI-RIP



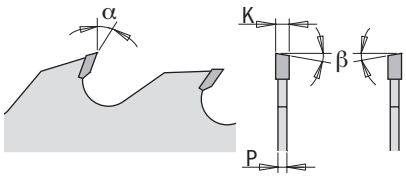
Materials


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.

HW MEC

PERFORMANCE

WOOD

Machines

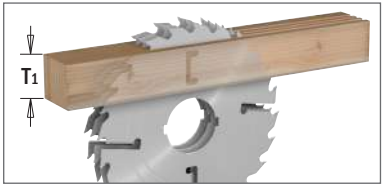

MULTI-RIP


MOULDERS

Blade diameter compatibility is contingent on machine type.

Applications


MULTI-RIP



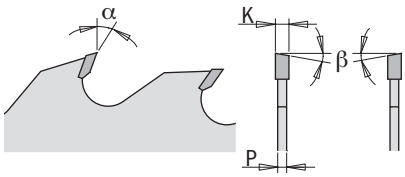
Materials


HARDWOOD


SOFTWOOD

D mm	B mm	KEY WAY		Z+V	K mm	P mm	T1 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



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.

HW MEC

PERFORMANCE

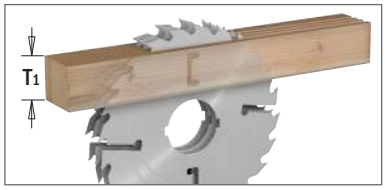
WOOD

Machines

MULTI-RIP

Applications

MULTI-RIP



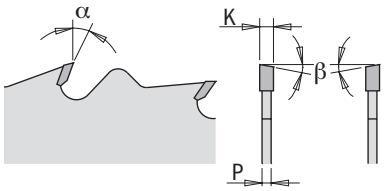
Materials

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



HW

PERFORMANCE

WOOD

Machines


SQUARING


MULTI-RIP

Blade diameter compatibility is contingent on machine type.

Applications


MULTI-RIP


RIPS

Materials


HARDWOOD

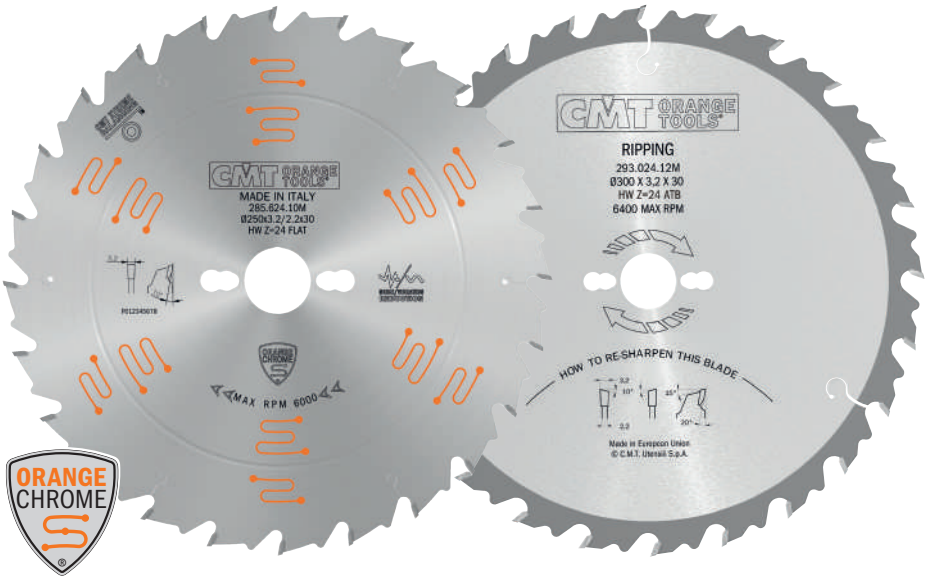

SOFTWOOD

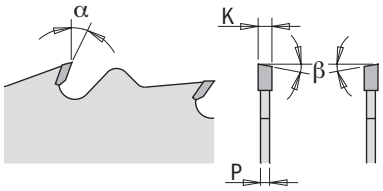
D mm	B mm	KEY WAY	PIN HOLE	Z	K mm	P mm		α	β		ORDER NO.
300	30		COMBI3	28	3,2	2,2		18°	10° ATB	1	**278.028.12M**
300	70	21 x 5	-	28	3,2	2,2		18°	10° ATB	1	**278.028.12V**
350	30		COMBI3	36	3,5	2,5		18°	10° ATB	1	**278.036.14M**
350	70	21 x 5	-	36	3,5	2,5		18°	10° ATB	1	**278.036.14V**

285-293

HW

WOOD





Images are not in scale with each other.

Machines

Blade diameter compatibility is contingent on machine type.

Applications

Materials

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

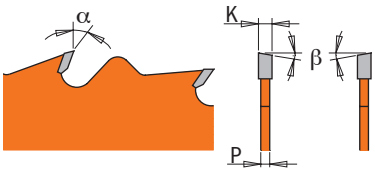
new

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



HW

PERFORMANCE

WOOD

Machines


CIRCULAR SAW


MITRE SAW


SLIDE MITRE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


RIP

Materials


HARDWOOD


SOFTWOOD

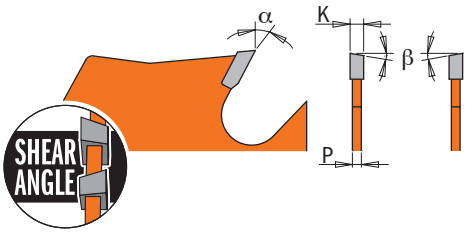

OSB

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

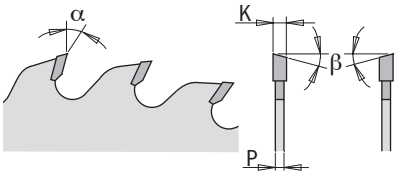

WOOD


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**

285.6 ORANGE CHROME®



HW

PERFORMANCE

WOOD

Machines

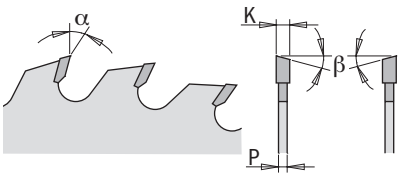
Blade diameter compatibility is contingent on machine type.

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



HW

PERFORMANCE

WOOD

Machines


MITRE SAW


RADIAL ARM


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


RIPS


CROSS

Materials


HARDWOOD


SOFTWOOD

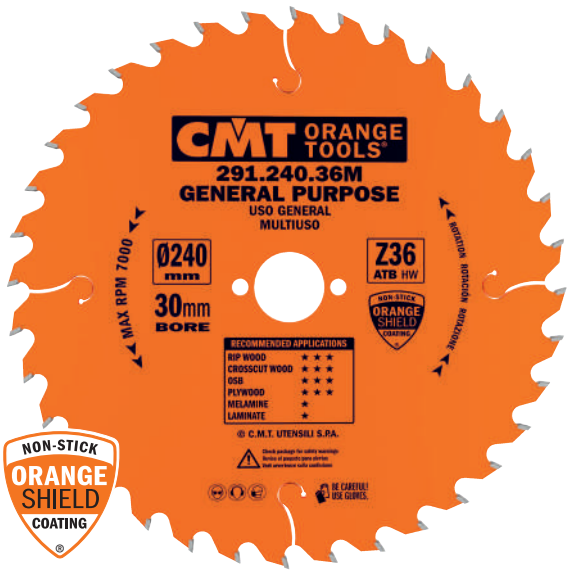

PLYWOOD


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

CMT ORANGE TOOLS®

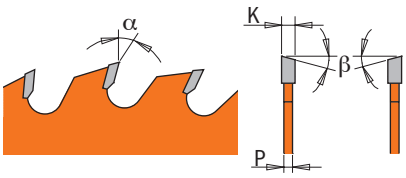


285-291 INDUSTRIAL

HW

PERFORMANCE

WOOD



Machines


CIRCULAR SAW

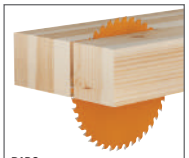

MITRE SAW

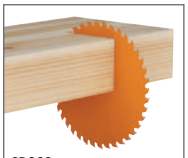

SLIDE MITRE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


RIPS


CROSS

Materials


WOOD


OSB

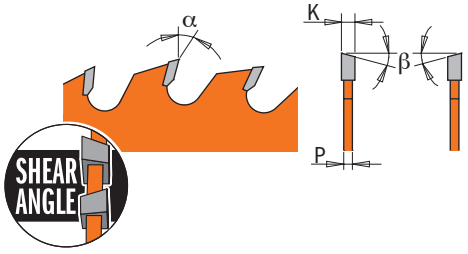

PLYWOOD

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*

271 ITK PLUS®



HW

PERFORMANCE

WOOD

Machines


CORDLESS CIRCULAR SAW


CIRCULAR SAW


MITRE SAW


SLIDE MITRE SAW

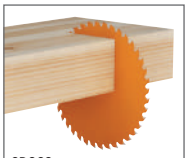

RADIAL ARM


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


RIPS


CROSS

Materials


WOOD


OSB

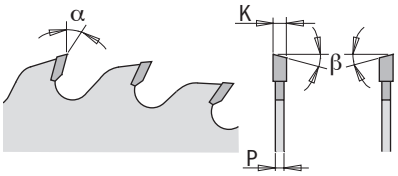

PLYWOOD

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**

new

■ *Until stock last*

285 ORANGE CHROME®

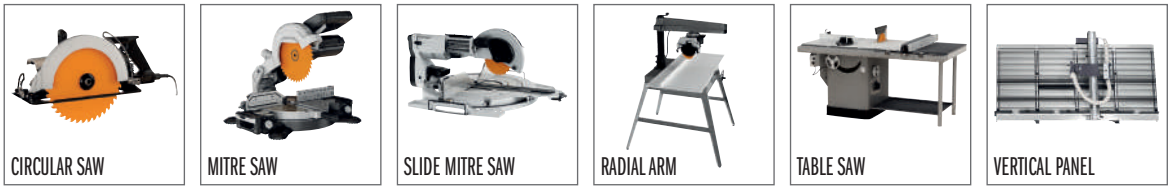


HW

PERFORMANCE

WOOD

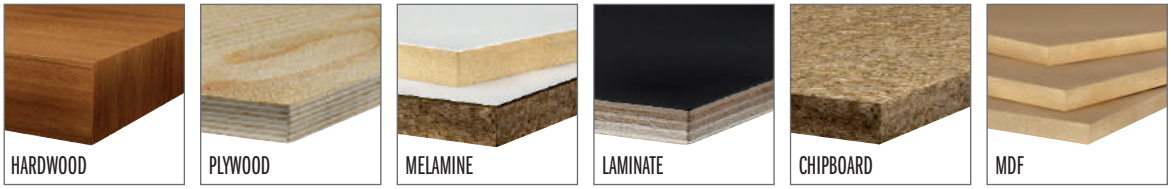
Machines



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.
new	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**
new	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**

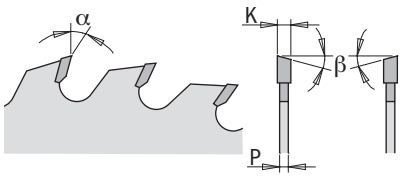
● **Ideal for FESTOOL®**

285-294-295 INDUSTRIAL

HW

PERFORMANCE

WOOD



Machines


MITRE SAW


SLIDE MITRE SAW


RADIAL ARM


TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications

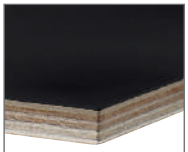

CROSS

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**

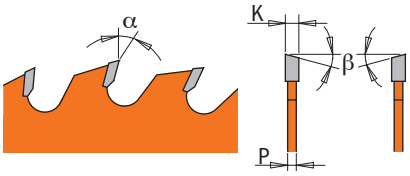
*Non-Silent Blades

285-292-294 INDUSTRIAL

HW

PERFORMANCE

WOOD



Machines


CIRCULAR SAW


MITRE SAW


SLIDE MITRE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


CROSS

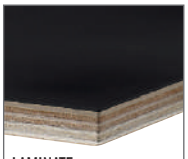
Materials


WOOD


OSB


PLYWOOD

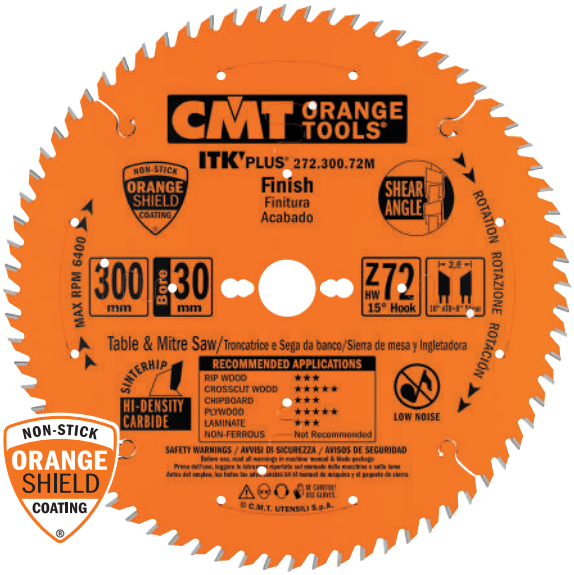

MELAMINE


LAMINATE

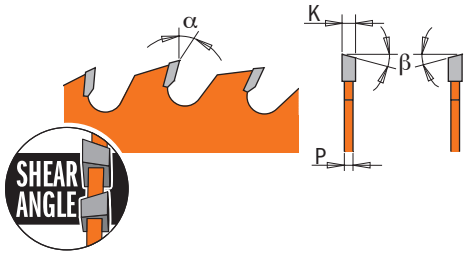
D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β	APPLICATIONS		ORDER NO.
120	20	2/5,5/30	40	1,8	1,2	10°	15° ATB	Fine Finish	10	**292.120.40H**
125	20	-	36	2,4	1,4	15°	15° ATB	Fine Finish	10	**292.125.36H**
130	20	-	36	2,4	1,4	15°	15° ATB	Fine Finish	10	**292.130.36H**
140	20	-	36	2,4	1,4	15°	15° ATB	Fine Finish	10	**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®



HW

PERFORMANCE

WOOD

Machines


MINI CORDLESS CIRC. SAW


CORDLESS CIRCULAR SAW


CIRCULAR SAW


MITRE SAW

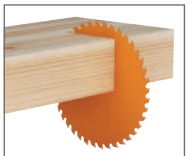

SLIDE MITRE SAW


RADIAL ARM


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


CROSS

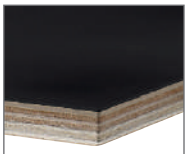
Materials


WOOD


OSB

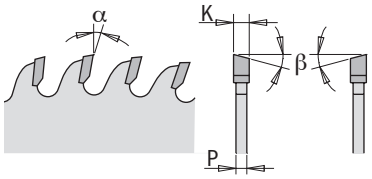

PLYWOOD


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®



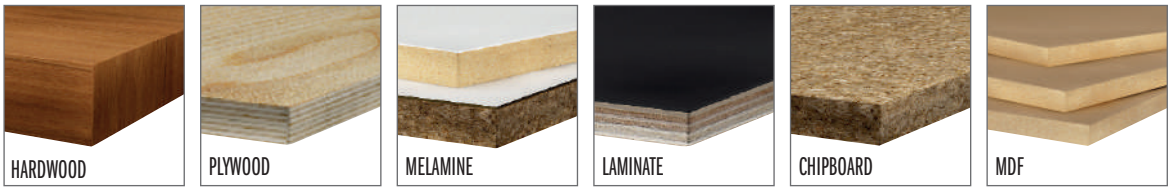
WOOD

Machines

Blade diameter compatibility is contingent on machine type.

Applications

Materials

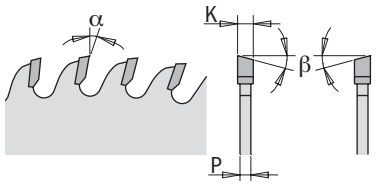


For specific details regarding suggested materials, please check blade label.

	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
new	160	20	2/6/32	48	2,2	1,6	5°	12° ATB	5	**285.760.48H** ●
new	190	20 (FESTOOL® FF)	-	48	2,4	1,8	8°	15° ATB	5	**285.790.48FF** ●
new	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



HW

PERFORMANCE

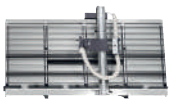
WOOD

Machines


MITRE SAW


RADIAL ARM


TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications

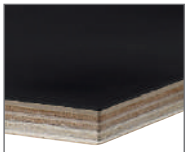

CROSS

Materials


HARDWOOD


PLYWOOD


MELAMINE


LAMINATE


CHIPBOARD


MDF

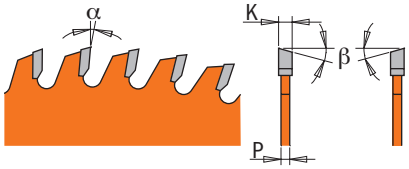
D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
250	30	COMBI3	80	3,2	2,2	5°	15° ATB	1	**285.080.10M**
250	35	-	80	3,2	2,2	5°	15° ATB	1	**285.080.10R**
300	30	COMBI3	96	3,2	2,2	5°	15° ATB	1	**285.096.12M**
300	35	-	96	3,2	2,2	5°	15° ATB	1	**285.096.12R**
350	30	COMBI3	108	3,5	2,5	5°	15° ATB	1	**285.108.14M**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

HW

PERFORMANCE

WOOD



Machines


CIRCULAR SAW

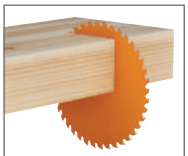

MITRE SAW


SLIDE MITRE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

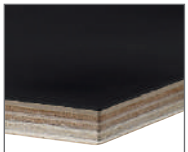
Applications


CROSS

Materials


PLYWOOD

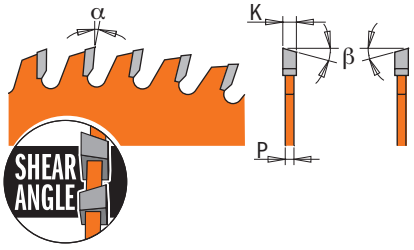

MELAMINE


LAMINATE

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®



HW

PERFORMANCE

WOOD

Machines


CORDLESS CIRCULAR SAW


CIRCULAR SAW


MITRE SAW

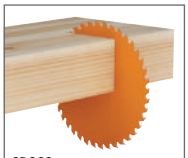

SLIDE MITRE SAW


RADIAL ARM


TABLE SAW

Blade diameter compatibility is contingent on machine type.

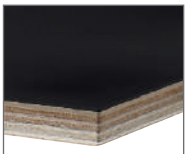
Applications


CROSS

Materials


PLYWOOD

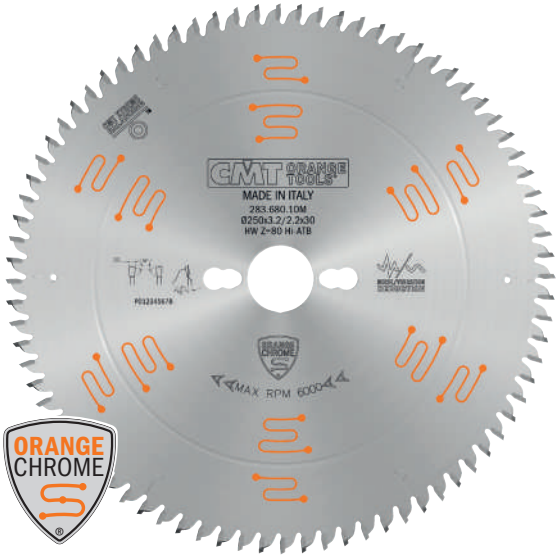

MELAMINE


LAMINATE

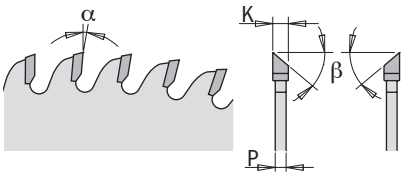
For specific details regarding suggested materials, please check blade label.

	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®

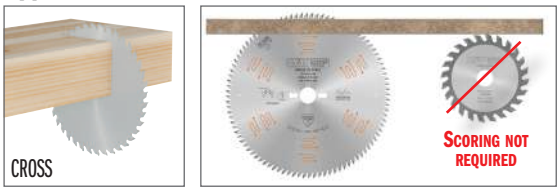


WOOD

Machines

Blade diameter compatibility is contingent on machine type.

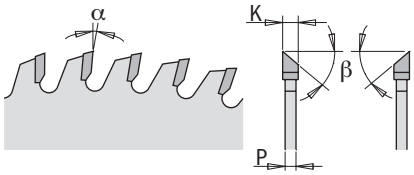
Applications



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



HW

PERFORMANCE

WOOD

Machines


MITRE SAW


SLIDE MITRE SAW


RADIAL ARM

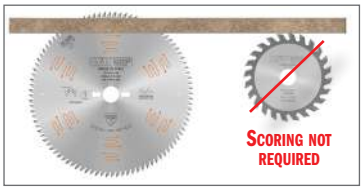

TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications


CROSS



Materials

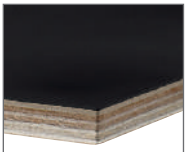

HARDWOOD


SOFTWOOD


PLYWOOD


VENEERED PLYWOOD

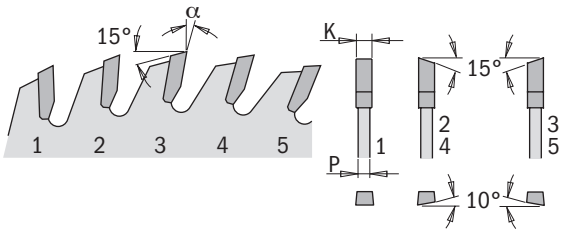

DOUBLE SIDED MELAMINE


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



HW LONG LIFE

PERFORMANCE

WOOD

Machines


MITRE SAW


RADIAL ARM


TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications


CROSS

Materials

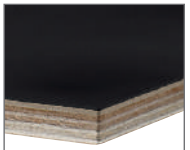

HARDWOOD


SOFTWOOD


PLYWOOD

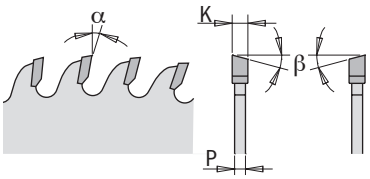

VENEERED PLYWOOD


DOUBLE SIDED MELAMINE


DOUBLE SIDED LAMINATE

D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
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®



HW

PERFORMANCE

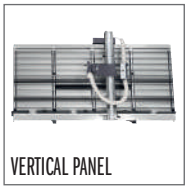
WOOD

Machines


MITRE SAW


RADIAL ARM


TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

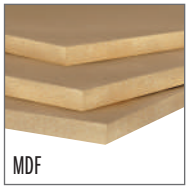
Applications


CROSS

Materials


HARDWOOD

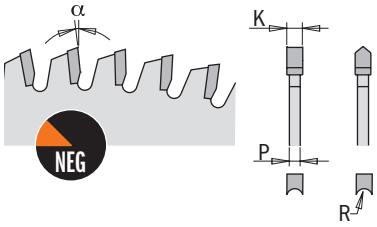

PLYWOOD


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



HW

PERFORMANCE

WOOD

Machines


MITRE SAW


SLIDE MITRE SAW

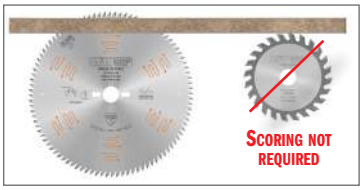

TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications


CROSS



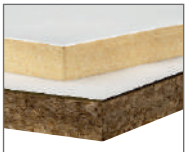
Materials

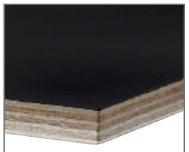

HARDWOOD


SOFTWOOD


PLYWOOD


VENEERED PLYWOOD

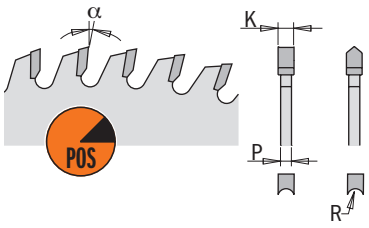

DOUBLE SIDED MELAMINE


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**

CMT ORANGE TOOLS®

287 INDUSTRIAL



HW

PERFORMANCE

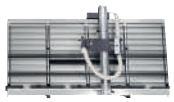
WOOD

Machines


CIRCULAR SAW


MITRE SAW

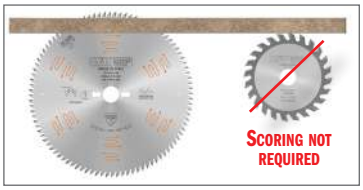

TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications


CROSS



Materials

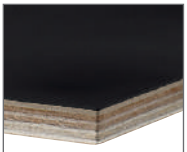

HARDWOOD


SOFTWOOD


PLYWOOD


VENEERED PLYWOOD


DOUBLE SIDED MELAMINE

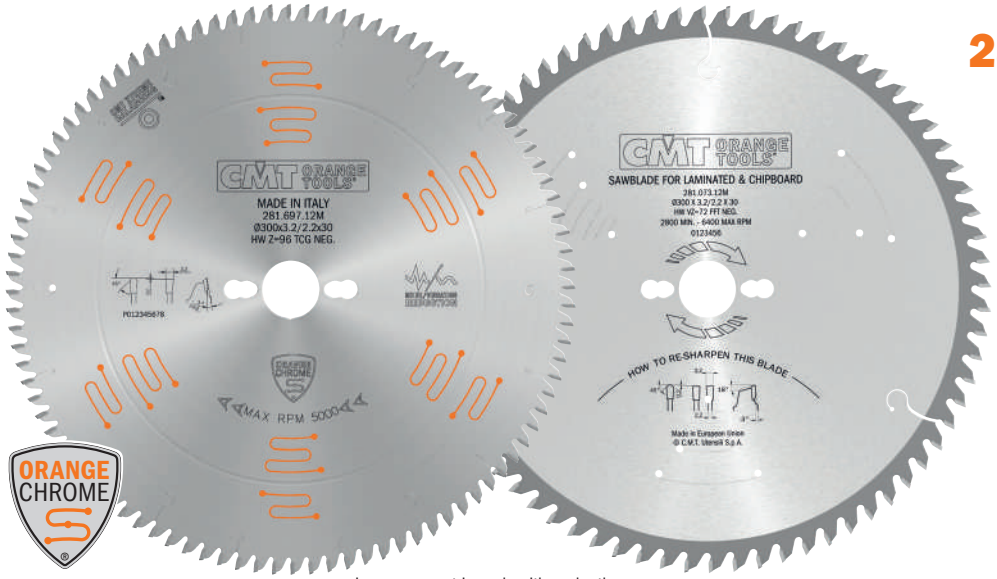

DOUBLE SIDED LAMINATE

D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
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

HW

WOOD



Images are not in scale with each other.

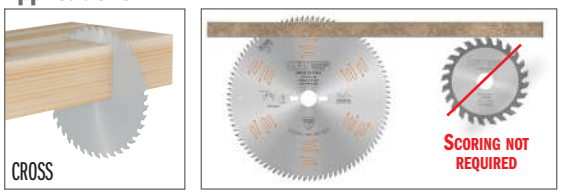
FILLED SLOTS

NOISE/VIBRATION REDUCTION

CMT XTREME BALANCING™

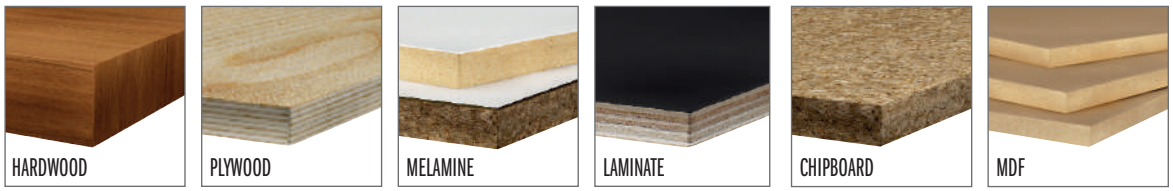
Machines

Applications

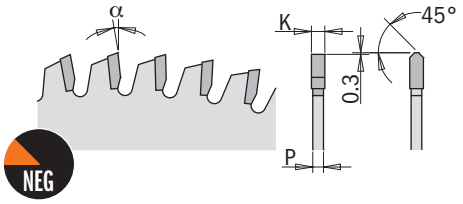


Blade diameter compatibility is contingent on machine type.

Materials



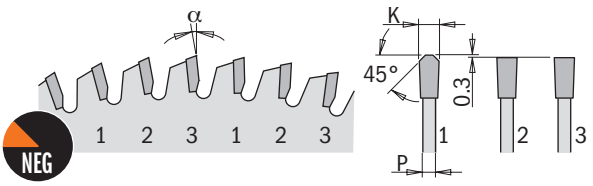
281 ORANGE CHROME®



PERFORMANCE

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

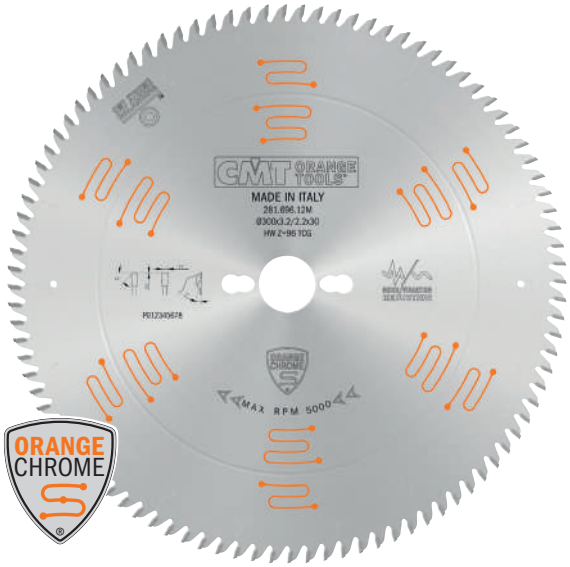
281 INDUSTRIAL



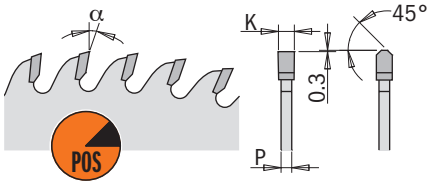
LONG LIFE

PERFORMANCE

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®



HW

PERFORMANCE

WOOD

Machines


CIRCULAR SAW


MITRE SAW


RADIAL ARM


TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications

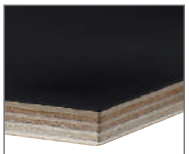

CROSS

Materials


HARDWOOD

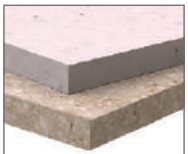

PLYWOOD


MELAMINE


LAMINATE


CHIPBOARD

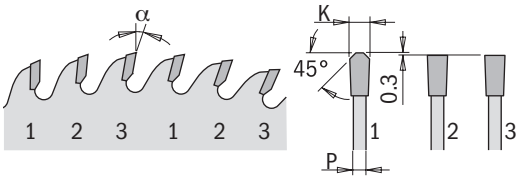

MDF


SOLID SURFACE

	D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
new	160	20	2/6/32	48	2,2	1,6	4°	TCG	5	**281.760.48H** ●
new	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



HW LONG LIFE

PERFORMANCE

WOOD

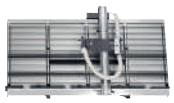
CMT XTREME BALANCING TM

Machines


MITRE SAW


RADIAL ARM

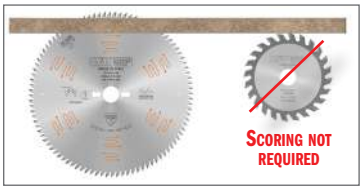

TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications


CROSS

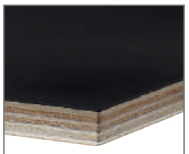


Materials


HARDWOOD


PLYWOOD


MELAMINE

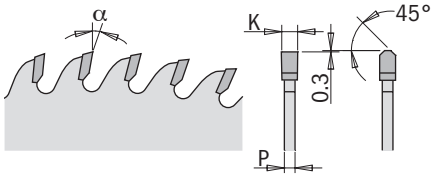

LAMINATE


CHIPBOARD


MDF

D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
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



CMT XTREME BALANCING™

HW

PERFORMANCE

WOOD

Machines


MITRE SAW


RADIAL ARM


TABLE SAW


VERTICAL PANEL

Blade diameter compatibility is contingent on machine type.

Applications

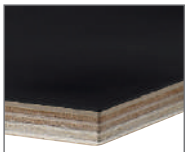

CROSS

Materials


HARDWOOD


PLYWOOD


MELAMINE


LAMINATE


CHIPBOARD

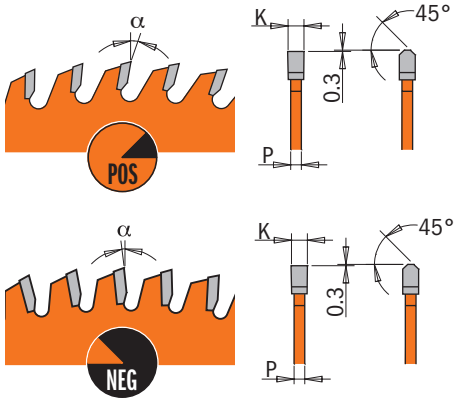

MDF

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



HW

PERFORMANCE

WOOD

Machines

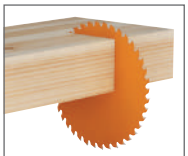

CIRCULAR SAW


SLIDE MITRE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Applications


CROSS

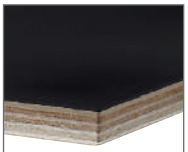
Materials


WOOD


OSB


PLYWOOD


MELAMINE


LAMINATE

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 ●

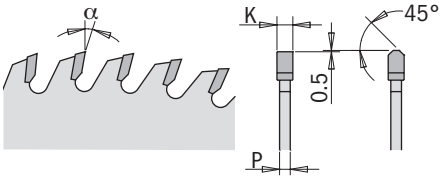
● Ideal for FESTOOL®

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 XTREME

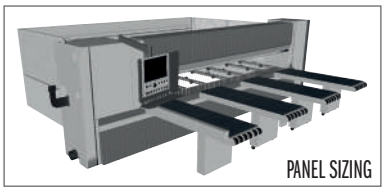


HW

PERFORMANCE

WOOD

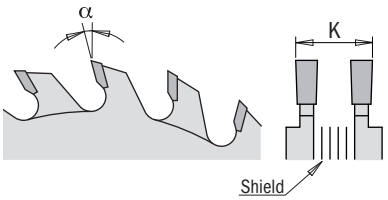
Machines



D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β	LOW NOISE		ORDER NO. INDUSTRIAL	ORDER NO. XTREME
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.

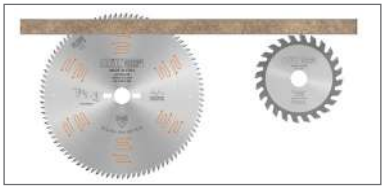
HW LONG LIFE

PERFORMANCE

WOOD

Machines

Applications

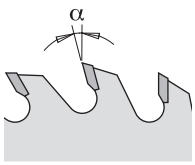


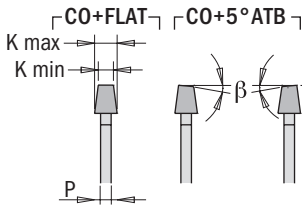
Materials

D mm	B mm		Z	K mm	α	β		ORDER NO.	Spare parts PVC SHIMS
70	20		8+8	2,8-3,6	12°	FLAT	10	**289.070.16H**	299.000.05H
80	20		10+10	2,8-3,6	12°	FLAT	10	**289.080.20H**	299.000.05H
100	20		10+10	2,8-3,6	12°	FLAT	10	**289.100.20H**	299.000.02K
100	22		10+10	2,8-3,6	12°	FLAT	10	**289.100.20K**	299.000.02K
120	20		12+12	2,8-3,6	12°	FLAT	10	**289.120.24H**	299.000.02K
120	22		12+12	2,8-3,6	12°	FLAT	10	**289.120.24K**	299.000.02K
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**	299.000.02K
125	22		12+12	2,8-3,6	12°	FLAT	10	**289.125.24K**	299.000.02K

● **Ideal for ALTENDORF® Rapido System**

288 XTREME

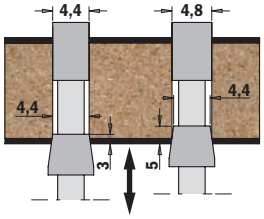




HW LONG LIFE

PERFORMANCE

WOOD



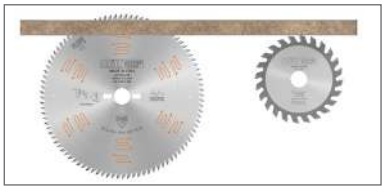
TIPS: suggested for machines with vertical regulation of scoring blade.

Suggested for use with thick kerf or panel sizing blade.

Machines

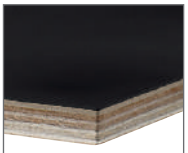
SQUARING

Applications



Materials

MELAMINE



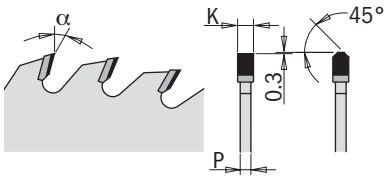
LAMINATE

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

PCD DP LONG LIFE

PERFORMANCE

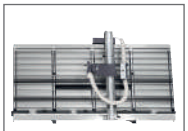
WOOD

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

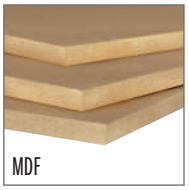

HARDWOOD


PLYWOOD


MELAMINE


LAMINATE

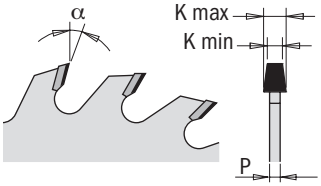

CHIPBOARD


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

PCD DP LONG LIFE

PERFORMANCE

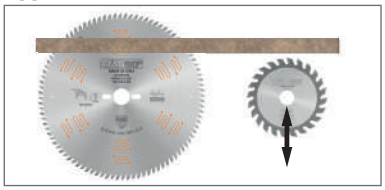
WOOD

Machines


SQUARING

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

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

CMT ORANGE TOOLS®

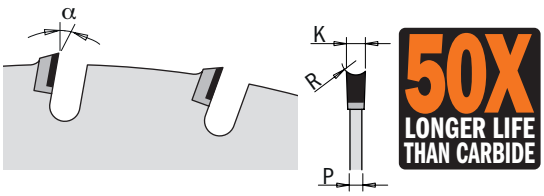
LEUCO
Patent Pending

235 XTREME NOISELESS ALL-AROUND

PCD DP LONG LIFE

PERFORMANCE

MULTI-MATERIALS



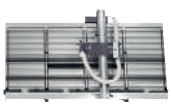
50X LONGER LIFE THAN CARBIDE

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!

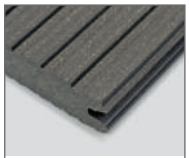

GYPSUM PLASTERBOARD


VENEERED LAMINATED WOOD


PLYWOOD


MULTIPLEX

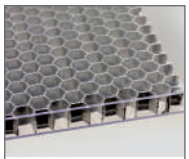

DOUBLE PANEL

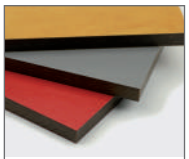

FLOOR PANELING


HONEYCOMB PANEL


SOLID WOOD PANEL


HOLLOW ALU PROFILE

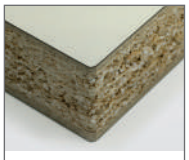

ALU HONEYCOMB PANEL


HPL LAMINATE


POLYETHYLENE


BOARD MATERIAL

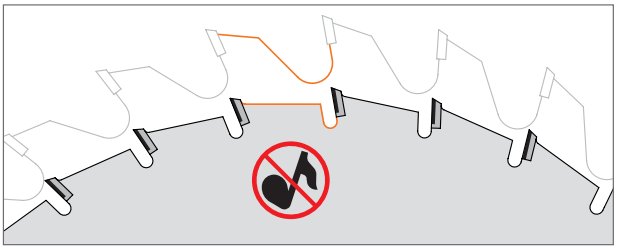

MELAMINE LAMINATED PARTICLEBOARD


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

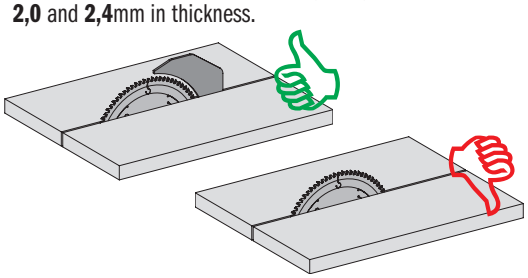
The teeth are surprisingly thin! The cutting width is a mere 2,5 mm and they generate noticeably lower cutting pressure and therefore also require less power during usage.
Resharpenable max 2 times.

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 **2,4**mm 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 timer 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.**

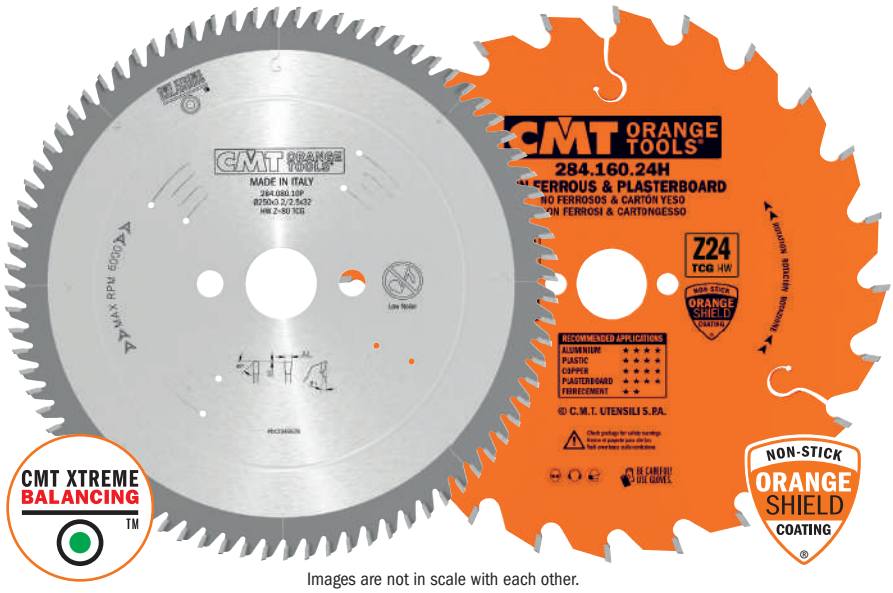
D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
160	20	2/6/32	20	2,2	1,6	10°	HR	1	**235.160.20H**
190	30	2/7/42	24	2,5	2,0	10°	HR	1	**235.190.24M**
216	30	2/7/42	30	2,5	2,0	10°	HR	1	**235.216.30M**
250	30	COMBI3	36	2,5	2,0	10°	HR	1	**235.250.36M**
300	30	COMBI3	44	2,5	2,0	10°	HR	1	**235.300.44M**

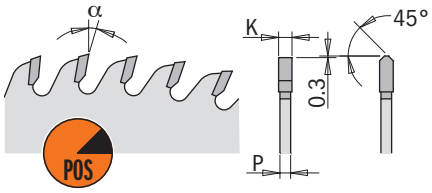
CMT ORANGE TOOLS®

284

HW

NON-FERROUS





Images are not in scale with each other.

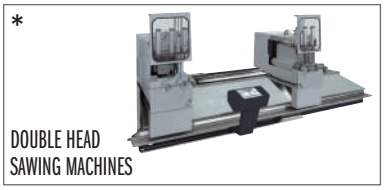
Machines

*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

PERFORMANCE

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®

PERFORMANCE

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®

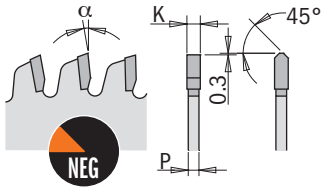
CMT ORANGE TOOLS®

296-297

HW

PERFORMANCE

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

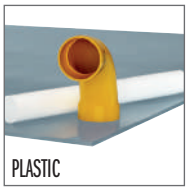
Blade diameter compatibility is contingent on machine type.

Materials


ALUMINIUM


COPPER


BRASS


PLASTIC


MELAMINE

296-297 ORANGE CHROME®

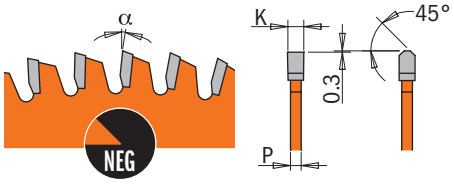
● IDEAL FOR FESTOOL®

	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



HW

PERFORMANCE

NON-FERROUS

Machines


CIRCULAR SAW


MITRE SAW


SLIDE MITRE SAW


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Materials


ALUMINIUM


PLASTIC


COPPER

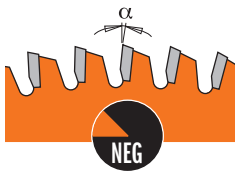

BRASS

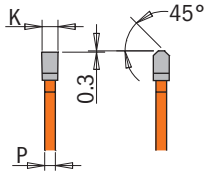

MELAMINE

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®





HW

PERFORMANCE

NON-FERROUS

Machines


CORDLESS CIRCULAR SAW


CIRCULAR SAW


MITRE SAW


SLIDE MITRE SAW

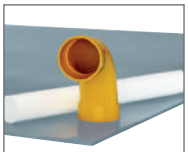

RADIAL ARM


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.
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**
new	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**

new

CMT ORANGE TOOLS®

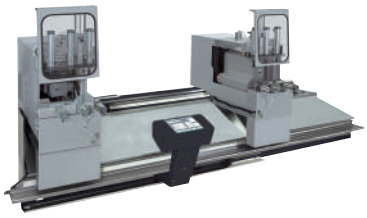
MATERIALS	COATING TYPE: VAPO	COATING TYPE: TiCN
STEEL (<500 N/mm²)	★ ★	★ ★ ★ ★
STEEL (<800 N/mm²)	★ ★	★ ★ ★
STEEL (<1200 N/mm²)	★ ★	★ ★ ★
STAINLESS STEEL	★ ★	★ ★ ★ ★
CAST IRON	★ ★	★ ★ ★ ★
ALUMINIUM/ALLOY AL.	★ ★	★ ★ ★ ★
TITANIUM	★	★ ★
BRONZE	NOT RECOMMENDED	★ ★ ★ ★
COPPER	NOT RECOMMENDED	★ ★ ★
BRASS	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

MATERIALS	V (m/min.) MIN. ~ MAX
STEEL (<500 N/mm²):	30 ~ 60
STEEL (<800 N/mm²):	25 ~ 40
STEEL (<1200 N/mm²):	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

SUGGESTED SPEED (BW - C/HZ)

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

MANUAL,
SEMI-AUTOMATIC
& AUTOMATIC MACHINES



Suggested use with
Emulsion/Spray Oil

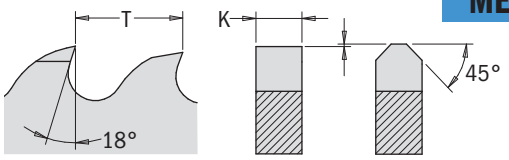
Metal & Steel

HSS
HIGH SPEED STEEL
DMo5

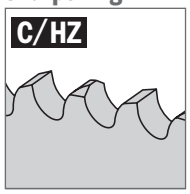
227 HSS LINE

HSS

METAL & STEEL



Sharpening



Applications

SOLID PROFILE/SECTIONS
& THICK PIPES/TUBES

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**

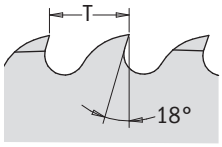
new

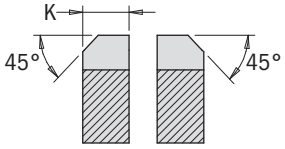
CMT ORANGE TOOLS®

227 HSS LINE

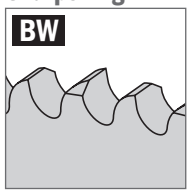
HSS

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**

227 HSS LINE

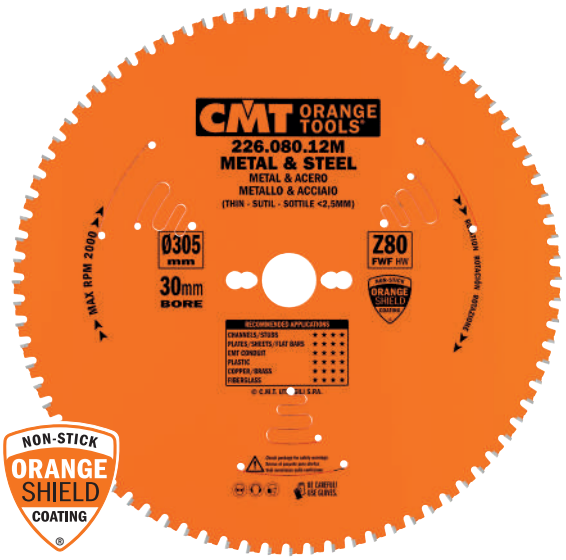
HSS

METAL & STEEL

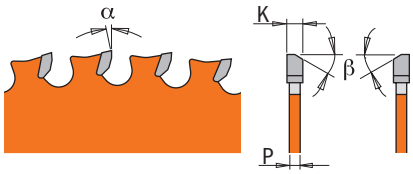
D mm	B mm	PIN HOLE	Z	K mm		β	COATING	ORDER NO.
200	32	2/8/45+2/9/50+2/11/63	0	1,8		Not Sharpened	VAPO	**227.200P**
225	32	2/8/45+2/9/50+2/11/63	0	1,9		Not Sharpened	VAPO	**227.225P**
250	32	2/8/45+2/9/50+2/11/63	0	2,0		Not Sharpened	VAPO	**227.250P**
275	32	2/8/45+2/9/50+2/11/63	0	2,5		Not Sharpened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

new

CMT ORANGE TOOLS®



226 INDUSTRIAL



HW

PERFORMANCE

METAL & STEEL

Machines


CIRCULAR SAW


MITRE & CHOP MITRE SAW

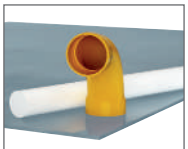
Blade diameter compatibility is contingent on machine type.

Materials

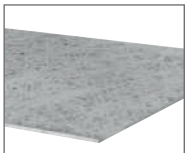

CHANNELS/STUDS/ANGLES


PLATES/SHEETS/FLAT BARS


EMT CONDUIT


PLASTIC


COPPER/BRASS


FIBERGLASS

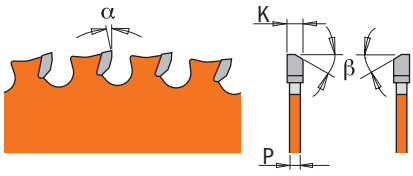
D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β	MAX RPM		ORDER NO.
136	20 (+10)	-	56	1,5	1,2	0°	8° FWF	6000	10	**226.136.56H**
150	20	-	60	1,6	1,2	0°	8° FWF	6000	10	**226.150.60H**
160	20 (+16)	2/6/32	60	2,0	1,6	0°	8° FWF	6000	10	**226.160.60H** ●
165	20	2/6/32	60	1,6	1,2	0°	8° FWF	6000	10	**226.165.60H**
184	30 (+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®

new

CMT ORANGE TOOLS®

226 INDUSTRIAL



HW

PERFORMANCE

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®**

new

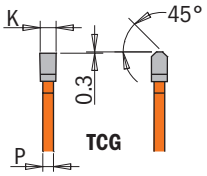
CMT ORANGE TOOLS®

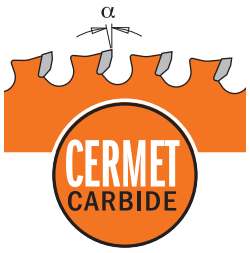
226 INDUSTRIAL

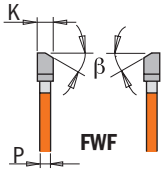
HW LONG LIFE

PERFORMANCE

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

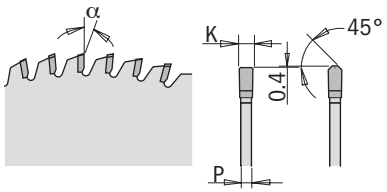

EMT CONDUIT

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



HW

PERFORMANCE

MULTI-MATERIALS

Machines


CIRCULAR SAW

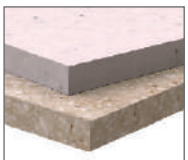

MITRE SAW

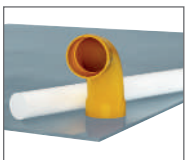

SQUARING


TABLE SAW

Blade diameter compatibility is contingent on machine type.

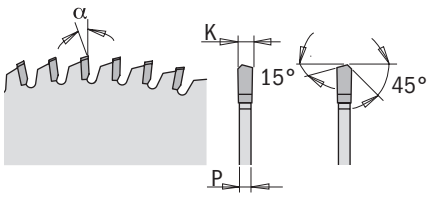
Materials


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



HW

PERFORMANCE

MULTI-MATERIALS

Machines


SLIDE MITRE SAW


SQUARING


TABLE SAW

Blade diameter compatibility is contingent on machine type.

Materials

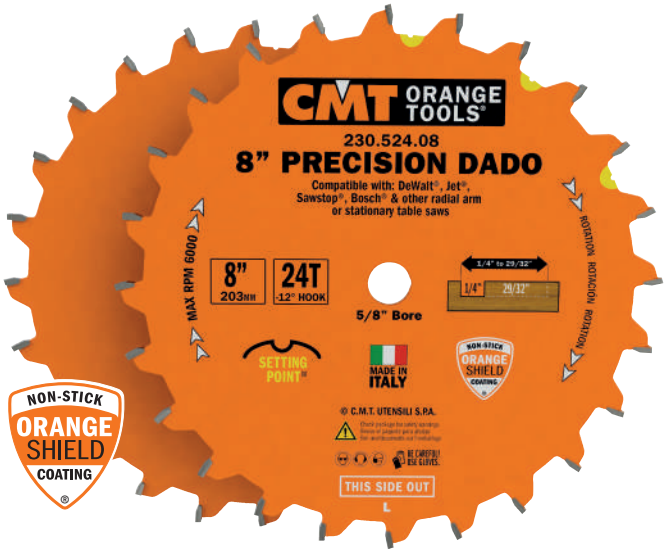

THIN PLASTIC


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**

new

CMT ORANGE TOOLS®



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.

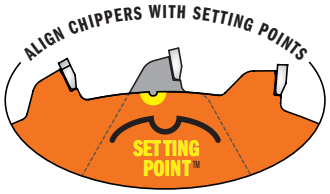
HW

NON-STICK ORANGE SHIELD COATING

★★★★★ PERFORMANCE

WOOD

NOT FOR EU



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


WOOD


LAMINATES & MELAMINES


VENEERED PLYWOODS

Machines


RADIAL ARM

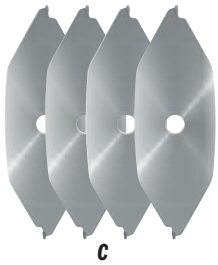

TABLE SAW

SET INCLUDES:

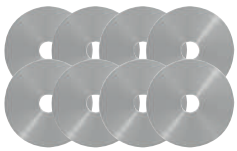
A - Left Outside Blade (qty: 1)
B - Right Outside Blade (qty: 1)
C - Chippers 1/8" (qty: 4)
D - Spacers 1/16" (qty: 2)
E - Shims 0.004" (qty: 5)
F - Shim 0.008" (qty: 1)
G - Shim 0.012" (qty: 1)
H - Shim 0.020" (qty: 1)

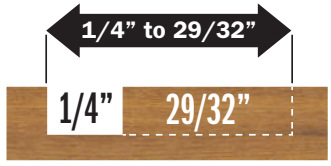
SPARE PART SET: 299.000.02

A-B


C

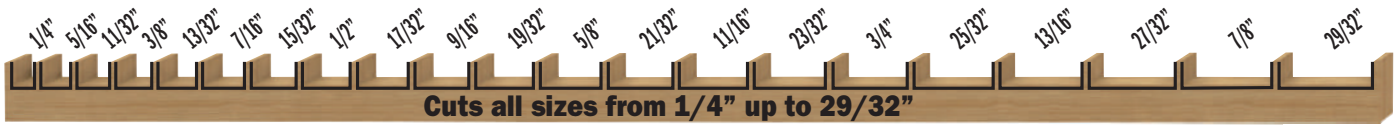

D


E-F-G-H



Download instructions sheets from our website

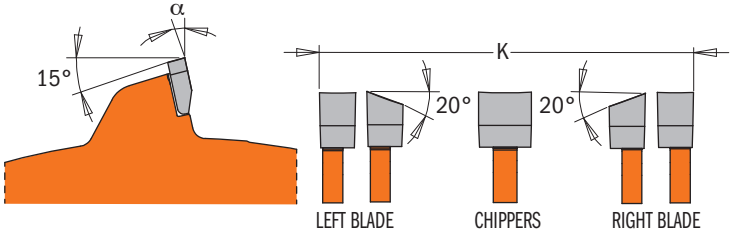
Nominal Widths	1/4"	5/16"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32"	13/16"	27/32"	7/8"	29/32"
Left Blade	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Right Blade	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Chipper 1/8"	0	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4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




230.520.06

Sturdy reusable carrying case

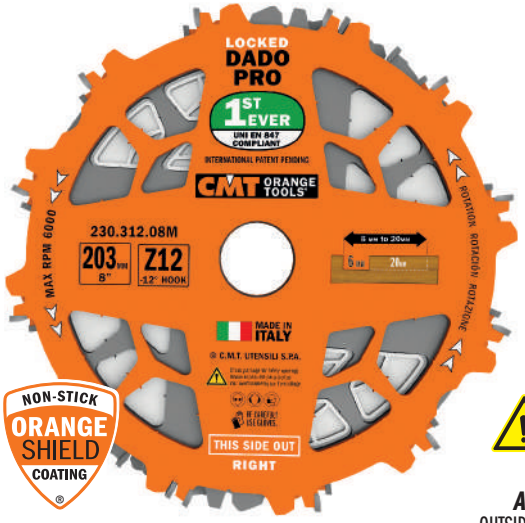

230.524.08



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

new

CMT ORANGE TOOLS®



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.

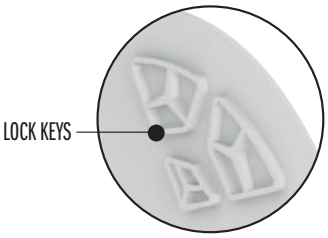
HW NON-STICK ORANGE SHIELD COATING

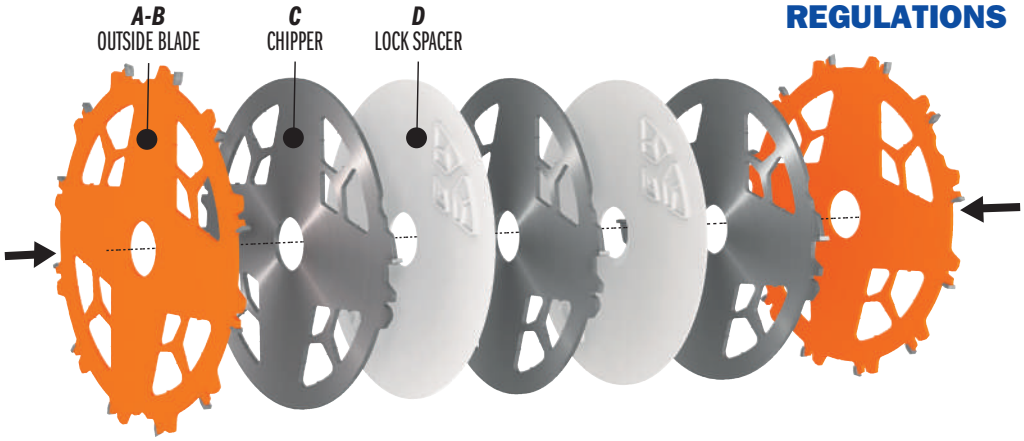
PERFORMANCE

WOOD

1ST EVER UNI EN 847 COMPLIANT

First ever DADO in compliance with EU REGULATIONS





Materials


WOOD


LAMINATES & MELAMINES

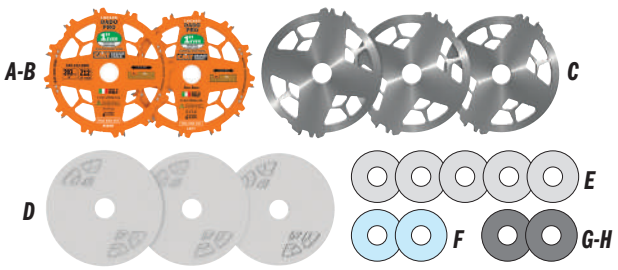

VENEERED PLYWOODS

Machines


RADIAL ARM


TABLE SAW

Sturdy reusable carrying case



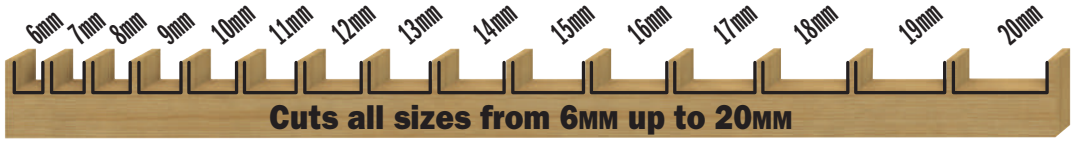
SET INCLUDES:

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)

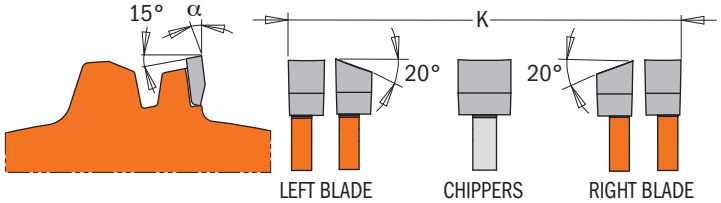
SPARE PART SET

INSTRUCTIONS ON FRONT & BACK OF INSERT MUST BE USED TOGETHER

Download instructions sheets from our website



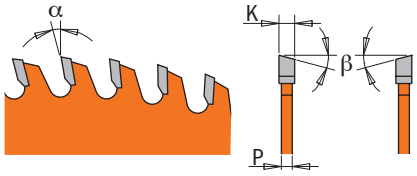
Nominal Widths	6mm	7mm	8mm	9mm	10mm	11mm	12mm	13mm	14mm	15mm	16mm	17mm	18mm	19mm	20mm
Left Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Right Blade	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chipper 3.14mm	0	0	0	0	1	1	1	2	2	2	2	3	3	3	3
Lock Spacer 1.6mm	0	0	1	1	0	1	1	0	1	1	2	0	1	2	2
Shim 0.1mm	0	0	0	2	1	0	0	0	1	1	0	4	0	0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



HW

PERFORMANCE

WOOD

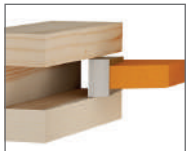
Machines

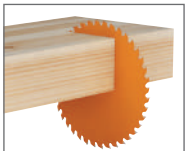

TOUPIE


CHUCK CNC

Blade diameter compatibility is contingent on machine type.

Applications


GROOVING


CROSS

Materials


WOOD

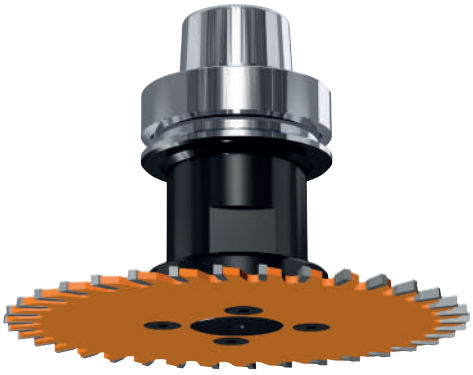

PLYWOOD


MELAMINE

Suitable for these CNC chucks:

183.410.30

183.420.30



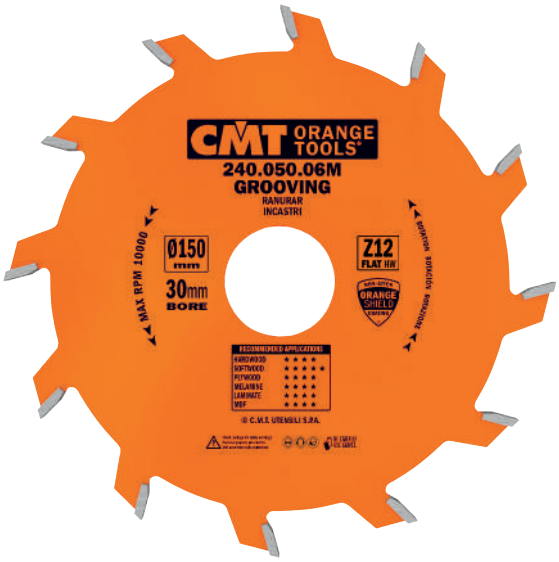
D mm	B mm	PIN HOLE	Z	K mm	P mm	α	β		ORDER NO.
150	30	4/6,5 - 12/48 45°	36	3,0	2,2	5°	5°ATB	10	**240.150.030M**
150	30	4/6,5 - 12/48 45°	36	4,0	3,0	5°	5°ATB	10	**240.150.040M**
150	30	4/6,5 - 12/48 45°	36	5,0	3,0	5°	5°ATB	10	**240.150.050M**
150	30	4/6,5 - 12/48 45°	36	6,0	3,0	5°	5°ATB	10	**240.150.060M**

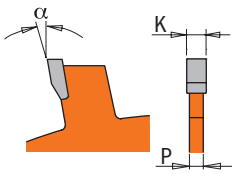
240 INDUSTRIAL

HW

PERFORMANCE

WOOD





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

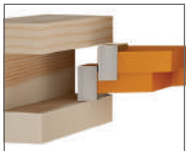
Machines

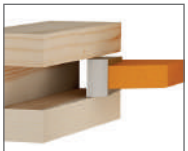

TOUPIE


CHUCK CNC

Blade diameter compatibility is contingent on machine type.

Applications


GROOVING/STACKING


GROOVING

Materials

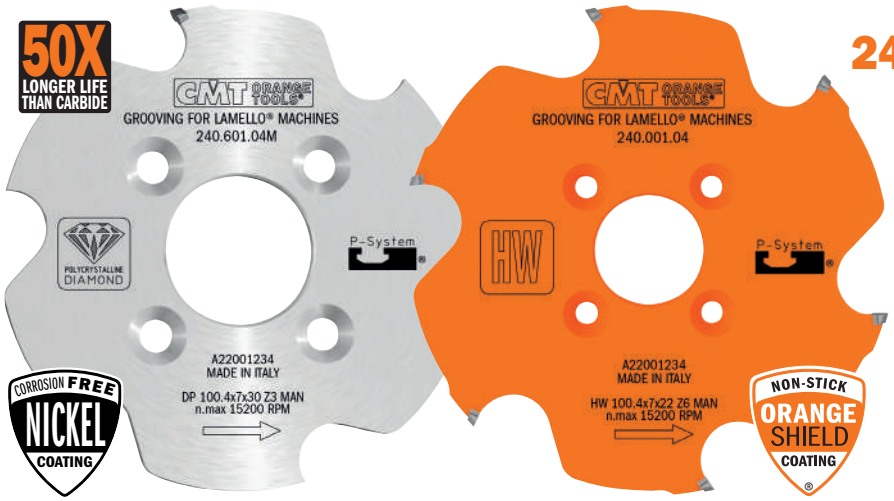

WOOD


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



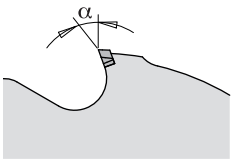
240 XTREME

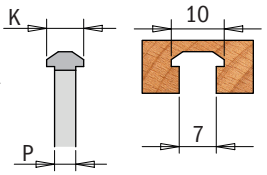
P-System®

PCD DP HW

PERFORMANCE

WOOD





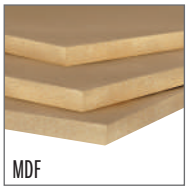
Machines


BISCUIT JOINER

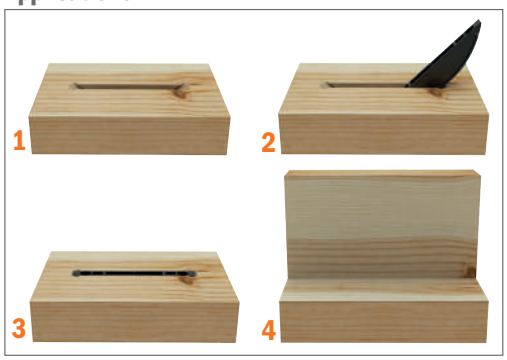

CNC MACHINES

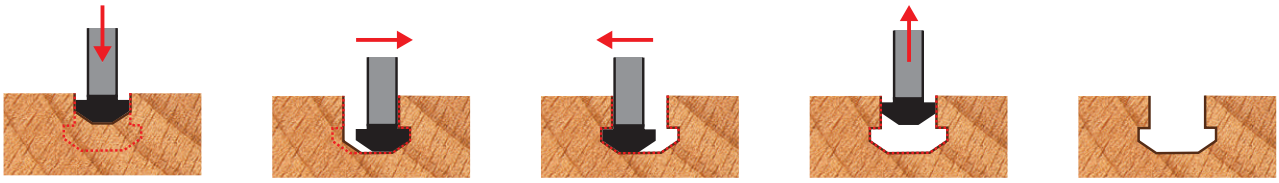
Materials


WOOD


MDF

Applications





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**

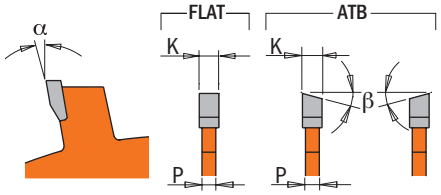
Biscuit Joiner

240-241 INDUSTRIAL

HW

PERFORMANCE

WOOD



Machines

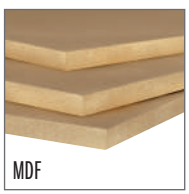

BISCUIT JOINER

Applications


BISCUIT JOINER

Materials

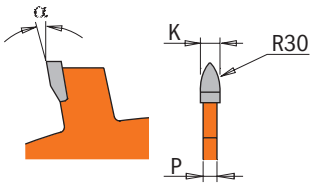

WOOD


MDF

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®

240.004.04 XTREME



HW

PERFORMANCE

WOOD

Machines

BISCUIT JOINER

Applications

PATCHWORK AND REPAIR

Materials

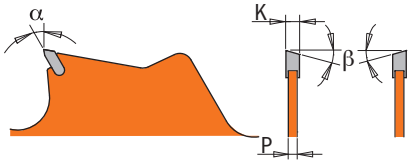
HARDWOOD

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®



HW

PERFORMANCE

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.

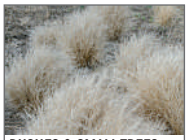
HEAVY DUTY PLATE – THIN, LIGHT AND STRONG
Cut from the finest steel. Remarkably thin kerf and specifically designed perforations considerably reduce blade weight thereby reducing tool workload.

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

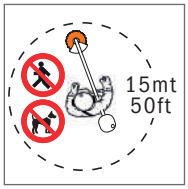
BRUSH CUTTER

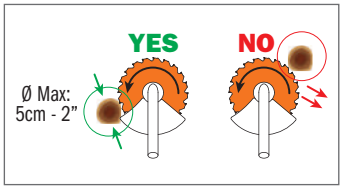
Materials



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**
new 250	25,4 (+20)	12.000	40	2,0	1,4	2°	8° ATB	10	**298.250.40**

Calibration & Sanding Disks

299.11

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

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

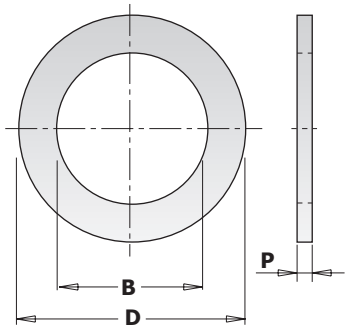
The CMT blade stabilizer virtually eliminates rim vibration to make cleaner, straighter cuts and extend the life of your CMT saw blade. It also helps lessen noise caused by vibration during cutting.

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	288.160.360	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