



# ***PREMIUM TOOLS - KWS***

## **Cold Saw Series**



**ZERO RUNOUT, PRECISION CUT**

EXPORTED TO 128 COUNTRIES

KWS-A LEADING BRAND OF  
FULL-SERIES INDUSTRIAL CUTTING TOOLS

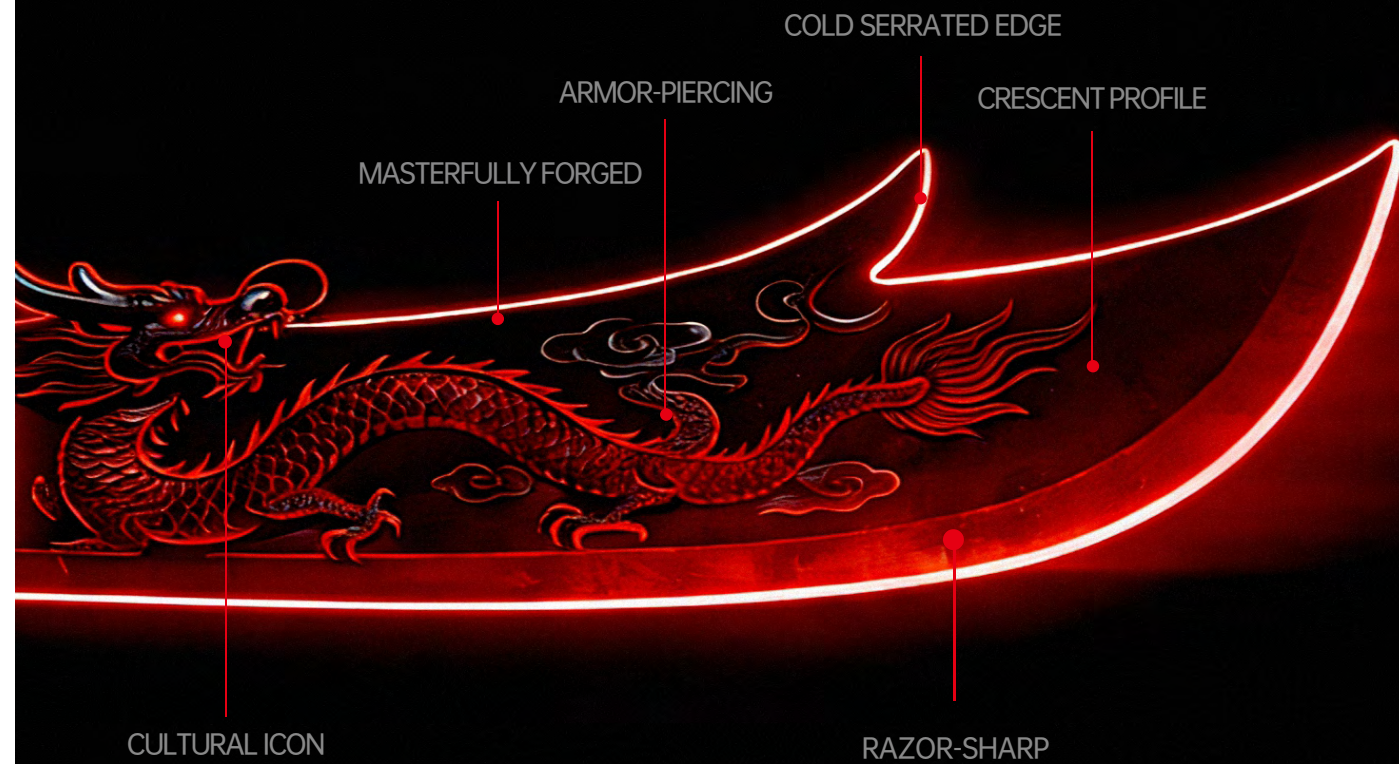
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[www.ybkws.com](http://www.ybkws.com)

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Exported to 128 countries



**Pillar I**  
Quality Advantage



**Pillar II**  
R&D Advantage



**Pillar III**  
Craftsmanship Advantage



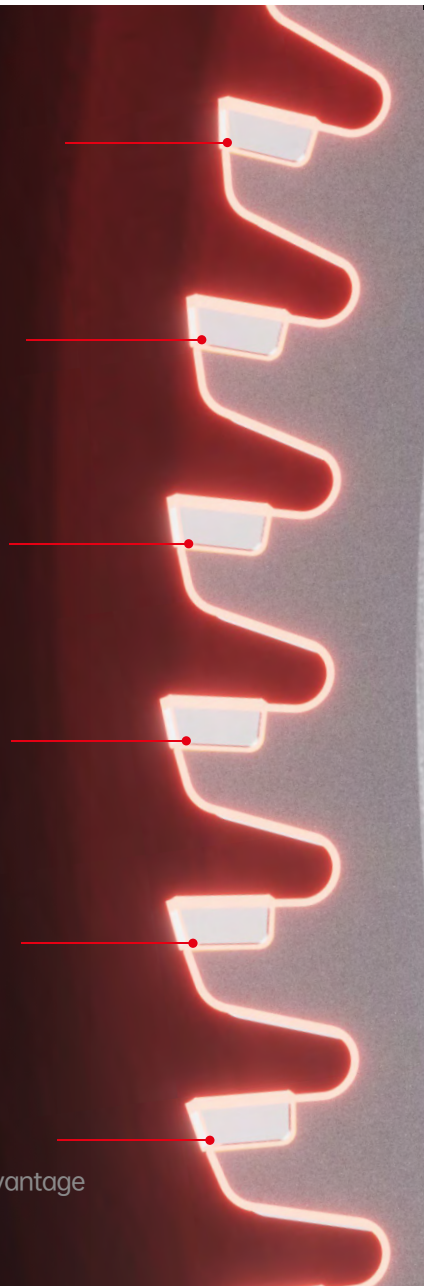
**Pillar IV**  
Raw Material Advantage



**Pillar V**  
Equipment Advantage



**Pillar VI**  
Production Management Advantage



The Green Dragon Crescent Blade is a type of crescent knife. According to historical records and unearthed cultural relics, this weapon first appeared during the Song Dynasty.

In the Ming Dynasty novel ***Romance of the Three Kingdoms***, the Green Dragon Crescent Blade was the weapon used by Guan Yu. The book describes the Green Dragon Crescent Blade as weighing 41kg, also known as the "Cold Serene Blade".

Guan Yu used it to slay many military generals, and thus later generations also call the Green Dragon Crescent Blade the "Guan Dao".

Therefore, Guan Yu and the Green Dragon Crescent Blade are regarded as symbols of each other.

24 years of dedication — one of the most large-scale full-series industrial tool manufacturers in China.

Founded in 2002, dedicated to "Driving Chinese Manufacturing with Technology".

1000+ Employees – providing professional tool services

Yibai has gathered many highly qualified, experienced, and well-rounded professionals in tool manufacturing, and has cultivated a large number of sales engineers with expertise in tool technology and applications. Over 70 R&D personnel, holding more than 90 invention and utility model patents.

1000+ domestic distributors

Products are widely used in furniture manufacturing, aluminum, metal cutting, automotive, aerospace and other fields. Over 1,000 domestic distributors.

128 international partners

Since obtaining import/export rights in 2008, the "KWS" brand has entered the international market. In 2018, exports reached 68 countries and regions. With the growing influence and recognition of the KWS brand in the global market, as of 2025 exports have exceeded 128 countries and regions.

2 major production bases  
Total area of 100,000 m²

A new high-precision CNC tool R&D center and a digital, intelligent, unmanned production base of 100,000 m² have been built in Shaqu Industrial Park, Dayi county, Chengdu city.

Production Base – Factory 1

Production Base – Factory 2

The company has introduced multiple automated production lines from abroad, with over 2,000 units of production equipment, and an annual production capacity of 10 million pieces.

PRODUCTION  
BASE





Exported to 128 countries

# GLOBAL EXHIBITIONS & cooperation

From world-renowned exhibitions to the workshops of multinational corporations, our stable quality and efficient service have earned high praise from international customers.

“Reliable Cutting Tool Supplier From China”

This is the genuine recognition given to us by international customers, and it is also the promise we have always fulfilled.

## Asia



## Europe



## America



## Africa



KWS has won extensive recognition through outstanding quality and consistent delivery.

Global Exhibitions & Partnerships

A selection of our global presence.



# CORPORATE CULTURE

Exported to 128 countries 

-  Vision: To Be a World-Class Cutting Tool Brand
-  Mission: Empowering Chinese Manufacturing Through Technology
-  Spirit: Innovation, Pragmatism, Perseverance, Openness, and Pursuit of Excellence
-  Positioning: A Global Brand with Nationwide Presence, Attention to Detail, and Quality First
-  Quality Policy: Upholding Our Commitments with Dedication; Forging the Future Through Quality

*To Be a World-Class Cutting Tool Brand*



# HONORS & CERTIFICATIONS

National Key Specialized and Sophisticated "Little Giant" Enterprise  
Over 90 invention and utility model patents  
2 internationally advanced scientific and technological achievements  
Products exported to 128 countries worldwide  
National Sci-Tech SME  
Sichuan Provincial Enterprise Technology Center  
National High-Tech Enterprise  
Intellectual Property Advantage Enterprise  
Sichuan Provincial Patent Award-Innovation and Entrepreneurship Award  
Sichuan Provincial Gazelle Enterprise



# PRECISION CUTTERS WITH SIX CORE ADVANTAGES

KWS Products

01

**Quality Advantage:** Six pillars of quality system, imported high-precision inspection equipment, attention to detail, quality first (full-process quality management system)



04

**Raw Materials Advantage:** Guided by the 2+N academician model and driven by deep industry-university-research integration, our materials R&D center ensures stable material performance and long-term product quality consistency.



02

**R&D Advantage:** 30% of annual profit invested in R&D; recognized as Provincial Enterprise Technology Center, Academician (Expert) Workstation, industry-university-research base with Sichuan University and other colleges; over 90 patents



05

**Equipment Advantage:** Over 2,000 precision CNC equipment units, self-developed equipment monitoring and management system to efficiently detect equipment anomalies, improving production capacity and product quality



03

**Craftsmanship Advantage:** 36 processes from blade body to tip, patent-protected, ensuring product stability



06

**Management Advantage:** 1+N management system & 1-center PDCA closed-loop driving N supporting tools and methods & six pillars of quality system & high-precision inspection equipment safeguarding quality



# EXQUISITE CRAFTSMANSHIP

36 processes from blade body to tip, patent-protected, ensuring product stability.  
4 core patents and 5 core processes for saw blades.

## 4 Core Patents

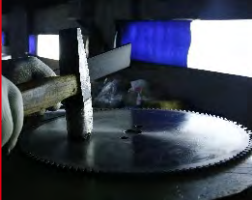
Rare Earth Alloy Steel Plate

The exclusively developed YB09 steel plate contains five rare earth elements, delivering a 3X improvement in fatigue resistance for enhanced durability.



Steel Plate Flattening (Straightening)

Experienced craftsmen perform manual flattening to ensure the steel plate achieves a true flat state without springback.



Ultra-High Pressure Heat Treatment

A patented technology featuring 72 hours of continuous heat treatment, resulting in a more uniform and denser steel plate structure while achieving natural flatness.



Balanced Grinding

Patented balanced grinding technology doubles grinding precision.



## 5 Core Processes

Big Data Invisible Stress Detection

Big data stress detection provides a precise stress value for every single blade.



Precision Grinding

Our multi-face, multi-wheel precision grinding process performs over 40 grinding passes across up to 6 faces using 6 different types of grinding wheels.



Nano Gold-Titanium Coating

Physical Vapor Deposition (PVD) technology applies a "diamond armor" coating to the product, enhancing wear resistance, anti-adhesion properties, and high-temperature performance. Compared to standard coatings, this extends the sawblade's service life by over 50%.



High-Precision Brazing Technology

Features German Umicore sandwich solder for lasting durability with zero tooth loss. Precision temperature control is maintained within  $\pm 2^{\circ}\text{C}$ . The silver-copper-silver sandwich structure ensures superior bonding strength.



High-Precision Laser Cutting Technology

Features closed-loop noise reduction design and laser finishing. Laser cutting of the saw blade body achieves diameter precision within  $\pm 0.05\text{mm}$  for superior accuracy.



# PREMIUM QUALITY

High-precision inspection equipment safeguards quality.  
We use industry-leading inspection equipment to give quality data an authoritative voice.



Coercivity Tester

Domestic top-tier brand Xianyou, used for alloy coercivity testing with an accuracy of 0.5 KA/m.



Saturation Magnetization Tester

Domestic top-tier brand Xianyou, used for alloy cobalt magnetism and magnetic saturation measurement with an accuracy of 0.2%.



Metallurgical Microscope

World-leading brand Zeiss, used for metallographic analysis of steel plates, alloys, etc., with an accuracy of 2  $\mu\text{m}$ .



Spectrometer

Japan's top-tier brand Olympus, used for composition analysis of steel plates and steel bars with an accuracy of 0.1%.



Roughness Tester

Asia's first-class brand Mitutoyo, used for surface roughness inspection of saw blade substrates with an accuracy of 0.001 mm.



One-Click Measurement System

Japan's top-tier brand Keyence, used for angle inspection of carbide-tipped router cutters with an accuracy of 0.5 $^{\circ}$ .



Dynamic Balancing Tester

World-class top-tier German brand Zoller, used for balance inspection with an accuracy of 0.4 gmm.

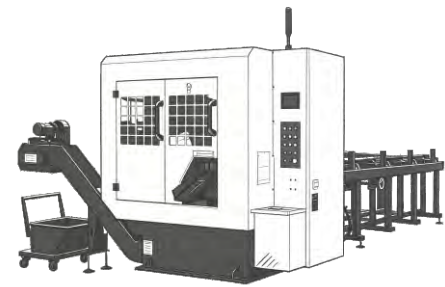


Full-Size Inspection System

World-class top-tier German brand Zoller, used for multi-parameter inspection with an accuracy of 2  $\mu\text{m}$ .

Cold Saw Blade for Mild & Medium Carbon Steel

• Machines •



Cold saw (circular sawing machine)

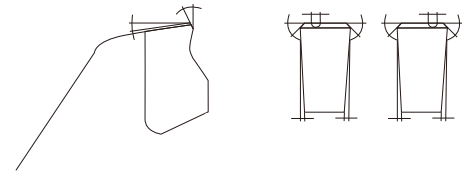
• Materials •



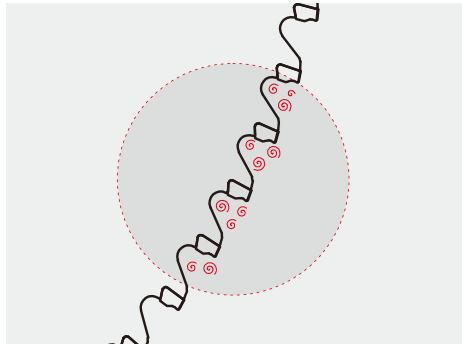
Mild/medium carbon steel   round bar   round tube   square tube   structural sections / profiles

 Product Information

|                          |                                                                                                                                                                                                                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application              | Sawing of medium and low carbon steel                                                                                                                                                                                                       |
| Machines                 | Cold saw (circular sawing machine)                                                                                                                                                                                                          |
| Recommended linear speed | V = 100–130 m/min                                                                                                                                                                                                                           |
| Feed per tooth           | Solid bar: FZ = 0.04 mm-0.09 mm<br>Tube: FZ = 0.03 mm-0.06 mm                                                                                                                                                                               |
| Materials                | Carbon steel with C ≤ 0.6%                                                                                                                                                                                                                  |
| Blade tip material       | Cermet                                                                                                                                                                                                                                      |
| Features                 | Made with specially customized cermet tips and a professionally designed geometry, this blade delivers an ideal cutting curve when cutting medium and low carbon steel, ensuring stable improvements in both tool life and cutting quality. |



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 3–5 teeth for best results.

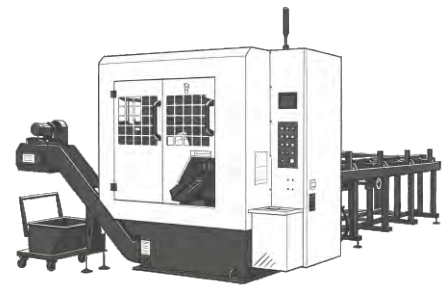
**Application Scenarios:** Suitable for cutting solid round bars, round tubes, square tubes, and profiles with carbon content ≤0.6%; hardware fittings, round steel structures, batch cutting.

**Recommended Operating Conditions:** Oil spray / minimum quantity lubrication (MQL) cold cutting; for solid bars, feed rate can be slightly increased; for hollow tubes, reduce feed rate to prevent vibration and tooth chipping (adjust according to actual material conditions).

**Usage Recommendations:** MQL cold cutting is preferred; prolonged dry cutting is not recommended. For cold saws, products with ≥100 teeth are default configured for tube materials with wall thickness below 5mm; cutting solid bars requires separate customization. For continuous batch cutting, strictly control linear speed not exceeding 130 m/min to avoid tooth burning and accelerated wear. Use as recommended during operation (mild/medium carbon steel type saw blades are not recommended for cutting high-carbon steel materials). Suitable for most materials; for materials with high alloy content, appropriately reduce the cutting amount per tooth. Feed rate (mm/s) = (Cutting amount per tooth × Number of teeth × Spindle speed) ÷ 60

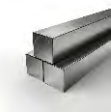
Cold Saw Blade for High Carbon Steel

• Machines •



Cold saw (circular sawing machine)

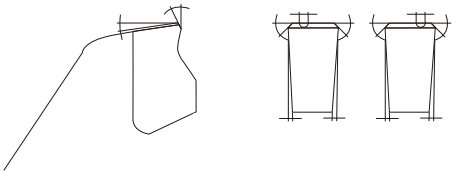
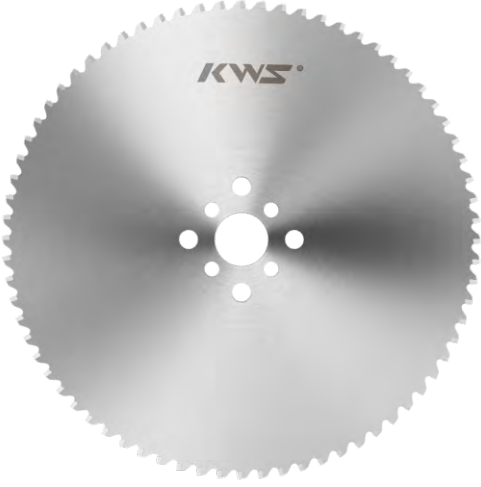
• Materials •



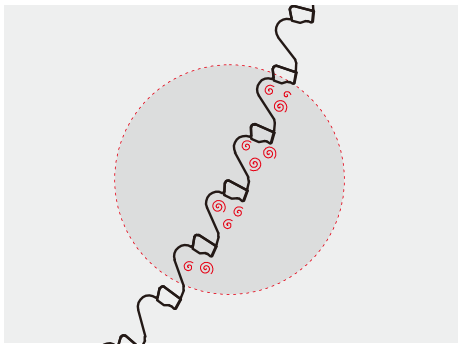
High carbon steel

 Product Information

|                          |                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application              | Cutting high carbon steel                                                                                                                                                                                                                                                       |
| Machines                 | Cold saw (circular sawing machine)                                                                                                                                                                                                                                              |
| Recommended linear speed | V=90-110m/min                                                                                                                                                                                                                                                                   |
| Feed per tooth           | Solid bar: FZ = 0.04 mm-0.07 mm<br>Tube: FZ = 0.03 mm-0.06 mm                                                                                                                                                                                                                   |
| Materials                | Carbon steel with C% > 0.6%                                                                                                                                                                                                                                                     |
| Blade tip material       | Cermet                                                                                                                                                                                                                                                                          |
| Features                 | Uses specially customized blade body with rare earth elements and customized cermet tips, professional angle design, achieving perfect running trajectory with zero runout and straight cuts when cutting high-carbon steel, optimally improving tool life and cutting quality. |



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 3–5 teeth for best results.

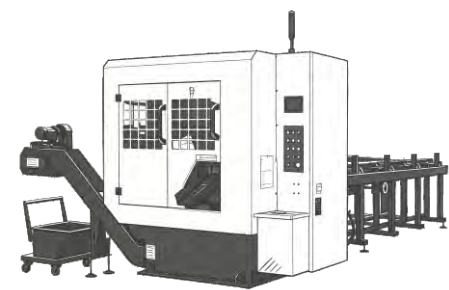
**Application Scenarios:** Suitable for high-carbon mold steel, spring steel, high-strength shafts, hard solid bars, and high-strength industrial profiles with carbon content >0.6%, for precision cutting.

**Recommended Operating Conditions:** Ideal for high-carbon steel. Operates at moderate linear speeds with stable, light feed. MQL lubrication is strictly required to prevent tooth burn and premature wear.

**Usage Recommendations:** MQL cold cutting is preferred; dry cutting is not allowed. For cold saws, products with ≥100 teeth are default configured for tube materials with wall thickness below 5mm; cutting solid bars requires separate customization. A high-rigidity machine tool + firm clamping is recommended; otherwise, even slight vibration when cutting high-carbon steel can easily cause tooth chipping and edge breakage. Use as recommended during operation (mild/medium carbon steel type saw blades are not recommended for cutting high-carbon steel materials).

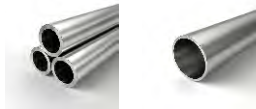
Cold Saw Blade for Cutting Pipes

• Machines •



Cold saw (circular sawing machine)

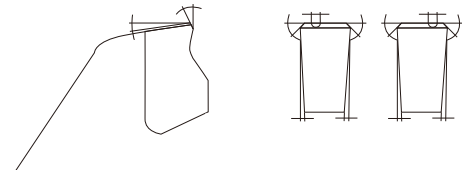
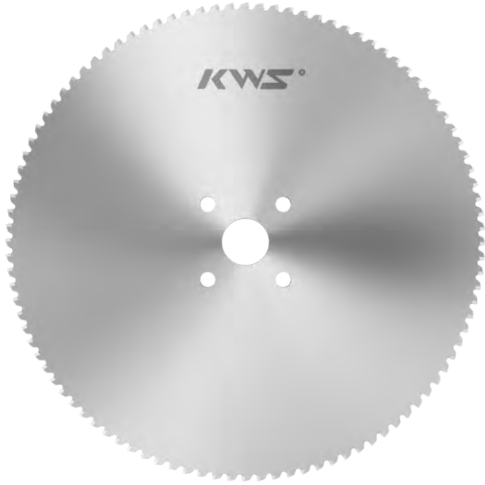
• Materials •



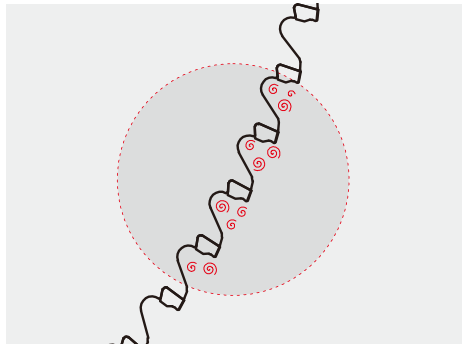
Carbon Steel Round Pipe Industrial Oil Pipeline

Product Information

|                    |                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Sawing of various hollow tubes and pipes                                                                                                                                                                                                            |
| Machines           | Cold saw (circular sawing machine)                                                                                                                                                                                                                  |
| Feed per tooth     | FZ = 0.04 mm-0.09 mm                                                                                                                                                                                                                                |
| Materials          | Various hollow tubes and pipes (excluding stainless steel)                                                                                                                                                                                          |
| Blade tip material | Cermet                                                                                                                                                                                                                                              |
| Features           | Equipped with a specially formulated anti-vibration tip material and a unique secondary cutting edge geometry, this blade minimizes resonance during tube/pipe cutting, offers strong impact resistance, and ensures consistent processing quality. |



• Tooth Geometry •



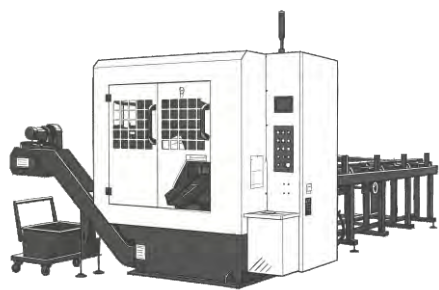
Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

**Application scenarios:** Suitable for cut-to-length cutting of rectangular tubes, round tubes, frame tubes, industrial oil pipelines, and thin-walled hollow profiles.

**Recommended operating conditions:** For thin-walled tubes, use low to medium speed and small feed rate. For thick-walled tubes, the feed rate can be appropriately increased. Workpiece clamping must be secure to minimize overhang and prevent vibration-induced tooth chipping. The machine spindle runout must be kept small — excessive runout will directly cause blade vibration and tooth chipping. It is recommended to perform a no-load test run before cutting. Round tubes are hollow structure with poor rigidity and are prone to resonance. Linear speed should not be too high; operate at low to medium speed whenever possible. If the saw blade becomes slightly dull, sharpen it promptly. Using a dull blade on tubes is the easiest way to cause vibration marks, edge chipping, and tooth chipping.

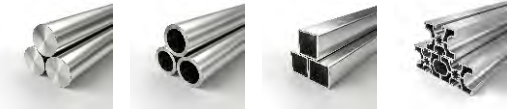
Cold Saw Blade for Stainless Steel

• Machines •



Cold saw (circular sawing machine)

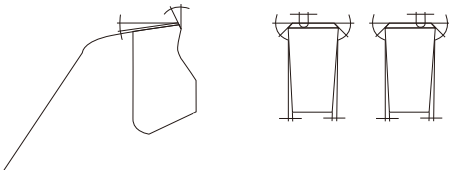
• Materials •



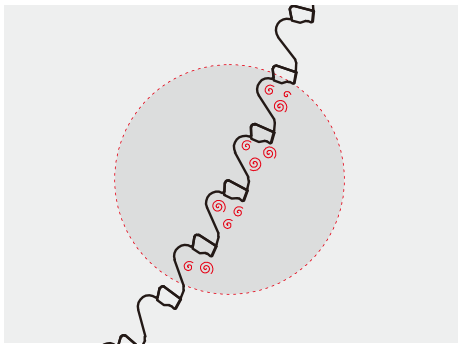
Stainless Steel Round Bar Stainless Steel Round Pipe Stainless Steel Square Tube Stainless Steel Profiles

Product Information

|                    |                                                                                                                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Sawing of various stainless steel materials                                                                                                                                                                                                  |
| Machines           | Cold saw (circular sawing machine)                                                                                                                                                                                                           |
| Feed per tooth     | FZ = 0.02 mm-0.05 mm                                                                                                                                                                                                                         |
| Material           | Stainless Steel, Stainless Iron, Nickel-Based Alloy                                                                                                                                                                                          |
| Blade tip material | TCT + PVD coating                                                                                                                                                                                                                            |
| Features           | Adopted high-end nano coating technology, it improves the surface finish of cutting edges. The coated surface features non-stick performance and superior wear resistance, delivering consistent service life and excellent cutting quality. |



• Tooth Geometry •

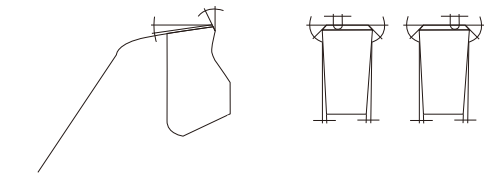
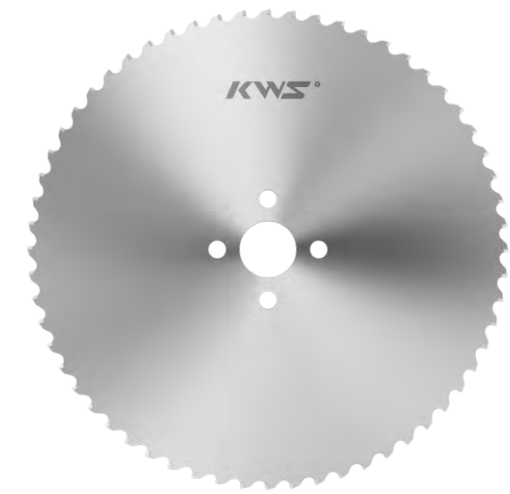


Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

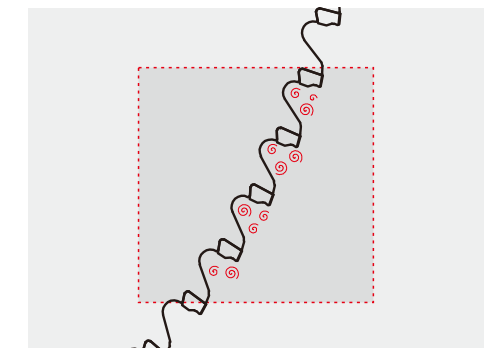
**Application Scenarios:** Suitable for fixed-length cutting of stainless steel tubes, industrial fluid pipes, stainless steel profiles, kitchen and bathroom hardware, precision stainless steel small parts.

**Recommended Operating Conditions:** Low linear speed, small feed per tooth; sufficient lubrication and cooling must be provided; for interrupted cutting, slow down feed rate to prevent tooth chipping.

MQL cold cutting is preferred; dry cutting is not allowed. Stainless steel alloy blades cannot be used for cutting carbon steel; tool life will be severely reduced. For materials with Cr content >12%, coated stainless steel cold saw blades are recommended; for Cr content ≤12%, cold saw blades with coating is also recommended. Stainless steel cold saw blades tend to accumulate material adhesion; when sawing, adjust the steel wire brush so it contacts 1/2 of the saw blade tip depth (for ordinary carbon steel, contact only is sufficient). Use as recommended during operation (strictly prohibited to use carbon steel saw blades for cutting stainless steel materials). During sawing, it is recommended to replace the steel wire brush at a frequency of ≤2 blades per brush.



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

**Application Scenarios:** Rough machining of thicker plates / carbon steel plates, carbon steel profiles, precision sheet metal blanking (most common).

**Recommended Operating Conditions:** Low spindle speed, moderate feed per tooth; sufficient lubrication and cooling must be provided; dry cutting is strictly prohibited; for interrupted cutting, slow down feed rate to prevent tooth chipping.

**Usage Recommendations:** This carbon steel plate cold saw blade is not recommended for processing non-carbon steel materials such as stainless steel or aluminum. Carbon steel: 80-90 RPM (process recommended speed). For new or resharpened blades, it is recommended to start with 10% lower feed rate for the first 5-10 cuts, then increase to normal parameters. Use as recommended during operation (strictly prohibited to use carbon steel plate saw blades for cutting stainless steel materials).

## Carbon Steel Plate Saw

### • Machines •

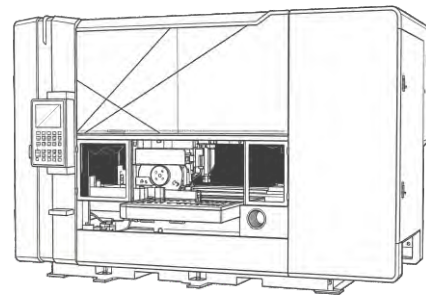


Plate saw machine

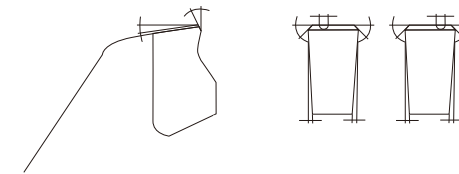
### • Materials •



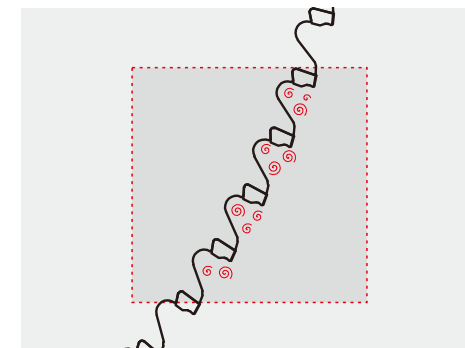
Steel plate

### Product Information

|                    |                                                                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Sawing of various carbon steel plates.                                                                                                                                                                             |
| Machines           | Plate saw machine                                                                                                                                                                                                  |
| Feed per tooth     | FZ = 0.05 mm-0.09 mm                                                                                                                                                                                               |
| Material           | Various carbon steel plates (e.g., 45#, P20)                                                                                                                                                                       |
| Blade tip material | Cermet + PVD coating                                                                                                                                                                                               |
| Features           | Utilizes a specially customized steel plate body containing rare earth elements for enhanced toughness. Features custom-designed metal tips and a unique geometry, resulting in superior durability and stability. |



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

**Application Scenarios:** Rough machining of thicker plates / stainless steel plates.

**Recommended Operating Conditions:** Low spindle speed, moderate feed per tooth; sufficient lubrication and cooling must be provided; dry cutting is strictly prohibited; for interrupted cutting, slow down feed rate to prevent tooth chipping.

**Usage Recommendations:** Blade: .Coated cold saw blade for stainless steel plates. Speed: Recommended low speed 50-60 RPM (process theoretical recommendation). Use as recommended during operation (strictly prohibited to use carbon steel type saw blades for cutting stainless steel materials). Large batch fixed-length cutting, low cost, high efficiency. Compatible with various equipment; customization is available.

## Stainless Steel Plate Saw

### • Machines •

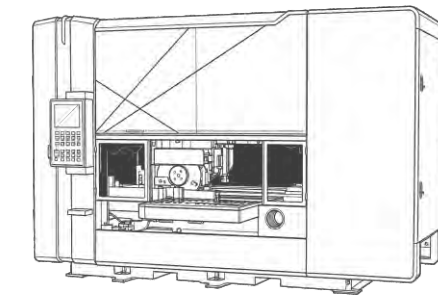


Plate saw machine

### • Materials •



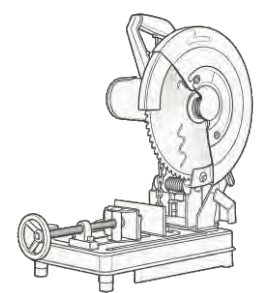
Stainless Steel Plate

### Product Information

|                    |                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Sawing of various stainless steel plates.                                                                                                                                   |
| Machines           | Plate saw machine                                                                                                                                                           |
| Feed per tooth     | FZ = 0.03 mm-0.05 mm                                                                                                                                                        |
| Material           | Various stainless steel plates.                                                                                                                                             |
| Blade tip material | TCT + PVD coating                                                                                                                                                           |
| Features           | Exclusive chip evacuation design enables efficient sawing without material sticking to the blade, resists tooth chipping, and delivers a clean, aesthetically pleasing cut. |

Dry Cutting Saw Blade

•Machines•



Chop saw machine

• Materials •



Carbon steel



channel steel



rebar



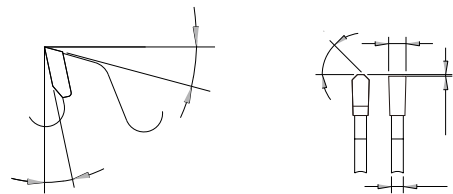
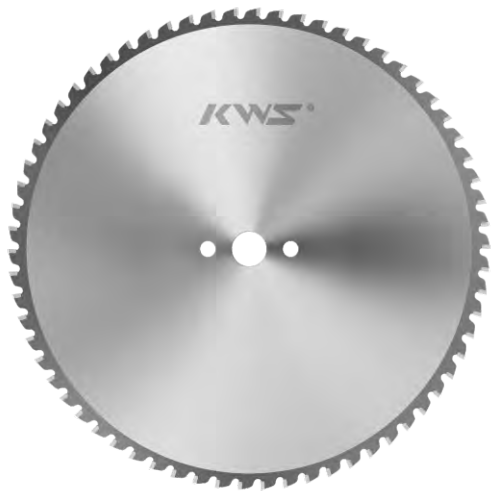
round steel



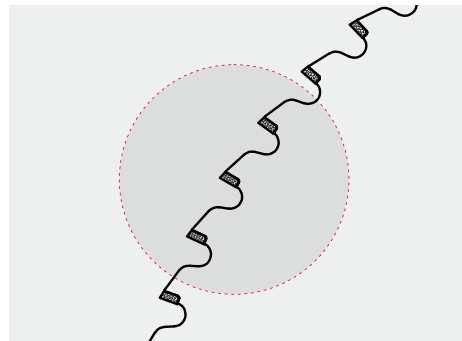
steel plate

Product Information

|                        |                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Application            | Cutting various medium and low carbon steel                                                                                          |
| Machines               | Dedicated portable cold saw cutting machine                                                                                          |
| Matching spindle speed | N = 700-1500 r/min                                                                                                                   |
| Material               | Steel tube, channel steel, angle steel, rectangular tube, steel bar                                                                  |
| Blade tip material     | Cermet                                                                                                                               |
| Features               | Good portability, wide application range, beautiful cutting appearance, suitable for home decoration / construction site industries. |



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

**Application Scenarios:** On-site cutting at job sites (most common) / on-site processing during installation / auto repair / agricultural machinery repair / door, window and railing projects.

**Recommended Operating Conditions:** It is strictly prohibited to install a portable metal cutting saw on equipment with a spindle speed higher than 1800 RPM.

**Usage Recommendations:** This product is not suitable for large-volume mass production precision cutting, thick plate large materials, or high-precision fixed-length cutting. Most suitable for Q235 carbon steel square tubes / round tubes, flat iron, angle iron, channel steel. Do not use on quenched, tempered, or steel with Rockwell hardness higher than 40 HRC.

KWS-935S-2



KWS-1035D-2



KWS-355Y



- Features:**
- 1. Precise cutting
  - 2. Cut at 45 degrees on both sides
  - 3. Brushless motor technology
  - 4. Variable-frequency intelligent control

Chop Saw Machine

•Cutting Material•

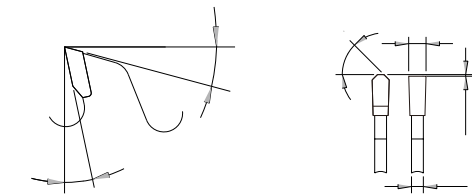


Technical Specifications

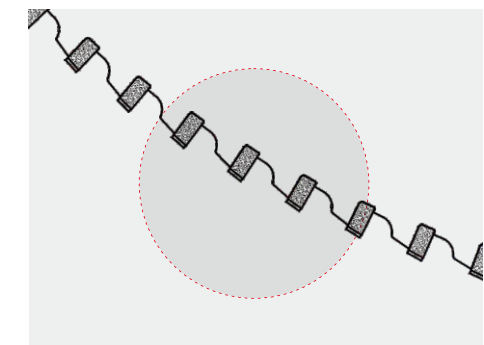
| Product Model            | KWS-1035D-2                             | KWS-355Y                                | KWS-935S-2         |
|--------------------------|-----------------------------------------|-----------------------------------------|--------------------|
| Rated Voltage, Frequency | 220V/50Hz                               | 220V/50Hz                               | 230V/50Hz          |
| Rated Power              | 3500W                                   | 3500W                                   | 2200W              |
| Diameter Of Saw Blade    | 355mm                                   | 355mm                                   | 355mm              |
| Diameter Of Joint Hole   | 25.4mm                                  | 25.4mm                                  | 25.4mm             |
| Thickness Of Saw Teeth   | 2.2mm                                   | 2.2mm                                   | 2.2mm              |
| Rated Speed              | 800-1300rpm<br>(Three-speed adjustment) | 800-1300rpm<br>(Three-speed adjustment) | 1450r/min(No load) |
| Net Weight               | 26KG                                    | 40KG                                    | 20.8KG             |

Permissible Workpiece Size

| Shape | Max. Cutting Size |
|-------|-------------------|
|       | Φ120mm            |
|       | 120mmx180mm       |
|       | 90mmx180mm        |



• Tooth Geometry •



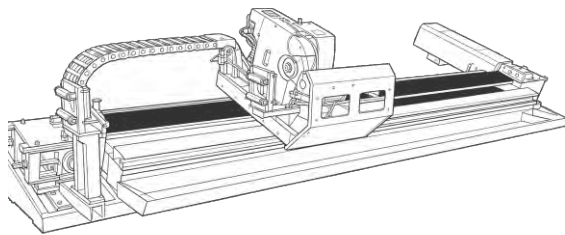
Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

**Application Scenarios:** Continuous extrusion / rolling profile production lines / metal tube production lines (most mainstream).

**Recommended Operating Conditions:** High spindle speed and large feed are strictly prohibited (easy to cause blade burning / tooth breakage); sufficient lubrication and cooling must be provided; dry cutting is strictly prohibited; for interrupted cutting, slow down feed rate to prevent tooth chipping. P-tooth is recommended for cutting pipes with weld seams; R-tooth is recommended for cutting pipes without weld seams (relatively thin-walled tubes / welded pipes). ZYT tooth is suitable for flying milling (most common). Run the new blade on the machine at idle for 30 seconds first to check for vibration and abnormal noise. For thick-walled pipes, choose coarse tooth spacing; for thin-walled pipes, choose fine tooth spacing; ensure 3-5 teeth are cutting simultaneously. Moderate clamping force: over-tightening cracks the blade; under-tightening causes slipping and tooth chipping.

## Flying Saw

• Machines •



Fully automatic flying saw

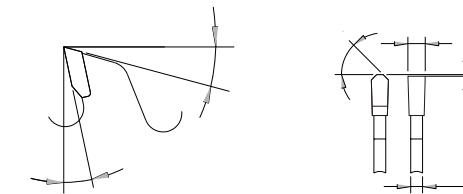
• Materials •



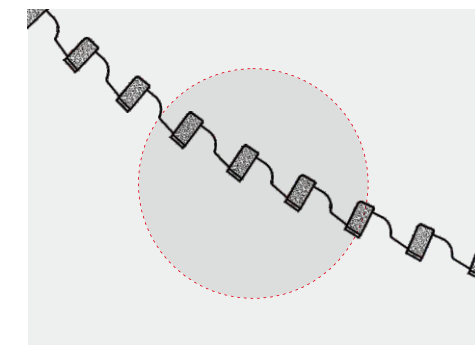
Round tube square tube special-shaped tube

 Product Information

|                          |                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application              | Cutting various types of tubes: round tubes, square tubes, rectangular tubes                                                                                |
| Machines                 | Fully automatic flying saw                                                                                                                                  |
| Recommended linear speed | V = 200-400 m/min                                                                                                                                           |
| Feed per tooth           | FZ = 0.05 mm-0.14 mm                                                                                                                                        |
| Material                 | Carbon steel tubes, various high-strength steel materials                                                                                                   |
| Blade tip material       | TCT + PVD coating                                                                                                                                           |
| Features                 | Five tooth types to meet different operating conditions; exclusively developed coating process to enhance surface wear resistance and oxidation resistance. |



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 3-5 teeth for best results.

**Application Scenarios:** Suitable for continuous cutting of ordinary carbon steel, alloy steel, structural steel, pipes, profiles, and solid bars. Widely used in machining, mold manufacturing, automotive parts, hardware products, and related industries.

**Recommended Operating Conditions:** Adequate coolant lubrication is required; dry cutting is strictly prohibited. Recommended low to medium speed operation to avoid tooth softening due to high temperatures. Solid bars allow moderate feed increase; thin-walled pipes require reduced feed to prevent vibration marks. Spindle runout should be controlled within 0.02 mm to avoid tooth chipping.

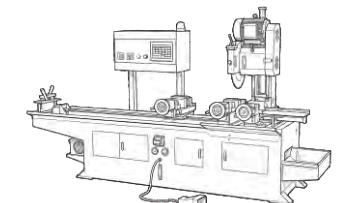
**Usage Recommendations:** Prefer oil mist lubrication or water-based cutting fluid. For new or resharpened blades, start with a 10% reduced feed rate for the first 5-10 cuts. Resharpen promptly when the blade becomes slightly dull to avoid excessive wear and blade failure. For stainless steel cutting: Standard HSS blades are not recommended. If stainless steel cutting is required, use cobalt-bearing HSS materials (e.g., HSS-Co, M42) with specialized coatings, and reduce cutting speed to 10-30 m/min. Not recommended for stainless steel, high-carbon steel (carbon content >0.6%), or materials with hardness >40 HRC. For prolonged continuous cutting, allow intermittent pauses to cool down and prevent thermal deformation of the blade body.

## HSS Saw Blade

• Machines •



Cold circular saw



Pipe cutting machine

• Materials •



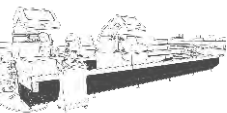
Carbon steel round bars Square tubes Rectangular tubes Channels Angle bars

 Product Information

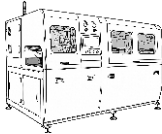
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | Cutting various medium and low carbon steels/ alloy steels                                                                                                                                                                                                                                                                                                                                                         |
| Machines          | Cold circular saw / automatic circular saw/ manual cold saw                                                                                                                                                                                                                                                                                                                                                        |
| Recommended Speed | N = 700 – 1500 r/min                                                                                                                                                                                                                                                                                                                                                                                               |
| Material          | HSS (High-Speed Steel, cobalt-bearing M42 optional)                                                                                                                                                                                                                                                                                                                                                                |
| Cutting Materials | Steel tubes/square tubes/ channels/ angle bars round bars/ rectangular tubes                                                                                                                                                                                                                                                                                                                                       |
| Features          | Precision tooth geometry ensures smooth cutting surfaces with minimal burrs. High-rigidity blade body for stable cutting without deflection. Excellent toughness - ideal for complex shapes and interrupted cutting applications. Cost-effective, ideal for high-volume continuous cutting. Customizable tooth count, geometry, and coating based on material thickness, bar diameter, and equipment requirements. |

PCD Aluminum Saw Blade

• Machines •



CNC double-head miter saw



burr-free aluminum cutting saw



cutting center

• Materials •



Aluminum Alloy Profiles



UPVC Profiles



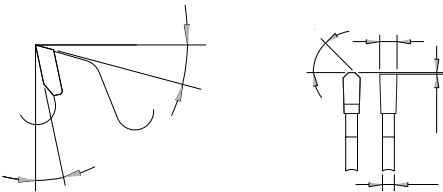
Aluminum Profiles



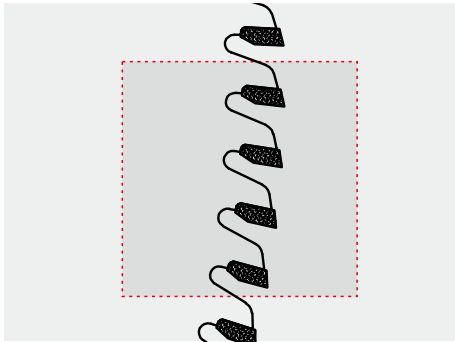
Thermal Break Aluminum

Product Information

|                    |                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Cutting various aluminum alloy materials                                                                                                                                                                              |
| Machines           | Double-head miter saw / cutting center<br>burr-free aluminum cutting saw                                                                                                                                              |
| Recommended Speed  | N = 2800-3500 r/min                                                                                                                                                                                                   |
| Material           | Plastic steel / aluminum profiles / thermal-break aluminum non-ferrous metals                                                                                                                                         |
| Blade tip material | PCD (Polycrystalline Diamond)                                                                                                                                                                                         |
| Features           | High-durability PCD tips, suitable for various cutting applications in the aluminum door and window industry. Patented heat treatment technology delivers a refined microstructure, ensuring stable blade performance |



• Tooth Geometry •



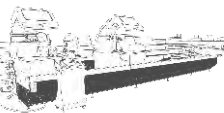
Recommendation: The saw teeth should engage the workpiece across 4-8 teeth for best results

**Application Scenarios:** Door, window and curtain wall / industrial aluminum profiles / outdoor building materials / whole-home customization

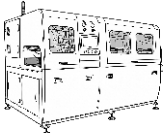
**Recommended Operating Conditions:** Diamond tips are relatively brittle, making tooth chipping a common issue. Cutting steel, stainless steel, iron parts, or copper materials is strictly prohibited, as these can easily cause direct chipping or breakage of the diamond tips. Aluminum saw blades feature a chrome-plated (DG) body, which enhances wear resistance and corrosion protection, thereby extending the blade's service life. If aluminum chips adhere to the cut surface, remove them promptly. Failure to do so will result in increased burrs with each cut, leading to heat buildup, chip clogging, and blade breakage. For extended cutting operations, intermittent pauses should be taken to allow the blade to cool down, preventing deformation of the blade body due to excessive heat. Thin-walled aluminum requires a high tooth count (dense tooth pitch); thick-walled or solid aluminum requires a low tooth count (wider tooth pitch). For materials with a cutting thickness of ≥5 mm, an aluminum plate saw blade is recommended.

TCT Aluminum Saw Blade

• Machines •



CNC Double Head Saw



Zero Scrap Aluminum Cutting Saw



Sawing Center

• Materials •



Aluminum Alloy Profiles



UPVC Profiles



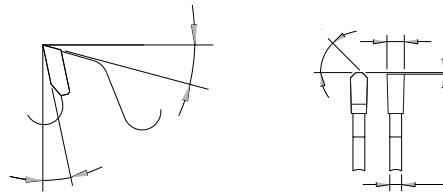
Aluminum Profiles



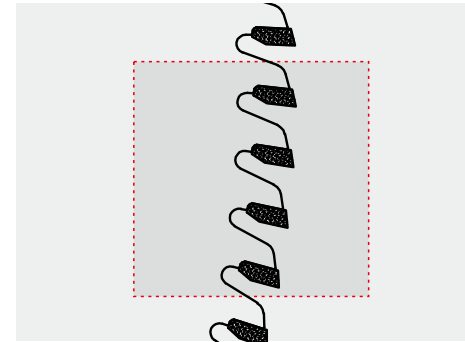
Thermal Break Aluminum

Product Information

|                    |                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Cutting various aluminum alloy materials                                                                                                                                                                              |
| Machines           | Double-head miter saw / cutting center<br>burr-free aluminum cutting saw                                                                                                                                              |
| Recommended Speed  | N = 2800 -3500 r/min                                                                                                                                                                                                  |
| Material           | Plastic steel / aluminum profiles / thermal-break aluminum non-ferrous metals                                                                                                                                         |
| Blade tip material | TCT                                                                                                                                                                                                                   |
| Features           | Ultra-fine, high-toughness carbide for exceptional durability. Versatile across aluminum door and window cutting applications. Patented heat treatment refines the microstructure to ensure stable blade performance. |



• Tooth Geometry •



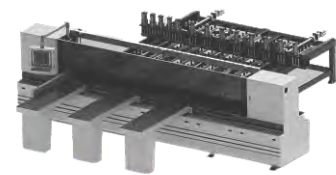
Recommendation: The saw teeth should engage the workpiece across 4-8 teeth for best results

**Application Scenarios:** Door, window and curtain wall / industrial aluminum profiles / outdoor building materials / whole-home customization

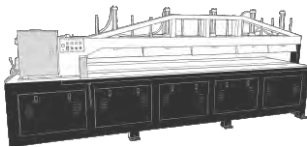
**Recommended Operating Conditions:** Aluminum saw blades feature a chrome-plated (DG) body, which enhances wear resistance and corrosion protection, thereby extending the blade's service life. If aluminum chips adhere to the cut surface, remove them promptly. Failure to do so will result in increased burrs with each cut, leading to heat buildup, chip clogging, and blade breakage. Durability is lower compared to diamond (PCD) aluminum saw blades. Thin-walled aluminum requires a high tooth count (dense tooth pitch); thick-walled or solid aluminum requires a low tooth count (wider tooth pitch). For materials with a cutting thickness of ≥5 mm, an aluminum plate saw blade is recommended. The cut is burr-free with an excellent surface finish.

TCT Aluminum Plate Saw Blade

• Machines •



precision CNC  
aluminum plate saw



aluminum plate saw

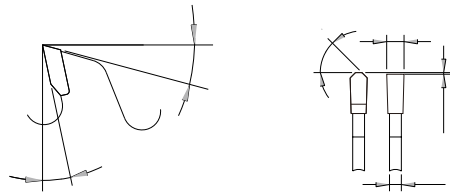
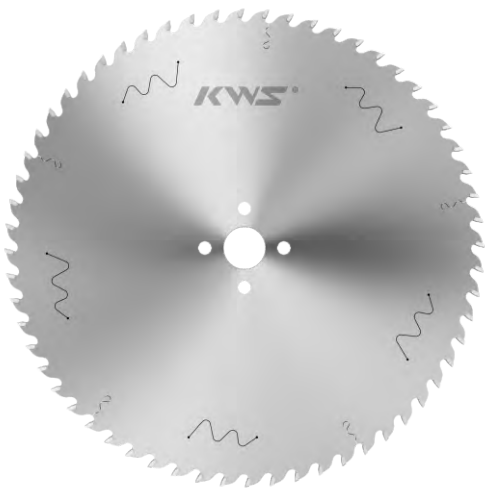
• Materials •



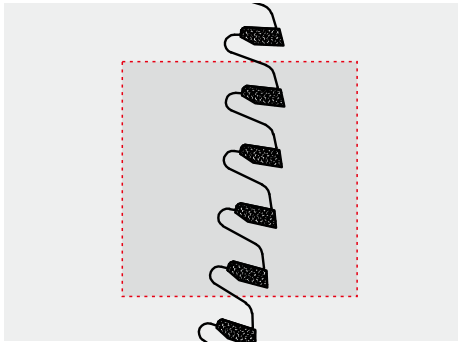
aluminum plate

Product Information

|                    |                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Cutting various aluminum alloy materials                                                                                                                                 |
| Machines           | Aluminum plate saw / precision CNC aluminum plate saw                                                                                                                    |
| Recommended Speed  | N = 2800 -3500 r/min                                                                                                                                                     |
| Material           | Aluminum plate with thickness ≥5mm                                                                                                                                       |
| Blade tip material | TCT                                                                                                                                                                      |
| Features           | Good cutting performance; special high-rigidity steel body ensures non-deflection cutting; can be customized according to aluminum thickness and equipment requirements. |



• Tooth Geometry •



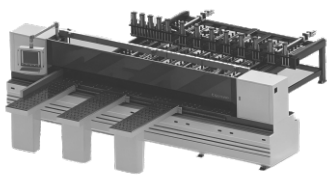
Recommendation: The saw teeth should engage the workpiece across 4-8 teeth for best results

**Application Scenarios:** Specifically for cutting pure aluminum plates, alloy aluminum plates, patterned aluminum plates, aluminum bars; mainly for flat plate cutting, low noise, can be stacked for cutting.

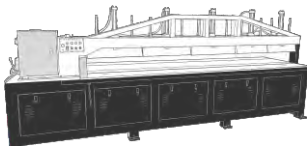
**Recommended Operating Conditions:** It is prohibited to use ordinary aluminum saw blades for cutting aluminum plates; this will severely reduce blade service life. For film-coated aluminum plates, it is preferred to cut with the coated side facing up to prevent scratching. Chrome-plated (DG) blade body increases wear resistance and corrosion resistance, extending blade service life. If aluminum chips stick to the cut surface, clean them promptly to avoid accumulating chips that cause heat generation, chip jamming, and blade breakage. Do not use excessively high spindle speed; follow the cutting parameters recommended by the equipment manufacturer and our company. Aluminum plate blades have relatively fewer teeth to ensure that the customer's material engages the proper number of teeth, balancing stable cutting performance

PCD Aluminum Plate Saw Blade

• Machines •



precision CNC  
aluminum plate saw



aluminum plate saw

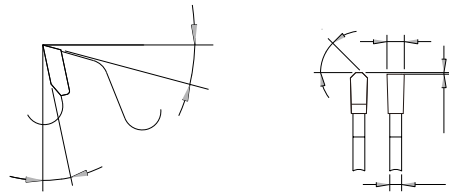
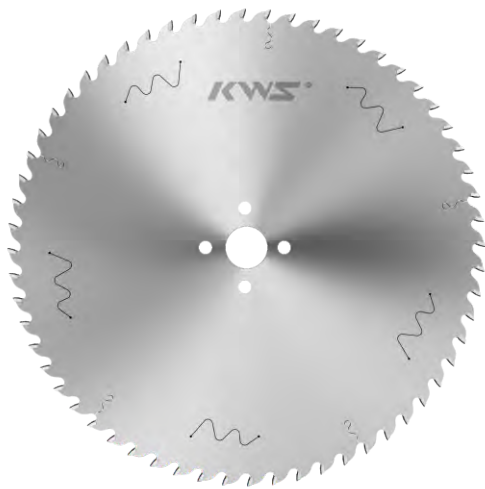
• Materials •



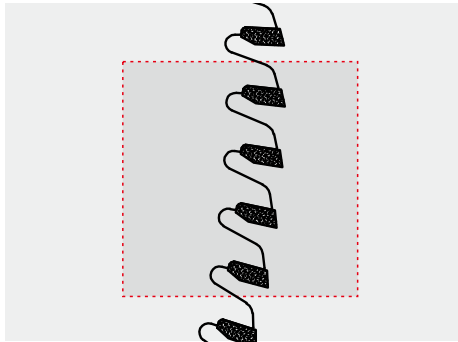
aluminum plate

Product Information

|                    |                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application        | Cutting various aluminum alloy materials                                                                                                                                                                                                    |
| Machines           | Aluminum plate saw / precision CNC aluminum plate saw                                                                                                                                                                                       |
| Recommended Speed  | N = 2800 -3500 r/min                                                                                                                                                                                                                        |
| Material           | Aluminum plate with thickness ≥5mm                                                                                                                                                                                                          |
| Blade tip material | PCD                                                                                                                                                                                                                                         |
| Features           | Composite diamond tips deliver superior cutting performance and extended service life. The high-rigidity steel plate ensures deflection-free, tilt-free cutting. Customization available for aluminum thickness and machine specifications. |



• Tooth Geometry •



Recommendation: The saw teeth should engage the workpiece across 4-8 teeth for best results

**Application Scenarios:** Specifically for cutting pure aluminum plates, alloy aluminum plates, patterned aluminum plates, aluminum bars; mainly for flat plate cutting, low noise, can be stacked for cutting.

**Recommended Operating Conditions:** It is prohibited to use ordinary aluminum saw blades for cutting aluminum plates; this will severely reduce blade service life. For film-coated aluminum plates, it is preferred to cut with the coated side facing up to prevent scratching. Chrome-plated (DG) blade body increases wear resistance and corrosion resistance, extending blade service life. If aluminum chips stick to the cut surface, clean them promptly to avoid accumulating chips that cause heat generation, chip jamming, and blade breakage. Do not use excessively high spindle speed; follow the cutting parameters recommended by the equipment manufacturer and our company. Aluminum plate blades have relatively fewer teeth to ensure that the customer's material engages the proper number of teeth, balancing stable cutting performance. For cutting materials with thickness ≥5mm, an aluminum plate saw is recommended. Lower overall usage and maintenance costs.

Specification

| Pin Hole/pin Hole |         |         |         | Bore  |
|-------------------|---------|---------|---------|-------|
| 4/9/50            | 4/11/63 |         |         | 32.00 |
| 4/11/63           | 4/11/90 | 2/12/65 | 2/15/80 | 40.00 |
| 4/11/90           | 4/16/80 | 4/21/90 |         | 50.00 |

| Diameter<br>(mm) | Teeth No. | Cutting Range(mm) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|------------------|-----------|-------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|                  |           | 0                 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 160 | 165 | 170 | 175 | 180 | 200 |  |  |
| 250              | 54        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 72        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 285              | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 72        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 80        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 360              | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 80        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 100       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 425              | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 80        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 100       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 460              | 40        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 80        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 560              | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 80        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 100       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| 630              | 60        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 72        |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|                  | 100       |                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

Tips

- 1.The cold saw blades are resharpenable.
- 2.The unique design of tooth shape ensures premium cutting performance.
- 3.Different tooth angles are designed for different cutting applications.
- 4.KWS provides tooth-resharpening services.



Cutting Amount Per Tooth (fz)

|                                       |
|---------------------------------------|
| $Fz \text{ (mm/blade)} = F / (N * Z)$ |
| Fz: the amount of cut per tooth       |
| F: feed speed (m/min)                 |
| N: Equipment spindle speed (rpm)      |
| Z: number of teeth                    |

Recommended Parameters

|                             |
|-----------------------------|
| Bar Fz=0.04~0.09 (mm/blade) |
| PipeFz=0.03~0.06 (mm/blade) |

Cutting Speed - Saw Blade Linear Speed (V)

|                                          |
|------------------------------------------|
| $V \text{ (m/min)} = \pi * D * N / 1000$ |
| V: cutting linear speed (m/min)          |
| D: outer diameter (mm)                   |
| N: Equipment spindle speed (rpm)         |

Recommended Parameters

|                                               |
|-----------------------------------------------|
| Medium and low carbon steel V=100~130 (m/min) |
| Highcarbon,alloysteelV=90~110 (m/min)         |

Installation Guide



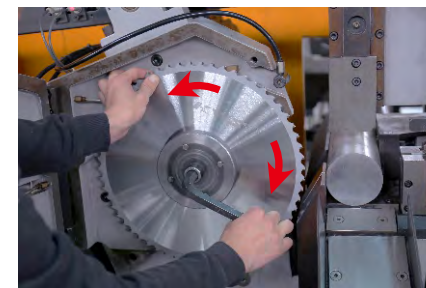
- 1 A. Saw blade must be mounted at the correct direction  
B. Always clean the surface of the plate before mounting to the arbor of machine



- 2 The flange must be free from scratches and wiped clean.



- 3 The cover of flange must be free from scratches and wiped clean.



- 4 4.When locking,the saw blade and flange must be in different direction to get rid of the gaps between them.

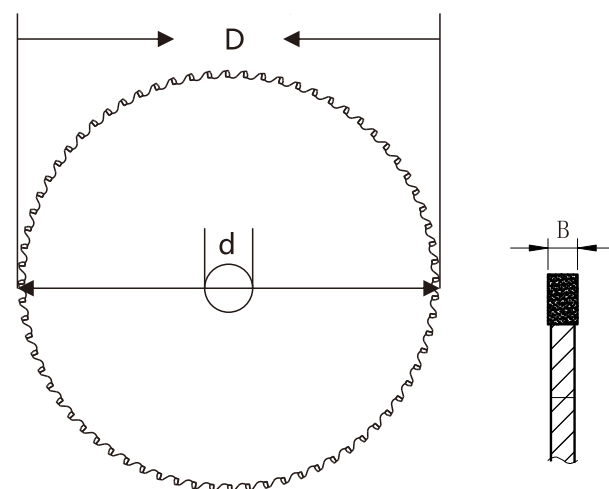


- 5 5.The length of workpiece should not be shorter than 20mm.Otherwise, the saw blade will be broken.

Safety Use & Maintenance Guide

1. The machine must be in good condition, free of vibration.
2. The flanges to secure the blade should be of the same diameter, or at least 1/3 of the blade's diameter. The flanges must be parallel to each other.
3. The spindle must be perfectly straight and with an H7 standard tolerance.
4. Before installation of the blade, the flange, spindle and blade must be cleaned. Uninstall the blade and clean it again after continuous use.
5. Before cutting process, make sure the blade is correctly locked and the size is in line with the machine's requirement.
6. The blade must be resharpened as soon as it becomes dull. When the tips' thickness is less than 0.5 mm, throw away the blade.
7. The maximum re-boring size must not exceed 20 mm based on the original bore size. Otherwise, the overall performance of the blade will be affected negatively.

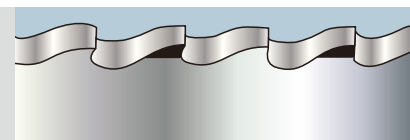
## Explanation of abbreviations



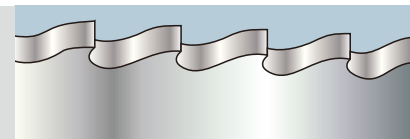
D=Outer Diameter  
d=Inner Hole  
B=Cutting Width  
Z=Tooth Number

## HSS Saw Blade Tooth Shape

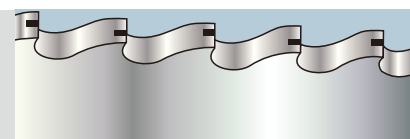
**BW** is the standard tooth shape for the pipe cutting.



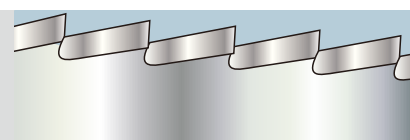
**B** is to be used for blades with thin thickness (<1,3mm) as an alternative of BW.



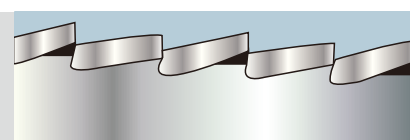
**Br** is the best tooth shape to cut pipe on automatic machines.



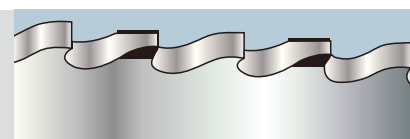
**A** is the tooth shape used in case of small tooth pitch (T<3mm) or to cut brass alloy, jewellery and screw slotting.



**Aw** add to the A the bevel that allow to optimize the chip shredding.



**HZ** is used in the solid cutting or to cut thick (>3mm) pipes.



## Model Numbers

### Cold Saw Blade

| NO | Size            | D   | d  | B    | Z   |
|----|-----------------|-----|----|------|-----|
| 01 | 250*32*2.0*54   | 250 | 32 | 2.0  | 54  |
| 02 | 250*32*2.0*60   | 250 | 32 | 2.0  | 60  |
| 03 | 250*32*2.0*72   | 250 | 32 | 2.0  | 72  |
| 04 | 250*32*2.0*80   | 250 | 32 | 2.0  | 80  |
| 05 | 250*32*2.0*100  | 250 | 32 | 2.0  | 100 |
| 06 | 250*32*2.0*120  | 250 | 32 | 2.0  | 120 |
| 07 | 285*32*2.0*54   | 285 | 32 | 2.0  | 54  |
| 08 | 285*32*2.0*60   | 285 | 32 | 2.0  | 60  |
| 09 | 285*32*2.0*80   | 285 | 32 | 2.0  | 80  |
| 10 | 285*32*2.0*100  | 285 | 32 | 2.0  | 100 |
| 11 | 285*32*2.0*120  | 285 | 32 | 2.0  | 120 |
| 12 | 315*32*2.25*60  | 315 | 32 | 2.25 | 60  |
| 13 | 315*32*2.25*72  | 315 | 32 | 2.25 | 72  |
| 14 | 315*32*2.25*80  | 315 | 32 | 2.25 | 80  |
| 15 | 315*32*2.25*100 | 315 | 32 | 2.25 | 100 |
| 16 | 315*32*2.25*120 | 315 | 32 | 2.25 | 120 |
| 17 | 360*40*2.6*60   | 360 | 40 | 2.6  | 60  |
| 18 | 360*40*2.6*72   | 360 | 40 | 2.6  | 72  |
| 19 | 360*40*2.6*80   | 360 | 40 | 2.6  | 80  |
| 20 | 360*40*2.6*100  | 360 | 40 | 2.6  | 100 |
| 21 | 360*40*2.6*120  | 360 | 40 | 2.6  | 120 |

| NO | Size           | D   | d  | B   | Z   |
|----|----------------|-----|----|-----|-----|
| 22 | 380*40*2.6*60  | 380 | 40 | 2.6 | 60  |
| 23 | 380*40*2.6*72  | 380 | 40 | 2.6 | 72  |
| 24 | 380*40*2.6*80  | 380 | 40 | 2.6 | 80  |
| 25 | 380*40*2.6*100 | 380 | 40 | 2.6 | 100 |
| 26 | 400*50*2.6*60  | 400 | 50 | 2.6 | 60  |
| 27 | 425*50*2.7*60  | 425 | 50 | 2.7 | 60  |
| 28 | 425*50*2.7*80  | 425 | 50 | 2.7 | 80  |
| 29 | 425*50*2.7*100 | 425 | 50 | 2.7 | 100 |
| 30 | 460*50*2.7*60  | 460 | 50 | 2.7 | 60  |
| 31 | 460*50*2.7*72  | 460 | 50 | 2.7 | 72  |
| 32 | 460*50*2.7*80  | 460 | 50 | 2.7 | 80  |
| 33 | 460*50*2.7*100 | 460 | 50 | 2.7 | 100 |
| 34 | 460*50*2.7*120 | 460 | 50 | 2.7 | 120 |
| 35 | 485*50*2.7*60  | 485 | 50 | 2.7 | 60  |
| 36 | 485*50*2.7*72  | 485 | 50 | 2.7 | 72  |
| 37 | 485*50*2.7*80  | 485 | 50 | 2.7 | 80  |
| 38 | 485*50*2.7*100 | 485 | 50 | 2.7 | 100 |
| 39 | 560*50*3.0*60  | 560 | 50 | 3.0 | 60  |
| 40 | 630*80*3.4*72  | 630 | 80 | 3.4 | 72  |
| 41 | 630*80*3.4*80  | 630 | 80 | 3.4 | 80  |
| 42 | 630*80*3.4*100 | 630 | 80 | 3.4 | 100 |

| Flying Saw Blade |                 |     |    |     |     |    |                          |     |             |     |     |
|------------------|-----------------|-----|----|-----|-----|----|--------------------------|-----|-------------|-----|-----|
| NO               | Size            | D   | d  | B   | Z   | NO | Size                     | D   | d           | B   | Z   |
| 01               | 250*3.2*64T     | 250 |    | 3.2 | 64  | 23 | 400*50*3.6*140T          | 400 | 50          | 3.6 | 140 |
| 02               | 250*3.2*72T     | 250 |    | 3.2 | 72  | 24 | 450*50*2.8*120T          | 450 | 50          | 2.8 | 120 |
| 03               | 250*3.2*80T     | 250 |    | 3.2 | 80  | 25 | 450*50*3.6*120T          | 450 | 50          | 3.6 | 120 |
| 04               | 300*3.2*52T     | 300 |    | 3.2 | 52  | 26 | 450*50*3.6*130T          | 450 | 50          | 3.6 | 130 |
| 05               | 300*3.2*64T     | 300 |    | 3.2 | 64  | 27 | 450*50*3.6*140T          | 450 | 50          | 3.6 | 140 |
| 06               | 300*3.2*72T     | 300 |    | 3.2 | 72  | 28 | 450*50*3.6*160T          | 450 | 50          | 2.8 | 160 |
| 07               | 300*4.0*52T     | 300 |    | 4.0 | 52  | 29 | 500*50*3.6*120T          | 500 | 50          | 3.6 | 120 |
| 08               | 300*4.0/3.2*64T | 300 |    | 4.0 | 64  | 30 | 500*50*3.6*130T          | 500 | 50          | 3.6 | 130 |
| 09               | 300*4.0*72T     | 300 |    | 4.0 | 72  | 31 | 500*50*3.6*140T          | 500 | 50          | 3.6 | 140 |
| 10               | 355*3.5*64T     | 355 |    | 3.5 | 64  | 32 | 500*50*3.6*170T          | 500 | 50          | 3.6 | 170 |
| 11               | 355*3.5*72T     | 355 |    | 3.5 | 72  | 33 | 550*(80/90/140)*3.6*120T | 550 | (80/90/140) | 3.6 | 120 |
| 12               | 355*3.5*84T     | 355 |    | 3.5 | 84  | 34 | 560*(80/90/140)*3.6*120T | 560 | (80/90/140) | 3.6 | 120 |
| 13               | 380*4.0*52T     | 380 |    | 4.0 | 52  | 35 | 560*(80/90/140)*3.6*140T | 560 | (80/90/140) | 3.6 | 140 |
| 14               | 380*4.0*64T     | 380 |    | 4.0 | 64  | 36 | 560*(80/90/140)*3.6*170T | 560 | (80/90/140) | 3.6 | 170 |
| 15               | 380*4.0*72T     | 380 |    | 4.0 | 72  | 37 | 600*(80/90/140)*3.6*120T | 600 | (80/90/140) | 3.6 | 120 |
| 16               | 350*50*2.8*100T | 350 | 50 | 2.8 | 100 | 38 | 600*(80/90/140)*3.6*140T | 600 | (80/90/140) | 3.6 | 140 |
| 17               | 350*50*2.8*110T | 350 | 50 | 2.8 | 110 | 39 | 600*(80/90/140)*3.6*170T | 600 | (80/90/140) | 3.6 | 170 |
| 18               | 350*50*2.8*120T | 350 | 50 | 2.8 | 120 | 40 | 600*(80/90/140)*3.6*180T | 600 | (80/90/140) | 3.6 | 180 |
| 19               | 350*50*2.8*140T | 350 | 50 | 2.8 | 140 | 41 | 650*80*3.6*150T          | 650 | 80          | 3.6 | 150 |
| 20               | 400*50*3.6*110T | 400 | 50 | 3.6 | 110 | 42 | 650*80*3.6*170T          | 650 | 80          | 3.6 | 170 |
| 21               | 400*50*3.6*120T | 400 | 50 | 3.6 | 120 | 43 | 690*80*3.6*150T          | 690 | 80          | 3.6 | 150 |
| 22               | 400*50*3.6*130T | 400 | 50 | 3.6 | 130 |    |                          |     |             |     |     |

| HSS Saw Blade |     |          |                      |                                          |  |  |  |  |  |
|---------------|-----|----------|----------------------|------------------------------------------|--|--|--|--|--|
| NO            | D   | d        | B                    | Z                                        |  |  |  |  |  |
| 01            | 160 | 32       | 1.2/1.6/2.0          | 80/100/120/160                           |  |  |  |  |  |
| 02            | 175 | 32       | 1.6/2.0              | 64/90/110/140/180                        |  |  |  |  |  |
| 03            | 200 | 32       | 1.2/1.6/1.8/2.0      | 72/100/128/160/200                       |  |  |  |  |  |
| 04            | 225 | 32/40    | 1.2/1.6/2.0/2.5      | 64/80/90/120/150/180/220                 |  |  |  |  |  |
| 05            | 250 | 32/40    | 1.2/1.6/2.0/2.5      | 64/80/100/110/128/160/240                |  |  |  |  |  |
| 06            | 275 | 32/40    | 1.2/1.6/2.0/2.5/3.0/ | 72/78/110/120/144/180/220/280            |  |  |  |  |  |
| 07            | 300 | 32/38/40 | 1.6/2.0/2.5/3.0      | 80/90/100/110/120/140/240/320            |  |  |  |  |  |
| 08            | 315 | 32/40    | 2.0/2.5/3.0          | 72/80/90/120/140/160/200/250/320         |  |  |  |  |  |
| 09            | 325 | 32/40    | 2.0/2.5/3.0          | 90/100/110/130/150/250/320               |  |  |  |  |  |
| 10            | 350 | 32/40/50 | 2.0/2.5/3.0/3.5      | 80/90/110/160/180/220/280/350            |  |  |  |  |  |
| 11            | 370 | 32/40/50 | 2.0/2.5/3.0/3.5      | 70/80/90/100/110/120/140/160/190/220/300 |  |  |  |  |  |
| 12            | 400 | 32/40/50 | 2.5/3.0/3.5/4.0/4.5  | 70/80/90/100/160/180/200/250/320         |  |  |  |  |  |
| 13            | 425 | 32/40/50 | 2.5/3.0/3.5/4.0      | 70/80/100/110/120/130/140/260/350        |  |  |  |  |  |
| 14            | 450 | 40/50    | 2.5/3.0/3.5/4.0      | 80/90/100/120/140/180/240/280            |  |  |  |  |  |
| 15            | 500 | 40/50    | 3.0/3.5              | 90/100/110/130/160/200/260/310           |  |  |  |  |  |
| 16            | 525 | 50       | 3.0/3.5              | 90/104/120/140/164/210/270/330           |  |  |  |  |  |
| 17            | 550 | 50/80    | 3.5/4.0              | 100/110/120/150/180/220/300/360          |  |  |  |  |  |
| 18            | 560 | 50/80    | 3.5/4.0              | 100/110/130/140/170/220/80/340           |  |  |  |  |  |
| 19            | 600 | 50/80    | 3.5/4.0              | 100/120/130/160/190/240/320/380          |  |  |  |  |  |
| 20            | 630 | 50/80    | 3.0/3.5              | 100/120/130/160/190/240/320/380          |  |  |  |  |  |

Model Numbers

Dry Cutting Saw Blade

| NO | Size              | D   | d     | B   | Z  |
|----|-------------------|-----|-------|-----|----|
| 01 | 110*22.23*1.6*28T | 110 | 22.23 | 1.6 | 28 |
| 02 | 145*22.23*1.8*36T | 145 | 22.23 | 1.8 | 36 |
| 03 | 255*25.4*2.0*48T  | 255 | 25.4  | 2.0 | 48 |
| 04 | 305*25.4*2.2*66T  | 305 | 25.4  | 2.2 | 66 |

| NO | Size             | D   | d    | B   | Z  |
|----|------------------|-----|------|-----|----|
| 05 | 305*25.4*2.2*80T | 305 | 25.4 | 2.2 | 80 |
| 06 | 355*25.4*2.2*66T | 355 | 25.4 | 2.2 | 66 |
| 07 | 400*25.4*3.2*72T | 400 | 25.4 | 3.2 | 72 |
| 08 | 455*25.4*3.6*84T | 455 | 25.4 | 3.6 | 84 |

PCD Aluminum Saw Blade

| NO | Size              | D   | d    | B   | Z   |
|----|-------------------|-----|------|-----|-----|
| 01 | 250*30*5.0*48T    | 250 | 30   | 5.0 | 48  |
| 02 | 250*30*6.0*48T    | 250 | 30   | 6.0 | 48  |
| 03 | 300*30*5.0*72T    | 300 | 30   | 5.0 | 72  |
| 04 | 300*30*6.0*72T    | 300 | 30   | 6.0 | 72  |
| 05 | 350*30*3.5*120T   | 350 | 30   | 3.5 | 120 |
| 06 | 350*30*3.8*66T    | 350 | 30   | 3.8 | 66  |
| 07 | 350*30*5.0*80T    | 350 | 30   | 5.0 | 80  |
| 08 | 350*30*6.0*80T    | 350 | 30   | 6.0 | 80  |
| 09 | 400*32*3.8*120T   | 400 | 32   | 3.8 | 120 |
| 10 | 405*25.4*3.5*100T | 405 | 25.4 | 3.5 | 100 |
| 11 | 420*30*4.0*108T   | 420 | 30   | 4.0 | 108 |
| 12 | 450*30*4.0*120T   | 450 | 30   | 4.0 | 120 |

| NO | Size              | D   | d    | B   | Z   |
|----|-------------------|-----|------|-----|-----|
| 15 | 450*32*4.2*120T   | 450 | 32   | 4.2 | 120 |
| 16 | 500*25.4*4.4*120T | 500 | 25.4 | 4.4 | 120 |
| 17 | 500*30*4.4*120T   | 500 | 30   | 4.4 | 120 |
| 18 | 500*32*4.4*120T   | 500 | 32   | 4.4 | 120 |
| 19 | 500*80*4.4*120T   | 500 | 80   | 4.4 | 120 |
| 20 | 510*25.4*3.5*120T | 510 | 25.4 | 3.5 | 120 |
| 21 | 510*25.4*3.6*144T | 510 | 25.4 | 3.6 | 144 |
| 22 | 550*30*4.4*120T   | 550 | 30   | 4.4 | 120 |
| 23 | 550*30*4.4*144T   | 550 | 30   | 4.4 | 144 |
| 24 | 550*80*4.4*144T   | 550 | 80   | 4.4 | 144 |
| 25 | 600*30*4.8*144T   | 600 | 30   | 4.8 | 144 |
| 26 | 600*38*4.8*144T   | 600 | 38   | 4.8 | 144 |

Model Numbers

TCT Aluminum Saw Blade

| NO | Size             | D   | d    | B   | Z   |
|----|------------------|-----|------|-----|-----|
| 01 | 160*32*5.0*30T   | 160 | 32   | 5.0 | 30  |
| 02 | 160*32*6.5*30T   | 160 | 32   | 6.5 | 30  |
| 03 | 160*32*8.0*30T   | 160 | 32   | 8.0 | 30  |
| 04 | 160*32*10.0*30T  | 160 | 32   | 10  | 30  |
| 05 | 200*32*5.0*36T   | 200 | 32   | 5.0 | 36  |
| 06 | 200*32*6.5*36T   | 200 | 32   | 6.5 | 36  |
| 07 | 250*32*10.0*40T  | 250 | 32   | 10  | 40  |
| 08 | 250*32*13.0*40T  | 250 | 32   | 13  | 40  |
| 09 | 255*25.4*2.8*100 | 255 | 25.4 | 2.8 | 100 |
| 10 | 255*25.4*2.8*120 | 255 | 25.4 | 2.8 | 120 |
| 11 | 255*30*2.8*100   | 255 | 30   | 2.8 | 100 |
| 12 | 255*30*2.8*120   | 255 | 30   | 2.8 | 120 |
| 13 | 305*25.4*3.0*120 | 305 | 25.4 | 3.0 | 120 |
| 14 | 305*30*3.0*100   | 305 | 30   | 3.0 | 100 |
| 15 | 305*30*3.0*120   | 305 | 30   | 3.0 | 120 |
| 16 | 355*25.4*3.2*120 | 355 | 25.4 | 3.2 | 120 |
| 17 | 355*30*3.2*120   | 355 | 30   | 3.2 | 120 |
| 18 | 400*25.4*3.2*120 | 400 | 25.4 | 3.2 | 120 |
| 19 | 400*30*3.8*120   | 400 | 30   | 3.8 | 120 |
| 20 | 400*30*4.0*84    | 400 | 30   | 4.0 | 84  |
| 21 | 405*25.4*3.2*120 | 405 | 25.4 | 3.2 | 120 |

| NO | Size              | D    | d    | B   | Z   |
|----|-------------------|------|------|-----|-----|
| 22 | 405*25.4*3.5*120  | 405  | 25.4 | 3.5 | 120 |
| 23 | 405*30*3.5*120    | 405  | 30   | 3.5 | 120 |
| 24 | 405*30*3.8*120    | 405  | 30   | 3.8 | 120 |
| 25 | 450*30*4.0*100    | 450  | 30   | 4.0 | 100 |
| 26 | 450*30*4.0*120    | 450  | 30   | 4.0 | 120 |
| 27 | 500*30*4.0*84     | 500  | 30   | 4.0 | 84  |
| 28 | 500*30*4.0*100    | 500  | 30   | 4.0 | 100 |
| 29 | 500*30*4.4*120    | 500  | 30   | 4.4 | 120 |
| 30 | 500*32*4.4*120    | 500  | 32   | 4.4 | 120 |
| 31 | 500*80*4.4*120    | 500  | 80   | 4.4 | 120 |
| 32 | 550*30*4.4*120    | 550  | 30   | 4.4 | 120 |
| 33 | 550*30*4.4*144    | 550  | 30   | 4.4 | 144 |
| 34 | 550*30*4.6*120    | 550  | 30   | 4.6 | 120 |
| 35 | 550*30*4.6*144    | 550  | 30   | 4.6 | 144 |
| 36 | 550*32*4.4*120    | 550  | 32   | 4.4 | 120 |
| 37 | 550*32*4.6*120    | 550  | 32   | 4.6 | 120 |
| 38 | 600*30*4.8*144    | 600  | 30   | 4.8 | 144 |
| 39 | 600*38*4.8*144    | 600  | 38   | 4.8 | 144 |
| 40 | 700*30*5.0*60T    | 700  | 30   | 5.0 | 60  |
| 41 | 800*30*6.5*144T   | 800  | 30   | 6.5 | 144 |
| 42 | 1020*100*7.0*120T | 1020 | 100  | 7.0 | 120 |