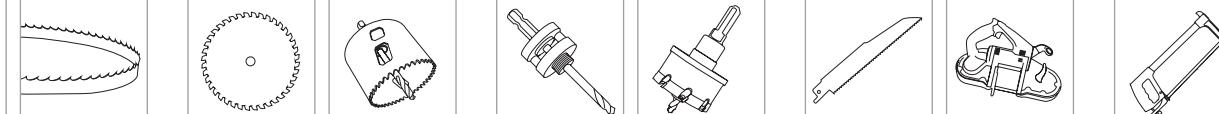
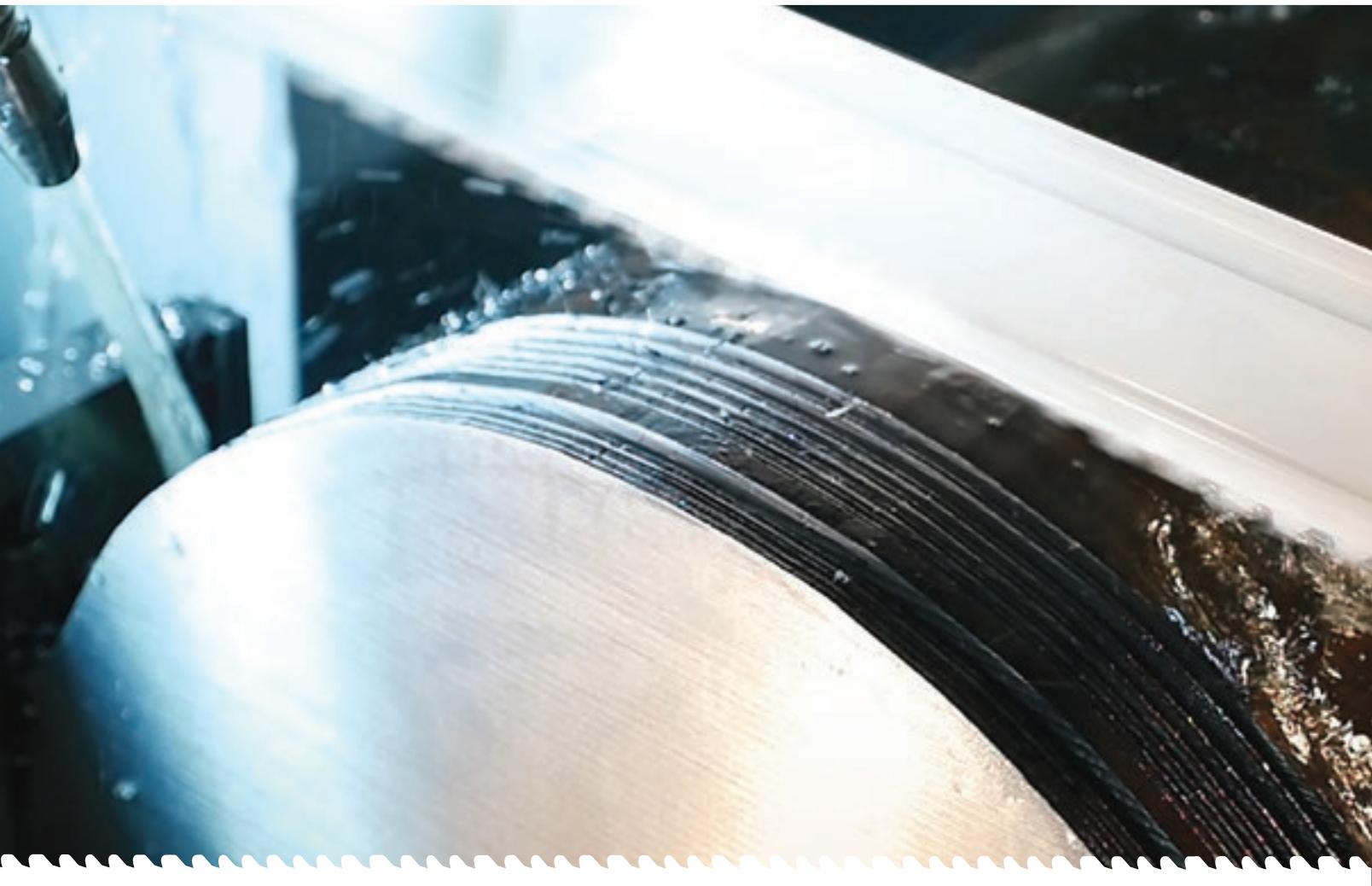




PRODUCT CATALOG





MORSE[®]



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THE M. K. MORSE COMPANY



OUR HERITAGE

For more than 50 years The M. K. Morse Company has been manufacturing and marketing a wide range of innovative cutting solutions. Our product performance is state of the art, but it's our unmatched service that makes us your best source for saw blades.

Whether you need to drill holes or cut metal on a job site, or saw metal in a factory, Morse has the right blade for the job. And our team of experienced field technicians can help you get the most from our blades on your equipment.

Available in more than 70 countries, nearly all Morse products are manufactured in Canton, OH, USA. Together with our distribution partners and weld centers we make sure that customers get the right product when they need it.

As a second-generation family-owned business, we take pride in providing solutions for our customers. Our team is focused on saw blades, and we work relentlessly to improve the design, manufacture, service and support for these products. Our primary goal is to succeed together, with you, our valued customers.

NOT ALL BLADES ARE CREATED EQUAL

At Morse, we are inspired by the belief that there is always a better way to cut. Our team of researchers, including engineers and material scientists, is the best in the industry. They create and translate innovative ideas into advantaged solutions that deliver the best value for our customers. We apply the same discipline to improve the precision and efficiency of our manufacturing processes so we can deliver the consistency and reliability our customers demand.

We proudly support our customers, from steel service centers and forging operations serving the aerospace industry to contractors, fabricators, plumbers and electricians. And the innovations we create for one application provide insights that help us improve others. We accept the challenge to get better every day.

EXPERIENCE THE MORSE DIFFERENCE

Innovative products are great, but they don't do you any good if you can't get them when you need them. Recognized for the highest levels of service in the industry, you can count on Morse to deliver. Offering next day/2-day shipment for weld-to-length band saw blades and same day/next day shipment for power tool accessories, Morse consistently delivers over 98% on-time and complete.

We also understand that the more you know about sawing and saw blades, the better we can work together. Over the years we have developed and refined product specific training programs that help our customers succeed. We regularly host groups from around the world for immersive, hands-on learning experiences. Participants walk away with the knowledge, tools and confidence they need to be even more successful.

Plus, technical support is available from Morse when and where you need it. On-site support is available through Regional technical experts in North America, Europe and Asia. And as always, phone support is available from our headquarters in Canton, OH.

If you've been a Morse customer for some time, we thank you for your business. If you're considering Morse, we look forward to working together with you to get the most out of your cutting operations.

Thank you for the opportunity to serve you. And happy sawing!



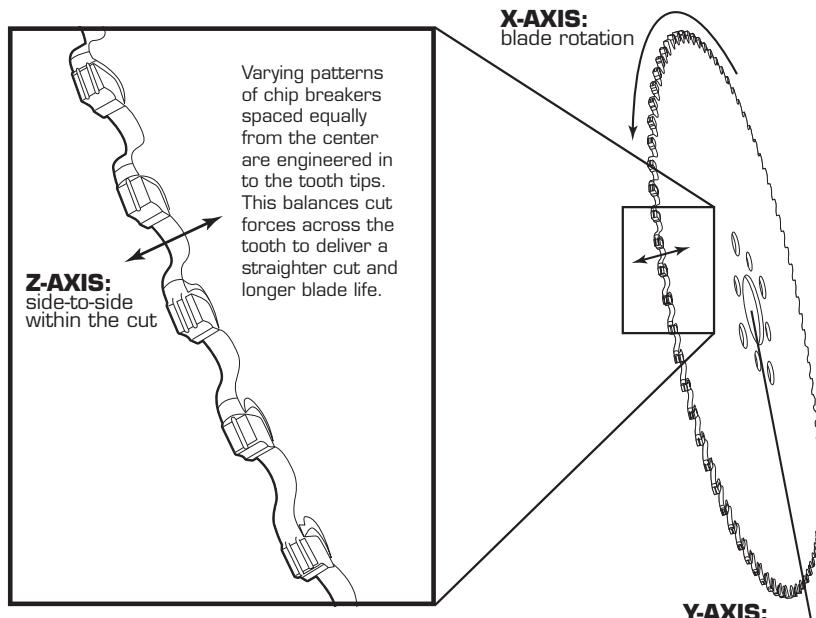
CUTTING TECHNOLOGIES

At Morse, we believe there is always a better way to cut. We are committed to consistently offer leading-edge solutions to our customers. Our research team is focused on cutting improvements, with benefits that extend beyond the blade.



Cutting forces are generated from the cutting motion of the blade (x axis), the rate of the feed (y axis) and the side-to-side action of the teeth within the cut (z axis). Blades with Morse Z Balance Technology eliminate the side forces in the z axis. The effect is a straighter cut and reduced heat and wear, resulting in longer blade life. You can see the difference by the smaller chips produced by Revolution FS blades.

**Up to 30%
Longer Blade Life**



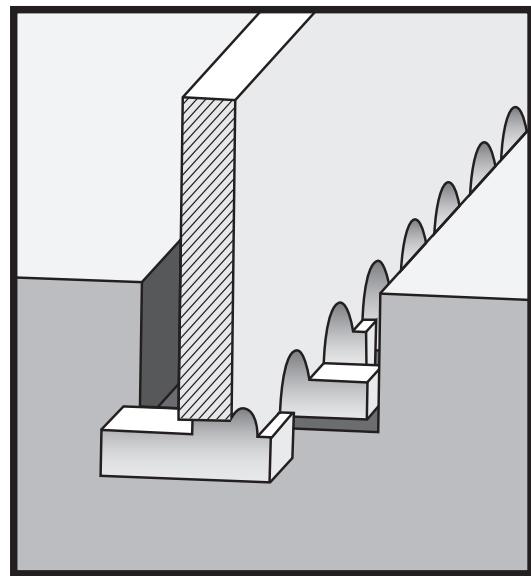
Morse Z Balance Technology is featured on: **REVOLUTION FS**

KERFLOCK™ TECHNOLOGY

Most band saw blades create the kerf by bending the teeth side to side. Premature tooth wear can result as the bend relaxes through the life of the blade. With dual-patented Kerflock technology, the teeth are not bent. The kerf is created by precision grinding the tips to a tolerance twice as tight as those used for set tooth blades. This results in a constant kerf that minimizes side-to-side forces, reducing tooth wear and extending blade life. It also prevents pinching that can occur as the blade moves through the material.

Up to 25% Longer Blade Life

Morse Kerflock™ Technology is featured on:



CUTTING TECHNOLOGIES



Engineered in to the blade, SPARC® technology employs a vibration assisted cutting action. This technology creates a rocking motion so tips move from cutting the material to rising out of the cut and then back in to the material. This extends the size range a blade can cut when compared to the same blade without the technology. It also allows for higher feed rates, cutting faster to deliver higher production. Extended blade life is another benefit of this technology.

Up to 25% Larger Material

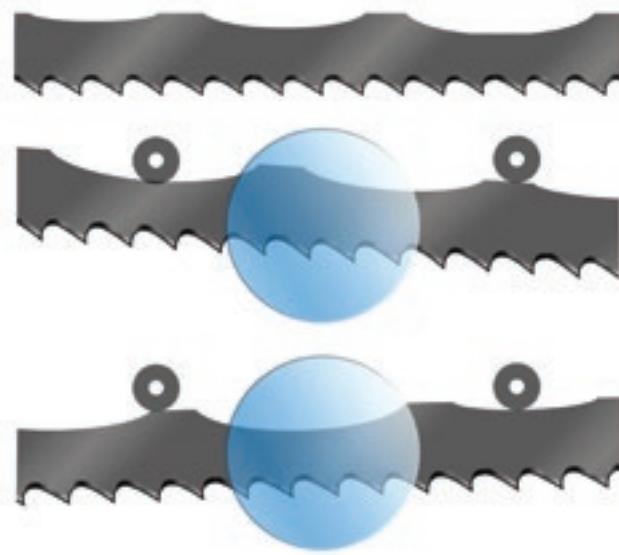
can be cut with the same blade

Up to 20% Faster Cutting

Up to 20% Longer Life

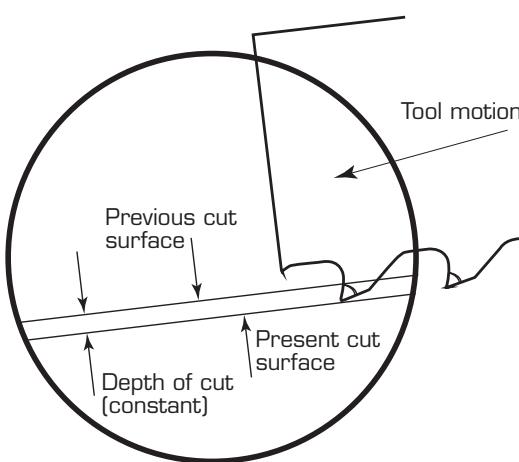
Morse SPARC® is available as an option
on the following band saw blades

- ▼ M-Factor® GES
- ▼ M-Factor® GP
- ▼ Independence® EXS
- ▼ Independence® II
- ▼ Maverick®

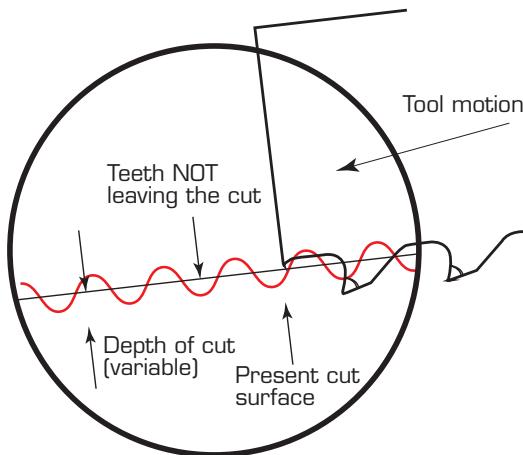


Exaggerated to illustrate blade feature and cutting action.

NO BACK EDGE



SPARC® CUTTING ACTION

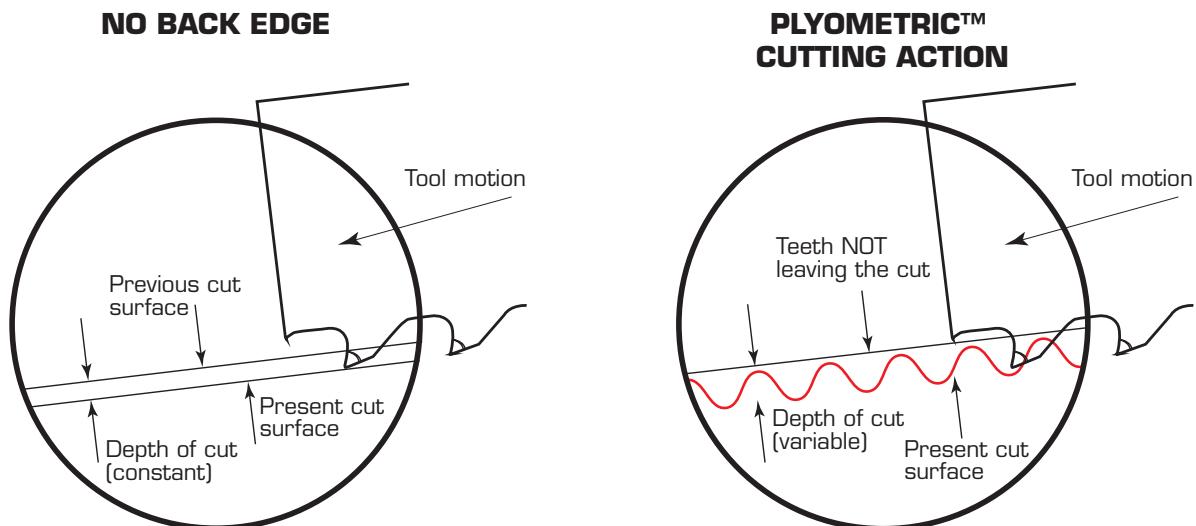




Up to 50% Faster Cutting
Up to 50% Longer Blade Life

Engineered into the blade, patent pending Morse Plyometric Cutting Action employs vibration assisted cutting technology that is optimized for the specific tooth design of each blade. With this technology the tips stay engaged in the material while cut angles change dynamically. This allows higher feed rates for faster cutting and higher production, particularly in hard-to-cut materials. And by optimizing how each tooth engages the material being cut, it reduces wear, extending blade life. Finally, this technology is optimized for full speed cutting, so blades should not be broken in.

**Morse Plyometric™ cutting action
is featured on:**





INDUSTRIAL BAND SAW BLADES

Blade Type Application

Metal

Carbide Tipped

Blades optimized for fastest cutting and longest life cutting super alloys, stainless steels and alloy steel.

Bi-Metal

Highly fatigue resistant to eliminate premature breakage. Excellent in solid tool steels and small to medium stainless and nickel based alloys.

Wood

Carbide Tipped

Specially designed for fine-finish wood cutting in applications such as hardwood flooring, millwork and musical tonewoods.

Bi-Metal

Ideal for timber, wood production cutting and general purpose cutting of low alloy/non-ferrous metals.

Carbon

Designed for production cutting of wood, wood composites and general purpose cutting of low alloy steel and non-ferrous metals.

Specialty

Carbide Grit

Ideal for cutting ceramics and other materials that are too hard or abrasive for standard bi-metal blades, tungsten carbide grit blades provide superior wear resistance.

Pallet

Specially designed to cut through pallet nails and staples when used on pallet machines.

Blade Selection for Metal Cutting		Carbide Tipped				Bi-Metal				
Category	Type	Premium	M-FACTOR®	Premium	Structural	M42	Matrix II			
		Jawbreaker®	GES GP CH FB+ FBS	Independence® EXS Independence® II Maverick® The Morse Achiever® 0° Rate	Challenger®	Positive Rake 6° Rake 0° Rate	Straight Pitch – Wavy Straight Pitch – Hook	Positive Rake 0° Rake		
ABRASIVE WOODS	Abrasive Woods									
ALUMINUM	Castings									
COPPER ALLOYS	Beryllium									
	CDA 220									
	CDA 360									
	70-30 Copper Nickel									
CARBON STEEL	1030									
	1035									
	1080									
	1095									
	932									
	937									
BRONZE ALLOYS	Aluminum Bronze 865									
	AMPCO 18									
	AMPCO 21									
	AMPCO 25									
	Leaded Tin Bronze									
BRASS ALLOYS	Cartridge / Red Brass (85%)									
	Naval Brass									
CAST IRON	A48 (Class 20-20ksi)									
	A48 (Class 40-40ksi)									
	A48 (Class 60-60ksi)									
	A536 (120-90-02)									
	A536 (60-40-18)									
CASE HARDENED	Case Hardened									
	5045, 5046									
CHROME ALLOY STEELS	5120, 5135									
	5140, 5160									
	6117, 6120									
CHROME MOLY STEEL	4150H									
	41L50									
COMPOSITES	Composites									
	A10									
DIE STEEL	D2, D3, D4									
	D7									
	O1, O2									
	O6, O7									
FREE MACHINING STEEL	12L14									
GRAPHITE	Graphite									
HOT WORK STEEL	H-11, H-12, H-13, H-13 Mod, H-21									
	H-22, H-24, H-25									
LOW ALLOY STEEL	L-6									
	L-7									
NICKEL BASED ALLOYS	Hastelloy B									
	Inconel 625-x-750									
	Inconel 718									
	K-R-Monel									
	Monel									
	Waspalloy									
	Nimonic 75									
	Nimonic 90									
	NI-SPAN-C 962, Rene 41									
	Nonel R									
	Rene 88									
	2317									
	2330, 2345									
	2512, 2517									
	Inconel 617									
	Duranickel									
MOLD STEELS	P-20									
	P-3									
NICKEL MOLY STEEL	4640									
TITANIUM ALLOYS	TI-6Al-4V									
	99% PURE TITANIUM									
	CP Titanium									
	MST-GAL 4V									
	TI-140 A 2CR- 2MO, TI-150A									
	TI-4 AL-4 MO									
WATER HARDENING STEEL	W1									
	15-5 PH									
	17-4 PH									
	201, 202, 302, 304									
	303, 303F									
	308, 309, 310, 330									
	314, 316, 317									
	321, 347									
	410, 420, 420F									
	416, 430F									
	430, 446									
	440 A, 440 B, 440 C, 440									
STAINLESS STEEL	440 F, 443									

■ = PRIMARY USE
■ = SECONDARY USE
■ = MAY ALSO CUT

METAL CARBIDE TIPPED

Do NOT
Break In

JAWBREAKER™

FEATURING EXCLUSIVE
PLYOMETRIC™
CUTTING ACTION
WITH
KERFLock™
TECHNOLOGY

JAWBREAKER™

MORSE

JAWBREAKER™

LARGE BILLET PRODUCTION CUTTING

Featuring patent pending Morse™ Plyometric™ cutting action together with patented Morse™ KerfLock™ technology, Jawbreaker sets a new benchmark for band saw blade performance. Designed for production cutting of large billets of superalloys and other very hard to cut materials, Jawbreaker™ delivers higher feed rates and longer blade life. And Jawbreaker blades should not be broken in, so there's no need to slow down after a blade change. If you need more capacity and higher production, Morse™ Jawbreaker™ is the answer.

Pat. No. 10,279,408

Users: Forging, Steel Mills, Steel Service Centers, Machine Shops, Test Labs

Application: Alloy steels, Duplex alloys, Hardened Steel alloys, Nickel chrome moly steel, Stainless steels, Superalloys, Titanium alloys, Tool & die steels

Feature	Benefit	Value
Patent Pending Morse™ Plyometric™ Cutting Action	Up to 30% faster cuts Up to 2.5x longer blade life Reduces work hardening	Increases cutting capacity Lowers operating cost No blade break in Reduces blade inventory
Patented Morse™ KerfLock™ precision ground kerf	Consistent kerf through the life of the blade.	Prevents pinching Extends blade life Improved finish
Three optimized tooth designs	Cuts solids and thick wall shapes from 6" to 49" / 0.15 m – 1.25 m Cut materials from 28 to 65 HRC	Performs in the hardest to cut materials and sizes

Width x Thickness		TPI	
in	mm	.75/1	1.5/2
2 x .063	54 x 1.60	▼	▼
2 1/8 x .063	67 x 1.60	▼	▼
3 x .063	80 x 1.60	▼	▼

Operating Parameters:

- ▼ For optimal performance, Jawbreaker blades must be run at higher feed rates
- ▼ **DO NOT BREAK IN** Jawbreaker™ blades
- ▼ Please refer to the Morse Blade Wizard for recommended feeds and speeds for materials being cut



BladeWizard.com



For optimal performance
DO NOT BREAK IN M-Factor® GES blades

M-FACTOR® GES

GENERAL EXOTIC SPECIALTY

Featuring patented Kerflock™ Technology this blade is designed specifically for exotic material and ferrous steel, with particular emphasis on thick wall and solid billet applications, for exceptionally long life.

Pat. No. 10,279,408

Users: Steel service centers, forging operations, specialized manufacturing

Application: All stainless steels, difficult to cut alloy steels, tool steels, titanium, nickel based alloys, Hastelloy, Inconel, Monel

Feature	Benefit	Value
Multi-chip tooth pattern	Reduces material build up on the tooth Reduces blade stress	Blade longevity
Precision Ground Carbide Teeth	Reduced vibration, heat and noise Energy focused on cutting	Greater efficiency in the workplace
High performance materials	Excellent fatigue life, wear life, and performance	Increased productivity
Patented Morse™ KerfLock™ precision ground kerf	Consistent kerf through the life of the blade.	Prevents pinching Extends blade life

in Width x Thickness mm	.75/1	1.5/2	TPI	2/3	3/4
-----------------------------------	-------	-------	-----	-----	-----

		Variable			
1 1/4 x .042	34 x 1.10			▼	▼
1 1/2 x .050	41 x 1.30		▼▼	▼	▼
2 x .063	54 x 1.60	▼	▼▼	▼▼	▼
2 5/8 x .063	67 x 1.60	▼▼	▼▼	▼	
3 x .063	80 x 1.60	▼▼	▼		

▼ Wide Kerf



For optimal performance
DO NOT BREAK IN M-Factor® GP blades

M-FACTOR® GP GENERAL PURPOSE

Specially designed for any small billet (<12", 30.5cm) ferrous steel applications for long life.

Users: Steel service centers, forging operations, general manufacturing

Application: Alloy steels, stainless steels (lower grades)

Feature	Benefit	Value
Longer blade life than bi-metal	Fewer blade changes Reduced downtime	Increased productivity Reduced cost per cut
Versatility	Reduced downtime and blade changes	Greater efficiency in the workplace

in Width x Thickness mm	.75/1	1.5/2	TPI	2/3	3/4
-----------------------------------	-------	-------	-----	-----	-----

		Variable			
1 x .035	27 x 0.90			▼	▼
1 1/4 x .042	34 x 1.10	▼	▼	▼	▼
1 1/2 x .050	41 x 1.30		▼	▼	▼
2 x .063	54 x 1.60	▼	▼	▼	
2 5/8 x .063	67 x 1.60	▼	▼	▼	
3 x .063	80 x 1.60	▼	▼		

METAL CARBIDE TIPPED



For optimal performance
DO NOT BREAK IN M-Factor® CH blades

M-FACTOR® CH CASE HARDENED

Designed for long life and fast, smooth cutting of chrome plated, case hardened hydraulic shaft specifications (<12", 30.5cm).

Users: Steel service centers, automotive parts makers, cylinder and bearing manufacturers

Application: Hydraulic shafts, case hardened shafts and shapes, heat treated thick wall tubing

Feature	Benefit	Value
Cuts hard to cut materials	Longer blade life	Fewer blade changes Reduced downtime
Versatility	Reduced downtime and blade changes	Greater efficiency in the workplace

Width x Thickness				
in	mm	2/3	3/4	3
1 x .035	27 x 0.90		▼	▼
1 1/4 x .042	34 x 1.10		▼	▼
1 1/2 x .050	41 x 1.30	▼	▼	
2 x .063	54 x 1.60	▼		



For optimal performance
DO NOT BREAK IN M-Factor® FB+/FBS blades

M-FACTOR® FB+ AND FBS FOUNDRY

Exceptional long life and fast cutting of abrasive and non-ferrous materials. Foundry blades available in Triple Chip and Set Tooth (FBS).

Users: Aluminum foundries, graphite manufacturers, furniture makers

Application: Aluminum castings (gates, risers, extrusions), Abrasive woods plywood

Feature	Benefit	Value
Multi-chip tooth pattern	Reduces material build up on the tooth Reduces blade stress	Blade longevity
Width x Thickness	TPI	3 SET
in	mm	
1/2 x .025	13 x 0.60	▼
3/4 x .035	19 x 0.90	▼
1 x .035	27 x 0.90	▼
1 1/4 x .042	34 x 1.10	▼

METAL BI-METAL

Independence EXS

Independence® EXS
Made In USA

INDEPENDENCE® EXS

HIGH PRODUCTION BI-METAL

This premium blade is the best choice for high production solid applications.

Users: Steel service centers, production cutting fabrication shops, general manufacturing

Applications: High production cutting, large solids, stainless steels, exotics

Feature	Benefit	Value
Unique tooth geometry	Superior wear, heat and shock resistance	Fewer blade changes Reduced downtime
Premium materials – tooth edge and backer	Blade longevity	Increased productivity

Width x Thickness		TPI				
in	mm	1/1.5	1.5/2	2/3	3/4	4/6
1 x .035	27 x 0.90			▼	▼	▼
1 1/4 x .042	34 x 1.10			▼	▼	▼
1 1/2 x .050	41 x 1.30		▼	▼	▼	
2 x .063	54 x 1.60	▼	▼	▼	▼	



METAL BI-METAL



INDEPENDENCE® II

HIGH PRODUCTION BI-METAL

While cutting almost anything, this blade is highly fatigue-resistant to eliminate premature breakage.

Users: Steel service centers, production and job shops, fabrication shops, general manufacturing

Applications: High production cutting, solids of tool steel (A2, D2, S7, etc.), small to medium solids of stainless (304, 316, 17-4), nickel based alloys (Inconel, Monel), all machineable metals in single pieces or bundles

Feature	Benefit	Value
Versatility	Cuts a variety of different materials to reduce blade changes	Increased production, efficiency
Premium materials – tooth edge and backer	Blade longevity	Increased productivity

Width x Thickness		TPI	Variable			
in	mm	2/3	3/4	4/6	5/7	
1 x .035	27 x 0.90	▼	▼	▼	▼	
1¼ x .042	34 x 1.10	▼	▼	▼	▼	
1½ x .050	41 x 1.30	▼	▼	▼	▼	
2 x .063	54 x 1.60	▼	▼	▼	▼	



MAVERICK®

MAVERICK® PRODUCTION

Featuring a patent pending blade design, Maverick performs in both production and job shop environments and is successful with the occasional structural workpiece.

* Maverick is designed to optimize blade longevity at targeted speeds. Running Maverick at increased speeds may reduce blade life benefits.

Users: Production facilities, job shops, fabrication and steel service centers

Application: Mild steels, stainless steels, tool steels, occasional structural workpiece

Feature	Benefit	Value
Longer blade life	Fewer blade changes Reduced downtime	Increased productivity Reduced cost per cut
Versatility	Reduced downtime and blade changes	Greater efficiency in the workplace
Blade harmonics	Energy concentrated on cutting	Reduced noise levels for operations Better blade performance

Width x Thickness		.75/1.1	1.1/1.5	1.4/2.5	TPI 1.5/2	2/3	3/4	4/6	5/7
in	mm								
Variable									
1 x .035	27 x 0.90					▼	▼	▼	▼
1½ x .042	34 x 1.10					▼	▼	▼	▼
1½ x .050	41 x 1.30			▼		▼	▼	▼	
2 x .063	54 x 1.60			▼		▼	▼		
2 ½ x .063	67 x 1.60	▼	▼		▼	▼	▼		
3 x .063	80 x 1.60	▼	▼						

METAL BI-METAL

THE MORSE ACHIEVER®

THE MORSE ACHIEVER® PRODUCTION

Consistently reliable with excellent durability in mild to difficult materials – layer and bundle cuts and large profiles and solids.

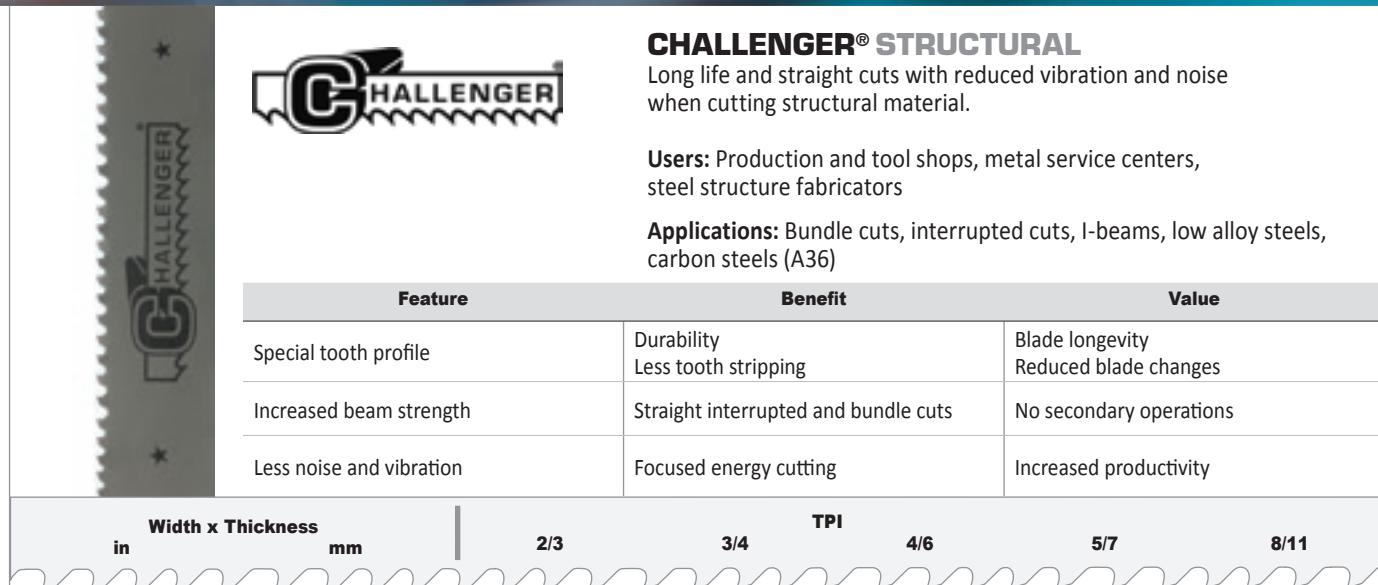
Users: Production and tool shops, fabrication

Applications: Production cutting, material range from carbon to stainless steel (1018, 4140, 4340, tool and stainless steels).

Feature	Benefit	Value
0° rake offering	Cuts structural applications/thin wall pieces	Handles vibration and interruptions; greater productivity
Finer tooth pitches	Cuts smaller diameter and thin walled materials	Product selection to match specific needs

Width x Thickness in mm	3/4	4/6	5/8	TPI	6/10	8/12	10/14
Variable Pitch - 0° Rake							
1 x .035 | 27 x 0.90		▼	▼		▼	▼	▼
1 1/4 x .042 | 34 x 1.10	▼	▼			▼		





CHALLENGER® STRUCTURAL

Long life and straight cuts with reduced vibration and noise when cutting structural material.

Users: Production and tool shops, metal service centers, steel structure fabricators

Applications: Bundle cuts, interrupted cuts, I-beams, low alloy steels, carbon steels (A36)

Feature	Benefit	Value
Special tooth profile	Durability Less tooth stripping	Blade longevity Reduced blade changes
Increased beam strength	Straight interrupted and bundle cuts	No secondary operations
Less noise and vibration	Focused energy cutting	Increased productivity

Width x Thickness	TPI	2/3	3/4	4/6	5/7	8/11
in	mm					
1/2 x .025	13 x 0.64					▼
3/4 x .035	19 x 0.90				▼	▼
1 x .035	27 x 0.90		▼	▼	▼	▼
1 1/4 x .042	34 x 1.10		▼▼	▼▼	▼	▼
1 1/2 x .050	41 x 1.30	▼▼	▼▼	▼▼	▼	▼
2 x .063	54 x 1.60	▼▼	▼▼	▼▼		
2 5/8 x .063	67 x 1.60	▼▼	▼▼	▼		

▼ Wide Kerf



METAL BI-METAL



M42 PRODUCTION & MRO

Durability for higher production speeds on difficult to machine materials.

Users: Production, tool, fabrication, maintenance shops, specialty shops, steel service centers

Application: Solids, heavy walled structures, carbon steels, alloy steels, some stainless steels, medium-to-heavy production machines

Feature	Benefit	Value
Durability	Blade longevity	Reduced blade changes / Reduced downtime
Versatility	Cuts a variety of materials	Reduced blade changes / Increased productivity
Variable, straight tooth pitches	Address a variety of applications	Increased productivity
Positive rake offering	Used primarily to cut solids	Designed for optimal performance
0° rake offering	Cuts structural and thin walled materials	Designed for optimal performance
Straight pitch, often finer tooth pitches	Cuts materials with consistent cross-sectional size ranges, thin materials, hand fed materials	Designed for optimal performance

Width x Thickness		TPI				
in	mm	2/3	3/4	4/6	5/7	
% x .035	19 x 0.90			▼		
1 x .035	27 x 0.90	▼	▼ ▲	▼ ▲	▼	
1½ x .042	34 x 1.10	▼	▼ ▲	▼ ▲	▼	
1½ x .050	41 x 1.30	▼	▼ ▲	▼ ▲		
2 x .050	54 x 1.30		▼			
2 ½ x .063	67 x 1.60	▼	▼			

▼ Available with 6° rake angle

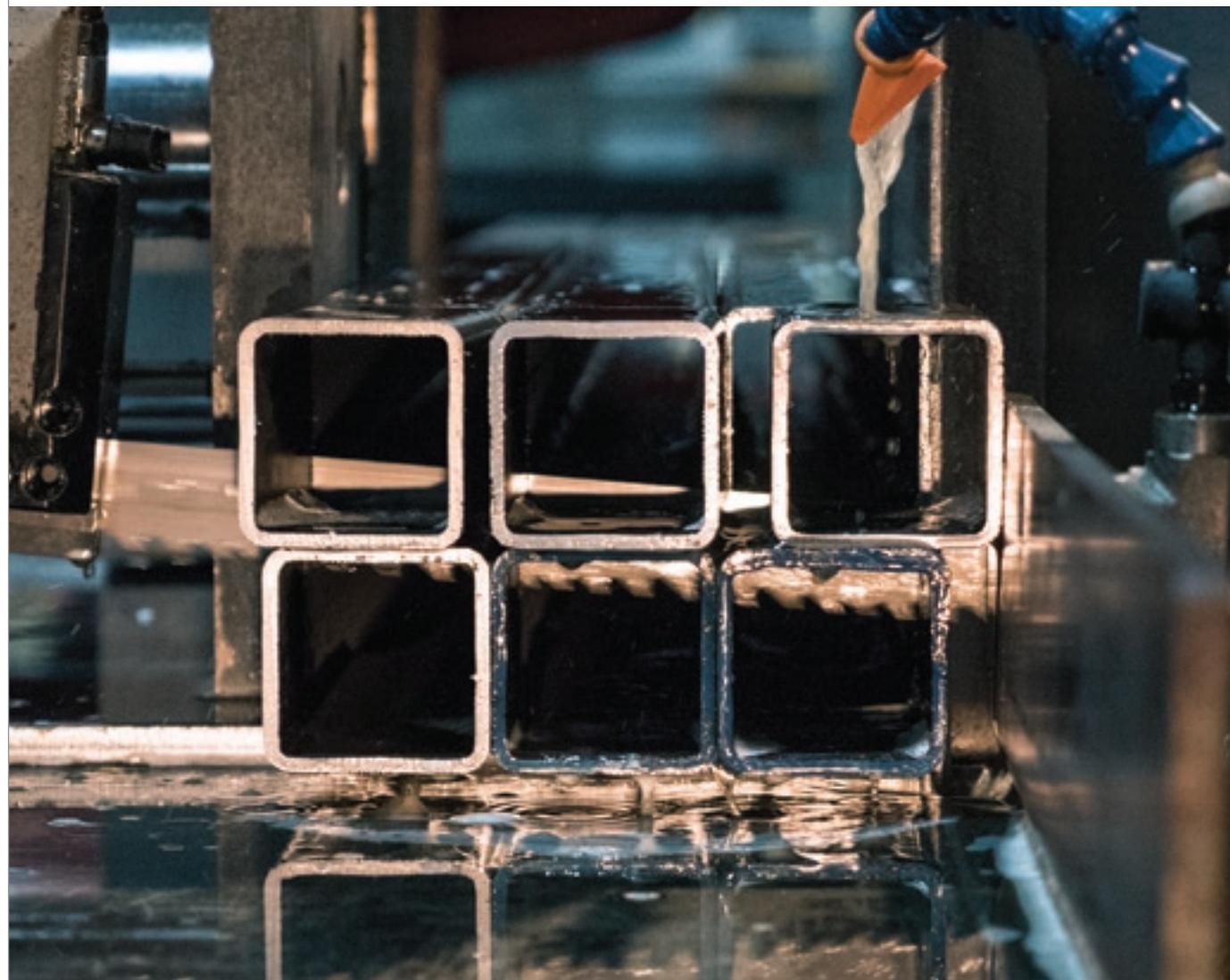
Width x Thickness		TPI					
in	mm	3/4	4/6	5/8	6/10	8/12	10/14
¼ x .025	6 x 0.64						▼
¼ x .035	6 x 0.90						▼
½ x .025	13 x 0.64				▼		
½ x .035	13 x 0.90						▼
¾ x .035	19 x 0.90		▼	▼	▼	▼	▼
1 x .035	27 x 0.90	▼	▼	▼	▼	▼	▼
1½ x .042	34 x 1.10	▼	▼	▼		▼	
1½ x .050	41 x 1.30	▼	▼	▼			

MORSE

M42

Made in USA

Width x Thickness		TPI					
in	mm	10	14	1	1.14	2	4
		Raker			Hook		
1/4 x .035	6 x 0.90	▼					
5/8 x .035	9 x 0.90					▼	
1/2 x .035	13 x 0.90		▼				▼
1 x .035	27 x 0.90					▼	
1 1/4 x .042	34 x 1.10				▼		
2 x .050	54 x 1.30			▼			



METAL BI-METAL

MATRIX II

MATRIX II

MATRIX II PRODUCTION & MRO

Matrix II blades are ideal for cutting materials with easy to moderate machinability.

Users: Maintenance and fabricating shops

Applications: Carbon steels, structural steels – A36, single piece, bundles, stacked pieces, interrupted cuts (pipe and tubing, angle and channel, small and medium band saw machines)

Feature	Benefit	Value
Large portfolio selection	Positive rake, 0°, or straight pitch available	Meets all of your needs
Variable pitch, positive rake	Cuts solids and reduces vibration	Provides optimal performance
Variable pitch, 0°	Cuts structural applications/thin wall pieces	Designed for optimal performance in specific applications
Straight pitch, finer tooth pitches	Cuts materials with consistent cross sectional size ranges, thin and hand fed materials	Designed for optimal performance in specific applications

Width x Thickness		TPI	
in	mm	3/4	4/6

Width x Thickness		Variable Pitch - Positive Rake							
in	mm	4/6	5/8	6/10	8/11	8/12	10/14	12/16	14/18
¾ x .035	19 x 0.90	▼					▼		▼
1 x .035	27 x 0.90	▼					▼		▼
1¼ x .042	34 x 1.10						▼		

Width x Thickness		Variable Pitch - 0° Rake							
in	mm	4/6	5/8	6/10	8/11	8/12	10/14	12/16	14/18
½ x .020	13 x 0.50				▼		▼	▼	▼
½ x .025	13 x 0.64			▼		▼	▼		▼
½ x .035	13 x 0.90						▼		
¾ x .035	19 x 0.90		▼			▼	▼		
1 x .035	27 x 0.90	▼	▼	▼		▼	▼		
1¼ x .042	34 x 1.10		▼	▼					

Width x Thickness		Straight Pitch								1.14	3	4
in	mm	6	8	10	14	18	14	18	24	1.14	3	4
Raker		Wavy								Hook		
⅜ x .025	9 x 0.64											▼
½ x .020	13 x 0.50			▼			▼	▼	▼			
½ x .025	13 x 0.64	▼			▼	▼				▼	▼	
¾ x .035	19 x 0.90		▼	▼	▼						▼	
1 x .035	27 x 0.90			▼								
1¼ x .042	34 x 1.10									▼		



M42 BI-METAL DIE BAND BLADES

Designed for cutting solids with very low machinability including the toughest machinable materials.

Users: Tool and Die shops, also vertical band saw machines

Applications: Die blocks, tool steels, "D" grade steels, "Super" alloys, Inconel, Waspalloy, Hastelloy, tough materials

Feature	Benefit	Value
High heat and wear resistance	Production cutting ability	Fewer blade changes
Wide selection of blades	Tooth pitches, blade sizes to meet user needs	Increased productivity
Suited for difficult-to-cut materials	Versatility	Increased productivity

Width x Thickness
In mm 8/12 10/14 TPI
mm 10 14 4

	Variable	Raker	Hook
1/4 x .025	6 x 0.64	▼	
1/4 x .035	6 x 0.90	▼	▼
3/8 x .035	9 x 0.90		▼
1/2 x .025	13 x 0.64	▼	
1/2 x .035	13 x 0.90	▼	▼

MATRIX II

MATRIX II BI-METAL DIE BAND BLADES

Designed for cutting solids with very low machinability including the toughest machinable materials.

Users: Tool and Die shops, and vertical band saw machines

Applications: Die blocks, tool steels, "D" grade steels, tough materials

Feature	Benefit	Value
Economic option for low machinable materials	Blade durability	Low cost-per-cut Reduced blade changes Reduced downtime
Straight and variable tooth pitch options	Address a variety of applications	Increased productivity
High shock resistance	Better suited for thinner sections	Reduced blade changes Increased productivity

Width x Thickness
In mm 6/10 8/12 TPI
mm 10 14 18 4

	Variable	Raker	Hook
1/2 x .025	13 x 0.64	▼	▼

SPECIALTY GRIT

TUNGSTEN CARBIDE GRIT

TUNGSTEN CARBIDE GRIT

Ideal for cutting ceramics and other materials that are too hard or abrasive for standard bi-metal blades.

Users: Construction, glass and abrasive manufacturing, fabricators

Applications: Fiberglass, ceramics, cast iron, graphite, tires and wire reinforced rubber, cable and wire rope, brittle materials or surfaces that chip

Feature	Benefit	Value
Very smooth finish	No secondary operations	Greater productivity
Reversible, superior wear resistance	Extends blade service life	Increased blade life
Two different cutting edges	Continuous – for 1) brittle materials 2) thin materials that chip (<1/4" or 6.4mm) Gulleted – for 1) larger walled materials and <td>Increased productivity for the specific applications</td>	Increased productivity for the specific applications
Different grit finishes	Medium – for 1) thin materials 2) fine finishes Coarse – for 1) thick materials	

Width x Thickness in mm	Gulleted			Continuous		
	Medium	Medium Coarse	Coarse	Medium	Coarse	
1/4 x .020	6 x 0.50	▼			▼	
5/8 x .025	9 x 0.64	▼	▼			
1/2 x .025	13 x 0.64	▼	▼		▼	
3/4 x .032	19 x 0.80	▼		▼		
1 x .035	27 x 0.90	▼	▼	▼	▼	▼
1 1/4 x .042	34 x 1.10			▼		



WOOD CARBIDE TIPPED



QUIKSILVER® CT

CARBIDE TIPPED WOOD CUTTING

Specially designed for fine-finish wood cutting applications.

Users: Flooring production, mills, construction, fabricators, specialty shops

Applications: Hardwood flooring, millwork, musical tonewoods, MDF, other specialty wood cutting

Feature	Benefit	Value
Triple chip tooth design	Smooth finish	Eliminates secondary operations like sanding
Carbide tipped	Long blade life	Increased productivity
Cuts hard exotic woods	Versatility in cutting materials	Blade flexibility

Width x Thickness		TPI	
in	mm	.75/1	1.5/2.0
Carbide Tipped		Variable	
1½ x .050	41 x 1.30		▼
2 x .042	54 x 1.10	▼	



WOOD BI-METAL



QUIKSILVER® B1/B2

B1 – Commonly used for softwood to semi-hard wood
(Pine, ash, poplar)

B2 – Commonly used for hard wood
(Oak, walnut, cherry, maple)

BI-METAL WOOD CUTTING

Designed for wood based material production cutting.

Users: Vertical and horizontal resaw machines, portable saw mills, contour cutting on vertical machines

Applications: wood , Low alloy ferrous and non-ferrous metals

Feature	Benefit	Value
Bi-metal construction	Longer lasting blade	Greater productivity
High heat and wear resistance	Increased blade life	Fewer blade changes, down time
B1 – blade for soft wood to semi-hard wood	Cuts Pine, Ash, Poplar	Designed for optimal performance in specific application
B2 – blade for hardwood	Cuts Oak, Walnut, Cherry, Maple	Designed for optimal performance in specific application



Bi-Metal	Variable	Hook
QuikSilver B1 Production / Wood Mill		
1 1/4 x .042	34 x 1.10	▼
QuikSilver B2 Production / Wood Mill		
1 1/4 x .042	34 x 1.10	▼
2 x .050	54 x 1.30	▼

▼ 1.14 Hook = 7/8" (22mm) Tooth Spacing

WOOD CARBON

QUIKSILVER® HEF/HB

HEF/HB WOOD MILL

Blades are manufactured from a single piece of high carbon steel with individually hardened tooth tips.

Users: Portable and stationary wood mills, single and multi-head resaw systems, Scragg mills

Applications: Wood cutting

Feature	Benefit	Value
Flex back and hard back options	Customize blade to your needs	Meets all of your needs
Flex back blades are more fatigue resistant	Longer blade life	Increased productivity
Hard back blades are more rigid	Offers straighter cuts	Provides optimal performance
Can be resharpened	Longer tooth life	Increased blade life

Hard Edge Flex Back - (HEF)

Width x Thickness
in mm TPI

1.14

1.3

2

Hard Edge Hard Back - (HB)

Width x Thickness
in mm TPI

1.3

		Hook		
1 x .035	27x 0.90		▼	▼
1¼ x .035	32 x 0.90		▼	
1¼ x .042	32 x 1.10	▼ ▼	▼	
1½ x .045	38 x 1.10	▼		
2 x .035	51 x 0.90		▼	
2 x .042	51 x 1.10	▼		

		Hook		
1 x .035	27 x 0.90		▼	
1¼ x .035	27 x 0.90		▼	
1¼ x .042	32 x 1.10		▼	

▼ Bright Finish

QUIKSILVER® WMF/WMH

QUIKSILVER® WOOD MILL

One-piece design to minimize blade fatigue.

Users: Wood cutting with increased fatigue resistance

Applications: Wood cutting

Wood Mill Flex Back - (WMF)

TPI

1.14

1.3

2

Hook

		Hook		
1 x .035	27 x 0.90		▼	▼
1¼ x .042	32 x 1.10	▼	▼	

Wood Mill Hard Back - (WMH)

TPI

1.14

1.3

2

Hook

		Hook		
1 x .035	27 x 0.90		▼	▼
1¼ x .042	32 x 1.10		▼	▼
1½ x .045	38 x 1.10	▼		
2 x .042	51 x 1.10	▼		

WOOD CARBON



QUIKSILVER®

QUIKSILVER® FURNITURE BLADES

Blades offer faster cutting while maintaining precision required in the furniture industry.

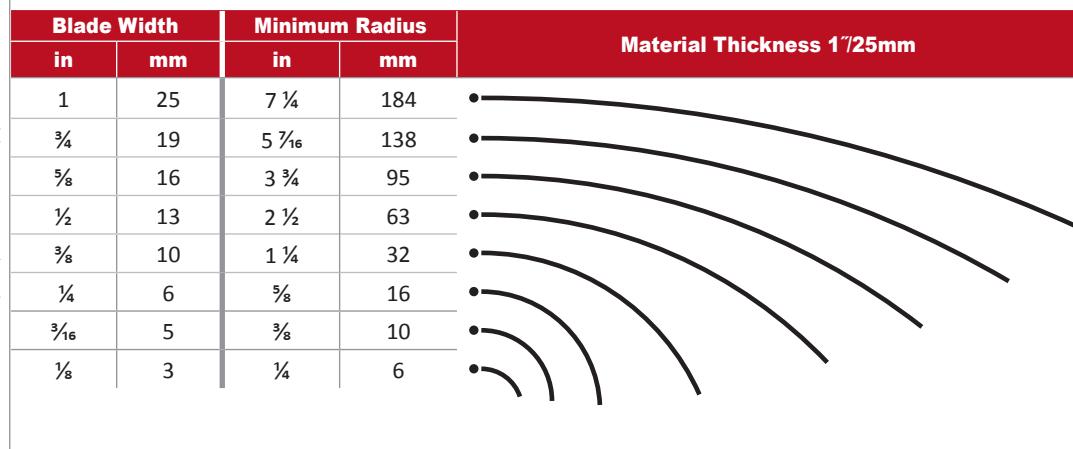
Users: furniture industry, high-speed vertical cutting band saw machines

Applications: Used on large, vertical, high-speed wood cutting machines, wood, chip board, plywood, cardboard

Feature	Benefit	Value
Special ETS (every tooth set) pattern or Hook / Raker pattern. Both with 10° hook tooth design	Longer tooth tip life	Faster cutting
Flexible backer	Fatigue resistance	Increased blade life
Single construction with hardened tooth tips	Longer blade life	Increased productivity

Width x Thickness		TPI					
in	mm	3	4	2	3	4	6
1/4 x .025	6 x 0.64					▼	▼
3/8 x .025	9 x 0.64	▼			▼	▼	▼
5/8 x .032	9 x 0.80	▼	▼				
1/2 x .025	13 x 0.64	▼			▼	▼	▼
1/2 x .032	13 x 0.80	▼	▼				
3/4 x .032	19 x 0.80	▼		▼	▼	▼	▼

Minimum radius cut for a given blade width





QUIKSILVER® HB

QUIKSILVER® HB HARD BACK BLADES

Stiffer blades offer straighter cuts in wood and metal cutting.

Users: Wood cutting, maintenance, short metal production

Applications: Blade speeds <4,000 sfm, wood, plastic, cork, composition board, plywood, low alloy, easy-to-machine ferrous metals, non-ferrous metals (brass/copper, bronze, aluminum, lead)

Feature	Benefit	Value
Single construction with hardened tooth tips	Longer blade life	Increased productivity
Hardened and tempered backer	Straighter cuts with heavier feed pressure than flex back	Greater productivity and efficiency

Width x Thickness		TPI											
in	mm	6	10	14	18	12	14	18	1.3	2	3	4	6
1/4 x .025	6 x 0.64		▼	▼							▼	▼	
5/8 x .025	9 x 0.64			▼							▼	▼	▼
1/2 x .025	13 x 0.64	▼	▼	▼	▼			▼			▼	▼	▼
5/8 x .032	16 x 0.80												▼
3/4 x .032	19 x 0.80	▼	▼	▼		▼	▼				▼	▼	
1 x .035	27 x 0.90	▼	▼	▼					▼	▼	▼		
1 1/4 x .035	32 x 0.90								▼				
1 1/4 x .042	32 x 1.10	▼							▼				

▼ Standard Set - Regular Offset

▼ Wide Kerf Raker

WOOD CARBON



QUIKSILVER® HEF

QUIKSILVER® HEF FLEX BACK BLADES

Designed to be more fatigue resistant than carbon hard back blades.

Users: wood production, short metal production, maintenance, general purpose cutting

Applications: Blade speeds up to 15,000 sfm, wood, plastic, cork, composition board, plywood, aluminum, non-ferrous metals, low alloy steel

Feature	Benefit	Value
Single construction with hardened tooth tips	Longer blade life	Increased productivity
More fatigue resistant than carbon hard back blades	Longer blade life	Optimal performance

Width x Thickness		TPI															
in	mm	6	8	10	14	18	24	18	32	1.14	1.3	2	3	4	6	4	6
		Raker				Wavy		Hook				Skip					
1/8 x .025	3 x 0.64				▼	▼											
1/4 x .025	6 x 0.64			▼	▼	▼						▼	▼	▼	▼	▼	▼
3/8 x .025	9 x 0.64	▼	▼	▼	▼							▼	▼	▼	▼		
1/2 x .020	13 x 0.50			▼													
1/2 x .025	13 x 0.64	▼		▼	▼	▼	▼	▼	▼			▼	▼	▼	▼	▼	▼
5/8 x .032	16 x 0.80											▼	▼				
3/4 x .032	19 x 0.80	▼		▼	▼	▼						▼	▼	▼	▼		
3/4 x .050	19 x 1.30											▼					
1 x .035	27 x 0.90				▼							▼	▼	▼	▼		
1 1/4 x .035	32 x 0.90											▼					
1 1/4 x .042	32 x 1.10							▼	▼								
1 1/4 x .042 *Bright	32 x 1.10									▼							
1 1/2 x .045	38 x 1.14									▼							
2 x .035	51 x 0.90										▼						
2 x .042	51 x 1.10									▼							

▼ Standard Set ▼ Wide Kerf

* "Bright" specifications have an unblued, silver surface finish.

SPECIALTY PALLET



QUIKSILVER® PALLET DISMANTLING

Specially designed to withstand the rough service required on dismantling machines while cutting through pallet nails and staples.

Users: Pallet dismantlers

Applications: All types of band saw pallet dismantling machines, wood with nails / staples

Feature	Benefit	Value
Bi-metal options	Customize blades to your needs	Designed for optimal performance
Special grade carbon steel	Increased, rugged durability	Increased productivity
Straight or Variable pitch options available	Addresses various cutting needs	Provides optimal performance

M42 BI-METAL

Width x Thickness in mm	TPI 5/8
1 1/4 x .042 | 32 x 1.10	▼

MATRIX II BI-METAL

Width x Thickness in mm	TPI 5/8
1 1/4 x .042 | 32 x 1.10	▼

CARBON Hard Back (HB) Special

Width x Thickness in mm	TPI 5/7	TPI 5/8
1 1/4 x .042 | 32 x 1.10	▼	▼



BLADE PART NUMBERS

The M. K. Morse Company uses 10-digit band saw blade part numbers (with a "C" or "R" suffix for coils).

The first 6-digits of the part number identify the material and size specifications. The last 4-digits identify the length of the blade for both weld-to-length bands and coil stock.

The band saw blade part number reference chart below provides the same details we have in-house to configure the new part numbers. Customer Service at M. K. Morse will assist all band saw blade distributors with any cross referencing needed. If you have any questions, please contact your M. K. Morse Customer Service Representative.

1 st and 2 nd Digits		Material/Tooth Set Style	3 rd and 4 th Digits	Blade Width	5 th and 6 th Digits	Tooth Count		
Part #	Material Type	Set Style	Part #	Width x Thickness	Part #	TPI		
00	M42	Positive, 6° Rake	10	.25 x .014	00	Carbide Grit		
10	QS HEF Carbon	Hook Raker - Special Extra Heavy Set	11	.375 x .014	01	1		
11	QS HEF Carbon	Hook - Heavy Set	20	.25 x .020	02	2		
13	QS HEF Carbon	Hook - Double Set Raker	21	.50 x .020	03	3		
14	QS HEF Carbon	Wavy	30	.125 x .025	04	4		
15	QS HEF Carbon	Skip	31	.1875 x .025	06	6		
16	QS HEF Carbon	Raker Or Variable Pitch	32	.25 x .025	88	6 w/prot*		
17	QS HEF Carbon	QuikSilver WMF - Hook	33	.375 x .025	08	8		
18	QS HEF Carbon	Hook	34	.50 x .025	10	10		
19	QS HEF Carbon	Hook ETS	40	.25 x .032	12	12		
20	QS HEF Carbon	Bright	41	.375 x .032	13	10 / 14		
26	QS HEF Carbon	Hook - Light Set	42	.50 x .032	14	14		
30	Matrix II	Positive Rake	43	.625 x .032	15	12 / 16		
31	Matrix II	Positive Rake - Heavy Set	44	.75 x .032	16	14 / 18		
33	Matrix II	0° Rake - Heavy Set	50	.25 x .035	18	18		
34	Matrix II	Wavy	51	.375 x .035	22	20 / 24		
36	Matrix II	Raker	52	.50 x .035	23	2 / 3		
38	Matrix II	Hook	53	.625 x .035	24	24		
39	Matrix II	0° Rake	54	.75 x .035	32	32		
40	M42	Positive Rake	55	1 x .035	34	3 / 4		
41	The Morse Achiever	10° Positive Rake	56	1.25 x .035	46	4 / 6		
42	M42	0° Rake	57	2 x .035	57	5 / 7		
43	The Morse Achiever	0° Rake	60	1 x .042	58	5 / 8		
46	M42	Raker	61	1.25 x .042	89	5/8 w/prot*		
47	The Morse Achiever	Variable - 6° Positive Rake	62	2 x .042	68	6 / 10		
48	M42	Hook	63	1.5 x .042	80	8 / 11		
49	The Morse Achiever	Heavy Set	70	1.25 x .045	81	8 / 12		
55	Independence II	Variable Pitch	71	1.5 x .045	91	.75 / 1.1		
57	Independence EXS	Variable Pitch	80	.75 x .050	92	1.4 / 2.5		
59	QS Hard Back Carbon	Hook ETS	81	1.5 x .050	93	1.3		
61	QS Hard Back Carbon	Hook - Heavy Set	82	2 x .050	94	1.14		
63	QS Hard Back Carbon	Hook - Double Set Raker	83	2 x .050**	96	1.1 / 1.5		
64	QS Hard Back Carbon	Wavy	84	1.5 x .055	97	1 / 1.5		
65	QS Hard Back Carbon	Skip	90	2 x .063	98	1.5 / 2		
66	QS Hard Back Carbon	Raker Or Variable Pitch	91	2.625 x .063				
67	QS Hard Back Carbon	QuikSilver WMH - Hook	92	3 x .063				
68	QS Hard Back Carbon	Hook						
70	Tun. Carbide Grit - Continuous	Medium						
71	Tun. Carbide Grit - Continuous	Medium Coarse						
72	Tun. Carbide Grit - Continuous	Coarse						
73	Tun. Carbide Grit - Gulleted	Medium						
74	Tun. Carbide Grit - Gulleted	Medium Coarse						
75	Tun. Carbide Grit - Gulleted	Coarse						
78	Maverick	Positive Rake						
80	M-Factor - Carbide Tipped	Aluminum Foundry (FB+)						
81	M-Factor - Carbide Tipped	Case Hardened (CH)						
82	M-Factor - Carbide Tipped	General Purpose (GP)						
84	M-Factor - Carbide Tipped	GES						
85	M-Factor - Carbide Tipped	Fondry Set (FBS)						
86	M-Factor - Carbide Tipped	GES Wide Set						
87	Morse Jawbreaker	Large Difficult-to-cut Materials						
91	Challenger	Positive Rake						
92	Challenger	Heavy Set						
GA	M-Factor - Carbide Tipped	Wood Production						
Example 1		Previous Part # ZCTNGES23		** Imperial Sized				
Therefore:	M-Factor GES	1.5 x .050	2/3	100' Coil	84	81	23	100C
Is shown as:	84	81	23	100C				
New Part #	848123100C							
EXAMPLE 2		Previous Part # ZWEFH02M42HS		** Imperial Sized				
Therefore:	M42 Straight Pitch Heavy Set	3/4 x .035	2	35' 8-1/2"				
Is shown as:	45	54	02	428				
New Part #	4554024284			(35 x 12 = 420) (420 + 8 = 428)				
7 th , 8 th and 9 th Digits	Blade Length							
Number of feet multiplied by 12 plus additional inches. (Unless using Coil Stock. Coil Length (in feet) + C) If a RANDOM LENGTH coil - use 000R .								
10 th Digit	Fraction of Inch/ Millimeter							
Part #	Inch Length	Part #	mm Length					
0	Even Length	0	Even Length					
1	1/8"	1	3					
2	1/4"	2	6.4					
3	3/8"	3	9.5					
4	1/2"	4	12.7					
5	5/8"	5	16					
6	3/4"	6	19					
7	7/8"	7	22					
C	Coil Stock	C	Coil Stock					
7 th , 8 th and 9 th Digits	Metric Band Length							
Number of millimeters multiplied by .03937 equals total number of inches. (Unless using Coil Stock. Coil Length (in feet) + C) If a RANDOM LENGTH coil - use 000R .								

TOOTH SELECTION GUIDE

MATERIAL SIZE (INCHES)	TEETH PER INCH												MATERIAL SIZE (mm)	WALL THICKNESS (INCHES)	TEETH PER INCH	WALL THICKNESS (mm)
30"													762	1/16"	10/14	- 1.8
25													635	1/8 "	8/12	- 3.2
20													508	3/16 "	6/10	- 4.8
15													381	1/4 "		- 6.3
13													330	5/16 "	5/8	- 7.9
11													279	3/8 "		- 9.5
9													229	7/16 "		- 11.0
7													178	1/2 "		- 12.7
5													127	9/16 "	4/6	- 14.3
4.5													114	5/8 "		- 15.8
4													102	11/16 "		- 17.5
3.5													89	3/4 "		- 19.0
3													76	13/16 "		- 20.6
2.75													70	7/8 "		- 22.0
2.5													64	15/16 "	3/4	- 23.8
2.25													57	1 "		- 25.4
2													51	1-1/8 "		- 28.6
1.75													44	1-1/4 "		- 32.0
1.5													38	1-3/8 "	2/3	- 35.0
1.25													32			
1													25			
0.75													19			
0.50													13			
0.25													6			
	14/18	10/14	8/12	6/10	5/8	4/6	3/4	2/3	1.4/2.5	1/1.5	.75/1.0			1-1/2 "		

RECTANGLE SOLIDS (USE WIDTH)

ROUND SOLIDS (USE DIA.)



Cutting Speeds (Structurals) Rule of Thumb

When cutting structurals use cutting speeds:

WET 250–325 S.F.M. | DRY 200–250 S.F.M.

Tooth Selection

Cut costs with the right choice.

For maximum cutting efficiency and lowest cost per cut, it is important to select the blade with the right number of teeth per inch (TPI) for the material being cut. The material size and shape dictate tooth selection.

Consider this:

(1) The width of the cut:

That is, the distance in the cut that each tooth must travel from the point it enters the work piece until it leaves the work piece.

(2) The shape of the work piece

Chart Usage

Select a pitch based on the chart above. Find material dimension on chart and move right/left for appropriate teeth per inch (TPI).

For angle, tubing, pipe, and other structural shapes, find the wall thickness in size column and move right/left for tooth size.



GUARANTEED TRIAL PROGRAM



GUARANTEED TRIAL INDUSTRIAL SAW BLADES

The M. K. Morse Company will provide weld-to-length industrial band saw blades or industrial circular saw blades as a "Guaranteed Trial Order" (GTO) for the purpose of user evaluation of performance. If the blade recommended by Morse or approved by Morse for the particular application fails to perform satisfactorily for the user, Morse will issue full credit for the invoice value of the blade upon the return of the blade to Morse. In all instances where Morse provides weld-to-length industrial band saw blades or industrial circular saw blades for trial and evaluation, a Morse sales representative will provide follow-up. Morse is confident in the ability of our blades to meet end users expectations for performance.

BAND SAW MACHINE ACCESSORIES



BAND SAW TENSION GAUGE

Allows you to quickly check for under-tensioned or over-tensioned blade conditions while the blade is on the machine.

Users: Band saw operators, technicians

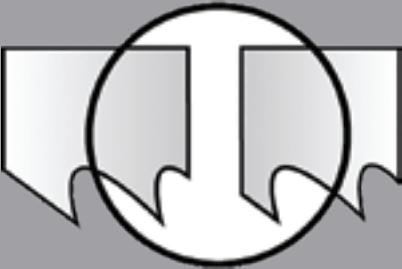
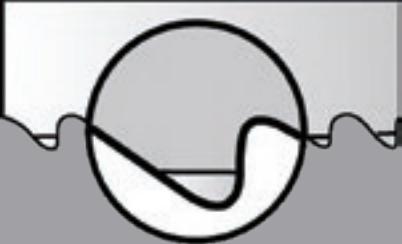
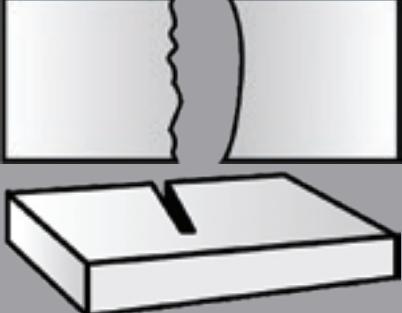
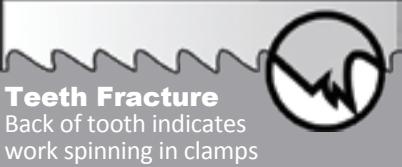
Applications: Used to measure band saw tension on the band saw

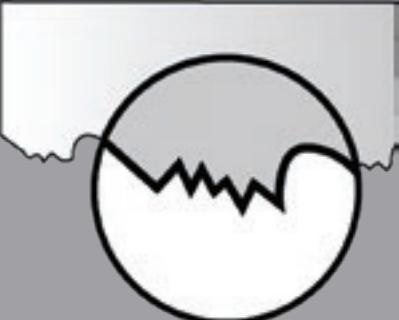
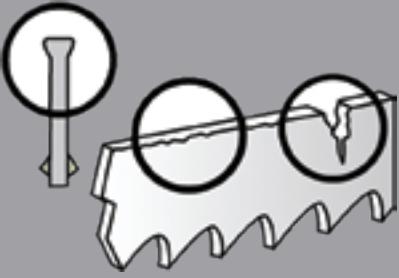
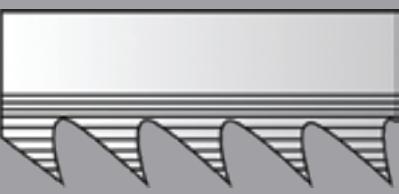
Model: TENSIONGAUGE **Part:** 005005



Feature	Benefit	Value
Offers proper blade tensioning	Calibrated gauge measuring in lb/in ² and kg/cm ²	Precise cutting results Optimal blade life Reduced machine damage from tensioning
Cast/powder coating and robust storage box	Durability of the unit and storage box	Maintains longevity of precision instrument

BLADE PROBLEM SOLVING

Problem	Problem Cause	Solution
 <p>Premature Blade Breakage Straight Break indicates fatigue</p>	<ul style="list-style-type: none"> ▼ Incorrect tooth pitch ▼ Blade tension incorrect ▼ Side guides too tight ▼ Damaged or misadjusted blade guides ▼ Excessive feed/force ▼ Incorrect cutting fluid ▼ Wrong blade size for _____ ▼ Blade rubbing on wheel flanges ▼ Teeth in contact with work before starting saw ▼ Incorrect blade speed 	<ul style="list-style-type: none"> ▼ Use correct tooth pitch ▼ Check blade tension with Band Tension Gauge ▼ Check side guide clearance (see machine manual) ▼ Check all guides for alignment/damage ▼ Reduce feed pressure/force ▼ Check coolant/refract ▼ Use correct size blade ▼ Adjust wheel alignment ▼ Allow clearance before starting cut ▼ Increase or decrease blade speed
 <p>Premature Dulling of Teeth</p>	<ul style="list-style-type: none"> ▼ Teeth pointing in wrong direction / blade mounted backwards ▼ Improper or no blade break-in ▼ Hard spots in material ▼ Material work hardened ▼ Improper coolant ▼ Improper coolant concentration ▼ Speed too high ▼ Feed too light ▼ Improper tooth count 	<ul style="list-style-type: none"> ▼ Install blade correctly. If teeth are facing the wrong direction, flip blade inside out ▼ Break in blade properly (Page 10) ▼ Check for hardness or hard spots like scale or flame cut areas ▼ Increase feed rate ▼ Check coolant type ▼ Check coolant/refract ▼ Check recommended blade speed ▼ Increase feed rate ▼ Select proper tooth size
 <p>Crooked or Out of Square Cuts</p>	<ul style="list-style-type: none"> ▼ Tooth set damage ▼ Excessive feed pressure/force ▼ Improper tooth size ▼ Cutting fluid not applied evenly ▼ Guides worn or loose ▼ Insufficient blade tension ▼ Guide arms loose or set too far apart ▼ Chips not being cleaned from gullets 	<ul style="list-style-type: none"> ▼ Check for worn set on one side of blade ▼ Reduce feed pressure/force ▼ Check tooth size chart (Page 33) ▼ Check coolant nozzles ▼ Tighten or replace guides, check for proper alignment ▼ Adjust to recommended tension ▼ Position arms as close to work as possible. Tighten arms. ▼ Check chip brush
 <p>Chip Welding</p>	<ul style="list-style-type: none"> ▼ Insufficient coolant flow ▼ Wrong coolant concentration ▼ Excessive speed and/or pressure ▼ Tooth size too small ▼ Chip brush not working 	<ul style="list-style-type: none"> ▼ Check coolant level and flow ▼ Check coolant ratio/refract ▼ Reduce speed and/or pressure ▼ Use coarser tooth pitch ▼ Repair or replace chip brush
 <p>Teeth Fracture Back of tooth indicates work spinning in clamps</p>	<ul style="list-style-type: none"> ▼ Incorrect speed and/or feed ▼ Incorrect tooth pitch ▼ Saw guides not adjusted properly ▼ Chip brush not working ▼ Work spinning or moving in vise 	<ul style="list-style-type: none"> ▼ Check cutting chart (Page 34-35) ▼ Check tooth size chart (Page 33) ▼ Adjust or replace saw guides ▼ Repair or replace chip brush ▼ Check bundle configuration/adjust vise pressure
 <p>Irregular Break Indicates material movement</p>	<ul style="list-style-type: none"> ▼ Indexing out of sequence ▼ Material loose in vise 	<ul style="list-style-type: none"> ▼ Check proper machine movement ▼ Check vise or clamp

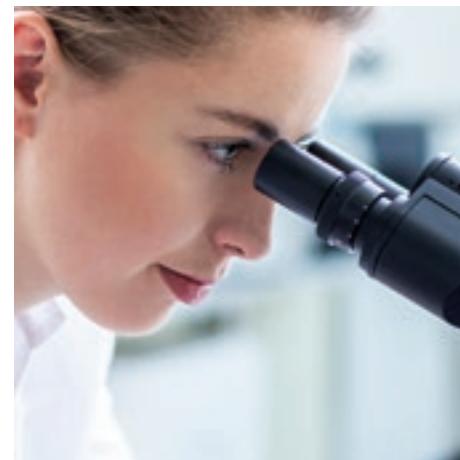
Problem	Problem Cause	Solution
 <p>Teeth Stripping</p>	<ul style="list-style-type: none"> ▼ Feed pressure too high ▼ Tooth stuck in cut ▼ Improper or insufficient coolant ▼ Incorrect tooth size ▼ Hard spots in material ▼ Work spinning in vise - loose nest or bundle ▼ Blade speed too slow ▼ Blade teeth running backwards ▼ Chip brush not working 	<ul style="list-style-type: none"> ▼ Reduce feed pressure ▼ Do not enter old cut with a new blade ▼ Check coolant flow and concentration/refract ▼ Check tooth size chart (Page 33) ▼ Check material for hard inclusions ▼ Check clamping pressure - be sure work is held firmly ▼ Increase blade speed ▼ Reverse blade (turn inside out) ▼ Repair or replace chip brush
 <p>Wear on Back of Blades</p>	<ul style="list-style-type: none"> ▼ Excessive feed pressure ▼ Insufficient blade tension ▼ Back-up guide frozen, damaged, or worn ▼ Blade rubbing on wheel flange 	<ul style="list-style-type: none"> ▼ Decrease feed pressure ▼ Increase blade tension and readjust guides ▼ Repair or replace back-up guide ▼ Adjust wheel alignment
 <p>Rough Cut Washboard surface vibration and or chatter</p>	<ul style="list-style-type: none"> ▼ Dull or damaged blade ▼ Incorrect speed or feed ▼ Insufficient blade support ▼ Incorrect tooth pitch ▼ Insufficient coolant 	<ul style="list-style-type: none"> ▼ Replace with new blade ▼ Use correct speed and feed ▼ Move guide arms as close as possible to the work ▼ Use finer pitch blade ▼ Check coolant flow
 <p>Wear Lines, Loss of Set</p>	<ul style="list-style-type: none"> ▼ Saw guide inserts or wheel flange are riding on teeth ▼ Insufficient blade tension ▼ Hard spots in material ▼ Back-up guide worn 	<ul style="list-style-type: none"> ▼ Check machine manual for correct blade width ▼ Tension blade properly ▼ Check material for inclusions ▼ Replace guide
 <p>Twisted Blade Profile sawing</p>	<ul style="list-style-type: none"> ▼ Blade binding in cut ▼ Side guides too tight ▼ Wrong size blade ▼ Work not firmly held ▼ Erratic coolant flow ▼ Incorrect blade tension 	<ul style="list-style-type: none"> ▼ Decrease feed pressure/force ▼ Adjust side guide gap ▼ Use correct size blade ▼ Check clamping pressure ▼ Check coolant nozzles ▼ Check blade tension
 <p>Blade Wear Teeth blued</p>	<ul style="list-style-type: none"> ▼ Incorrect blade ▼ Incorrect feed or speed ▼ Improper or insufficient coolant ▼ "Blueing" caused by excessive heat 	<ul style="list-style-type: none"> ▼ Use coarser tooth pitch ▼ Use correct feed and speed ▼ Check coolant flow ▼ Check coolant flow

BLADE OPTIMIZATION

USING METAL CHIPS TO TROUBLESHOOT

You can improve the productivity of your metal cutting operation by paying close attention to the chips made by the blade cutting through metal. This chart shows some of the common problems that can be discovered and solved by paying attention to chips in a large variety of materials.

Chip Form	Chip Condition	Chip color	Blade Speed	Blade Feed Rate	Other
	Thick, Hard and Short	Blue or Brown	Decrease 	Decrease 	Check Cutting Fluid and Mix
	Thin and Curled	Silver	Suitable 	Suitable 	
	Powder	Silver	Decrease 	Increase 	
	Thin and Tightly Curled	Silver	Suitable 	Decrease 	Check Tooth Pitch



Blade Break-In

BLADE BREAK-IN: EXTREMELY IMPORTANT FOR MOST BLADES

The extremely sharp tooth points and edges of new blades must be broken-in before applying full feed pressure to the blade.

A good analogy is that of writing with a freshly sharpened wooden pencil.

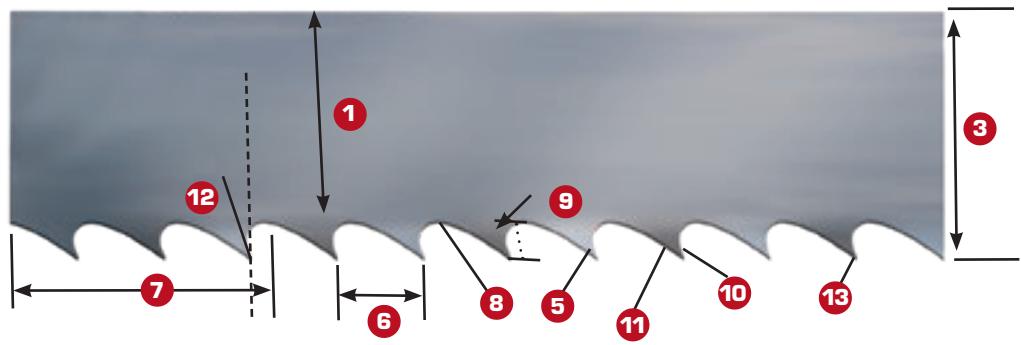
** Jawbreaker band saw blades are the exception and should not be broken in **

RECOMMENDED BREAK-IN PROCEDURE

- Maintain proper blade speed for the material to be cut.
- Reduce blade feed pressure or feed rate by 50% for the first 50 – 100in² or 322 – 645cm² of material cut.
- Gradually increase feed pressure or feed rate after break-in to target pressure or rate.

ANATOMY OF A SAW BLADE

Although it looks like a flat piece of metal with teeth, a quality industrial band saw blade is actually a sophisticated cutting tool. Its ability to efficiently cut through tough metals, composite materials, plastics, and woods depends on a variety of interrelated factors such as the design, spacing and set of the teeth, the design and capacity of the gullets to make sure chips are efficiently removed, the composition of the backer strip, and the gage of the metal. These considerations must be taken into account when selecting the right blade for your application. The following Technical Pages will help you arrive at the perfect Morse solution to your particular cutting problem.



- ① **Blade Backer** The body of the blade not including tooth portion
- ② **Gauge**..... The thickness of the blade
- ③ **Width**..... The tip of tooth to back of blade
- ④ **Set**..... The positioning of teeth right or left
- ⑤ **Tooth** The cutting portion of the saw blade
- ⑥ **Tooth Pitch**..... The distance from one tooth tip to the next
- ⑦ **T.P.I.** The number of teeth per inch measured gullet to gullet
- ⑧ **Gullet** The curved area between the tooth points
- ⑨ **Gullet Depth** The distance from the tooth tip to the bottom of the gullet
- ⑩ **Tooth Face**..... The surface of the tooth on which the chip is formed
- ⑪ **Tooth Flank** The angled back surface of the tooth opposite the tooth face
- ⑫ **Tooth Rake Angle**..... The angle of the tooth face measured with respect to a line perpendicular to the cutting direction of the saw
- ⑬ **Tooth Tip**..... The cutting edge of the saw tooth

TOOTH SET SPECIFICATIONS



Standard (0° Rake)



Hook (Positive Rake)

Here's where the blade makes the cut. The tooth design variables include shape, position, set, type and spacing. The combination of these variables will determine whether the blade can move easily through your material without binding or becoming clogged with chips.

Raker



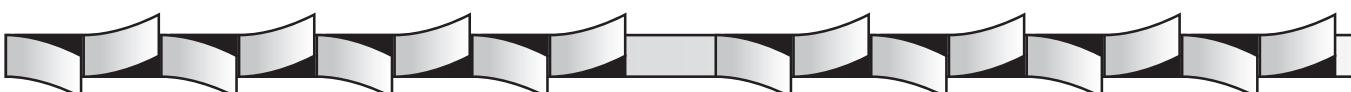
Recurring sequence of teeth - one set right, one set left, and one unset.

Modified Raker (double set raker)



Recurring sequence set left, right, left, right, straight tooth pattern.

Variable Pitch Modified Raker



Set sequence depends on the number of teeth in the variable pitch tooth pattern.

Recurring sequence with more than two set teeth before an unset tooth.

Wavy



Groups of teeth, usually 3 or 4, set to each side in a controlled pattern with an unset tooth between groups.

Alternate (ETS)



Every tooth set alternately to the left and right.

BAND SAW TOOTH PITCHES

Variable Pitch - 0°

Feature

- ▼ Varying gullet depth
- ▼ 0° Rake angle
- ▼ Variable tooth spacing



Benefit

- ▼ Excellent chip carrying capacity
- ▼ Reduces harmonic vibration
- ▼ Cuts smoother and more efficiently

Value

- ▼ Improves blade life
- ▼ Reduces noise
- ▼ Eliminates secondary operations, improves productivity

Variable Pitch Positive Rake

Feature

- ▼ Varying gullet depth
- ▼ Variable tooth spacing
- ▼ Positive rake angle



Benefit

- ▼ Better chip formation
- ▼ Excellent chip carrying capacity
- ▼ Reduces harmonic vibration
- ▼ More aggressive cutting; better tooth penetration

Value

- ▼ Cuts smoother, faster
- ▼ Improves productivity
- ▼ Reduces noise levels
- ▼ Generates less heat, improves blade life

Standard Raker

Feature

- ▼ Equally spaced teeth
- ▼ 0° Rake angle



Benefit

- ▼ Excellent chip carrying capacity

Value

- ▼ Increased productivity, versatility

Skip

Feature

- ▼ Wide flat gullets
- ▼ 0° Rake angle
- ▼ Equally spaced teeth



Benefit

- ▼ Excellent chip carrying capacity
- ▼ Non-metallic, non-ferrous cutting applications (wood, plastic, brass, copper, bronze, and aluminum)

Value

- ▼ Breaks "stringy" chips; improves cutting capability
- ▼ Greater productivity for specific applications

Hook

Feature

- ▼ Wide rounded gullets
- ▼ Equally spaced teeth
- ▼ Positive rake angle



Benefit

- ▼ Excellent chip carrying capacity in non-metallic applications
- ▼ Positive rake provides better tip penetration with less feed pressure

Value

- ▼ Better cutting performance, productivity
- ▼ Good surface finish to eliminate secondary operations

BLADE RECOMMENDATION CHECKLIST



Complete by:

Date:

User Information

Company:

Address:

Contact:

Phone No.:

Current Blade Information

Manufacturer:

Length: Width:

Thickness: Tooth Pitch:

Type: Carbon Matrix M42 Other

Monthly blade usage:

Current blade distributor:

Current blade cost: \$ (ea.)

After completing the checklist, please see product chart on back page or
Contact Morse Technical Assistance

Complete and Fax to: 1(330) 453-1111

or call 1(330) 453-8187 or visit www.bladewizard.com

Distributor Information

Company:

Address:

Contact:

Phone No.:

Fax No.:

Machine Information

Make:

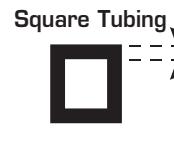
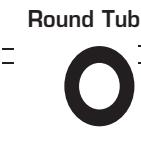
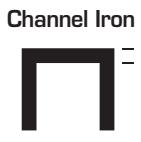
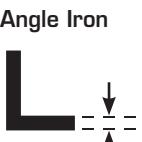
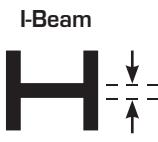
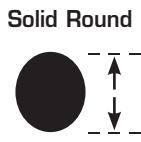
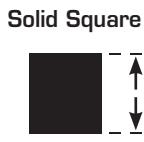
Model:

Vertical Horizontal

Blade Speed (sfm):

Feed Rate:

Application Information



On the lines provided below each icon, **list material width** and **wall thickness** (if applicable) for each material type being cut

Types of Cutting

(Check all that apply)

Single Piece Cut-off

Bundled Cut-off

1. Number of pieces: _____

2. Check each configuration that applies:



Materials Being Cut

(Check all that apply)

Type

- Non-Ferrous
- Mild Carbon Steels
- Tool Steels
- Stainless Steels
- Super Alloys
- Other

Grade

Production Usage (per day)

- Light (2 hrs. or less)
- Medium (3-6 hrs.)
- Heavy (7 hrs. or more)

Problems with Present Blade

- Breaking blades
- Premature dulling
- Tooth strippage
- Cost

Blade Recommendation



THIN KERF INDUSTRIAL **CIRCULAR SAW BLADES**

Blade Type

Metal

Revolution FS

Application

Optimized for carbon and high alloy steels.

Revolution

Optimized for stainless steel, high alloy steel, and aluminum.

REVOLUTION™

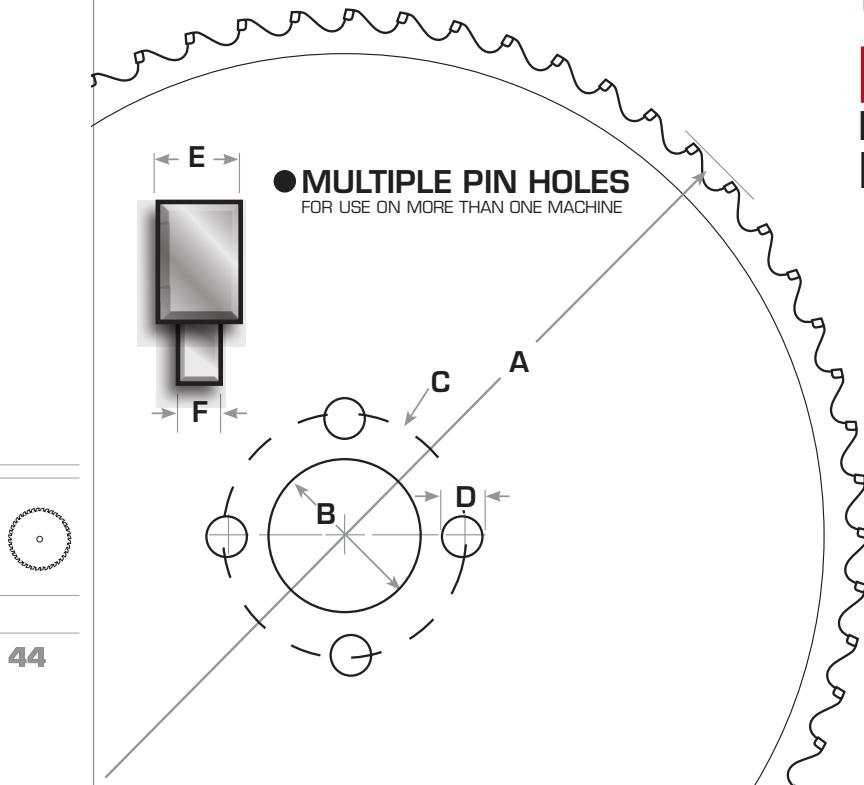
Cut through steel, carbon, stainless, aluminum, and high alloy steel faster than ever. Unique combinations of metallurgy and blade configurations are tailored for peak performance in specific applications.

MADE IN U.S.A.



Features & Benefits

- ▼ Ferrous and non-ferrous metal cutting
- ▼ Efficient cutting for $\frac{1}{2}$ to 6 inch diameter
- ▼ Most effective in solids



**THIN KERF CIRCULAR
SAW BLADES PROVIDE THE
ULTIMATE
PERFORMANCE
IN CUTTING SOLUTIONS FOR
HIGH VOLUME CUTTING**

- A BLADE DIAMETER
- B ARBOR DIAMETER
- C PIN HOLE
- D PIN HOLE DIAMETER
- E KERF WIDTH
- F PLATE THICKNESS

METAL REVOLUTION FS



REVOLUTION FS Z BALANCE TECHNOLOGY



REVOLUTION FS

Revolution FS circular saw blades with patent-pending Z Balance technology are specifically engineered for use with industrial circular saw machines. These blades outperform the competition in a wide variety of applications from $\frac{1}{2}$ to 6 inches depending on the machine model and blade diameter.

Applications

- ▼ Low and medium alloy steels
- ▼ Solid bars
- ▼ Workpiece hardness up to 40 HRc

Benefits

- ▼ Fast cutting
- ▼ Long life
- ▼ Straight cutting
- ▼ Superior finish
- ▼ Consistent quality
- ▼ No resharpening

Diameter		Blade (mm)	Inner (mm)	Kerf (mm)	Teeth	Drive Pins	Model	Part	Machine Example
250mm	32mm	250mm	32mm	2.0mm	72	4/11/63 and 4/9/50	ICTNK25072FSB	203159	Tsune Nishijimax Kasto (Wagner) Exact Cut
250mm	32mm						ICTNK25080FSB	203166	
285mm	32mm	285mm	32mm	2.0mm	60	4/11/63 and 4/9/50	ICTNK28560FSB	203173	Everising Kasto Nishijimax Tsune
285mm	32mm						ICTNK28572FSB	203180	
285mm	32mm						ICTNK28580FSB	203197	
360mm	40mm	360mm	40mm	2.74mm	60	4/11/90	ICAM36060FSB	203203	Amada Behringer Daito / Delta Everising Mega Missler
360mm	40mm						ICAM36080FSB	203210	
360mm	40mm						ICAM360100FSB	203227	
360mm	50mm	360mm	50mm	2.74mm	60	4/14/80 and 4/16/80	ICNT36060FSB	203234	Endo Kaltenbach Kasto Nishijimax Tsune
360mm	50mm						ICNT36080FSB	203241	
360mm	50mm						ICNT360100FSB	203258	
420mm	50mm	420mm	50mm	2.74mm	60	4/16/80	ICTS42060FSB	203265	Endo Tsune
420mm	50mm						ICTS42080FSB	203272	
460mm	50mm	460mm	50mm	2.74mm	60	4/16/80 and 4/21/90	ICNI46060FSB	203289	Amada Everising Nishijimax
460mm	50mm						ICNI46080FSB	203296	



METAL CARBIDE TIPPED



Applications

- ▼ Stainless steels
- ▼ High alloy steels
- ▼ Aluminum

THIN KERF CARBIDE TIPPED

Morse Revolution blades are high performance circular saw blades specifically engineered for use with thin kerf metal cutting industrial circular saw machines. Carbide tipped blades are optimized for stainless steel, high alloy steel, and aluminum. Made for cutting solids from 1/2 to 6 inches depending on machine model and blade diameter.

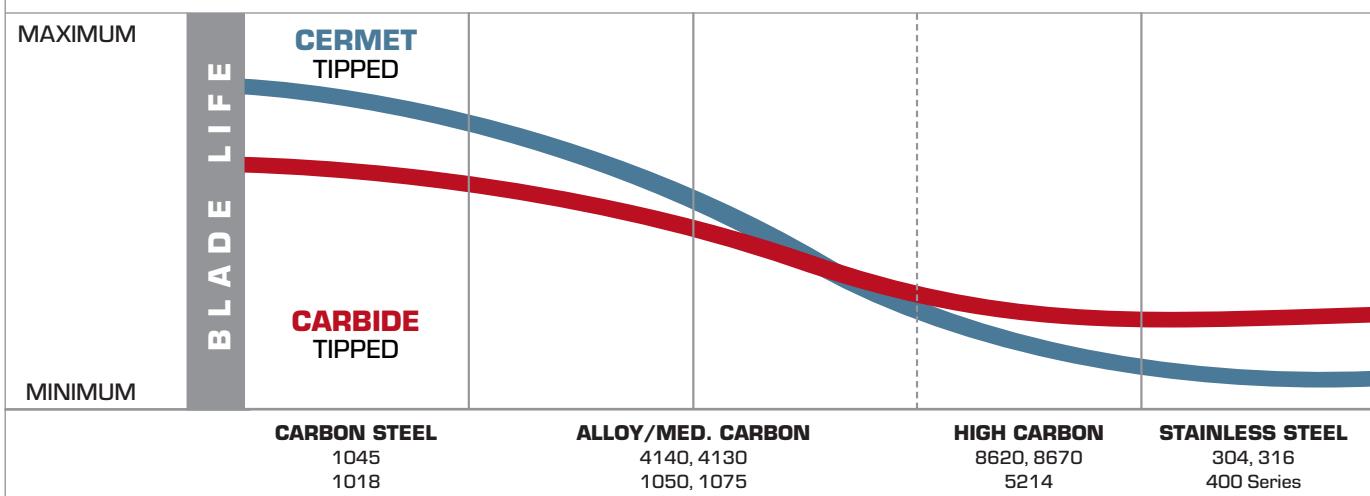
Benefits

- ▼ Less material waste
- ▼ Consistent quality
- ▼ No resharpening
- ▼ Long life
- ▼ Fast cutting
- ▼ Superior finish

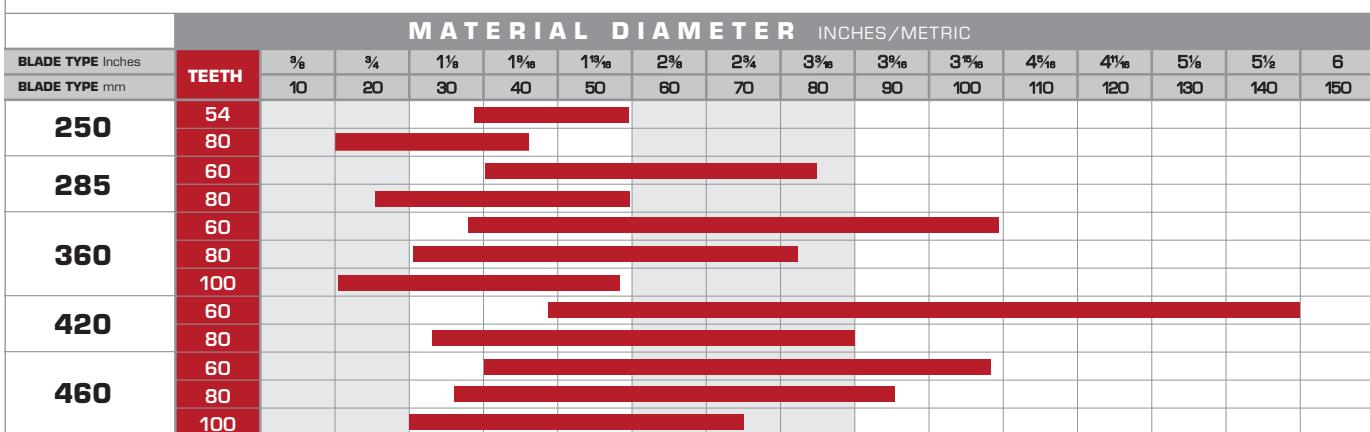
Diameter Blade (mm)	Inner (mm)	Kerf (mm)	Teeth	Pin Hole	Model	Part	Machine Example
285	32	2.03	80	4/11/63 and 4/9/50	ICTNK28580CB	203005	Everising Kasto Nishijimax Tsune
360	40	2.7	60	4/11/90	ICAM36060CB	203081	Amada Behringer Daito / Delta Everising Mega
360	40	2.7	80		ICAM36080CB	203029	
360	50	2.7	60	4/14/80 and 4/16/80	ICNT36060CB	203012	Kaltenbach Kasto Tsune
360	50	2.7	80		ICNT36080CB	203036	
360	50	2.7	100		ICNT360100CB	203074	
420	50	2.7	60	4/16/80	ICTS42060CB	203043	Endo Tsune
460	50	2.7	60	4/16/80 and 4/21/90	ICNI46060CB	203050	Amada Everising Nishijimax



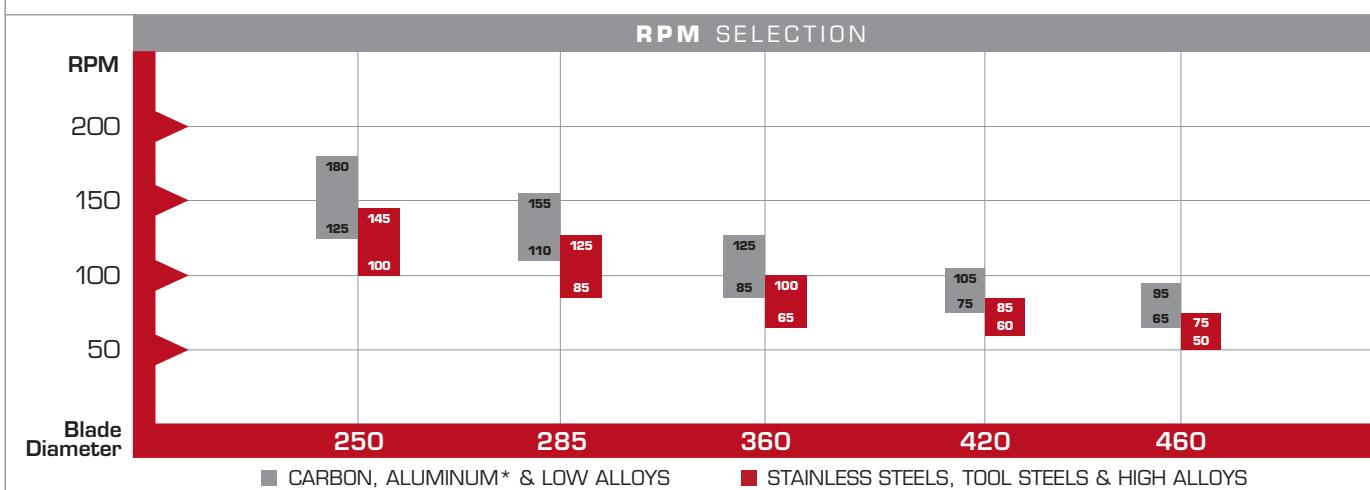
BLADE TYPE SELECTION GUIDE



BLADE TOOTH SELECTION GUIDE

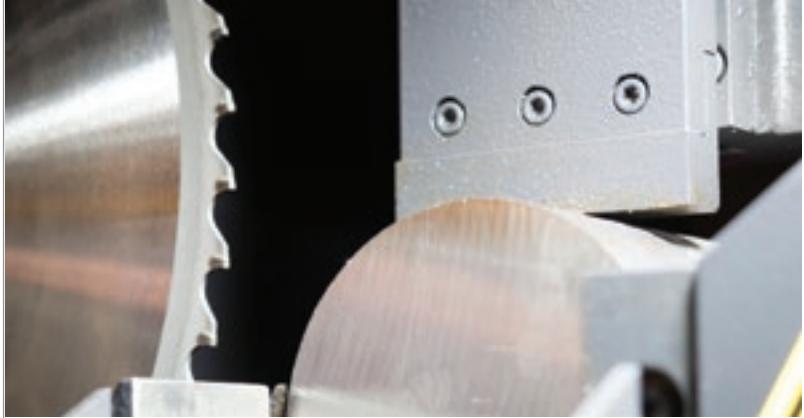


RPM SELECTION GUIDE



THIN KERF INDUSTRIAL CIRCULAR

Problem	Problem Cause	Solution
Teeth stripping	Incorrect blade selection	Select a blade with larger gullet space Select a blade with fewer teeth
	Excessive cutting speed	Refer to the cutting conditions chart Lower feed rate/chip load
	Excessive chip load	Refer to the cutting conditions chart Lower feed rate/chip load
	Excessive wear at the cutting edge	Check for the integrity of the chip groove Direct mist on to the cutting edge
	Low clamp/vise pressure/material moves	Increase hydraulic pressure up to specified level
Gullet clogging	Incorrect blade selection	Select a blade with larger gullet space Select a blade with fewer teeth
	Insufficient coolant	Increase coolant rate until cut surface is wet
	Incorrect tooth type for material being cut	Select correct tooth type
Chip welding	Incorrect cutting parameters	Check RPM Check chip load
	Insufficient coolant	Check coolant rate Increase coolant rate Check orientation of outlet nozzle Check chip brush Adjust or replace chip brush if necessary
	Damaged teeth	Check the tooth for damage Run if necessary at reduced chip load/feed rate
	Excessive wear at the tooth edge	Increase coolant and air flow Run at low RPM and chip load/feed rate
Out of square cuts	High or low plate tension	Replace the blade
	Chamfer imbalance	Replace the blade
Billet weight inconsistent	Machine malfunction	Check/clean the feed sensors/inspect
Wavy Cuts	Low or high plate tension	Replace the blade
	Insufficient coolant	Check coolant flow
	Out of square clamping	Check cleanliness of jaws/vice Check squareness of jaws/vice Check feeding mechanism and sensors






MORSE HOLE CUTTING & BORING TOOLS

Blade Type Application

Hole Saws

General Purpose

Bi-Metal MHS/ MHSA General purpose cutting across a wide range of materials including metals, wood, drywall and composites.

Fast Adapt Arbors Compatible across the range of hole saws. For contractors who need to quickly change from one hole saw to another, including electrical, plumbing, siding, door, flooring and marine.

Arbors & Accessories Compatible across the range of hole saws. Accessories include extensions that allow you to increase the reach of the saw, adapters that facilitate hole enlargement, springs to facilitate slug removal and replacement pilot drills.

Carbide Tipped MHSTK Extended life cutting fiberglass, nail-free wood, fiberboard, stainless steel, drywall, plaster and laminates. Not recommended for pipe cutting.

Specialty

Diamond Grit For use on extremely hard or abrasive materials where cut finish is important including stone, porcelain/ceramics, brick/masonry, cast iron, glass block, architectural stone, composites and laminate flooring.

Carbide Grit For use on hard or abrasive materials including cement, brick, cinder block, cast iron, plaster with lath, unglazed ceramics, fiberglass, and composites.

Recessed Lighting Grit saws are ideal for installations in drywall, plaster with lath or ceiling tile. Bi-metal saws are designed for installations in metal or wood.

Precision Hole Cutting

Metal

CT Hole Cutters Precision cutting for fabrication applications. Makes clean, fast cuts in sheet metal, stainless steel, pipe, conduit, aluminum and composites.

Step Drills Repetitive hole cutting or enlargement for electrical, automotive and sheet metal applications.

Wood Hole Cutting

Double Cut Auger Bits Excellent for deep boring in wood and nail-embedded wood. Applications include landscaping timbers, log and timber frame construction, plumbing and electrical installations.

Spade Bits Fast, deep cutting in wood, plywood, composites and laminates.

HOLE SAW ACCESSORIES

FAST ADAPT® ARBORS

Compatible across the range of hole saws. For contractors who need to quickly change from one hole saw to another, including electrical, plumbing, siding, door, flooring and marine.



Fast Adapt		Shank	Chuck	Thread	Fits Saws	Follow Through	Standard Pilot				
							Model	Part			
							1/Box				
Universal Arbor		7/16 3-sided	1/2		7/16 - 6 5/8	1 1/2	MQRAC	143042			
Fast Adapt - 1/2				1/2 - 20	7/16 - 1 3/16	1 1/2	MQR12C	143028			
Fast Adapt - 5/8				5/8 - 18	1 1/4 - 6 5/8	1 1/2	MQR58C	143011			
Fast Adapt Combo Pack - 2 MQR12 / 3 MQR58				1/2 - 20 5/8 - 18	7/16 - 6 5/8	1 1/2	MQR5812C	143004			
Pilot Drill							MQRPDC	143035			
Pilot Drills		Length	Diameter								
Items noted in BOLD also available in kits. See pages 58-59.											
			in	mm	in	mm	Model	Part			
			1/Pack		5/Pack						
MHS, MHSA, MHSTK and MHSG Hole Saws											
Standard		3 3/32	79	1/4	6	MAPD301	139113				
Carbide Tipped		3 3/32	79	1/4	6	MAPD3CT	139229				
AV, MK, TA, TAD and AD Hole Saws											
Standard		3 1/16	78	1/4	6	MPD4S01	140799				
Standard		4 5/16	110	1/4	6	MPD401	140775				
Carbide Tipped		2 7/8	73	1/4	6	MPD4SCT01	140874	MPD4SCT05			
								140881			
Extensions		Length		Shank	Chuck	Model	Part	Model			
		in	mm	in	mm	1/Pack		10/Pack		Bulk	
	12	305	3/8 Hex	9.5	7/8	ME381	140409			ME38	901991
	12	305	7/16 Hex	10.5	1/2	ME121	141123	ME1210	142120	ME12	140126



ARBORS & ACCESSORIES

Compatible across the range of hole saws. Accessories include extensions that allow you to increase the reach of the saw, adapters that facilitate hole enlargement, springs to facilitate slug removal and replacement pilot drills.



Arbors	Shank	Chuck	Thread	Fits Saws	Follow Through	Standard Pilot		Carbide Tipped Pilot			
						Model	Part	Model	Part	Model	Part
						1/Box		1/Card		1/Box	

Items noted in **BOLD** also available in kits. See pages 58-59.

Standard											
	1/4 Hex	1/4	1/2 - 20	9/16 - 1 3/16	3/4	MA24	139007	MA24C	139618		
	3/8 Hex	3/8	1/2 - 20	9/16 - 1 3/16	3/4	MA34	139014	MA34C	139625	MA34CT	139809
	5/8 Hex	5/8	5/8 - 18	1 1/4 - 6 5/8	3/4	MA35	139045	MA35C	139632		
Pinned											
	3/8 Hex	3/8	5/8 - 18	1 1/4 - 6 5/8	1 1/2	MA35PS	139021	MA35PSC	139649	MA35PSCT	139823
	7/16 Hex	1/2	5/8 - 18	1 1/4 - 6 5/8	1 1/2	MA45PS	139038	MA45PSC	139656	MA45PSCT	139816

Pilot Drills

Model	Part	Model	Part	Model	Part
10/Pack		25/Pack		100/Pack	
MHS, MHSA, MHSTK and MHSG Hole Saws					
MAPD310	139120	MAPD325	139137	MAPD3100	139144
AV, MK, TA, TAD and AD Hole Saws					
MPD4S10	140683	MPD4S25	140720	MPD4S100	140690
MPD410	140478	MPD425	140522	MPD4100	140492



Accessories

	Thread		Model	Part	Model	Part	Model	Part
	Arbor	Saw	1/Pack		5/Pack		25/Pack	
Hole Saws								
Hex Adapter		1/2 - 20	5/8 - 18	M44NH01	140744	M44NH05	140584	
Ejector Spring - fits 1/4 Pilot Drills				MES101	140805	MES105	140812	MES125
								140836



HOLE SAWS GENERAL PURPOSE



KRAKEN CARBIDE TIPPED

Kraken is a new and improved carbide tipped hole saw with patent pending tooth design. Use in a wide variety applications and industries to fulfill all your cutting needs; now including fastener embedded wood!

Applications

- ▼ Fiberglass
- ▼ Plastic
- ▼ Composites
- ▼ Aluminum
- ▼ Carbon Steel
- ▼ Computer Flooring
- ▼ Fastener Embedded Wood
- ▼ Stainless Steel
- ▼ Tile Backer

Benefits

- ▼ New patent pending tooth provides:
 - Faster cutting in all applications
 - Better chip clearance for longer life
 - Smaller slug dimensions for easier slug removal
 - Smoother entry cut resulting in less torque
- ▼ New side slot provides increased leverage for faster, easier slug removal
- ▼ 1 $\frac{1}{16}$ " (49 mm) cutting depth for a wider variety of materials and applications

Arbor Required:

$\frac{7}{16}$ – $1\frac{3}{16}$ use $\frac{1}{2}$ – 20
 $1\frac{1}{4}$ – 6 use $\frac{5}{8}$ – 18



Diameter	Model	Part	Diameter	Model	Part	Diameter	Model	Part
in	mm	1/Box	in	mm	1/Box	in	mm	1/Box
$\frac{7}{16}$	14	MHSTK09	131094	$1\frac{5}{8}$	41	MHSTK26	131261	$3\frac{1}{4}$
–	16	MHSTK105	131100	$1\frac{11}{16}$	43	MHSTK27	131278	$3\frac{3}{8}$
$1\frac{1}{16}$	17	MHSTK11	131117	$1\frac{3}{4}$	44	MHSTK28	131285	$3\frac{1}{2}$
$\frac{3}{4}$	19	MHSTK12	131124	$1\frac{13}{16}$	46	MHSTK29	131292	$3\frac{5}{8}$
–	20	MHSTK125	131971	$1\frac{7}{8}$	48	MHSTK30	131308	$3\frac{3}{4}$
$1\frac{3}{16}$	21	MHSTK13	131131	2	51	MHSTK32	131322	$3\frac{7}{8}$
$\frac{7}{8}$	22	MHSTK14	131148	$2\frac{1}{16}$	52	MHSTK33	131339	4
$1\frac{5}{16}$	24	MHSTK15	131155	$2\frac{1}{8}$	54	MHSTK34	131346	$4\frac{1}{8}$
1	25	MHSTK16	131162	$2\frac{1}{4}$	57	MHSTK36	131360	$4\frac{1}{4}$
$1\frac{1}{16}$	27	MHSTK17	131179	$2\frac{5}{16}$	59	MHSTK37	131377	$4\frac{3}{8}$
$1\frac{1}{8}$	29	MHSTK18	131186	$2\frac{3}{8}$	60	MHSTK38	131384	$4\frac{1}{2}$
$1\frac{3}{16}$	30	MHSTK19	131193	$2\frac{1}{2}$	64	MHSTK40	131407	$4\frac{3}{4}$
$1\frac{1}{4}$	32	MHSTK20	131209	$2\frac{9}{16}$	65	MHSTK41	131414	5
$1\frac{5}{16}$	33	MHSTK21	131216	$2\frac{5}{8}$	67	MHSTK42	131421	$5\frac{1}{4}$
$1\frac{3}{8}$	35	MHSTK22	131223	$2\frac{3}{4}$	70	MHSTK44	131445	$5\frac{1}{2}$
$1\frac{7}{16}$	37	MHSTK23	131230	$2\frac{7}{8}$	73	MHSTK46	131469	$5\frac{3}{4}$
$1\frac{1}{2}$	38	MHSTK24	131247	3	76	MHSTK48	131483	6
$1\frac{1}{16}$	40	MHSTK25	131254	$3\frac{1}{8}$	79	MHSTK50	131506	

Items noted in **BOLD** also available in kits. See pages 58-59.

RPM recommendations provided on page 60.

Pipe entrance and pipe tap recommendations provided on page 61.



HOLE SAWS SPECIALTY



DIAMOND GRIT

DIAMOND GRIT

For use on extremely hard or abrasive materials where cut finish is important including stone, porcelain/ceramics, brick/masonry, cast iron, glass block, architectural stone, composites and laminate flooring.

Applications

- ▼ Granite (stone)
- ▼ Ceramic Tile
- ▼ Glass Block
- ▼ Brick (masonry)
- ▼ Cast Iron
- ▼ Laminate Flooring

Benefits

- ▼ Industrial Diamond Grit brazed to hardened and tempered alloy body.
- ▼ Fast and easy cutting of abrasive materials.
- ▼ Finish cut edges are smooth and clean.
- ▼ Hollow core center keeps hole saw centered
- ▼ Side slots allow for fast removal of material



Auto-Pilot

recommended for
Standard Hole Saws

		One-piece Hole Saws (arbor attached)		Standard Hole Saws (arbor required)	
Diameter		Model	Part	Model	Part
in	mm	1/Card		1/Card	
3/16	5	DGM03C	129152		
1/4	6	DGM04C	129169		
5/16	8	DGM05C	129176		
3/8	10	DGM06C	129183		
1/2	13	DGM08C	129190		
5/8	16	DGM10C	129206		
3/4	19	DGM12C	129213		
7/8	22			DG14C	129008
1	25	DGM16C	129220		
1 1/8	29			DG18C	129015
1 1/4	32			DG20C	129022
1 3/8	35	DGM22C	129237		
2	51			DG32C	129039
2 1/2	64			DG40C	129046
Auto-Pilot			DGAPC	129503	

**Arbor required for Standard
Hole Saws:**
5/8 – 1 1/8 use 1/2 – 20
1 1/4 – 2 1/2 use 5/8 – 18



HOLE SAWS SPECIALTY



TUNGSTEN CARBIDE GRIT

CARBIDE GRIT

For use on hard or abrasive materials including cement, brick, cinder block, cast iron, plaster with lath, unglazed ceramics, fiberglass, and composites.

Applications

- ▼ Acoustic tile
- ▼ Brick
- ▼ Cast iron
- ▼ Cement board
- ▼ Ceramics
- ▼ Cinderblock
- ▼ Composites
- ▼ Computer flooring
- ▼ Fiberglass
- ▼ Hardened steel
- ▼ Particleboard
- ▼ Asbestos board
- ▼ Formica

Benefits

- ▼ Super resistance to heat, wear and abrasion with shock resistant back
- ▼ Tungsten carbide grains are bonded to alloy backs with a gulleted snag resistant edge
- ▼ CT pilot drill recommended for masonry type materials

Arbor Required:

$\frac{9}{16}$ – $1\frac{3}{16}$ use $\frac{1}{2}$ – 20
 $1\frac{1}{4}$ – 6 use $\frac{5}{8}$ – 18



Gulletted

Diameter		Model	Part	Diameter		Model	Part	Diameter		Model	Part
in	mm	1/Box		in	mm	1/Box		in	mm	1/Box	
$\frac{3}{4}$	19	MHSG12	216128	$1\frac{3}{4}$	44	MHSG28	216289	$3\frac{1}{4}$	83	MHSG52	216524
$1\frac{3}{16}$	21	MHSG13	216135	$1\frac{13}{16}$	46	MHSG29	216296	$3\frac{3}{8}$	86	MHSG54	216548
$\frac{7}{8}$	22	MHSG14	216142	$1\frac{1}{8}$	48	MHSG30	216302	$3\frac{1}{2}$	89	MHSG56	216562
$1\frac{5}{16}$	24	MHSG15	216159	2	51	MHSG32	216326	$3\frac{5}{8}$	92	MHSG58	216586
1	25	MHSG16	216166	$2\frac{1}{16}$	52	MHSG33	216333	$3\frac{3}{4}$	95	MHSG60	216609
$1\frac{1}{16}$	27	MHSG17	216173	$2\frac{1}{8}$	54	MHSG34	216340	$3\frac{7}{8}$	98	MHSG62	216623
$1\frac{1}{8}$	29	MHSG18	216180	$2\frac{1}{4}$	57	MHSG36	216364	4	102	MHSG64	216647
$1\frac{3}{16}$	30	MHSG19	216197	$2\frac{5}{16}$	59	MHSG37	216371	$4\frac{1}{8}$	105	MHSG66	216661
$1\frac{1}{4}$	32	MHSG20	216203	$2\frac{3}{8}$	60	MHSG38	216388	$4\frac{1}{4}$	108	MHSG68	216685
$1\frac{5}{16}$	33	MHSG21	216210	$2\frac{1}{2}$	64	MHSG40	216401	$4\frac{3}{8}$	111	MHSG70	216708
$1\frac{3}{8}$	35	MHSG22	216227	$2\frac{9}{16}$	65	MHSG41	216418	$4\frac{1}{2}$	114	MHSG72	216722
$1\frac{7}{16}$	37	MHSG23	216234	$2\frac{5}{8}$	67	MHSG42	216425	$4\frac{3}{4}$	121	MHSG76	216760
$1\frac{1}{2}$	38	MHSG24	216241	$2\frac{3}{4}$	70	MHSG44	216449	5	127	MHSG80	216807
$1\frac{9}{16}$	40	MHSG25	216258	$2\frac{7}{8}$	73	MHSG46	216463	$5\frac{1}{2}$	140	MHSG88	216883
$1\frac{5}{8}$	41	MHSG26	216265	3	76	MHSG48	216487	$5\frac{3}{4}$	146	MHSG92	216920
$1\frac{11}{16}$	43	MHSG27	216272	$3\frac{1}{8}$	79	MHSG50	216500	6	152	MHSG96	216968

Continuous

$6\frac{5}{8}$	162	MHSG104	216975
$6\frac{5}{8}$	168	MHSG106	216982
$6\frac{7}{8}$	174	MHSG110	216999



Items noted in **BOLD** also available in kits. See pages 58-59.

RPM recommendations provided on page 60.

Pipe entrance and pipe tap recommendations provided on page 61.





RECESSED LIGHTING HOLE SAW

RECESSED LIGHTING

Leave a clean cut for recessed light installation by selecting the right saw for the application. Carbide grit saws are best when installing in abrasive material like drywall, plaster and ceiling tile. For ceilings made of wood or metal, bi-metal hole saws are the best choice.

The lens diameter of the fixture provides a good indication of the hole size required. Consult the manufacturers installation instructions to confirm the hole size necessary to leave adequate clearance for the light assembly. The most popular sizes are provided below.

Applications

- | | |
|---------------------|-----------------|
| Carbide Grit | Bi-Metal |
| ▼ Drywall | ▼ Wood |
| ▼ Plaster | ▼ Metal |
| ▼ Lath | |
| ▼ Ceiling Tile | |

Benefits

- ▼ Carbide grit saws leave clean cuts in abrasive materials like drywall, plaster and ceiling tile
- ▼ Bi-metal saws provide smooth cuts in wood or metal
- ▼ Application specific saws extend blade life
- ▼ Standard pilot drill recommended for most applications.
CT pilot drill recommended for masonry type applications.

Arbor Required: 5/8 – 18



Lighting Fixture Lens	Hole Saw		
Diameter	Diameter	Best for Drywall, Plaster, Lath and Ceiling Tile	Best for Wood or Metal
		1/Box	1/Box

in	mm	in	mm	Model	Part	Model	Part
Gulleted Carbide Grit							
2	51	2 ³ / ₈	60	MHSG38	216388	MHS38	177382
3	76	3 ³ / ₈	86	MHSG54	216548	MHS54	177542
4	102	4 ³ / ₈	111	MHSG70	216708	MHS70	177702
5	127	5 ¹ / ₂	140	MHSG88	216883	MHS88	177887

in	mm	in	mm	Model	Part	Model	Part
Continuous Carbide Grit							
6	152	6 ³ / ₈	162	MHSG104	216975	MHS104	177498
6	152	6 ⁵ / ₈	168	MHSG106	216982	MHS106	177535
6	152	6 ⁷ / ₈	174	MHSG110	216999		

RPM recommendations provided on page 60.

Pipe entrance and pipe tap recommendations provided on page 61.



HOLE SAW KITS



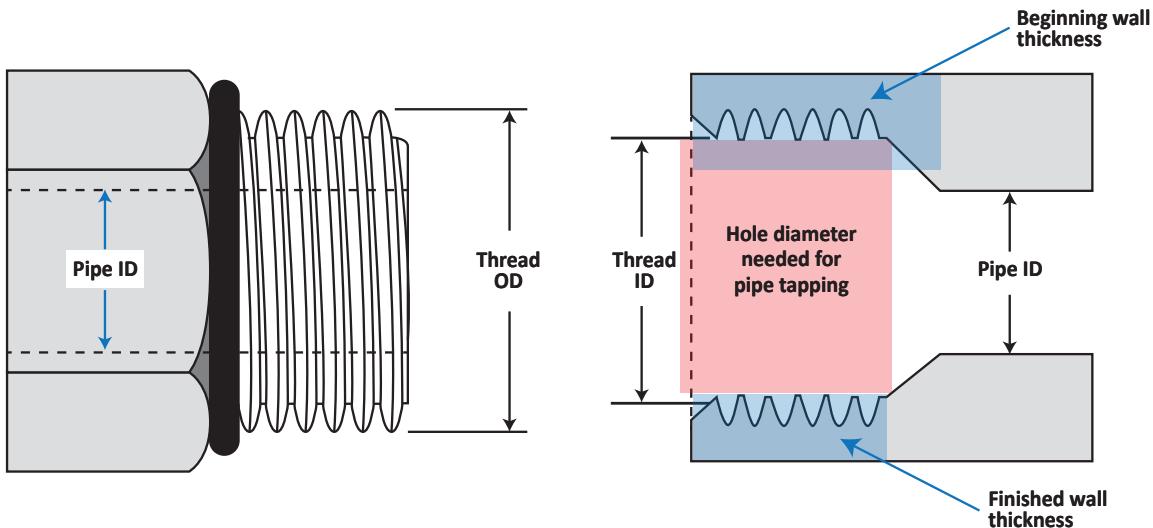
		Electrician's Kits				Plumber's Kits			
Component	Size		MHSELE01	MHS08E	MHS02E	MHSTK02E	MHSPLU01	MHS16P	MHS04P
	in	mm	177894	177757	177771	131025	177900	177818	177795
Bi-Metal Hole Saws	¾	19	1				1	1	1
	⅝	22	1	1	1		1	1	1
	1	25	1						
	1⅛	29	1	1	1		1	1	1
	1¼	32	1						
	1⅓	35	1	1	1				
	1½	38	1				1	1	1
	1¾	44	1	1	1		1	1	1
	2	51	1	1	1				
	2⅛	54					1		
	2¼	57					1	1	1
	2½	64	1	1	1				
	2⅞	65					1	1	
	2¾	67	1						
	3	76	1	1			1	1	
	3¼	83							
	3¾	86							
	3½	89					1	1	
	3½	92	1	1					
	3¾	95							
	4	102					1	1	
	4⅛	105	1	1					
	4¼	108					1	1	
	4½	114	1	1			1	1	
	4¾	121	1						
Carbide Tipped Hole Saws	¾	19	1						
	⅝	22	1			1			
	1⅛	29	1			1			
	1⅓	35	1			1			
	1½	38	1						
	1¾	44	1			1			
	2	51	1			1			
	2¼	57	1						
Carbide Grit Hole Saws	2½	64	1			1			
	¾	19					1		
	⅝	22					1		
	1⅛	29					1		
	1⅓	35					1		
	1½	38					1		
	1¾	44					1		
	2	51					1		
Arbors	2¼	57					1		
	2½	64	1						
	¾	19							
	⅝	22							
	1⅛	29							
	1⅓	35							
	1½	38							
	1¾	44							
Extensions	Chuck	Thread							
	¼	½ - 20		1			1		
Adapters	⅜	½ - 20	1	1	1			1	1
	¾ Pinned	½ - 18	1						
Pilot Drills	½ Pinned	½ - 18		1	1		1	1	1
	¾ CT	½ - 20				1			
Template	½ CT Pinned	½ - 18				1			
Standard	Chuck	Length							
	½	12 (305)							
Carbide Tipped	Arbor	Saw							
	½ - 20	⅝ - 18							





Pipe Tapping:

The tapping hole should match the inner thread diameter of the male threaded fitting.

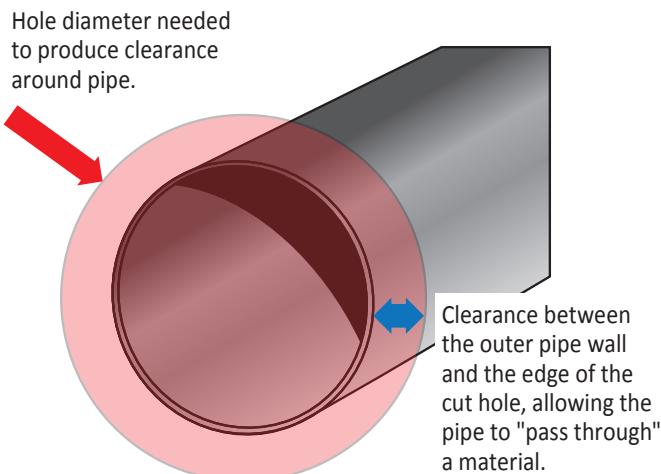


Note: Pipe diameter for 12" and smaller pipes refers to the **ID (inside diameter)** of the pipe.

For larger pipes, diameter is the **OD (outside diameter)** of the pipe.

Pipe Entrance:

The hole diameter necessary so a pipe will pass through a material, with clearance.



Pipe Diameter (ID)	Hole Saw Size					
	Pipe Tap		Pipe Entrance			
in	mm	in	mm	in	mm	
5/8	10			3/4	19	
1/2	13	3/4	19	7/8	22	
3/4	19	7/8	22	1 1/8	29	
1	25	1 1/8	29	1 3/8	35	
1 1/4	32	1 1/2	38	1 3/4	44	
1 1/2	38	1 3/4	44	2	51	
2	51	2 1/4	57	2 1/2	64	
2 1/2	64	2 5/8	67	3	76	
3	76	3 1/4	83	3 5/8	92	
3 1/2	89	3 3/4	95	4 1/8	105	
4	102	4 1/2	114	4 5/8	117	
4 1/2	114	4 3/4	121			



PRECISION HOLE CUTTING METAL



CARBIDE TIPPED HOLE CUTTERS

Precision cutting for high production applications. Makes clean, fast cuts in sheet metal, stainless steel, pipe, conduit, aluminum and composites.

Applications

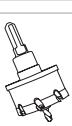
- ▼ Sheet metal
- ▼ Stainless steel
- ▼ Pipe
- ▼ Aluminum
- ▼ PVC/ABS
- ▼ Plastic

Benefits

- ▼ Precision ground triple chip tooth for smooth cutting
- ▼ Two cutting depths offered: 1" (25mm) for pipe and conduit $\frac{3}{16}$ " (4.5mm) for sheet metal
- ▼ Ejector spring for slug removal
- ▼ Step-center pilot bit reduces "break through" impact
- ▼ Grooved gullet directs chips away from the cut
- ▼ Flat shank fits $\frac{3}{8}$ " and larger drill chucks

Items noted in **BOLD** also available in kits. See pages 63.

Diameter	Shank	Shallow		Deep	
		Model	Part	Model	Part
		1/Tube		1/Tube	
$\frac{9}{16}$	14	CTS09	166034	CTD09	167024
$\frac{5}{8}$	16	CTS10	166041	CTD10	167031
$1\frac{1}{16}$	17	CTS11	166058	CTD11	167048
$\frac{3}{4}$	19	CTS12	166065	CTD12	167055
	20	CTS125	166577	CTD125	167437
$1\frac{3}{16}$	21	CTS13	166072	CTD13	167062
$\frac{7}{8}$	22	CTS14	166089	CTD14	167079
$1\frac{5}{16}$	24	CTS15	166096	CTD15	167086
	25	CTS155	166584	CTD155	167444
1	25	CTS16	166102	CTD16	167093
$1\frac{1}{16}$	27	CTS17	166119	CTD17	167109
$1\frac{1}{8}$	29	CTS18	166126	CTD18	167116
$1\frac{3}{16}$	30	CTS19	166133	CTD19	167123
$1\frac{1}{32}$	31	CTS195	166140		
$1\frac{1}{4}$	32	CTS20	166131	CTD20	167130
	32	CTS205	166591	CTD205	167451
$1\frac{5}{16}$	33	CTS21	166164	CTD21	167147
$1\frac{3}{8}$	35	CTS22	166171	CTD22	167154
$1\frac{1}{16}$	37	CTS23	166188	CTD23	167161
	38	CTS235	166607	CTD235	167468
$1\frac{1}{2}$	38	CTS24	166195	CTD24	167178
$1\frac{1}{16}$	40	CTS25	166201	CTD25	167185
$1\frac{1}{8}$	41	CTS26	166218	CTD26	167192
$1\frac{11}{16}$	43	CTS27	166225	CTD27	167208
$1\frac{3}{4}$	44	CTS28	166232	CTD28	167215
$1\frac{13}{16}$	46	CTS29	166249	CTD29	167222
$1\frac{1}{8}$	48	CTS30	166256	CTD30	167239
$1\frac{15}{16}$	49	CTS31	166263	CTD31	167246
	50	CTS315	166614	CTD315	167475
2	51	CTS32	166270	CTD32	167253
$2\frac{1}{16}$	52	CTS33	166621		
$2\frac{1}{8}$	54	CTS34	166287	CTD34	167260
$2\frac{3}{16}$	56	CTS35	166294		
$2\frac{1}{4}$	57	CTS36	166300	CTD36	167277
$2\frac{3}{16}$	59	CTS37	166317		
$2\frac{3}{8}$	60	CTS38	166324	CTD38	167284



PRECISION HOLE CUTTING METAL



STEP DRILLS

Designed for repetitive hole cutting or enlargement for electrical, automotive and sheet metal applications.

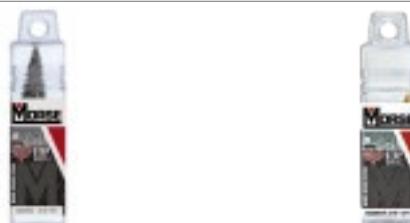
Applications

- ▼ Steel
- ▼ Sheet Metal
- ▼ Aluminum
- ▼ Copper
- ▼ Brass
- ▼ Plexiglass
- ▼ Plasterboard
- ▼ PVC and other plastics

Benefits

- ▼ Reduce secondary operations with trailing flute that automatically deburs holes
- ▼ Increase accuracy when drilling with 3 flats on shank for secure fastening in drill
- ▼ Faster penetration than standard points with split point tip for self starting drills
- ▼ Re-sharpenable cutting edges allows for longer tool life

Items noted in **BOLD** also available in kits. See below.



Description		Shank	High Speed Steel		TiN Coated	
Self-Starting			Model	Part	Model	Part
			1/Box		1/Box	
1/8 - 1/2 by 32nds	1/4 Impact		SDSS01	124409	SDSS01TIN	124522
1/8 - 3/8 by 16ths	1/4 Impact		SDSS02	124416		
1/8 - 1/2 by 16ths	1/4 Impact		SDSS03	124423		
3/16 - 1/2 by 16ths	1/4 Impact		SDSS04	124430		
3/16 - 7/8 by 16ths	1/4 Impact		SDSS05	124447	SDSS05TIN	124539
1/4 - 3/4 by 16ths	1/4 Impact		SDSS06	124454	SDSS06TIN	124546
1/4 - 1 by 16ths	1/4 Impact		SDSS08	124478		
1/4 - 1 1/8 by 16ths	1/4 Impact		SDSS09	124485		
1/4 - 1 3/8 by 8ths	3/8		SDSS10	124492		

Hole Enlarging - 1/2" or Larger Pilot Hole

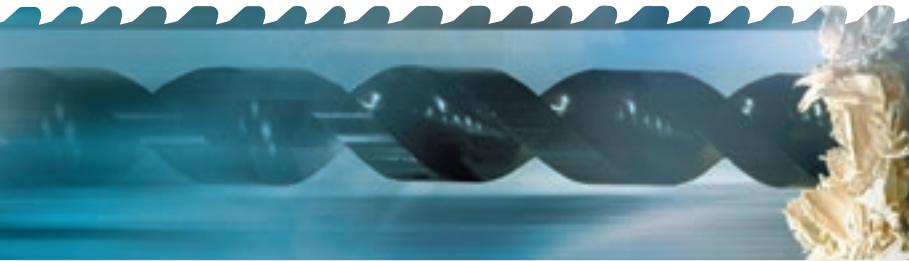
3/16 - 1 by 16ths	1/4 Impact	SDHE11	124508
3/4 - 1 3/8 by 16ths	3/8	SDHE12	124515

Kit - Electrician's/Automotive

High Speed Steel		Components	
Model	Part	Description	Shank
SDKIT01	124607	1/8 - 1/2 by 32nds	1/4 Impact
		3/16 - 7/8 by 16ths	1/4 Impact
		1/4 - 3/4 by 16ths	1/4 Impact



WOOD CUTTING



DOUBLE CUT AUGER BITS

Excellent for deep boring in wood and nail-embedded wood. Applications include landscaping timbers, log and timber frame construction, plumbing and electrical installations.

Benefits

- ▼ Self-feed screw point for effortless boring
- ▼ Double flute design for fast chip removal and less clearing of bit
- ▼ The ability to resharpen edge allows for quick touch ups to maintain edge and life of bit



Bore Diameter		Shank	7½ in		18 in		36 in	
in	mm		Model	Part	Model	Part	Model	Part
			1/Box	1/Box	1/Box	1/Box	1/Box	1/Box
¼	6	¼	WSAB750250	125772				
⁵/₁₆	8	⁵/₁₆	WSAB750312	125789				
³/₈	10	³/₈	WSAB750375	125796	WSAB180375	125505		
⁷/₁₆	11	⁷/₁₆	WSAB750437	124973	WSAB180437	125512		
½	13	⁷/₁₆	WSAB750500	124980	WSAB180500	125529		
⁹/₁₆	14	⁷/₁₆	WSAB750562	124997	WSAB180562	125536	WSAB360562	125178
⁵/₈	16	⁷/₁₆	WSAB750625	125666	WSAB180625	125543	WSAB360625	125185
¹¹/₁₆	17	⁷/₁₆	WSAB750687	125673	WSAB180687	125550	WSAB360687	125192
¾	19	⁷/₁₆	WSAB750750	125680	WSAB180750	125567	WSAB360750	125239
¹³/₁₆	21	⁷/₁₆	WSAB750812	125697	WSAB180812	125574	WSAB360812	125246
⁷/₈	22	⁷/₁₆	WSAB750875	125703	WSAB180875	125581	WSAB360875	125253
¹⁵/₁₆	24	⁷/₁₆	WSAB750937	125710	WSAB180937	125598	WSAB360937	125260
1	25	⁷/₁₆	WSAB751000	125727	WSAB181000	125604	WSAB361000	125277
¹¹/₁₆	27	⁷/₁₆			WSAB181062	125611	WSAB361062	125284
¹½	29	⁷/₁₆	WSAB751125	125734	WSAB181125	125628	WSAB361125	125291
¹¼	32	⁷/₁₆	WSAB751250	125741	WSAB181250	125635		
¹³/₈	35	⁷/₁₆	WSAB751375	125758	WSAB181375	125642		
¹½	38	⁷/₁₆	WSAB751500	125765	WSAB181500	125659		



WOOD CUTTING



SPADE BITS

Fast, deep cutting in wood, plywood, composites and laminates.

Applications

- ▼ Wood
- ▼ Plastic
- ▼ Plywood
- ▼ Formica
- ▼ Wood composites

Benefits

- ▼ Produce a cleaner hole with less vibration with the angled spur
- ▼ Uses bit to pull lead wire back through the drilled hole
- ▼ $\frac{1}{4}$ " (6.4mm) quick change shank size fits all power drills

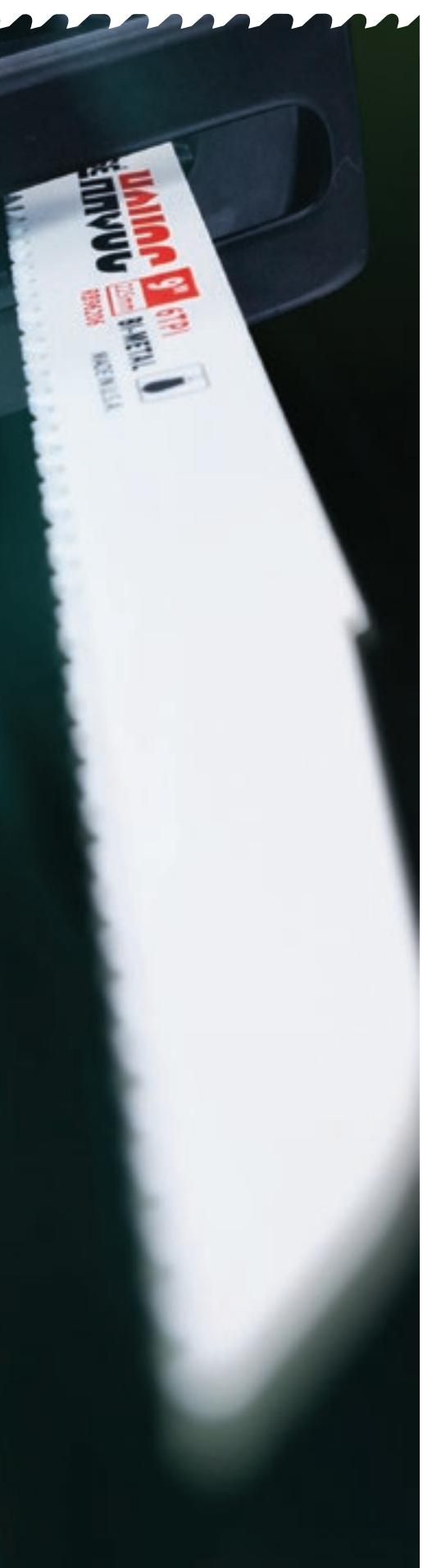


Bore Diameter

10/Box

in	mm	Model	Part
$\frac{1}{4}$	6	WSB250	125000
$\frac{5}{16}$	8	WSB312	125017
$\frac{3}{8}$	10	WSB375	125024
$\frac{7}{16}$	11	WSB437	125031
$\frac{1}{2}$	13	WSB500	125048
$\frac{9}{16}$	14	WSB562	125055
$\frac{5}{8}$	16	WSB625	125062
$\frac{11}{16}$	17	WSB687	125079
$\frac{3}{4}$	19	WSB750	125086
$\frac{13}{16}$	21	WSB812	125093
$\frac{7}{8}$	22	WSB875	125109
$\frac{15}{16}$	24	WSB937	125116
1	25	WSB1000	125123
$1\frac{1}{8}$	29	WSB1125	125130
$1\frac{1}{4}$	32	WSB1250	125147
$1\frac{3}{8}$	35	WSB1375	125154
$1\frac{1}{2}$	38	WSB1500	125161





RECIPROCATING SAW BLADES

Blade Type Application

General Purpose

Carbide Tipped

CTR

Best for cutting hard or abrasive materials including cast iron, stainless steel, fiberglass or nail-free wood.

Bi-Metal

Master Cobalt Hybrid

Designed to cut a variety of materials ranging from wood and plastic, to ferrous and non-ferrous metals.

Metal

Bi-Metal

SParc

Designed for faster cutting and longer blade life when cutting a variety of materials ranging from wood and plastic, to ferrous and non-ferrous metals.

Advanced Edge Power

Master Cobalt Metal

Best for cutting machinable metals up to 1/4" thick where added beam strength is important.

Best for cutting machinable metals up to 1/4" thick. Narrow blade options for radius cutting.

Wood

Bi-Metal

Master Cobalt Wood

Specifically designed for cutting all types of wood, wood composites and nail-embedded wood. Narrow blade options for radius cutting.

Specialty

Demolition

Renovator

Specifically designed for rough-in, plunge cutting and wider cuts in wood, wood composites or nail-embedded wood.

Havoc

Specifically designed for rough-in, plunge cutting and heavier feed pressure in wood, wood composites or nail-embedded wood.

Automotive

Auto Salvage

Optimized for automotive reclamation/recycling or other automotive modifications.

Pipe Boss

Specifically designed for tailpipe and muffler removal or other automotive modifications.

Safety

Fire + Rescue

Specifically designed for rapid cutting for automotive extraction.

Drywall & Plaster

Plaster

Designed for cutting drywall, plasterboard and plaster with wood or metal lath.

Pallet

Pallet Dismantler

Specifically designed for pallet recycling.

Grit

Diamond Grit

For use on extremely hard or abrasive materials including stone, porcelain/ceramics, brick/masonry, architectural stone and composites.

Carbide Grit

Designed to cut materials too thin, hard or abrasive for conventional carbide tipped or bi-metal blades.

GENERAL PURPOSE CARBIDE TIPPED



CTR CARBIDE TIPPED

The Morse CTR Recip is the best choice for thick metal cutting applications between $\frac{3}{16}$ " and $\frac{1}{2}$ ". This high performance blade provides longer cutting life over traditional bi-metal blades.

Applications

- ▼ Cast Iron
- ▼ Threaded Rod
- ▼ Emt Conduit
- ▼ Stainless Steel
- ▼ Steel Plate
- ▼ Non-Ferrous Metal
- ▼ Rubber
- ▼ Steel Studs
- ▼ Rebar
- ▼ Black Iron Pipe
- ▼ Angle Iron
- ▼ Metal Alloys

Benefits

- ▼ More cost effective than bi-metal blades when cutting stainless steel, high strength alloys and other tough metals
- ▼ Precision ground carbide teeth
- ▼ Maximum cutting performance in thick metal applications
- ▼ 1 in x .050" blade body for straighter cuts and less vibration



TPI	in			mm			Model	1/Card		15/Tube	
	Length	Width	Thickness	Length	Width	Thickness		Part	Model	Part	
8	4	1	.050	102	25	1.3	CTR408MC1	405201			
8	6	1	.050	152	25	1.3	CTR608MC1	405218	CTR608MC15	405782	
8	9	1	.050	229	25	1.3	CTR908MC1	405225	CTR908MC15	405799	
8	12	1	.050	305	25	1.3	CTR1208MC1	405232	CTR1208MC15	405805	



GENERAL PURPOSE BI-METAL



MORSE **MASTER COBALT**
HYBRID WOOD METAL

MASTER COBALT® HYBRID WOOD/METAL

The Morse Master Cobalt HYBRID® reciprocating saw blade is the best choice for applications that need a blade that cuts through a variety of materials ranging from wood and plastic to ferrous and non-ferrous metals.

Features

- ▼ Available in .035" and .050" thickness
- ▼ Straight blade body
- ▼ Straight and variable tooth pitch
- ▼ Bi-metal construction

Benefits

- ▼ .035 blades for flexibility in tight spaces
- ▼ .050 blades for rigidity and heavier feed pressure
- ▼ Greater beam strength
- ▼ Speed of cut
- ▼ Broader range of thickness applications
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		25/Tube		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part	Model	Part



Items noted in **BOLD** also available in kits. See page 82.

8/12	12	¾	.050	305	20	1.3	RB1250812T05	400916			RB1250812T50	400923
10/14	6	¾	.050	152	20	1.3	RB6501014TT05	398541			RB6501014TT50	398534
10/14	12	¾	.035	305	20	0.9	RB121014T05	400114			RB121014T50	400107
10/14	12	¾	.050	305	20	1.3	RB12501014T05	402095	RB12501014T25	398640	RB12501014T50	402088



8/12	8	¾	.050	203	20	1.3	RB850812T05	400930			RB850812T50	400947
10	6	¾	.035	152	20	0.9	RB610T05	400398			RB610T50	400381
10	8	¾	.035	203	20	0.9	RB810T05	400473			RB810T50	400466
10	12	¾	.035	305	20	0.9	RB1210T05	400251			RB1210T50	400244
10/14	6	¾	.035	152	20	0.9	RB61014T05	402002			RB61014T50	402019
10/14	6	¾	.050	152	20	1.3	RB6501014T05	399234			RB6501014T50	399227
10/14	8	¾	.035	203	20	0.9	RB81014T05	402118			RB81014T50	402101
10/14	8	1	.050	203	20	1.3	RB8501014T05	402071			RB8501014T50	402064
10/14	12	1	.050	305	20	1.3	RB12501014STT05	398435			RB12501014STT50	398428



10	9	1	.050	229	25	1.3	RB95010T05	404303	RB95010T25	404310		
10	12	1	.050	305	25	1.3	RB125010T05	404242	RB125010T25	404259		

METAL BI-METAL



SPARC®

SParc® RECIPROCATING SAW BLADES

The tooth angle is increased along the arc without sacrificing tooth size. This maintains the TOOTH STRENGTH while lowering cut temperatures and increasing the cutting speed.

Features

- ▼ Increased tooth angle along the arc
- ▼ Arc preserves tooth life
- ▼ SParc's arched shape creates a shifting effect on each cutting stroke

Benefits

- ▼ Faster cutting than traditional blades
- ▼ Eliminates tooth drag on the backstroke which provides a longer blade life
- ▼ Teeth stay sharper/longer

TPI	in			mm			5/Card	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part
10	6	¾	.035	152	20	0.9	RBAC610T05	405409
10	9	¾	.035	229	20	0.9	RBAC910T05	405430
10	12	¾	.035	305	20	0.9	RBAC1210T05	405461
14	6	¾	.035	152	20	0.9	RBAC614T05	405416
14	9	¾	.035	229	20	0.9	RBAC914T05	405447
14	12	¾	.035	305	20	0.9	RBAC1214T05	405478
18	6	¾	.035	152	20	0.9	RBAC618T05	405423
18	9	¾	.035	229	20	0.9	RBAC918T05	405454
18	12	¾	.035	305	20	0.9	RBAC1218T05	405485



SPECIALTY DEMOLITION



RENOVATOR®



RENOVATOR®

The Morse RENOVATOR® reciprocating saw blade is the ultimate heavy duty, demolition/remodeling blade in the market. This blade cuts through wood and metals without leaving frayed or jagged cut edges, no need for additional finishing.

Features

- ▼ Available in .062" (1.60mm) thickness
- ▼ Available in 1" (25mm) blade width
- ▼ Tapered blade body
- ▼ Variable tooth pitch
- ▼ Reinforced tooth design
- ▼ Bi-metal construction

Benefits

- ▼ Provides increased rigidity for more stable cutting in wider cuts
- ▼ 1" (25mm) wide blades offer more beam strength
- ▼ Best for plunge cutting
- ▼ Fast cutting
- ▼ Smooth cut finish
- ▼ High impact resistant tooth
- ▼ Long cutting life
- ▼ Heat and wear resistant

Items noted in **BOLD** also available in kits. See page 82.



TPI	in			mm			3/Card		20/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
8/11	6	1	.062	152	25	1.6	RBR662811T03	392518	RBR662811T20	392525
8/11	9	1	.062	229	25	1.6	RBR962811T03	392532	RBR962811T20	392549
8/11	12	1	.062	305	25	1.6	RBR1262811T03	392556	RBR1262811T20	392563





	<p>HAVOC®</p> <p>The Morse HAVOC® Demolition reciprocating saw blade is specifically designed for "roughing in" applications on the construction site. This blade will cut through all types of wood, wood composites, metal, and nail embedded wood.</p>
<p>Features</p> <ul style="list-style-type: none"> ▼ Available in .062" (1.60mm) thickness ▼ Available in $\frac{7}{8}$" (22mm) blade width ▼ Tapered blade body ▼ Straight tooth pitch ▼ Reinforced, positive rake 6 TPI tooth design ▼ Bi-metal construction 	<p>Benefits</p> <ul style="list-style-type: none"> ▼ Provides minimum deflection for more stable cutting in wider cuts ▼ $\frac{7}{8}$" (22mm) wide blades for increased rigidity and heavier feed pressure ▼ Best for plunge cutting ▼ Fast cutting ▼ High impact resistance ▼ More aggressive cutting ▼ Long cutting life ▼ Heat and wear resistant

Items noted in **BOLD** also available in kits. See page 82.

TPI	in			mm			3/Card		20/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
6	6	$\frac{7}{8}$	.062	152	22	1.6	RB66206T03	398350	RB66206T20	398343
6	9	$\frac{7}{8}$	.062	229	22	1.6	RB96206T03	402422	RB96206T20	402415
6	12	$\frac{7}{8}$	.062	305	22	1.6	RB126206T03	398312	RB126206T20	398305
10	6	$\frac{7}{8}$	.062	152	22	1.6	RB66210T03	398374	RB66210T20	398367
10	9	$\frac{7}{8}$	.062	229	22	1.6	RB96210T03	402446	RB96210T20	402439
10	12	$\frac{7}{8}$	.062	305	22	1.6	RB126210T03	398336	RB126210T20	398329



SPECIALTY AUTOMOTIVE



AUTO SALVAGE®



Features

- ▼ Available in .035" (0.90mm) thickness
- ▼ Available in $\frac{3}{4}$ " (20mm) blade width
- ▼ Straight and variable tooth pitch
- ▼ Bi-metal construction

AUTO SALVAGE

The Morse Auto SALVAGE® reciprocating blade is targeted for any automotive reclamation/recycling, but can also be used for other automotive modifications requiring metal cutting.

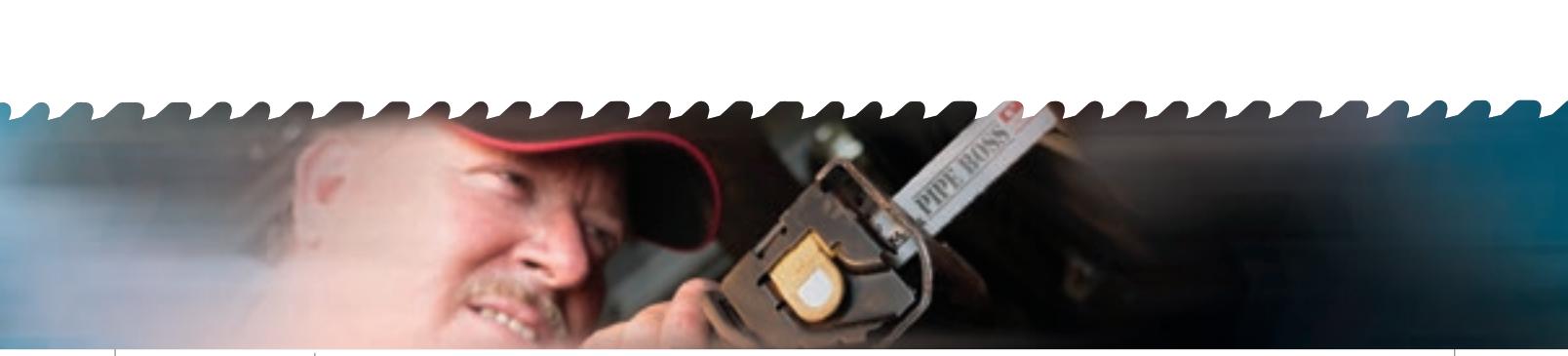
Benefits

- ▼ .035" (0.90mm) thick blades for flexibility in tight spaces
- ▼ Cut between body panels, gets under stripped/rusted fasteners
- ▼ $\frac{3}{4}$ " (20mm) wide blades provide flexibility
- ▼ Allows for cutting in hard to reach places that a cutting torch would otherwise create more damage
- ▼ Smooth cutting action
- ▼ High impact resistant tooth
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
14	8	$\frac{3}{4}$	.035	203	20	0.9	RBSA814T05	395557	RBSA814T50	395564
18	6	$\frac{3}{4}$	.035	152	20	0.9	RBSA618T05	395533	RBSA618T50	395540
18	8	$\frac{3}{4}$	.035	203	20	0.9	RBSA818T05	395571	RBSA818T50	395588





PIPE BOSS®

PIPE BOSS®

The Morse PIPE BOSS reciprocating saw blade is specifically targeted for tailpipe and muffler removal, but can also be used for other automotive modifications where metal cutting is necessary.

Features

- ▼ Available in .050" (1.30mm) thickness
- ▼ Available in 1" (25mm) blade width
- ▼ Straight tooth pitch
- ▼ Bi-metal construction

Benefits

- ▼ .050" (1.30mm) thick blades accept heavier feed pressure
- ▼ 1" (25mm) wide blades provide more rigidity and beam strength
- ▼ Smooth cutting action
- ▼ Heat and wear resistant
- ▼ Long cutting life



TPI	in			mm			25/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part
14	6	1	.050	152	25	1.3	RBPB65014T25	395021
14	9	1	.050	229	25	1.3	RBPB95014T25	395045
14	12	1	.050	305	25	1.3	RBPB125014T25	395069



SPECIALTY SAFETY



FIRE + RESCUE

The Morse FIRE + RESCUE reciprocating saw blade is preferred by professional firefighters who rely on quality and consistency. This blade is specifically designed for automotive extrication.

Features

- ▼ Available in .062" thickness
- ▼ Available in $\frac{7}{8}$ " blade width
- ▼ Straight tooth pitch
- ▼ Optimized set pattern
- ▼ Bi-metal construction

Benefits

- ▼ Provides minimum deflection for more stable cutting in wider cuts
- ▼ $\frac{7}{8}$ " wide blades for increased rigidity and heavier feed pressures
- ▼ Quick and more efficient cutting in multiple wall applications
- ▼ Reduces vibration and operator fatigue
- ▼ Reduces chance for blade binding in cut
- ▼ Long cutting life
- ▼ Heat and wear resistant



Items noted in **BOLD** also available in kits. See page 82.

TPI	in			mm			3/Card			20/Tube		
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part		
10	6	$\frac{7}{8}$	.062	152	22	1.6	RBFR66210WT03	403665	RBFR66210WT20	403511		
10	9	$\frac{7}{8}$	.062	229	22	1.6	RBFR96210WT03	403689	RBFR96210WT20	403528		
10	12	$\frac{7}{8}$	.062	305	22	1.6	RBFR126210WT03	403702	RBFR126210WT20	403504		
14	6	$\frac{7}{8}$	.062	152	22	1.6	RBFR66214WT03	403672	RBFR66214WT20	403542		
14	9	$\frac{7}{8}$	.062	229	22	1.6	RBFR96214WT03	403696	RBFR96214WT20	403559		
14	12	$\frac{7}{8}$	.062	305	22	1.6	RBFR126214WT03	403719	RBFR126214WT20	403535		



SPECIALTY DRYWALL & PLASTER



MORSE[®] PLASTER
PLASTER / LATH & DRYWALL CUTTING

PLASTER

The Morse PLASTER reciprocating saw blade is specifically designed for cutting drywall, plasterboard, and plaster with wood or metal lath. With a "V" style tooth, cut edge fraying/chipping is significantly reduced, requiring less finishing.

FEATURES

- ▼ Available in .050" thickness
- ▼ Blade width of $\frac{3}{4}$ "
- ▼ Special "V" tooth design
- ▼ Bi-metal construction

BENEFITS

- ▼ .050" blades for increased rigidity and heavier feed pressures
- ▼ $\frac{3}{4}$ " wide blades provide flexibility
- ▼ Cuts in both directions
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			Model	5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness		Part	Model	Part	Model
6	6	$\frac{3}{4}$	.050	152	20	1.3	RB606PT05	400350	RB606PT50	400343	



SPECIALTY PALLET

PALLET DISMANTLER

PALLET DISMANTLER

The Morse PALLET DISMANTLER reciprocating saw blade is specifically designed for pallet recycling.

Features

- ▼ Available in $\frac{3}{4}$ " width by .035" thickness
- ▼ Round nose design
- ▼ Straight tooth pitch
- ▼ Narrow kerf

Benefits

- ▼ .035" (0.90mm) blades for greater flexibility to get between boards
- ▼ Helps prevent blade from catching between boards
- ▼ Smooth cutting action
- ▼ Fast cutting
- ▼ Less damage to boards that can be re-used



TPI	in			mm			250/Box		500/Box	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
10	8	$\frac{3}{4}$	.035	203	20	0.9			RB810RRPB500	401425
10	9	$\frac{3}{4}$	.035	229	20	0.9	RB910RRPB250	401661		
10	10	$\frac{3}{4}$	.035	254	20	0.9	RB1010RRB250	401463		





MORSE **AIR SAW BLADES**

Blade Type Application

Metal

Bi-Metal

Designed for fast efficient pneumatic cutting of thin metal including radius cutting. Primarily used in auto body, trailer modification and sheet metal fabrication.



METAL DEVIL METAL CUTTING CIRCULAR SAWS AND BLADES

Blade Type Application

Metal

Stainless Steel	Designed to cut all stainless steel including 1/4" or thinner plate, and 1/8" or thinner walled tubes.
Steel	Ideal for cutting angle iron, steel plate, channel iron, I-beams, pipe and other ferrous metal shapes up to 3/8" plate or wall thickness.
Thin Steel	Used to cut ferrous metals under 1/8" without bending the cut edge including corrugated roofing, sheet metal, conduit and steel studs.
Steel Studs	Specifically engineered to make quick and accurate, square or miter cuts on steel studs.
Aluminum	Designed to cut 3/8" or thinner aluminum parts including extrusions, plate angle and grating.

Saws & Accessories

Circular Saws	Specifically designed for low-RPM metal cutting applications including 0-45° beveled cuts.
Chop Saw	Specifically designed for low-RPM metal cutting applications including 0-45° miter cuts.
Accessories	V-blocks improve efficiency and blade life when cutting round or square materials on the Morse chop saw.

CIRCULAR SAW ACCESSORIES



METAL DEVIL V-BLOCKS

CSP14A01 / 100724

Maximum Material Dimensions to be used with V-Blocks:

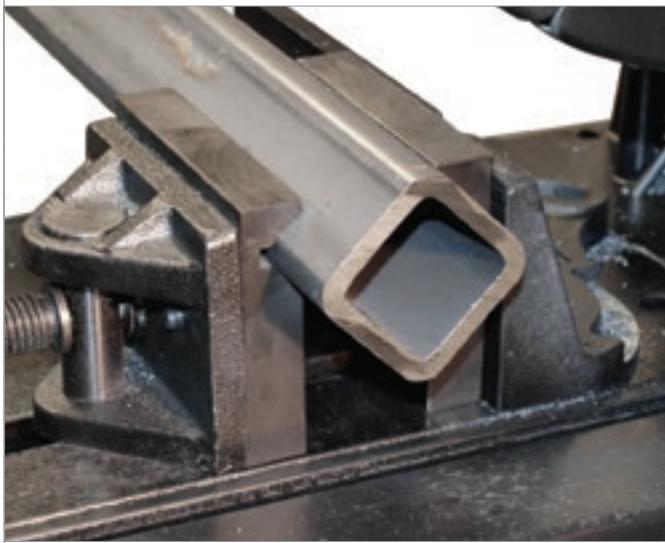
▼ Square 3 7/8"

▼ Round 3"

BENEFITS

- ▼ Durable Steel Body
- ▼ Securely Holds Rounds, Squares and Rectangular Materials
- ▼ Can Employ Several Vice Configurations to Accommodate a Variety of Structural Materials
- ▼ Strengthen The Clamping Performance of the Vice System

- ▼ Improves Cutting Performance on Structural Shapes
- ▼ Optimizes Blade Life
- ▼ Provides Precise Cutting Results
- ▼ Reduces Opportunity for Machine Damage





MORSE PORTABLE BAND SAW BLADES

Blade Type	Application
Metal	
811	General purpose blade designed for fastest cutting and longest life when cutting materials $\frac{1}{4}$ " and thicker. Upgraded performance in applications where 10/14 blades are used.
1216	General purpose blade designed for fastest cutting and longest life when cutting materials $\frac{3}{16}$ " and thinner. Upgraded performance in applications where 18 tooth blades are used.
Master Cobalt	For reduced vibration cutting on machinable metals including stainless steel, pipe, tubing and solids.
Straight Pitch	For use on machinable metals including stainless steel, pipe, tubing and solids.

METAL BI-METAL

MASTER COBALT® VARIABLE PITCH

Featuring bi-metal construction for long blade life and variable pitch teeth for efficient, reduced vibration cutting. Available in standard .020"/.50mm.

For longest blade life, the maximum recommended blade speed is 285 FPM.

Applications

- ▼ Electrical Conduit
- ▼ Strut
- ▼ Threaded Rod
- ▼ Stainless steel
- ▼ Pipe
- ▼ Tubing
- ▼ Solids
- ▼ Structural Pipes
- ▼ Machinable Metals
- ▼ PVC
- ▼ Cast Iron

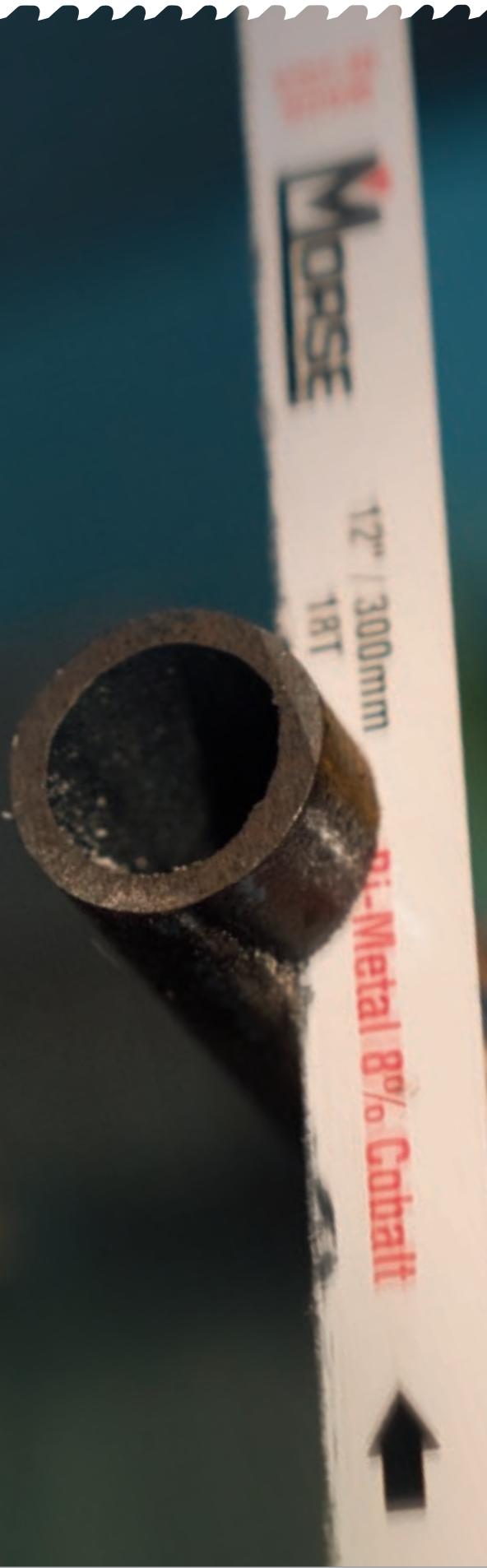
Benefits

- ▼ Variable pitch teeth allow for a broader range of applications
- ▼ Tooth design reduces cutting vibration
- ▼ Shock resistant bi-metal teeth efficiently cut machinable metals
- ▼ Tooth design leaves a clean, weldable finish



Length x Width x Thickness		TPI	Set	3/box		25/Box		Bulk 100/Box	
in	mm			Model	Part	Model	Part	Model	Part
Variable Pitch									
27 $\frac{3}{16}$ X 1/2 X .020	691 X 13 X .50	14/18	Wavy	ZWEP271418MC	001823	ZWEP271418MCB25	005395	ZWEP271418MCB	001847
28 $\frac{3}{16}$ X 1/2 X .020	732 X 13 X .50	10/14	Modified Raker	ZWEP281014MC	001755	ZWEP281014MCB25	005364	ZWEP281014MCB	001786
28 $\frac{3}{16}$ X 1/2 X .020	732 X 13 X .50	14/18	Wavy	ZWEP281418MC	001748	ZWEP281418MCB25	005401	ZWEP281418MCB	001779
32 $\frac{7}{8}$ X 1/2 X .020	835 X 13 X .50	10/14	Modified Raker	ZWEP321014MC	001861	ZWEP321014MCB25	005371	ZWEP321014MCB	003292
32 $\frac{7}{8}$ X 1/2 X .020	835 X 13 X .50	14/18	Wavy	ZWEP321418MC	001892	ZWEP321418MCB25	005418	ZWEP321418MCB	003308
35 $\frac{3}{8}$ X 1/2 X .020	899 X 13 X .50	10/14	Modified Raker	ZWEP351014MC	003049	ZWEP351014MCB25	005388	ZWEP351014MCB	003445
35 $\frac{3}{8}$ X 1/2 X .020	899 X 13 X .50	14/18	Wavy	ZWEP351418MC	003056	ZWEP351418MCB25	005425	ZWEP351418MCB	003452
44 $\frac{7}{8}$ X 1/2 X .020	1140 X 13 X .50	10/14	Modified Raker	ZWEP441014MC	001175	ZWEP441014MCB25	002356	ZWEP441014MCB	002233
44 $\frac{7}{8}$ X 1/2 X .020	1140 X 13 X .50	14/18	Wavy	ZWEP441418MC	001182	ZWEP441418MCB25	002295	ZWEP441418MCB	002240
44 $\frac{7}{8}$ X 1/2 X .025	1140 X 13 X .63	10/14	Modified Raker	ZWEP44251014	001953	ZWEP44251014B25	001991	ZWEP44251014WB	005586
44 $\frac{7}{8}$ X 1/2 X .025	1140 X 13 X .63	14/18	Wavy	ZWEP44251418	001960	ZWEP44251418B25	002004	ZWEP44251418WB	005593





MORSE HAND SAW BLADES

Blade Type Application

Hack Saw Blades

Metal

Bi-Metal Used to cut pipe, tubing solids, wood, plastic or machinable metals.

Hack Saw Frames

Hack Saw Frames For use with hack saw blades including a mini for tight spaces.

Specialty Hand Saws

PVC/ABS Saws & Blades Designed to cut PVC and ABS pipe quickly and efficiently.

Jab Saw Heavy duty, ergonomic handle for use with reciprocating saw blades.

SPECIALTY HAND SAWS



PVC/ABS SAW AND REPLACEMENT BLADES

A handy carbon steel saw for plumbers, electricians and DIY. These saws are light and comfortable with replaceable spring-tempered steel blades. Cuts on the pull stroke for quick, accurate cutting action.

Applications

- ▼ PVC
- ▼ Plastic
- ▼ Wood

Benefits

- ▼ Spring tempered carbon steel blade for superior wear resistance and long life
- ▼ Tooth hardness 65Rc for cutting PVC/ABS
- ▼ Precision-milled teeth for smooth cutting
- ▼ Comfort-grip cast aluminum handle
- ▼ Single screw attachment - no tools required for blade changes

Product	Model	Part	TPI	Blade Included					
				in			mm		
				Length	Width	Thickness	Length	Width	Thickness
12" PVC/ABS Saw	HPVC1201	330107	10	12	2½	.370	305	63.5	9.4
18" PVC/ABS Saw	HPVC1801	330114	10	18	2½	.370	450	63.5	9.4
Blade 1/Card									
PVC/ABS Blade	HPVC812	330121	10	12	2½	.370	305	63.5	9.4
PVC/ABS Blade	HPVC818	330138	10	18	2½	.370	450	63.5	9.4

JABSAW

JAB SAWS

Heavy duty, ergonomic handle to use with either a reciprocating or a hack saw blade. Allows for quick blade changes for various applications.

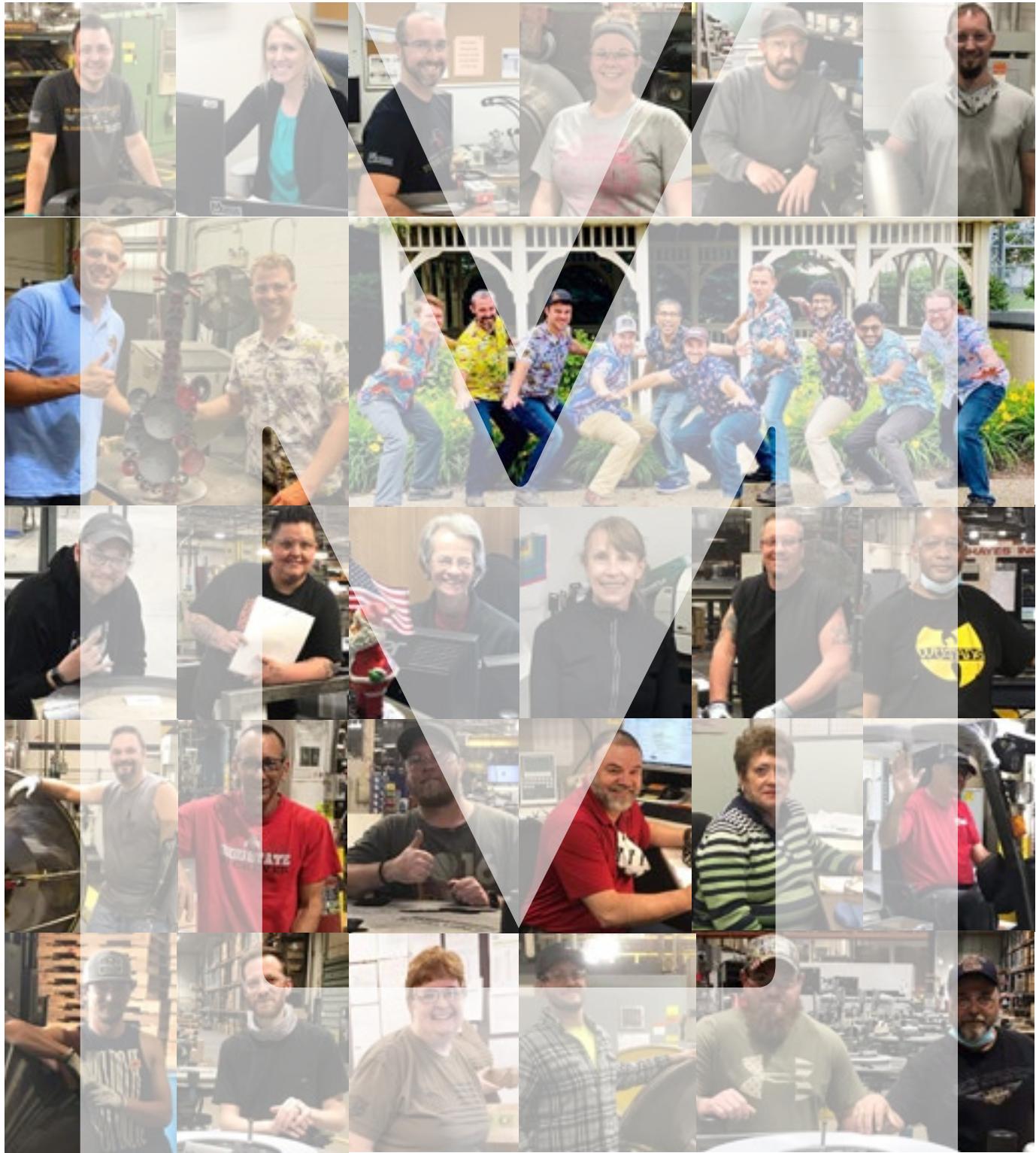


Description	1/Card	
	Model	Part
Jab Saw with 6" .050" (1.30mm) 6 TPI Blade included	JSHRBC01	397063

Minimum order Qty: 6



WE ARE MORSE





WARNING ABOUT SAW BLADE USAGE

CUTTING TOOLS CAN SHATTER AND/OR BREAK UNDER IMPROPER OR SEVERE USE. WEAR SAFETY EQUIPMENT, PARTICULARLY GOGGLES, GLOVES AND HEARING PROTECTION, AT ALL TIMES IN THE VICINITY OF THEIR USE. ALWAYS FOLLOW BAND SAW MACHINE MANUFACTURERS' RECOMMENDATIONS.

THE M. K. MORSE COMPANY WARRANTY

The M. K. Morse Company warrants each new product manufactured and sold by it or one of its authorized distributors only against defects in workmanship and/or materials under normal service, proper installation and use. THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF VERIFIED DEFECTIVE PRODUCTS AND EXCLUDES ANY AND ALL IMPLIED WARRANTY OF MERCHANTABILITY AND ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM ANY USE OF SAID PRODUCTS, INCLUDING INCIDENTAL AND CONSEQUENTIAL DAMAGES. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE THEREOF. The provisions of this warranty and limitation of liability shall not be modified in any respect except by written document signed by an officer of The M. K. Morse Company.





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