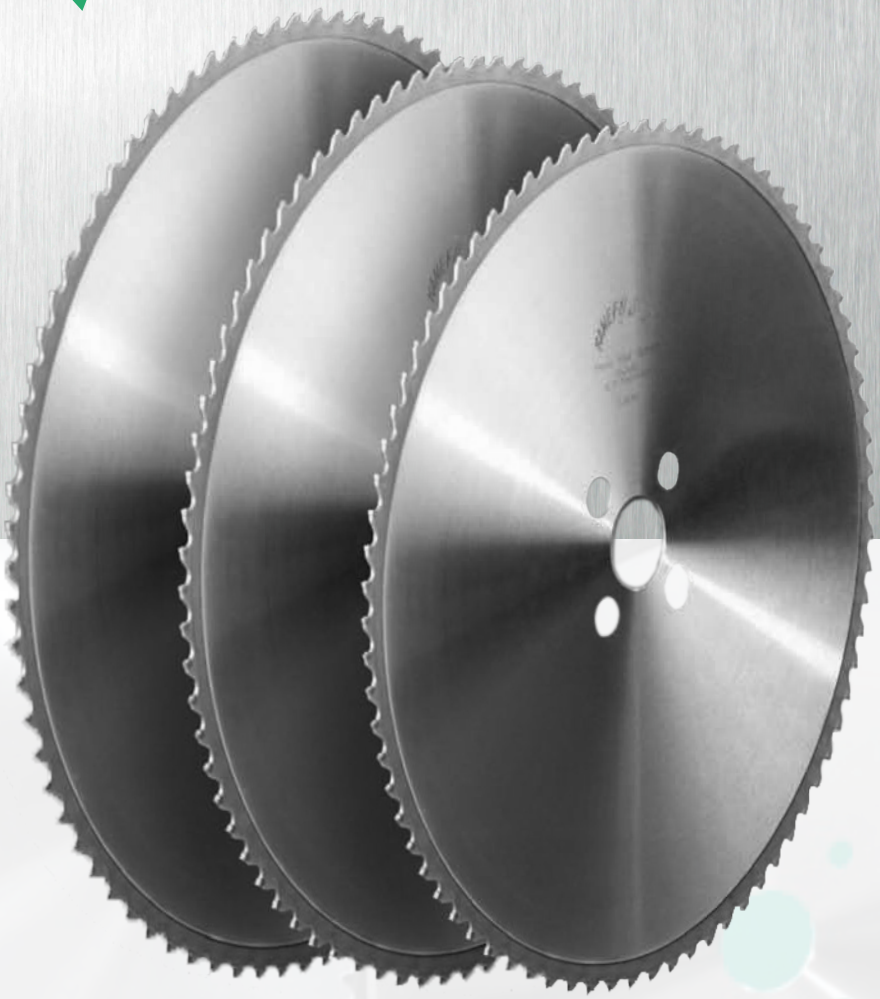
KANEFUSA



PAT MOONEY SAWS®
CUSTOMIZED SOLUTIONS

TRUST THE SHARPEST MINDS IN METAL CUTTING

A NEW DIMENSION OF PERFORMANCE IN CIRCULAR SAW BLADES.

KANEFUSA

TRUST THE SHARPEST MINDS IN METAL CUTTING

- Pat Mooney Saws and Kanefusa have a partnership dating back to 1996, and our ongoing collaboration has seen both companies experience growth and success.
- Kanefusa continues to remain the leader in thin kerf metal sawing technologies and innovations.

PREDICTABLE PERFORMANCE

- Japanese Quality Standards: Small production lots of saw blades ensure stringent quality standards.
- Repeatable and reliably consistent performance.

DURABLE DESIGN

- Specialty type and exclusive carbide grades proprietary to Kanefusa developed in partnership with a leading carbide manufacturer.
- Specialized brazing technology to ensure strong bonds and adherence from tip to blade body.
- Uniform thickness in material and distortion free.
- Continuous improvement processes to provide leading edge technologies and advancement.

ON-SITE SUPPORT

- Dedicated application engineers to support Kanefusa products throughout North America.
- Going beyond just the saw blade, our factory-trained application engineers focus on more than saw blade performance. They support the entire sawing operation by considering the big picture of sawing production and efficiency.

KANEFUSA

MULTIFUNCTION SERIES

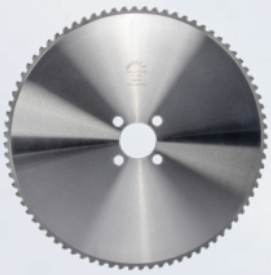
The ST series are uncoated saw blades perfectly designed for all carbon steel, alloyed steel, and low volume stainless steel cutting applications. Specially designed tips are highly durable and able to withstand damage to the cutting edge. These thin kerf throwaway style blades are designed to be run until failure to achieve the maximum performance with reduced downtime.

ST-5P: General Purpose Saw Blade

- Applications and Materials: Carbon and alloys, brass, bronze, copper, aluminum, in solid bar, tube, and pipe.
- Saw Types: Nishijimax® and similar.
- End-Users: Steel Service Centers, machine shops, and forge shops.
- Recommended Cutting Parameters: 100-200 m/min, 0.06-0.09 mm/t.

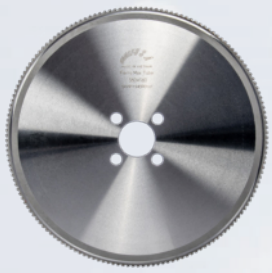
ST-5PR: Special Purpose Saw Blade

- "R" Type for heavy wall pipe or larger diameter solid bars, designed to hold straighter tolerance for longer periods of time.
- Applications and Materials: Carbon and alloys, brass, bronze, copper, aluminum, in solid bar, tube, and pipe.
- Saw Types: Nishijimax® and similar.
- End-Users: Steel Service Centers, machine shops, and forge shops.
- Recommended Cutting Parameters: 100-200 m/min, 0.06-0.09 mm/t.



ST-5PF: Optimized for Large Diameter Metal

- "F" Type designed to improve surface finish tolerances to meet higher standards of RA surface finish requirements.
- Applications and Materials: Carbon and alloys, brass, bronze, copper, aluminum, in solid bar stock.
- Saw Types: Nishijimax® and similar.
- End-Users: Steel Service Centers, machine shops, and forge shops.
- Recommended Cutting Parameters: 100-200 m/min, 0.06-0.09 mm/t.



ST-5PT: Optimized for Thin Wall Tube and Pipe

- "PT" Type specifically designed for Pipe and Tube applications where burr reduction and surface finish are critical.
- Applications and Materials: Thin wall carbon/alloy tubing.
- End-Users: Recut departments, tube fabrication, tube bending for automotive, HVAC, and mechanical tubing.

KANEFUSA

SPECIAL SERIES

The TA series are specially designed uncoated blades for unique applications. These thin kerf throwaway style blades are designed to be run until failure to achieve the maximum performance with reduced downtime.

TA-5SUS: Optimized for Stainless Steel

- Economic cost per cut when cutting stainless steel in low to medium production.
- Machine Types: Nishijimax® or similar.
- Applications and Materials: Variety of stainless steel grades such as 303, 304, and 316.
- End-Users: Machine shops, steel service centers, and forge shops.

TA-5AL: Optimized for Aluminum

- "AL" Type for high production aluminum cutting.
- Machine Types: Rotary transfer machines like Hydromat, Buffoli, and BTB.
- Applications and Materials: Aluminum with less than a 10% silica content.

MOLDPRO BW: Optimized for Window Sash

- MOLDPRO: Proprietary silicon injected slits for vibration dampening of the saw blade.
- Applications and Materials: Automotive sash and trim operations using various material grades, from plastic to stainless steel.

NOVAMETAL: PCD Tipped Saw Blades

- NOVAMETAL: Designed for harder to cut aluminum where the silica content is > 10%.
- Applications and Materials: Aluminum sand castings.
- End-Users: Engine block manufacturers, cylinder head manufacturers, and many other types of abrasive castings.

KANEFUSA

HIGH PERFORMANCE SERIES

The FerroMax Ti series are coated saw blades designed for alloy and other exotic steel applications that are difficult to cut. The proprietary coating combines with a special tooth tip that allows them to be run at higher speeds of 200m/min for longer tool life. These thin kerf throwaway style blades are designed to be run until failure to achieve the maximum performance with reduced downtime.

Ti-5R: Optimized and Coated for High Performance

- Applications and Materials: High carbon and alloy contents, heat treated or quenched and tempered materials in bar or tube products.
- Machine Types: Rattunde, Bewo, RSA, Sinico, and Nishijimax®, or similar.
- End-Users: Coupling, bearing, defense manufacturers, automotive, fabrication, and tube bending.
- Recommended Cutting Parameters: 200-300 m/min, 0.07-0.15 mm/t.

Ti-5PT: Optimized and Coated for Thin-Walled Tubing

- Applications and Materials: Carbon and alloy in tube products.
- Machine Types: Rattunde, Bewo, RSA, Sinico, and Nishijimax®.
- End-Users: Automotive, HVAC, fabrication, and tube bending.
- Recommended Cutting Parameters: 250-300 m/min, 0.03-0.06 mm/t.

Ti-5SUS: Optimized and Coated for Stainless Steel

- "SUS" Type designed for difficult to machine stainless and alloy products.
- Applications and Materials: Heat treated, quenched, and tempered, stainless steel, duplex, nitronic, and titanium.
- Machine Types: Rotary transfer machines like Hydromat, Buffoli, Sinico, Nishijimax®, and similar saws.
- End-Users: Machine shops and job shops, light duty aerospace, and critical component manufacturers.

Ti-5RLC: Optimized and Coated for Low Carbon Steel

- "LC" Type for low carbon solid bar and tubing.
- Applications and Materials: Low carbon content in tube and bar products.
- Machine Types: Rattunde, Bewo, RSA, Sinico, and Nishijimax®.
- End-Users: Automotive, HVAC, fabrication, tube bending.
- Recommended Cutting Parameters: 250-300 m/min, 0.07-0.15 mm/t.
- Recommended for Tensile Strength: Materials less than or equal to 88,000 PSI.

KANEFUSA

TUBE MILL SERIES

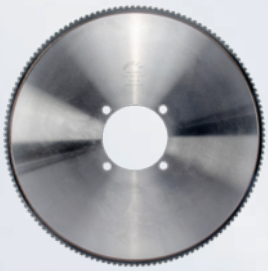
Reduce downtime with the Tube Mill series. Coated saw blades are designed for single spindle, dual spindle, and orbital tube mills making tube, pipe, or profile shapes. The blade design helps reduce wear on the cutting surface and proprietary coating means these blades can be run at high peripheral speeds (V=600m/min) while maintaining stable performance to improve productivity.

TUBE MAX

- Designed for NON-ID scarf cutting applications where a loose scarf is not present inside the tube.
- Machine Types: MTM, OTO, Fives, Freedom, FD Machinery, and similar.
- End-Users: Mechanical tubing producers, structural tubing producers, ERW tube mills, and electrical conduit pipe manufacturers.
- Steel Pipe Piles, HSS (Hollow Structural Sections), and HSLA (High Strength, Low Alloy).

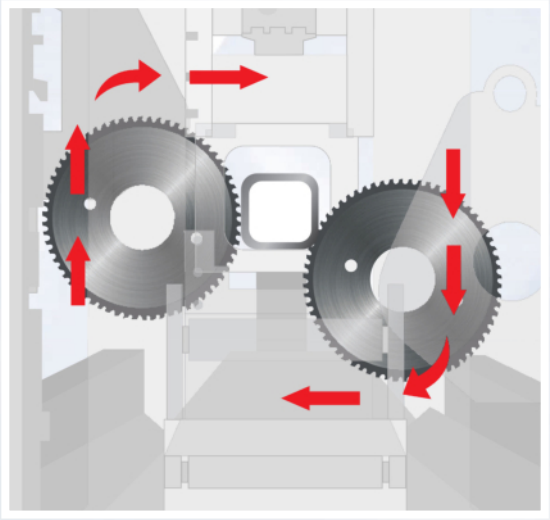
TUBE MAX ORBITAL

- Orbital type designed for specialized cut-off saws where the saw blades orbit the tube.
- Machine Types: Nakata, Kusakabe, OTO, Fives, ASMAG, Addafer, and similar.
- End-Users: Oil Country Tubular Goods (OCTG) producers, Steel Pipe Piles, HSS (Hollow Structural Sections), and HSLA (High Strength, Low Alloy).



TUBE MAX SCARF

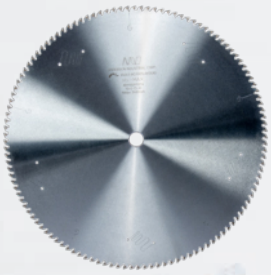
- Specially designed and developed tooth profile and carbide for optimal loose scarf cutting.
- Machine Types: Nakata, Kusakabe, OTO, Fives, MTM, Freedom, FD Machinery, and similar.
- End-Users: Mechanical tubing producers, structural tubing producers, HSLA (High Strength, Low Alloy) tube mills, and electrical conduit pipe manufacturers.



- Superior Performance
- Exceptional Finish
- Reduced Tool Changes for Higher Production

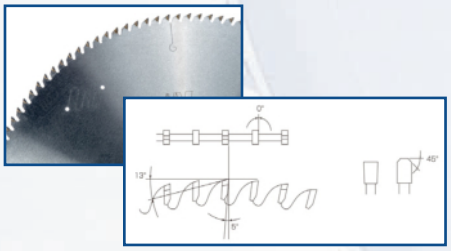
NONFERROUS SERIES

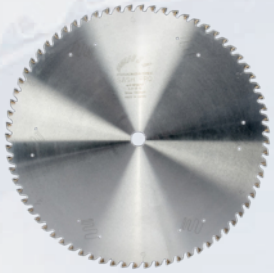
- Applications and Materials: Aluminum, brass, copper, bronze, and other soft alloys.
- Options for reducing material loss with thin kerf blades.
- Laser expansion slots for high RPM and vibration dampening.



D-TYPE: General Purpose

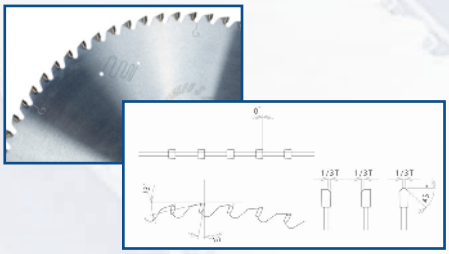
- Triple chip tooth design.
- Smooth surface finish in extrusions, tubes and pipes, or solid bar products.
- Minimal burr.
- Machine Type: PMI, upcut saws, nonferrous saws.
- Recommended RPM Range: 2000-4500 RPM (blade diameter dependent).

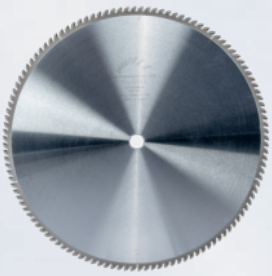




3DX: The Performance Blade

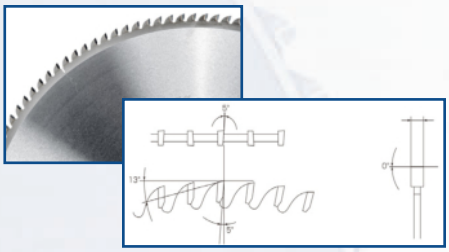
- California triple chip tooth design.
- Less cutting force required.
- Provides superior surface finish with straighter cuts due to tooth geometry.
- Offers faster cutting rates than traditional triple chip tooth design.
- "HV" Style: The "HV" design takes an already superior 3DX blade and enhances it further with higher quality side clearance angles for improved surface finish.





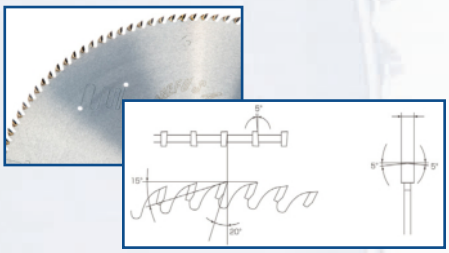
BC-5: Thin Wall Profile and Tube Blade

- Intended to be used when cutting < 5mm wall thickness on nonferrous extrusions or tubing.
- Less cutting force required.
- Cuts cleaner and straighter than traditional thin wall blades.



A-20: For Synthetic or Semi-Synthetic Materials That Use Polymers

- Aggressive positive rake angles optimized for cutting a variety of plastics without gumming up the blade.
- Provides minimal burr and excellent surface finish when sawing plastics and polymers.



We also provide carbide sharpening services for all Kanefusa nonferrous saw blades, as well as those of other brands.

KANEFUSA

ABOUT PAT MOONEY SAWS

Pat Mooney Saws helps companies maximize sawing performance through innovation, application insight, and dedicated technical support.

- Largest supplier of Kanefusa saw blades in the world.
- 1,000's of saw blades in stock and ready to ship.
- Call 800-323-7503 today for same day shipping on the following diameters and tooth counts.

HIGH PRODUCTION COLD SAW BLADES

Saw Blade Diameter (mm)	Tooth Counts
250	60, 72, 80, 100
285	60, 72, 80, 100, 140
315	60, 80
350	80, 100, 120, 140, 160
360	60, 70, 80, 100, 120, 140, 160
370	60, 80, 100, 120, 130, 140
420	40, 60, 80, 100, 140
460	40, 50, 60, 72, 80, 100, 120
470	40, 60, 80, 100
560	40, 60, 80, 100, 120
580	60, 80, 100, 120, 140, 160
630	60, 80, 100
660	50, 60, 80, 100, 120
750	50, 72, 120

IN STOCK TUBE MILL SAW BLADES

Saw Blade Diameter (mm)	Tooth Counts
355	72, 84, 100
380	66
400	70, 100, 120
450	130
500	140
560	140, 170
620	120, 140

Can't find your specific blade configuration or need help selecting the right blade for your application? Please call 800-323-7503 to speak with one of our specialized application engineers.

*Custom and specific blades available upon request.

PAT MOONEY SAWS®
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