FINE CUT Tools & Machinery

CARBIDE TIPPED BI-METAL BAND SAW BLADES

CARBIDE TIPPED CrAlN COATED CIRCULAR SAW BLADES

HIGH SPEED METAL CIRCULAR SAW MACHINE

WOOD CUTTING BAND SAW BLADES

FINE CUT Tools & Machinery

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finecutblade.com

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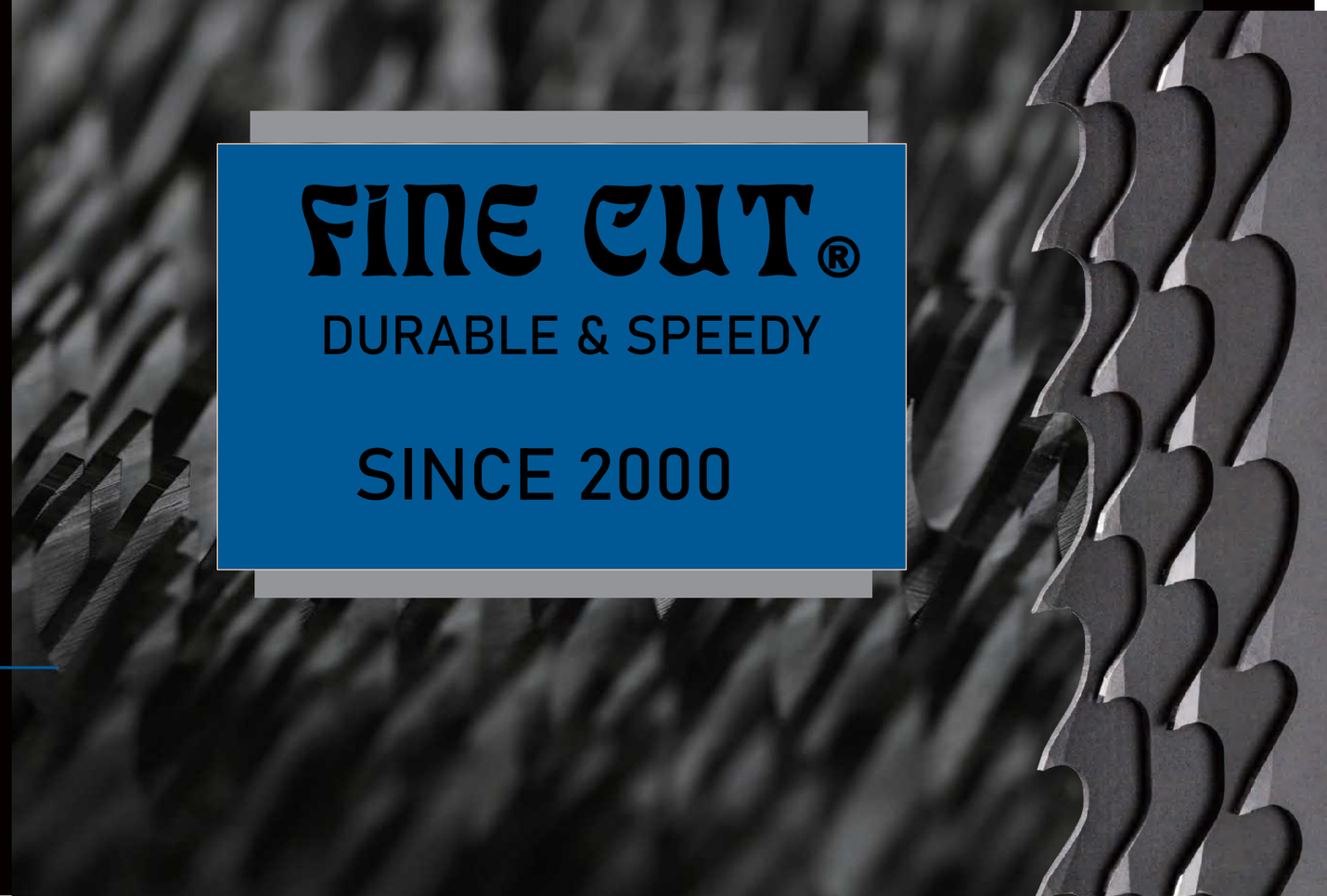


CORPORATE PROFILE

2000

Since

- Focus on Premium Quality
- National High-Tech Enterprise
- 15+ National Sales Networks

Customizable Approach

ABOUT US

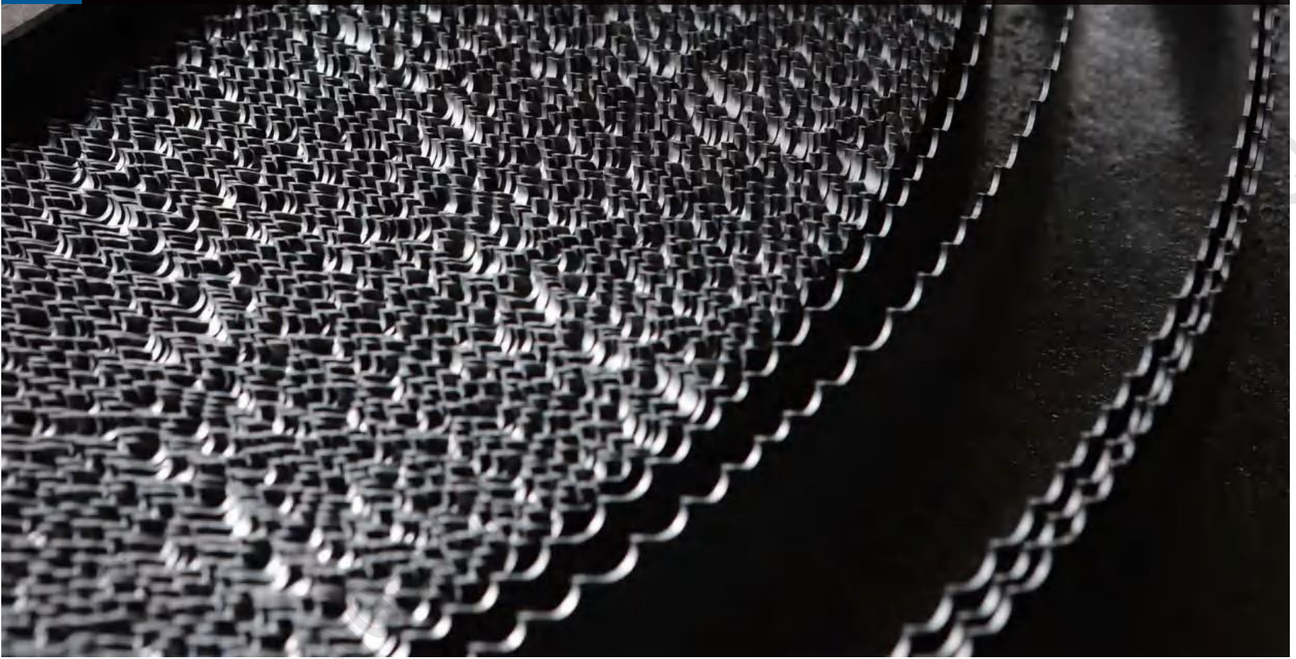
Fine Cut was founded in 2000. It is a national high-tech enterprise focusing on the new metal materials and the national-level “Specialized, Sophisticated, Distinctive, and Innovative Little Giant” enterprise. The company mainly engages in R&D, production, sales, and services in terms of high-strength and high-toughness materials, multi-metal composite materials, machinery, die-cutting tools, sawing tools, intelligent equipment, functional components, and other series of products. Fine Cut is committed to providing product lines and integrated accessory equipment of cutting solutions to light, heavy, and military industries, machinery, construction and building materials, intelligent manufacturing, and other fundamental sectors of the national economy.

Fine Cut took the lead in drafting and formulating the quality of carbide tipped circular saw. Its product technology and performances have reached the leading level internationally. Since 2011, the market share of rule band saw blades welding machine, one of the company's major products, has ranked first in the India for consecutive years. At the same time, the company is a leading domestic manufacturer of bi-metal band saw blades.

With a R&D team of nearly 20 people, the company continues to carry out R&D activities for new products, equipment, technology, and materials. It undertakes a number of national, provincial, and municipal STS and key regional science and technology projects.

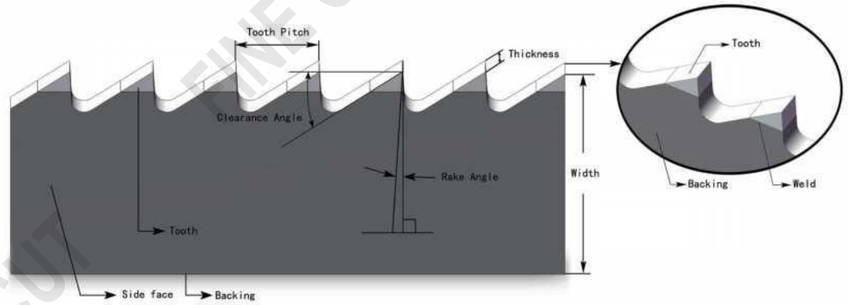
Fine Cut"s main suppliers and clients are well-known enterprises at home and abroad. Its overseas markets have been laid out in North and South America, Europe, Africa, Southeast Asia, the Middle East, and other countries and regions along the Belt and Road

TECHNICAL INFORMATION



Dimensions (width, thickness, and length)	SPECIFICATIONS								
Width x Thickness (mm)	13x0.65	16x0.9	19x0.9	27x0.9	34x1.1	41x1.3	54x1.6	67x1.6	80x1.6
Bi-Metal Coil Length (m)	100	100	100	100	85	75	75	75	60
Carbide Tipped Coil Length (m)	—	—	—	90-100	90-100	90-100	70-80	70-80	70-80

The length and width of the welded blade depend on the sawing machine and the workpiece.



Effcient Cutting Result = Appropriate Machine + Well-Selected Band Saw Blade + Proper Operation

For cutting bundled materials, multiply the wall thickness by two.

TPI / Wall Thickness (mm)	Pipe/Profiles Diameter (mm)													
	15	20	40	60	80	100	120	150	200	300	400	500	600	600<
2	14/18	14/18	14/18	10/14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8
3	14/18	14/18	10/14	10/14	10/14	8/12	8/12	8/12	8/12	6/10	6/10	6/10	5/8	5/8
4	14/18	10/14	10/14	10/14	8/12	8/12	6/10	6/10	6/10	5/8	5/8	4/6	4/6	4/6
5	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6
6	10/14	10/14	8/12	8/12	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4
8		10/14	8/12	6/10	6/10	5/8	5/8	4/6	4/6	4/6	4/6	4/6	4/6	3/4
10			6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6	3/4	3/4	3/4
12			6/10	5/8	5/8	4/6	4/6	4/6	4/6	4/6	¼	3/4	3/4	3/4
15			6/10	4/6	4/6	4/6	4/6	4/6	3/4	3/4	¼	3/4	3/4	2/3
20				4/6	4/6	3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3	2/3
30					3/4	3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3	2/3
50							2/3	2/3	2/3	2/3	2/3	2/3	2/3	1.4/2.0
75									2/3	2/3	2/3	1.4/2.0	1.4/2.0	1.4/2.0
100											1.4/2.0	1.4/2.0	1.0/1.5	1.0/1.5
150											1.4/2.0	1.4/2.0	1.0/1.5	1.0/1.5
200												1.0/1.5	0.85/1.30 0.75/1.00	0.85/1.30 0.75/1.00
250													0.85/1.30 0.75/1.00	0.85/1.30 0.75/1.00
300<														0.85/1.30 0.75/1.00

Please note: all product technical information, parameters, specifications, dimensions, and designs shown in this catalog are subject to change without prior notice. For more information, please contact Fine Cut.

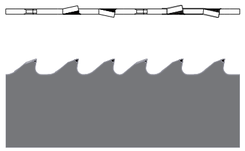
TOOTH PITCH SELECTIONS for SOLID MATERIALS

TPI	14/18	14	10/14	8/12	6/10	8	5/8	6	4/6
Workpiece Dia. / Width (mm)	D≤8	D≤15	5≤D≤15	15≤D≤30	20≤D≤40	20≤D≤40	30≤D≤50	40≤D≤70	50≤D≤100

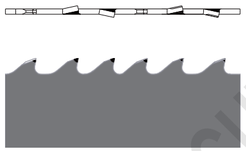
TPI	4	3/4	3	2/3	1.4/2.0	1.0/1.5	0.75/1.0 0.85/1.3	0.75/1.0
Workpiece Dia. / Width (mm)	70≤D≤120	80≤D≤150	120≤D≤150	140≤D≤300	200≤D≤600	300≤D≤750	700≤D	750≤D

CARBIDE TIPPED BAND SAW BLADES

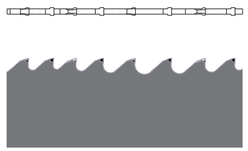
TOOTH TYPES



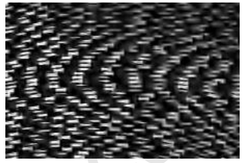
FL Type



FML Type

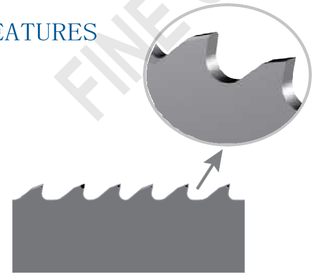


ML Type



FL Type

FEATURES



Specifications	TPI								
Width x Thickness (mm)	3/4	3	2/3	2/3 (+)	2	1.7/2.5	1.4/2.0	1.0/1.5	0.75/1.25
27x0.9	●	●	●	●	●				
34x1.1	●	●	●	●	●				
41x1.3	●		●	●		●	●		
54x1.6				●		●	●	●	●
67x1.6				●			●	●	●
80x1.6							●	●	●

● Represents regular stock. Other specs on request.

Special Tooth Design

With the special tooth geometry design, metal chips produced by sawing are of uniform size, which can effectively decrease the cutting pressure.

High-Quality Spring Steel

The backing materials are high-quality alloy spring steel, which have superior anti-fatigue performance, toughness, and strength after being processed with advanced equipment and heat treatment technology.

High-End Carbide Grains

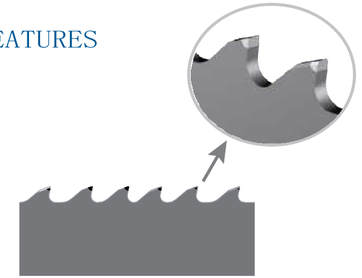
The tooth materials are high-end ultra-fine carbide grains. The impact resistance of the tooth is significantly improved through the advanced automatic welding process and technology, which can effectively reduce tooth breakage.

Applications

Titanium and titanium alloy, tool steel, stainless steel, copper alloy, graphite, and other materials.

FML Type

FEATURES



Specifications	TPI						
Width x Thickness (mm)	3/4	2/3	2/3 (+)	1.7/2.5	1.4/2.0	1.0/1.5	0.75/1.25
27x0.9							
34x1.1							
41x1.3							
54x1.6							
67x1.6							
80x1.6							

● Represents regular stock. Other specs on request.

Special Tooth Geometry

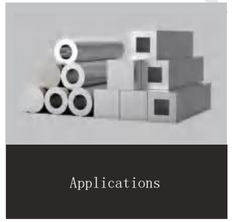
The new tooth geometry design increases the sawing efficiency and decreases the cutting pressure.

Superior Quality Spring Steel

The superior spring steel backing materials have excellent anti-fatigue performance, toughness, and strength after being processed with advanced equipment and heat treatment technology.

High-End Carbide Grains Tooth Materials

The tooth materials are high-end ultra-fine carbide grains. The impact resistance of the tooth is significantly improved through the advanced automatic welding process and technology, which can effectively reduce tooth breakage.

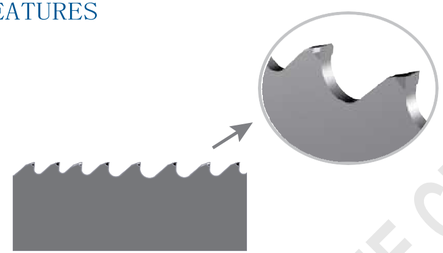


Applications

High-temperature alloy, nickel-based alloy, case-hardened steel, stainless steel, and other difficult-to-cut materials.

ML Type

FEATURES



Specifications	TPI	
Width x Thickness (mm)	2/3	1.4/2.0
27x0.9		
34x1.1		
41x1.3		
54x1.6		

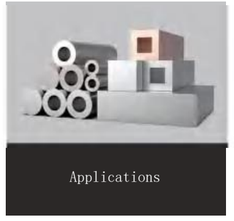
● Represents regular stock. Other specs on request.

Special Tooth Design

The new tooth geometry design ensures high sawing efficiency and smooth cutting surfaces.

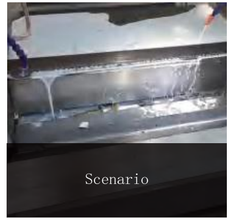
CNC Grinding Technology

The high-precision CNC grinding technology features good working accuracy and can fully leverage the advantages of the tooth geometry design.



Applications

Non-ferrous metals, aluminum, aluminum ingot, copper, copper all



Scenario

PRODUCT INTRODUCTION

Superior Raw Materials: backing materials (e.g.: X32, RM80) and tooth materials (e.g.: M42, M51, PM-HSS 2042) are provided by top-quality suppliers, which ensure the quality of products from the source.

Applications: cutting and processing in the fields of machinery, electronics, automotive parts, molds, metal mining, ferrous metallurgy, aerospace, frozen foods, woods, etc.

Wide Range of Tooth Types: bi-metal band saw blades have various tooth types and tooth pitches for selection, such as standard tooth, rounded back tooth, SH tooth, and impact resistant tooth. We can customize special kinds of products for customers after evaluating and analyzing their needs.

BI-METAL BAND SAW BLADES

TOOTH TYPES

Standard Tooth (ZC)

SH Tooth (SH)

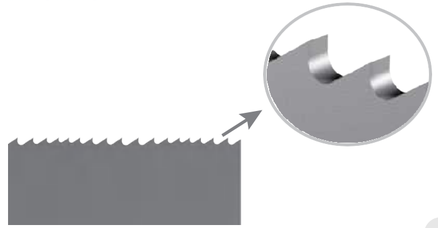
Rounded Back Tooth (GB)

Hook Tooth (G)

Impact Resistant Tooth (KL)

Standard Tooth (ZC)

FEATURES



Features

Standard tooth with 0° or relatively small positive rake angle, efficient cutting, smooth finish, less noise.

Applications

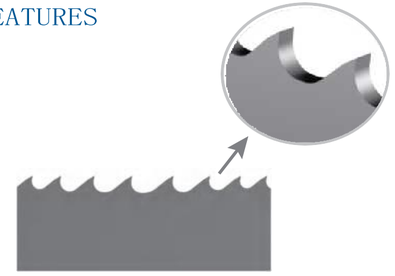
Widely used in non-ferrous metals, carbon steel, stainless steel, structural steel, alloy steel, bearing steel, mold steel.

Specifications	TPI												
Width x Thickness (mm)	14	8	6	4	14/18	10/14	8/12	6/10	5/8	4/6	3/4	2/3	1.0/1.5
13x0.65					●	●	●	●					
16x0.9							●	●	●	●	●		
19x0.9	●			●				●	●	●	●		
27x0.9				●					●	●	●	●	
34x1.1				●					●	●	●	●	
41x1.3										●	●	●	
54x1.6												●	●
67x1.6												●	●
80x1.6													●

● Represents regular stock. Other specs on request.

SH Tooth (SH)

FEATURES



Specifications	TPI								
Width x Thickness (mm)	8/11	12/16	5/7	3/4	2/3	1.4/2.0	1.0/1.5	0.85/1.3	0.75/1.0
27x0.9	●	●	●	●	●				
34x1.1	●		●	●	●				
41x1.3					●	●	●		
54x1.6					●	●	●	●	
67x1.6					●	●	●	●	●
80x1.6							●	●	●

● Represents regular stock. Other specs on request.

Features

Consisting of two clearance angles. Relatively smaller tooth chip space than the rounded back tooth. Smooth cutting, less noise, and high wear resistance.

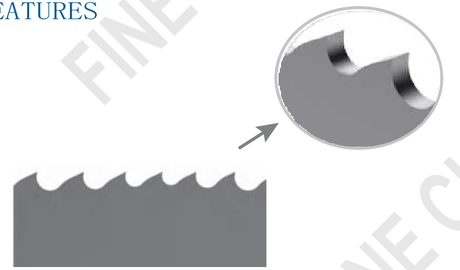
Applications

Widely used in medium to large pitch band saw blades, particularly suitable for cutting difficult-to-cut materials and materials with big cross-sections.

Scenario

Rounded Back Tooth (GB)

FEATURES



Specifications	TPI		
Width x Thickness (mm)	4/6	3/4	2/3
27x0.9			
34x1.1			
41x1.3	●	●	●

● Represents regular stock. Other specs on request.

Features

Rounded back tooth is similar to the SH tooth (double clearance angles). Ultimate all-round back flank of the tooth tips, wider gullets, and larger chip space.

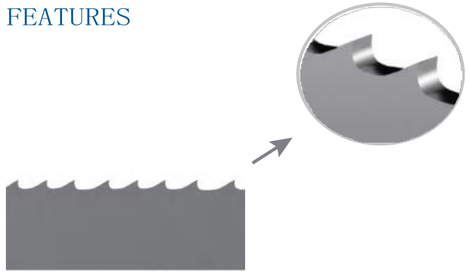
Applications

Suitable for medium pitch band saw blades, high shock resistance, good performance on cutting high-hardness metal materials.

Scenario

Hook Tooth (G)

FEATURES



Specifications	TPI
Width x Thickness (mm)	1.2/1.6
41x1.3	●
54x1.6	●
67x1.6	●
80x1.6	●

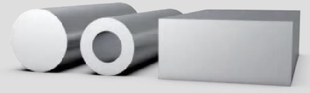
● Represents regular stock. Other specs on request.

Features

Wide gullet design, high body and tooth rigidity, good chip removal capacity.

Applications

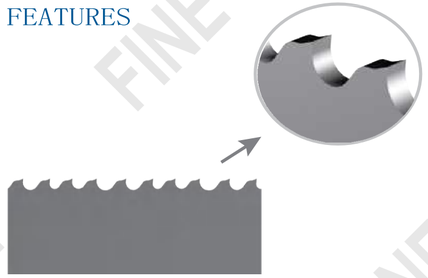
Widely used in cutting large cross-section work pieces and requiring smooth cutting surface.



Scenario

Impact Resistant Tooth (KL)

FEATURES



Specifications	TPI		
Width x Thickness (mm)	4/6	3/4	2/3
27x0.9	●	●	●
34x1.1	●	●	●
41x1.3	●	●	●
54x1.6		●	●

● Represents regular stock. Other specs on request.

Features

Special design tooth form, strong tooth profile, high cutting precision, high wear resistance, long lifetime.

Applications

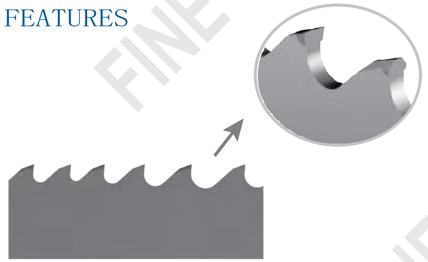
Used for better withstanding impact caused during cutting, such as thin-walled tubes, structural steel, bundled small bars, and other shaped materials, etc. However, the feed rate must be greatly reduced if the wall thickness is ultra-thin.

Scenario

Bimetal Band Saw Blades For Wood

SPECIAL FOR WOOD

FEATURES



Specifications	TPI			
Width x Thickness (mm)	2T	1.6	1.3T	2/3
27x0.9	●			●
34x0.9		●	●	
41x0.9	●	●	●	
50x0.9	●	●	●	

● Represents regular stock. Other specs on request.

CNC Grinding Technology

High-precision CNC grinding technology makes the tooth tips smooth, wear-resistant and long-lasting.

High-Quality Spring Steel

Adopting high-quality spring steel as the backing material and processing with advanced heat treatment equipment and technology. The product has excellent fatigue strength and rigidity.

Advanced Welding Technology

Advanced welding equipment and processing technology, high welding strength, and better user experience in different application scenarios.

Applications

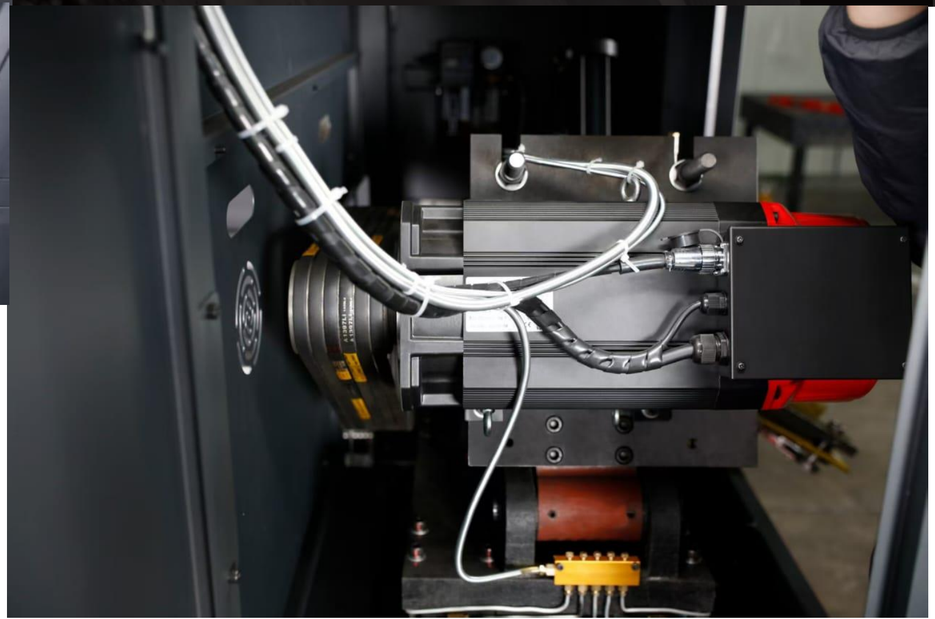
Mahogany, oak, cement brick, PET foaming materials, polyurethane, etc

High Speed Metal Circular Saw Machine FC-80NC

FC-80NC Product Parameters

Parameter	Specification
Maximum Cutting Range	O 10-80mm, □ 10-55mm
Single Feeding Length	5-800mm
Screw Feeding Accuracy	±0.03mm
Cutting Accuracy	±0.05mm
End Face Perpendicularity	±0.2/100mm
Saw Blade Specifications	300*32*1.75
Saw Blade Speed	18-200rpm (Variable frequency drive)
Hydraulic Pressure	7 mpa
Compressed Air	4-6 bar

High Speed Metal Circular Saw Machine FC-80NC



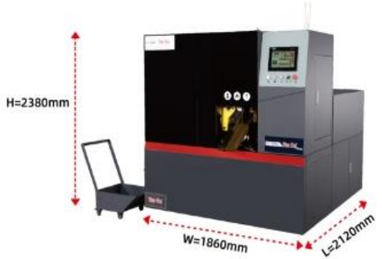
Features

1. The folding hinged mobile door is anti-swinging, and it is smooth and not stuck for long-term use.
2. Fully surrounded metal protective tracks, dust-proof and oil-proof, prolonging the life of the line pipe.
3. The slight inclination angle feeding method is adopted to reduce the cutting resistance and protect the saw blade.
4. Independent external hydraulic transmission system, with air cooling, to prevent the oil temperature from being too high to affect the sawing.
5. With two oil mist cooling tanks, different cooling oils are added for the material.
6. The spindle adopts a high-power servo motor, and the high load speed is more stable.

High Speed Metal Circular Saw Machine FC-80NC

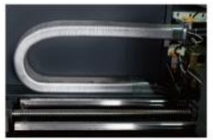
FC-80NC Additional Parameters

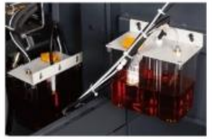
Parameter	Specification
Chip Removal Method	Automatic spiral chip conveyor
Workbench Height	960mm
Saw Drive	1kw
Feed Drive	1kw
Main Motor	7.5kw
Hydraulic Motor Power	2.2kw
Hydraulic Tank Capacity	70L
Machine Dimensions (L*W*H)	1860*2120*2380mm
Net Weight (Base + Rack)	≈2300KG

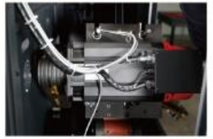


FC-80NC	Product parameters
MAXIMUM CUTTING RANGE	○10-80mm,□10-55mm
SINGLE FEEDING LENGTH	5-800mm
SCREW FEEDING ACCURACY	±0.03mm
CUTTING ACCURACY	±0.05mm
END FACE PERPENDICULARITY	≤0.2/100mm
SAW BLADE SPECIFICATIONS	300*32*1.75
SAW BLADE SPEED	18-200rpm/variable frequency infinite
HYDRAULIC SYSTEM PRESSURE	7mpa
COMPRESSED AIR	4-6bar

FC-80NC	Product parameters
CHIP REMOVAL METHOD	Automatic spiral chip conveyor
WORKBENCH HEIGHT	960mm
SAW DRIVE	1kw
FEED DRIVE	1kw
MAIN MOTOR POWER	7.5kw
HYDRAULIC MOTOR POWER	2.2kw
HYDRAULIC TANK CAPACITY	70L
MACHINE DIMENSIONS	1860*2120*2380mm
NET WEIGHT (BASE & RACK)	≈2300KG







Carbide Tipped / CrAlN Coated Circular Saw

Carbide Tipped / CrAlN Coated Circular Saw

Specifications of Carbide-Tipped Circular Saw Blades

Specification	Details
Blade Diameter	Common sizes: 250mm to 420mm
Blade Thickness	Typically 1.75mm to 2.7mm
Arbor Hole Diameter	Standard: 32mm, 40mm, 50mm
Number of Teeth	Ranges from 60 to 120 (depends on application and blade size)
Tooth Type	Alternate Top Bevel (ATB), Triple Chip Grind (TCG), Flat Top Grind (FTG), etc.
Material	Body: High carbon steel or alloy steel Tips: Tungsten carbide
Cutting Application	Non-ferrous metals (aluminum, copper), plastics, steel (with specific grade)
Tooth Pitch	Fine (for smooth cut) to Coarse (for faster cut)
Hook Angle	Positive for aggressive cutting; Negative for smoother, controlled cuts
Kerf Width	Typically 2.0mm to 3.0mm depending on material and application
Max RPM	Varies by blade size – example: 6,000–8,500 RPM for 7"–12" blades

Fine Cut® DURABLE & SPEEDY — *Circular saw blades*

COMMON STEEL SOLID CUTTING COLD SAW

D	B/b	d	Z
250	2.0/1.7	32/40	54/60/72/80
285	2.0/1.7	32/40	60/72/80
285	2.0/1.75	32/40	60/72/80
315	2.25/2.0	32/40/50	60/72/80
360	2.6/2.25	40/50	60/80/100
425	2.7/2.25	50	40/60/80/100
460	2.7/2.25	50	40/60/80/100
520	3.5/3.0	50	60/80
560	3.5/3.0	80	60/80
630	3.6/3.0	80	60/80

Ⓐ **Application:** For cutting mild and low carbon steel bar

Ⓑ **Applicable equipment:** Metal cold cutting saw machine
V=100~140m/min
Sz=0.05~0.1mm

Ⓒ **Cutting fluid:** Special use cooling and lubricating fluid

Ⓓ **Tooth tips material:** Cermet

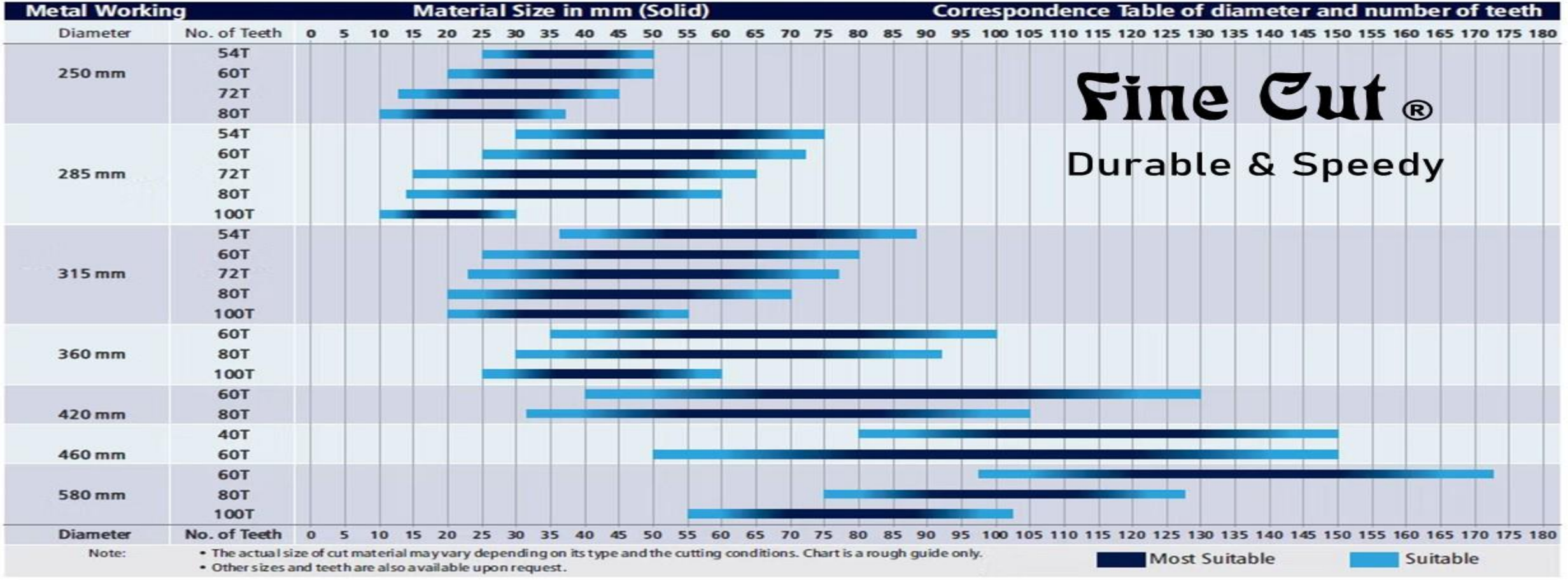
We use high grade CERMET tip.All of the tips are imported.Within the special grinding machine (Enokida's abd Vollmer), Fine Cut cold saw blade will become your best friend in metal cutting.

Body use SKS steel (imported from Japan and Germany).The high quality steel make sure the body has powerful strength. The cutting wok will be more easier and stable if you're using Fine Cut saw blade.

Cold saw blade is different from the normal sawblade.Because it has special shape's tip, and tip is using CERMET. Not all the manufacturer can make this special shape but Fine Cut can do this. It's very hard to grind this shape because it's need Technology and Special grind machine.

Fine Cut unique anti-shock slots with colophony inside can reduce the vibration and noise.

SELECTING THE CORRECT TEETH & MATERIAL SIZE



TECHNICAL INFORMATION FOR TA COLD SAWS

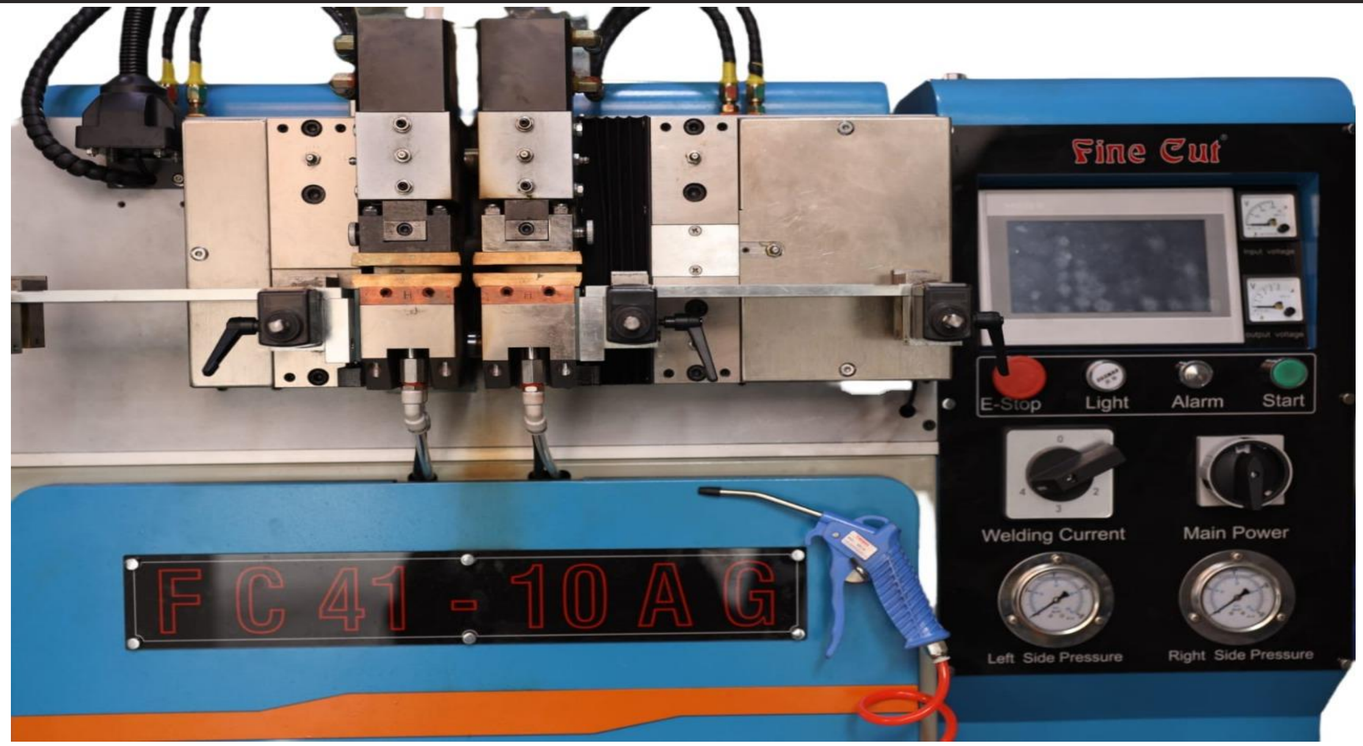
No.	Dia.	X	Kerf	X	Plate	X	Bore	X	No. of teeth	Pin Holes
1	250	X	2	X	1.7	X	32	X	54/60/72/80	4-9-50 PCD, 4-11-63 PCD
2	285	X	2	X	1.7	X	32	X	54/60/72/80/100	4-9-50 PCD, 4-11-63 PCD
3	315	X	2	X	1.7	X	40	X	54/60/72/80/100	4-9-50 PCD, 4-11-63 PCD
4	360	X	2.6	X	2.25/2.3	X	40/50	X	60/80/100	4-11-90 PCD, 4-15-80 PCD
5	420	X	2.6	X	2.25	X	50	X	60/80	4-15-80 PCD
6	460	X	2.7	X	2.25	X	40/50	X	40/60	4-11-90 PCD, 4-14-90 PCD 4-15-80 PCD
7	580	X	3.2	X	2.6/2.7	X	50/80	X	60/80/100	4-22-120 PCD

TA Cold Saws Available in above Dimensions and Specifications | other dimensions available.

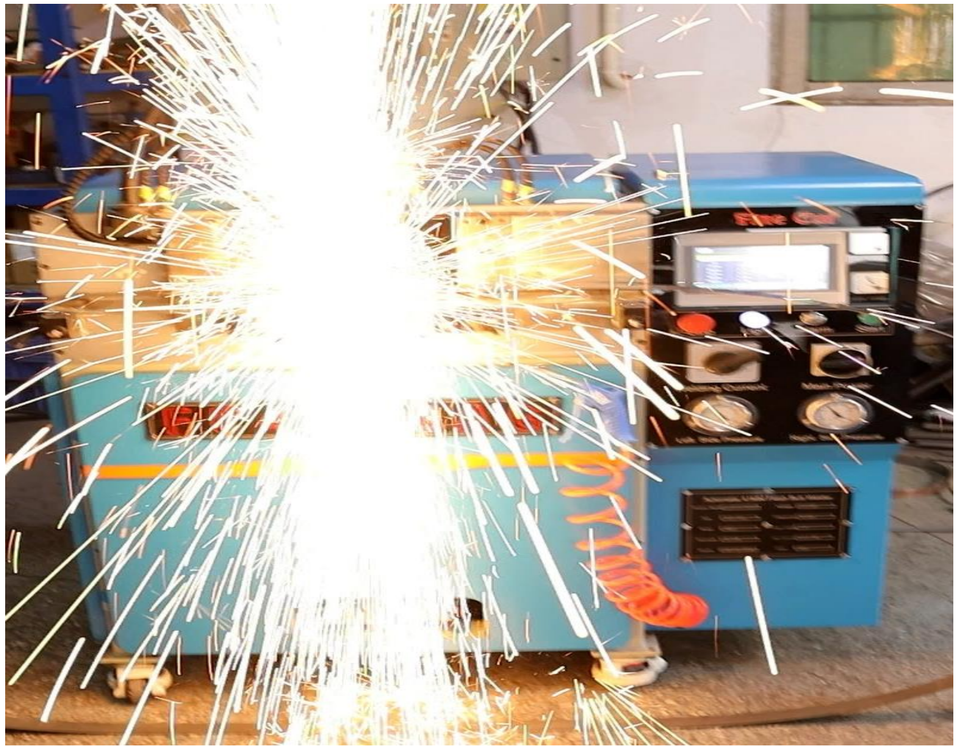
Flash Butt Bimetal Blade Welding Machine

Main Technical Data of 20 KVA Flash Welding Machine

Product Model- **FC41-10AG**
Rated Supply Voltage- Three Phase 415 V
Rated frequency- **50 HZ**
Frontal fixed power- **20 KVA**
Fixed load continuity rate- 30%
Insulation Class – A
Touch Panel- **MCGS**
Distance Control Setting- **Through Wifi**
Secondary maximum short circuit current – 8000A
Secondary no-load voltage - 5.8 V
Maximum welding power- 20 KVA
Maximum electrode pressure - 20000 N
Maximum upset force- 11000N
Air supply pressure- 0.5 MPA
Cold water flow- 5-7 L / min
Flash speed control mode and speed- 0-50 HZ
Welding machine weight – 450 Kg
Maximum welding width - **41 mm**
Dimension (width*depth*height) - 1100*900*1500 mm



Flash Butt Bimetal Blade Welding Machine



PRODUCT FAMILY

Circular Saw Blades

Applications: the products are widely used in die-cutting materials of footwear, toys, bags, stationery and sporting goods, automotive interior trim, PU, clothes, paper, etc.

Fine Cut Circular Saw Blade Carbide Tipped & CrAlN Coated

SAWING TOOLS

Applications: the products are widely used in the sawing of alloy steel, structural steel, mold steel, and other metal materials in the fields of military industry, heavy industry, machinery, metallurgy, construction and building

Bi-Metal Band Saw Blades, Carbide Tipped Band Saw Blades, Wood Cutting Band Saw Blades

Applications

INTELLIGENT EQUIPMENT

Application areas: the products are widely used in the rapid cutting of metals such as mold steel and round steel, as well as metal cutting in machinery manufacturing, metallurgy, automobile, bridge, shipbuilding, and other industries.

High Speed Circular Saw Machine

WELDING MACHINE

Applications: the products are widely used in high-end CNC machine tools and equipment, complete sets of flexible production lines, mechanization, automation, and other modern intelligent industrial equipment manufacturing.

Bimetal Band Saw Blades Welding Machine