

Product Range

CIRCULAR SAW

UNIVERSAL
ENTERPRISES



High-quality, Sharp And Durable
CIRCULAR SAW



PLATINUM SERIES

NON COATED CIRCULAR SAW BLADE

FEATURES

Designed for cutting sticky materials.
Keep high precision in normal speed.
Suitable for cutting copper, aluminum, mild steel materials.

SPECIFICATION

Application: Low carbon steel (stickier steel)

(Mechanical structure carbon steel, Aluminum and copper of carbon contents within 45%)

Parameter: Line speed 100 – 150m/min

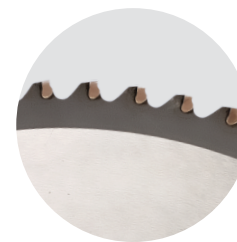
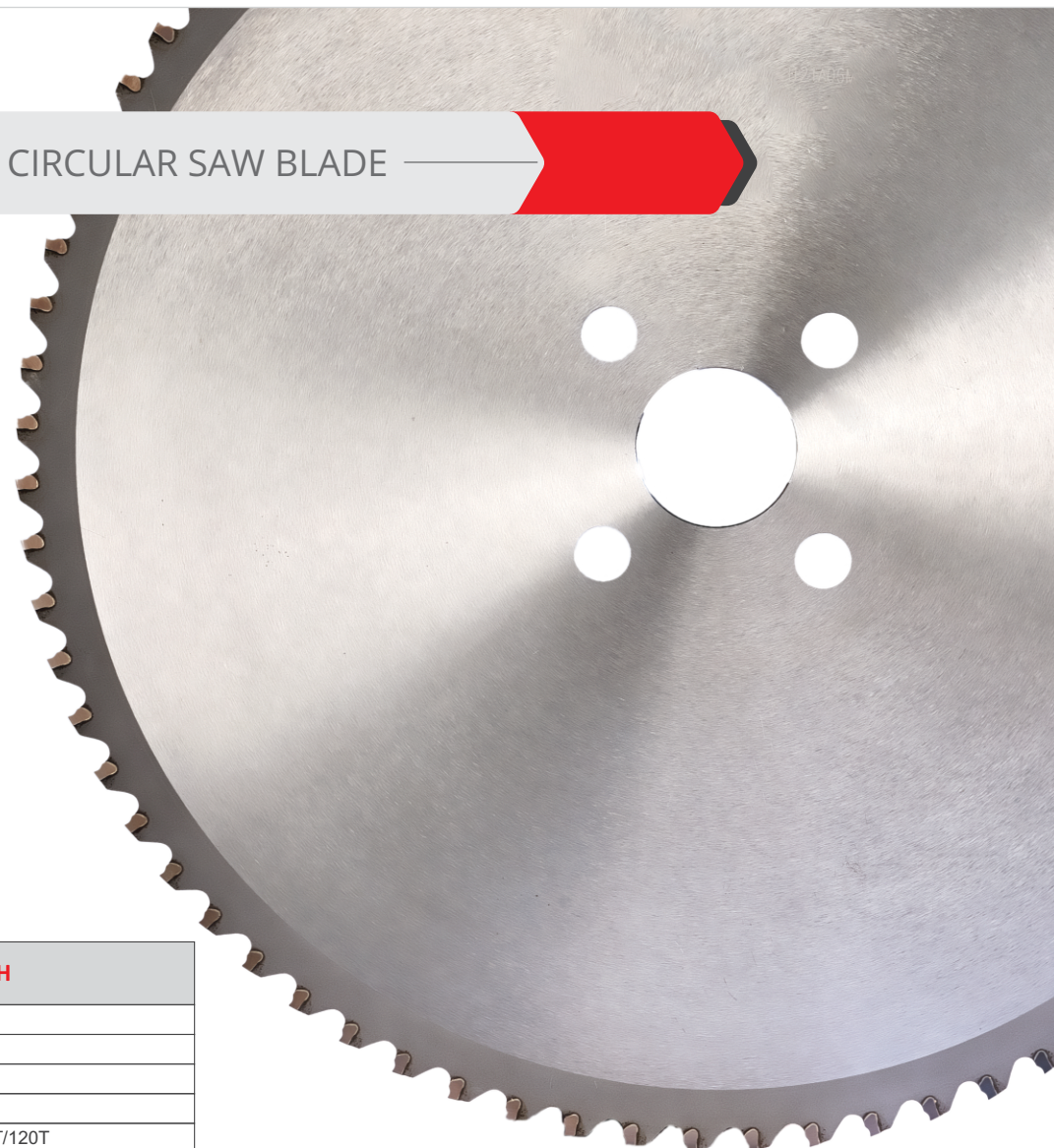
Feeding speed: 0.05-0.10mm (Adjustable according to equipment or cutting material)

Cutting Fluid: Special cooling lubricants

Tooth tip material: Cermet

Plate Material: SKS51

OUT DIAMETER	PLATE THICKNESS	KERF THICKNESS	BORE DIAMETER	NUMBER OF TEETH
160	1.5	1.8	40	48T
180	1.7	1.8	40	54T
200	1.7	2.0	40	54T
230	1.7	2.0	40	60T
250	1.7/1.75	2.0	32	54T/60T/72T/80T/90T/100T/120T
285	1.7/1.75	2.0	32	40T/60T/72T/80T/100T/120T/140T
300	1.75/2.0	2.0	32	50T/54T/60T/72T/80T
315	2.0	2.25	32	54T/60T/72T/80T/100T/120T/130T
330	2.0	2.25	32	60T/72T/80T/100T/120T
360	2.25	2.6	40	40T/60T/72T/80T/100T/120T
380	2.25	2.6	40	40T/50T/54T/60T/72T/80T/100T/120T
400	2.25	2.7	50	50T/60T/72T/80T
425	2.25	2.7	50	60T/72T/80T/100T
460	2.25	2.7	50	40T/50T/54T/60T/72T/80T/100T/120T
485	2.25	2.7	50	40T/60T/72T/80T/100T/120T
520	2.5	2.7	50	48T/60T/80T/100T
530	2.5	2.7	50	72T
560	2.5	3.0	50	60T
630	2.7	3.4	80	60T/72T/80T/100T/120T
650	2.7	3.4	80	100T



— P L A T I N U M —

SUPREME SERIES

NON COATED CIRCULAR SAW BLADE

FEATURES

Qualified for high speed cutting with improved life.
To keep longer life for cutting with normal speed.
Improved life under complex cutting condition.
High performance in cutting high carbon steel materials.
Avoid blades scuffing during cutting.

SPECIFICATION

Application: Medium and high carbon steel .
(Mechanical structure carbon steel, alloy steel of
0.25% - 0.60% carbon contents)

Parameter: Line speed 100 – 130m/min

Feeding speed: 0.05 – 0.10mm (Adjustable
according to different equipment or cutting material)

Cutting Fluid: Special cooling lubricants

Plate Material: SKS51

OUT DIAMETER	PLATE THICKNESS	KERF THICKNESS	BORE DIAMETER	NUMBER OF TEETH
160	1.5	1.8	32	48T
180	1.5	1.8	32	54T
200	1.7	2.0	32	54T
230	1.7	2.0	32	60T
250	1.7/1.75	2.0	32	60T/72T/80T/90T/100T
285	1.7/1.75	2.0	32/40	60T/72T/80T/100T/120T
300	1.75/1.75	2.0	32	50T/54T/60T/72T/80T
315	2.0	2.25	32	60T/72T/80T/100T/120T
330	2.0	2.25	32	60T/72T/80T/100T/120T
360	2.25	2.6	40/50	60T/72T/80T/100T/120T
380	2.25	2.6	40/50	60T/72T/80T/100T/120T
400	2.25	2.7	50	50T/60T/72T/80T
425	2.25	2.7	50	60T/72T/80T/100T
460	2.25	2.7	50	50T/54T/60T/72T/80T/100T/120T
485	2.25	2.7	50	60T/72T/80T/100T/120T
520	2.5	3.0	50	60T/72T/80T/100T
560	2.5	3.0	50	60T/72T/80T/100T
630	2.7	3.4	80	60T/72T/80T/100T/120T

— S U P R E M E —

TOUGH CUT SERIES

COATED CIRCULAR SAW BLADE

FEATURES

Suitable for high speed cutting.
Hair cutting precision with excellent surface finish on cutting surface.
Improved life and cutting efficiency due to reduced coefficient of friction and the temperature on teeth during cutting.
Multi-purpose (Such as: low carbon steel, medium carbon steel high carbon steel application Characteristics)

SPECIFICATION

Application: High carbon Medium carbon Steel.
(Mechanical structure carbon steel, alloy steel of 0.60% - 1.7% carbon contents)

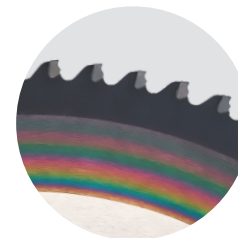
Parameter: Line speed 100 – 130m/min

Feeding speed: 0.05 – 0.8mm (Adjustable according to different equipment or cutting material)

Cutting Fluid: Special cooling lubricants

Plate Material: SKS51

OUT DIAMETER	PLATE THICKNESS	KERF THICKNESS	BORE DIAMETER	NUMBER OF TEETH
160	1.5	1.8	40	48T
180	1.7	1.8	40	54T
200	1.7	2.0	40	54T
230	1.7	2.0	40	60T
250	1.7/1.75	2.0	32	54T/60T/72T/80T/90T/100T/120T
285	1.7/1.75	2.0	32	40T/60T/72T/80T/100T/120T/140T
300	1.75/2.0	2.0	32	50T/54T/60T/72T/80T
315	2.0	2.25	32	54T/60T/72T/80T/100T/120T/130T
330	2.0	2.25	32	60T/72T/80T/100T/120T
360	2.25	2.6	40	40T/60T/72T/80T/100T/120T
380	2.25	2.6	40	40T/50T/54T/60T/72T/80T/100T/120T
400	2.25	2.7	50	50T/60T/72T/80T
425	2.25	2.7	50	60T/72T/80T/100T
460	2.25	2.7	50	40T/50T/54T/60T/72T/80T/100T/120T
485	2.25	2.7	50	40T/60T/72T/80T/100T/120T
520	2.5	2.7	50	40T/60T/80T/100T
530	2.5	2.7	50	72T
560	2.5	3.0	50	60T
630	2.7	3.4	80	60T/72T/80T/100T/120T
650	2.7	3.4	80	100T



— T O U G H C U T —

XPERT SERIES

GOLD COATED CIRCULAR SAW BLADE

FEATURES

Smooth and bar free cutting surface.
Stable cutting life.
High cutting precision.
Maximum cutting 20 square meters.

SPECIFICATION

Application: Stainless steel and special stainless steel.

Parameter: Line speed 50 – 80m/min

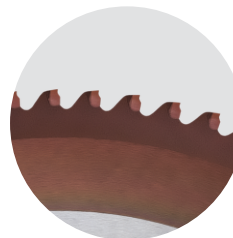
Feeding speed: 0.02 – 0.05mm

(Adjustable according to
different equipment or cutting material)

Cutting Fluid: Special cooling
lubricants for cutting stainless steel

Plate Material: SKS51

OUT DIAMETER	PLATE THICKNESS	KERF THICKNESS	BORE DIAMETER	NUMBER OF TEETH
250	1.7/1.75	2.0	32	54T/60T/72T/80T/100T/120T
285	1.7/1.75	2.0	32	54T/60T/72T/80T/100T/120T
315	2.0	2.25	32	60T/72T/80T/100T/120T
330	2.0	2.25	32	60T/72T/80T
360	2.25	2.6	40	54T/60T/72T/80T/100T/120T
380	2.25	2.6	40	54T/60T/72T/80T/100T/120T
425	2.25	2.7	50	60T/72T/80T/100T/120T
460	2.25	2.7	50	60T/80T/100T/120T
485	2.25	2.7	50	60T/80T
520	2.5	2.7	50	60T
560	2.5	3.0	50	60T
630	2.7	3.4	80	60T



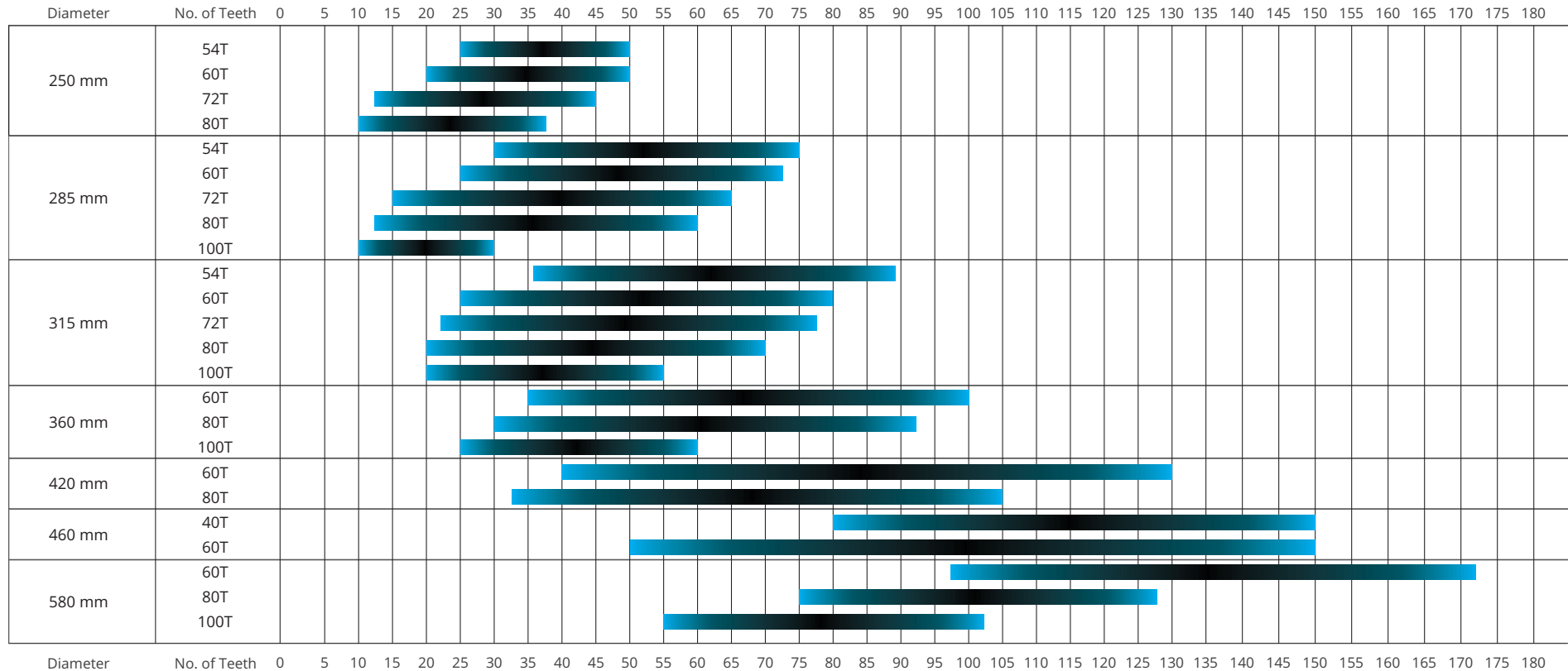
— X P E R T —

— SELECTING THE CORRECT TEETH & MATERIAL SIZE —

Metal Working

Material Size in mm (Solid)

Correspondence Table of diameter and number of teeth



Note : * The actual size of cut material may very depending on its type and the cutting conditions. Chart is rough guide only.
* Other Sizes and teeth are also available upon request.

BEST SUITABLE

SUITABLE

TECHNICAL INFORMATION FOR CIRCULAR SAW

OUT DIAMETER	PLATE THICKNESS	KERF THICKNESS	BORE DIAMETER	NUMBER OF TEETH	PIN HOLES
250	1.7/1.75	2.0	32	54T/60T/72T/80T	4 -9 -50 PCD / 4 -11- 63 PCD
285	1.7/1.75	2.0	32	54T/60T/72T/80T/100T	4 -9 -50 PCD / 4 -11- 63 PCD
315	2.0	2.05	32	54T/60T/72T/80T/100T	4 -9 -50 PCD / 4 -11- 63 PCD
360	2.25	2.6	40/50	60T/80T/100T	4 -11-90 PCD / 4 -15- 80 PCD
425	2.25	2.7	50	60T/80T	4-15-80 PCD
460	2.25	2.7	50	40T/60T	4 -11-90 PCD / 4 -14 -90 PCD / 4 -15-80 PCD
560	2.5	3.0	50	60T/80T/100T	4 -22-120 PCD

Note : Circular Saw Available in above Dimensions and Specifications and other dimensions available.

RECOLLENDED SAWING PARAMETERS AND MIST OIL

MATERIALS	JIS	CUTTING SPEED (M/min)	TIP LOAD (mm)
STRUCTURAL STEEL	St 37 / 42	90 - 130	0.04 - 0.09
	St 52 / 60	90 - 120	0.04 - 0.09
CASE HARDENED STEELS	C10 / C15	100 - 130	0.04 - 0.08
	16 MnCr 5	100 - 120	0.04 - 0.08
	20 CrMo 5	100 - 120	0.04 - 0.08
	21 NiCrMo 2	100 - 120	0.04 - 0.08
NITRIDING STEELS	34 CrAlNi 7	90 - 120	0.04 - 0.09
	34 CrAlMo 5	90 - 120	0.04 - 0.09
MACHINING STEELS	9 S 20	110 - 130	0.04 - 0.08
	9 S Min 28	110 - 130	0.04 - 0.08
QUENCHED AND TEMPERED STEELS	C 35 / 45	90 - 120	0.05 - 0.09
	42 CrMo 4	90 - 110	0.04 - 0.08
	34 CrNiMo 6	90 - 110	0.04 - 0.08
BEARING STEELS	115 Cr V3	80 - 100	0.03 - 0.07
	100 Cr6	80 - 100	0.03 - 0.07

MATERIALS	JIS	CUTTING SPEED (M/min)	TIP LOAD (mm)
SPRING STEEL	65 Si 7	90 - 100	0.04 - 0.08
	50 CrV 4	90 - 100	0.04 - 0.08
TOOL STEELS	C 125 W	50 - 70	0.03 - 0.07
	40 CrMnMo 7	70 - 90	0.03 - 0.07
	X40 CrMov 5 1	50 - 70	0.03 - 0.06
	X155 CrVmo 12 1	50 - 70	0.03 - 0.06
HIGH SPEED STEELS	S 6-5-2	40 - 70	0.03 - 0.06
	S 2-20-1-8	40 - 70	0.03 - 0.06
FERRITIC SS	X10 CrA 124/446	40 - 70	0.03 - 0.06
STAINLESS STEELS	X20 Cr 13	40 - 70	0.03 - 0.08
	X5 CrNi 18 10	40 - 70	0.03 - 0.08
	X6 CrNiMoTi 17 12 2	40 - 70	0.03 - 0.08
COLD FORGING STEELS	38 Cr 2	80 - 110	0.04 - 0.07
	37 Cr 4	90 - 110	0.04 - 0.08

*To determine the number of Revolution Per Minute (RPM) to Calculated,
 $RPM = 1000V / D$ where, V = cutting speed (m/min), D = Saw Diameter (mm)

CIRCULAR SAW MIST CUTTING OIL

⬆ BENEFITS

Improved tool life. Elimination of air born mist particles. Increased production speed.
 Cost Effective. Environmental Friendly. Non-Hazardous to employee.

⬆ TC CUT 32

premium quality vegetable based metal cutting oil.
 it is formulated to work with ferrous metals. It is non-toxic, non-hazardous, biodegradable, non-polluting and is as per MSDS norms.

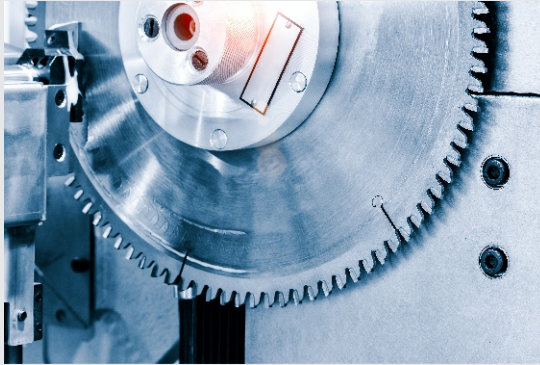
⬆ G CUT 22

Highly efficient and inexpensive vegetable based metal cutting oil. It is formulated to work with non ferrous metals, plastics, composites and wood. It is non-toxic, non-hazardous, biodegradable, non-polluting and is as per MSDS norms.



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UNIVERSAL ENTERPRISES

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