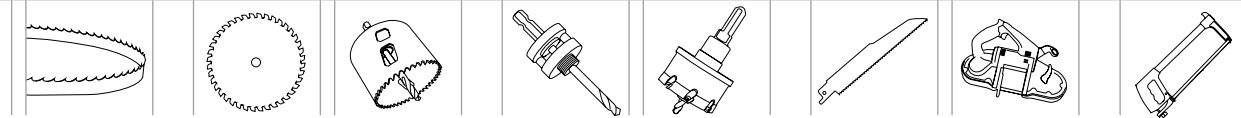
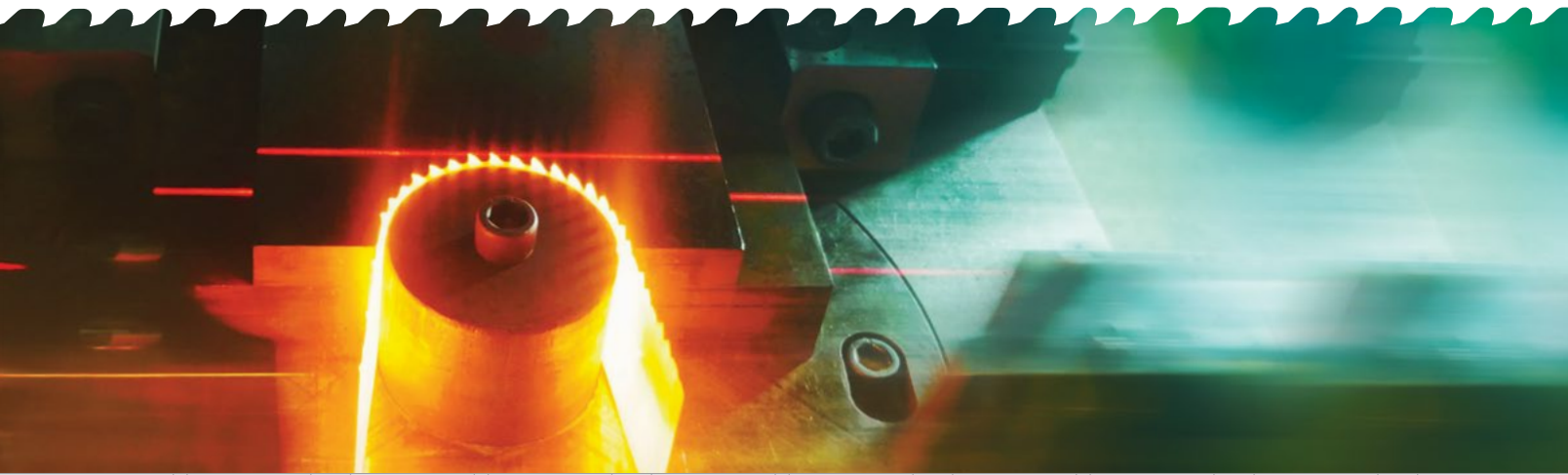
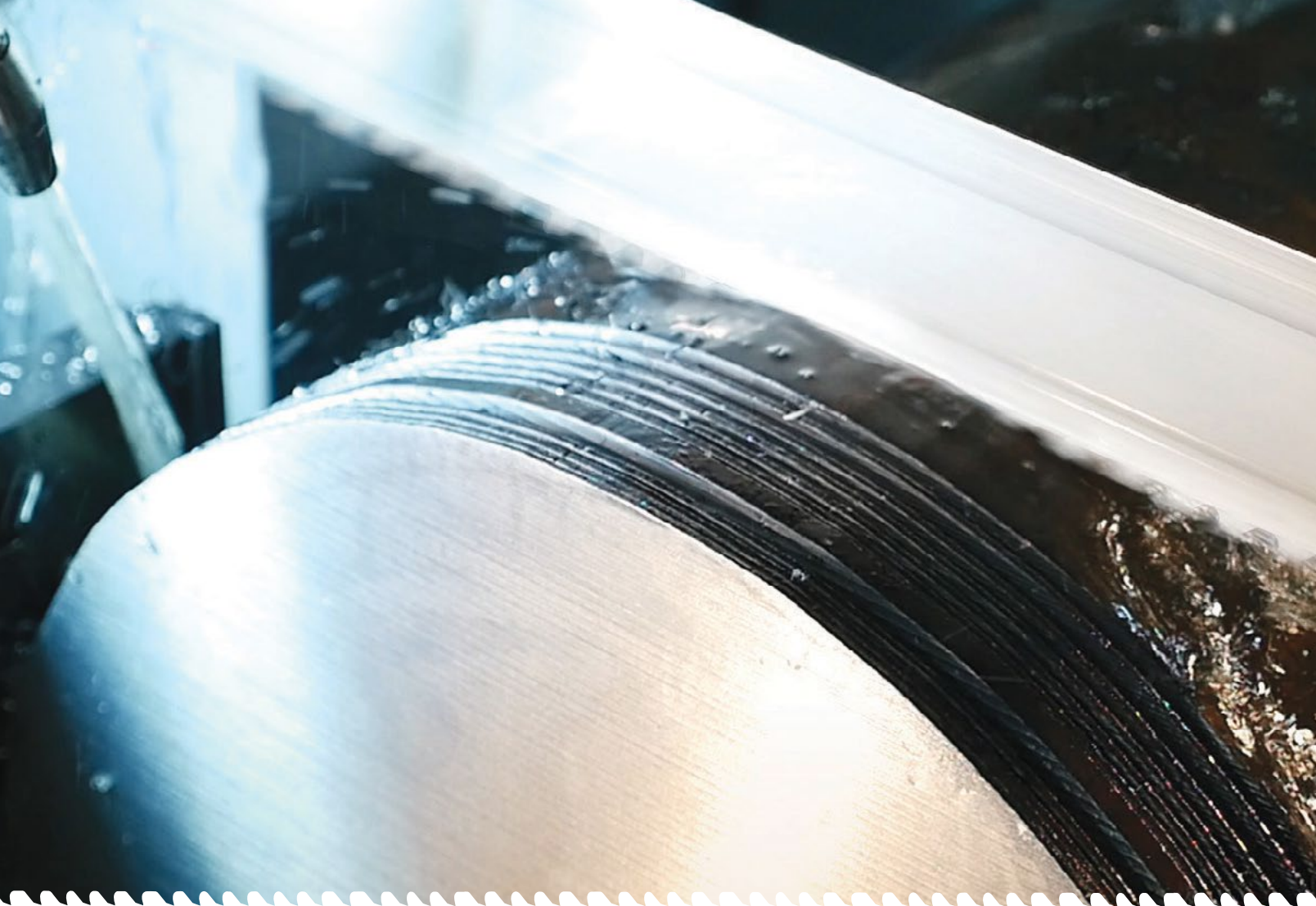


MORSE™

PRODUCT CATALOG





MORSETM

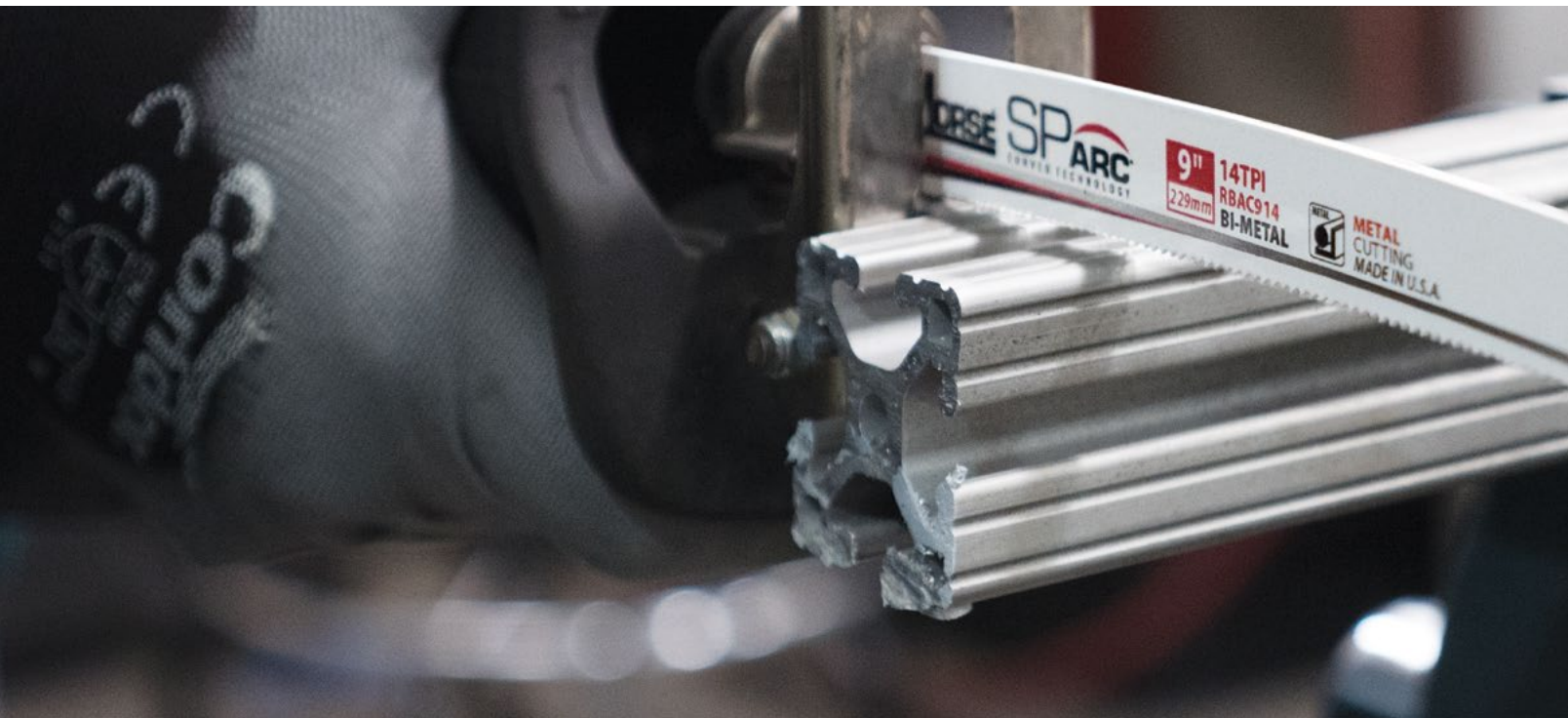


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THE M. K. MORSE COMPANY



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 using power tools, 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.

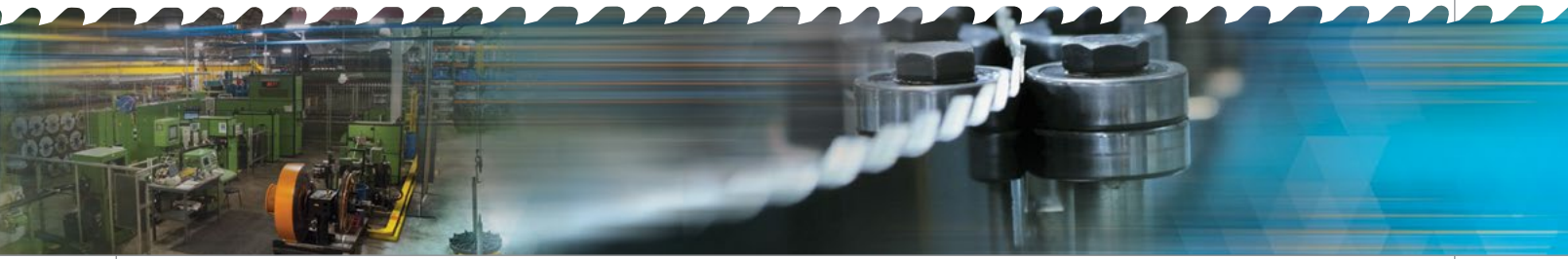
As a second-generation family-owned business, we take pride in providing solutions for our customers. Our team is focused on saw blades, and we work relentlessly to improve the design, manufacture, service and support for these products. Our primary goal is to succeed together, with you, our valued customers.

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

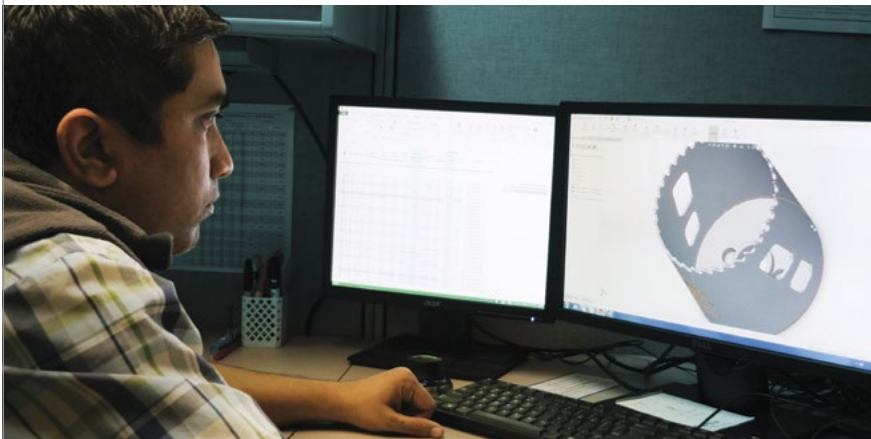
Innovative products are great, but they don't do you any good if you can't get them when you need them. Recognized for the highest levels of service in the industry, you can count on Morse to deliver. Offering next day/2-day shipment for weld-to-length band saw blades and same day/next day shipment for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



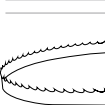


INDUSTRIAL BAND SAW BLADES

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.
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.
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.

Blade Selection		Carbide Tipped					Bi-Metal																		
		PREMIUM	M-FACTOR®				Premium			Structural	M42			Matrix II											
Category	Type	Jawbreaker	GP	GES	CH	FB+	FBS	Independence II	Independence EKS	Maverick	The Morse Achiever 0° Rake	Challenger	Positive Rake	6° Rake	0° Rake	Straight Pitch – Raker	Straight Pitch – Wavy	Straight Pitch – Hook	Positive Rake	0° Rake	Straight Pitch – Raker	Straight Pitch – Wavy	Straight Pitch – Hook		
ABRASIVE WOODS	Abrasive Woods																								
ALUMINUM	Castings																								
COPPER ALLOYS	Beryllium																								
	CDA 220																								
	CDA 360																								
CARBON STEEL	70-30 Copper Nickel																								
	1030																								
	1035																								
	1080																								
BRONZE ALLOYS	1095																								
	932																								
	937																								
	Aluminum Bronze 865																								
	AMPCO 18																								
	AMPCO 21																								
BRASS ALLOYS	AMPCO 25																								
	Lead Tin Bronze																								
CAST IRON	Cartridge / Red Brass (85%)																								
	Naval Brass																								
CASE HARDENED	A48 (Class 20-20ksi)																								
	A48 (Class 40-40ksi)																								
	A48 (Class 60-60ksi)																								
	A536 (120-90-02)																								
	A536 (60-40-18)																								
CHROME ALLOY STEELS	Case Hardened																								
	5045, 5046																								
	5120, 5135																								
	5140, 5160																								
CHROME MOLY STEEL	6117, 6120																								
	4150H																								
COMPOSITES	41L50																								
	Composites																								
DIE STEEL	A10																								
	D2, D3, D4																								
	D7																								
	O1, O2																								
	O6, O7																								
	12L14																								
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																								
	L-6																								
NICKEL BASED ALLOYS	L-7																								
	Hastelloy B																								
	Inconel 625-x-750																								
	Inconel 718																								
	K-R Monel																								
	Monel																								
	Waspalloy																								
	Nimonic 75																								
	Nimonic 90																								
	NI-SPAN-C 962, Rene 41																								
	Monel 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																								
STAINLESS STEEL	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 F, 443																								

- = PRIMARY USE
- = SECONDARY USE
- = MAY ALSO CUT



METAL CARBIDE TIPPED



Do NOT
Break In



JAWBREAKER™



MORSE™

JAWBREAKER™

FEATURING EXCLUSIVE
PLYOMETRIC™
CUTTING ACTION

WITH
KERFLOCK™
TECHNOLOGY

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 super alloys 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, Super alloys, 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
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		Teeth		
in	mm	.75/1	1.5/2	2/3
1½ x .050	41 x 1.30			▼
2 x .063	54 x 1.60	▼	▼	▼
2¾ 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



MORSE
M-FACTOR
GES



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	Teeth			
		.75/1	1.5/2	2/3	3/4
		Variable			
1 ¼ x .042	34 x 1.10			▼	▼
1 ½ x .050	41 x 1.30		▼ ▼	▼	▼
2 x .063	54 x 1.60	▼	▼ ▼	▼ ▼	▼
2 ¾ x .063	67 x 1.60	▼ ▼	▼ ▼	▼	
3 x .063	80 x 1.60	▼ ▼	▼		

▼ Wide Kerf

MORSE
M-FACTOR
GP



M-FACTOR® GP GENERAL PURPOSE

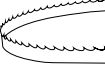
Specially designed for any small billet (<12", 30.5cm) ferrous steel applications for exceptional long life.

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	Teeth			
		.75/1	1.5/2	2/3	3/4
		Variable			
1 x .035	27 x 0.90			▼	▼
1 ¼ x .042	34 x 1.10	▼	▼	▼	▼
1 ½ x .050	41 x 1.30		▼	▼	▼
2 x .063	54 x 1.60	▼			
2 ¾ x .063	67 x 1.60	▼	▼	▼	
3 x .063	80 x 1.60	▼	▼		



METAL CARBIDE TIPPED



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

in	Width x Thickness mm	Teeth			
		1.5/2	2/3	3/4	3
Variable					
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		▼		



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

in	Width x Thickness mm	Teeth	
		3	3 SET
Straight			
½ x .025	13 x 0.60	▼	
¾ x .035	19 x 0.90	▼	
1 x .035	27 x 0.90	▼	▼
1¼ x .042	34 x 1.10	▼	▼



METAL BI-METAL



ME
 * Independence EXS *
 ORSE
 ORSE
 ORSE

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

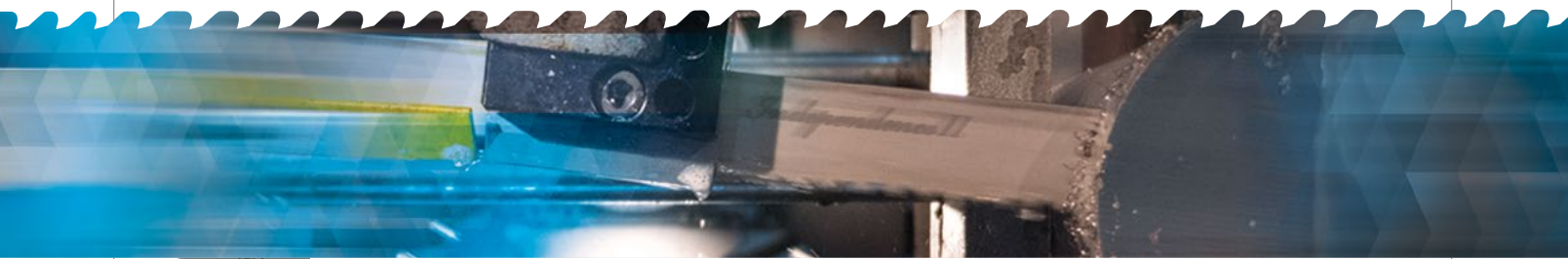
Applications: High production cutting, large solids, stainless steels, exotics

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		Teeth				
in	mm	1/1.5	1.5/2	2/3	3/4	4/6
Variable						
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	▼	▼	▼	▼	



METAL BI-METAL



Independence II
 MORSE
 THE U.S. MORSSE COMPANY



INDEPENDENCE II® HIGH PRODUCTION BI-METAL

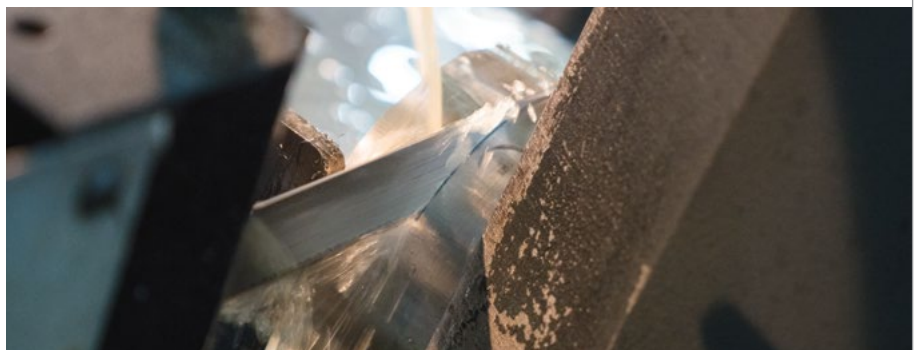
While cutting almost anything, this blade is highly fatigue-resistant to eliminate premature breakage.

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		Teeth			
in	mm	2/3	3/4	4/6	5/7
Variable					
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™

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.

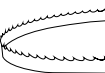
* Maverick is designed to optimize blade longevity at targeted speeds. Running Maverick at increased speeds may reduce blade life benefits.

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		Teeth							
in	mm	.75/1	1.1/1.5	1.4/2.5	1.5/2	2/3	3/4	4/6	5/7
		Variable							
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			▼		▼	▼		
2½ x .063	67 x 1.60	▼	▼		▼	▼	▼		
3 x .063	80 x 1.60	▼	▼						



METAL BI-METAL



THE MORSE ACHIEVER

THE MORSE ACHIEVER®

THE MORSE ACHIEVER® PRODUCTION

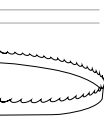
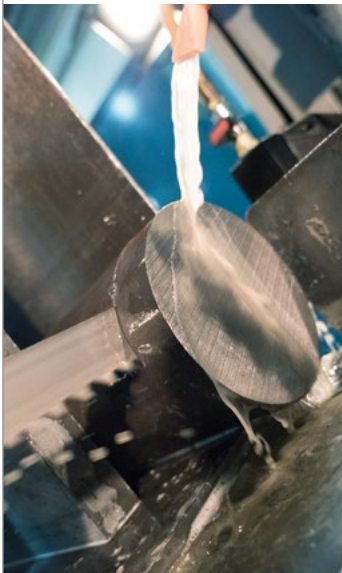
Consistently reliable with excellent durability in mild to difficult materials – layer and bundle cuts and large profiles and solids.

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		Teeth					
		3/4	4/6	5/8	6/10	8/12	10/14
Variable Pitch - 0° Rake							
1 x .035	27 x 0.90		▼	▼	▼	▼	▼
1¼ x .042	34 x 1.10	▼	▼		▼		
1½ x .050	41 x 1.30	▼					



MORSE

CHALLENGER

Made



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		Teeth				
in	mm	2/3	3/4	4/6	5/7	8/11
Variable						
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		▼▼	▼▼	▼	▼
1½ x .050	41 x 1.30	▼▼	▼▼	▼▼	▼	▼
2 x .063	54 x 1.60	▼▼	▼▼	▼▼		
2 ¾ 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

M42

MORSE
BY A. BRONKHORST COMPANY

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

Variable Pitch - Positive Rake

Width x Thickness		Teeth				
in	mm	1.4/2.5	2/3	3/4	4/6	5/7
¼ x .035	19 x 0.90				▼	▼
1 x .035	27 x 0.90			▼▼	▼▼	▼
1¼ x .042	34 x 1.10		▼	▼▼	▼▼	▼
1½ x .050	41 x 1.30			▼▼	▼▼	
2 x .050	54 x 1.30			▼		
2 x .063	54 x 1.60	▼	▼	▼		

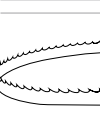
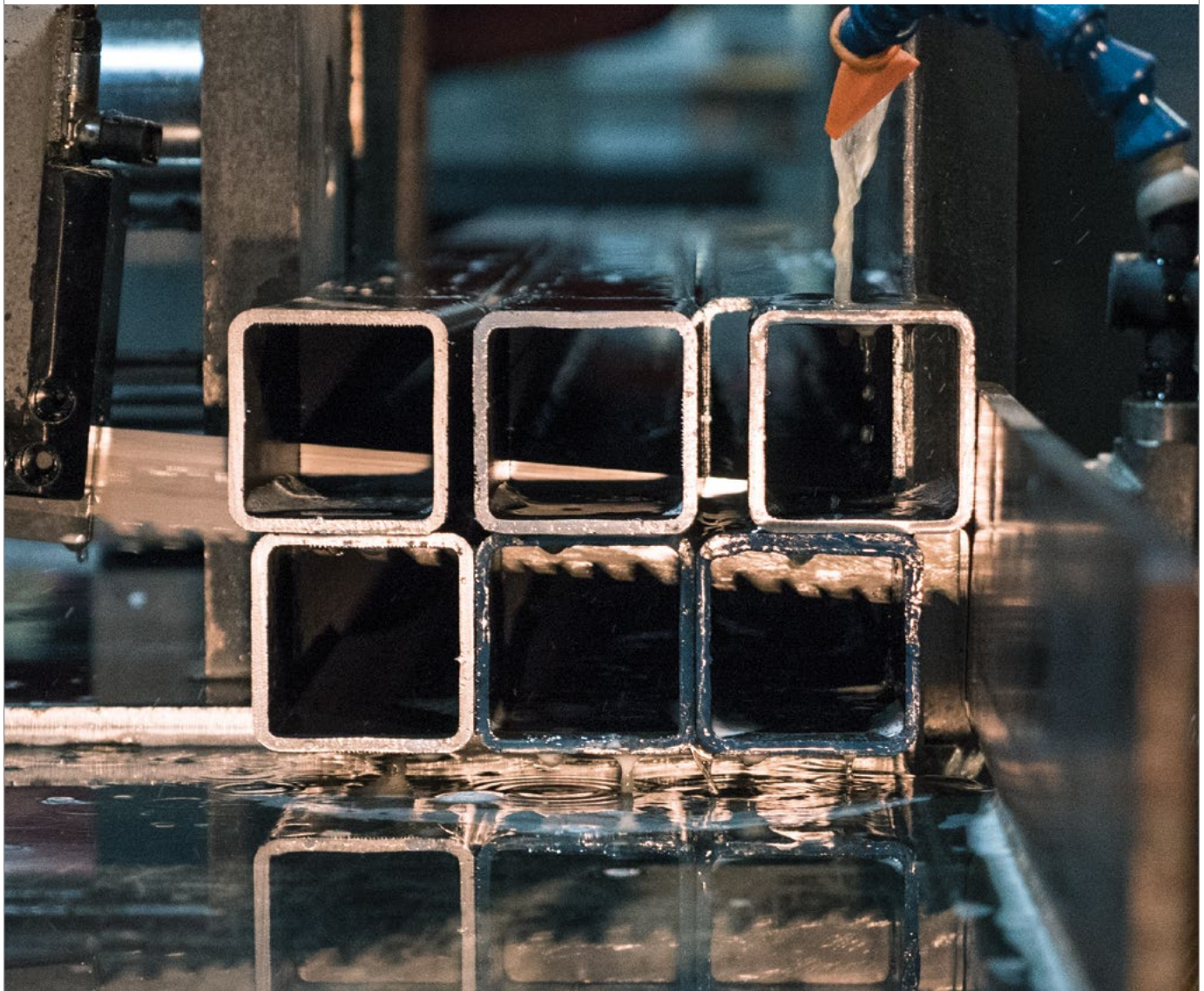
▼ Available with 6° rake angle

Variable Pitch - 0° Rake

Width x Thickness		Teeth						
in	mm	2/3	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							▼
¾ x .035	9 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		▼	▼	▼	▼	▼	▼
1¼ x .042	34 x 1.10	▼	▼	▼	▼		▼	
1½ x .050	41 x 1.30	▼	▼	▼	▼			



Width x Thickness in mm		Straight Pitch Teeth							
		4	6	10	14	1	3	4	6
		Raker				Hook			
¼ x .025	6 x 0.64				▼				▼
¼ x .035	6 x 0.90			▼	▼				
⅜ x .035	9 x 0.90			▼				▼	
½ x .025	13 x 0.64								▼
½ x .035	13 x 0.90			▼	▼			▼	▼
1 x .035	27 x 0.90	▼	▼				▼		
1¼ x .042	34 x 1.10						▼		
2 x .050	54 x 1.30					▼			



METAL BI-METAL



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		Variable Pitch - Positive Rake		
in	mm	2/3	Teeth 3/4	4/6
¼ x .035	19 x 0.90		▼	▼
1 x .035	27 x 0.90		▼	▼
1½ x .050	41 x 1.30	▼	▼	▼

Width x Thickness		Variable Pitch - 0° Rake							
in	mm	4/6	5/8	6/10	8/12	10/14	12/16	14/18	20/24
½ x .020	13 x 0.50					▼	▼	▼	▼
½ x .025	13 x 0.64			▼	▼	▼		▼	
½ x .035	13 x 0.90			▼					
¾ x .035	16 x 0.90					▼			
¾ x .035	19 x 0.90			▼	▼	▼			
1 x .035	27 x 0.90	▼	▼	▼	▼	▼			

Variable Pitch teeth can handle a wider range of application sizes and reduce sawing harmonics for quieter, reduced vibration cutting.

Width x Thickness		Straight Pitch								
in	mm	Teeth								
		6	8	10	14	18	24	14	18	24
		Raker					Wavy			
¾ 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	▼								



MAD

M42

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

8/11

8/12

10/14

Teeth
10

14

4

6

		Variable			Raker		Hook	
¼ x .025	6 x 0.64			▼		▼		▼
¼ x .035	6 x 0.90			▼	▼	▼		
⅜ x .035	9 x 0.90			▼	▼		▼	
½ x .025	13 x 0.64	▼	▼					▼
½ 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

10/14

Teeth

8

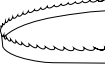
10

14

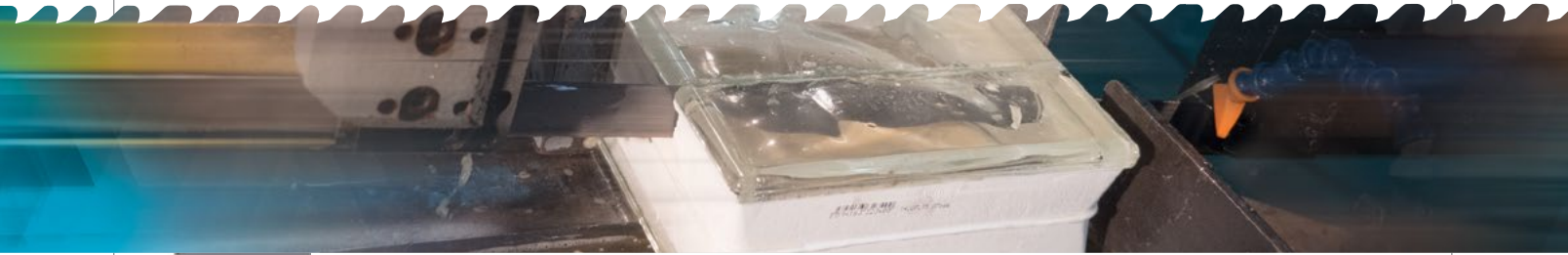
18

4

		Variable			Raker				Hook
⅜ x .025	9 x 0.64				▼	▼			
½ x .025	13 x 0.64	▼	▼	▼	▼	▼	▼	▼	▼
½ x .035	13 x 0.90	▼							



SPECIALTY CARBIDE GRIT



TUNGSTEN CARBIDE GRIT

TUNGSTEN CARBIDE GRIT

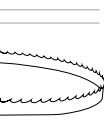
Ideal for cutting ceramics and other materials that are too hard or abrasive for standard bi-metal blades.

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 (>1/4" (6.4mm)	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	
		Grit Type			Grit Type	
		Medium	Medium Coarse	Coarse	Medium	Coarse
¼ x .020	6 x 0.50				▼	
⅜ x .025	9 x 0.64	▼	▼			
½ x .025	13 x 0.64	▼	▼		▼	
¾ x .032	19 x 0.80		▼	▼		
1 x .035	27 x 0.90		▼	▼	▼	▼
1¼ x .042	34 x 1.10			▼		



WOOD CARBIDE TIPPED



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		Teeth	
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

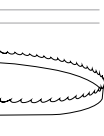
Applications: wood , Low alloy ferrous and non-ferrous metals

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

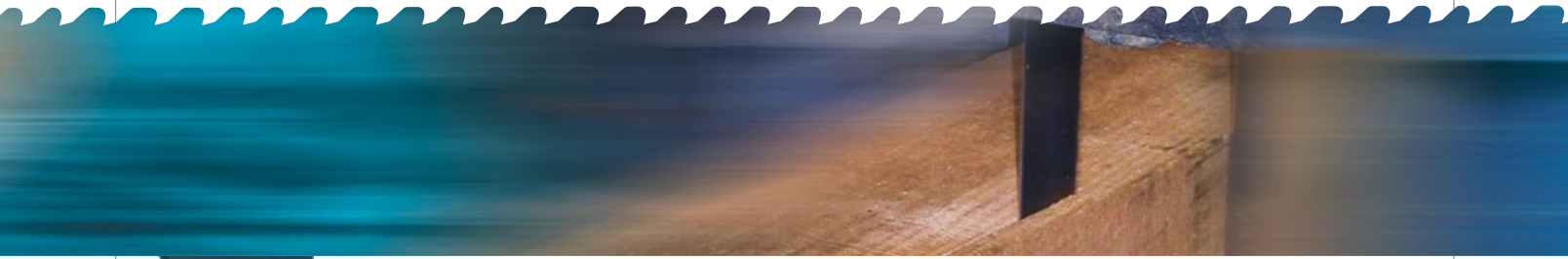


Bi-Metal		Variable	Raker	Hook
QuikSilver B1 Production / Wood Mill				
¾ x .035	19 x 0.90		▼	
1 x .035	27 x 0.90		▼	
1¼ x .042	34 x 1.10	▼	▼	▼
1½ x .050	41 x 1.30	▼		
QuikSilver B2 Production / Wood Mill				
1 x .035	27 x 0.90			▼
1½ x .050	41 x 1.30	▼		

▼ Wide Kerf - 1.3 = 3/4" (20mm) Tooth Spacing ▼ 1.14 Hook = 7/8" (22mm) Tooth Spacing



WOOD CARBON



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		Teeth			
in	mm	1	1.14	1.3	2
		Hook			
1 x .035	27x 0.90			▼▼	▼
1 x .042	27 x 1.10			▼	▼
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		▼		

Hard Edge Hard Back - (HB)

Width x Thickness		Teeth
in	mm	1.3
		Hook
1 x .035	27 x 0.90	▼
1¼ x .035	32 x 0.90	▼
1¼ x .042	32 x 1.10	▼

▼ Wide Kerf ▼ Bright Finish



WOOD CARBON



QUIKSILVER® WOOD MILL

One-piece design to minimize blade fatigue.

Users: Wood cutting with increased fatigue resistance

Applications: Wood cutting

Feature	Benefit	Value
Single construction with hardened tooth tips	Longer blade life	Increased productivity
Flex back and hard back options	Longer blade life for specific applications	Fewer blade changes
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

Width x Thickness		Teeth			
in	mm	1	1.14	1.3	2
		Hook			
1 x .035	27 x 0.90			▼▼	▼▼
1¼ x .042	32 x 1.10	▼	▼▼	▼▼	
1½ x .045	38 x 1.10	▼	▼	▼	
1½ x .055	38 x 1.40		▼		
2 x .035	51 x 0.90	▼	▼	▼	
2 x .042	51 x 1.10	▼	▼	▼	
2 x .055	51 x 1.40	▼			

▼ WMF flexback ▼ WMH hardback



WOOD CARBON



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		Teeth					
in	mm	3	4	2	3	4	6
		Hook ETS		Hook Raker Set			
¼ x .025	6 x 0.64					▼	▼
¼ x .032	6 x 0.80		▼				
⅜ x .025	9 x 0.64	▼			▼	▼	▼
⅜ x .032	9 x 0.80	▼	▼	▼			
½ x .025	13 x 0.64	▼			▼	▼▼	▼▼
½ x .032	13 x 0.80	▼	▼				
⅝ x .032	16 x 0.80				▼	▼	▼
¾ x .032	19 x 0.80	▼	▼		▼	▼	▼

▼ Standard Set ▼ ETS Set ▼ Heavy Set ▼ Double Set Raker

Minimum radius cut for a given blade width

Blade Width		Minimum Radius		Materials Thickness 1/25mm
in	mm	in	mm	
1	25	7 ¼	184	
¾	19	5 ⅞	138	
⅝	16	3 ¾	95	
½	13	2 ½	63	
⅜	10	1 ¼	32	
¼	6	⅝	16	
⅜	5	⅜	10	
¼	3	7 ½	6	



WOOD CARBON



QUIKSILVER® HB HARD BACK BLADES

Stiffer blades offer straighter cuts in wood and metal cutting.

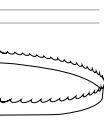
Users: Wood cutting, maintenance, short metal production

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		Teeth																						
in	mm	6	8	10	14	18	24	10	12	14	18	24	32	1.3	2	3	4	6	3	4				
		Raker						Wavy						Hook				Skip						
3/16 x .025	5 x 0.64																							
1/4 x .025	6 x 0.64			▼	▼	▼							▼				▼	▼						
3/8 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 x .042	27 x 1.10														▼									
1 1/4 x .042	32 x 1.10	▼													▼									

▼ Standard Set - Regular Offset ▼ Wide Kerf Raker



WOOD CARBON



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		Teeth																							
in	mm	4	6	8	10	14	18	24	14	18	24	32	1	1.14	1.3	2	3	4	6	3	4	6			
		Raker						Wavy						Hook						Skip					
5/8 x .025	3 x 0.64					▼	▼																		
3/8 x .025	5 x 0.64				▼	▼																▼			
1/2 x .014	6 x 0.30					▼																▼			
1/2 x .020	6 x 0.50																					▼			
1/2 x .025	6 x 0.64			▼	▼	▼	▼	▼										▼	▼		▼	▼			
3/8 x .014	9 x 0.30					▼																▼			
3/8 x .025	9 x 0.64			▼	▼	▼	▼										▼	▼	▼	▼	▼				
3/8 x .032	9 x 0.80															▼	▼								
1/2 x .020	13 x 0.50				▼				▼																
1/2 x .025	13 x 0.64	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼					▼	▼	▼	▼	▼	▼			
3/8 x .032	16 x 0.80								▼								▼	▼	▼						
1/2 x .032	19 x 0.80		▼	▼	▼	▼	▼		▼							▼	▼	▼	▼	▼	▼	▼			
3/4 x .050	19 x 1.30														▼	▼									
1 x .035	27 x 0.90		▼	▼	▼	▼									▼	▼		▼	▼	▼					
1 x .035 *Bright	27 x 0.90														▼										
1 x .042	27 x 1.10														▼										
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 ▼ Wide Kerf Raker
 * "Bright" specifications have an unblued, silver surface finish.



PALLETS BI-METAL & CARBON



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		Teeth
in	mm	5/8
		Variable
1¼ x .042	32 x 110	▼

MATRIX II Bi-Metal

Width x Thickness		Teeth
in	mm	6
		Raker
1¼ x .042	32 x 110	▼

Carbon Hard Back (HB) Special

Width x Thickness		Teeth		
in	mm	5/7	5/8	6
		Variable	Raker	
1¼ x .042	32 x 110	▼	▼	▼



SParc® TECHNOLOGY



SParc® technology is an arc that is ground into the back edge of the blade. The arched profile effectively boosts tooth penetration and chip formation without having to increase machine pressure.

The profile design is already optimized to work on any size cut, so there is no need to order based upon a particular type of cutting such as light, medium or aggressive – all three cutting actions are achieved with one saw blade.

Applications

- ▼ High alloy materials
- ▼ Case-hardened materials
- ▼ Stainless steel
- ▼ Work-hardening applications
- ▼ Production cutting tool steels
- ▼ D2

While cutting, the alternating pattern of straight and arched profiles on the back edge of the blade produces a rocking motion on the cutting edge of the saw.

This arching motion is the same as adjusting the angle of a handheld hacksaw that is alternately angled up and down to produce a quicker cutting action.

Advantages to Users

Up to **40% FASTER CUTTING**

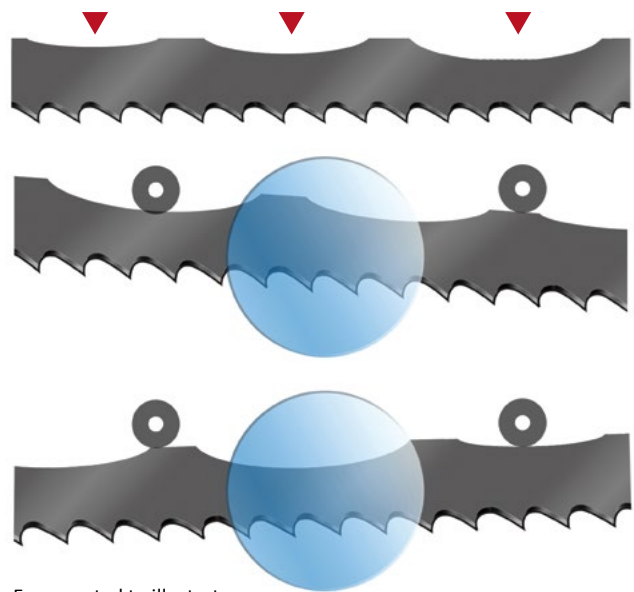
SParc® alternately reduces the number of teeth in the cut via an arching motion on the saw blade and with less teeth in the cut at the same feed pressure means greater penetration into the workpiece.

Up to **50% LONGER LIFE** is possible when compared to stock Carbide Tip Blades.

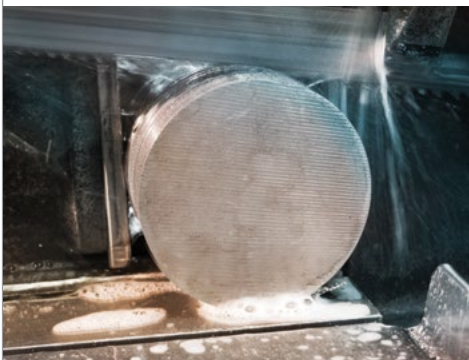
Up to **40% LONGER LIFE** is possible when compared to stock Bi-Metal Blades. While some teeth have increased penetration other teeth have less, or no pressure in the workpiece enabling longer “in-square” cutting.

The best Morse blades used with Morse SPARC®

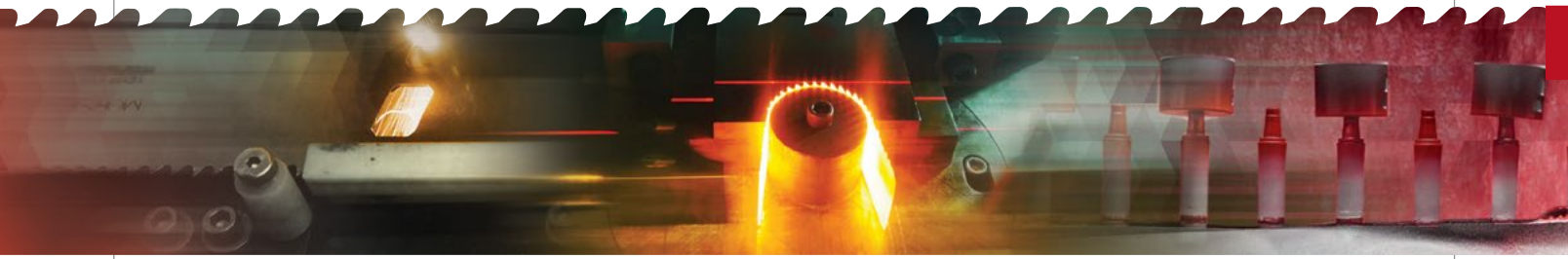
- ▼ M-Factor® CT
- ▼ Maverick®
- ▼ The Morse Achiever®
- ▼ Independence® II
- ▼ Independence® EXS
- ▼ M42



Exaggerated to illustrate blade feature and cutting action.



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	Foundry 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									

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.			

Example 1		Previous Part # ZCTNGES23			
Therefore:	M-Factor GES	1.5 x .050	2/3	100' Coil	
Is shown as:	84	81	23	100C	
New Part #	848123100C				

EXAMPLE 2		Previous Part # ZWEFH02M42HS			
Therefore:	M42 Straight Pitch Heavy Set	3/4 x .035	2	35' 8-1/2"	For 1/2", thus 4
Is shown as:	45	54	02	428	4
New Part #	4554024284				

TOOTH SELECTION GUIDE

MATERIAL SIZE (INCHES)	TEETH PER INCH										MATERIAL SIZE (mm)
30"											762
25											635
20											508
15											381
13											330
11											279
9											229
7											178
5											127
4.5											114
4											102
3.5											89
3											76
2.75											70
2.5											64
2.25											57
2											51
1.75											44
1.5											38
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

WALL THICKNESS (INCHES)	TEETH PER INCH	WALL THICKNESS (mm)
1/16"		- 1.8
1/8"	10/14	- 3.2
3/16"	8/12	- 4.8
1/4"	6/10	- 6.3
5/16"	5/8	- 7.9
3/8"		- 9.5
7/16"		- 11.0
1/2"	4/6	- 12.7
9/16"		- 14.3
5/8"		- 15.8
11/16"		- 17.5
3/4"		- 19.0
13/16"		- 20.6
7/8"		- 22.0
15/16"	3/4	- 23.8
1"		- 25.4
1-1/8"		- 28.6
1-1/4"		- 32.0
1-3/8"	2/3	- 35.0
1-1/2"		- 38.0



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:

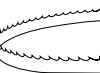
That is, the distance in the cut that each tooth must travel from the point it enters the work piece until it leaves the work piece.

(2) The shape of the work piece

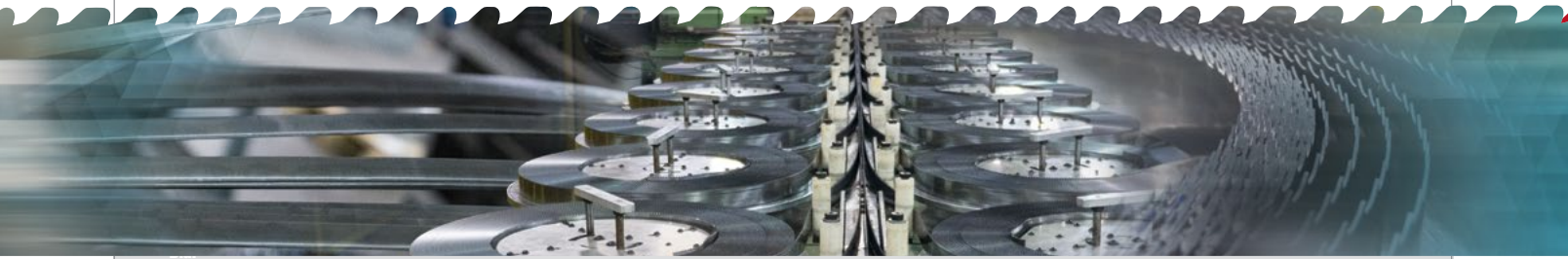
Chart Usage

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.

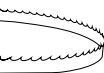
Users: Band saw operators, technicians

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



CUT TIME CALCULATOR

Bar Dia.	Bar Area, In ²	1 IN ² /MIN	2 IN ² /MIN	3 IN ² /MIN	4 IN ² /MIN	5 IN ² /MIN	6 IN ² /MIN	7 IN ² /MIN	8 IN ² /MIN	9 IN ² /MIN	10 IN ² /MIN	11 IN ² /MIN	12 IN ² /MIN	13 IN ² /MIN	14 IN ² /MIN	15 IN ² /MIN	16 IN ² /MIN	17 IN ² /MIN	18 IN ² /MIN
Minutes Per Cut																			
1.00	0.79	.79	.39	.26	.20	.16	.13	.11	.10	.09	.08	.07	.07	.06	.06	.05	.05	.05	.04
1.25	1.23	1.2	.61	.41	.31	.25	.20	.18	.15	.14	.12	.11	.10	.09	.09	.08	.08	.07	.07
1.50	1.77	1.8	.88	.59	.44	.35	.29	.25	.22	.20	.18	.16	.15	.14	.13	.12	.11	.10	.10
1.75	2.41	2.4	1.2	.80	.60	.48	.40	.34	.30	.27	.24	.22	.20	.19	.17	.16	.15	.14	.13
2.00	3.14	3.1	1.6	1.0	.79	.63	.52	.45	.39	.35	.31	.29	.26	.24	.22	.21	.20	.18	.17
2.25	3.98	4.0	2.0	1.3	1.0	.80	.66	.57	.50	.44	.40	.36	.33	.31	.28	.27	.25	.23	.22
2.50	4.91	4.9	2.5	1.6	1.2	1.0	.82	.70	.61	.55	.49	.45	.41	.38	.35	.33	.31	.29	.27
2.75	5.94	5.9	3.0	2.0	1.5	1.2	1.0	.85	.74	.66	.59	.54	.49	.46	.42	.40	.37	.35	.33
3.00	7.07	7.1	3.5	2.4	1.8	1.4	1.2	1.0	.88	.79	.71	.64	.59	.54	.50	.47	.44	.42	.39
3.25	8.30	8.3	4.1	2.8	2.1	1.7	1.4	1.2	1.0	.92	.83	.75	.69	.64	.59	.55	.52	.49	.46
3.50	9.62	9.6	4.8	3.2	2.4	1.9	1.6	1.4	1.2	1.1	1.0	.87	.80	.74	.69	.64	.60	.57	.53
3.75	11.04	11.0	5.5	3.7	2.8	2.2	1.8	1.6	1.4	1.2	1.1	1.0	.92	.85	.79	.74	.69	.65	.61
4.00	12.57	12.6	6.3	4.2	3.1	2.5	2.1	1.8	1.6	1.4	1.3	1.1	1.0	1.0	.90	.84	.79	.74	.70
4.25	14.19	14.2	7.1	4.7	3.5	2.8	2.4	2.0	1.8	1.6	1.4	1.3	1.2	1.1	1.0	.95	.89	.83	.79
4.50	15.90	15.9	8.0	5.3	4.0	3.2	2.7	2.3	2.0	1.8	1.6	1.4	1.3	1.2	1.1	1.1	1.0	.94	.88
4.75	17.72	17.7	8.9	5.9	4.4	3.5	3.0	2.5	2.2	2.0	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0	1.0
5.00	19.64	19.6	9.8	6.5	4.9	3.9	3.3	2.8	2.5	2.2	2.0	1.8	1.6	1.5	1.4	1.3	1.2	1.2	1.1
5.25	21.65	21.6	10.8	7.2	5.4	4.3	3.6	3.1	2.7	2.4	2.2	2.0	1.8	1.7	1.5	1.4	1.4	1.3	1.2
5.50	23.76	23.8	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4	2.2	2.0	1.8	1.7	1.6	1.5	1.4	1.3
5.75	25.97	26.0	13.0	8.7	6.5	5.2	4.3	3.7	3.2	2.9	2.6	2.4	2.2	2.0	1.9	1.7	1.6	1.5	1.4
6.00	28.27	28.3	14.1	9.4	7.1	5.7	4.7	4.0	3.5	3.1	2.8	2.6	2.4	2.2	2.0	1.9	1.8	1.7	1.6
6.25	30.68	30.7	15.3	10.2	7.7	6.1	5.1	4.4	3.8	3.4	3.1	2.8	2.6	2.4	2.2	2.0	1.9	1.8	1.7
6.50	33.18	33.2	16.6	11.1	8.3	6.6	5.5	4.7	4.1	3.7	3.3	3.0	2.8	2.6	2.4	2.2	2.1	2.0	1.8
6.75	35.78	35.8	17.9	11.9	8.9	7.2	6.0	5.1	4.5	4.0	3.6	3.3	3.0	2.8	2.6	2.4	2.2	2.1	2.0
7.00	38.48	38.5	19.2	12.8	9.6	7.7	6.4	5.5	4.8	4.3	3.8	3.5	3.2	3.0	2.7	2.6	2.4	2.3	2.1
7.25	41.28	41.3	20.6	13.8	10.3	8.3	6.9	5.9	5.2	4.6	4.1	3.8	3.4	3.2	2.9	2.8	2.6	2.4	2.3
7.50	44.18	44.2	22.1	14.7	11.0	8.8	7.4	6.3	5.5	4.9	4.4	4.0	3.7	3.4	3.2	2.9	2.8	2.6	2.5
7.75	47.17	47.2	23.6	15.7	11.8	9.4	7.9	6.7	5.9	5.2	4.7	4.3	3.9	3.6	3.4	3.1	2.9	2.8	2.6
8.00	50.27	50.3	25.1	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	4.6	4.2	3.9	3.6	3.4	3.1	3.0	2.8
8.25	53.46	53.5	26.7	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3	4.9	4.5	4.1	3.8	3.6	3.3	3.1	3.0
8.50	56.75	56.7	28.4	18.9	14.2	11.3	9.5	8.1	7.1	6.3	5.7	5.2	4.7	4.4	4.1	3.8	3.5	3.3	3.2
8.75	60.13	60.1	30.1	20.0	15.0	12.0	10.0	8.6	7.5	6.7	6.0	5.5	5.0	4.6	4.3	4.0	3.8	3.5	3.3
9.00	63.62	63.6	31.8	21.2	15.9	12.7	10.6	9.1	8.0	7.1	6.4	5.8	5.3	4.9	4.5	4.2	4.0	3.7	3.5
9.25	67.20	67.2	33.6	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7	6.1	5.6	5.2	4.8	4.5	4.2	4.0	3.7
9.50	70.88	70.9	35.4	23.6	17.7	14.2	11.8	10.1	8.9	7.9	7.1	6.4	5.9	5.5	5.1	4.7	4.4	4.2	3.9
9.75	74.66	74.7	37.3	24.9	18.7	14.9	12.4	10.7	9.3	8.3	7.5	6.8	6.2	5.7	5.3	5.0	4.7	4.4	4.1
10.00	78.54	78.5	39.3	26.2	19.6	15.7	13.1	11.2	9.8	8.7	7.9	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.4

To find the area of bars larger than 10" diameter use the formula " $\pi(3.14) \times \text{radius}^2$ ". Take half the diameter (radius) multiply it by itself. Then multiply that by 3.14. Example: 20" bar. Half the diameter is 10". $10 \times 10 = 100$. $100 \times 3.14 = 314$ square inches.



BladeWizard.com

* Specific speed/feed rates and cut times for all applications and blades can be found on the Morse Blade Wizard



BLADE SPEED/REMOVAL RATES

For use with Bi-Metal Blades*

Stock Dimensions Tooth Pitch	Up to 2" 5/7, 5/8, 4/6, 3/4		From 2" - 4" 4/6, 3/4		From 4" - 6" 3/4, 2/3		From 6" - 10" 1.4/2.5, 1.5/2		From 10" - 12" 1.4/2.5, 1.5/2		From 12" - 16" 1.0/1.5, 1.1/1.5, 7/5/1.0		From 16" - 20" 1.0/1.5, 1.1/1.5, 7/5/1.0	
Material (Annealed)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)
Aluminum Alloys:														
2024 - 5052 6061 - 7075	300	10 - 15	300	10 - 15	300	10 - 15	300	10 - 15	300	10 - 15	300	10 - 15	300	10 - 15
Copper Alloys														
CDA 220	250	8 - 12	230	7 - 11	220	7 - 11	210	6 - 10	200	5 - 9	180	4 - 8	150	4 - 8
CDA 360	325	11 - 15	300	10 - 15	290	10 - 15	275	8 - 12	250	7 - 11	225	6 - 10	200	5 - 10
Copper Nickel (30%)	230	7 - 11	220	7 - 11	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 8	120	4 - 8
Beryllium Copper	180	5 - 9	170	5 - 9	160	4 - 8	140	4 - 8	130	3 - 7	120	3 - 7	110	3 - 7
Bronze Alloys														
AMPCO 18	200	5 - 9	180	5 - 9	170	4 - 8	150	4 - 8	140	4 - 8	130	4 - 8	120	3 - 7
AMPCO 21	170	4 - 8	160	4 - 8	150	4 - 8	140	4 - 8	130	3 - 7	120	3 - 7	110	2 - 6
AMPCO 25	120	2 - 6	110	2 - 6	100	2 - 6	100	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5
Leaded Tin Bronze	320	10 - 15	300	10 - 15	280	10 - 15	260	7 - 11	220	5 - 9	200	4 - 8	180	4 - 8
Aluminum Bronze 865	160	6 - 10	150	6 - 10	140	5 - 9	130	4 - 8	120	3 - 7	110	2 - 6	100	2 - 6
Manganese Bronze	230	7 - 11	220	7 - 11	210	6 - 10	190	6 - 10	170	5 - 9	150	4 - 8	140	3 - 7
932	300	10 - 14	290	10 - 14	270	9 - 13	250	6 - 10	220	5 - 9	200	5 - 9	160	4 - 8
937	270	8 - 12	250	8 - 12	240	7 - 11	210	6 - 10	200	5 - 9	180	5 - 9	160	4 - 8
Brass Alloys														
Cartridge / Red Brass (85%)	240	9 - 13	220	8 - 12	210	8 - 12	200	7 - 11	180	6 - 10	160	4 - 10	140	4 - 10
Naval Brass	220	6 - 10	200	6 - 10	190	6 - 10	170	4 - 8	160	4 - 8	140	4 - 8	130	4 - 8
Carbon Steels														
1008, 1013, 1015, 1018, 1035, 1045, 1048	300	11 - 15	280	10 - 14	260	10 - 14	240	8 - 12	220	6 - 10	200	6 - 10	180	4 - 8
1030	270	8 - 12	250	8 - 12	240	7 - 11	210	6 - 10	200	5 - 9	180	5 - 9	160	4 - 8
1060, 1065	230	7 - 11	220	7 - 11	210	6 - 10	190	6 - 10	170	5 - 9	150	4 - 8	140	3 - 7
1080, 1095	220	7 - 11	210	6 - 10	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 10	130	4 - 10
Free Machining Steels														
1108, 1111, 1112, 1113, 1115, 1137, 1145, 1151, 1212, 1213	300	11 - 15	280	10 - 14	260	10 - 14	240	8 - 12	220	6 - 10	200	6 - 10	180	4 - 8
1215	350	12 - 16	330	12 - 16	310	12 - 16	290	10 - 14	280	8 - 12	260	8 - 12	240	6 - 10
12L14	380	12 - 16	360	12 - 14	340	12 - 14	320	10 - 14	300	8 - 12	260	8 - 12	230	6 - 10
Structural Steel														
A36	280	10 - 14	260	10 - 14	240	10 - 14	220	8 - 12	200	8 - 12	180	6 - 10	160	6 - 10
Manganese Steels														
1320, 1330, 1345	270	8 - 12	250	8 - 12	240	7 - 11	210	6 - 10	200	5 - 9	180	5 - 9	160	4 - 8
1513, 1524, 1536	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
1541, 1572	220	7 - 11	210	6 - 10	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 10	130	4 - 10
1524	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
Molybdenum Steels														
4017, 4024, 4032, 4042	270	8 - 12	250	8 - 12	240	7 - 11	210	6 - 10	200	5 - 9	180	5 - 9	160	4 - 8
4047, 4066	220	7 - 11	210	6 - 10	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 10	130	4 - 10
Chrome Moly Steels														
4130, 4140, 4150, 4150H	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
4142, 4150	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
Chrome Alloy Steels														
5045, 5046, 5120, 5135	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
5140, 5160, 6117, 6120	220	7 - 11	210	6 - 10	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 10	130	4 - 10
50100, 52100	180	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
6150	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
Nickel Chrome-Moly Steels														
4317, 4320, 8615, 8620, 8627, 9747, 9763	230	7 - 11	220	7 - 11	210	6 - 10	190	6 - 10	170	5 - 9	150	4 - 8	140	3 - 7
4337, 4340	210	5 - 9	200	5 - 9	190	5 - 9	170	4 - 8	160	4 - 8	140	3 - 7	130	3 - 7
8630, 8640, 8645, 8647, 8660, 8715, 8750, 9437, 9445	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
9310, 9317	170	2 - 6	160	2 - 6	150	1 - 5	130	1 - 5	120	1 - 5	110	1 - 5	100	1 - 5
9840, 9850	220	7 - 11	210	6 - 10	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 10	130	4 - 10
E9310	180	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
Nickel-Moly Steels														
4608, 4621	220	7 - 11	210	6 - 10	200	6 - 10	180	5 - 9	160	5 - 9	140	4 - 10	130	4 - 10
4640	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
4812, 4820	180	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
Silicon Steels														
9255, 9260	180	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
9261, 9262	170	2 - 6	160	2 - 6	150	1 - 5	130	1 - 5	120	1 - 5	110	1 - 5	100	1 - 5
Low Alloy Tool Steels														
L-6, L-7	180	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
Water-Hardening Tool Steels														
W-1	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7

* Reduce speeds by 50% for carbon blades. For carbide tipped blades, ask your Morse sales contact.

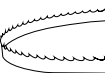
For use with Bi-Metal Blades*

Stock Dimensions Tooth Pitch	Up to 2" 5/7, 5/8, 4/6, 3/4		From 2" - 4" 4/6, 3/4		From 4" - 6" 3/4, 2/3		From 6" - 10" 1.4/2.5, 1.5/2		From 10" - 12" 1.4/2.5, 1.5/2		From 12" - 16" 1.0/1.5, 1.1/1.5, .75/1.0		From 16" - 20" 1.0/1.5, 1.1/1.5, .75/1.0	
Material (Annealed)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)
Die Steels														
D-2, D-3	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	70	1 - 5	60	1 - 5
D-7	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
A-2	180	4 - 8	170	4 - 8	160	4 - 8	150	4 - 8	130	3 - 7	110	3 - 7	100	2 - 6
A-6	140	2 - 6	130	2 - 6	130	2 - 6	120	1 - 5	110	1 - 5	100	1 - 5	90	1 - 5
A-10	110	2 - 6	100	2 - 6	100	2 - 6	90	2 - 6	80	2 - 6	70	2 - 6	60	2 - 6
O-1, O-2, O-6	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
Hot Work Tool Steels														
H-11, H12, H-13, H-13 Mod, H21	150	2 - 6	140	2 - 6	130	2 - 6	120	1 - 5	110	1 - 5	100	1 - 5	90	1 - 5
H-22, H-24 H-25	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
High Speed Tool Steels														
M-1	140	2 - 6	130	2 - 6	130	2 - 6	120	1 - 5	110	1 - 5	100	1 - 5	90	1 - 5
M-2, M-3, M-10	110	2 - 6	100	2 - 6	100	2 - 6	90	2 - 6	80	2 - 6	70	2 - 6	60	2 - 6
M-4, M-42, T-1	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
T-15	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
Mold Steels														
P-3	190	5 - 9	180	5 - 9	170	5 - 9	150	4 - 8	140	4 - 8	130	4 - 8	120	3 - 7
P-20	180	4 - 8	170	4 - 8	160	4 - 8	150	3 - 7	140	3 - 7	130	3 - 7	110	2 - 6
Shock Resistant Tool Steels:														
S-1, S-7	180	4 - 8	170	4 - 8	160	4 - 8	150	4 - 8	130	3 - 7	110	3 - 7	100	2 - 6
S-2, S-5	150	2 - 6	140	2 - 6	130	2 - 6	120	1 - 5	110	1 - 5	100	1 - 5	90	1 - 5
Stainless Steels:														
201, 202, 302, 304, 321, 347	110	2 - 6	100	2 - 6	100	2 - 6	90	2 - 6	80	2 - 6	70	2 - 6	60	2 - 6
303,303F	120	2 - 6	110	2 - 6	100	2 - 6	100	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5
308, 309, 310, 330, 430, 446	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
314, 316, 317, 440 A, 440 B, 440 C, 17-4 PH, 15-5 PH	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
410, 420, 420F, 440 F, 443	140	2 - 6	130	2 - 6	130	2 - 6	120	1 - 5	110	1 - 5	100	1 - 5	90	1 - 5
416, 430F	180	4 - 8	170	4 - 8	160	4 - 8	150	3 - 7	140	3 - 7	130	3 - 7	110	2 - 6
Nickel Alloys														
2317	190	5 - 9	180	5 - 9	170	5 - 9	150	4 - 8	140	4 - 8	130	4 - 8	120	3 - 7
2330, 2345	170	2 - 6	160	2 - 6	150	1 - 5	130	1 - 5	120	1 - 5	110	1 - 5	100	1 - 5
2512, 2517, Monel R	140	2 - 6	130	2 - 6	130	2 - 6	120	1 - 5	110	1 - 5	100	1 - 5	90	1 - 5
Monel, Inconel 625, Inconel 718, Nimonic 90, NI-SPAN-C 962 Rene 41	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
Monel K-500, Monel KR, Inconel 600, Hastelloy B, Waspalloy, Nimonic 75, Rene 88	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
Duranickel	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
Titanium Alloys														
TI-4 AL-4 MO, TI-140 A, 2CR-2M0 TI-150 A, MST-GAL 4V	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
CP Titanium TI-6Al-4V 99% PURE TITANIUM	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
Cast Iron														
A536 (120-90-02)	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
A536 (60-40-18), A48 (Class 20-20ksi), A48 (Class 40-40ksi), A48 (Class 60-60ksi)	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7

* Specific speed/feed rates and cut times for all applications and blades can be found on the Morse Blade Wizard







BladeWizard.com

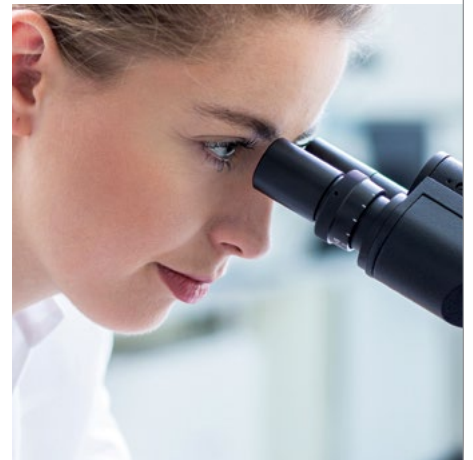


BLADE OPTIMIZATION

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.

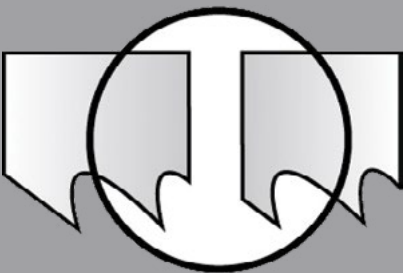
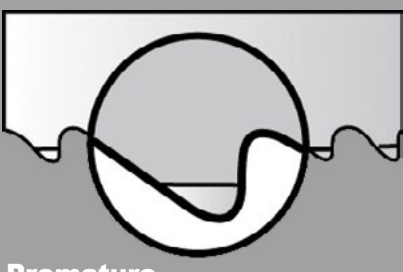
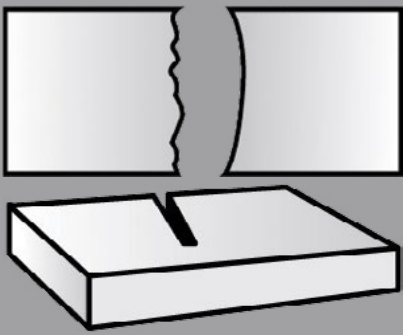
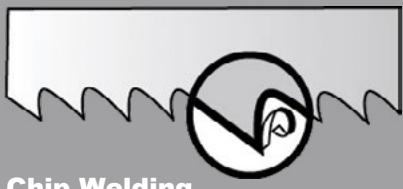
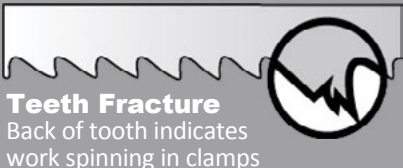

A good analogy is that of writing with a freshly sharpened wooden pencil.

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

RECOMMENDED BREAK-IN PROCEDURE

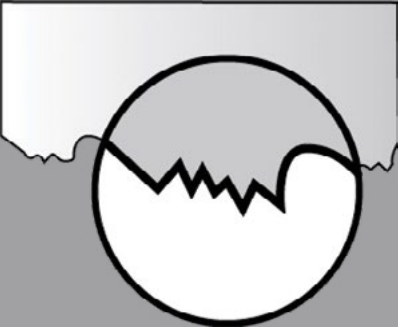
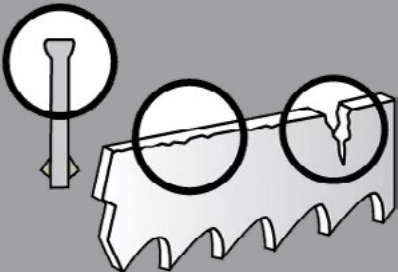
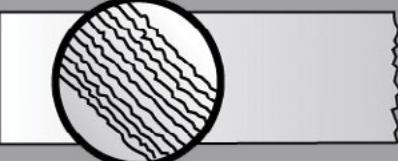
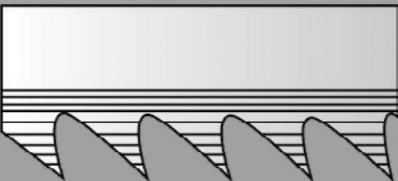


- Maintain proper blade speed for the material to be cut.
- Reduce blade feed pressure or feed rate by 50% for the first 50 – 100in² or 322 – 645cm² of material cut.
- Gradually increase feed pressure or feed rate after break-in to target pressure or rate.

BLADE PROBLEM SOLVING

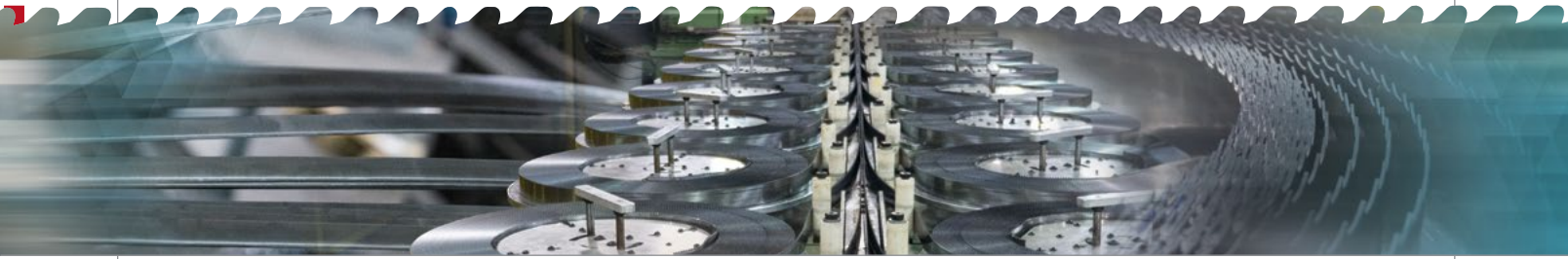
Problem	Problem Cause	Solution
 <p>Premature Blade Breakage Straight Break indicates fatigue</p>	<ul style="list-style-type: none"> ▼ Incorrect tooth pitch ▼ Blade tension incorrect ▼ Side guides too tight ▼ Damaged or misadjusted blade guides ▼ Excessive feed/force ▼ Incorrect cutting fluid ▼ Wrong 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



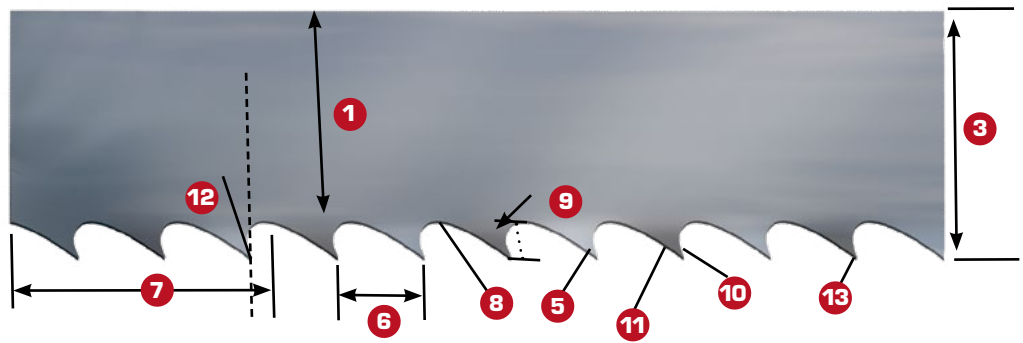
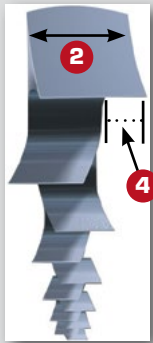
BLADE PROBLEM SOLVING

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

ANATOMY OF A SAW BLADE



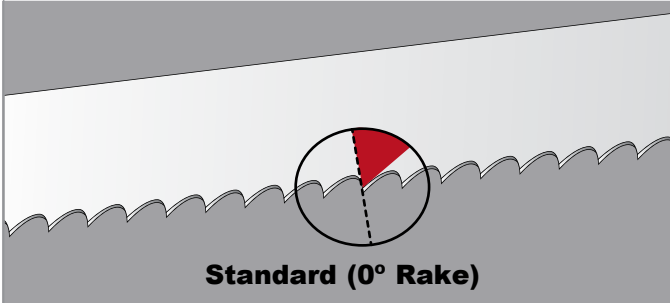
Although it looks like a flat piece of metal with teeth, a quality industrial band saw blade is actually a sophisticated cutting tool. Its ability to efficiently cut through tough metals, composite materials, plastics, and woods depends on a variety of interrelated factors such as the design, spacing 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.



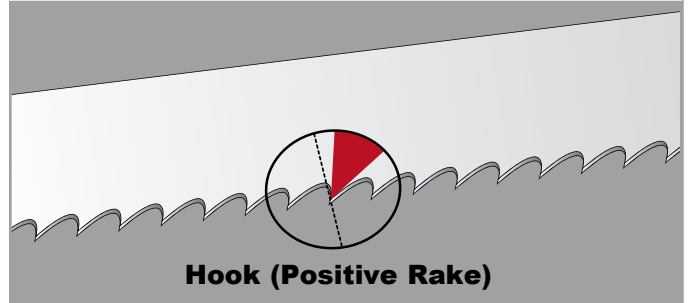
- 1 Blade Backer** The body of the blade not including tooth portion
- 2 Gauge**..... The thickness of the blade
- 3 Width**..... The tip of tooth to back of blade
- 4 Set**..... The positioning of teeth right or left
- 5 Tooth** The cutting portion of the saw blade
- 6 Tooth Pitch**..... The distance 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



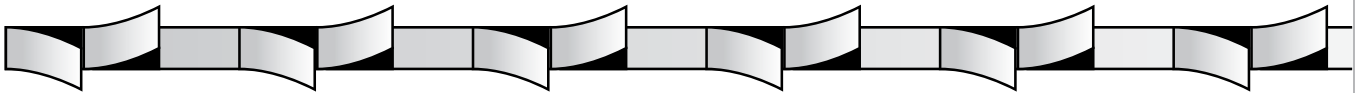
Standard (0° Rake)



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



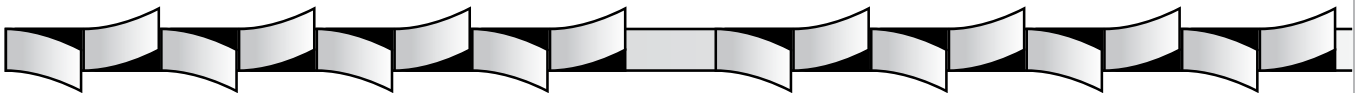
Recurring sequence of teeth - one set right, one set left, and one unset.

Modified Raker (double set raker)



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

Variable Pitch Modified Raker



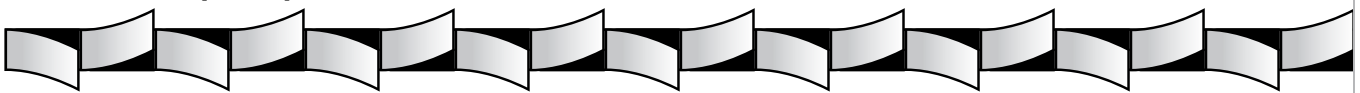
Set sequence depends on the number of teeth in the variable pitch tooth pattern.
Recurring sequence with more than two set teeth before an unset tooth.

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



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

Complete by:

Date:

User Information

Company:

Address:

Contact:

Phone No.:

Distributor Information

Company:

Address:

Contact:

Phone No.:

Fax No.:

e-mail:

Current Blade Information

Manufacturer:

Length:

Width:

Thickness:

Tooth Pitch:

Type: Carbon Matrix M42 Other

Monthly blade usage:

Current blade distributor:

Current blade cost: \$ (ea.)

Machine Information

Make:

Model:

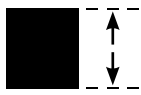
Vertical Horizontal

Blade Speed (sfm):

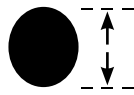
Feed Rate:

Application Information

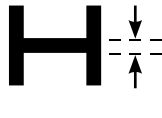
Solid Square



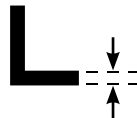
Solid Round



I-Beam



Angle Iron



Channel Iron



Round Tubing



Square Tubing



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

Grade

Non-Ferrous

Mild Carbon Steels

Tool Steels

Stainless Steels

Super Alloys

Other

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

Application

Metal

Thin Kerf
Cermet Tipped

Cermet tipped blades are optimized for carbon and high alloy steels.

Thin Kerf
Carbide Tipped

Carbide tipped blades are optimized for stainless steel, high alloy steel, and aluminum.



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.

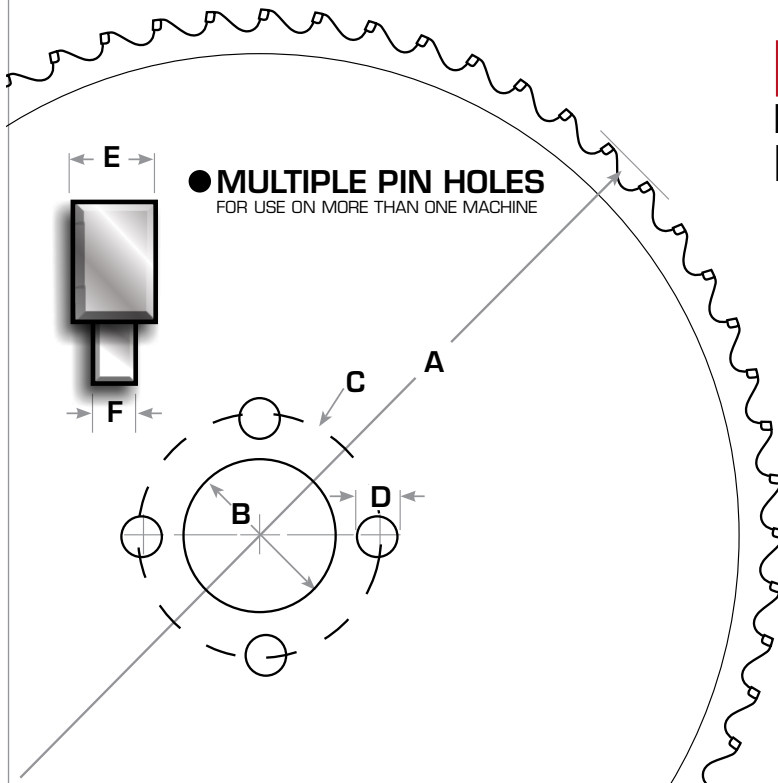
MADE IN U.S.A.



Features & Benefits

- ▼ Ferrous and non-ferrous metal cutting
- ▼ Efficient cutting for ½ to 6 inch diameter
- ▼ Most effective in solids

THIN KERF CERMET TIP 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 CERMET TIPPED



THIN KERF CERMET TIPPED

Morse Revolution blades are high performance industrial circular saw blades specifically engineered for use with thin kerf metal cutting industrial circular saw machines. Cermet tipped blades are optimized for carbon and high alloy steels. Made for cutting solids from ½ to 6 inches depending on machine model and blade diameter.

Applications

- ▼ Carbon steels
- ▼ High alloy steels

Benefits

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

Diameter		Kerf (mm)	Teeth	Pin Hole	Model	Part	Machine Example
Blade (mm)	Inner (mm)						
250	32	2.0	72	4/11/63 and 4/9/50	ICTNK25072SB	201346	Exact Cut Kasto (Wagner) Nishijimax Tsune
250	32	2.0	80		ICTNK25080SB	201360	
285	32	2.0	60	4/11/63 and 4/9/50	ICTNK28560SB	201384	Everising Kasto Nishijimax Tsune
285	32	2.0	72		ICTNK28572SB	201551	
285	32	2.0	80		ICTNK28580SB	201407	
285	32	2.0	100		ICTNK285100SB	201568	
360	40	2.7	60	4/11/90	ICAM36060SB	200356	Amada Behringer Daito / Delta Everising Mega Missler
360	40	2.7	80		ICAM36080SB	200370	
360	40	2.7	100		ICAM360100SB	200394	
360	50	2.7	60	4/14/80 and 4/16/80	ICNT36060SB	201506	Endo Kaltenbach Kasto Nishijimax Tsune
360	50	2.7	80		ICNT36080SB	201513	
360	50	2.7	100		ICNT360100SB	201520	
420	50	2.7	60	4/16/80	ICTS42060SB	200349	Endo Tsune
420	50	2.7	80		ICTS42080SB	200363	
460	50	2.7	60	4/16/80 and 4/21/90	ICNI46060SB	202015	Amada Everising Nishijimax
460	50	2.7	80		ICNI46080SB	202022	
460	50	2.7	100		ICNI460100SB	202039	



METAL CARBIDE TIPPED



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.

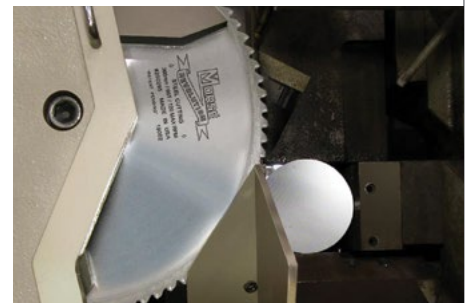
Applications

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

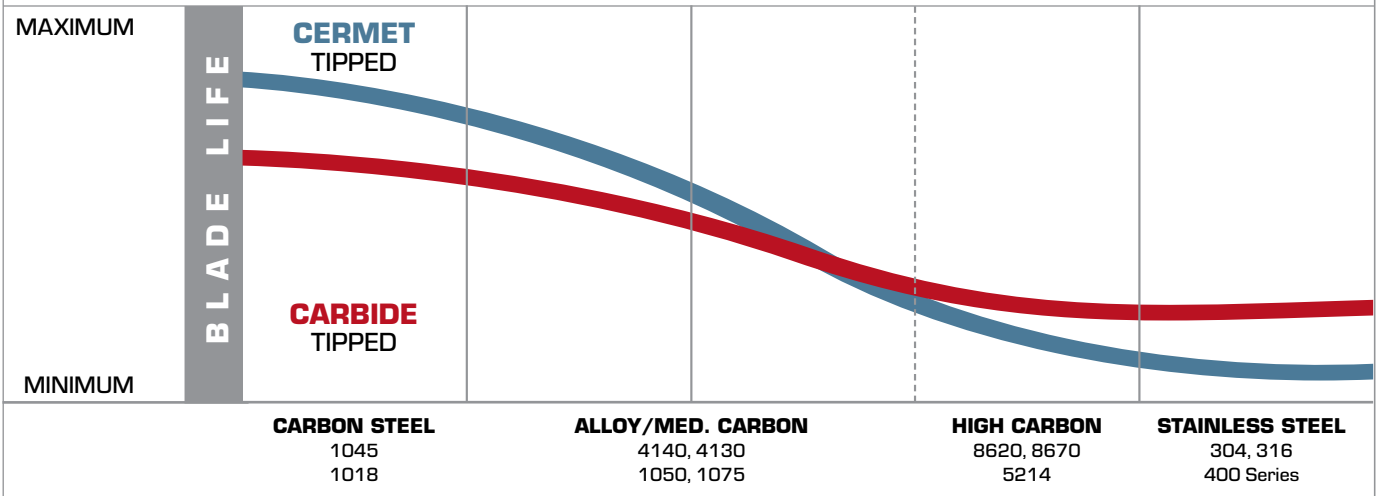
Benefits

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

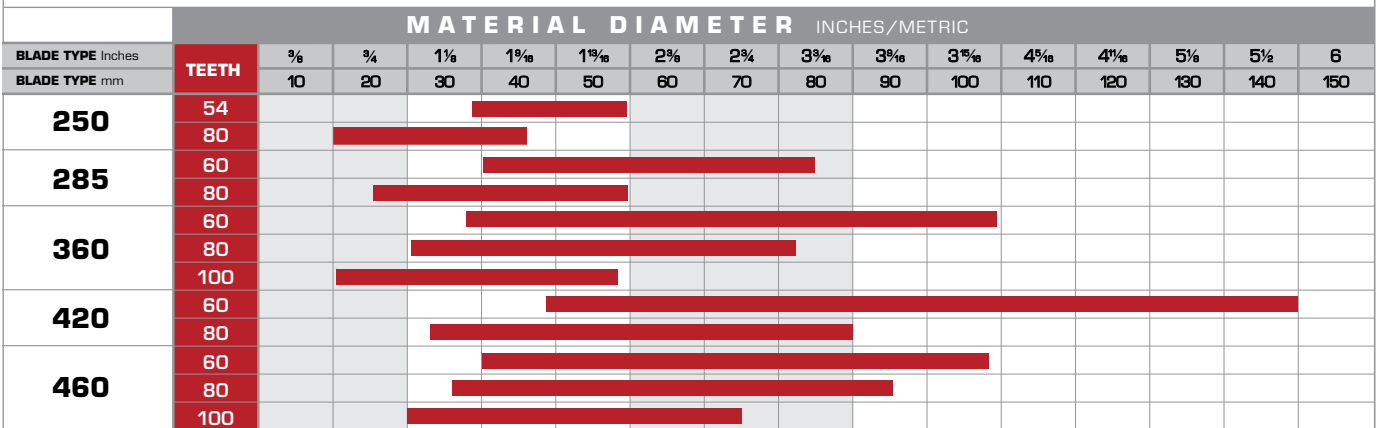
Diameter		Kerf (mm)	Teeth	Pin Hole	Model	Part	Machine Example
Blade (mm)	Inner (mm)						
285	32	2.03	80	4/11/63 and 4/9/50	ICTNK28580CB	203005	Everising Kasto Nishijimax Tsune
360	40	2.7	60	4/11/90	ICAM36060CB	203081	Amada Behringer Daito / Delta Everising Mega
360	40	2.7	80		ICAM36080CB	203029	
360	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



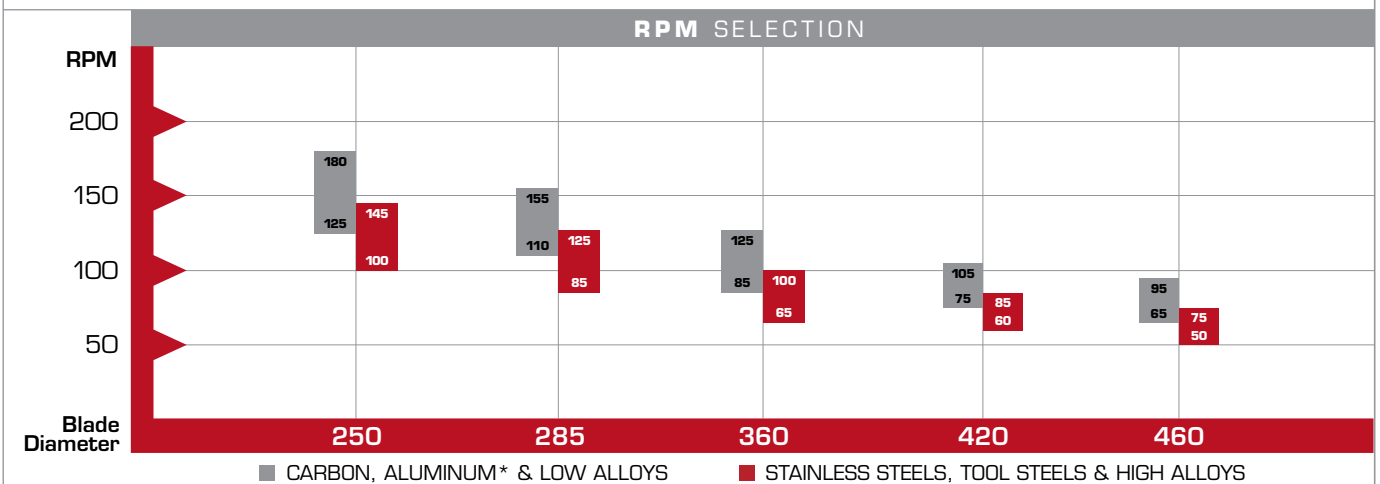
BLADE TYPE SELECTION GUIDE



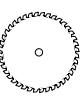
BLADE TOOTH SELECTION GUIDE



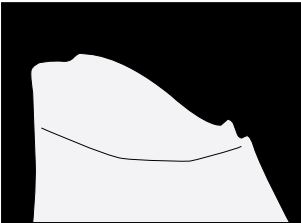
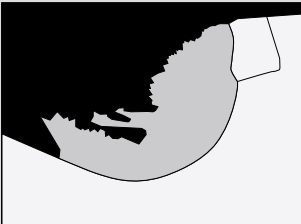
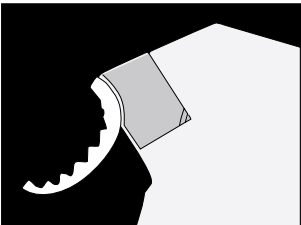
RPM SELECTION GUIDE

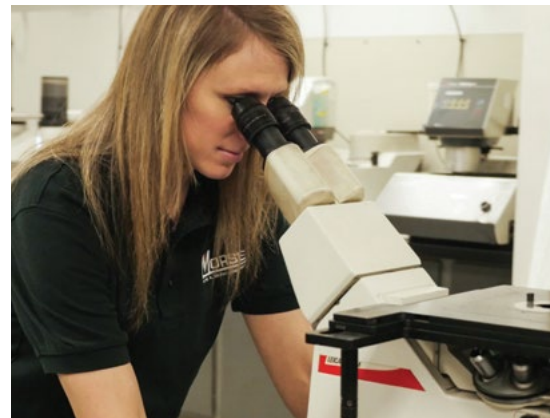
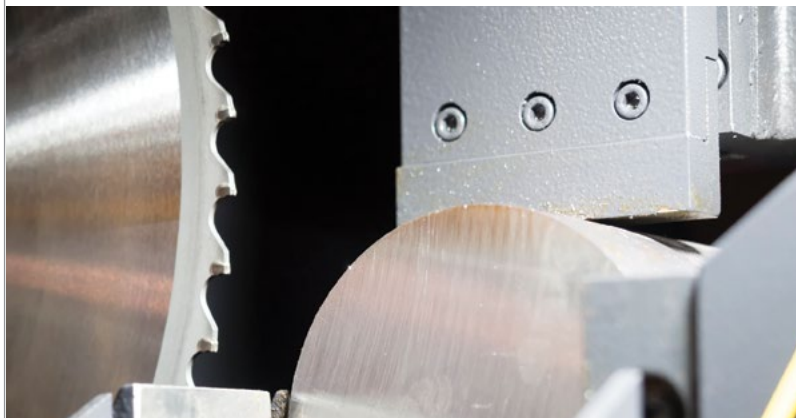


* For ALUMINUM, use carbide at cermet parameters



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/vice 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 MHST 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.

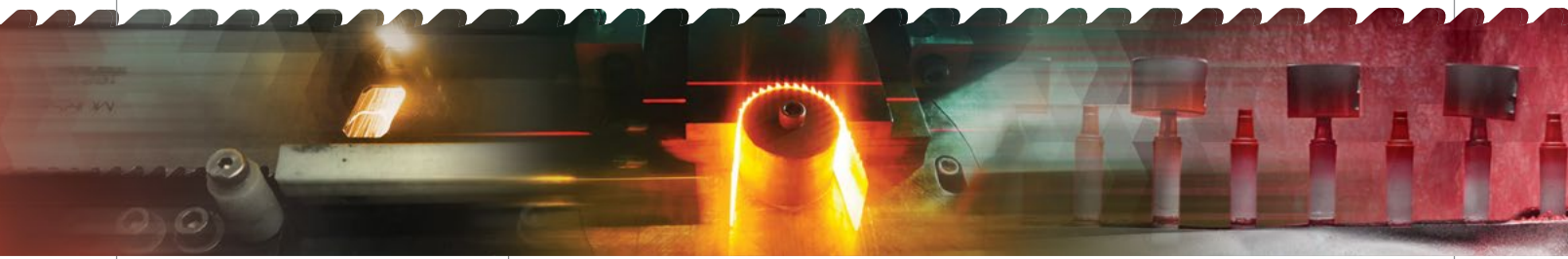
Step Drills Repetitive hole cutting or enlargement for electrical, automotive and sheet metal applications.

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

HOLE SAWS GENERAL PURPOSE



BI-METAL MHS / MSHA

General purpose cutting across a wide range of materials including metals, wood, drywall and composites.

Applications

- ▼ Wood
- ▼ Plastic
- ▼ Machinable metals
- ▼ Stainless steel alloys
- ▼ Nail-embedded wood

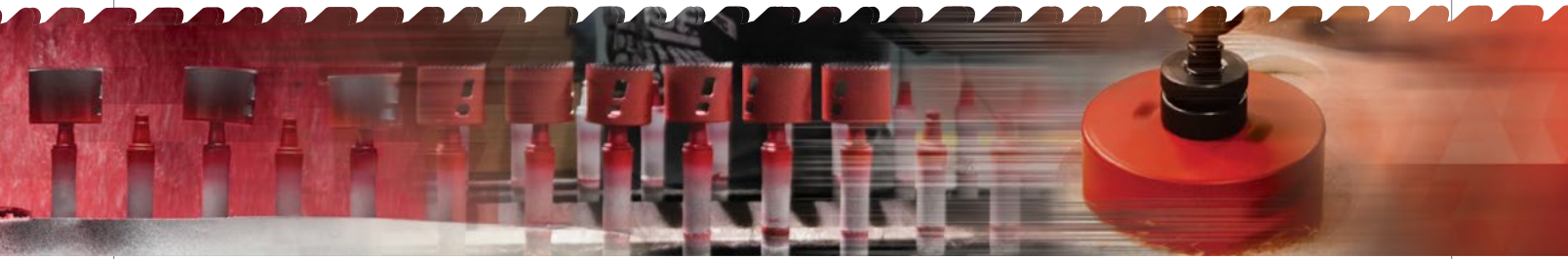
Benefits

- ▼ Optimized to remove material faster
- ▼ Solid cap reduces runout and vibration
- ▼ Premium M42 high speed steel
- ▼ 1⁵/₁₆ (49 mm) cutting depth
- ▼ New side slot for increased leverage for faster, easier slug removal



Diameter		MHS (arbor required)						MSHA (arbor attached)	
		Model	Part	Model	Part	Model	Part	Model	Part
in	mm	1/Box		1/Card		Bulk 25/Box		1/Card	
5/16	14	MHS09	177092	MHS09C	178099			MHSA09C	116091
3/8	16	MHS10	177108	MHS10C	178105			MHSA10C	116107
11/16	17	MHS11	177115	MHS11C	178112	MHS11B25	189118	MHSA11C	116114
3/4	19	MHS12	177122	MHS12C	178129	MHS12B25	189125	MHSA12C	116121
	20	MHS125	177559	MHS125C	178556	MHS125B25	189132	MHSA125	116688
13/16	21	MHS13	177139	MHS13C	178136	MHS13B25	189156	MHSA13C	116138
7/8	22	MHS14	177146	MHS14C	178143	MHS14B25	189149	MHSA14C	116145
15/16	24	MHS15	177153	MHS15C	178150			MHSA15C	116152
1	25	MHS16	177160	MHS16C	178167	MHS16B25	189163	MHSA16C	116169
11/16	27	MHS17	177177	MHS17C	178174	MHS17B25	189170	MHSA17C	116176
1 1/8	29	MHS18	177184	MHS18C	178181	MHS18B25	189187	MHSA18C	116183
1 1/16	30	MHS19	177191	MHS19C	178198	MHS19B25	189194	MHSA19C	116190
1 1/4	32	MHS20	177207	MHS20C	178204	MHS20B25	189200	MHSA20C	116206
1 3/16	33	MHS21	177214	MHS21C	178211	MHS21B25	189217	MHSA21C	116213
1 1/2	35	MHS22	177221	MHS22C	178228	MHS22B25	189224	MHSA22C	116220
1 5/16	37	MHS23	177238	MHS23C	178235			MHSA23C	116237
1 1/2	38	MHS24	177245	MHS24C	178242	MHS24B25	189248	MHSA24C	116244
1 5/8	40	MHS25	177252	MHS25C	178259			MHSA25C	116251
1 3/4	41	MHS26	177269	MHS26C	178266	MHS26B25	189262	MHSA26C	116268
1 7/8	43	MHS27	177276	MHS27C	178273	MHS27B25	189279	MHSA27C	116275
2	44	MHS28	177283	MHS28C	178280	MHS28B25	189286	MHSA28C	116282
	45	MHS285	177740	MHS285C	178747			MHSA285	116770
1 15/16	46	MHS29	177290	MHS29C	178297			MHSA29C	116299
2 1/8	48	MHS30	177306	MHS30C	178303	MHS30B25	189309	MHSA30C	116305
	50	MHS315	177313	MHS315C	178310			MHSA315	116787

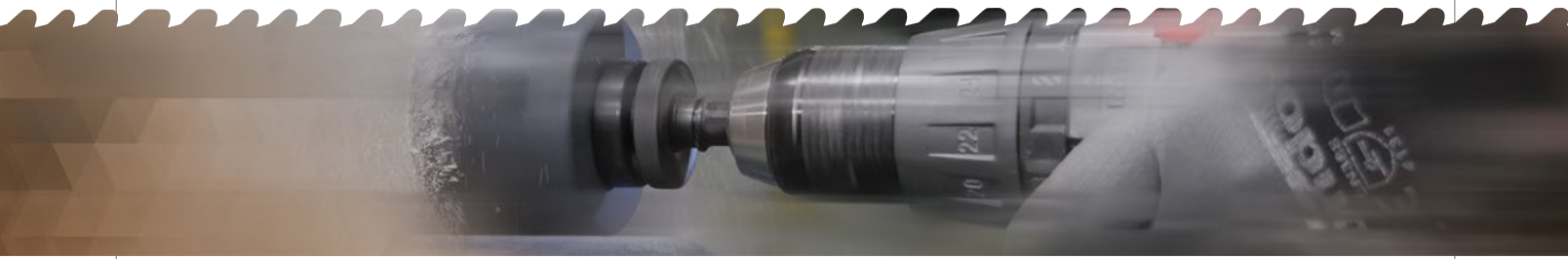




Diameter		MHS (arbor required)						MHSA (arbor attached)	
		Model	Part	Model	Part	Model	Part	Model	Part
in	mm	1/Box		1/Card		Bulk 25/Box		1/Card	
2	51	MHS32	177320	MHS32C	178327	MHS32B25	189323	MHSA32C	116329
2 $\frac{1}{16}$	52	MHS33	177337	MHS33C	178334			MHSA33C	116336
2 $\frac{1}{8}$	54	MHS34	177344	MHS34C	178341	MHS34B25	189347	MHSA34C	116343
	55	MHS345	177351	MHS345C	178358			MHSA345	116794
2 $\frac{1}{4}$	57	MHS36	177368	MHS36C	178365	MHS36B25	189361	MHSA36C	116367
2 $\frac{3}{16}$	59	MHS37	177375	MHS37C	178372			MHSA37C	116374
2 $\frac{1}{2}$	60	MHS38	177382	MHS38C	178389	MHS38B25	189385	MHSA38C	116381
	62	MHS385	177399	MHS385C	178396			MHSA385C	116800
2 $\frac{1}{2}$	64	MHS40	177405	MHS40C	178402	MHS40B25	189408	MHSA40C	116404
2 $\frac{3}{16}$	65	MHS41	177412	MHS41C	178419	MHS41B25	189415	MHSA41C	116411
2 $\frac{1}{2}$	67	MHS42	177429	MHS42C	178426	MHS42B25	189422	MHSA42C	116428
	68	MHS425	177436	MHS425C	178433			MHSA425	116817
2 $\frac{3}{4}$	70	MHS44	177443	MHS44C	178440			MHSA44C	116442
2 $\frac{1}{2}$	73	MHS46	177467	MHS46C	178464			MHSA46C	116466
	75	MHS475	177474	MHS475C	178471			MHSA475	116831
3	76	MHS48	177481	MHS48C	178488	MHS48B25	189484	MHSA48C	116480
3 $\frac{1}{8}$	79	MHS50	177504	MHS50C	178501			MHSA50C	116503
3 $\frac{1}{4}$	83	MHS52	177528	MHS52C	178525			MHSA52C	116527
3 $\frac{3}{8}$	86	MHS54	177542	MHS54C	178549			MHSA54C	116541
3 $\frac{1}{2}$	89	MHS56	177566	MHS56C	178563			MHSA56C	116565
3 $\frac{3}{4}$	92	MHS58	177580	MHS58C	178587			MHSA58C	116589
3 $\frac{3}{4}$	95	MHS60	177603	MHS60C	178600			MHSA60C	116602
3 $\frac{3}{4}$	98	MHS62	177627	MHS62C	178624			MHSA62C	116626
	100	MHS63	177634	MHS63C	178631			MHSA63C	116633
4	102	MHS64	177641	MHS64C	178648			MHSA64C	116640
4 $\frac{1}{8}$	105	MHS66	177665						
4 $\frac{1}{4}$	108	MHS68	177689						
4 $\frac{3}{8}$	111	MHS70	177702						
4 $\frac{1}{2}$	114	MHS72	177726						
4 $\frac{1}{2}$	121	MHS76	177764						
5	127	MHS80	177801						
5 $\frac{1}{4}$	133	MHS84	177849						
5 $\frac{1}{2}$	140	MHS88	177887						
5 $\frac{3}{4}$	146	MHS92	177924						
6	152	MHS96	177962						
6 $\frac{1}{8}$	162	MHS104	177498						
6 $\frac{1}{8}$	168	MHS106	177535						



HOLE SAW ACCESSORIES



FAST ADAPT® ARBORS

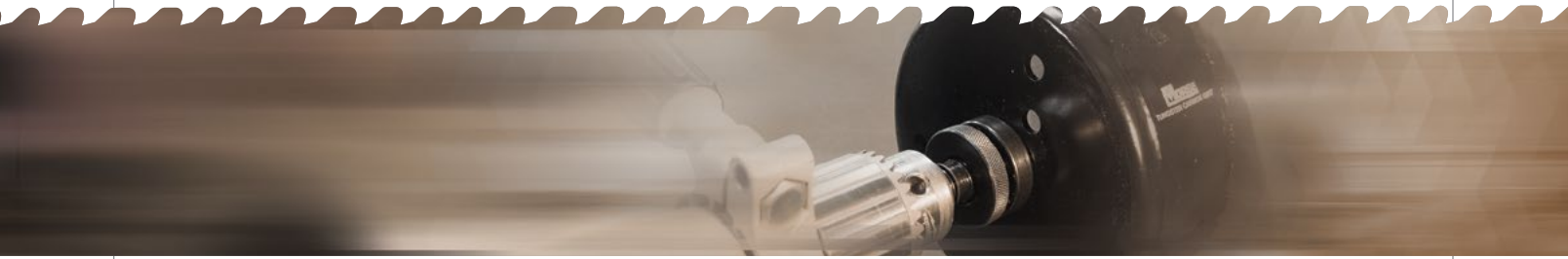
Compatible across the range of hole saws. For contractors who need to quickly change from one hole saw to another, including electrical, plumbing, siding, door, flooring and marine.



Fast Adapt	Image	Shank	Chuck	Thread	Fits Saws	Follow Through	Standard Pilot			
							Model		Part	
							1/Box		Bulk	
Universal Arbor		7/16 3-sided	1/2		1/16 - 6%	1 1/2 - 6%	MQRAC	143042	MQRAB	143073
Fast Adapt - 1/2				1/2 - 20	1/16 - 13/16		MQR12C	143028	MQR12B	143066
Fast Adapt - 5/8				3/8 - 18	1 1/4 - 6%		MQR58C	143011	MQR58B	143059
Fast Adapt Combo Pack - 2 MQR12 / 3 MQR58				1/2 - 20 3/8 - 18	1/16 - 6%		MQR5812C	143004		
Pilot Drill							MQRPDC	143035	MQRPDB	143080

Pilot Drills	Image	Length		Diameter		Model	Part	Model	Part
		in	mm	in	mm				
		1/Pack		5/Pack					
MHS, MHSA, MHST 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 3/8	73	1/4	6	MPD4SCT01	140874	MPD4SCT05	140881
Carbide Tipped		4	102	1/4	6	MPD4CT01	140850	MPD4CT05	140867

Extensions	Length		Shank		Chuck	Model	Part	Model	Part
	in	mm	in	mm					
	1/Pack		10/Pack						
	12	305	3/8	9.5	3/8	ME381	140409		
	12	305	7/16	10.5	1/2	ME121	141123	ME1210	142120



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
						1/Box	1/Card	1/Box	

Standard											
	1/4 Hex	1/4	1/2 - 20	3/16 - 13/16	3/4 - 1 1/2	MA24	139007	MA24C	139618		
	3/8 Hex	3/8	1/2 - 20	3/16 - 13/16	3/4 - 1 1/2	MA34	139014	MA34C	139625	MA34CT	139809
	3/8 Hex	3/8	3/8 - 18	1 1/4 - 6 3/4	1 1/2 - 6 3/4	MA35	139045	MA35C	139632		
Pinned											
	3/8 Hex	3/8	3/8 - 18	1 1/4 - 6 3/4	1 1/2 - 6 3/4	MA35PS	139021	MA35PSC	139649	MA35PSCT	139823
	7/8 Hex	1/2	3/8 - 18	1 1/4 - 6 3/4	1 1/2 - 6 3/4	MA45PS	139038	MA45PSC	139656	MA45PSCT	139816

Pilot Drills

Model	Part	Model	Part	Model	Part
10/Pack		25/Pack		100/Pack	
MHS, MHSA, MHST 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



1/5/10/Bag



1/Card



25/Box



100/Box

Accessories	Thread		Model	Part	Model	Part	Model	Part
	Arbor	Saw						
Hole Saws								
Hex Adapter	1/2 - 20	5/8 - 18	M44NH01	140744	M44NH05	140584		
Adapter	1/2 - 20	5/8 - 18	M44N01	140751	M44N05	140621		
Ejector Spring - fits 1/4 Pilot Drills			MES101	140805	MES105	140812	MES125	140836



HOLE SAWS GENERAL PURPOSE



(arbor required)

CARBIDE TIPPED

CARBIDE TIPPED MHST

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

Applications

- ▼ Acoustic tile
- ▼ Countertops
- ▼ Drywall
- ▼ Fiberboard
- ▼ Fiberglass
- ▼ Plaster
- ▼ Plastic
- ▼ Nail-free wood
- ▼ Stainless Steel

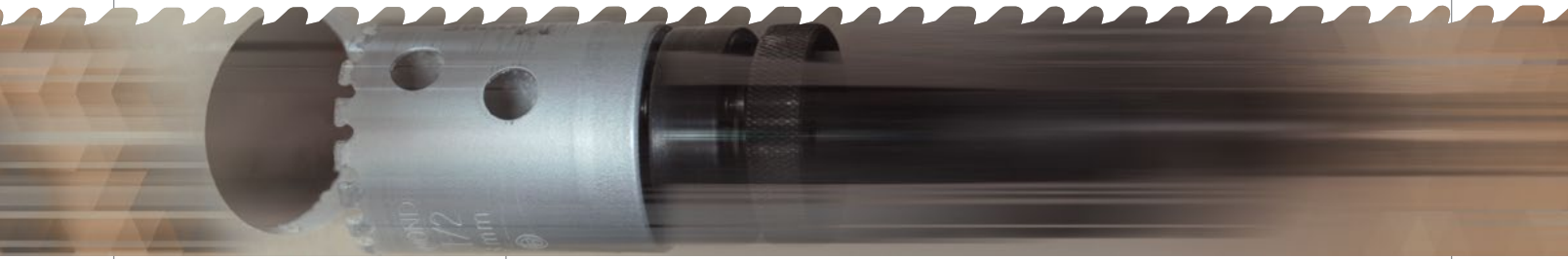
Benefits

- ▼ Special tooth design for very fast hole saw cutting
- ▼ Triple chip teeth help to cut materials that bi-metal saws will not cut
- ▼ 3 teeth per inch creates a wider gullet for better chip clearance and faster cutting



Diameter		Model	Part	Diameter		Model	Part	Diameter		Model	Part
in	mm	1/Box		in	mm	1/Box		in	mm	1/Box	
5/16	14	MHST09	157094	1 1/16	40	MHST25	157254	3 3/8	79	MHST50	157506
3/8	16	MHST10		1 1/8	41	MHST26	157261	3 1/2	83	MHST52	157520
	16	MHST105	157971	1 1/16	43	MHST27	157278	3 3/8	86	MHST54	157544
1 1/16	17	MHST11	157117	1 3/8	44	MHST28	157285	3 1/2	89	MHST56	157568
3/4	19	MHST12	157124	1 13/16	46	MHST29	157292	3 3/8	92	MHST58	157582
	20	MHST125	157988	1 7/8	48	MHST30	157308	3 3/8	95	MHST60	157605
1 3/16	21	MHST13	157131	2	51	MHST32	157322	3 3/8	98	MHST62	157629
7/8	22	MHST14	157148	2 1/16	52	MHST33	157339	4	102	MHST64	157643
1 1/16	24	MHST15	157155	2 1/8	54	MHST34	157346	4 1/8	105	MHST66	157667
1	25	MHST16	157162	2 1/4	57	MHST36	157360	4 1/8	108	MHST68	157681
1 1/16	27	MHST17	157179	2 3/16	59	MHST37	157377	4 1/8	111	MHST70	157704
1 1/8	29	MHST18	157186	2 3/8	60	MHST38	157384	4 1/2	114	MHST72	157728
1 3/16	30	MHST19	157193	2 1/2	64	MHST40	157407	4 3/8	121	MHST76	157766
1 1/4	32	MHST20	157209	2 5/16	65	MHST41	157414	5	127	MHST80	157803
1 3/16	33	MHST21	157216	2 3/8	67	MHST42	157421	5 1/4	133	MHST84	157841
1 3/8	35	MHST22	157223	2 3/4	70	MHST44	157445	5 1/2	140	MHST88	157889
1 7/16	37	MHST23	157230	2 7/8	73	MHST46	157469	5 3/4	146	MHST92	157926
1 1/2	38	MHST24	157247	3	76	MHST48	157483	6	152	MHST96	157964





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

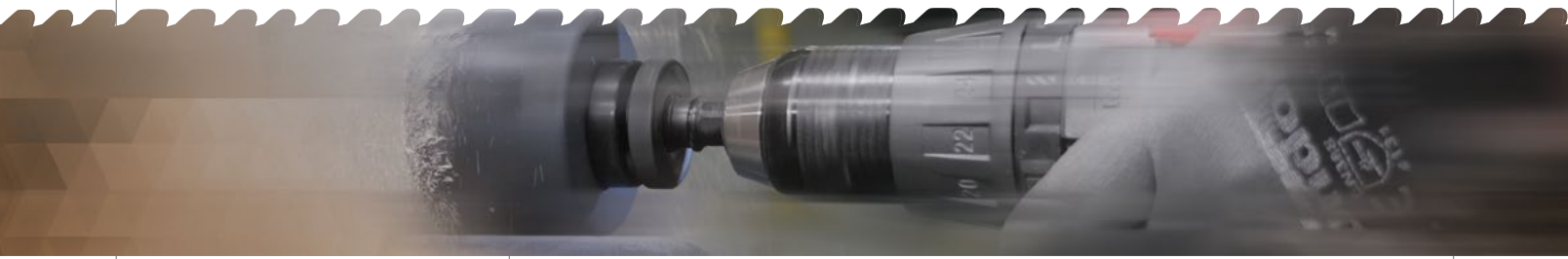
- ▼ Industrial Diamond Grit brazed to hardened and tempered alloy body.
- ▼ Fast and easy cutting of abrasive materials.
- ▼ Finish cut edges are smooth and clean.
- ▼ Hollow core center keeps hole saw centered
- ▼ Side slots allow for fast removal of material



Diameter		One-piece Hole Saws (arbor attached)		Standard Hole Saws (arbor required)	
		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



HOLE SAWS SPECIALTY



(arbor required)

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 gulletted snag resistant edge
- ▼ CT pilot drill recommended for masonry type materials



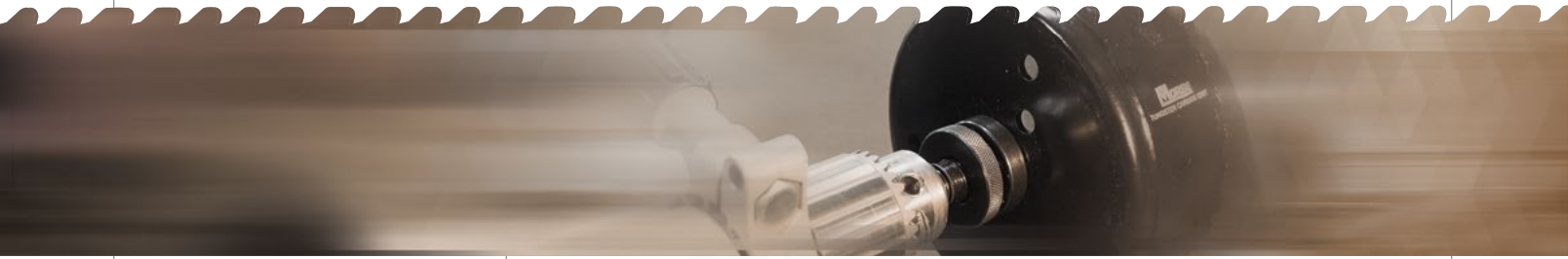
Gulletted

Diameter		Model	Part	Diameter		Model	Part	Diameter		Model	Part
in	mm	1/Box		in	mm	1/Box		in	mm	1/Box	
3/4	19	MHSG12	216128	1 1/4	44	MHSG28	216289	3 1/4	83	MHSG52	216524
13/16	21	MHSG13	216135	1 3/16	46	MHSG29	216296	3 3/8	86	MHSG54	216548
7/8	22	MHSG14	216142	1 1/2	48	MHSG30	216302	3 1/2	89	MHSG56	216562
15/16	24	MHSG15	216159	2	51	MHSG32	216326	3 3/4	92	MHSG58	216586
1	25	MHSG16	216166	2 1/8	52	MHSG33	216333	3 7/8	95	MHSG60	216609
1 1/16	27	MHSG17	216173	2 1/4	54	MHSG34	216340	4	98	MHSG62	216623
1 1/8	29	MHSG18	216180	2 1/2	57	MHSG36	216364	4 1/8	102	MHSG64	216647
1 3/16	30	MHSG19	216197	2 3/8	59	MHSG37	216371	4 1/4	105	MHSG66	216661
1 1/4	32	MHSG20	216203	2 3/4	60	MHSG38	216388	4 1/2	108	MHSG68	216685
1 3/8	33	MHSG21	216210	2 7/8	64	MHSG40	216401	4 3/4	111	MHSG70	216708
1 1/2	35	MHSG22	216227	3	65	MHSG41	216418	4 7/8	114	MHSG72	216722
1 5/8	37	MHSG23	216234	3 1/8	67	MHSG42	216425	5	121	MHSG76	216760
1 3/4	38	MHSG24	216241	3 1/4	70	MHSG44	216449	5 1/8	127	MHSG80	216807
1 7/8	40	MHSG25	216258	3 3/8	73	MHSG46	216463	5 1/4	140	MHSG88	216883
2	41	MHSG26	216265	3 1/2	76	MHSG48	216487	5 3/4	146	MHSG92	216920
2 1/16	43	MHSG27	216272	3 3/4	79	MHSG50	216500	6	152	MHSG96	216968

Continuous

6 1/2	162	MHSG104	216975
6 3/4	168	MHSG106	216982
7	174	MHSG110	216999





(arbor required)

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

- ▼ Drywall
- ▼ Plaster
- ▼ Lath
- ▼ Ceiling Tile

Bi-Metal

- ▼ Wood
- ▼ Metal

Benefits

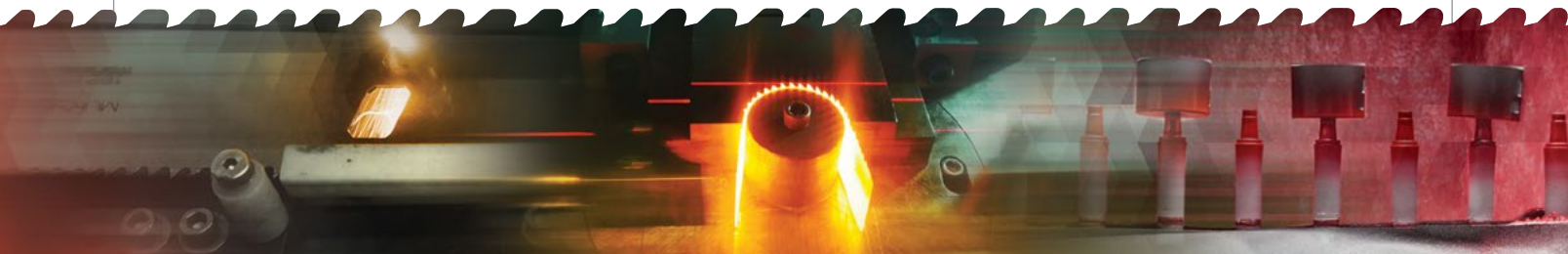
- ▼ Carbide grit saws leave clean cuts in abrasive materials like drywall, plaster and ceiling tile
- ▼ Bi-metal saws provide smooth cuts in wood or metal
- ▼ Application specific saws extend blade life



Lighting Fixture Lens		Hole Saw		Best for Drywall, Plaster, Lath and Ceiling Tile		Best for Wood or Metal	
Diameter		Diameter		1/Box		1/Box	
in	mm	in	mm	Model	Part	Model	Part
				Gulleted Carbide Grit		Bi-Metal	
2	51	2 $\frac{3}{8}$	60	MHSG38	216388	MHS38	177382
3	76	3 $\frac{3}{8}$	86	MHSG54	216548	MHS54	177542
4	102	4 $\frac{3}{8}$	111	MHSG70	216708	MHS70	177702
5	127	5 $\frac{1}{2}$	140	MHSG88	216883	MHS88	177887
				Continuous Carbide Grit			
6	152	6 $\frac{3}{8}$	162	MHSG104	216975	MHS104	177498
6	152	6 $\frac{3}{8}$	168	MHSG106	216982	MHS106	177535
6	152	6 $\frac{3}{8}$	174	MHSG110	216999		



HOLE SAW KITS



Electrician's Kits

Plumber's Kits

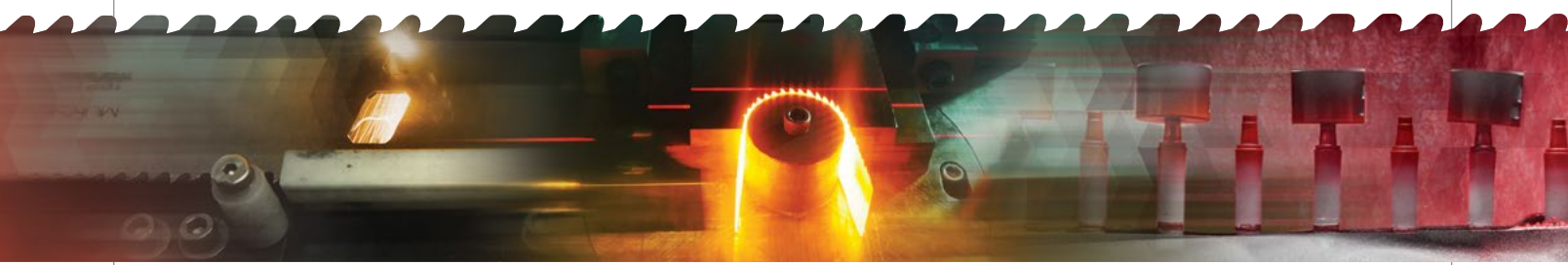
MADE IN U.S.A.



Component	Size		Electrician's Kits				Plumber's Kits		
	in	mm	MHSELE01 177894	MHS08E 177757	MHS02E 177771	MHST02E 157940	MHSPLU01 177900	MHS16P 177818	MHS04P 177795
Bi-Metal Hole Saws	3/8	19	1				1	1	1
	7/8	22	1	1	1		1	1	1
	1	25	1						
	1 1/8	29	1	1	1		1	1	1
	1 1/4	32	1						
	1 3/8	35	1	1	1				
	1 1/2	38	1				1	1	1
	1 3/4	44	1	1	1		1	1	1
	2	51	1	1	1				
	2 1/8	54					1		
	2 1/4	57					1		1
	2 1/2	64	1	1	1				
	2 5/8	65					1	1	
	2 3/4	67	1						
	3	76	1	1			1	1	
	3 1/4	83							
	3 3/8	86							
	3 1/2	89					1	1	
3 5/8	92	1	1						
3 3/4	95								
4	102					1	1		
4 1/8	105	1	1						
4 1/4	108					1	1		
4 1/2	114	1	1			1	1		
4 3/4	121	1							
Carbide Tipped Hole Saws	3/8	19	1						
	7/8	22	1			1			
	1 1/8	29	1			1			
	1 1/4	35	1			1			
	1 1/2	38	1						
	1 3/4	44	1			1			
	2	51	1			1			
	2 1/4	57	1						
2 1/2	64	1			1				
Carbide Grit Hole Saws	3/8	19					1		
	7/8	22					1		
	1 1/8	29					1		
	1 3/8	35					1		
	1 1/2	38					1		
	1 3/4	44					1		
	2	51					1		
	2 1/4	57					1		
2 1/2	64					1			
Arbors	Chuck	Thread							
	3/8	1/2 - 20		1			1		
	3/8	1/2 - 20	1	1	1			1	
	3/8 Pinned	5/8 - 18	1						
	1/2 Pinned	3/4 - 18		1	1		1	1	
	3/8 CT	1/2 - 20				1			
1/2 CT Pinned	3/4 - 18				1				
Extensions	Chuck	Length							
	1/2	12 (305)							
Adapters	Arbor	Saw							
	1/2 - 20	3/8 - 18							
Pilot Drills	Standard		2				2	2	
	Carbide Tipped						2		
Template									



HOLE SAWS OPERATING PARAMETERS



Recommended Hole Sawing Speeds (RPM)

Bi-Metal (MHS & MHSA Style)

Size in	Size mm	Mild Steel	Tool / Stainless Steels	Cast Iron	Brass	Aluminum	Size in	Size mm	Mild Steel	Tool / Stainless Steels	Cast Iron	Brass	Aluminum
9/16	14	550	300	400	790	900	2 3/8	60	140	70	95	190	220
5/8	16	530	275	365	730	825	2 1/2	64	135	70	90	180	205
1 1/16	17	500	250	330	665	750	2 5/16	65	130	65	85	175	200
3/4	19	460	230	300	600	690	2 5/8	67	130	65	85	170	195
13/16	21	425	210	280	560	630	2 3/4	70	125	60	80	160	185
7/8	22	390	195	260	520	585	2 7/8	73	120	60	80	160	180
1 1/16	24	370	185	245	495	555	3	76	115	55	75	150	170
1	25	350	175	235	470	525	3 1/8	79	110	55	70	145	165
1 1/16	27	325	160	215	435	480	3 1/4	83	105	50	70	140	155
1 1/8	29	300	150	200	400	450	3 5/8	86	100	50	65	130	150
1 3/16	30	285	145	190	380	425	3 1/2	89	95	45	60	125	145
1 1/4	32	275	140	180	360	410	3 5/8	92	95	45	60	120	140
1 5/16	33	260	135	175	345	390	3 3/4	95	90	45	60	120	135
1 3/8	35	250	125	165	330	375	3 3/8	98	90	45	60	115	130
1 7/16	37	240	120	160	315	360	4	102	85	40	55	115	125
1 1/2	38	230	115	150	300	345	4 1/8	105	85	40	55	110	120
1 9/16	40	220	110	145	290	330	4 1/4	108	80	40	55	110	115
1 5/8	41	210	105	140	280	315	4 3/8	111	80	40	50	100	110
1 11/16	43	205	100	135	270	305	4 1/2	114	75	35	50	100	105
1 3/4	44	195	95	130	260	295	4 3/4	121	70	35	45	90	95
1 5/16	46	190	95	125	250	285	5	127	65	30	40	85	90
1 7/8	48	180	90	120	240	270	5 1/2	140	60	30	35	80	85
2	51	170	85	115	230	255	5 3/4	146	60	30	35	80	85
2 1/16	52	165	80	110	220	245	6	152	55	25	35	75	80
2 1/8	54	160	80	105	210	240							
2 1/4	57	150	75	100	200	230							
2 5/16	59	145	75	100	195	225							

Carbide Tipped (MHST Style)

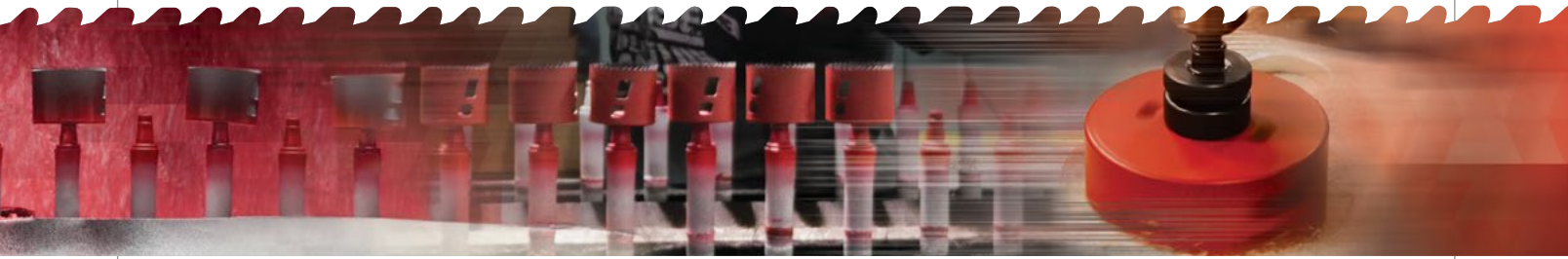
Size in	Size mm	Ceramic Tile RPM	Plastic RPM	Formica RPM	Aluminum RPM	Fiberglass RPM	Computer Flooring RPM	Cast Iron RPM	Particle Board RPM
3/4	19	495	3425	205	1695	245	445	405	3425
7/8	22	425	2935	175	1495	205	465	345	2935
1	25	365	2565	145	1295	185	405	305	2565
1 1/8	29	325	2285	135	1095	165	365	265	2285
1 3/8	35	265	1865	105	895	135	295	215	1865
1 1/2	38	245	1705	95	895	115	265	205	1705
1 3/4	44	205	1465	85	695	105	235	175	1465
2 1/8	54	175	1285	75	595	85	205	145	1285
2 1/4	57	165	1135	65	595	75	175	135	1135
2 1/2	64	145	1025	55	495	65	155	115	1025
2 3/4	70	130	935	50	445	60	145	105	940
3	76	115	855	45	395	55	135	95	855
3 1/4	83	105	785	45	395	55	125	85	785
3 1/2	89	100	705	35	395	45	105	85	705
3 3/4	95	95	685	35	295	45	105	75	685
4	102	90	630	35	295	45	95	65	615
4 1/4	108	85	580	35	295	45	95	60	570
4 1/2	114	85	550	25	295	35	85	55	535
5	127	75	475	25	195	35	85	55	495
5 1/2	140	65	415	25	195	35	75	45	455
6	152	55	355	25	95	25	55	35	415

Carbide Grit (MHSG Style)

MATERIAL TO BE CUT	RPM	COOLANT	DUST PROTECTION
Hardened Tool Steel (Rc 42-65)	SLOW	yes	
Nitride Case & Induction Hardened Steel	SLOW	yes	
High Temp Nickel & Iron Base Superalloys	SLOW	yes	
Hastelloy	SLOW	yes	
Aircraft and Sheet Stainless	SLOW	yes	
Beryllium	SLOW	yes	
Sintered Tungsten, Molybdenum, Iron, Stainless	SLOW	optional	
White & High Allow Cast Iron	SLOW	yes	
Grey Cast Iron	SLOW	no	
Titanium	SLOW	yes	
Foamed Glass	FAST	no	yes
Syntactic Foam	MED	no	yes
Low Density Ceramics	MED	optional	yes
Green Unfired Ceramics	MED	no	yes
Fiber Reinforced Cement	MED	no	yes
Fiberglass Honeycomb	FAST	no	yes
Polyesters, Epoxies, Melamines, Phenolics	FAST	no	yes
Graphite Composites	FAST	no	yes
Carbon & Graphite	FAST	no	yes
Glass	MED	yes	
Wire Reinforced Rubber	FAST	yes	
Compressed Perlite Fiber Board	MED	no	yes
Cement Lined Steel & Cast Iron Pipe	SLOW	optional	
Soapstone, Mica, Slate, Lava, Coal	SLOW	no	yes

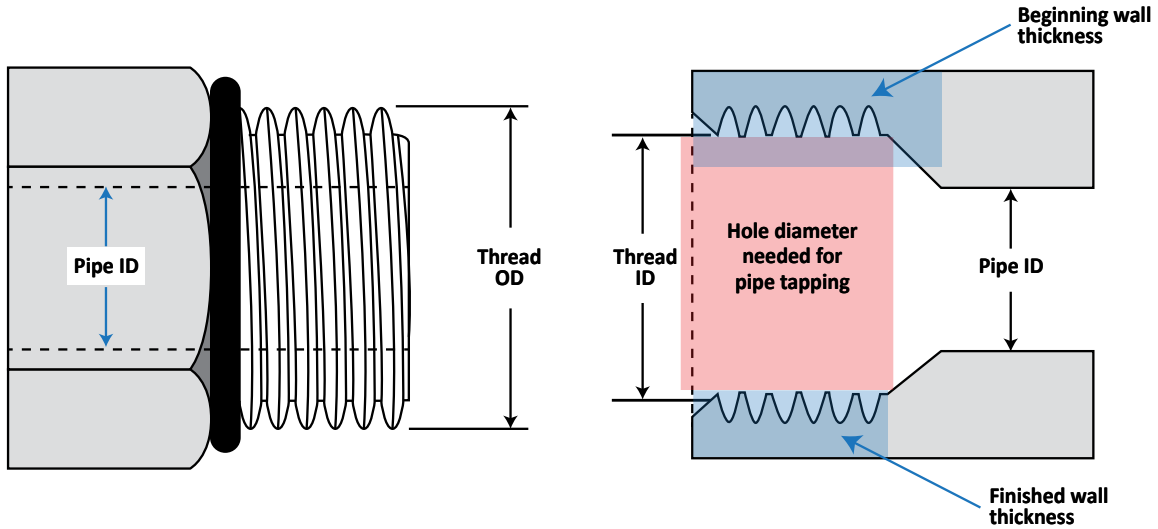
Slow 125-400 RPM
Speed Ranges: Medium 400-800 RPM
Fast 800+ RPM





Pipe Tapping:

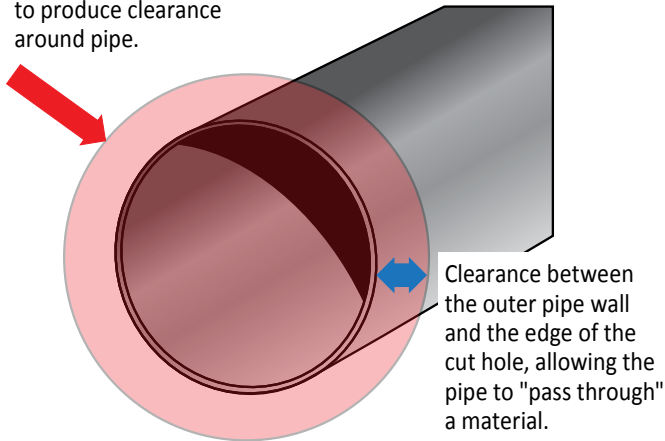
The tapping hole should match the inner thread diameter of the male threaded fitting.



Pipe Entrance:

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

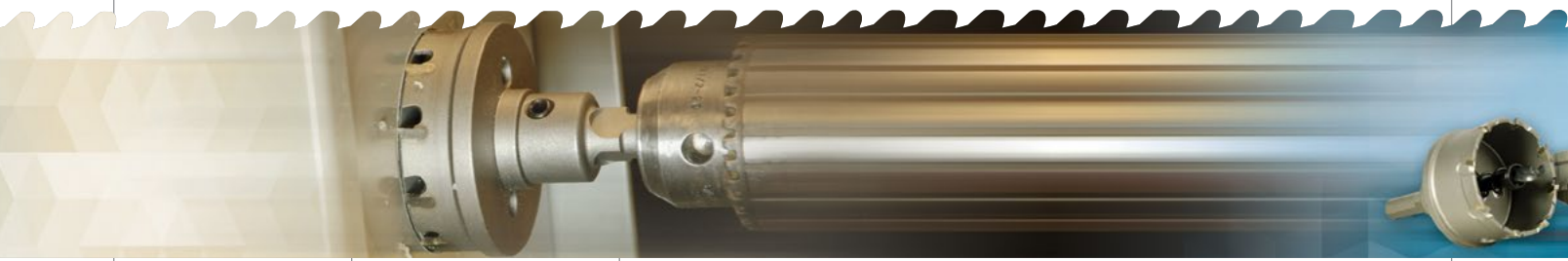
Hole diameter needed to produce clearance around pipe.



Pipe Diameter (ID)		Hole Saw Size			
		Pipe Tap		Pipe Entrance	
in	mm	in	mm	in	mm
3/8	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 3/4	67	3	76
3	76	3 1/4	83	3 3/8	92
3 1/2	89	3 3/4	95	4 1/8	105
4	102	4 1/2	114	4 3/8	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

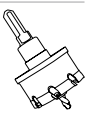
- ▼ Sheet metal
- ▼ Stainless steel
- ▼ Pipe
- ▼ Aluminum
- ▼ PVC/ABS
- ▼ Plastic

Benefits

- ▼ Precision ground triple chip tooth for smooth cutting
- ▼ Two cutting depths offered: 1" (25mm) for pipe and conduit 3/8" (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 3/8" and larger drill chucks



Diameter		Shank	Shallow Cut Depth 3/8" (4.5mm)		Deep Cut Depth 1" (25mm)	
in	mm		Model	Part	Model	Part
			1/Tube		1/Tube	
5/16	14	10mm 6-sided	CTS09	166034	CTD09	167024
3/8	16	10mm 6-sided	CTS10	166041	CTD10	167031
1/2	17	10mm 6-sided	CTS11	166058	CTD11	167048
3/4	19	10mm 6-sided	CTS12	166065	CTD12	167055
	20	10mm 6-sided	CTS125	166577	CTD125	167437
13/16	21	10mm 6-sided	CTS13	166072	CTD13	167062
7/8	22	10mm 6-sided	CTS14	166089	CTD14	167079
15/16	24	10mm 6-sided	CTS15	166096	CTD15	167086
	25	10/13mm 3-sided	CTS155	166584	CTD155	167444
1	25	10/13mm 3-sided	CTS16	166102	CTD16	167093
1 1/16	27	10/13mm 3-sided	CTS17	166119	CTD17	167109
1 1/8	29	10/13mm 3-sided	CTS18	166126	CTD18	167116
1 1/16	30	10/13mm 3-sided	CTS19	166133	CTD19	167123
1 1/32	31	10/13mm 3-sided	CTS195	166140		
1 1/4	32	10/13mm 3-sided	CTS20	166157	CTD20	167130
	32	10/13mm 3-sided	CTS205	166591	CTD205	167451
1 1/16	33	10/13mm 3-sided	CTS21	166164	CTD21	167147
1 1/8	35	10/13mm 3-sided	CTS22	166171	CTD22	167154
1 1/16	37	10/13mm 3-sided	CTS23	166188	CTD23	167161
	38	10/13mm 3-sided	CTS235	166607	CTD235	167468
1 1/2	38	10/13mm 3-sided	CTS24	166195	CTD24	167178
1 5/16	40	13mm 6-sided	CTS25	166201	CTD25	167185
1 1/8	41	13mm 6-sided	CTS26	166218	CTD26	167192
1 1/16	43	13mm 6-sided	CTS27	166225	CTD27	167208
1 1/4	44	13mm 6-sided	CTS28	166232	CTD28	167215
1 3/16	46	13mm 6-sided	CTS29	166249	CTD29	167222
1 1/8	48	13mm 6-sided	CTS30	166256	CTD30	167239
1 5/16	49	13mm 6-sided	CTS31	166263	CTD31	167246
	50	13mm 6-sided	CTS315	166614	CTD315	167475
2	51	13mm 6-sided	CTS32	166270	CTD32	167253
2 1/16	52	13mm 6-sided	CTS33	166621		
2 1/8	54	13mm 6-sided	CTS34	166287	CTD34	167260
2 3/16	56	13mm 6-sided	CTS35	166294		
2 1/4	57	13mm 6-sided	CTS36	166300	CTD36	167277
2 3/16	59	13mm 6-sided	CTS37	166317		
2 3/8	60	13mm 6-sided	CTS38	166324	CTD38	167284





Diameter		Shank	Shallow Cut Depth 3/16" (4.5mm)		Deep Cut Depth 1" (25mm)	
in	mm		Model	Part	Model	Part
				1/Box		1/Box
2 1/16	62	13mm 6-sided	CTS39	166331		
2 1/8	64	13mm 6-sided	CTS40	166348	CTD40	167291
2 1/4	65	13mm 6-sided	CTS41	166355	CTD41	167307
2 3/8	67	13mm 6-sided	CTS42	166362	CTD42	167314
2 1/2	68	13mm 6-sided	CTS435	166379		
2 5/8	70	13mm 6-sided	CTS44	166386	CTD44	167321
2 3/4	71	13mm 6-sided	CTS45	166393		
2 7/8	73	13mm 6-sided	CTS46	166409	CTD46	167338
2 15/16	75	13mm 6-sided	CTS47	166416		
3	76	13mm 6-sided	CTS48	166423	CTD48	167345
3 1/16	79	13mm 6-sided	CTS50	166430		
3 1/8	83	13mm 6-sided	CTS52	166447	CTD52	167352
3 1/4	86	13mm 6-sided	CTS54	166454		
3 3/8	89	13mm 6-sided	CTS56	166461	CTD56	167369
3 1/2	92	13mm 6-sided	CTS58	166478	CTD58	167376
3 5/8	95	13mm 6-sided	CTS60	166485	CTD60	167383
3 3/4	98	13mm 6-sided	CTS62	166492		
4	102	13mm 6-sided	CTS64	166508	CTD64	167390
4 1/16	105	13mm 6-sided	CTS66	166515	CTD66	167406
4 1/8	108	13mm 6-sided	CTS68	166522	CTD68	167413
4 1/4	111	13mm 6-sided	CTS70	166539		
4 3/8	114	13mm 6-sided	CTS72	166546	CTD72	167420
4 1/2	121	13mm 6-sided	CTS76	166553		
5	127	13mm 6-sided	CTS80	166560		

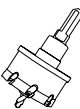
Accessories

Description		Shallow 1/Pack	Deep 1/Pack
Set Screws		CTSW01 166003	CTSW01 166003
TCT Stepped Pilot Drill for 4" (102mm) and less		CTSP 166010	CTDP 167000
TCT Stepped Pilot Drill for 4" (102mm) and up		CTSPXL 166638	CTDPXL 167482
Ejector Springs		CTSS 166027	CTDS 167017



Kits

Electrician			Components		Electrician			Components		Mechanical Contractor			Components	
Depth	Model	Part	Diameter		Depth	Model	Part	Diameter		Depth	Model	Part	Diameter	
			in	mm				in	mm				in	mm
Shallow	CTS02	166737	3/8	22	Shallow	CTS01	166720	3/8	22	Deep	CTD01	167543	1 1/16	17
			1 1/8	29				1 1/8	29				1 3/16	21
			1 3/8	35				1 3/8	35				1 5/16	24
			1 3/4	44									1 7/8	27
			2	51										
			2 1/2	64										
			TCT Stepped Pilot Drill					TCT Stepped Pilot Drill					TCT Stepped Pilot Drill	
			Ejector Spring					Ejector Spring					Ejector Spring	
			Hex Key					Hex Key					Hex Key	



PRECISION HOLE CUTTING METAL

STEP DRILLS

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



Applications

- ▼ Steel
- ▼ Copper
- ▼ Brass
- ▼ Aluminum
- ▼ Plexiglass
- ▼ Sheet metal
- ▼ PVC
- ▼ Plasterboard
- ▼ Hole enlarging

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

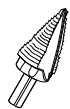


Description	Shank	TiN Coated		High Speed Steel	
		Model	Part	Model	Part
Self-Starting		1/Box		1/Box	
1/8 - 1/2 by 32nds	1/4	ESD01TIN	124119	ESD01	124003
1/8 - 3/8 by 16ths	1/4			ESD06	124058
1/8 - 1/2 by 16ths	1/4			ESD07	124065
3/16 - 1/2 by 16ths	1/4	ESD02TIN	124126	ESD02	124010
3/16 - 7/8 by 16ths	3/8	ESD03TIN	124133	ESD03	124027
1/4 - 3/4 by 16ths	3/8	ESD04TIN	124140	ESD04	124034
1/4 - 7/8 by 16ths	3/8			ESD10	124096
1/4 - 1 1/8 by 16ths	3/8			ESD05	124041
1/4 - 1 1/8 by 8ths	3/8			ESD11	124102
Hole Enlarging - 1/2" or Larger Pilot Hole					
9/16 - 1 by 16ths	3/8			ESD08	124072
3/4 - 1-3/8 by 16ths	1/2			ESD09	124089

Kit - High Speed Steel



Electrician/Automotive			Components
Model	Part	Description	Shank
ESDKIT01	124201	1/8 - 1/2 by 32nds	1/4
		3/16 - 7/8 by 16ths	3/8
		1/4 - 3/4 by 16ths	3/8
		1/4 - 1 1/8 by 16ths	3/8



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	36 in		18 in		7 1/2 in	
in	mm		Model	Part	Model	Part	Model	Part
			1/Box		1/Box		1/Box	
1/4	6	1/4					WSAB750250	125772
5/16	8	5/16					WSAB750312	125789
3/8	10	3/8			WSAB180375	125505	WSAB750375	125796
7/16	11	7/16			WSAB180437	125512	WSAB750437	124973
1/2	13	7/16			WSAB180500	125529	WSAB750500	124980
9/16	14	7/16	WSAB360562	125178	WSAB180562	125536	WSAB750562	124997
5/8	16	7/16	WSAB360625	125185	WSAB180625	125543	WSAB750625	125666
11/16	17	7/16	WSAB360687	125192	WSAB180687	125550	WSAB750687	125673
3/4	19	7/16	WSAB360750	125239	WSAB180750	125567	WSAB750750	125680
13/16	21	7/16	WSAB360812	125246	WSAB180812	125574	WSAB750812	125697
7/8	22	7/16	WSAB360875	125253	WSAB180875	125581	WSAB750875	125703
15/16	24	7/16	WSAB360937	125260	WSAB180937	125598	WSAB750937	125710
1	25	7/16	WSAB361000	125277	WSAB181000	125604	WSAB751000	125727
1 1/16	27	7/16	WSAB361062	125284	WSAB181062	125611		
1 1/8	29	7/16	WSAB361125	125291	WSAB181125	125628	WSAB751125	125734
1 1/4	32	7/16			WSAB181250	125635	WSAB751250	125741
1 3/8	35	7/16			WSAB181375	125642	WSAB751375	125758
1 1/2	38	7/16			WSAB181500	125659	WSAB751500	125765



WOOD CUTTING



SPADE BITS

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

Applications

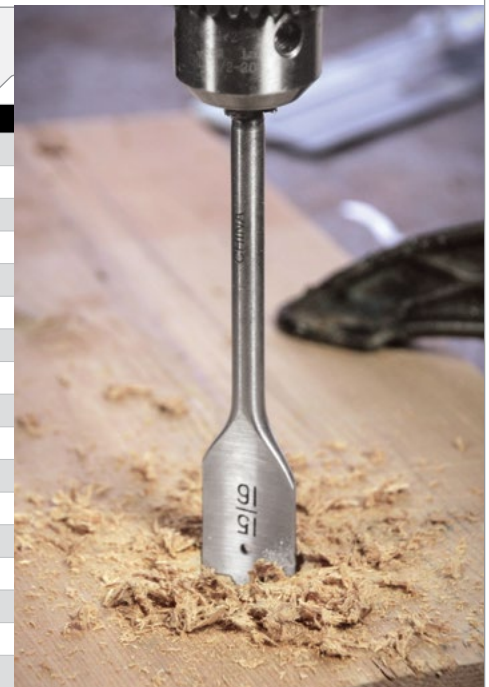
- ▼ Wood
- ▼ Plastic
- ▼ Plywood
- ▼ Formica
- ▼ Wood composites

Benefits

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



Bore Diameter		1/Card		10/Box	
in	mm	Model	Part	Model	Part
1/4	6	WSB250C	125307	WSB250	125000
3/16	8	WSB312C	125314	WSB312	125017
1/8	10	WSB375C	125321	WSB375	125024
7/16	11	WSB437C	125338	WSB437	125031
1/2	13	WSB500C	125345	WSB500	125048
9/16	14	WSB562C	125352	WSB562	125055
5/8	16	WSB625C	125369	WSB625	125062
11/16	17	WSB687C	125376	WSB687	125079
3/4	19	WSB750C	125383	WSB750	125086
13/16	21	WSB812C	125390	WSB812	125093
7/8	22	WSB875C	125406	WSB875	125109
15/16	24	WSB937C	125413	WSB937	125116
1	25	WSB1000C	125420	WSB1000	125123
1 1/8	29	WSB1125C	125437	WSB1125	125130
1 1/4	32	WSB1250C	125444	WSB1250	125147
1 3/8	35	WSB1375C	125451	WSB1375	125154
1 1/2	38	WSB1500C	125468	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

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.

Master Cobalt Hybrid

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

Metal

Bi-Metal

Advanced Edge Power

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

Advanced Edge Bolt

Best for faster cutting of machinable metals up to 1/4" thick with reduced vibration.

Master Cobalt Metal

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.

Pallet

Pallet Dismantler

Specifically designed for pallet recycling.

Drywall & Plaster

Plaster

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

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			1/Card		5/Card		15/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part	Model	Part
8	4	1	.050	102	25	1.3	CTR408MC1	405201				
8	6	1	.050	152	25	1.3	CTR608MC1	405218	CTR608MC5	405768	CTR608MC15	405799
8	9	1	.050	229	25	1.3	CTR908MC1	405225	CTR908MC5	405775	CTR908MC15	405805
8	12	1	.050	305	25	1.3	CTR1208MC1	405232	CTR1208MC15	405782	CTR1208MC15	405782



GENERAL PURPOSE 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



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

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			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	RB810T25	398749	RB810T50	400466
10	9	¾	.035	229	20	0.9	RB910T05	399654				
10	10	¾	.035	254	20	0.9	RB1010T05	402576			RB1010T50	402569
10	12	¾	.035	305	20	0.9	RB1210T05	400251			RB1210T50	400244
10/14	4	¾	.035	102	20	0.9	RB41014T05	402613			RB41014T50	402606
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	¾	.050	203	20	1.3	RB8501014T05	402071			RB8501014T50	402064
10/14	12	¾	.050	305	20	1.3	RB12501014STT05	398435			RB12501014STT50	398428

10	9	¾	.050	229	25	1.3	RB95010T05	404303	RB95010T25	404310		
10	12	¾	.050	305	25	1.3	RB125010T05	404242	RB125010T25	404259		

METAL BI-METAL



ADVANCED EDGE POWER®

The Morse Advanced Edge Power® reciprocating saw blade “powers” through the toughest applications. This heavy duty blade is perfect for cutting any machinable metal, as well as wood, wood composite, plastic, or rubber.

Features

- ▼ Available in 1" (25mm) width and .042" (1.00mm) thickness
- ▼ Straight tooth pitch
- ▼ Bi-metal construction

Benefits

- ▼ 1" (25mm) width blades provide more rigidity and beam strength
- ▼ .042" (1.00mm) thick blades accept heavier feed pressure
- ▼ Smooth cutting action
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		25/Tube		100/Box	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part	Model	Part
10	6	1	.042	152	25	1.1	RBWP64210T05	392006	RBWP64210T25	392013		
10	9	1	.042	229	25	1.1	RBWP94210T05	392068	RBWP94210T25	392075		
10	12	1	.042	305	25	1.1	RBWP124210T05	392129	BWP124210T25	392136		
14	6	1	.042	152	25	1.1	RBWP64214T05	392020	RBWP64214T25	392037		
14	9	1	.042	229	25	1.1	RBWP94214T05	392082	RBWP94214T25	392099		
14	12	1	.042	305	25	1.1	RBWP124214T05	392143	BWP124214T25	392150		
18	6	1	.042	152	25	1.1	RBWP64218T05	392044	RBWP64218T25	392051	RBWP64218B100	392266
18	9	1	.042	229	25	1.1	RBWP94218T05	392105	RBWP94218T25	392112	RBWP94218B100	392273
18	12	1	.042	305	25	1.1	RBWP124218T05	392167	BWP124218T25	392174	RBWP124218B100	392280



METAL BI-METAL



ADVANCED EDGE BOLT®

The Morse Advanced Edge BOLT® reciprocating saw blade cuts lightning fast. The patent pending design excels in applications of small solids and structural shapes.

Features

- ▼ Available in 3/4" (20mm) width and .035" (0.90mm) and .050" (1.30mm) thickness
- ▼ Variable tooth pitches
- ▼ Reinforced, positive rake tooth design
- ▼ Bi-metal construction

Benefits

- ▼ Use .035" (0.90mm) blades for flexibility in tight spaces
- ▼ Use .050" (1.30mm) blades for heavier feed pressure
- ▼ Smooth cutting action
- ▼ Fast cutting
- ▼ Impact resistant teeth
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
8/11	6	¾	.035	152	20	0.9	RBAE6811T05	393003	RBAE6811T50	393010
8/11	6	¾	.050	152	20	1.3	RBAE650811T05	393188	RBAE650811T50	393195
8/11	9	¾	.035	229	20	0.9	RBAE9811T05	393065	RBAE9811T50	393072
8/11	9	¾	.050	229	20	1.3	RBAE950811T05	393249	RBAE950811T50	393256
8/11	12	¾	.035	305	20	0.9	RBAE12811T05	393126	RBAE12811T50	393133
8/11	12	¾	.050	305	20	1.3	RBAE1250811T05	393300	RBAE1250811T50	393317
11/15	6	¾	.035	152	20	0.9	RBAE61115T05	393027	RBAE61115T50	393034
11/15	6	¾	.050	152	20	1.3	RBAE6501115T05	393201	RBAE6501115T50	393218
11/15	9	¾	.035	229	20	0.9	RBAE91115T05	393089	RBAE91115T50	393096
11/15	9	¾	.050	229	20	1.3	RBAE9501115T05	393263	RBAE9501115T50	393270
11/15	12	¾	.035	305	20	0.9	RBAE121115T05	393140	RBAE121115T50	393157
11/15	12	¾	.050	305	20	1.3	RBAE12501115T05	393324	RBAE12501115T50	393331
15/21	6	¾	.035	152	20	0.9	RBAE61521T05	393041	RBAE61521T50	393058
15/21	6	¾	.050	152	20	1.3	RBAE6501521T05	393225	RBAE6501521T50	393232
15/21	9	¾	.035	229	20	0.9	RBAE91521T05	393102	RBAE91521T50	393119
15/21	9	¾	.050	229	20	1.3	RBAE9501521T05	393287	RBAE9501521T50	393294
15/21	12	¾	.035	305	20	0.9	RBAE121521T05	393164	RBAE121521T50	393171
15/21	12	¾	.050	305	20	1.3	RBAE12501521T05	393348	RBAE12501521T50	393355





MASTER COBALT® METAL

The Morse Master Cobalt Metal reciprocating blade is the best choice for cutting any machinable metal up to 1/4" (6.4mm) in thickness.

Features

- ▼ Available in .035", .042, and .050" thickness
- ▼ Tapered blade body
- ▼ Straight and variable tooth pitch
- ▼ Reinforced tooth design with compound relief
- ▼ Positive rake on .050 x 6 TPI blades
- ▼ Bi-metal construction

Benefits

- ▼ .035 blades for flexibility in tight spaces
- ▼ .050 blades for increased rigidity and heavier feed pressure
- ▼ Best for plunge cutting
- ▼ Easier feed in wood
- ▼ High impact resistance
- ▼ More aggressive cutting
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
18	3	3/16	.035	76	6	0.9	RB318ST05	401999	RB318ST50	401982
14	4	3/8	.035	102	20	0.9	RB414T05	400237	RB414T50	400220
14	6	3/8	.035	152	20	0.9	RB614T05	400411	RB614T50	400404
14	6	3/8	.050	152	20	1.3	RB65014T05	399623	RB65014T50	399616
14	8	3/8	.035	203	20	0.9	RB814T05	400497	RB814T50	400480
14	9	3/8	.035	229	20	0.9	RB914T05	400985	RB914T50	400992
14	12	3/8	.035	305	20	0.9	RB1214T05	400138	RB1214T50	400121
18	4	3/8	.035	102	20	0.9	RB418T05	400275	RB418T50	400268
18	6	3/8	.035	152	20	0.9	RB618T05	400435	RB618T50	400428
18	6	3/8	.050	152	20	1.3	RB65018T05	399647	RB65018T50	399630
18	8	3/8	.035	203	20	0.9	RB818T05	402590	RB818T50	402583
18	9	3/8	.035	229	20	0.9	RB918T05	401005	RB918T50	401012
18	10	3/8	.035	254	20	0.9	RB1018T05	398497	RB1018T50	398480
18	12	3/8	.035	305	20	0.9	RB1218T05	400213	RB1218T50	400206
24	4	3/8	.035	102	20	0.9	RB424T05	400312	RB424T50	400305
24	6	3/8	.035	152	20	0.9	RB624T05	400459	RB624T50	400442



METAL BI-METAL

MORSE
MASTER COBALT METAL



TPI	in			mm			5/Card		25/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
14	6	1	.042	152	25	1.1	RB64214T05	404181	RB64214T25	404198
14	9	1	.042	229	25	1.1	RB94214T05	403900	RB94214T25	403917
14	9	1	.050	229	25	1.3	RB95014T05	404327	RB95014T25	404334
14	12	1	.042	305	25	1.1	RB124214T05	403962	RB124214T25	403979
14	12	1	.050	305	25	1.3	RB125014T05	404266	RB125014T25	404273
18	6	1	.042	152	25	1.1	RB64218T05	404204	RB64218T25	404211
18	9	1	.042	229	25	1.1	RB94218T05	403924	RB94218T25	403931
18	9	1	.050	229	25	1.3	RB95018T05	404341	RB95018T25	404358
18	12	1	.042	305	25	1.1	RB124218T05	403986	RB124218T25	403993
18	12	1	.050	305	25	1.3	RB125018T05	404280	RB125018T25	404297
24	6	1	.042	152	25	1.1	RB64224T05	404228	RB64224T25	404235

U-SHANK

U-SHANK RECIPROCATING SAW BLADES METAL

The Morse U-SHANK reciprocating saw blade is designed for cutting pipes and metal sections. Fits pipe clamp recip saws from manufacturers like REMS, Roller's, Ridgid, Pace and Flex.

Features

- ▼ Available in .035" thickness
- ▼ Blade widths of 1"
- ▼ Fine tooth pitch
- ▼ Bi-metal construction

Benefits

- ▼ .035" blades for flexibility in tight spaces
- ▼ 1" wide blades provide more rigidity and beam strength
- ▼ Metal cutting
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part
14	5½	1	.035	140	25	0.9	RBU5514T05	400039
14	8	1	.035	203	25	0.9	RBU814T05	400077
14	12	1	.035	305	25	0.9	RBU1214T05	403627

METAL WOOD



MASTER COBALT® WOOD

The Morse Master Cobalt Wood reciprocating blade is specifically designed for cutting all types of wood, wood composites, and nail embedded wood.

FEATURES

- ▼ Available in .035" and .050" thickness
- ▼ Tapered blade body
- ▼ Straight and variable tooth pitch
- ▼ Reinforced tooth design with compound relief
- ▼ Positive rake on .035 (0.90mm) and .050 (1.30mm) x 6 TPI blades
- ▼ Bi-metal construction

BENEFITS

- ▼ .035 blades for flexibility in tight spaces
- ▼ .050 blades for increased rigidity
- ▼ Best for plunge cutting
- ▼ Easier feed in wood
- ▼ High impact resistance
- ▼ More aggressive cutting
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
6	6	3/8	.050	152	12	1.3	RB65006CT05	399517	RB65006CT50	399500
2/3	12	3/4	.050	305	20	1.3	RB125023T05	401593	RB125023T50	401616
5/8	6	3/4	.050	152	20	1.3	RB65058T05	398510	RB65058T50	398503
5/8	12	3/4	.050	305	20	1.3			RB125058T50	398442
6	6	3/4	.035	152	20	0.9	RB63506T05	400190	RB63506T50	400183
6	6	3/4	.050	152	20	1.3	RB65006T05	402040	RB65006T50	402057
6	9	3/4	.035	229	20	0.9	RB93506T05	400176	RB93506T50	400169
6	9	3/4	.050	229	20	1.3	RB95006T05	402026	RB95006T50	402033
6	12	3/4	.035	305	20	0.9	RB123506T05	400152	RB123506T50	400145
6	12	3/4	.050	305	20	1.3	RB125006T05	402156	RB125006T50	402149



METAL BI-METAL



U-SHANK

U-SHANK RECIPROCATING SAW BLADES WOOD

The Morse U-SHANK reciprocating saw blade is designed for cutting wood. Fits pipe clamp recip saws from manufacturers like REMS, Roller's, Ridgid, Pace and Flex.



Features

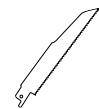
- ▼ Available in .050" and .062" thickness
- ▼ Blade widths of 1"
- ▼ Coarse tooth pitches
- ▼ Bi-metal construction

Benefits

- ▼ .050" and .062" blades for straighter cuts
- ▼ 1" wide blades provide more rigidity and beam strength
- ▼ Wood cutting
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part
6	12	1	.050	305	25	1.3	RBU1206T05	403641
8	5½	1	.062	140	25	1.6	RBU5508T05	400015
8	8	1	.062	203	25	1.6	RBU808T05	400053
8	10½	1	.062	269	25	1.6	RBU10508T05	399975
8	12	1	.062	305	25	1.6	RBU1208T05	403610



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



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



SPECIALTY DEMOLITION



HAVOC®

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.

Features

- ▼ Available in .062" (1.60mm) thickness
- ▼ Available in 7/8" (22mm) blade width
- ▼ Tapered blade body
- ▼ Straight tooth pitch
- ▼ Reinforced, positive rake 6 TPI tooth design
- ▼ Bi-metal construction

Benefits

- ▼ Provides minimum deflection for more stable cutting in wider cuts
- ▼ 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



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



SPECIALTY AUTOMOTIVE



AUTO SALVAGE®

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.

Features

- ▼ Available in .035" (0.90mm) thickness
- ▼ Available in ¾" (20mm) blade width
- ▼ Straight and variable tooth pitch
- ▼ Bi-metal construction

Benefits

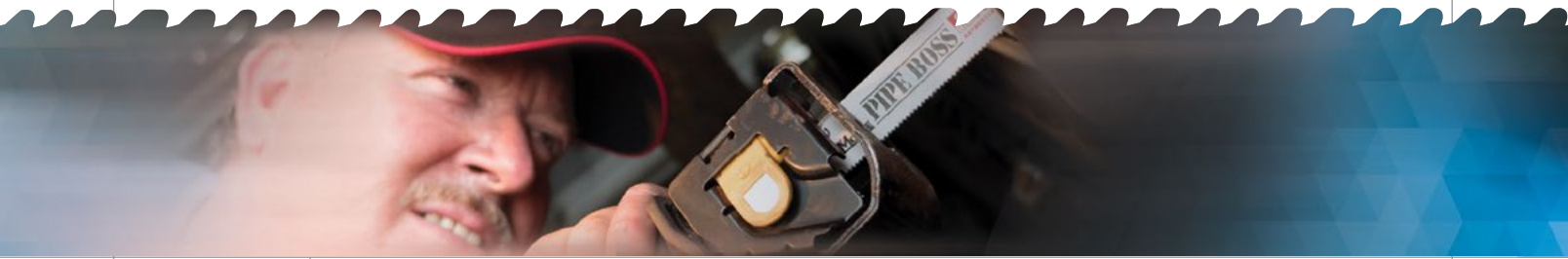
- ▼ .035" (0.90mm) thick blades for flexibility in tight spaces
- ▼ Cut between body panels, gets under stripped/rusted fasteners
- ▼ ¾" (20mm) wide blades provide flexibility
- ▼ Allows for cutting in hard to reach places that a cutting torch would otherwise create more damage
- ▼ Smooth cutting action
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
10/14	12	¾	.035	305	20	0.9	RBSA121014T05	395618	RBSA121014T50	395625
14	6	¾	.035	152	20	0.9	RBSA614T05	395519	RBSA614T50	395526
14	8	¾	.035	203	20	0.9	RBSA814T05	395557	RBSA814T50	395564
14	12	¾	.035	305	20	0.9	RBSA1214T05	395595	RBSA1214T50	395601
18	6	¾	.035	152	20	0.9	RBSA618T05	395533	RBSA618T50	395540
18	8	¾	.035	203	20	0.9	RBSA818T05	395571	RBSA818T50	395588
18	12	¾	.035	305	20	0.9	RBSA1218T05	395632	RBSA1218T50	395649



SPECIALTY AUTOMOTIVE



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

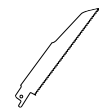
- ▼ Available in .050" (1.30mm) thickness
- ▼ Available in 1" (25mm) blade width
- ▼ Straight tooth pitch
- ▼ Bi-metal construction

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			5/Card		25/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
14	6	1	.050	152	25	1.3	RBPB65014T05	395014	RBPB65014T25	395021
14	9	1	.050	229	25	1.3	RBPB95014T05	395038	RBPB95014T25	395045
14	12	1	.050	305	25	1.3	RBPB125014T05	395052	RBPB125014T25	395069



SPECIALTY SAFETY



MORSE FIRE+RESCUE

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 7/8" blade width
- ▼ Straight tooth pitch
- ▼ Optimized set pattern
- ▼ Bi-metal construction

Benefits

- ▼ Provides minimum deflection for more stable cutting in wider cuts
- ▼ 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



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



SPECIALTY PALLET



PALLET DISMANTLER

PALLET DISMANTLER

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

Features

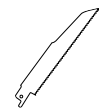
- ▼ Available in ¾" width by .035" thickness
- ▼ Round nose design
- ▼ Straight tooth pitch
- ▼ Narrow kerf

Benefits

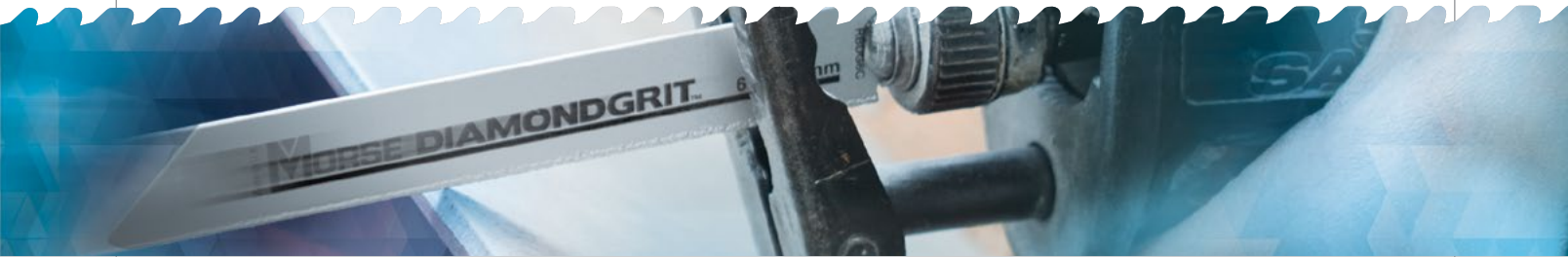
- ▼ .035" (0.90mm) blades for greater flexibility to get between boards
- ▼ Helps prevent blade from catching between boards
- ▼ Smooth cutting action
- ▼ Fast cutting
- ▼ Less damage to boards that can be re-used



TPI	in			mm			250/Box		500/Box	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
10	8	¾	.035	203	20	0.9	RB810RRPB250	401630	RB810RRPB500	401425
10	9	¾	.035	229	20	0.9	RB910RRPB250	401661		
10	10	¾	.035	254	20	0.9	RB1010RRB250	401463		



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 ¾"
- ▼ Special "V" tooth design
- ▼ Bi-metal construction

BENEFITS

- ▼ .050" blades for increased rigidity and heavier feed pressures
- ▼ ¾" wide blades provide flexibility
- ▼ Cuts in both directions
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		50/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
6	6	¾"	.050	152	20	1.3	RB606PT05	400350	RB606PT50	400343



SPECIALTY GRIT



DIAMOND GRIT™

DIAMOND GRIT®

The Morse DIAMOND GRIT reciprocating saw blade is specifically designed for the commercial or residential cutting of ceramics, granites, and stone.

Features

- ▼ Available in 3/4" width
- ▼ Tempered steel blade body
- ▼ Industrial diamond grit edge
- ▼ Narrow kerf

Benefits

- ▼ Blades provide flexibility
- ▼ Durable, straighter cuts
- ▼ Smooth cutting action
- ▼ Longer life than carbide grit
- ▼ Fast cutting



TPI	in			mm			1/Card	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part
Coarse	6	3/4"		152	20		RBDG6C	129701
Coarse	9	3/4"		229	20		RBDG9C	129718



CARBIDE GRIT

CARBIDE GRIT

The Morse CARBIDE GRIT reciprocating saw blade is the best design for cutting materials too thin, hard, or abrasive for conventional carbide tipped or bi-metal blades. Applications such as hardened steel, formed glass, fiberglass, laminates and composites.

Features

- ▼ Available in 3/4" (20mm) width
- ▼ Tempered steel body
- ▼ Carbide grit edge
- ▼ Narrow kerf

Benefits

- ▼ 3/4" wide blades for greater flexibility
- ▼ Durable, straighter cuts
- ▼ Won't tear thin materials
- ▼ Resistant to heat
- ▼ Fast cutting



TPI	in			mm			1/Card		3/Card		25/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part	Model	Part
Coarse	4	3/4"		102	20		RCTCG4	402750	RTCG4T03	403368	RTCG4T25	402910
Coarse	6	3/4"		152	20		RCTCG6	402767	RTCG6T03	403375	RTCG6T25	402927
Coarse	8	3/4"		203	20		RCTCG8	402774	RTCG8T03	403382	RTCG8T25	402934

RECIP KITS

RECIP KITS & ASSORTMENTS

Multi-pack assortments of popular blade types and sizes for a variety of applications. Kits come with plastic storage boxes or tubes.

MADE IN U.S.A.



Component	Size		TPI	General Purpose	Heavy Duty	Demolition	Contractor General Use	Contractor Heavy Duty	Assortment Card
	in	mm		RBKITGP01 397483	RBKITHD01 397490	RBKITDM01 397971	RBKIT03 405027	RBKIT01 405003	RBKIT02 405010
Master Cobalt® Wood	6	152	5/8	6			5	5	
	6	152	6				5	14	10
	9	229	6	2					
Master Cobalt® Metal	4	102	14						1
	4	102	18						1
	6	152	14				7	5	1
	6	152	18	2			7	5	1
	8	203	14	2					
Master Cobalt Hybrid®	6	152	10				7		
	6	152	10/14				5	7	5
	8	203	10/14	2					
Advanced Edge Power®	6	152	18		4				
	9	229	14		2				
Havoc®	6	152	6			2	4		
	6	152	10		2	2	8		
	9	229	6			2			
	9	229	10		2				
Renovator®	6	152	8/11			3			
	9	229	8/11			2			
Fire + Rescue	6	152	14		2				





MORSE AIR SAW BLADES

Blade Type

Metal

Bi-Metal

Application

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

METAL BI-METAL



AIR SAW

AIR SAW RECIPROCATING SAW BLADES

The Morse AIR SAW reciprocating saw blade is specifically designed for use in pneumatic saws for thin sheet metal applications. Primarily used for automotive body modification and sheet metal fabrication.

Features

- ▼ Available in .025" and .035" thickness
- ▼ Blade widths of ½"
- ▼ Straight tooth pitch
- ▼ Bi-metal construction

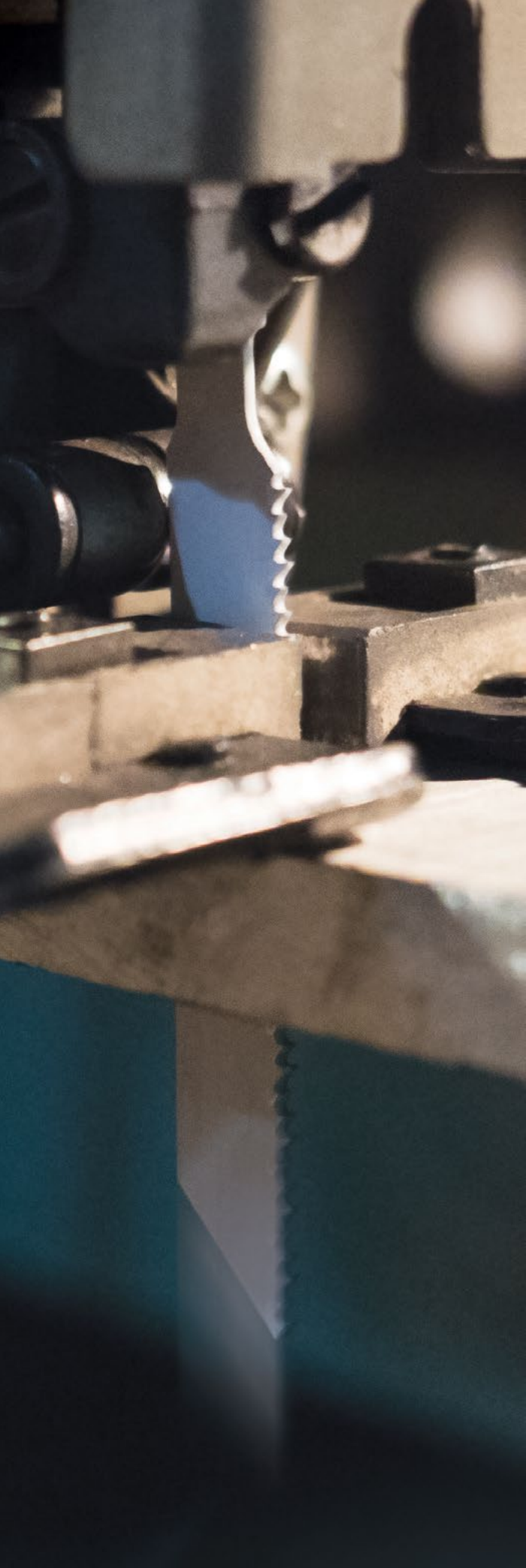
Benefits

- ▼ Cut between body panels and under stripped/rusted fasteners
- ▼ ½" wide blades provide flexibility for radius cuts
- ▼ Smooth cutting action
- ▼ Long cutting life
- ▼ Heat and wear resistant



TPI	in			mm			5/Card		25/Tube	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
10	3¾	½	.025	92	12.7	0.6			RBA3610T25	399128
10	4	½	.025	102	12.7	0.6			RBA410T25	396967
14	3	½	.025	76	12.7	0.6	RBA314T05	398220	RBA314T25	398572
14	3	½	.035	76	12.7	0.9	RBA33514T05	396806	RBA33514T25	396882
14	3¾	½	.025	92	12.7	0.6			RBA3614T25	399135
14	4	½	.025	102	12.7	0.6	RBA414T05	397506	RBA414T25	397513
14	4	½	.035	102	12.7	0.9	RBA43514T05	396844	RBA43514T25	396929
18	3	½	.025	76	12.7	0.6	RBA318T05	398244	RBA318T25	398589
18	3	½	.035	76	12.7	0.9	RBA33518T05	396813	RBA33518T25	396899
18	3¾	½	.025	92	12.7	0.6			RBA3618T25	399142
18	4	½	.025	102	12.7	0.6	RBA418T05	397520	RBA418T25	397537
18	4	½	.035	102	12.7	0.9	RBA43518T05	396851	RBA43518T25	396936
24	3	½	.025	76	12.7	0.6	RBA324T05	398268	RBA324T25	398596
24	3	½	.035	76	12.7	0.9	RBA33524T05	396820	RBA33524T25	396905
24	3¾	½	.025	92	12.7	0.6			RBA3624T25	399159
24	4	½	.025	102	12.7	0.6	RBA424T05	397544	RBA424T25	397551
24	4	½	.035	102	12.7	0.9	RBA43524T05	396868	RBA43524T25	396943
32	3	½	.025	76	12.7	0.6	RBA332T05	398282	RBA332T25	398602
32	3	½	.035	76	12.7	0.9	RBA33532T05	396837	RBA33532T25	396912
32	4	½	.025	102	12.7	0.6	RBA432T05	397568	RBA432T25	397575
32	4	½	.035	102	12.7	0.9	RBA43532T05	396875	RBA43532T25	396950





MORSE JIG SAW BLADES

Blade Type Application

General Purpose

Bi-Metal Designed primarily for cutting ferrous and non-ferrous metals. Larger toothed options efficiently cut wood and wood composites.

Wood Cutting

Carbon Used for cutting all types of wood and non-metal materials.

Specialty

Carbide Grit Specifically designed for cutting fiberglass, ceramics, composites, laminates and stone.

GENERAL PURPOSE BI-METAL



BI-METAL JIG SAW BLADES

For cutting ferrous and non-ferrous metals. Hard, durable high speed steel tooth points electron beam welded to a spring steel backer for toughness and stability during cutting.

Applications

- ▼ Machinable metal
- ▼ Wood
- ▼ Nail-embedded wood
- ▼ Composites
- ▼ Plastic
- ▼ Rubber

Benefits

- ▼ Milled and set teeth for better clearance while cutting metal
- ▼ Larger tooth (6, 8 tpi) are more efficient cutting in hard board, wood and other wood composites
- ▼ Available in a universal shank and T-shank



Recommended Use	in			mm			25/Tube		5/Card		2/Card		
	TPI	Length	Width Thickness	Length	Width Thickness	Model	Part	Model	Part	Model	Part		
T-Shank													
Wood, fiber board, asbestos, roughing work.	6	4	3/8	.035	100	10	.9	SBO406T25	400732	SBO406C5	404600	SBO406C2	397704
General purpose - wood cutting, compositions, plastic.	8	4	3/8	.035	100	10	.9	SBO408T25	400756	SBO408C5	404617	SBO408C2	397711
All woods, composition material, plastics, plywood. Steel and non-ferrous.	10	4	3/8	.035	100	10	.9	SBO410T25	400770	SBO410C5	404624	SBO410C2	397728
Steel and non-ferrous metal 1/8" thick and up.	14	3	3/8	.035	75	10	.9	SBO314T25	400671	SBO314C5	404570	SBO314C2	397674
Metals over 18 gauge, tubing, conduit.	18	3	3/8	.035	75	10	.9	SBO318T25	400695	SBO318C5	404587	SBO318C2	397681
Thin metal, plastic fine cuts under 18 gauge	24	3	3/8	.035	75	10	.9	SBO324T25	400718	SBO324C5	404594	SBO324C2	397698
Softwood, aluminum, non-ferrous metal up to 3/8", sandwich material up to 3/4". Extra long blade.	12	5 1/2	3/8	.042	132	8	1.1	SBO512LT25	401272	SBO512LC5	404631		
Softwood, aluminum, non-ferrous metal up to 3/8", sandwich material up to 3/4". Extra long blade.	21	5 1/2	3/8	.042	132	8	1.1	SBO521LT25	401319	SBO521LC5	404648		
Universal Shank													
Wood, fiber board, asbestos, coarse-cut.	6	4	3/8	.035	100	10	.9	SB3606T25	400855	SB3606C5	404549	SB3606C2	397636
Wood, plywood, hard-board.	10	4	3/8	.035	100	10	.9	SB3610T25	400879	SB3610C5	404556	SB3610C2	397643
Non-ferrous metals, fiberglass, hard rubber, nail-embedded wood.	14	4	3/8	.035	100	10	.9	SB3614T25	400893	SB3614C5	404563	SB3614C2	397650
Metal 18 gauge to 1/4".	18	3	3/8	.035	75	10	.9	SB2718T25	400794	SB2718C5	404518	SB2718C2	397612
Metal and non-ferrous metal up to 1/4".	24	3	3/8	.035	75	10	.9	SB2724T25	400831	SB2724C5	404525	SB2724C2	397629
Scroll - non-ferrous metals, fiberglass, plywood.	12	3 1/2	3/8	.035	92	5	.9	SB412ST25	399487	SB412SC5	404532	SB412SC2	397667
Scroll - metal 18 gauge to 1/4".	18	2 1/2	3/8	.035	70	5	.9	SB2718ST25	402972	SB2718SC5	404501	SB2718SC2	397605



WOOD CARBON



CARBON JIG SAW BLADES

Used for cutting all types of wood and non-metallic products. The ground/cross sharpened teeth offer very clean and fast cuts. Specs also available in milled and set style teeth. Shank styles are available in either universal or T-shank.

Applications

- ▼ Softwood
- ▼ Hardwood
- ▼ Chipboards
- ▼ Plywood
- ▼ Plastic

Benefits

- ▼ High quality carbon steel blades are ideal for cutting woods, chipboards, plywoods, plastic, and similar material.
- ▼ Available in both universal shank and T-shank
- ▼ Tooth styles are either milled or cross sharpened-conical ground



Recommended Use	in			mm			25/Tube		5/Card		2/Card		
	TPI	Length	Width Thickness	Length	Width Thickness	Model	Part	Model	Part	Model	Part		
T-Shank													
Curved cuts/scroll in softwood and hardwood up to 2" thick. Fast cutting.	6	4	¼	.050	100	6	1.3	SCO416ST25	400534	SCO416SC5	404907	SCO416SC2	397957
Softwood, hardwood, plywood, chipboard. Fast coarse cutting.	6	4	⅜	.050	100	8	1.3	SCO46T25	401401	SCO46C5	404914	SCO46C2	397964
Softwood, hardwood, plywood, chipboard, plastic up to 2" thick. Clean/fast cutting.	6	4	⅜	.060	100	8	1.5	SCO406T25	400329	SCO406C5	404921	SCO406C2	397926
Softwood, hardwood, plywood, chipboard, plastic up to 1" thick. Very clean cuts.	10	4	⅜	.060	100	8	1.5	SCO410T25	400510	SCO410C5	404938	SCO410C2	397940
Reverse tooth - non-splitting cuts of laminates and chipboard. Very clean cutting.	10	4	⅜	.060	100	8	1.5	SCO410RT25	400503	SCO410RC5	404945	SCO410RC2	397933
Curved cuts/scroll in softwood and hardwood up to 1" thick. Fast cutting.	20	3	⅜	.050	75	5	1.3	SCO320ST25	401364	SCO320SC5	404891	SCO320SC2	397919
Universal Shank													
Softwood, hardwood, plywood, chipboard, plastic up to 2" thick. Clean/fast cutting.	6	4	⅜	.050	100	8	1.3	SC406T25	399722	SC406C5	404853	SC406C2	397865
Softwood, hardwood, plywood, chipboard, plastic up to 1" thick. Very clean cuts.	10	4	⅜	.050	100	8	1.3	SC410T25	399746	SC410C5	404860	SC410C2	397889
Reverse tooth - non-splitting cuts of laminates, and chipboard. Very clean cutting.	10	4	⅜	.060	100	8	1.5	SC410RT25	399739	SC410RC5	404877	SC410RC2	397872
Scroll cutting wood, plywoods, etc. Super fine finish. Ground, taper back.	20	2¾	⅜	.050	70	5	1.3	SC2720T25	399692	SC2720C5	404815	SC2720C2	397834



SPECIALTY GRIT



CARBIDE GRIT JIG SAW BLADES

For cutting materials too hard, or abrasive or thin for bi-metal blades. Tungsten carbide grains are bonded to alloy body creating smooth cutting blades that won't tear thin materials and offer a long life when cutting difficult materials. Used for cutting fiberglass, ceramic tile, composites, laminates, marble floor tiles, etc.

Applications

- ▼ Fiberglass
- ▼ Lath
- ▼ Ceramic
- ▼ Marble
- ▼ Other abrasive material

Benefits

- ▼ Super resistance to heat and shock
- ▼ Fast cuts with carbide grains bonded to an alloy backer, no snags or binding
- ▼ Ideal for cutting materials too hard or abrasive for standard bi-metal blades



Grit	in			mm			25/Tube		1/Card	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part
T-Shank										
Fine	4	3/8	.042	100	10	1.1	SOTCG4-FT25	402828	SCOTCG4-F	402668
Medium	4	3/8	.042	100	10	1.1	SOTCG4-MT25	402835	SCOTCG4-M	402675
Coarse	4	3/8	.042	100	10	1.1	SOTCG4-CT25	402842	SCOTCG4-C	402682
Universal Shank										
Fine	2 3/4	5/16	.035	70	8	.9	STCG27-FT25	402859	SCTCG27-F	402699
Medium	2 3/4	5/16	.035	70	8	.9	STCG27-MT25	402866	SCTCG27-M	402705
Coarse	2 3/4	5/16	.035	70	8	.9	STCG27-CT25	402873	SCTCG27-C	402712
Fine	3 3/8	5/16	.035	92	8	.9	STCG36-FT25	402880	SCTCG36-F	402729
Medium	3 3/8	5/16	.035	92	8	.9	STCG36-MT25	402897	SCTCG36-M	402736
Coarse	3 3/8	5/16	.035	92	8	.9	STCG36-CT25	402903	SCTCG36-C	402743

Kits

Model	Part	Shank	Recommended Use	TPI	in			mm			
					Length	Width	Thickness	Length	Width	Thickness	
	SBC01	402163	Universal	Metal 18 gauge to 1/8".	18	3	3/8	.035	75	10	.9
	Universal	Metal and non-ferrous metal up to 1/8".	24	3	3/8	.035	75	10	.9		
	Universal	Wood, fiber board, asbestos, coarse-cut.	6	4	3/8	.035	100	10	.9		
	Universal	Wood, plywood, hard-board.	10	4	3/8	.035	100	10	.9		
	Universal	Non-ferrous metals, fiberglass, hard rubber, nail-embedded wood.	14	4	3/8	.035	100	10	.9		





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.

METAL CARBIDE/CERMET



METAL DEVIL METAL-CUTTING CIRCULAR SAW BLADES

Cut through steel and other tough metals faster than ever. Unique combinations of metallurgy and blade configurations are tailored for peak performance in specific applications.

Applications

- ▼ Steel, angle iron, steel plate, channel iron, I-beams, pipe
- ▼ Thin Steel
- ▼ Stainless Steel (¼ or less)
- ▼ Aluminum
- ▼ Steel Studs (14" only)

Benefits

- ▼ Optimized for cordless metal cutting circular saws
- ▼ Cuts thin material without bending the edge
- ▼ Quick, clean, accurate cutting without secondary work
- ▼ Cut edges cool enough to handle immediately

Blade Diameter		Applications	Teeth	Arbor	Max RPM	Model	Part	Machines
in	mm							
5 3/8	137	Steel	32	½	4,200	CSM5383258NSC	101332	Makita BCS550; BSS501; XSC01Z; XSC01T; XSS03 Bosch CSM180B; CSM180-01 Milwaukee 2782-20; 2782-22
		Steel	32	10 / 20 / ½	4,200	CSM53832NSC	101325	Milwaukee M18 Makita BCS550; BSS501 Panasonic EY3530NQMKW; EY452LN2M
		Aluminum	48	10 / 20 / ½	4,200	CSM53848NAC	101578	
		Thin Steel	50	20	4,200	CSM53850CLTSC	101769	
6 1/4	159	Aluminum	54	½	4,200	CSM62554NAC	101585	Makita 5046DWDE
		Steel	48	16 / 20	4,200	CSM62548NSIC	101509	Standard Circular Saws
		Thin Steel	56	20	4,200	CSM62556CLTSC	101776	Cordless Circular Saws
6 1/2	165	Steel	40	20	4,200	CSM6504020NSC	101523	Panasonic EY3552GQW Hilti SCM22-A; SCW22-A; 03490197
		Steel	40	½	4,200	CSM65040NSC	101516	Bosch CCS180K; 1617K; XSS01 Makita BSS610 Dewalt DC310K; DC390; DC390K Rigid R3203
		Steel	40	½	4,200	CSM6504058CLSC	100984	
		Stainless Steel	48	½	4,200	CSM6504858CLSSC	101714	
		Aluminum	56	½	4,200	CSM6505658CLAC	101738	Panasonic EY3552GQW Hilti SCM22-A; SCW22-A; 03490197
		Steel	40	20	4,200	CSM6504020CLSC	101745	
		Stainless Steel	48	20	4,200	CSM6504820CLSSC	101707	
Aluminum	56	20	4,200	CSM6505620CLAC	101721			
6 3/4	171	Steel	40	20	4,200	CSM67540NSC	101530	Dewalt DW934K-2 Standard Circular Saws
7	178	Steel	40	20	5,800	CSM740NSC	101363	Morse CSM7MB / CSM7NXTB Evolution Steel Saw Jancy MCSL07-2 Milwaukee 0740-20 Unifire (T-Rex) T-Rex7
		Stainless Steel	44	20	5,800	CSM744NSSC	101677	
		Aluminum	54	20	5,800	CSM754NAC	101608	
		Thin Steel	68	20	5,800	CSM768NTSC	101783	
7 1/4	184	Steel	40	½ KO	5,800	CSM72540NSC	101349	Morse CSM7MB / CSM7NXTB Bosch CS5; CS10; CS20; 1677M; 1677MD Dewalt DC300K; 364; DW368; DW369CSK; DCS574; DCS578 Makita 4131; 5057KB; 5007FAK; 5007FK; 5740NB; 5377MG; 5277NB; XSR10; XSH01 Milwaukee 2733-20; 6390-20; 6391-21; 6394-21; 6477-20
		Steel	48	½ KO	5,800	CSM72548NSC	101356	
		Aluminum	60	½	5,800	CSM72560NAC	101615	
		Thin Steel	68	½ KO	5,800	CSM72568NTSC	101790	Morse CSM7MB / CSM7NXTB Evolution Fury; Outrage; Rage 1; Rage 4; EVOSAW185HD; EVOSAW180HD Steelmax SM-S7 XP Fein 6990812000 Alfra RS185
		Steel	40	20	5,800	CSM7254020NSC	101547	
		Steel	48	20	5,800	CSM72548NSIC	101554	

▼ Certain 5 3/8 and 6 1/4 blades include special bushings that allow them to fit multiple arbor hole sizes.

▼ ½ KO fits both diamond and circular arbors. ▼ 10 / 16 / 20 are mm size arbors



METAL CARBIDE/CERMET

Blade Diameter		Applications	Teeth	Arbor	Max RPM	Model	Part	Machine
in	mm							
8	203	Steel	42	½	5,800	CSM842NSC	101387	Milwaukee 6370-20; 6370-21; 2982-20/21 Skilsaw SPT78MMC-01; SPT78MMC-22
		Steel	48	½	5,800	CSM848NSC	101394	
		Stainless Steel	50	½	5,800	CSM850NSSC	101684	
		Aluminum	60	½	5,800	CSM860NAC	101622	
		Thin Steel	68	½	5,800	CSM868NTSC	101806	
8 ¼	210	Steel	48	¾ KO	5,800	CSM82548NSC	101370	Dewalt DW384 Makita 5008MGA
9	229	Steel	48	1	3,200	CSM948NSC	101400	Morse CSM9MB; CSM9NXTB Evolution Steel Saw 5; EVOSAW230 Jancy MCSL09; MCSL09-2 Fein (Sluggler) 69908120001 Sluggler MSCLO9 Steelmax SM-S9 Alfra RS230 Jepsen 8230N
		Stainless Steel	56	1	3,200	CSM956NSSC	101691	
		Thin Steel	68	1	3,200	CSM968NTSC	101813	
		Aluminum	72	1	3,200	CSM972NAC	101639	
10	254	Thin Steel	52	¾	5,200	CSM1052NTSC	101820	Bosch 4410; 4405; GTS1031; 4100XC-10; 4100-1; CM10GD Dewalt DW713 Rigid MS1065LZA
		Aluminum	72	¾	5,200	CSM1072NAC	101646	
12	305	Steel	60	1	1,800	CSM1260NSC	101561	Makita LC1230 Milwaukee 6955-20 Skilsaw SPT62MTC-22
		Aluminum	80	1	3,800	CSM1280NAC	101653	
		Thin Steel	80	1	2,000	CSM1280NTSC	101837	
14	356	Steel	66	1	1,800	CSM1466NSC	101318	Morse CSM14MB Dewalt DW872 Evolution Fury2; Rage2; Steel Saw2; EVOSAW380 Jancy MCCS14; MCCS14-2 Milwaukee 6190-20 Rigid 614 Fein MCCS14 Unitec 9435 Steelmax S14 Alfra RD355A Jepsen 9435 Hitachi CD14F
		Aluminum	80	1	3,800	CSM1480NAC	101660	
		Steel Studs	81	1	1,800	CSM1481NSTC	100786	
		Thin Steel	90	1	1,800	CSM1490NTSC	101844	
		Stainless Steel	90	1	1,800	CSM1490NSSC	100793	



CIRCULAR SAW MACHINES



METAL DEVIL NXT® CIRCULAR SAWS

M. K. Morse stocks factory original circular saw machine parts and offers machine repairs at our facility in Canton, Ohio.



7" CSM7NXTB

COMPUTER NO. 100960

INCLUDES

Laser Guide, 0-45° Beveling, Overload Switch, Cutting Guide, Ergonomically Designed Side Handle, Retracting Blade Guard, Quick Release Metal Chip Collection Chamber and Easy Blade Changes, 7' Power Cord, Carrying Case, Safety Goggles, Ear Plugs, Metal Devil NXT Steel Cutting Blade.

CUTTING CAPABILITIES

2³/₈" Maximum Cutting Reach
 1/4" Maximum Thickness of Cut Mild Steel
 0-45° Bevel Cut

SPECIFICATIONS

3800 RPM | 1560 Watts
 120 V | 60Hz | 13 Amp
 20mm Arbor
 Weight: 18 lbs



9" CSM9NXTB

COMPUTER NO. 100977

INCLUDES

Laser Guide, 0-45° Beveling, Overload Switch, Cutting Guide, Ergonomically Designed Side Handle, Retracting Blade Guard, Quick Release Metal Chip Collection Chamber and Easy Blade Changes, 7' Power Cord, Carrying Case, Safety Goggles, Ear Plugs, Metal Devil NXT Steel Cutting Blade.

CUTTING CAPABILITIES

3 1/4" Maximum Cutting Reach
 3/8" Maximum Thickness of Cut Mild Steel
 0-45° Bevel Cut

SPECIFICATIONS

2300 RPM | 1800 Watts
 120 V | 60Hz | 15 Amp
 1" Arbor
 Weight: 22 lbs



14" CSM14MB

COMPUTER NO. 101172

INCLUDES

0-45° Mitering Vice, Overload Switch, Retracting Blade Guard, Quick Release Metal Chip Collection Chamber, 6mm and 8mm, Blade Wrench, Safety Goggles, Ear Plugs, Metal Devil NXT, Steel Cutting Blade.

CUTTING CAPABILITIES

	45°	90°
ROUND	4 1/8"	5 1/8"
SQUARE	3 1/2" X 3 1/2"	4 3/4" X 4 3/4"
RECTANGLE	3 1/8" X 4 3/8"	3 3/4" X 7 1/4"

SPECIFICATIONS

1300 RPM
 120 V | 60Hz | 15 Amp
 1" Arbor
 Weight: 53 lbs



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





METAL DEVIL CUT-OFF WHEELS
DIAMOND EDGE

Blade Type

Metal

Diamond Edge

Application

Designed for fast, efficient cutting of a wide range of metals including stainless steel, steel, cast iron, rebar, tubing and structural steel.

4 1/2"
114mm



6"
152mm



7"
178mm



12"
305mm



14"
356mm



METAL GRIT



DIAMOND EDGE

METAL DEVIL DIAMOND EDGE

Using an innovative new process, diamond crystal is permanently brazed to the blade and remains fixed for continuous cutting throughout the life of the wheel.

Applications

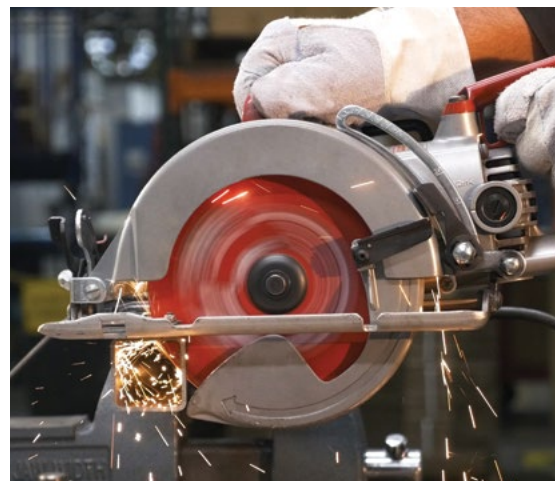
- ▼ Metal studs
- ▼ Tubing and structural steel
- ▼ Stainless
- ▼ Non-ferrous
- ▼ Steel
- ▼ Rebar
- ▼ Cast iron and solids

Benefits

- ▼ Solid steel body maintains wheel diameter throughout its life and greatly reduces the danger of breakage.
- ▼ Vacuum brazed technology permanently bonds diamond crystals to the wheel, providing long blade life. Lasts up to 60 times longer than traditional abrasive wheels.
- ▼ Thin kerf design cuts faster and produces less dust and debris than traditional abrasive wheels.

Blade Diameter		Thickness		Grit	Arbor	Max RPM	Model	Part
in	mm	in	mm					
4½	114	.050	1.3	Diamond	⅝ / ⅝	13,000	CSD4500C	102001
6	152	.050	1.3	Diamond	⅝ / ⅝	10,185	CSD6000C	102018
7	178	.060	1.5	Diamond	⅝ / ⅝ KO	8,730	CSD7000C	102025
12	305	.125	3.2	Diamond	1 / 20mm	6,115	CSD12000C	102032
14	356	.125	3.2	Diamond	1 / 20mm	5,500	CSD14000C	102049

⅝ KO fits both diamond and circular arbors.





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



811 & 1216

These high performance bi-metal portable band saw blades are the only two blades you'll need for the range of materials cut with this tool. They cut up to 2X faster and last up to 2X longer than conventional portable band saw blades. The Morse 811 outperforms 10/14 blades for cutting materials 1/4" and thicker. The Morse 1216 outperforms 18 tooth blades when cutting materials 3/16" and thinner.

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

- ▼ Experience best in category performance from patent pending tooth designs
- ▼ Cut more in less time with up to 2X faster cut speed
- ▼ Spend more time cutting and less time changing blades with up to 2X longer blade life
- ▼ Cut longer with less fatigue with reduced vibration cutting
- ▼ Leaves a clean finish for welding
- ▼ Saw a wide range of materials with variable pitch blade
- ▼ Cut machinable metals with shock resistant bi-metal teeth



Length x Width x Thickness		TPI	Set	3/Box		25/Box		Bulk 100/Box	
in	mm			Model	Part	Model	Part	Model	Part
811 - Cut Materials 1/4" and Thicker									
27 ³ / ₁₆ X 1/2 X .020	691 X 13 X .50	8/11	Modified Raker	ZWEP27811MC	002653	ZWEP27811MCB25	005203	ZWEP27811MCB	005241
28 ³ / ₁₆ X 1/2 X .020	732 X 13 X .50	8/11	Modified Raker	ZWEP28811MC	002660	ZWEP28811MCB25	005210	ZWEP28811MCB	005258
32 ³ / ₁₆ X 1/2 X .020	835 X 13 X .50	8/11	Modified Raker	ZWEP32811MC	002677	ZWEP32811MCB25	005227	ZWEP32811MCB	005265
35 ³ / ₁₆ X 1/2 X .020	899 X 13 X .50	8/11	Modified Raker	ZWEP35811MC	002684	ZWEP35811MCB25	005234	ZWEP35811MCB	005272
44 ³ / ₁₆ X 1/2 X .020	1140 X 13 X .50	8/11	Modified Raker	ZWEP44811MC	002486	ZWEP44811MCB25	002462	ZWEP44811MCB	002455
1216 - Cut Materials 3/16" and Thinner									
27 ³ / ₁₆ X 1/2 X .020	691 X 13 X .50	12/16	Modified Raker	ZWEP271216MC	002691	ZWEP271216MCB25	005289	ZWEP271216MCB	005326
28 ³ / ₁₆ X 1/2 X .020	732 X 13 X .50	12/16	Modified Raker	ZWEP281216MC	002707	ZWEP281216MCB25	005296	ZWEP281216MCB	005333
32 ³ / ₁₆ X 1/2 X .020	835 X 13 X .50	12/16	Modified Raker	ZWEP321216MC	002714	ZWEP321216MCB25	005302	ZWEP321216MCB	005340
35 ³ / ₁₆ X 1/2 X .020	899 X 13 X .50	12/16	Modified Raker	ZWEP351216MC	002721	ZWEP351216MCB25	005319	ZWEP351216MCB	005357
44 ³ / ₁₆ X 1/2 X .020	1140 X 13 X .50	12/16	Modified Raker	ZWEP441216MC	002738	ZWEP441216MCB25	002745	ZWEP441216MCB	002752



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 ³ / ₁₆ X 1/2 X .020	691 X 12.7 X .50	14/18	Wavy	ZWEP271418MC	001823	ZWEP271418MCB25	005395	ZWEP271418MCB	001847
28 ¹³ / ₁₆ X 1/2 X .020	732 X 12.7 X .50	10/14	Modified Raker	ZWEP281014MC	001755	ZWEP281014MCB25	005364	ZWEP281014MCB	001786
28 ¹³ / ₁₆ X 1/2 X .020	732 X 12.7 X .50	14/18	Wavy	ZWEP281418MC	001748	ZWEP281418MCB25	005401	ZWEP281418MCB	001779
32 ⁷ / ₁₆ X 1/2 X .020	835 X 12.7 X .50	10/14	Modified Raker	ZWEP321014MC	001861	ZWEP321014MCB25	005371	ZWEP321014MCB	003292
32 ⁷ / ₁₆ X 1/2 X .020	835 X 12.7 X .50	14/18	Wavy	ZWEP321418MC	001892	ZWEP321418MCB25	005418	ZWEP321418MCB	003308
32 ⁷ / ₁₆ X 1/2 X .020	835 X 12.7 X .50	20/24	Wavy	ZWEP322024MC	001878	ZWEP322024MCB25	005432	ZWEP322024MCB	003315
35 ³ / ₁₆ X 1/2 X .020	899 X 12.7 X .50	10/14	Modified Raker	ZWEP351014MC	003049	ZWEP351014MCB25	005388	ZWEP351014MCB	003445
35 ³ / ₁₆ X 1/2 X .020	899 X 12.7 X .50	14/18	Wavy	ZWEP351418MC	003056	ZWEP351418MCB25	005425	ZWEP351418MCB	003452
35 ³ / ₁₆ X 1/2 X .020	899 X 12.7 X .50	20/24	Wavy	ZWEP352024MC	003063	ZWEP352024MCB25	005449	ZWEP352024MCB	003469
44 ¹ / ₁₆ X 1/2 X .020	1140 X 12.7 X .50	10/14	Modified Raker	ZWEP441014MC	001175	ZWEP441014MCB25	002356	ZWEP441014MCB	002233
44 ¹ / ₁₆ X 1/2 X .020	1140 X 12.7 X .50	14/18	Wavy	ZWEP441418MC	001182	ZWEP441418MCB25	002295	ZWEP441418MCB	002240
44 ¹ / ₁₆ X 1/2 X .020	1140 X 12.7 X .50	20/24	Wavy	ZWEP442024MC	001199	ZWEP442024MCB25	005562	ZWEP442024MCB	002257
44 ¹ / ₁₆ X 1/2 X .025	1140 X 12.7 X .63	10/14	Modified Raker	ZWEP44251014	001953	ZWEP44251014B25	001991	ZWEP44251014WB	005586
44 ¹ / ₁₆ X 1/2 X .025	1140 X 12.7 X .63	14/18	Wavy	ZWEP44251418	001960	ZWEP44251418B25	002004	ZWEP44251418WB	005593
53 ¹ / ₁₆ X 1/2 X .020	1365 X 12.7 X .50	10/14	Modified Raker	ZWEP531014	001311				
53 ¹ / ₁₆ X 1/2 X .020	1365 X 12.7 X .50	14/18	Wavy	ZWEP531418	001328				



METAL BI-METAL

STRAIGHT PITCH BI-METAL

Featuring bi-metal construction for long blade life and straight pitch teeth for better chip clearance and fast 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

- ▼ Straight pitch teeth provide better chip clearance for fast cutting
- ▼ 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
Standard Pitch									
27 ¹⁶ / ₃₂ X 1/2 X .020	691 X 12.7 X .50	18	Wavy	ZWEP2718W	001830	ZWEP2718WB25	005456	ZWEP2718WB	001854
28 ¹⁹ / ₃₂ X 1/2 X .020	732 X 12.7 X .50	24	Wavy	ZWEP2824W	001762	ZWEP2824WB25	005463	ZWEP2824WB	001793
32 ⁷ / ₃₂ X 1/2 X .020	835 X 12.7 X .50	10	Raker	ZWEP3210R	001885	ZWEP3210RB25	005470	ZWEP3210RB	003254
32 ⁷ / ₃₂ X 1/2 X .020	835 X 12.7 X .50	14	Wavy	ZWEP3214W	001908	ZWEP3214WB25	005487	ZWEP3214WB	003261
32 ⁷ / ₃₂ X 1/2 X .020	835 X 12.7 X .50	18	Wavy	ZWEP3218W	001915	ZWEP3218WB25	005494	ZWEP3218WB	003278
32 ⁷ / ₃₂ X 1/2 X .020	835 X 12.7 X .50	24	Wavy	ZWEP3224W	001922	ZWEP3224WB25	005500	ZWEP3224WB	003285
35 ⁵ / ₃₂ X 1/2 X .020	899 X 12.7 X .50	10	Raker	ZWEP3510R	003001	ZWEP3510RB25	005517	ZWEP3510RB	003407
35 ⁵ / ₃₂ X 1/2 X .020	899 X 12.7 X .50	14	Wavy	ZWEP3514W	003018	ZWEP3514WB25	005524	ZWEP3514WB	003414
35 ⁵ / ₃₂ X 1/2 X .020	899 X 12.7 X .50	18	Wavy	ZWEP3518W	003025	ZWEP3518WB25	005531	ZWEP3518WB	003421
35 ⁵ / ₃₂ X 1/2 X .020	899 X 12.7 X .50	24	Wavy	ZWEP3524W	003032	ZWEP3524WB25	005548	ZWEP3524WB	003438
44 ¹ / ₃₂ X 1/2 X .020	1140 X 12.7 X .50	10	Raker	ZWEP4410R	001205	ZWEP4410RB25	005555	ZWEP4410RB	002158
44 ¹ / ₃₂ X 1/2 X .020	1140 X 12.7 X .50	14	Wavy	ZWEP4414W	001212	ZWEP4414WB25	002318	ZWEP4414WB	002165
44 ¹ / ₃₂ X 1/2 X .020	1140 X 12.7 X .50	18	Wavy	ZWEP4418W	001229	ZWEP4418WB25	002301	ZWEP4418WB	002172
44 ¹ / ₃₂ X 1/2 X .020	1140 X 12.7 X .50	24	Wavy	ZWEP4424W	001236	ZWEP4424WB25	005579	ZWEP4424WB	002189
44 ¹ / ₃₂ X 1/2 X .025	1140 X 12.7 X .63	14	Wavy	ZWEP442514W	001939	ZWEP442514WB25	001977	ZWEP442514WB	005609
44 ¹ / ₃₂ X 1/2 X .025	1140 X 12.7 X .63	18	Wavy	ZWEP442518W	001946	ZWEP442518WB25	001984	ZWEP442518WB	005616
53 ³ / ₃₂ X 1/2 X .020	1365 X 12.7 X .50	10	Raker	ZWEP5310R	001274				
53 ³ / ₃₂ X 1/2 X .020	1365 X 12.7 X .50	14	Wavy	ZWEP5314W	001281				
53 ³ / ₃₂ X 1/2 X .020	1365 X 12.7 X .50	18	Wavy	ZWEP5318W	001298				
53 ³ / ₃₂ X 1/2 X .020	1365 X 12.7 X .50	24	Wavy	ZWEP5324W	001304				
54 X 1/2 X .025	1372 X 12.7 X 6.4	10	Raker	ZWEP5410R	001342				
54 X 1/2 X .025	1372 X 12.7 X 6.4	14	Wavy	ZWEP5414W	001359				
54 X 1/2 X .025	1372 X 12.7 X 6.4	18	Wavy	ZWEP5418W	001366				
54 X 1/2 X .025	1372 X 12.7 X 6.4	24	Wavy	ZWEP5424W	001373				





MORSE
STATIONARY BAND SAW BLADES

Blade Type

Stationary Band
Saw Blades

Application

Designed for cutting wood and easy to
machine metals including radius cuts.

WOOD CARBON



STATIONARY BAND SAW BLADES

Designed for use on stationary band saws, these carbon hard edge flexible back blades have teeth hardened to Rc 64-66. Reliable cutting action on wood and low alloy metals with guaranteed welds.



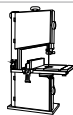
Applications

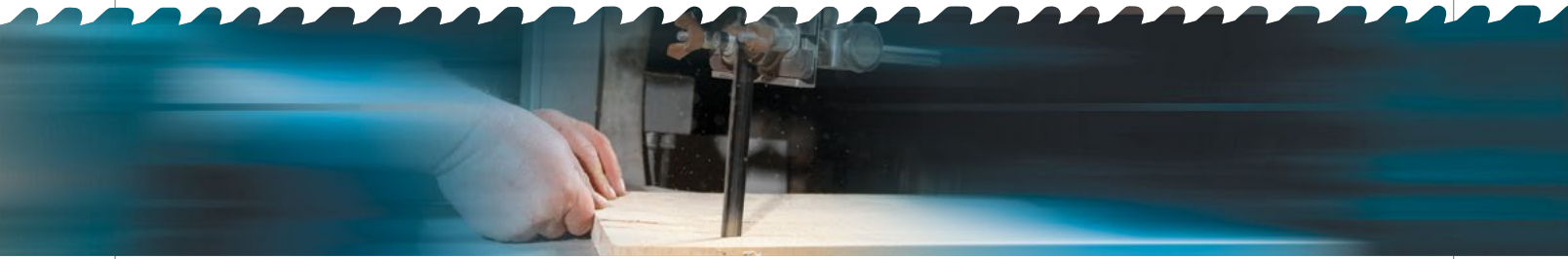
- ▼ Wood
- ▼ Low Alloy Metals

Benefits

- ▼ Straight pitch teeth provide better chip clearance for fast cutting
- ▼ Shock resistant bi-metal teeth efficiently cut low alloy metals
- ▼ Tooth design leaves a clean, weldable finish
- ▼ Heavier .025"/.63mm blades extend blade life when cutting harder materials like stainless steel

Length x Width x Thickness in mm		Teeth							
		3		4		6		8	
		Model	Part	Model	Part	Model	Part	Model	Part
		1/Card		1/Card		1/Card		1/Card	
52 3/4 X 3/4 X .014	1340 X 6.4 X .3					ZCAB06	000178		
56 1/8 X 3/8 X .018	1426 X 3.2 X .5							ZCBA08A	002523
56 3/8 X 3/4 X .014	1426 X 6.4 X .3					ZCBB06	000246		
56 3/8 X 9/8 X .014	1426 X 9.5 X .3					ZCBC06	000673		
57 X 3/8 X .018	1448 X 3.2 X .5							ZCCA08A	002547
57 X 3/4 X .014	1448 X 6.4 X .3					ZCCB06	000314		
57 X 9/8 X .014	1448 X 9.5 X .3					ZCCC06	000352		
59 1/4 X 3/8 X .018	1505 X 3.2 X .5								
59 1/4 X 3/4 X .014	1505 X 6.4 X .3					ZCZB06	000819		
59 1/4 X 9/8 X .014	1505 X 9.5 X .3					ZCZC06	000826		
59 1/2 X 3/8 X .018	1511 X 3.2 X .5								
59 1/2 X 3/4 X .014	1511 X 6.4 X .3					ZCDB06	000406		
59 1/2 X 9/8 X .014	1511 X 9.5 X .3					ZCDC06	000451		
62 X 3/8 X .018	1575 X 3.2 X .5							ZCEA08A	002592
62 X 3/4 X .014	1575 X 6.4 X .3					ZCEB06	000529		
62 X 9/8 X .014	1575 X 9.5 X .3								
64 1/2 X 1/2 X .025	1638 X 12.7 X .6					ZCFD06	000628		
70 X 3/8 X .018	1778 X 3.2 X .5								
70 X 3/4 X .014	1778 X 6.4 X .3					ZCGB06	000697		
70 X 9/8 X .014	1778 X 9.5 X .3					ZCGC06	000703		
71 3/4 X 3/4 X .014	1822 X 6.4 X .3					ZCHB06	000857		
72 7/16 X 3/8 X .025	1840 X 3.2 X .6								
72 7/16 X 3/4 X .025	1840 X 6.4 X .6					ZCIB06	000888		
72 7/16 X 9/8 X .025	1840 X 9.5 X .6			ZCIC04	001076				
72 7/16 X 1 1/2 X .025	1840 X 12.7 X .6	ZCID03	001083						
80 X 3/8 X .018	2032 X 3.2 X .5								
80 X 3/4 X .014	2032 X 6.4 X .3					ZCJB06	000901		
80 X 9/8 X .014	2032 X 9.5 X .3					ZCJC06	000918		
82 X 3/8 X .018	2083 X 3.2 X .5								
82 X 3/4 X .014	2083 X 6.4 X .3					ZCKB06	000949		
82 X 9/8 X .014	2083 X 9.5 X .3					ZCKC06	000956		
93 1/2 X 3/8 X .025	2362 X 3.2 X .6								
93 1/2 X 3/4 X .025	2362 X 6.4 X .6					ZCLB06	000987		
93 1/2 X 9/8 X .025	2362 X 9.5 X .6					ZCLC06	000994		
93 1/2 X 1 1/2 X .025	2362 X 12.7 X .6					ZCLD06	001014		





Length x Width x Thickness		Teeth							
		14		18		24		32	
in	mm	Model	Part	Model	Part	Model	Part	Model	Part
		1/Card		1/Card		1/Card		1/Card	
52 3/4 X 3/4 X .014	1340 X 6.4 X .3	ZCAB14	000185	ZCAB18	000192	ZCAB24	000208		
56 1/8 X 1/8 X .018	1426 X 3.2 X .5	ZCBA14A	002530						
56 1/8 X 1/4 X .014	1426 X 6.4 X .3	ZCBB14	000253	ZCBB18	000260				
56 1/8 X 3/8 X .014	1426 X 9.5 X .3								
57 X 1/8 X .018	1448 X 3.2 X .5	ZCCA14A	002554						
57 X 1/4 X .014	1448 X 6.4 X .3	ZCCB14	000321						
57 X 3/8 X .014	1448 X 9.5 X .3	ZCCC14	000369			ZCCC24	000376		
59 1/4 X 1/8 X .018	1505 X 3.2 X .5	ZCZA14A	002561						
59 1/4 X 1/4 X .014	1505 X 6.4 X .3								
59 1/4 X 3/8 X .014	1505 X 9.5 X .3								
59 1/2 X 1/8 X .018	1511 X 3.2 X .5	ZCDA14A	002585						
59 1/2 X 1/4 X .014	1511 X 6.4 X .3	ZCDB14	000413	ZCDB18	000420	ZCDB24	000437		
59 1/2 X 3/8 X .014	1511 X 9.5 X .3	ZCDC14	000468			ZCDC24	000482		
62 X 1/8 X .018	1575 X 3.2 X .5	ZCEA14A	002608						
62 X 1/4 X .014	1575 X 6.4 X .3	ZCEB14	000536			ZCEB24	000550		
62 X 3/8 X .014	1575 X 9.5 X .3	ZCEC14	000581			ZCEC24	000604		
64 1/2 X 1/2 X .025	1638 X 12.7 X .6	ZCFD14	000635	ZCFD18	000642	ZCFD24	000659	ZCFD32	000666
70 X 1/8 X .018	1778 X 3.2 X .5	ZCGA14A	002615						
70 X 1/4 X .014	1778 X 6.4 X .3								
70 X 3/8 X .014	1778 X 9.5 X .3								
71 3/4 X 1/4 X .014	1822 X 6.4 X .3								
72 7/16 X 1/8 X .025	1840 X 3.2 X .6	ZCIA14	000871						
72 7/16 X 1/4 X .025	1840 X 6.4 X .6								
72 7/16 X 3/8 X .025	1840 X 9.5 X .6								
72 7/16 X 1/2 X .025	1840 X 12.7 X .6								
80 X 1/8 X .018	2032 X 3.2 X .5	ZCJA14A	002639						
80 X 1/4 X .014	2032 X 6.4 X .3								
80 X 3/8 X .014	2032 X 9.5 X .3								
82 X 1/8 X .018	2083 X 3.2 X .5	ZCKA14A	002646						
82 X 1/4 X .014	2083 X 6.4 X .3								
82 X 3/8 X .014	2083 X 9.5 X .3								
93 1/2 X 1/8 X .025	2362 X 3.2 X .6	ZCLA14	000970						
93 1/2 X 1/4 X .025	2362 X 6.4 X .6	ZCLB14	001052						
93 1/2 X 3/8 X .025	2362 X 9.5 X .6	ZCLC14	001069	ZCLC18	001007				
93 1/2 X 1/2 X .025	2362 X 12.7 X .6	ZCLD14	001021	ZCLD18	001038	ZCLD24	001045		





MORSE HAND SAW BLADES

Blade Type Application

Hack Saw Blades

Metal

Bi-Metal - Triple Tooth Designed for increased cutting efficiency in pipe, tubing solids, wood, plastic or machinable metals.

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

Specialty

Carbide Grit & Rod Used to cut glass, hardened steel, stranded cable, tile and other abrasive materials.

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.

HACK SAW BLADES BI-METAL



TRIPLE TOOTH BI-METAL HACK SAW BLADE

Utilize maximum cutting efficiency with three teeth sizes. Lead off with 32tpi, move to 24tpi for more aggressive strokes and complete the stroke with 18tpi. Or isolate the blade to use only one section.

Applications

- ▼ Cut wood
- ▼ Plastic
- ▼ Machinable metal
- ▼ Conduit
- ▼ Stainless steel tubing
- ▼ Angle iron
- ▼ Copper tubing
- ▼ Structural materials



BI-METAL HACK SAW BLADES

Bi-metal hack blades will bend and flex, resisting shattering for safer sawing and longer lasting blades. Use to cut pipe, tubing or any machinable metal.

Features

- ▼ Vacuum heat treating
- ▼ Straight blade body
- ▼ Bi-metal construction

Benefits

- ▼ Harder edge for fast cutting
- ▼ Greater beam strength
- ▼ Long cutting life
- ▼ Heat and wear resistant
- ▼ Flexible to prevent shattering during use

TPI	in			mm			100/Box		100/Tube		10/Tube		2/Card - 5/Pack	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part	Model	Part	Model	Part
Triple Tooth														
18/24/32	12	½	.023	300	12.7	.6	HHB12182432	362139	HHB12182432T100	302340	HHB12182432T10	302333	HHCB12182432	304092
Variable Pitch														
14/18	12	½	.023	300	12.7	.6	HHB121418	362153	HHB121418T100	300148	HHB121418T10	302159	HHCB121418	304061
20/24	12	½	.023	300	12.7	.6	HHB122024	362160	HHB122024T100	300155	HHB122024T10	302166	HHCB122024	304078
26/32	12	½	.023	300	12.7	.6	HHB122632	362177	HHB122632T100	300162	HHB122632T10	302173	HHCB122632	304085
Straight Pitch														
18	10	½	.023	250	12.7	.6	HHB1018	360180			HHB1018T10	300186	HHCB1018	304009
24	10	½	.023	250	12.7	.6	HHB1024	360241			HHB1024T10	300247	HHCB1024	304016
32	10	½	.023	250	12.7	.6	HHB1032	360326			HHB1032T10	300322	HHCB1032	304023
14	12	½	.023	300	12.7	.6	HHB1214	362146	HHB1214T100	300100	HHB1214T10	302142	HHCB1214	304030
18	12	½	.023	300	12.7	.6	HHB1218	362184	HHB1218T100	300117	HHB1218T10	302180	HHCB1218	304047
24	12	½	.023	300	12.7	.6	HHB1224	362245	HHB1224T100	300124	HHB1224T10	302241	HHCB1224	304054
32	12	½	.023	300	12.7	.6	HHB1232	362320	HHB1232T100	300131	HHB1232T10	302326	HHCB1232	304108

Note: 100/Box for Variable and Straight Pitch blades must be ordered by blade in multiples of 100





SPECIALTY GRIT



CARBIDE GRIT HACK SAW BLADES

Used to cut glass, hardened steel, stranded cable, tile and other abrasive materials.

Grit	in			mm			25/Box		3/Tube		1/Card - 5/Pack	
	Length	Width	Thickness	Length	Width	Thickness	Model	Part	Model	Part	Model	Part
Rod 												
Coarse	10	.105	.105	250	2.7	2.7	HRTCG10	362214	HRTCG10T03	362351	HRCTCG10	332217
Coarse	12	.105	.105	300	2.7	2.7	HRTCG12	362221	HRTCG12T03	362368	HRCTCG12	332224
Standard 												
Coarse	10	¾	.029	250	19.1	0.7	HHTCG10	362191	HHTCG10T03	362337	HHCTCG10	332194
Coarse	12	¾	.029	300	19.1	0.7	HHTCG12	362207	HHTCG12T03	362344	HHCTCG12	332200

FRAMES



CONTRACTOR HIGH TENSION

Benefits

- ▼ Exceptionally light for handling ease
- ▼ Aluminum frame offers extra blade storage space

Product	Frame 1/Card			TPI	Blade Included					
	Model	Part			in			mm		
	Model	Part		Length	Width	Thickness	Length	Width	Thickness	
Contractor High Tension	HHBF04	300056		24	12	½	.023	300	12.7	.6



MINI

Product	Frame 1/Card - 5/Pack			TPI	Blade Included					
	Model	Part			in			mm		
	Model	Part		Length	Width	Thickness	Length	Width	Thickness	
Mini	HHBF05	330077		24	10	½	.023	250	12.7	.6

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	Frame 1/Card		TPI	Blade Included					
	Model	Part		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			Replacement Blades		
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

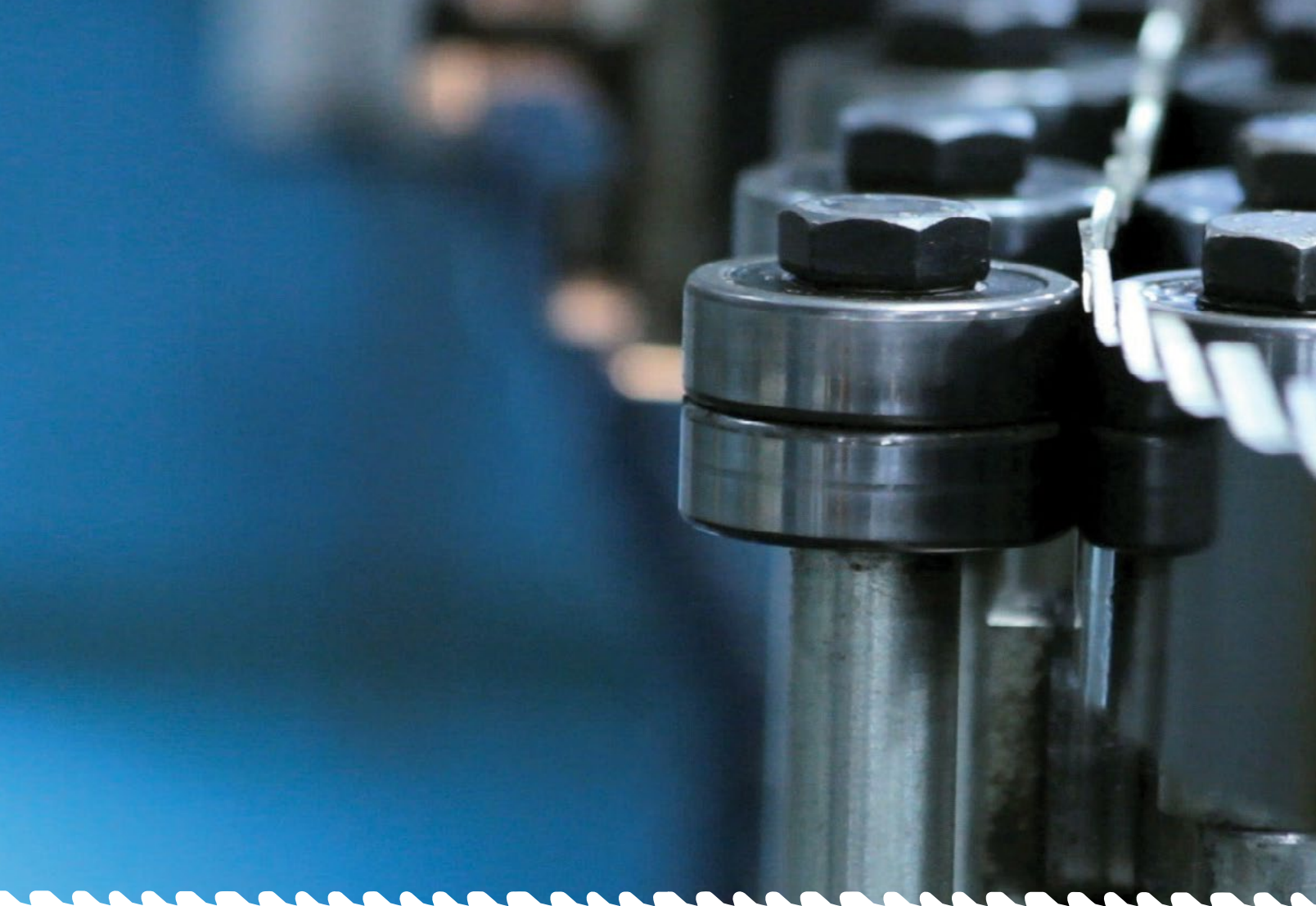
Heavy duty, ergonomic handle to use with either a reciprocating or a hack saw blade. Allows for quick blade changes for various applications.



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

Minimum order Qty: 6



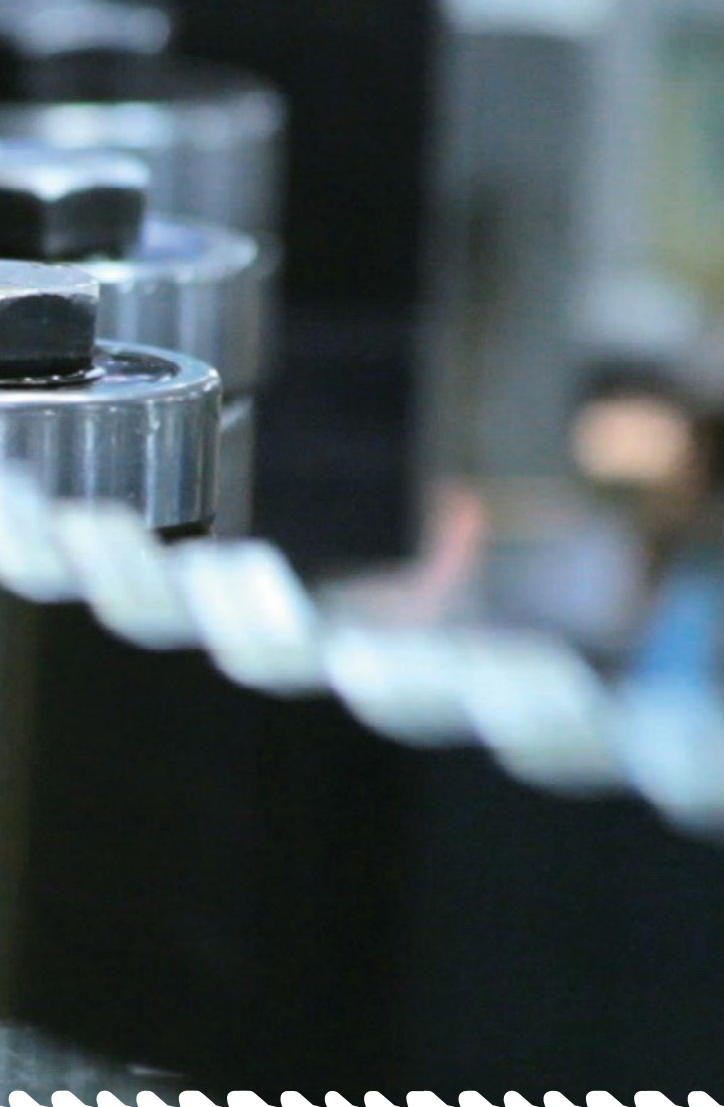


WARNING ABOUT SAW BLADE USAGE

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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Phone: 818-510-0601

(To get to the CA warehouse turn from Balboa Blvd. on to Stagg Street and then enter the parking lot on the left)

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