



Official Website

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BAND SAW BLADES

CARBIDE TIPPED BAND SAW BLADES

BI-METAL BAND SAW BLADES

WOOD CUTTING BAND SAW BLADES

SINCE 1995

HENGERDA NEW MATERIALS (FUJIAN) CO., LTD.

HENGERDA

A National High-Tech Enterprise Focusing on the New Metal Materials

CONTENTS

01 ~ 04

ABOUT HENGERDA

Corporate Profile
Global Sales Network

05 ~ 08

TECHNICAL INFORMATION

Dimensions
Terminology & Specifications
Tooth Pitch Selections

09 ~ 14

CARBIDE TIPPED BAND SAW BLADES

FL Type
FML Type
ML Type

15 ~ 24

BI-METAL BAND SAW BLADES

Hook Tooth (G) Standard Tooth (ZC)
Impact Resistant Tooth (KL) SH Tooth (SH)
Rounded Back Tooth (GB)

25 ~ 26

WOOD CUTTING BAND SAW BLADES

27 ~ 28

PRODUCT FAMILY

CORPORATE PROFILE

1995

Since

- **National** High-Tech Enterprise
- Publicly Listed on the ChiNext of the Shenzhen Stock Exchange in **2021**
- **260+** Global Sales Networks
- Obtaining **100+** National Authorized Patents
- Lead in Drafting and Formulating Industry Standards for Die-Cutting Tools



Hengerda Industrial Park(for Intelligent Equipment and New Materials)

ABOUT US

Hengerda New Materials (Fujian) Co., Ltd. was founded in 1995. On February 8, 2021, Hengerda was listed on the ChiNext of the Shenzhen Stock Exchange. 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, die-cutting tools, sawing tools, intelligent equipment, functional components, and other series of products. Hengerda 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.

Hengerda took the lead in drafting and formulating the first industry standard for die-cutting tools. Its product technology and performances have reached the leading level internationally through the appraisal of scientific and technological achievements by the China National Light Industry Council. Since 2011, the market share of rule die steel, one of the company’s major products, has ranked first in the world for consecutive years. At the same time, the company is a leading domestic manufacturer of bi-metal band saw blades.

Hengerda was awarded the National Intellectual Property Advantage Enterprise in 2022. It has established Academician Expert Workstation and Provincial Enterprise Technology Center. The company has been working with the Chinese Academy of Engineering academicians for long-term cooperative research projects involving multiple disciplines and subjects. It obtained more than 90 national authorized patents. With a R&D team of nearly 100 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.

Hengerda’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.

GLOBAL SALES NETWORK

Hengerda has established global supply chain partnerships based on local and expanding globally, with the overseas layout in Europe, the Americas, the Middle East, Africa, and other countries and regions in the Belt and Road.

Asia

South Korea, Bangladesh, India, Thailand, Cambodia, Vietnam, Malaysia, Qatar, Indonesia, Pakistan, Iran, the UAE, Syria, Turkey, Azerbaijan, Uzbekistan,Sri Lanka,Saudi Arabia,Iraq, Singapore,Kazakhstan,Yemen,Japan

Europe

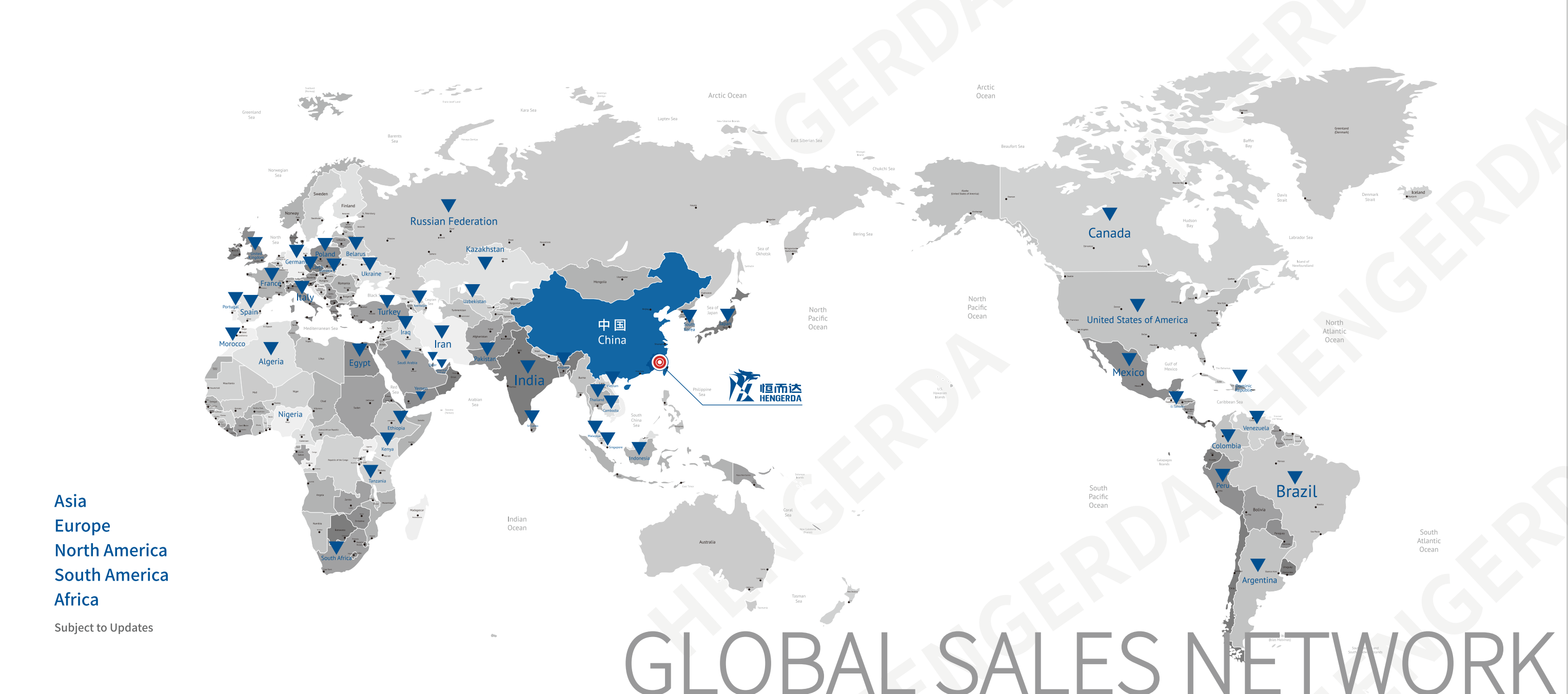
Russia, Belarus, the UK, Italy, Spain, France, Poland, Ukraine, Germany, Slovak, Czech, Portugal

North America & South America

Canada, the USA, Mexico, El Salvador, Dominica, Colombia, Venezuela, Brazil, Argentina,Peru

Africa

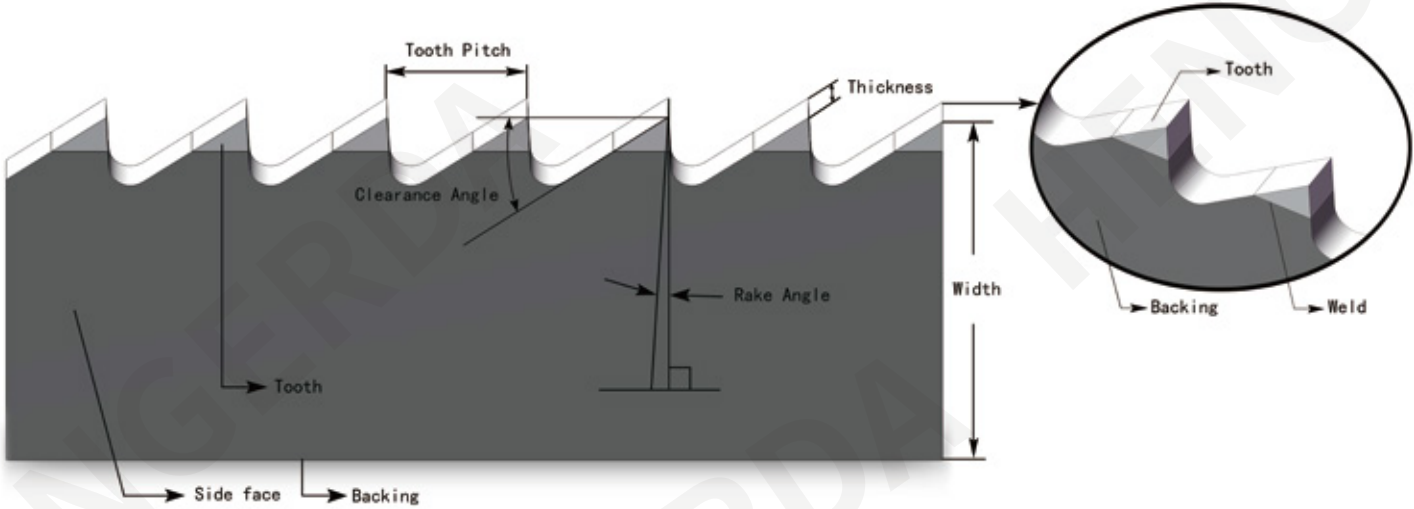
South Africa, Egypt, Morocco, Algeria, Nigeria,Kenya, Ethiopia, Tanzania



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.



 Efficient 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	3/4	3/4	3/4	3/4
15			6/10	4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4	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

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

HAI SHARK



PRODUCT INTRODUCTION



With ultra-fine carbide grains as tooth materials and quality spring steel as backing materials, Hengerda's products are manufactured and processed with high-precision CNC cutting technology and other core technologies such as precision welding, fine grinding process, and patented heat treatment technology, all of which effectively improve their cutting performances and efficiencies. Accordingly, our products stand out in many aspects, including high-strength backing materials and highly wear-resistant tooth tips with high hardness.

Carbide tipped band saw blades: FL, FML, ML, and woodworking types; different tooth types are made from different materials and geometry designs.

Applications: difficult-to-cut materials such as high-temperature alloy, nickel-based alloy, case-hardened steel, stainless steel, non-ferrous metals, aluminum plate, and other materials including titanium alloy, tool & mold steel, heat-resistant stainless steel, copper alloy, aluminum alloy, and wood, etc.

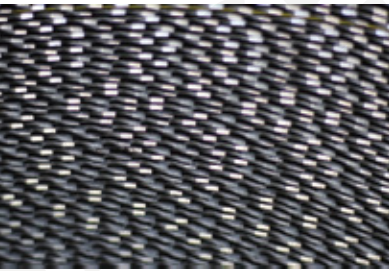


CARBIDE TIPPED BAND SAW BLADES

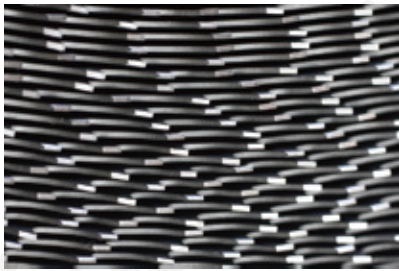
TOOTH TYPES



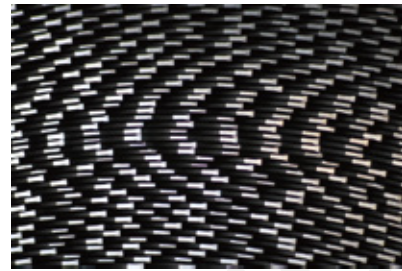
FL Type



FML Type

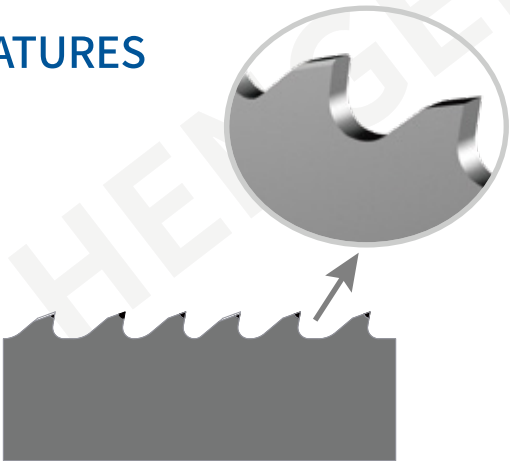


ML Type



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.



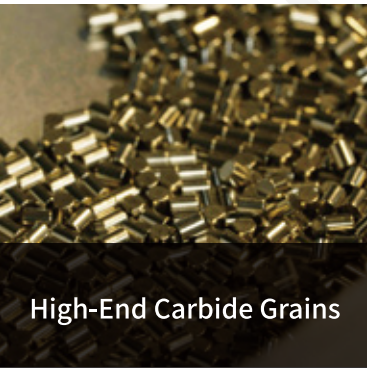
Special Tooth Design

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



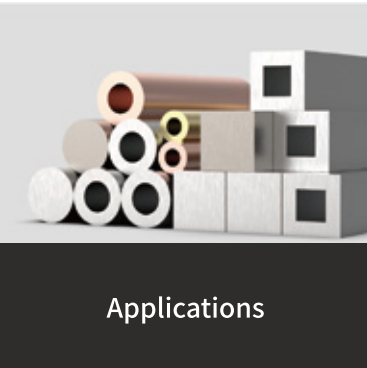
High-Quality Spring Steel

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.

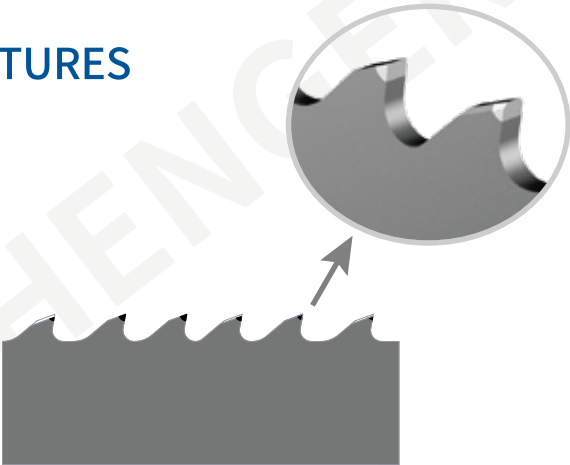


Applications

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

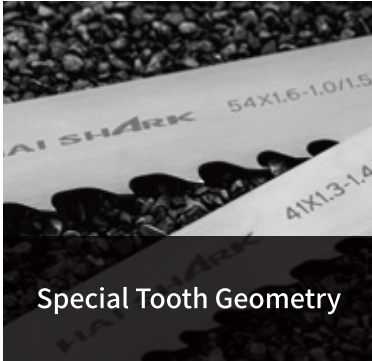
FML Type

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.



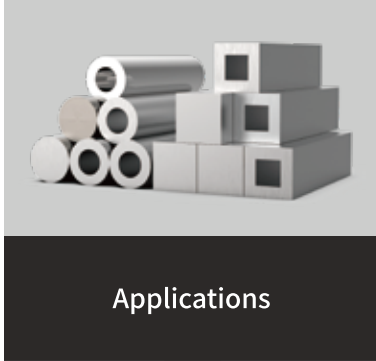
Superior Quality Spring Steel

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.

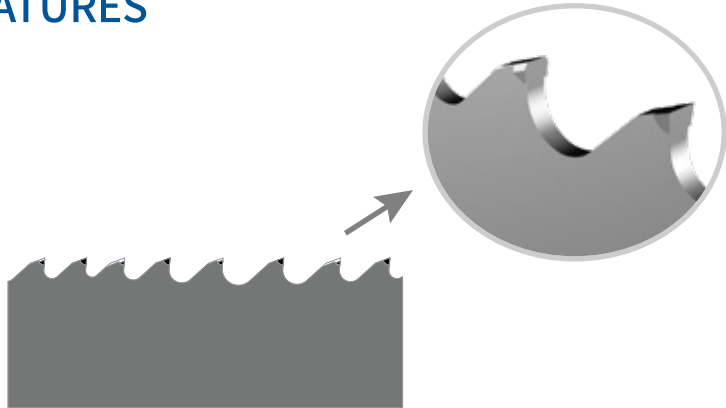


Applications

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.



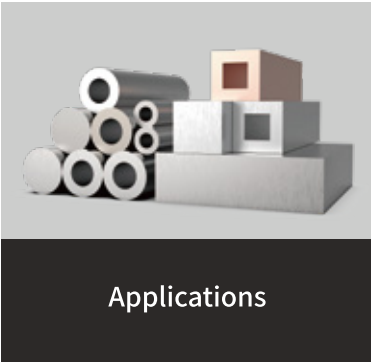
Special Tooth Design

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 alloy, etc.



Scenario

BI-METAL BAND SAW BLADES

super RJ 锐锯

RJ 锐锯

LINGYING

DAJU 达锯

PRODUCT INTRODUCTION



Superior Raw Materials: backing materials (e.g.: X32, RM80) and tooth materials (e.g.: M42, 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.



SELF-OWNED BRANDS

Brands	Applications
<i>super</i> R 锐锯	high-temperature alloy, titanium alloy, high-hardness steel, case-hardened steel, tool & mold steel, etc.
R 锐锯	alloy steel, tool & mold steel, bearing steel, stainless steel, etc.
LINGYING	bearing steel, alloy tool steel, hardened & tempered steel, tool & mold steel (P20, 718, GSW-2738, etc.), high-speed steel, 38CrMoAl, stainless steel, non-ferrous metals such as aluminum and copper, etc.
DAJU 达锯	carbon steel, low-alloy steel, general casting, non-ferrous metals such as aluminum and copper, wood, etc.



BI-METAL BAND SAW BLADES

TOOTH TYPES



Standard Tooth (ZC)



SH Tooth (SH)



Rounded Back Tooth (GB)



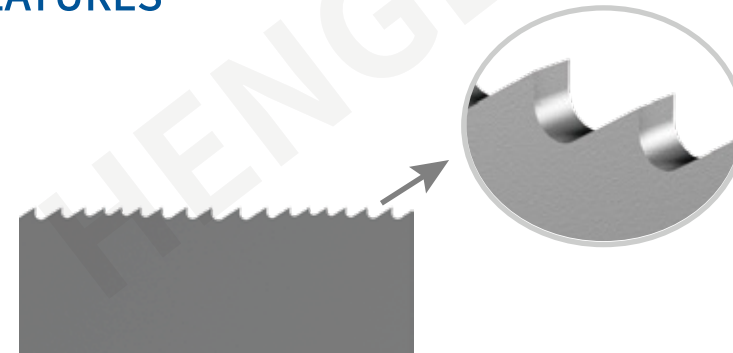
Hook Tooth (G)



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

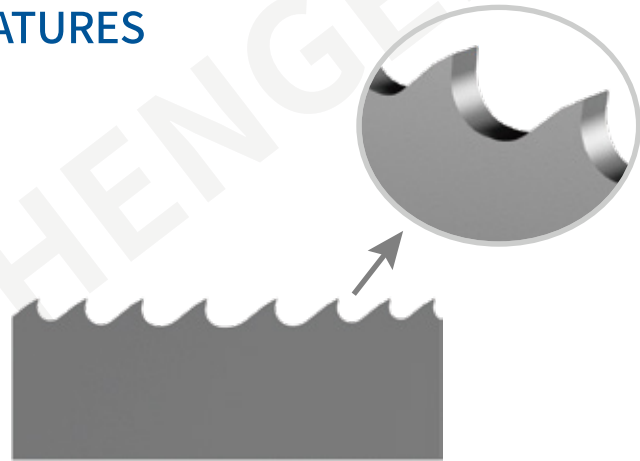
Widely used in non-ferrous metals, carbon steel, stainless steel, structural steel, alloy steel, bearing steel, mold steel.

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

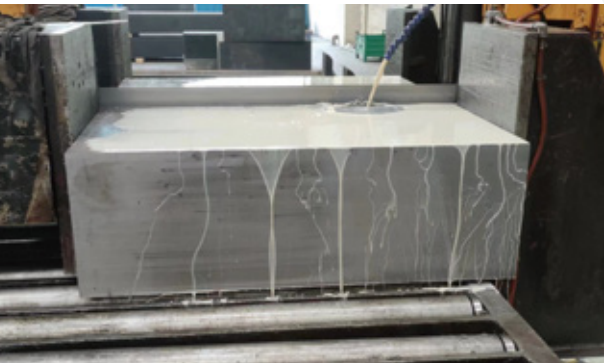
Consisting of two clearance angles. Relatively smaller tooth chip space than the rounded back tooth. Smooth cutting, less noise, and high wear resistance.

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.

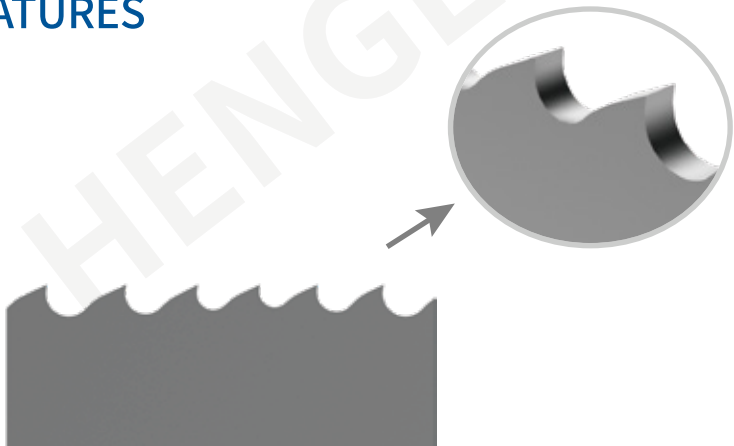


Scenario



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.

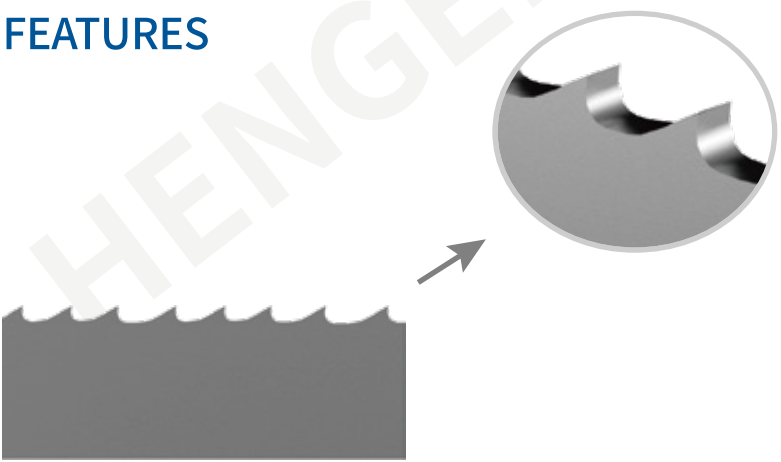


Scenario



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

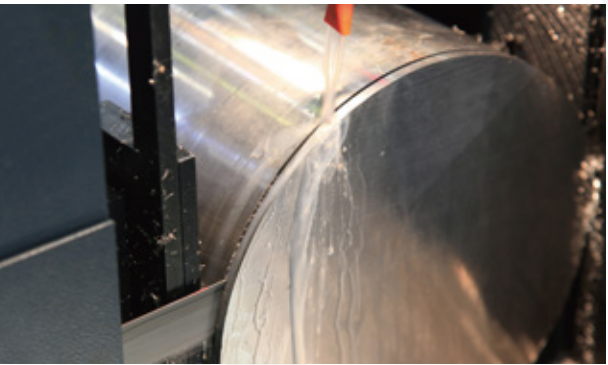
Wide gullet design, high body and tooth rigidity, good chip removal capacity.

Applications

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

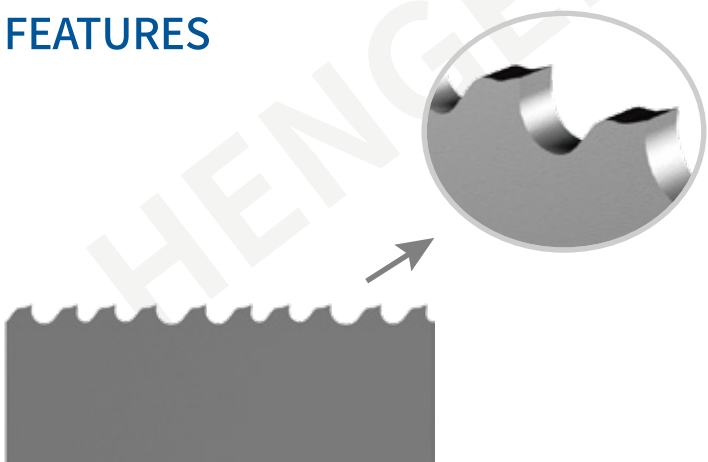


Scenario



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		●	●

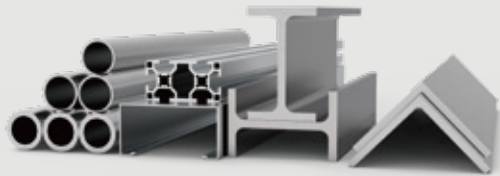
● Represents regular stock. Other specs on request.

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.



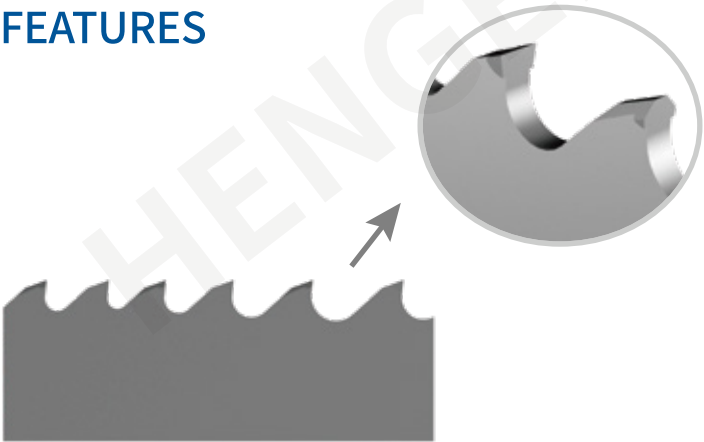
Scenario



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.



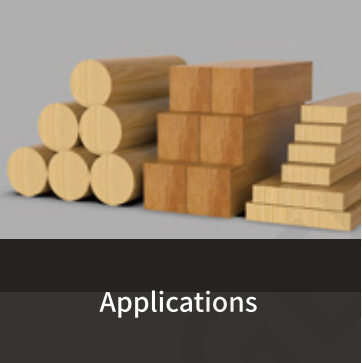
High-Quality Spring Steel

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

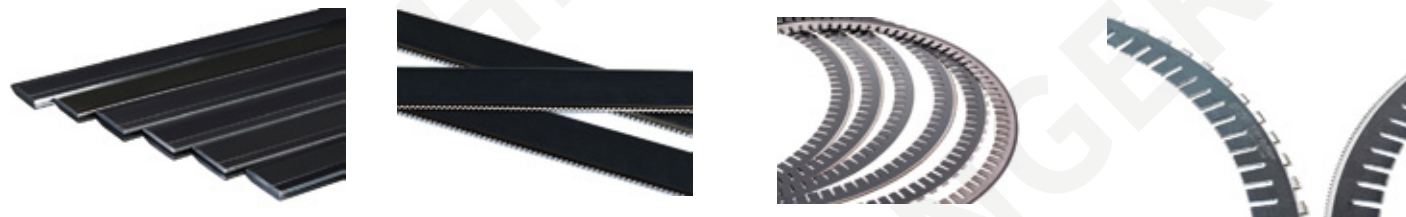
Mahogany, oak, cement brick, PET foaming materials, polyurethane, etc.

PRODUCT FAMILY

DIE-CUTTING TOOLS

Rule Die Steel, Steel Rules, Rotary Die-Cutting/Creasing Rules

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.



INTELLIGENT EQUIPMENT

CNC Circular Saw Machines, CNC High-Speed Bandsaw Machines, CNC Five-Axis Machine, Machining Centers

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.



SAWING TOOLS

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

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



MACHINE ELEMENT

Linear Guideways

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.



Applications

