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# THE M. K. MORSE COMPANY



### WHEN YOU NEED SAW BLADES, YOU NEED MORSE

For more than 50 years, we've been selling, innovating and manufacturing an array of material separation solutions. And while our product's design, workmanship and performance are unparalleled, it's our exceptional service levels that make us your best source for saw blades.

Regardless of machine, material or application, Morse has the right saw blade for the job. Our team of experienced, highly trained field technicians help you get the most performance out of your operator, your equipment, and your saw blade. Whether your primary cost driver is speed or cut quantity, we deliver solutions to fit your saw, your budget, and your business.

Virtually all Morse product is manufactured in Canton, Ohio, USA. And with Morse product sold in more than 70 countries, our global distribution network and weld centers ensure that our customers get the right product, right when they need it.

As a second-generation family-owned business, we take pride in serving customers at the highest levels. We've embraced lean manufacturing, and each of our workers are cross-trained in several departments to help insure consistency, reliability and quality in everything we produce.

All we make are saw blades. And we make them exceptionally well.

### NOT ALL MATERIALS ARE CREATED EQUAL

Our in-house team of material scientists and engineers is the best in the industry. They continually test, improve and refine all facets of our products -- from raw materials and tooth design to proprietary treatments and coatings. Our manufacturing processes continually improve to exceed the rigorous demands of our customers.

We proudly support customers from small machine shops and steel service centers to large defense contractors and government agencies. No task is too big or too small for us to tackle. Best yet, we haven't found a material yet our team can't cut.

### EXPERIENCE THE MORSE DIFFERENCE

In addition to our innovative products and world-class service levels, we've established a unique training curriculum at our factory that further supports and educates our customers on how to optimize their material separation processes. We regularly host people from across the globe at two and a half day, immersive sessions to bring better understanding to the ever-evolving world of saw blade technology.

If you've been an M. K. Morse customer for some time, thank you for your business. And if you're considering us now, we encourage you to take a moment to understand how the right saw blade can make or break your productivity, operational efficiency, and your budget.

Thank you for the opportunity to serve you.

Happy sawing!



### 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.

### **GUARANTEED TRIAL BAND SAW BLADES**

The M. K. Morse Company will provide carbide tipped, bi-metal and carbon weld-to-length 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 carbide tipped, bi-metal and carbon weld-to-length band saw blades for trial and evaluation, the Morse sales representative will provide follow-up.

Morse is confident in the ability of our blades to meet the end users expectations for performance.





# BAND SAW BLADES

# BLADE TYPEAPPLICATIONCarbide Tipped<br/>Band Saw BladesSpecially designed for alloy steel<br/>and stainless steel applications for<br/>exceptional long life.Bi-Metal Band Saw<br/>BladesHighly fatigue resistant to eliminate<br/>premature breakage. Excellent in<br/>solid tool steels and small to medium<br/>stainless and nickel based alloys.Carbide Grit Band<br/>Saw BladesIdeal for cutting ceramics and<br/>other materials that are too hard<br/>or abrasive for standard bi-metal<br/>blades, tungsten carbide grit blades<br/>provide superior wear resistance.Carbide Tipped<br/>Band Saw BladesSpecially designed for fine-finish<br/>wood cutting in applications such<br/>as hardwood flooring, millwork and<br/>musical tonewoods.

Carbon Band Saw Blade as hardwood flooring, millwork and musical tonewoods. Ideal for wood production cutting and short production/maintenance/ general purpose applications using low alloy steel and non-ferrous metals

# 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 Back ...... The body of the blade not including tooth portion
- **2 Gage** ...... The thickness of the blade
- **Width** ...... The tip of tooth to back of blade
- **5 Tooth** ...... The cutting portion of the saw blade
- **5 Tooth Pitch......** The distance from one tooth tip to the next
- **B Gullet**......The curved area between the tooth points
- **9 Gullet Depth**......The distance from the tooth tip to the bottom of the gullet
- 0 **Tooth Face......** The surface of the tooth on which the chip is formed

# **BLADE PART NUMBERS**

The M. K. Morse Company has begun using 10-digit numeric band saw blade part numbers rather than alphanumeric part numbers.

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 <sup>st</sup> and 2 <sup>nd</sup> DIGITS	MATERIAL/TOOTH SET STYLE	3 <sup>rd</sup> and 4 <sup>th</sup> DIGITS	BLADE WIDTH	5 <sup>th</sup> and 6 <sup>th</sup> 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	US HEF Carbon	Hook – Heavy Set	20	.25 X .U2U		2
13	US HEF Carbon	HOOK - DOUDIE SET HAKEP	21		04	3
14	OS HEF Carbon	Skip	30	120 X .020	04	4
16	QS HEF Carbon	Baker Or Variable Pitch	32	25 x 025	08	8
17	QS HEF Carbon	QuikSilver WMF - Hook	33	.375 x .025	10	10
18	QS HEF Carbon	Hook	34	.50 x .025	12	12
19	QS HEF Carbon	Hook ETS	40	.25 x .032	13	10 / 14
20	QS HEF Carbon	Bright	41	.375 x .032	14	14
26	QS HEF Carbon	Hook – Light Set	42	.50 x .032	16	14 / 18
30	Matrix II	Positive Rake	43	.625 x .032	18	18
31	Matrix II	Positive Rake – Heavy Set	44	.75 x .032	22	20 / 24
33	Matrix II	O° Rake - Heavy Set	50	.25 x .035	(23)	2/3
34	Matrix II	Wavy	51	.375 x .035	24	24
36	Matrix II	Haker	52	.5U x .U35	32	32
38	Matrix II	HOOK O <sup>®</sup> Daka	53	.625 X .035	34	3/4
39		U Rake Positivo Pako	55	1 × 035	40	4/0
/11	The Morse Achiever	10° Positive Rake	56	1 25 v 035	58	5/8
42	M42	O° Bake	57	2 x 035	68	6 / 10
43	The Morse Achiever	O° Bake	60	1 x .042	80	8 / 11
44	M42	Wavy	61	1.25 x .042	81	8 / 12
45	M42	Straight Pitch – Heavy Set	62	2 x .042	91	.75 / 1.1
46	M42	Raker	70	1.25 x .045	92	1.4 / 2.5
47	The Morse Achiever	Variable – 6° Positive Rake	71	1.5 x .045	93	1.3
48	M42	Hook	80	.75 x .050	94	1.14
49	The Morse Achiever	Heavy Set	81	1.5 x .050	95	1.15
51	Independence II	Heavy Set	82	2 x .050	96	1.1 / 1.5
55	Independence II	Variable Pitch	22	2 x .063	97	1 / 1.5
5/	Independence EXS	Variable Pitch	91	2.625 X .063	98	1.5 / 2
6U 61	QS Hard Back Carbon	Hook Haker - Special Extra Heavy Set	92	3 X .003		
63	OS Hard Back Carbon	Hook - Double Set Baker				
64	QS Hard Back Carbon	Wavy				
65	QS Hard Back Carbon	Skin				
66	QS Hard Back Carbon	Raker Or Variable Pitch				
67	QS Hard Back Carbon	QuikSilver WMH - Hook			7 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> DIGITS	BLADE LENGTH
68	QS Hard Back Carbon	Hook			Number of foot multiplic	d hu 40 nius
70	Tun. Carbide Grit - Continuous	Medium			additional inches (Uples	a by <b>12</b> plus
71	Tun. Carbide Grit - Continuous	Medium Coarse			Coil Length (in feet) + C	
72	Tun. Carbide Grit - Continuous 🚿	Coarse		/	LENGTH coil - use 000	
73	Tun. Carbide Grit - Gulleted	Medium				
74	Iun. Carbide Grit - Gulleted	Medium Coarse			10 <sup>th</sup> DIGIT	FRACTION OF INCH/
/5	Iun. Carbide Grit - Gulleted	Loarse			Dent # Jack Longth	IVILLIVIETER
80 81	M Factor By Morse - Carbide Tipped	Care Hardened			Part # Inch Length	Part # IVIIVI Leriguri
82	M-Factor By Morse - Carbide Tipped	General Purnose			1 1/8″	1 3
83	M-Factor By Morse - Carbide Tipped	Exotic			2 1/4"	2 6.4
91	Challenger	Positive Rake			3 3/8″	3 9.5
92	Challenger	Heavy Set			4 1/2″	4 12.7
GA	M-Factor By Morse - Carbide Tipped	Wood Production			5 5/8″	5 16
					6 3/4"	6 19
EX	AMPLE 1 PREVIOUS PART #2	WEN635C23HPII				/ 22
Therefo	re: Independence II 2 625 x 06'	3 2/3 100' Coil		-	C Coll Stock	C Coll Stock
le chow	n ee: 51 91	23 100C	(91)(51)(	22 100c Y		
NEW P	ART #519123100C	E3 1000			7 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> DIGITS	METRIC BAND LENGTH
EX	AMPLE 2 PREVIOUS PART #	ZWEFHO2M42HS			Number of millimeters m	ultiplied by .03937
There	MAD Obseitste Dited 11		(O"Een 4 (O" -L- 4 (O"	thun 1	equals total number of in	ches. (Unless using
Inereto	re: IVI42 Straight Pitch Hea	vy Set 3/4 x .035 2 35' 8-1	/2 For 1/2" aka 4/8",	tnus 4	Coil Stock. Coil Length (i	n feet) + C) If a
is show	11 as: 45	<b>34 U2 428</b> (35 x 12 s	<b>4</b> 420)		HANDOM LENGTH coil -	use OOOR.
NEW P	AKI # 4554U24284	(420 + 8	= 428j			

# TOOTH SET SPECIFICATIONS



# **BLADE OPTIMIZATION**

### **BLADE BREAK-IN: EXTREMELY IMPORTANT**

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.

### **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 to 100 square inches of material cut.
- Gradually increase feed pressure or feed rate after break-in to target pressure or rate.

### MORSE BI-METAL BAND SAW BLADE APPLICATION OVERVIEW

SELECTION BASED UPON TARGET APPLICATION

$\sim$	$\gamma \gamma \gamma$	$\nu \nu \nu$			u  u  u																
	CARBO	DN STRU LS ST	ICTURAL TEELS L	Aluminum & T. Alloy Steel	ALLOY STE MOLD STE	ELS T	OOL EELS	STAINLES STEELS	SS N	ICKEL BASE ALLOYS	TITA	NIUM OYS									
AISI	1010, 1 104	020, 5 <sup>4</sup>	A36	6061, 2011 2024, 5052	4140, Pa	20 A2, H M-SEF	113, S7 RIES, D2	316, 30 17-4 PH, 15	4 INC -5 PH \	ONEL, MONE NASPALLOY	L, T1-6	AI-4V									
JIS	S2OC, S	4SC		6061, 2011, 2024, 5052	SCM 440 SCM 445	(H), SHD11 i(H) SKD67	I, SHD12, 1, SKS41	SUS316 SUS304	, F	NCuP-0	H40 H4	600									
DIN	Ск45, С	16.8		AICuPs, AICuMc2, AIMcMNO.3	41CrMo	4 X1550 (G)X40	CaVMoV51 DCaMoV51	X5CRNIM018 X5CRNi18	10, I 10 NiC	NiCri 19NBMo, ri 19Co 14Mo4T	I,										
MATRIX II																					
			M4	2																	
				THE	MORSE A	ACHIEVER	0														
		CHALL	<b>ENGER</b> °				IND	EPENDE		0											
									NDEPE	NDENC	E EXS®										
MORSE CARBIDE TIPPED BAND SAW BLADE APPLICATIONS SELECTION BASED UPON TARGET APPLICATION																					
	CARBON STEELS	ALUMINUM & LT. ALLOY STEELS	ALLOY STEELS MOLD STEELS	TOOL STEELS	STAINLESS STEELS	NICKEL BASE ALLOYS	TITANIUM ALLOYS	CASE HARDENED	ALUMINUM CASTINGS	ABRASIVE WOODS	COMPOSITES	GRAPHITE									
AISI	1010, 1020, 1045	6061, 2011 2024, 5052	4140, P20	A2, H13, S7 M-SERIES	316, 304 17-4 PH, 15-5 PH	INCONEL, MONEL, WASPALLOY	T1-6AI-4V														
JIS	S2OC, S4SC	6061, 2011, 2024, 5052	SCM 440(H), SCM 445(H)	SHD11, SHD12, SKD61, SKS41	SUS316, SUS304	NCuP-0	H4650, H4600														
DIN	Ск45, С16.8	AICuP8, AICuM62, AIM6MNO.3	41CRM04	X155CeVMeV51 (G)X40CeMeV51	X5C=NIM=18 10, X5C=NI18 10	NIC#19NBM0, NIC#19C014M04T1,															
		N	/I-FACTO	r by Mo	RSE <sup>®</sup> – GI			M-FACTOR	M-F	ACTOR	– FB/F	BS									
					M-FA	CTOR – G	ES	CH													
	R.4									PATIC											
	IVI	UKSE (	SELEC	TION RA	SED LIP	IN TAR	GET AF	NDE A		JAHU	6VIN										
$\sim$	$\sim$	m									$\sim$										
CA HARDI	ST IRON ENED STEEL	CERAMICS FOAMED GLA	S ASS FIBI	RGLASS	CABLE WIRE ROPE	CEMEN CONCRE	TE REII	TIRES & WIRE	BER G	RAPHITE	COMP	DSITES									
					CARB	IDE GRI	Т														

# SPARC TECHNOLOGY



Sparc<sup>®</sup> 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 patent pending 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

# ADVANTAGES TO USERS

### Up to 40% FASTER CUTTING

Sparc<sup>®</sup> 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 "insquare" cutting.

## THE BEST MORSE BLADES USED WITH MORSE SPARC

- ▼ M-Factor by Morse<sup>®</sup> CT
- ▼ The Morse Achiever®
- ▼ Independence<sup>®</sup> II
- ▼ Independence® EXS
- ▼ M42



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

This arching motion is the same as adjusting the angle

of a handheld hacksaw that is alternately angled up and

rocking motion on the cutting edge of the saw.

down to produce a quicker cutting action.

Exaggerated to illustrate blade feature and cutting action.





# CARBIDE TIPPED SAW BLADES

### M-FACTOR BY MORSE® GP (GENERAL PURPOSE) × Specially designed for alloy steel and stainless steel applications for exceptional long life. GP **APPLICATIONS** USERS VCT OR Alloy steels ▼ Steel service centers ▼ Stainless steels ▼ Forging operations ▼ General manufacturing (lower grades) × WIDTH X THICKNESS TEETH PER INCH INCHES ММ .75/1 1.5/2 2/3 3/4 1 x .035 27 x 0.90 ▼ ▼ 1¼ x .042 34 x 1.07 ▼ ▼ ▼ ▼ 1 ½ x .050 41 x 1.30 ▼ ▼ T 2 x .063 54 x 1.60 ▼ V V 2 <sup>5</sup>/<sub>8</sub> x .063 67 x 1.60 ▼ 3 x .063 80 x 1.60 ▼ ▼ **M-FACTOR BY MORSE® CH (CASE HARDENED)** X Designed for long life and fast, smooth cutting of chrome plated, case hardened hydraulic shaft specifications. H **APPLICATIONS** USERS ACTOR ▼ Hydraulic shafts ▼ Steel service centers ▼ Case hardened shafts and shapes ▼ Automotive parts makers ▼ Heat treated thick wall tubing ▼ Cylinder manufacturers

Bearing manufacturers

WIDTH X T	HICKNESS		TEETH PER INCH						
INCHES	MM	1.5/2	2/3	3	3/4				
nn	m	m	m	m	m				
1 x .035	27 x 0.90			•	•				
1 ¼ x .042	34 x 1.07			▼	▼				
1 ½ x .050	41 x 1.30	▼	▼		▼				
2 x .063	54 x 1.60		▼						
		-							





### M-FACTOR BY MORSE® FB+ AND FBS (FOUNDRY BAND)

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

APPLICATIONS

K

B

Aluminum castings: gates, risers, extrusions
 Abrasive woods plywood

### USERS

- Aluminum foundries
- ▼ Graphite manufacturers
- ▼ Furniture makers

WIDTH X T	HICKNESS	TEETH PER INCH					
INCHES	MM	3	3 SET				
$\sim$	$\sim$	mm	m				
½ x .025	12.7 x 0.60	▼					
³∕4 x .O35	19 x 0.90	▼	▼				
1 x .035	27 x 0.90	▼	▼				
1 ¼ x .042	34 x 1.07	•	•				



# **BI-METAL SAW BLADES**



### INDEPENDENCE EXS<sup>®</sup> HIGH PRODUCTION BI-METAL BLADES

Longer lasting than competitive blades and more wear resistant than The Morse Achiever®, and M42, these blades are the best choice for cutting exotics, stainless steels and large solids.

### **APPLICATIONS**

- ▼ High production cutting
- ▼ Large solids
- Stainless steels
- Exotics

Independence EXS

### **BLADE FEATURES**

- ▼ Special high speed steel tooth edges
- ▼ High fatigue steel backer
- ▼ Unique tooth geometry
- ▼ Superior wear, heat and shock resistance
- ▼ Fewer blade changes in a wide range of materials equals less downtime

WIDTH X T	HICKNESS		TEETH P	ER INCH		
INCHES	MM	1/1.5	1.5/2	2/3	3/4	4/6
nnn	$\sim$	m	v	nn	vvv	m
1 x .035	27 x 0.90			•	•	▼
1¼ x .042	34 x 1.07			•	•	•
1½ x .050	41 x 1.30	•	•	•	•	
2 x .063	54 x 1.60	▼	•	•	•	



Independence EX



### **INDEPENDENCE II® HIGH PRODUCTION BI-METAL BLADES**

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

### **APPLICATIONS**

Independence II

- 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 machinable metals in single pieces ▼ or bundles

### **BLADE FEATURES**

- Special high speed steel tooth edges ▼
- High fatigue steel backer ▼
- Unique tooth geometry ▼
- ▼
- Superior wear, heat and shock resistance Fewer blade changes in a wide range of ▼ materials equals less downtime

WIDTH X T	HICKNESS		TEETH PER INCH						
INCHES	MM	2/3	3/4	4/6	5/7				
$\sim$	$\sim$	m	$\sim$	$\sim$	mm				
1 x .035	27 x 0.90	▼	▼	▼	▼				
1¼ x .042	34 x 1.07	▼	▼	▼	▼				
1 ½ x .050	41 x 1.27	▼	▼	▼	▼				
2 x .063	54 x 1.60	▼	▼	▼	▼				







# **BI-METAL SAW BLADES**



					Variab	le Pitch	- Positiv	e Rake			
1 x .035	27 x .90					▼	••	••	▼		
1¼ x .042	34 x 1.07				▼	▼	••	▼ ▼	▼		
1½ x .050	41 x 1.27				▼	••	<b>• •</b> •	<b>• •</b> •			
2 x .063	54 x 1.60				▼	▼	▼				
2 ⁵⁄≋ x .063	67 x 1.60	▼	▼	•		▼	▼				
3 x .063	80 x 1.60	▼	▼	▼							
			<b>–</b>	<b>D</b> 1							



Available in 6° Positive Rake







### **CHALLENGER® BI-METAL STRUCTURAL BLADES**

Long life and straight cuts in structural material cutting applications while reducing noise and vibration.

### APPLICATIONS

- Specially designed for structural applications ▼
- Bundle cuts ▼
- ▼ Interrupted cuts ▼
  - l-beams
- Low alloy steels ▼ Carbon steels ▼
  - A36

### **BLADE FEATURES**

- Special tooth profile for cutting structural materials ▼
- Increased beam strength ▼
- ▼ Less noise and vibration
- Less tooth strippage ▼

TEETH PER INCH

- Longer life in interrupted cuts ▼
- Straighter interrupted and bundle cuts

WIDTH X THICKNESS
-------------------

		2/3	3/4	4/6	5/7	8/11
½ x .025	12.7 x .64					▼
³∕4 x .035	19 x .90				▼	•
1 x .035	27 x .90		•	•	•	•
1¼ x .042	34 x 1.1	••	▼ ▼	▼ ▼	▼	•
1½ x .050	41 x 1.3	▼ ▼	▼ ▼	▼ ▼	▼	•
2 x .063	54 x 1.6	▼ ▼	▼ ▼	▼ ▼		
2 ⁵⁄8 x .063	67 x 1.6	▼ ▼	▼ ▼	▼ ▼		

Heavy Set



# **BI-METAL SAW BLADES**



### **M42 BI-METAL BLADES**

Durability for higher production speeds on difficult to machine solids and heavy walled structures

### APPLICATIONS

- ▼ Solids
- ▼ Heavy walled structures
- ▼ Carbon steels
- ▼ Alloy steels
- ▼ Some stainless steels
- ▼ Medium to heavy
  - production machines

### **BLADE FEATURES**

- ▼ Durability for higher production cutting
- ▼ Variable and straight pitch teeth
- ▼ Heat and wear resistance

VARIABLE PITCH - POSITIVE RAKE												
WIDTH X T	HICKNESS		TEETH F									
INCHES	MM	1.4/2.5	2/3	3/4	4/6	5/7	8/11					
pm	$\sim$	m	$\gamma\gamma\gamma$	$\mathcal{V}\mathcal{V}\mathcal{V}$	VVVL							
½ x .025	12.7 x .64						▼					
<sup>3</sup> ⁄4 x .035	19 x .90				•	▼						
1 x .035	27 x .90		▼	▼ ▼	▼ ▼	▼						
1¼ x .042	34 x 1.07		▼	▼ ▼	▼ ▼	▼						
1½ x .050	41 x 1.27	•	▼	▼ ▼	▼ ▼							
2 x .050	54 x 1.27			▼								
2 x .063	54 x 1.6		▼	▼								

▼ Available with 6° rake angle

VARIABLE PITCH - 0° RAKE												
WIDTH X TH	ICKNESS		TEETH PER INCH									
INCHES	MM	2/3	3/4	4/6	5/8	6/10	8/12	10/14				
	$\nu \nu \nu \nu$	$\nabla \nabla \nabla$	$\nu \nu \nu$	u  u  u	$\nabla \nabla \nabla$	$\nabla \nabla \nabla$	$\nabla \nabla \nabla$	$\nabla \nabla \nabla$				
1⁄4 x .025	6.4 x .64							▼				
1⁄4 x .035	6.4 x .90							▼				
³∕≋ x .035	9.5 x .90							▼				
½ x .025	12.7 x .64						▼					
½ x .035	12.7 x .90							▼				
<sup>3</sup> ⁄4 x .035	19 x .90			•	▼	•	▼	▼				
1 x .035	27 x .90	▼	▼	▼	▼	▼	▼	▼				
1¼ x .042	34 x 1.07	▼	▼		▼		▼					
1½ x .050	41 x 1.27	▼	•	•								

### **STRAIGHT PITCH** WIDTH X THICKNESS **TEETH PER INCH** INCHES 8 10 14 10 1 1.14 ММ 4 6 2 6 3 Raker Wavy Hook 1⁄4 x .025 6.4 x .64 ▼ ▼ 1⁄4 x .035 6.4 x .90 ▼ ▼ ³∕8 x .035 9.5 x .90 V V ½ x .025 12.7 x .64 V 12.7 x .90 ½ x .035 ▼ V V V 1 x .035 27 x .90 ▼ ▼ ▼ ▼ V V 1¼ x .042 34 x 1.07 ▼ T ▼ 2 x .050 54 x 1.27 ▼ 2 x .063 54 x 1.60 ▼

Straight Pitch teeth are most often used when the cross sectional size range is consistent.

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MAD M42 BI-METAL DIE BAND BLADES Designed for cutting solids with very low machinability including the toughest machinable materials. Production cutting with fewer blade changes for tool and die shops. × **APPLICATIONS BLADE FEATURES** Tool and die shops ▼ Low cost-per-cut ▼ Die blocks ▼ High heat and wear resistance Tool steels ▼ Wide selection of blade type and tooth sizes ▼ "D" grade steels ▼ Available in either straight pitch or variable pitch teeth ▼ "Super" alloys ▼ M42 die bands offer high wear and heat resistance and ▼ Inconel are best suited for cutting difficult-to-machine tool steel ▼ ▼ Waspalloy and die blocks Hastelloy ▼ Tough materials Typically used on vertical machines

WIDTH X TH	IICKNESS		TEETH PER INCH							
INCHES	MM	10	14	4	6	8/11	8/12	10/14		
nn	nn	$\mathcal{M}$	m	m	m	$\mathcal{M}$	$\sim$	m		
		Ra	ker	Ho	ok		Variable			
1⁄4 x .025	6.4 x .64		•		▼			▼		
1⁄4 x .035	6.4 x .90	▼	▼					▼		
³∕≋ x .035	9.5 x .90	▼		▼				▼		
½ x .025	12.7 x .64				▼	•	▼			
½ x .035	12.7 x .90	▼	▼	▼	▼	•		▼		

# **BI-METAL SAW BLADES**



### STRAIGHT PITCH

WIDTH X T	HICKNESS		TEETH PER INCH										
INCHES	MM	6	8	10	14	18	24	14	18	24	1.14	3	4
pm		$\sim$	$\sim$	$\sim$	$\sim$			$\sim$	$\sim$	$\sim$			$\sim$
				Ra	ker				Wavy			Hook	
³∕≋ x .025	9.5 x .64		▼	•	▼								▼
½ x .020	12.7 x .50			•	▼	▼	▼	•	▼	▼			
½ x .025	12.7 x .64	•		•	▼	▼						•	▼
<sup>3</sup> ⁄4 x .035	19 x .90	▼	▼	•	▼							▼	
1 x .035	27 x .90	•	▼	•	▼							•	
1¼ x .042	34 x 1.07	▼									▼		

Straight Pitch teeth are most often used when the cross sectional size range is consistent.



$\sim$	vnnnnnnn													
				Raker			Hook Variable							
³∕≋ x .025	9.5 x .64		▼	▼	▼			•			•			
½ x .025	12.7 x .64	•		•	•	•	▼	▼	▼	▼	•	▼	▼	
½ x .035	12.7 x .90								▼		▼			
			-				-							

# **CARBIDE GRIT SAW BLADES**



### TUNGSTEN CARBIDE GRIT BAND SAW BLADES

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.

AF	PL	ICA	TIC	DN	5

- ▼ Fiberglass
- ▼ Ceramics
- ▼ Cast iron
- ▼ Graphite
- ▼ Tires and wire reinforced rubber
- Cable and wire rope
   Brittle materials or surfaces that chip

### BLADE FEATURES

- ▼ Very smooth finish
- ▼ Reversible to extend service life
- ▼ Available in continuous and gulleted cutting edges
- ▼ Continuous grit for brittle materials, or materials thinner than 1/4″ (6.4mm) with surfaces that chip
- ▼ Gulleted grit for 1/4" and larger wall thickness
- ▼ Available in medium to coarse grit
- ▼ Medium grit for thin materials or fine finishes
- ▼ Coarse grit for cutting thick materials

### **CARBIDE GRIT (CONTINUOUS)**

WIDTH X TH	IICKNESS	GRIT SIZE						
INCHES	MM	MEDIUM	COARSE					
$\gamma \gamma \gamma \gamma$	$\sim$	nn	$\gamma\gamma\gamma$					
1⁄4 x .020	6.4 x 50	▼						
½ x .025	12.7 x .64	▼						
1 x .035	27 x .90	▼	▼					



	CARBIDE	GRIT (GULLE	TED)	
WIDTH X T	HICKNESS		<b>GRIT SIZE</b>	
INCHES	MM	Medium	Medium Coarse	Coarse
$\gamma\gamma\gamma\gamma$	m	n	$\sim$	nn
³∕≋ x .025	9.5 x .64	▼	▼	
½ x .025	12.7 x .64	•	▼	
3⁄4 x .032	19 x .80		▼	•
1 x .035	27 x .90		▼	•
1¼ x .042	34 x 1.07			•



# **QUIKSILVER CARBIDE TIPPED BLADES**





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# **QUIKSILVER BI-METAL BLADES**



WIDTH X T	HICKNESS	TEETH PER INCH											
INCHES	MM	.75/1	1.4/2.5	5/8	6/10	6	1	1.14	1.3	2	3	4	6
pm	nn	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\mathcal{N}$		$\sim$	$\sim$			$\mathcal{N}$
			Var	iable		Raker				Hook			
QuikSilver B1 I	Production / W	lood Mil	I										
1⁄4 x .025	6.4 x .64												▼
³∕≋ x .025	9.5 x .64											▼	
½ x .025	12.7 x .64					•					▼	▼	
½ x .035	12.7 x .64											▼	
³∕4 x .035	19 x .90					•					▼		
1 x .035	27 x .90					▼					▼		
1¼ x .042	34 x 1.07			▼	▼	▼		<b>•</b>					
1½ x .050	41 x 1.27			▼									
QuikSilver B2	Production / W	lood Mil											
1 x .035	27 x .90								▼	▼			
1¼ x .035	34 x .90										▼		
1¼ x .042	34 x 1.07							▼					
1½ x .05	41 x 1.27		▼										
2 x .050	54 x 1.27						▼						
2 x .050	54 x 1.27	▼											
1 x .035 11/4 x .035 11/4 x .042 11/2 x .05 2 x .050 2 x .050	34 x .90 34 x 1.07 41 x 1.27 54 x 1.27 54 x 1.27	▼	<b>•</b>					▼			▼ 		

▼ Heavy Set ▼ 1.14 Hook = 7/8 Tooth Spacing

# **QUIKSILVER CARBON BLADES**



# **QUIKSILVER CARBON BLADES**





# **QUIKSILVER CARBON BLADES**

	QUIKSIYER® HEF m st							<b>QUIKSILVER® (HEF) FLEXBACK BLADES</b> Ideal for wood production cutting and short production/ maintenance/general purpose applications using low alloy steel and non-ferrous metals														
	APPLICAT	ION	IS							В	LAC	DE F	EAT	'URI	ES							
	<ul> <li>VVood</li> <li>Plastic</li> <li>Cork</li> <li>Composition board</li> <li>Plywood</li> <li>Aluminum</li> <li>Non-ferrous metals</li> <li>Low alloy steel</li> </ul>									<ul> <li>Manufactured from a single piece of high carbon steel with individually hardened tooth tips</li> <li>More fatigue resistant than carbon hard back</li> <li>Low cost-per-blade/low cost-per-cut in wood</li> <li>Low cost-per-blade/higher cost-per-cut in tougher materials</li> <li>Can be run at speeds up to 15,000 sfm</li> </ul>								n				
<b>WIDTH X THIC</b>	KNESS										TEE	TH P	ER II	ICH								
INCHES	MM	4	6	8	10	14	18	24	14	18	24	32	1	1.14	1.3	2	3	4	6	3	4	6
			/ 2	/ ]			2	/ 2							V		V			$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$
	<b>a a i</b>				Rake	r				Wa	avy					Hook					Skip	
1∕8 x .025	3 x .64																					
<sup>3</sup> /16 x .025	4.8 x .64																					
<sup>1</sup> ⁄ <sub>4</sub> x .014	6.4 x .30										▼											
1/4 x .020	6.4 x .50																					
<sup>1</sup> / <sub>4</sub> x .025	6.4 x .64					-																-
<sup>3</sup> /8 x .014	9.5 x .30																	_				
³∕8 x .025	9.5 x .64																					
³∕8 x .032	9.5 x .80																					
½ x .020	12.7 x .50																					
½ x .025	12.7 x .64																					
5∕8 x .032	16 x .80																		▼			
<sup>3</sup> ⁄4 x .032	19 x .80																					
34 x .050	19 x 1.30																					
1 x .035	27 x .90		▼	▼																		
1 x .035 *Bright	27 x .90														▼							
1 x .042	27 x 1.07																					
1¼ x .035	32 x .90													▼	▼							
1¼ x .042	32 x 1.07													▼								
1¼ x .042 *Bright	32 x 1.07													▼	▼							
1½x.045	38 x 1.14													▼								
2 x .035	51 x .90													▼	▼							
2 x .042	51 x 1.07												▼	▼								

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▼ Standard Set ▼ Heavy Set ▼ Double Set Raker \* "Bright" specifications have an unblued, silver surface finish.





▼ Standard Set ▼ ETS Set ▼ Heavy Set

### MINIMUM RADIUS CUT FOR A GIVEN BLADE WIDTH

Blade Width	Minimum Radius	Materials Thickness 1″/25
1"/25mm	7-1/4"/184mm	•
<sup>3</sup> ⁄4"/19mm	5-7/16"/138mm	,
⁵⁄8"/16mm	3-3/4"/95mm	
½"∕13mm	2-1/2"/63mm	
⁵⁄8"/10mm	1-1/4"/32mm	
1⁄4"/6mm	5/8"/16mm	$\sim$
<sup>3</sup> /16"/5mm	3/8"/10mm	$\sim$
¹⁄ଃ"∕3mm	7/32"/5.5mm	

▼ D-Double Set Raker

# FEED RATE MONITOR





### FEED RATE MONITOR FEATURES

Provides real time, accurate feed rate of the band saw blade through the material being cut. Shows irregular or erratic machine feed which can indicate mechanical / hydraulic problems with the machine.

Model: FEEDRATEMONITOR Part number: 005012

### BENEFITS

- ▼ Optimal blade operation to produce:
- ▼ Increased production rate ▼ Maximize blade life
- ▼ Assist in machine problem diagnosis

### **FEATURES**

- ▼ Compact design
- Professionally calibrated Internal magnets for ease of attachment to machine head
- Displays accurate machine feed rates on LCD display
- ▼ Feed Rate shown in both inches / minute and millimeters / minute
- Heavy duty protective storage case fitted to secure monitor V
- ▼ AC or battery operation
- ▼ Made in U.S.A.



# BAND SAW TENSION GAUGE



# **BAND SAW TOOTH PITCHES**

Variable Pitch	
<ul> <li>Varying gullet depth</li> <li>✓ O° Rake angle</li> <li>✓ Variable tooth spacing</li> </ul>	
ADVANTAGES ▼ Excellent chip carrying capacity ▼ Reduces harmonic vibration	BENEFITS ▼ Improves blade life ▼ Reduces noise ▼ Cuts smoother and more efficiently
Variable Pitch Positive Rake	
<ul> <li>✓ Varying gullet depth</li> <li>✓ Variable tooth spacing</li> <li>✓ Positive rake angle</li> </ul>	
<ul> <li>ADVANTAGES</li> <li>▼ Better chip formation</li> <li>▼ Excellent chip carrying capacity</li> <li>▼ Reduces harmonic vibration</li> <li>▼ More aggressive cutting</li> </ul>	<ul> <li>BENEFITS</li> <li>▼ Cuts smoother, cuts faster</li> <li>▼ Wide range of applications</li> <li>▼ Reduces noise</li> <li>▼ Easier chip generation</li> </ul>
Standard Raker	
<ul> <li>▼ Equally spaced teeth</li> <li>▼ O° Rake angle</li> </ul>	
<b>ADVANTAGES</b> ▼ Excellent chip carrying capacity	BENEFITS ▼ General purpose
Skip	
<ul> <li>▼ O° Rake angle</li> <li>▼ Equally spaced teeth</li> </ul>	
ADVANTAGES ▼ Excellent chip carrying capacity ▼ Provide coarse pitch on narrow bands ▼ Flat gullets	<ul> <li>BENEFITS</li> <li>▼ Excellent cutting for non-metallic and non-ferrous applications, (wood, plastic, brass, copper, bronze and aluminum)</li> <li>▼ Help break "stringy" chips</li> </ul>
Hook	
<ul> <li>▼ Wide rounded gullets</li> <li>▼ Equally spaced teeth</li> <li>▼ Positive rake angle</li> </ul>	
<ul> <li>ADVANTAGES</li> <li>▼ Excellent chip carrying in non-metallic applications</li> <li>▼ Positive rake provides better tip penetration with less feed pressure</li> </ul>	<ul> <li>BENEFITS</li> <li>▼ Good cutting performance in discontinuous chip forming materials</li> <li>▼ Fast cutting with good surface finish</li> </ul>

# **TOOTH SELECTION GUIDE**

Band saw tooth size (Teeth Per Inch) is determined by the size and type of material to be cut and the desired finish. To select T.P.I. using this chart, find the colored chart for the type of material you wish to cut. Move up to the correct material size next to the chart. Follow across to the chart for the appropriate T.P.I. for your blade.

Material Size (Inches)	Teeth Per Inch			Material Size (Metric)	Wall Thickness (Inches)	Teeth Per Inch	Wall Thickness (Metric)
0 -		]			1/16 -	10/14	- 1.8
.1 —	14/18	-	14/18	2.5	1/8 -		- 3.2
.2 —	10/14	1-		5.1		8/12	
.3 —		1	10/14	7.6	3/16 -	0 /4 0	- 4.8
.4 —	8/12	-		10.2	1/4 -	6/10	- 6 3
.5 —		-	8/12	- 12.7	17 -		0.0
.6 —	6/10	-		<sup></sup> 15.0	5/16 -	5/8	- 7.9
.7 —		-	6/10	<sup>—</sup> 17.8	<b>A</b> (A		
.8 —	5/8	-		- 20.0	3/8 -		- 9.5
.9 —		-	5/8	- 22.9	7/16 -		- 11.0
1 —		-	0,0	- 25.4			
1-1/4 —		-		- 31.8	1/2 -		- 12.7
1-1/2 —	4/6	-		- 38.1	9/16 -	4/6	- 14.3
1-3/4 —		-		- 44.5	2, 12	., -	
2 —		-	4/6	- 50.8	5/8 -		- 15.8
2-1/4 —		-		- 57.2	44 (45		47 5
2-1/2 —		-		- 63.5	11/16 -		- 17.5
2-3/4 —		-		- 69.9	3/4 -		- 19.0
з —	3/4	-		- 76.2			
3-1/4 —		-		- 82.6	13/16 -		- 20.6
3-1/2 —		-	3/4	- 88.9	7/8 -		- 55 0
3-3/4 —		-		- 95.3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		22.0
4 —		-		- 101.6	15/16 -	3/4	- 23.8
5 —		-		- 127.0	4	· · ·	05.4
6 —	2/3	—		- 152.4	1 –		- 25.4
7 —		—	2/3	- 177.8	1-1/8 –		- 28.6
8 —		—		- 203.0			
9 —		—		- 228.6	1-1/4 –		- 32.0
10 —	1.4/2.5	—	1.4/2.5	- 254.0	1-3/8 –		- 35.0
15 —	1 /A E	—	1/1 5	- 381.0	, -	2/3	
30 — I	1/1.5	_	1/1.5	<b>J</b> _ 762	1-1/2 -		- 38.0
Re	ectangular So (Use Width)	lids:	Round Solids (Use Diamete	5: er)	( Pip (U	e Tubing Stru Ise Wall Thick	cturals ness)

**CUTTING SPEED** 

Structurals Rule Of Thumb: When cutting structurals use a cutting speed of 250-325 S.F.M. (wet) 200-250 S.F.M. (dry)

# **BLADE SPEED/REMOVAL RATES**

For use with Bi-Metal Blades\*

Stock Dimensions Tooth Pitch	Up t 5/7, 5/8,	o 2" 4/6, 3/4	From 2" - 4" 4/6, 3/4		From 4" - 6" 3/4, 2/3		From 6 1.4/2.5	6" - 10" 5, 1.5/2	From 1 1.4/2.5	0" - 12" 5, 1.5/2	From 12" 1.0/1.5, 1.1/1	" - 16" I.5, .75/1.0	From 16" - 2 1.0/1.5, 1.1/1.5,	20" , .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 C (SFPM)	Cutting Rate (SIPM)	Blade Speed Cuti (SFPM) (	ting Rate (SIPM)
Aluminum Alloys: 2024 - 5052 6061 - 7075	300	10 - 15	300	10 - 15	300	10 - 15	300	10 - 15	300	10 - 15	300 1	10 - 15	300 10	- 15
CDA 220 CDA 360	250 325	8 - 12 11 - 15	230 300	7 - 11 10 - 15	220 290	7 - 11 10 - 15	210 275	6 - 10 8 - 12	200 250	5 - 9 7 - 11	180 225	4 - 8 6 - 10	150 4 200 5	- 8 - 10
Copper Nickel (30%) Beryllium Copper	230 180	7 - 11 5 - 9	220 170	7 - 11 5 - 9	200 160	6 - 10 4 - 8	180 140	5 - 9 4 - 8	160 130	5 - 9 3 - 7	140 ·	4 - 8 3 - 7	120 4 110 3	- 8 - 7
Bronze Alloys AMPC0 18 AMPC0 21 AMPC0 25 Leaded Tin Bronze Aluminum Bronze 865 Manganese Bronze	200 170 120 320 160 230	5 - 9 4 - 8 2 - 6 10 - 15 6 - 10 7 - 11	180 160 110 300 150 220	5 - 9 4 - 8 2 - 6 10 - 15 6 - 10 7 - 11	170 150 100 280 140 210	4 - 8 4 - 8 2 - 6 10 - 15 5 - 9 6 - 10	150 140 100 260 130	4 - 8 4 - 8 1 - 5 7 - 11 4 - 8 6 - 10	140 130 90 220 120 170	4 - 8 3 - 7 1 - 5 5 - 9 3 - 7 5 - 9	130 120 80 200 110	4 - 8 3 - 7 1 - 5 4 - 8 2 - 6 4 - 8	120     3       110     2       70     1       180     4       100     2       140     3	- 7 - 6 - 5 - 8 - 6 - 7
932 937 Brass Alloys	300 270	10 - 14 8 - 12	290 250	10 - 14 8 - 12	270 240	9 - 13 7 - 11	250 210	6 - 10 6 - 10	220 200	5 - 9 5 - 9	200	5 - 9 5 - 9	160 4 160 4	- 8 - 8
Cartridge / Red Brass (85%) Naval Brass	240 220	9 - 13 6 - 10	220 200	8 - 12 6 - 10	210 190	8 - 12 6 - 10	200 170	7 - 11 4 - 8	180 160	6 - 10 4 - 8	160 ·	4 - 10 4 - 8	140 4 130 4	- 10 - 8
1008, 1013, 1015, 1018 1030 1035 1045, 1048 1060, 1065 1080 1095	300 270 300 230 230 220 220	11     -     15       8     -     12       11     -     15       11     -     15       7     -     11       7     -     11       7     -     11       7     -     11       7     -     11       7     -     11       7     -     11	280 250 280 280 220 210 210 210	10     -     14       8     -     12       10     -     14       10     -     14       7     -     11       6     -     10       6     -     10	260 240 260 260 210 200 200	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	240 210 240 240 190 180 180	8       -       12         6       -       10         8       -       12         8       -       12         6       -       10         5       -       9         5       -       9	220 200 220 220 170 160 160	6       -       10         5       -       9         6       -       10         6       -       10         5       -       9         5       -       9         5       -       9         5       -       9	200 1 180 2 200 1 200 1 150 4 140 4 140 4	6 - 10 5 - 9 6 - 10 6 - 10 4 - 8 4 - 10 4 - 10	180         4           160         4           180         4           180         4           140         3           130         4           130         4	- 8 - 8 - 8 - 8 - 7 - 10 - 10
Free Machining St 1108, 1111 1112, 1113 1115, 1137, 1145, 1151 1212, 1213 1215 12L14 Construct Const	eels 300 300 300 300 350 380	11 - 15 11 - 15 11 - 15 11 - 15 12 - 16 12 - 16	280 280 280 280 330 360	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	260 260 260 260 310 340	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	240 240 240 240 290 320	8       -       12         8       -       12         8       -       12         10       -       14         10       -       14	220 220 220 220 220 280 300	6       -       10         6       -       10         6       -       10         6       -       10         8       -       12         8       -       12	200 200 200 200 200 260 260		180       4         180       4         180       4         180       4         240       6         230       6	- 8 - 8 - 8 - 8 - 10 - 10
A36 Manganese Steels	280	10 - 14	260	10 - 14	240	10 - 14	220	8 - 12	200	8 - 12	180 (	6 - 10	160 6	- 10
1320, 1330, 1345 1513, 1524, 1536 1541, 1572 1524	270 250 220 200	8 - 12 5 - 9 7 - 11 6 - 10	250 240 210 190	8 - 12 5 - 9 6 - 10 6 - 10	240 230 200 180	7 - 11 5 - 8 6 - 10 5 - 9	210 210 180 160	6 - 10 4 - 8 5 - 9 4 - 8	200 200 160 140	5 - 9 4 - 8 5 - 9 4 - 8	180 180 140 120	5 - 9 3 - 7 4 - 10 4 - 8	160       4         160       3         130       4         100       3	- 8 - 7 - 10 - 7
Molybdenum Stee 4017, 4024 4032, 4042 4047, 4066	ls 270 270 220	8 - 12 8 - 12 7 - 11	250 250 210	8 - 12 8 - 12 6 - 10	240 240 200	7 - 11 7 - 11 6 - 10	210 210 180	6 - 10 6 - 10 5 - 9	200 200 160	5 - 9 5 - 9 5 - 9	180 180 140	5 - 9 5 - 9 4 - 10	160 4 160 4 130 4	- 8 - 8 - 10
Chrome Woly Stee 4130, 4140 4142, 4150 41150 4150H Chrome Alloy Stee	250 200 250 250	5 - 9 6 - 10 5 - 9 5 - 9	240 190 240 240	5 - 9 6 - 10 5 - 9 5 - 9	230 180 230 230	5 - 8 5 - 9 5 - 8 5 - 8	210 160 210 210	4 - 8 4 - 8 4 - 8 4 - 8	200 140 200 200	4 - 8 4 - 8 4 - 8 4 - 8	180 120 180 180	3 - 7 4 - 8 3 - 7 3 - 7	1603100316031603	- 7 - 7 - 7 - 7
5045, 5046 5120, 5135 5140, 5160 50100, 52100 6117, 6120 6150 Nickel Chrome-Ma	250 250 220 180 220 200	5 - 9 5 - 9 7 - 11 5 - 9 7 - 11 6 - 10	240 240 210 170 210 210 190	5       -       9         5       -       9         6       -       10         5       -       9         6       -       10         6       -       10         6       -       10	230 230 200 160 200 180	5 - 8 5 - 8 6 - 10 5 - 9 6 - 10 5 - 9	210 210 180 150 180 160	4       -       8         4       -       8         5       -       9         4       -       8         5       -       9         4       -       8         5       -       9         4       -       8	200 200 160 130 160 140	4       -       8         4       -       8         5       -       9         4       -       8         5       -       9         4       -       8         5       -       9         4       -       8	180 180 140 120 140 140 120	3 - 7 3 - 7 4 - 10 3 - 7 4 - 10 4 - 8	160       3         160       3         130       4         100       3         130       4         100       3         100       3	- 7 - 7 - 10 - 7 - 10 - 7 - 7
4317, 4320 4337, 4340 8615, 8620, 8627 8630, 8640, 8645 8647, 8660 8715, 8750 9310, 9317 9437, 9445 9747, 9763 9840, 9850 E9310 Nickel-Moly Steels 4608, 4621 4640 4820	230 210 230 200 200 200 200 200 230 230 230 23	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	220 200 290 190 190 190 190 190 220 210 210 170 210 190 220 210	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	210 190 210 180 180 180 180 210 200 160 200 180 200 180 200 180	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	190 170 190 160 160 160 130 160 190 180 150 180 160 160		170 160 170 140 140 140 120 120 170 160 130	$\begin{bmatrix} 5 & - & 9 \\ 4 & - & 8 \\ 5 & - & 9 \\ 4 & - & 8 \\ 4 & - & 8 \\ 4 & - & 8 \\ 1 & - & 5 \\ 4 & - & 8 \\ 5 & - & 9 \\ 5 & - & 9 \\ 5 & - & 9 \\ 4 & - & 8 \\ 5 & - & 9 \\ 5 & - & 9 \\ 4 & - & 8 \\ 5 & - & 9 \\ 5 & - & 9 \\ 5 & - & 9 \\ 4 & - & 8 \\ 5 & - & 9 \\ 5 & - & 1 \\ 5 & - & 1 \\ 5 & - & 1 \\ 5 & - & 1 \\ 5 & - & 1 \\ 5 & - & 1 \\ 5 & - & 1 \\ 5 $	150         -           140         -           150         -           120         -           120         -           120         -           120         -           120         -           150         -           150         -           120         -           120         -           120         -           120         -           140         -           120         -           120         -	4       -       8         3       -       7         4       -       8         4       -       8         4       -       8         1       -       5         4       -       8         4       -       8         4       -       8         4       -       8         4       -       8         4       -       8         3       -       7         4       -       10         4       -       8         2       -       7	140         3           130         3           140         3           100         3           100         3           100         3           100         3           100         3           100         3           100         3           140         3           140         3           140         3           140         3           140         3           130         4           100         3           130         4           100         3	- 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7
Silicon Steels 9255, 9260 9261, 9262	180 170	5 - 9	170 160	5 - 9	160 150	5 - 9	150 130	4 - 8	130 120	4 - 8	120 110	3 - 7 1 - 5	100 3 100 1	- 7 - 5

\* 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 t 5/7, 5/8.	to 2" , 4/6, 3/4	From 4/E	2" - 4" 6, 3/4	From 4" - 6" 3/4, 2/3		From 1.4/2	n 6" - 10" 2.5, 1.5/2	From 1.4/2	10" - 12" .5, 1.5/2	From <sup>2</sup> 1.0/1.5, 1.2	12" - 16" 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)	d Cutting Rate (SIPM)	Blade Speed (SFPM)	d Cutting Rate (SIPM)	Blade Speed (SFPM)	I Cutting Rate (SIPM)	Blade Speed (SFPM)	Cutting Rate (SIPM)
Low Alloy Tool Ste L-6	els 180	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
L-7 Water-Hardening	180 Tool Steels	5 - 9	170	5 - 9	160	5 - 9	150	4 - 8	130	4 - 8	120	3 - 7	100	3 - 7
W-1 Die Steels	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
D-2, D-3 D-7	100 80	1 - 5 1 - 5	90 70	1 - 5 1 - 5	90 60	1 - 5 1 - 5	80 50	1 - 5	70 50	1 - 5	70 50	1 - 5 1 - 5	60 50	1 - 5 1 - 5
A-2 A-6	180 140	4 - 8	170 130	4 - 8	160 130	4 - 8	150 120	4 - 8	130 110	3 - 7	110 100	3 - 7	100 90	2 - 6
A-10	110	2 - 6	100	2 - 6	100	2 - 6	90 210	2 - 6	80 200	2 - 6	70 180	2 - 6	60 160	2 - 6
0-6 Hot Mark Tool Sta	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
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
нgn ареец тоога M-1 мама	140	2 - 6	130	2 - 6	130	2 - 6	120	1 - 5	110 80	1 - 5	100	1 - 5	90	1 - 5
M-10 M-4 M-42	110	2 - 6	100	2 - 6	100 90	2 - 6	90 80	2 - 6	80	2 - 6	70	2 - 6	60 50	2 - 6
T-1 T-15	100	1 - 5	90 70	1 - 5	90 60	1 - 5	80 50	1 - 5	70 50	1 - 5	60 50	1 - 5	50 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 Shock Resistant 1	180 Tool Steels:	4 - 8	170	4 - 8	160	4 - 8	150	3 - 7	140	3 - 7	130	3 - 7	110	2 - 6
S-1, S-7 S-2, S-5	180 150	4 - 8 2 - 6	170 140	4 - 8 2 - 6	160 130	4 - 8 2 - 6	150 120	4 - 8	130 110	3 - 7 1 - 5	110 100	3 - 7 1 - 5	100 90	2 - 6 1 - 5
Stainless Steels: 201, 202, 302, 304	110	2 - 6	100	2 - 6	100	2 - 6	90	2 - 6	80	2 - 6	70	2 - 6	60	2 - 6
303,303F 308, 309, 310, 330	120 80	2 - 6	110 70	2 - 6	100 60	2 - 6	100 50	1 - 5	90 50	1 - 5	80 50	1 - 5	70 50	1 - 5
314, 316, 317 321, 347	100	1 - 5	90	1 - 5	90 100	1 - 5	80 90	1 - 5	70	1 - 5	60 70	1 - 5	50 60	1 - 5
410, 420, 420F 416, 430F	140	4 - 8	130	4 - 8	130	4 - 8	120	3 - 7	110	3 - 7	100	3 - 7	90 110	2 - 6
430, 446 440 A, 440 B, 440 C	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
440 F, 443 17-4 PH	140	2 - 6	130 90	2 - 6	130 90	2 - 6	120 80	1 - 5	110 70	1 - 5	100	1 - 5	90 50	1 - 5
15-5 PH Nickel Allovs	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
2317 2330, 2345	190 170	5 - 9	180 160	5 - 9	170 150	5 - 9	150 130	4 - 8	140 120	4 - 8	130 110	4 - 8	120 100	3 - 7
2512, 2517 Monel	140 100	2 - 6	130 90	2 - 6	130 90	2 - 6	120 80	1 - 5	110 70	1 - 5	100 60	1 - 5	90 50	1 - 5
Monel R Monel K-500	140 80	2 - 6	130 70	2 - 6 1 - 5	130 60	2 - 6	120 50	1 - 5	110 50	1 - 5	100 50	1 - 5	90 50	1 - 5 1 - 5
Monel KR Duranickel	80 60	1 - 5	70 50	1 - 5 1 - 5	60 50	1 - 5 1 - 5	50 50	1 - 5	50 50	1 - 5	50 50	1 - 5	50 50	1 - 5
nconel 600 nconel 625	80 100	1 - 5	70 90	1 - 5 1 - 5	60 90	1 - 5 1 - 5	50 80	1 - 5	50 70	1 - 5	50 60	1 - 5	50 50	1 - 5
nconel /18 Hastelloy B,	100	1 - 5	90	1 - 5	90	1 - 5	80 50	1 - 5	70	1 - 5	50	1 - 5	50	1 - 5
Vaspalloy Nimonic 90	100	1 - 5	90	1 - 5	90	1 - 5	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
VIMONIC 75 VI-SPAN-C 962, Deno 44	100	1 - 5	90	1 - 5	90	1 - 5	50 80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5
Rene 88	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
Titanium Alloys TI-4 AL-4 MO	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
TI-140 A 20R-2IVIO TI-150 A	80	1 - 5	70	1 - 5	60	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
MST-GAL 4V	80	1 - 5	70 0	1 - 5	60 00		50	1 - 5	50	1 - 5	50	1 - 5	50	1 - 5
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														
4000 (60-40-18) 4536	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
(120-90-02) M8	200	6 - 10	190	6 - 10	180	5 - 9	160	4 - 8	140	4 - 8	120	4 - 8	100	3 - 7
(Class 20-20ksi)	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
(Class 40-40ksi)	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7
	250	5 - 9	240	5 - 9	230	5 - 8	210	4 - 8	200	4 - 8	180	3 - 7	160	3 - 7

# **CUT TIME CALCULATOR**

Bar Dia.	Bar Area,	1 IN <sup>2</sup>	2 IN²	3 IN²	4 IN <sup>2</sup>	5 IN²	6 IN²	7 IN²	8 IN²	9 IN²	10 IN²	11 IN <sup>2</sup>	12 IN²	13 IN²	14 IN <sup>2</sup>	15 IN²	16 IN²	17 IN <sup>2</sup>	18 IN²
	IN <sup>2</sup>	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/MIN	/ MIN	/MIN
1 00	1.00       0.79       .39       .26       .20       .16       .13       .11       .10       .09       .08       .07       .06       .06       .05       .05       .04															<u>04</u>			
1.25	1.23	1.2	.61	.20	.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

**Removal Rate - Square Inches Per Minute** 

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To find the area of bars larger than 10" diameter use the formula " $\pi$ (3.14) x radius<sup>2</sup>". Take half the diameter (radius) multiply it by itself. Then multiply that by 3.14. **Example:** 20" bar. Half the diameter is 10". 10 x 10 = 100. 100 x 3.14 = 314 square inches.
**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.

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 PROBLEM SOLVING**

Problem	Problem Cause	Solution
Premature Blade Breakage Straight Break indicates fatigue	<ul> <li>Incorrect blade - teeth too coarse</li> <li>Blade tension too high</li> <li>Side guides too tight</li> <li>Damaged or misadjusted blade guides</li> <li>Excessive feed</li> <li>Incorrect cutting fluid</li> <li>Wheel diameter too small for blade</li> <li>Blade rubbing on wheel flanges</li> <li>Teeth in contact with work before starting saw</li> <li>Incorrect blade speed</li> </ul>	<ul> <li>Use finer tooth pitch</li> <li>Reduce blade tension (see machine manual)</li> <li>Check side guide clearance (see machine manual)</li> <li>Check all guides for alignment/damage</li> <li>Reduce feed pressure</li> <li>Check coolant</li> <li>Use thinner blade</li> <li>Adjust wheel alignment</li> <li>Allow 1/2" clearance before starting cut</li> <li>Increase or decrease blade speed</li> </ul>
Premature Dulling of Teeth	<ul> <li>Teeth pointing in wrong direction / blade mounted backwards</li> <li>Improper or no blade break-in</li> <li>Hard spots in material</li> <li>Material work hardened</li> <li>Improper coolant</li> <li>Improper coolant concentration</li> <li>Speed too high</li> <li>Feed too light</li> <li>Teeth too small</li> </ul>	<ul> <li>Install blade correctly. If teeth are facing the wrong direction, flip blade inside out</li> <li>Break in blade properly (Page 10)</li> <li>Check for hardness or hard spots like scale or flame cut areas</li> <li>Increase feed pressure</li> <li>Check coolant type</li> <li>Check coolant mixture</li> <li>Check recommended blade speed (Page 34-35)</li> <li>Increase feed pressure</li> <li>Increase teed pressure</li> <li>Increase teed pressure</li> </ul>
Inaccurate Cut	<ul> <li>Tooth set damage</li> <li>Excessive feed pressure</li> <li>Improper tooth size</li> <li>Cutting fluid not applied evenly</li> <li>Guides worn or loose</li> <li>Insufficient blade tension</li> </ul>	<ul> <li>Check for worn set on one side of blade</li> <li>Reduce feed pressure</li> <li>Check tooth size chart (Page 33)</li> <li>Check coolant nozzles</li> <li>Tighten or replace guides, check for proper alignment</li> <li>Adjust to recommended tension</li> </ul>
Band Leading in Cut	<ul> <li>Over-feed</li> <li>Pushed material too hard, too fast</li> <li>Insufficient blade tension</li> <li>Tooth set damage</li> <li>Guide arms loose or set too far apart</li> <li>Chips not being cleaned from gullets</li> <li>Teeth too small</li> </ul>	<ul> <li>Reduce feed force</li> <li>Adjust recommended tension</li> <li>Check material for hard inclusions</li> <li>Position arms as close to work as possible. Tighten arms.</li> <li>Check chip brush</li> <li>Increase tooth size</li> </ul>
Chip Welding	<ul> <li>Insufficient coolant flow</li> <li>Wrong coolant concentration</li> <li>Excessive speed and/or pressure</li> <li>Tooth size too small</li> <li>Chip brush not working</li> </ul>	<ul> <li>Check coolant level and flow</li> <li>Check coolant ratio</li> <li>Reduce speed and/or pressure</li> <li>Use coarser tooth pitch</li> <li>Repair or replace chip brush</li> </ul>
Teeth Fracture Back of tooth indicates work spinning in clamps	<ul> <li>Incorrect speed and/or feed</li> <li>Incorrect blade pitch</li> <li>Saw guides not adjusted properly</li> <li>Chip brush not working</li> <li>Work spinning or moving in vise</li> </ul>	<ul> <li>Check cutting chart (Page 34-35)</li> <li>Check tooth size chart (Page 33)</li> <li>Adjust or replace saw guides</li> <li>Repair or replace chip brush</li> <li>Check bundle configuration/adjust vise pressure</li> </ul>
Irregular Break Indicates material movement	<ul> <li>Indexing out of sequence</li> <li>Material loose in vise</li> </ul>	<ul> <li>Check proper machine movement</li> <li>Check vise or clamp</li> </ul>

Teeth Stripping	<ul> <li>Feed pressure too high</li> <li>Tooth stuck in cut</li> <li>Improper or insufficient coolant</li> <li>Incorrect tooth size</li> <li>Hard spots in material</li> <li>Work spinning in vise - loose nest or bundle</li> <li>Blade speed too slow</li> <li>Blade teeth running backwards</li> <li>Chip brush not working</li> </ul>	<ul> <li>Reduce feed pressure</li> <li>Do not enter old cut with a new blade</li> <li>Check coolant flow and concentration</li> <li>Check tooth size chart (Page 33)</li> <li>Check material for hard inclusions</li> <li>Check clamping pressure - be sure work is held firmly</li> <li>Increase blade speed - see cutting chart (Page 34-35)</li> <li>Reverse blade (turn inside out)</li> <li>Repair or replace chip brush</li> </ul>	
Wear on Back of Blades	<ul> <li>Excessive feed pressure</li> <li>Insufficient blade tension</li> <li>Back-up guide roll frozen, damaged, or worn</li> <li>Blade rubbing on wheel flange</li> </ul>	<ul> <li>Decrease feed pressure</li> <li>Increase blade tension and readjust guides</li> <li>Repair or replace back-up roll or guide</li> <li>Adjust wheel cant</li> </ul>	
Rough Cut Washboard surface vibration and or chatter	<ul> <li>Dull or damaged blade</li> <li>Incorrect speed or feed</li> <li>Insufficient blade support</li> <li>Incorrect tooth pitch</li> <li>Insufficient coolant</li> </ul>	<ul> <li>Replace with new blade</li> <li>Increase speed or decrease feed</li> <li>Move guide arms as close as possible to the work</li> <li>Use finer pitch blade</li> <li>Check coolant flow</li> </ul>	
Wear Lines, Loss of Set	<ul> <li>Saw guide inserts or wheel flange are riding on teeth</li> <li>Insufficient blade tension</li> <li>Hard spots in material</li> <li>Back-up guide worn</li> </ul>	<ul> <li>Check machine manual for correct blade width</li> <li>Tension blade properly</li> <li>Check material for inclusions</li> <li>Replace guide</li> </ul>	
Twisted Blade Profile sawing	<ul> <li>Blade binding in cut</li> <li>Side guides too tight</li> <li>Radius too small for blade width</li> <li>Work not firmly held</li> <li>Erratic coolant flow</li> <li>Excessive blade tension</li> </ul>	<ul> <li>Decrease feed pressure</li> <li>Adjust side guide gap</li> <li>Use narrower blade</li> <li>Check clamping pressure</li> <li>Check coolant nozzles</li> <li>Decrease blade tension</li> </ul>	
Blade Wear Teeth blued	<ul> <li>Incorrect blade</li> <li>Incorrect feed or speed</li> <li>Improper or insufficient coolant</li> <li>"Blueing" caused by excessive heat</li> </ul>	<ul> <li>Use coarser tooth pitch</li> <li>Increase feed or decrease speed</li> <li>Check coolant flow</li> </ul>	39



# M. K. MORSE REVOLUTION THIN KERF CIRCULAR SAW BLADES

Marken Marke

#### **BLADE TYPE**

Thin Kerf Cermet Tipped Industrial Circular Saw Blades

Thin Kerf Carbide Tipped Industrial Circular Saw Blades

#### APPLICATION

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

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

# **INDUSTRIAL THIN KERF CIRCULAR**



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

#### **FEATURES & BENEFITS**

MADE IN	U.S.A.
********	
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OPS

STEEL CUTTING m / 60T / 120 MAX RPM #200295 MADE IN USA ATENT PENDING

10002



# **INDUSTRIAL THIN KERF CIRCULAR**





#### **APPLICATIONS**

- ▼ Carbon steels
- ▼ High alloy steels

#### THIN KERF CERMET TIPPED S TYPE

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 1/2 to 6 inches depending on machine model and blade diameter.

#### BENEFITS

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

Model #	Part #	Diameter	Inner Diameter	Kerf	Teeth Count	Pin Hole	Machine Example
nnn	$\sim$	nn	$\sim$	m	$\sim$	$\sim$	mm
ICTNK25072SB	201346	250mm	32mm	2.0mm	72	4/11/63	Tsune
ICTNK25080SB	201360	250mm	32mm	2.0mm	80	and	Nishijimax Katso ( <i>Wagner</i> )
ICTNK250100SB	201544	250mm	32mm	2.0mm	100	4/9/50	Exact Cut
ICTNK28560SB	201384	285mm	32mm	2.0mm	60		Evenising
ICTNK28572SB	201551	285mm	32mm	2.0mm	72	4/11/63	Tsune
ICTNK28580SB	201407	285mm	32mm	2.0mm	80	4/9/50	Nishijimax
ICTNK285100SB	201568	285mm	32mm	2.0mm	100		Naisu
ICTS360100SB	200332	285mm	50mm	2.74mm	100	4/14/80	Tsune Kaltenbach Katso
ICAM36060SB	200356	360mm	40mm	2.74mm	60		Amada Everising
ICAM36080SB	200370	360mm	40mm	2.74mm	80	4/11/90	Mega Missler Daito / Delta Behringer
ICAM360100SB	200394	360mm	40mm	2.74mm	100		
ICNT36060SB	201506	360mm	50mm	2.74mm	60	4/14/80	Tsune Nishiiimax
ICNT36080SB	201513	360mm	50mm	2.74mm	80	and 4/16/80	Kaltenbach
ICNT360100SB	201520	360mm	50mm	2.74mm	100	17 107 00	Endo
ICTS42060SB	200349	420mm	50mm	2.74mm	60	4 (4 6 (9 0	Tsune
ICTS42080SB	200363	420mm	50mm	2.74mm	80	4/16/80	Endo
ICNI46060SB	202015	460mm	50mm	2.74mm	60	4/16/80	Nishiiimax
ICNI46080SB	202022	460mm	50mm	2.74mm	80	and	Amada
ICNI460100SB	202039	460mm	50mm	2.74mm	100	4/21/90	Everising







#### **APPLICATIONS**

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

#### THIN KERF CARBIDE TIPPED C TYPE

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

#### BENEFITS

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

Model #	Part #	Diameter	Inner Diameter	Kerf	Teeth Count	Pin Hole	Machine Example
nnn	$   \sum $	m	n	m	$\sim$	m	mm
ICTNK25080CB	203067	250mm	32mm	2.03mm	80	4/11/63 and 4/9/50	Tsune Nishijimax Katso ( <i>Wagner</i> ) Exact Cut
ICTNK28580CB	203005	285mm	32mm	2.03mm	80	4/11/63 and 4/9/50	Everising Tsune Nishijimax Katso
ICNT36060CB	203012	360mm	50mm	2.74mm	60	4/14/80	Tsune Kaltenback
ICNT36080CB	203036	360mm	50mm	2.74mm	80	and	
ICNT360100CB	203074	360mm	50mm	2.74mm	100	4/16/80	Katso
ICAM36060CB	203081	360mm	40mm	2.74mm	60	4/11/90	Amada Everising Mega
ICAM36080CB	203029	360mm	40mm	2.74mm	80	4/11/30	Daito / Delta Behringer
ICTS42060CB	203043	420mm	50mm	2.74mm	60	4/16/80	Tsune Endo
ICNI46060CB	203050	460mm	50mm	2.74mm	60	4/16/80 and 4/21/90	Nishijimax Amada Everising





# THIN KERF INDUSTRIAL CIRCULAR

#### **BLADE TYPE SELECTION GUIDE**



#### **BLADE TOOTH SELECTION GUIDE**



**RPM SELECTION GUIDE** 



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PROBLEM	PROBLEM CAUSE	SOLUTION	
Teeth stripping	Incorrect blade selection	Select a blade with larger gullet space Select a blade with less number of tips	
	Excessive cutting speed	Refer to the cutting conditions chart	
	Excessive chip load	Refer to the cutting conditions chart	
	Excessive wear at the cutting edge	Check for the integrity of the chip groove Direct mist on to the cutting edge	
	Low clamp/vise pressure	Increase hydraulic pressure up to specified level	
Gullet clogging	Incorrect blade selection	Select a blade with larger gullet space Select a blade with less number of tips	
	Insufficient coolant	Increase coolant rate until cut surface is wet	
	See chip welding		
Chip welding	Incorrect cutting conditions	Check RPM Increase RPM if it is below the recommended Check chip load Increase chip load if it is below recommended	
	Insufficient coolant	Check coolant rate Increase coolant rate Check orientation of outlet nozzle Check chip brush Adjust or replace chip brush if necessary	
	Damaged tip	Check the tip for physical damages Run if necessary at reduced chip load	
	Excessive wear at the cutting edge	Increase coolant and air flow Run at low RPM	
Out of square cuts	High or low plate tension	Remove the blade	
	Chamfer imbalance	Remove the blade	
Billet weight not holding	Machine malfunction	Check/clean the feed sensors	
Ripples on the cut surface	Low or high plate tension	Remove the blade	
	Insufficient coolant	Check coolant flow	
	Out of square machine	Check cleanliness of jaws Check squareness of jaws Check feeding mechanism and sensors	





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# POWER TOOL ACCESSORIES

BLADE TYPE	APPLICATION
Bi-Metal Hole Saws	Engineered for optimized cutting performance and life. Exceptional durability yields cost- per-cut savings over other saws when cutting stainless steel, steel, machinable metals, nail- embedded woods and plastics.
Carbide Tipped Hole Cutters	Precision ground for clean, fast cuts. Cuts stainless steel, sheet metal, pipe and conduit, aluminum, plastics.
Spade Bits	Wood, plastic, plywood, formica. Fast, deep cutting at any angle.
Step Drills	Step drills are ideal for drilling repetitive holes by electrical contractors, sheet metal workers, and auto mechanics.
Double Cut Auger Bits	Premium double fluted auger bits provide excellent deep boring in wood and nail-embedded wood applications. Precision ground, heat- treated and tempered cutting edges cut through nails.
Arbors	Durable, heavy-duty, carbon steel arbors come complete with pilot drills. Adapt Morse hole saws to any power drill used by professionals.
Reciprocating Saw Blades	Offering the longest lasting reciprocating blades available, M. K. Morse reciprocating blades cut more smoothly, more accurately and deliver greater cost savings per cut.
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.
Portable Band Saw Blades	Long lasting premium blades offer fast cutting with reduced wear and breakage.
Jig Saw Blades	These safe, smooth-cutting blades cut quickly through a wide variety of materials. All are available in different shank configurations to fit various saw models
Hack Saw Blades And Frames	Used to cut pipe, tubing, solids, wood, plastic or any machinable metal. Increased heat and wear resistance for long life. Flexible to prevent shattering during use.

# **POWER TOOL ACCESSORIES**



### WE HELP POWER TOOLS DO THEIR JOB BETTER

Our whole business is making saw blades for professionals. We make blades that last longer, cut smoother and do every conceivable cutting job. We make them for plumbers, electricians, carpenters, roofers, sheet metal workers, and anyone who uses power tools.

We make it our job to never, ever, let these people down. Toward this end we've continually invested in better research and development, better manufacturing processes, better raw materials and better warehousing facilities. The result is a wide-ranging product line that offers professionals blades that work better and last longer.



# M. K. MORSE HOLE CUTTING & BORING TOOLS

BLADE TYPE	APPLICATION
Bi-Metal MHS and MHSA Hole Saws	Engineered for optimized cutting performance and life. Exceptional durability yields cost-per-cut savings over other saws when cutting stainless steel, steel, machinable metals, nail-embedded woods and plastics.
Tungsten Carbide Tipped MHST Hole Saws	Nail free wood, plastic, fiberglass, drywall, fiberboard, plaster, acoustic tile, countertops. Coarser tooth pitch than bimetal hole saws for very fast cutting in soft abrasive material. Not recommended for pipe.
Tungsten Carbide Grit Edge MHSG Hole Saws	For use in hard or abrasive material. Cement, brick, cinder block, cement board, plaster with lath, unglazed ceramics, fiberglass, composites, computer flooring, acoustic tile.
Diamond Grit Edge Hole Saws	Extremely hard or brittle materials where cut finish is important. Use with granite (stone), ceramic tile, glass block, architectural stone, brick (masonry), cast iron, laminate flooring.
Carbide Tipped Hole Cutters	Precision ground for clean cuts. Cuts stainless steel, sheet metal, pipe and conduit, aluminum, plastics.
Spade Bits	Wood, plastic, plywood, formica. Fast, deep cutting at any angle.
Step Drills	Sheet metal, plastic/plexiglass, PVC, composition board. Use to drill new holes or enlarge existing holes. Commonly used in electrical and automotive applications. Also use to deburr in auto rust proofing.
Double Cut Auger Bits	Excellent for deep boring in wood and nail embedded wood. Applications include landscaping timbers, plumbing and electrical installation, log and timber frame construction.

#### **INTRODUCING...**

The ALL-NEW Advanced Bi-Metal Hole Saw by Morse our latest sawing innovation replaces all current Morse bi-metal hole saw solutions into one, simple optimized powerhouse.

#### FEATURES AND BENEFITS

#### PATENT PENDING TOOTH SET DESIGN

▼ Optimized to Remove Material Faster

#### NEW CAP

▼ Reduces Runout and Vibration

#### PREMIUM M42 HIGH SPEED STEEL CUTTING EDGE, 8% COBALT

▼ Over 2X the Life of Our AV Model

#### CUTTING DEPTH

▼ Increased 18% Over Our AV Model

#### HEAVY DUTY .050 SIDE WALL

▼ For Greater Stability

#### NEW SIDE SLOT

▼ Increased Leverage for Faster, Easier Slug Removal

#### NEW EXTERIOR RED COATING

▼ Reduces Side Wall Friction for Efficient Cutting



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#### **MORSE HOLE SAWS**

The ALL-NEW Advanced Bi-Metal Hole Saw by Morse. Our latest sawing innovation replaces all current Morse bi-metal hole saw solutions into one, simple optimized powerhouse. Arbor required.

BENEFITS

#### APPLICATIONS

- ▼ Wood
- ▼ Plastic
- ▼ Machinable metals
- ▼ Stainless steel alloys
- ▼ Nail-embedded wood
- ▼ 1<sup>15</sup>⁄1<sup>6</sup>" (49.2 mm) cutting depth
   ▼ New side slot for increased leverage for faster, easier slug removal

▼ Optimized to remove material faster

▼ Premium M42 high speed steel

▼ New cap reduces runout and vibration

DIAMETED		BOX MODEE HOL	E GAW				
SIZE	MM	Model	Part Part	Model	Part		
mmmmmmm							
<sup>9</sup> /16"	14	MHS09	177092	MHSO9C	178099		
5/8"	16	MHS10	177108	MHS10C	178105		
	16	MHS105	177511	MHS105C	178518		
11/16"	17	MHS11	177115	MHS11C	178112		
3⁄4"	19	MHS12	177122	MHS12C	178129		
	20	MHS125	177559	MHS125C	178556		
<sup>13</sup> /16"	21	MHS13	177139	MHS13C	178136		
7/8"	22	MHS14	177146	MHS14C	178143		
<sup>15</sup> / <sub>16</sub> "	24	MHS15	177153	MHS15C	178150		
	25	MHS155	177573	MHS155C	178570		
1"	25	MHS16	177160	MHS16C	178167		
<b>1</b> 1⁄16"	27	MHS17	177177	MHS17C	178174		
1 <sup>1</sup> /8"	29	MHS18	177184	MHS18C	178181		
	30	MHS185	177597	MHS185C	178594		
<b>1</b> <sup>3</sup> / <sub>16</sub> "	30	MHS19	177191	MHS19C	178198		
11⁄4"	32	MHS20	177207	MHS2OC	178204		
	32	MHS205	177658	MHS205C	178655		
<b>1</b> <sup>5</sup> / <sub>16</sub> "	33	MHS21	177214	MHS21C	178211		
1³/8"	35	MHS22	177221	MHS22C	178228		
	35	MHS225	177696	MHS225C	178693		
17/16"	37	MHS23	177238	MHS23C	178235		
11⁄2"	38	MHS24	177245	MHS24C	178242		
1³⁄8"	40	MHS25	177252	MHS25C	178259		
	40	MHS255	177733	MHS255C	178730		
15⁄8"	41	MHS26	177269	MHS26C	178266		
1 <sup>11</sup> /16"	43	MHS27	177276	MHS27C	178273		
13⁄4"	44	MHS28	177283	MHS28C	178280		
	45	MHS285	177740	MHS285C	178747		
1 <sup>13</sup> /16"	46	MHS29	177290	MHS29C	178297		





		BO MORSE H	DX IOLE SAW	CL MORSE H	AM IOLE SAW
SIZE	MM	Model	Part	Model	Part
nn	nnn	mm	mm	mm	mm
17⁄8"	48	MHS30	177306	MHS30C	178303
	50	MHS315	177313	MHS315C	178310
2"	51	MHS32	177320	MHS32C	178327
2 1⁄16"	52	MHS33	177337	MHS33C	178334
2 1⁄8"	54	MHS34	177344	MHS34C	178341
	55	MHS345	177351	MHS345C	178358
2 1⁄4"	57	MHS36	177368	MHS36C	178365
2 5⁄16"	59	MHS37	177375	MHS37C	178372
2 <sup>3</sup> /8"	60	MHS38	177382	MHS38C	178389
	62	MHS385	177399	MHS385C	178396
2 1/2"	64	MHS40	177405	MHS40C	178402
2 <sup>9</sup> /16"	65	MHS41	177412	MHS41C	178419
2 5⁄8"	67	MHS42	177429	MHS42C	178426
	68	MHS425	177436	MHS425C	178433
2 3⁄4"	70	MHS44	177443	MHS44C	178440
2 7⁄8"	73	MHS46	177467	MHS46C	178464
	75	MHS475	177474	MHS475C	178471
3"	76	MHS48	177481	MHS48C	178488
3 1⁄8"	79	MHS50	177504	MHS50C	178501
3 1⁄4"	83	MHS52	177528	MHS52C	178525
3 3⁄8"	86	MHS54	177542	MHS54C	178549
3 1/2"	89	MHS56	177566	MHS56C	178563
3 5⁄8"	92	MHS58	177580	MHS58C	178587
<b>3</b> <sup>3</sup> /4"	95	MHS60	177603	MHS60C	178600
3 7/8"	98	MHS62	177627	MHS62C	178624
	100	MHS63	177634	MHS63C	178631
4"	102	MHS64	177641	MHS64C	178648
4 <sup>1</sup> /8"	105	MHS66	177665		
4 1/4"	108	MHS68	177689		
4 <sup>3</sup> /8"	111	MHS70	177702		
4 1/2"	114	MHS72	177726		
4 <sup>3</sup> /4"	121	MHS76	177764		
5"	127	MHS80	177801		
5 <sup>1</sup> /4"	133	MHS84	177849		
5 <sup>1</sup> /2"	140	MHS88	177887		
5 <sup>3</sup> /4"	146	MHS92	177924		
6"	152	MHS96	177962		
6 <sup>3</sup> /8"	162	MHS104	177498		
6 5⁄8"	168	MHS106	177535		

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#### **MORSE HOLE SAWS WITH ARBOR**

The ALL-NEW Advanced Bi-Metal Hole Saw by Morse. Our latest sawing innovation replaces all current Morse bi-metal hole saw solutions into one, simple optimized powerhouse.

#### **APPLICATIONS**

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

BENEFITS

- ▼ Optimized to remove material faster
- New cap reduces runout and vibration Premium M42 high speed steel ▼
- ▼
- 1<sup>15</sup>/<sub>16</sub>" (49.2 mm) cutting depth ▼
- ▼ New side slot for increased leverage for faster, easier slug removal

DI	AMETER	CLAM MORSE HOLE SAW			
SIZE	ММ	Model	Part		
mm	v	mmm	·		
<sup>9</sup> /16"	14	MHSA09C	116091		
5/8"	16	MHSA10C	116107		
	16	MHSA105C	116671		
11/16"	17	MHSA11C	116114		
3⁄4"	19	MHSA12C	116121		
	20	MHSA125C	116688		
<sup>13</sup> /16"	21	MHSA13C	116138		
7/8"	22	MHSA14C	116145		
<sup>15</sup> /16"	24	MHSA15C	116152		
	25	MHSA155C	116695		
1"	25	MHSA16C	116169		
<b>1</b> <sup>1</sup> / <sub>16</sub> "	27	MHSA17C	116176		
1 <sup>1</sup> /8"	29	MHSA18C	116183		
	30	MHSA185C	116701		
13/16"	30	MHSA19C	116190		
11⁄4"	32	MHSA20C	116206		
	32	MHSA205C	116725		
<b>1</b> <sup>5</sup> / <sub>16</sub> "	33	MHSA21C	116213		
13/8"	35	MHSA22C	116220		
	35	MHSA225C	116749		
17/16"	37	MHSA23C	116237		
11⁄2"	38	MHSA24C	116244		
1 <sup>9</sup> /16"	40	MHSA25C	116251		
	40	MHSA255C	116763		
15⁄8"	41	MHSA26C	116268		
1 <sup>11</sup> /16"	43	MHSA27C	116275		
13⁄4"	44	MHSA28C	116282		
	45	MHSA285C	116770		
1 <sup>13</sup> /16"	46	MHSA29C	116299		

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DIAM	ETEB	CLAM MORSE HOLE SAW					
SIZE	MM	Model	Part				
nnn	mm	mmm	mm				
17⁄8"	48	MHSA3OC	116305				
	50	MHSA315C	116787				
2"	51	MHSA32C	116329				
2 1⁄16"	52	MHSA33C	116336				
2 1/8"	54	MHSA34C	116343				
	55	MHSA345C	116794				
2 1/4"	57	MHSA36C	116367				
<b>2</b> <sup>5</sup> /16"	59	MHSA37C	116374				
2 <sup>3</sup> /8"	60	MHSA38C	116381				
2 1/2"	64	MHSA40C	116404				
2 <sup>9</sup> / <sub>16</sub> "	65	MHSA41C	116411				
2 5/8"	67	MHSA42C	116428				
	68	MHSA425C	116817				
2 <sup>3</sup> /4"	70	MHSA44C	116442				
2 7/8"	73	MHSA46C	116466				
	75	MHSA475C	116831				
3"	76	MHSA48C	116480				
3 1/8"	79	MHSA50C	116503				
3 1/4"	83	MHSA52C	116527				
3 3⁄8"	86	MHSA54C	116541				
3 1/2"	89	MHSA56C	116565				
3 <sup>5</sup> /8"	92	MHSA58C	116589				
3 3/4"	95	MHSA60C	116602				
3 7⁄8""	98	MHSA62C	116626				
	100	MHSA63C	116633				
4"	102	MHSA64C	116640				



#### MORSE BI-METAL HOLE SAWS KITS BENEFITS

- ▼ Cutting depth: 1<sup>15</sup>/<sub>16</sub>" (49.2mm)
- ▼ Arbors included

Grouped in most commonly used sizes
 Standard shipping Pack: 1





#### **8 PC. ELECTRICIAN HOLE SAW KIT**

MHS02E / 177771 Entrance sizes to 2" Saws:  $7/_8$ ", 1  $1/_8$ ", 1  $3/_8$ ", 1  $3/_4$ ", 2", 2  $1/_2$ " Arbors: MA34, MA45PS



#### **13 PC. MASTER ELECTRICIAN HOLE SAW KIT**

MHSO8E / 177757 Entrance sizes to 4" Saws: <sup>7</sup>/<sub>8</sub>", 1 <sup>1</sup>/<sub>8</sub>", 1 <sup>3</sup>/<sub>8</sub>", 1 <sup>3</sup>/<sub>4</sub>", 2", 2 <sup>1</sup>/<sub>2</sub>", 3", 3 <sup>5</sup>/<sub>8</sub>", 4 <sup>1</sup>/<sub>8</sub>", 4 <sup>1</sup>/<sub>2</sub>" Arbors: MA24, MA34, MA45PS



#### 29 PC. ELECTRICIANS COMBINATION HOLE SAW KIT

MHSELEO1 / 177894 16 bi-metal and 9 carbide tipped hole saws in a broad range of sizes used by electricians. Bi-Metal: <sup>3</sup>/4", <sup>7</sup>/8", 1", 1 <sup>1</sup>/8", 1 <sup>1</sup>/4", 1 <sup>3</sup>/8", 1 <sup>1</sup>/2", 1 <sup>3</sup>/4", 2", 2 <sup>1</sup>/2", 2 <sup>5</sup>/8", 3", 3 <sup>5</sup>/8", 4 <sup>1</sup>/8", 4 <sup>1</sup>/2", 4 <sup>3</sup>/4" Carbide Tip: <sup>3</sup>/4", <sup>7</sup>/8", 1 <sup>1</sup>/8", 1 <sup>3</sup>/8", 1 <sup>1</sup>/2", 1 <sup>3</sup>/4", 2", 2 <sup>1</sup>/4", 2 <sup>1</sup>/2" Arbors: MA34, MA35PS / Pilot Drill: (2) MAPD301



#### 8 PC. PLUMBER HOLE SAW KIT

MHSO4P / 177795 Pipe tap sizes for pipe through 2" Saws: <sup>3</sup>/4", <sup>7</sup>/8", 1 <sup>1</sup>/8", 1 <sup>1</sup>/2", 1 <sup>3</sup>/4", 2 <sup>1</sup>/4" Arbors: MA34, MA45PS



#### **15 PC. MASTER PLUMBER HOLE SAW KIT**

 $\begin{array}{l} \mbox{MHS16P} \ / \ 177818 \\ \mbox{Common industrial plumbing and electrical jobs on pipe and conduit through 4 $1/2"$. \\ \mbox{Saws: $3/4", $7/8", $1 $1/8", $1 $1/2", $1 $3/4", $2 $1/4", $2 $9/16", $3", $3 $1/2", $4", $4 $1/4", $4 $1/2"$ \\ \mbox{Arbors: MA34, MA45PS} \\ \mbox{Pilot Drill: (2) MAPD301} \end{array}$ 



#### **26 PC. PLUMBING COMBINATION HOLE SAW KIT**

 $\begin{array}{l} \mbox{MHSPLUO1} \ / \ 177900 \\ \mbox{13 bi-metal and 9 carbide grit hole saws in a broad range of sizes used by plumbers.} \\ \mbox{Bi-Metal: } \ 3/4", \ 7/8", \ 1 \ 1/e", \ 1 \ 3/4", \ 2 \ 1/8", \ 2 \ 1/4", \ 2 \ 9/16", \ 3", \ 3 \ 1/2", \ 4", \ 4 \ 1/4", \ 4 \ 1/2" \\ \mbox{Carbide Grit: } \ 3/4", \ 7/8", \ 1 \ 1/8", \ 1 \ 3/8", \ 1 \ 1/2", \ 1 \ 3/4", \ 2", \ 2 \ 1/4", \ 2 \ 1/4", \ 2 \ 1/2" \\ \mbox{Carbide Grit: } \ 3/4", \ 7/8", \ 1 \ 1/8", \ 1 \ 3/8", \ 1 \ 1/2", \ 1 \ 3/4", \ 2", \ 2 \ 1/4", \ 2 \ 1/2" \\ \mbox{Arbors: MA24, MA45PS / Pilot Drill: (2) MAPD301CT (2) MAPD301 \\ \end{array}$ 



#### 8 PC. UTILITY HOLE SAW KIT

MHSO3U / 177832 6 Commonly used hole saws for general purpose use. Saws:  $^{3}/_{4}$ ",  $^{7}/_{8}$ ", 1  $^{1}/_{8}$ ", 1  $^{1}/_{2}$ ", 1  $^{3}/_{4}$ ", 2  $^{1}/_{2}$ " Arbors: MA34, MA45PS





#### 7 PC. MECHANIC HOLE SAW KIT

<code>MHSO5M / 116916</code> Most popular hole saw sizes for construction, industrial and automotive jobs. Saws: 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 1/2", Arbors: MA34 Adapter Nut



#### **11 PC. MAINTENANCE HOLE SAW KIT**

MHS100 / 177825 Common industrial plumbing and electrical jobs on pipe and conduit through 2". 3/4", 7/8", 1 1/8", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2" Arbors: MA34, MA45PS



#### **14 PC. INDUSTRIAL HOLE SAW KIT**

MHSO8I / 177863 Common industrial plumbing and electrical applications Saws: ¾", ⅛", 1", 1 ¼", 1 ¾", 1 ½", 1 ¾", 2", 2 ¼", 2 ½", 3" Arbors: MA34, MA45PS Extension: ME12



#### **19 PC. INDUSTRIAL HOLE SAW KIT**

MHSO6I / 177870 Common industrial plumbing and electrical jobs on pipe and conduit through 4". Saws: 3/4", 7/6", 1 1/6", 1 3/6", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 3", 3 1/4", 3 5/6", 3 3/4", 4 1/4", 4 1/2" Arbors: MA24, MA34, MA45PS / Extension: ME12



#### 24 PC. PROFESSIONAL TRADESMAN HOLE SAW KIT

MHS23M / 177788 Common industrial plumbing and electrical jobs on pipe and conduit through 4-1/2". Saws: <sup>3</sup>/4", <sup>7</sup>/8", 1", 1 <sup>1</sup>/8", 1 <sup>3</sup>/8", 1 <sup>1</sup>/2", 1 <sup>3</sup>/4", 2", 2 <sup>1</sup>/8", 2 <sup>1</sup>/4", 2 <sup>1</sup>/2", 2 <sup>5</sup>/8", 3", 3 <sup>1</sup>/4", 3 <sup>3</sup>/8", 3 <sup>5</sup>/6", 3 <sup>3</sup>/4", 4 <sup>1</sup>/8", 4 <sup>1</sup>/2", 4 <sup>3</sup>/4" Arbors: MA34, MA45PS Pilot Drill: (2) MAPD301 Extension: ME12



#### **8 PC. LOCKSMITH HOLE SAW KIT**

MHSO2L / 177856 Sizes for installation of popular locks, deadbolts, etc. Saws: 7/8", 1", 1 1/4", 1 1/2", 1 3/4", 2 1/8" Arbors: MA34, MA45PS



#### 4 PC. LOCK INSTALL HOLE SAW KIT

MHSALKIT1 / 116909 The 2 most popular sizes for lock installation to assure accurate installation in wood or metal doors. Saws: 1", 2 1/8" Arbors: MA34 Adapter Nut: M44N01 Adjustable Resin Template Packed: 1 Kit per card, 2 per standard pack







#### **TUNGSTEN CARBIDE GRIT HOLE SAWS**

Long-lasting choice for very hard abrasive materials. These hole saws create clean holes in materials too hard or abrasive for standard bi-metal saws, or so thin they would strip bi-metal or chip carbide teeth. Cutting depth of 1<sup>15</sup>/<sub>16</sub>" (49.2 mm). Arbor required.

#### **APPLICATIONS**

- Acoustic tile
- Brick T
- Cast iron T
- Cement board
- ▼ Ceramics
- ▼ Cinderblock
- Composites
- Fiberglass Hardened steel ▼ Particleboard

▼ Computer flooring

▼

▼

- ▼ Asbestos board
- Formica

#### BENEFITS

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

	R	MODEL #	COMP #	PIPE TAP SIZE	PIPE ENT. SIZE	DIAMETER INCHES MM		MODEL #	COMP #	PIPE TAP SIZE	PIPE ENT. SIZE
hn	$\sim$	$\overline{\mathcal{M}}$			INCHES	$\sim$	$\sim$	m			
3/4"	19	MHSG12	216128	1/2"	3/8"	2 <sup>9</sup> /16"	65	MHSG41	216418		
3/16"	21	MHSG13	216135			2 ⁵∕8"	67	MHSG42	216425	2 1/2"	
7/8"	22	MHSG14	216142	3/4"	1/2"	2 3/4"	70	MHSG44	216449		
<sup>15</sup> / <sub>16</sub> "	24	MHSG15	216159			2 7⁄8"	73	MHSG46	216463		
1"	25	MHSG16	216166			3"	76	MHSG48	216487		2 1/2"
1 <sup>1</sup> /16"	27	MHSG17	216173			3 1⁄8"	79	MHSG50	216500		
1 <sup>1</sup> /8"	29	MHSG18	216180	1	3/4"	3 <sup>1</sup> /4"	83	MHSG52	216524	З	
1 <sup>3</sup> /16"	30	MHSG19	216197			3 <sup>3</sup> /8"	86	MHSG54	216548		
<b>1</b> 1/4"	32	MHSG2O	216203			3 1/2"	89	MHSG56	216562		
1 <sup>5</sup> /16"	33	MHSG21	216210			3 5⁄8"	92	MHSG58	216586		З
1 ³⁄8"	35	MHSG22	216227		1	3 3⁄4"	95	MHSG60	216609	3 1/2"	
1 <sup>7</sup> /16"	37	MHSG23	216234			3 7/8"	98	MHSG62	216623		
1 1/2"	38	MHSG24	216241			4"	102	MHSG64	216647		
1 <sup>9</sup> /16"	40	MHSG25	216258			4 <sup>1</sup> /8"	105	MHSG66	216661		3 1/2"
1 5/8"	41	MHSG26	216265			4 <sup>1</sup> /4"	108	MHSG68	216685	4	
<b>1</b> <sup>11</sup> /16"	43	MHSG27	216272			4 <sup>3</sup> /8"	111	MHSG70	216708		
1 <sup>3</sup> /4"	44	MHSG28	216289	<b>1</b> 1/2"	1 <sup>1</sup> /4"	4 1/2"	114	MHSG72	216722		4
<b>1</b> <sup>13</sup> /16"	46	MHSG29	216296			4 <sup>3</sup> /4"	121	MHSG76	216760	4 <sup>1</sup> /2"	
1 7/8"	48	MHSG30	216302			5"	127	MHSG80	216807		
2	51	MHSG32	216326		1 1⁄2"	5 1/2"	140	MHSG88	216883		
2 1/16"	52	MHSG33	216333			5 <sup>3</sup> /4"	146	MHSG92	216920		
2 1/8"	54	MHSG34	216340			6"	152	MHSG96	216968		
2 1/4"	57	MHSG36	216364	2		6 3/8"	162	MHSG104	216975		
2 5⁄16"	59	MHSG37	216371			6 5⁄8"	168	MHSG106	216982		
2 <sup>3</sup> /8"	60	MHSG38	216388			6 7/8"	174	MHSG110	216999		
2 1/2"	64	MHSG40	216401		2						





	cer cutting in these onal carbide grit g saw blades.				
	RSÊ	APPLIC	ATIONS	BENEFITS	
Glass E Brick (n Cast Iro			te (stone) nic Tile Block (masonry) ron nate Flooring	<ul> <li>Industrial Diamond G and tempered alloy b</li> <li>Fast and easy cutting</li> <li>Finish cut edges are</li> <li>Hollow core center k</li> <li>Side slots allow for factors</li> </ul>	rit brazed to hardened ody. g of abrasive materials. smooth and clean. eeps hole saw centered ast removal of material
DIAM INCHES	ETER MM	MODEL #	COMPUTER #	Pipe Tap Size Inches	Pipe Ent. Size Inches
pm	$\sim$	nnn	mm	$\sim$	mm
<sup>3</sup> /16"	4.8	DGM03C	129152		
1⁄4"	6	DGMO4C	129169		
5/16"	8	DGM05C	129176		
3/8"	9.5	DGM06C	129183		
1/2"	12.7	DGM08C	129190		
5/8"	16	DGM10C	129206		
3/4"	19	DGM12C	129213	¹∕₂" (13mm)	³∕₃" (9.5mm)
1"	25	DGM16C	129220		
1 <sup>3</sup> /8"	35	DGM22C	129237		
Diamond Gri	t Hole Saws a	and Quick Start™ Auto Pi	ot (Arbor Required)		
7/8"	22	DG14C	129008	<sup>3</sup> ⁄4" (19mm)	1⁄2" (13mm)
1 1/8"	29	DG18C	129015	1 (25mm)	<sup>3</sup> ⁄4" (19mm)
<b>1</b> <sup>1</sup> /4"	32	DG2OC	129022		
2"	51	DG32C	129039		11⁄2" (38mm)
2 1/2"	64	DG4OC	129046		2 (51mm)
Auto Pilot		DGAPC	129503		

PACKAGING: 1 per card









#### **APPLICATIONS**

- T Acoustic tile
- Countertops
- Drywall Fiberboard V
- ▼
- ▼ Fiberglass
- ▼ Plaster
- Plastic ▼
- ▼ Nail-free wood

#### **CARBIDE TIPPED HOLE SAWS**

Tungsten carbide tooth tips offer the highest wear resistance possible for fast holes and longer life cutting abrasive materials. Cutting depth of 1 <sup>15</sup>/<sub>16</sub>" (49.2 mm). Arbor required.

#### BENEFITS

- ▼ Special tooth design for very fast hole saw cutting
- ▼ Ground and set 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

DIAN	/IETER			DIAMETER					
INCHES	MM	MODEL #	COMP #	INCHES	MM	MODEL #	COMP #		
nn	nn		$\sim$	h	m	m	$\sim$		
<sup>9</sup> /16"	14	MHST09	157094	2 5/16"	59	MHST37	157377		
	16	MHST105	157971	2 3⁄8"	60	MHST38	157384		
11/16"	17	MHST11	157117	2 1/2"	64	MHST40	157407		
3/4"	19	MHST12	157124	2 <sup>9</sup> /16"	65	MHST41	157414		
	20	MHST125	157988	2 5⁄8"	67	MHST42	157421		
<sup>13</sup> / <sub>16</sub> "	21	MHST13	157131	2 3⁄4"	70	MHST44	157445		
7/8"	22	MHST14	157148	2 7⁄8"	73	MHST46	157469		
<sup>15</sup> / <sub>16</sub> "	24	MHST15	157155	3"	76	MHST48	157483		
1"	25	MHST16	157162	3 1⁄8"	79	MHST50	157506		
<b>1</b> <sup>1</sup> / <sub>16</sub> "	27	MHST17	157179	3 1⁄4"	83	MHST52	157520		
1 1/8"	29	MHST18	157186	3 3⁄8"	86	MHST54	157544		
1 <sup>3</sup> /16"	30	MHST19	157193	3 1/2"	89	MHST56	157568		
1 1⁄4"	32	MHST20	157209	3 5⁄8"	92	MHST58	157582		
1 <sup>5</sup> ⁄16"	33	MHST21	157216	3 3⁄4"	95	MHST60	157605		
1 <sup>3</sup> /8"	35	MHST22	157223	3 7⁄8"	98	MHST62	157629		
1 7⁄16"	37	MHST23	157230	4"	102	MHST64	157643		
1 1/2"	38	MHST24	157247	4 <sup>1</sup> /8"	105	MHST66	157667		
1 <sup>9</sup> /16"	40	MHST25	157254	4 1/4"	108	MHST68	157681		
1 5/8"	41	MHST26	157261	4 <sup>3</sup> /8"	111	MHST70	157704		
<b>1</b> <sup>11</sup> /16"	43	MHST27	157278	4 1/2"	114	MHST72	157728		
1 <sup>3</sup> /4"	44	MHST28	157285	4 3/4"	121	MHST76	157766		
1 <sup>13</sup> /16"	46	MHST29	157292	5"	127	MHST80	157803		
1 7/8"	48	MHST30	157308	5 1/4"	133	MHST84	157841		
2	51	MHST32	157322	5 ¼²"	140	MHST88	157889		
2 1⁄16"	52	MHST33	157339	5 <sup>3</sup> ⁄4"	146	MHST92	157926		
2 1/8"	54	MHST34	157346	6"	152	MHST96	157964		
2 1/4"	57	MHST36	157360						









#### **8 PC. CARBIDE TIPPED ELECTRICIANS KIT** MHST02E / 157940 Carbide Tipped pipe and conduit entrance sizes to 2" through abrasive materials. Saws: 7/8", 11/8", 13/8", 13/4", 2", 21/2" Arbors (1 ea.): MA34CT, MA45PCT

#### **11 PC. CARBIDE TIPPED MAINTENANCE KIT**

MHST100 / 157933 Contains popular carbide tipped sizes used in installation of 1/2" - 2" pipe and conduit through abrasive materials. Saws: 3/4", 7/8", 1 1/8", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2"

Arbors (1 ea.): MA34CT, MA45PCT

#### **11 PC. TUNGSTEN CARBIDE GRIT HOLE SAW KIT**

MHSG100 / 162005 Popular Carbide Grit sizes for plumbing, electrical, and industrial maintenance jobs Saws: 3/4", 7/8", 1 1/8", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2"

Arbors (1 ea.): MA34CT, MA45PCT





#### **RECESSED LIGHTING HOLE SAW**

Cleanly cuts abrasive materials such as lath, plaster and ceiling tile. Carbide grit cutting edge.

#### **APPLICATIONS**

- ▼ Lath
- Plaster
- Ceiling tile

#### BENEFITS

▼ For installing lighting fixtures from Mini Juno, Capri, Marco, Halo, Progress, Lithonla, Ligholier, Preacolite and others.

DIAN	DIAMETER 3		COMPUTER #	FOR INSTALLING THESE LIGHTING FIXTURES	
$\sim$	$\sim$	mm	$\sim$	mmm	_
4 <sup>3</sup> /8"*	111	MHSG70	216708	Mini Juno, Capri, Marco, Halo	-
6 ³⁄8"	162	MHSG104	216975	Halo, Capri	1
6 5⁄8"	168	MHSG106	216982	Juno, Progress	(
6 7⁄8"	174	MHSG110	216999	Lithonla, Marco, Lightolier, Progress, Capri, Preacolite	-
BIMETAL HO	DLE SAWS				-
6 ³⁄8"	162	MHS104	177498	Halo, Capri	
6 5⁄8"	168	MHS106	177535	Juno, Progress	
PACKAGING	: 1 per box	*Gulleted carbide arit cutt	ina edae		





#### ARBORS

Durable, heavy-duty, carbon steel arbors come complete with pilot drills. Adapt Morse hole saws to any power drill used by professionals.



SDS arbors are used in tools having SDS chucks, to drive

hole saws in rotary hammers or hammer drills having a

#### **ARBORS COMPLETE WITH PILOT DRILLS**

Model Number	Computer Number	Shank Size	Thread Size	Drill Number	Computer Number	Chuck Size	Fits Saws	Follow Through
nn	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	nn	m
MA24	139007	<sup>1</sup> /4 Hex	1/2 - 20	01	139113	1⁄4	<sup>9</sup> /16" - 1 <sup>3</sup> /16"	<sup>3</sup> ⁄4" - 1 1⁄2"
MA34	139014	³∕8 Hex	1/2 - 20	MAPD301	139113	3/8	<sup>9</sup> /16" - 1 <sup>3</sup> /16"	<sup>3</sup> /4" - 1 <sup>1</sup> /2"
MA34CT* *	139809	³∕≋ Hex	1/2 <b>- 20</b>	MAPD3CT	139229	3/8	<sup>9</sup> /16" - 1 <sup>3</sup> /16"	<sup>3</sup> /4" - 1 <sup>1</sup> /2"
MA35	139045	³∕8 Hex	<sup>5</sup> ⁄8 - 18	MAPD301	139113	3/8	1 1⁄4" - 6"	1 1⁄2" - 6"
MA35PS	139021	³∕≋ Hex	⁵∕≋ - 18	MAPD301	139113	3/8	1 1⁄4" - 6"	1 1⁄2" - 6"
MA35PSCT * *	139823	³∕≋ Hex	⁵∕≋ - 18	MAPD3CT	139229	<sup>3</sup> /8	1 1⁄4" - 6"	1 1⁄2" - 6"
MA45PS	139038	7∕16 Hex	⁵∕≋ - 18	MAPD301	139113	1/2	1 1⁄4" - 6"	1 1⁄2" - 6"
MA45PSCT**	139816	7∕16 Hex	<sup>5</sup> ⁄8 - 18	MAPD3CT	139229	1/2	11⁄4" - 6"	1 1⁄2" - 6"
SDS1/2QC	140928	SDS	1/2 <b>- 20</b>	MAPD301	139113	SDS	<sup>9</sup> /16" - 1 <sup>3</sup> /16"	<sup>3</sup> /4" - 1 <sup>1</sup> /2"
SDS5/8QC	140911	SDS	<sup>5</sup> ⁄8 - 18	MAPD301	139113	SDS	1 1⁄4" - 6"	1 1⁄2" - 6"
<b>Carded Arbors</b>								
MA24C	139618	<sup>1</sup> /4 Hex	1/2 - 20	MAPD301	139113	1/4"	<sup>9</sup> /16" - 1 <sup>3</sup> /16"	<sup>3</sup> /4" - 1 <sup>1</sup> /2"
MA34C	139625	³∕≋ Hex	1/2 <b>- 20</b>	MAPD301	139113	3/8	<sup>9</sup> /16" - 1 <sup>3</sup> /16"	<sup>3</sup> /4" - 1 <sup>1</sup> /2"
MA35C	139632	³∕≋ Hex	⁵∕≋ - 18	MAPD301	139113	<sup>3</sup> /8	1 <sup>1</sup> /4" - 6"	1 1⁄2"- 6"
MA35PSC	139649	<sup>3</sup> /8 Hex	⁵∕≋ - 18	MAPD301	139113	3/8	1 1⁄4" - 6"	1 1⁄2" - 6"
MA45PSC	139656	7∕16 Hex	<sup>5</sup> ⁄8 - 18	MAPD301	139113	1/2"	1 <sup>1</sup> ⁄4" - 6"	1 1⁄2" - 6"

\*\*Comes with carbide tipped pilot drill for use with carbide tipped and carbide grit hole saws.



Universal Arbor

Pilot Drill

PILOT DRILLS AND ACCESSORIES								
Model Number	Computer Number	Description						
nn	n	mmmmmm						
For use with MHS	6, MHSA, MHSG,	MHST hole saws						
MAPD301	139113	3 <sup>3</sup> /32" X <sup>1</sup> /4" (78.6mm X 6.5mm) Pilot Drill - 1-Pk						
MAPD3C	139212	3 <sup>3</sup> /32" X <sup>1</sup> /4" (78.6mm X 6.5mm) Pilot Drill - 1-Pk, Crd						
MAPD310	139120	3 <sup>3</sup> /32" X <sup>1</sup> /4" (78.6mm X 6.5mm) Pilot Drill - 10-Pk						
MAPD325	139137	3 <sup>3</sup> /32" X <sup>1</sup> /4" (78.6mm X 6.5mm) Pilot Drill - 25-Pk						
MAPD3100	139144	3 <sup>3</sup> / <sub>32</sub> " X <sup>1</sup> / <sub>4</sub> " (78.6mm X 6.5mm) Pilot Drill - 100-Pk						
MAPD3CT	139229	3 <sup>3</sup> / <sub>32</sub> " X <sup>1</sup> / <sub>4</sub> " (78.6mm X 6.5mm) Carbide Tipped Pilot Drill - 1 pack						
MQC14	140386	Fast-Adapt Chuck fits $3/8$ " and larger chucks. Use with $1/4$ " shanks						
MQC38	140393	Fast-Adapt Chuck fits $3/8$ " and larger chucks. Use with $3/8$ " and $7/16$ " shanks						
MES101	140805	Ejector Spring, fits all 1/4" pilot drills						
ME381	140409	12" (305mm) Extension for shank of 3/8" (9.5mm) arbors for 3/8" or larger drill chuck						
WSFEXT5	123990	5-1/2" (140mm) Extension for shank of 7/16" (10.5mm) arbors for 1/2" drill chuck						
ME121	141123	12" (305mm) Extension for shank of 7/16" (10.5mm) arbors for 1/2" drill chuck						
M44N01	140751	Adapts arbors with 1/2 - 20 threads to fit hole saws with 5/8 - 18 threads (Nut)						
M44NH01	140744	Hex Adapter Nut						
For use with AV, N	VIK, TA, TAD, AD	hole saws						
TACPD4S*	122047	3 1/16" X 1/4" (78mm X 6.5mm ) Pilot Drill - 1-Pk, Card						
MPD4SO1	140799	3 <sup>1</sup> / <sub>16</sub> " X <sup>1</sup> / <sub>4</sub> " (78mm X 6.5mm) Pilot Drill - 1-Pk						
MPD4S10	140683	3 <sup>1</sup> / <sub>16</sub> " X <sup>1</sup> / <sub>4</sub> " (78mm X 6.5mm) Pilot Drill - 10-Pk						
MPD4S25	140720	3 <sup>1</sup> / <sub>16</sub> " X <sup>1</sup> / <sub>4</sub> " (78mm X 6.5mm) Pilot Drill - 25-Pk						
MPD4S100	140690	3 <sup>1</sup> / <sub>16</sub> " X <sup>1</sup> / <sub>4</sub> " (78mm X 6.5mm) Pilot Drill - 100-Pk						
TACPD4*	120043	4 <sup>5</sup> /16" X <sup>1</sup> /4" (110mm X 6.5mm) Pilot Drill - 1-Pk, Card						
MPD401	140775	4 <sup>5</sup> /16" X <sup>1</sup> /4" (110mm X 6.5mm) Pilot Drill - 1-Pk						
MPD410	140478	4 <sup>5</sup> /16" X <sup>1</sup> /4" (110mm X 6.5mm) Pilot Drill - 10-Pk						
MPD425	140522	4 <sup>5</sup> /16" X <sup>1</sup> /4" (110mm X 6.5mm) Pilot Drill - 25-Pk						
MPD4100	140492	4 <sup>5</sup> /16" X <sup>1</sup> /4" (110mm X 6.5mm) Pilot Drill - 100-Pk						
TACPD4SCT*	120012	2 <sup>3</sup> /4" X <sup>1</sup> /4" (73mm X 6.5mm) Carbide Tipped Pilot Drill - 1-Pk, Card						
MPD4SCT01	140874	2 <sup>3</sup> /4" X <sup>1</sup> /4" (73mm X 6.5mm) Carbide Tipped Pilot Drill - 1-Pk						
MPD4SCT05	140881	2 <sup>7</sup> /8" X <sup>1</sup> /4" (73mm X 6.5mm) Carbide Tipped Pilot Drill - Tip 5-Pk						
TACPD4CT*	120029	3" X 7/8" (102MM X 6.5mm) Carbide Tipped Pilot Drill - 1-Pk, Card						
MPD4CT01	140850	4" X 1⁄4" (102mm X 6.5mm) Carbide Tipped Pilot Drill - 1-Pk						
MPD4CT05	140867	4" X 1⁄4" (102mm X 6.5mm) Carbide Tipped Pilot Drill - 5-Pk						
*Other pack qua	antities available	. See current price list.						

ltem	Model Number	Computer Number	Description						
mmmmmmmm									
Universal Arbor	MQRAC	143042	Works with adapters MQR58C and MQR12C						
Pilot Drill	MQRPDC	143035	Works with MQRAC - Fast Adapt Arbor						
<sup>5</sup> /8 – 18 Thread	MQR58C	143011	Fits Hole Saw sizes 1 ¼" (32mm) and larger						
1/2 – 20 Thread	MQR12C	143028	Fits Hole Saw sizes <sup>9</sup> /16" (14mm) to 1 <sup>3</sup> /16" (30mm)						
Combo Pack	MQR5812C	143004	Includes: (3) MQR58 Adapters and (2) MQR12 Adapters						



#### SHALLOW CARBIDE TIPPED HOLE CUTTERS

Designed for quick, clean precise cuts in metals and plastics while offering excellent usage life.

#### **APPLICATIONS** ▼ Sheet metal

Aluminum PVC/ABS

▼ Plastic

▼ ▼ Pipe

▼

▼

Stainless steel

#### BENEFITS

- Precision ground triple chip tooth for smooth cutting
   Two cutting depths offered: 1" (25mm) for pipe and conduit <sup>3</sup>/<sub>16</sub>" (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 <sup>3</sup>/<sub>8</sub>" and larger drill chucks

SHALLOW (	SHALLOW CUTTERS DEPTH 3/16" (4.5 MM)			SHALLOW	CUTTEF	<b>RS</b> DEPTH 3/16	" (4.5 MM)	SHALLOW CUTTERS DEPTH 3/16" (4.5 MM)			
INCHES	MM	MODEL #	PART #	INCHES	MM	MODEL #	PART #	INCHI	ES MM	MODEL #	PART #
$\sim$	$\mathcal{N}$	$\sim$	$\sim$	n n	W	$\sim$	$\sim$	$\bigcap$	m	$\sim$	$\sim$
<sup>9</sup> /16"	14	CTSO9	166034	1 ½"	38	CTS24	166195	2 <sup>3</sup> /4	" 70	CTS44	166386
5/8"	16	CTS10	166041	1 <sup>9</sup> /16"	40	CTS25	166201	2 <sup>13</sup> /1	6" 71.5	CTS45	166393
<sup>11</sup> / <sub>16</sub> "	17	CTS11	166058	1 5/8"	41	CTS26	166218	2 7/8	" 73	CTS46	166409
3/4"	19	CTS12	166065	1 <sup>11</sup> /16"	43	CTS27	166225	2 15/1	6" 74.5	CTS47	166416
	20	CTS125	166577	1 <sup>3</sup> /4"	44	CTS28	166232	3"	76	CTS48	166423
<sup>13</sup> / <sub>16</sub> "	21	CTS13	166072	<b>1</b> <sup>13</sup> /16"	46	CTS29	166249	3 1/8	" 79	CTS50	166430
7/8"	22	CTS14	166089	1 7/8"	48	CTS30	166256	3 1/4	. 83	CTS52	166447
<sup>15</sup> /16"	24	CTS15	166096	<b>1</b> <sup>15</sup> /16"	49	CTS31	166263	3 3/8	8 86	CTS54	166454
	25	CTS155	166584		50	CTS315	166614	3 1/2	" 89	CTS56	166461
1"	25	CTS16	166102	2"	51	CTS32	166270	3 5/8	s" 92	CTS58	166478
<b>1</b> 1⁄16"	27	CTS17	166119	2 1/8"	54	CTS34	166287	3 <sup>3</sup> /4	." 95	CTS60	166485
1 1⁄8"	29	CTS18	166126	2 <sup>3</sup> /16"	55.5	CTS35	166294	3 7/8	" 98	CTS62	166492
1 <sup>3</sup> /16"	30	CTS19	166133	2 1/4"	57	CTS36	166300	4"	102	CTS64	166508
1 <sup>7</sup> /32"	31	CTS195	166140	2 <sup>15</sup> /16"	59	CTS37	166317	4 1/s	" 105	CTS66	166515
1 <sup>1</sup> /4"	32	CTS2O	166157	2 3/8"	60	CTS38	166324	4 1/4	" 108	CTS68	166522
	32	CTS2O5	166591	2 7/16"	62	CTS39	166331	4 <sup>3</sup> /8	3" 111	CTS70	166539
<b>1</b> <sup>15</sup> / <sub>16</sub> "	33	CTS21	166164	2 1/2"	64	CTS40	166348	4 1/2	" 114	CTS72	166546
1 <sup>3</sup> /8"	35	CTS22	166171	2 <sup>9</sup> /16"	65	CTS41	166355	4 <sup>3</sup> /4	" 121	CTS76	166553
1 7/16"	37	CTS23	166188	2 5/8"	67	CTS42	166362	5"	127	CTS80	166560
	38	CTS235	166607	2 11/16"	68.5	CTS435	166379				





#### **DEEP CARBIDE TIPPED HOLE CUTTERS**

Designed for quick, clean precise cuts in metals and plastics while offering excellent usage life.

#### **APPLICATIONS** ▼ Sheet metal

Stainless steel

#### BENEFITS

- Precision ground triple chip tooth for smooth cutting
   Two cutting depths offered: 1" (25mm) for pipe and conduit <sup>3</sup>/<sub>16</sub>" (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 <sup>3</sup>/<sub>8</sub>" and larger drill chucks

- PVC/ABS ▼ Plastic

Aluminum

Pipe ▼ ▼

▼

▼

DEEP CUTT	DEEP CUTTERS DEPTH 1" (25 MM)			DEEP CUTI	FERS DE	EPTH 1" (25 M	M)	DEEP CUTTERS DEPTH 1" (25 MM)			
INCHES	MM	MODEL #	PART #	INCHES	MM	MODEL #	PART #	INCHES	MM	MODEL #	PART #
n n	$\mathcal{N}$	$\sim$	$\sim$	n n	$\mathcal{N}$	$\sim$	$\sim$	n n	N	$\sim$	
<sup>9</sup> /16"	14	CTDO9	167024	1 <sup>9</sup> /16"	40	CTD25	167185	3 5⁄8"	92	CTD58	167376
5/8"	16	CTD10	167031	1 5⁄8"	41	CTD26	167192	3 <sup>3</sup> /4"	95	CTD60	167383
11/16"	17	CTD11	167048	<b>1</b> <sup>11</sup> / <sub>16</sub> "	43	CTD27	167208	4"	102	CTD64	167390
3⁄4"	19	CTD12	167055	1 <sup>3</sup> ⁄4"	44	CTD28	167215	4 <sup>1</sup> /8"	105	CTD66	167406
	20	CTD125	167437	1 <sup>13</sup> /16"	46	CTD29	167222	4 1⁄4"	108	CTD68	167413
<sup>13</sup> /16"	21	CTD13	167062	1 7/8"	48	CTD30	167239	4 1/2"	114	CTD72	167420
7/8"	22	CTD14	167079	1 <sup>15</sup> /16"	49	CTD31	167246				
<sup>15</sup> / <sub>16</sub> "	24	CTD15	167086		50	CTD315	167475	SHALLOW CUTTER ACCESSORIES			
	25	CTD155	167444	2"	51	CTD32	167253	Descript	tion	Model	Part No.
1"	25	CTD16	167093	2 1/8"	54	CTD34	167260	Set Scr	ew	CTSWO1	166003
1 <sup>1</sup> /16"	27	CTD17	167109	2 1⁄4"	57	CTD36	167277	Stepped Pil	ot Drill	CTSP	166010
1 <sup>1</sup> /8"	29	CTD18	167116	2 3⁄8"	60	CTD38	167284	Ejector S	pring	CTSS	166027
1 <sup>3</sup> /16"	30	CTD19	167123	2 1/2"	64	CTD40	167291				
1 1⁄4"	32	CTD2O	167130	2 <sup>9</sup> /16"	65	CTD41	167307	DEE		ER ACCESSO	RIES
	32	CTD2O5	167451	2 5⁄8"	67	CTD42	167314	Descript	tion	Model No.	Part No.
1 <sup>5</sup> /16"	33	CTD21	167147	2 <sup>3</sup> ⁄4"	70	CTD44	167321	Set Scr	ew	CTSWO1	166003
1 <sup>3</sup> /8"	35	CTD22	167154	2 7/8"	73	CTD46	167338	Stepped Pil	ot Drill	CTDP	167000
1 7/16"	37	CTD23	167161	3"	76	CTD48	167345	Ejector S	pring	CTDS	167017
	38	CTD235	167468	3 1⁄4"	83	CTD52	167352				
1 1/2"	38	CTD24	167178	3 1/2"	89	CTD56	167369				





#### **6 PC CARBIDE TIPPED SHALLOW CUT ELECTRICIAN**

CTSO1 / 166720

Kit provides clearance for the most common electrical conduit diameters used by professional electricians (from ½" up to 1")

Kit contains:

- 1 CTSP Pilot drill
- 1 CTS14 7/8" (22mm) 1 CTS18 1-1/8" (29mm) 1 - CTSS Ejector spring

1 - CTS22 1-3/8" (35mm) 1 - Hex key

#### **9 PC CARBIDE TIPPED SHALLOW CUT MASTER ELECTRICIAN** CTSO2 / 166737

Kit provides clearance for the most common electrical conduit diameters used by professional electricians (from ½" up to 2")

#### Kit contains:

- 1 CTS14 7/8" (22mm)

- 1 CTS18 1-1/8" (29mm) 1 CTS22 1-3/8" (35mm) 

   1 - CTS28
   1-3/4" (44mm)
   1 - CTS32
   2" (51mm)
   1 - CTS40
   2-1/2" (64mm)

   1 - CTSP Pilot drill
   1 - CTSS Ejector spring
   1 - Hex key



#### **7 PC DEEP CUT BOLT CLEARANCE**

CTDO1 / 167543 Kit provides clearance diameters for the most popular bolt sizes used by professional mechanical

and general contractors

- Kit contains: 1 - CTD11 11/16" (17mm) 1 - CTD13 13/16" (21mm) 1 - CTD15 15/16" (24mm) 1 - CTD17 1-1/16" (27mm) 1 - CTDP Pilot drill 1 - CTDS Ejector spring 1 - Hex Key





#### **STEP DRILLS**

Step drills are ideal for drilling repetitive holes by electrical contractors, sheet metal workers, and auto mechanics. HSS drills are made of high speed steel with double fluted ground cutting edge for long life. Morse also carries TiN coated drills to reduce friction, allowing the bits to last up to six times longer than HSS drills. One per box.

#### APPLICATIONS

Steel

▼ PVC

▼ Plasterboard

▼ Hole enlarging

▼ Copper ▼

V

- Brass
- ▼ Aluminum
- ▼ Plexiglass
- Sheet metal ▼

#### 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	MODEL #	COMPUTER #	SHANK INCHES	POINT TYPE
hnnn	m	m	mm	mmm
1⁄8" - 1⁄2" by 32nds	ESDO1	124003	1/4"	Self-Starting
<sup>3</sup> /16" - <sup>1</sup> /2" by 16ths	ESDO2	124010	1⁄4"	Self-Starting
<sup>3</sup> /16" - <sup>7</sup> /8" by 16ths	ESD03	124027	3/8"	Self-Starting
<sup>1</sup> /4" - <sup>3</sup> /4" by 16ths	ESDO4	124034	<sup>3</sup> /8"	Self-Starting
1/4" - 1 1/8" by 16ths	ESD05	124041	3/8"	Self-Starting
<sup>1</sup> /8" - <sup>3</sup> /8" by 16ths	ESD06	124058	1⁄4"	Self-Starting
<sup>1</sup> /8" - <sup>1</sup> /2" by 16ths	ESD07	124065	1⁄4"	Self-Starting
<sup>9</sup> ⁄16" - 1" by 16ths	ESD08	124072	3/8"	Hole Enlarging ½" or larger Pilot Holes
<sup>3</sup> /4" - 1 <sup>3</sup> /8" by 16ths	ESD09	124089	1/2"	Hole Enlarging <sup>3</sup> /4" or larger Pilot Holes
<sup>1</sup> /4" - <sup>7</sup> /8" by 16ths	ESD10	124096	3/8"	Self-Starting
<sup>1</sup> /4" - 1 <sup>3</sup> /8" by 8ths	ESD11	124102	3/8"	Self-Starting
TiN Coated Step Drills			^	
<sup>1</sup> /4" - <sup>1</sup> /2" by 32nds	ESD01TIN	124119	1/4"	Self-Starting
<sup>3</sup> /16" - 1/2" by 16ths	ESD02TIN	124126	1/4"	Self-Starting
<sup>3</sup> / <sub>16</sub> " - <sup>7</sup> / <sub>8</sub> " by 16ths	ESD03TIN	124133	3/8"	Self-Starting
<sup>1</sup> /4" - <sup>3</sup> /4" by 16ths	ESDO4TIN	124140	3/8"	Self-Starting
<sup>1</sup> /4" - <sup>3</sup> /4" by 16ths	ESD04TIN	124140	3/8"	Self-Starting



#### **STEP DRILL KIT** ESDKIT01 / 124201

This kit offers 4 of the most popular step drill sizes for electrical, automotive and sheet metal applications.

Kit contains: ESD01, ESD03, ESD04, ESD05



#### **DOUBLE CUT AUGER BITS**

Premium double fluted auger bits provide excellent deep boring in wood and nail-embedded wood applications. Precision ground, heat-treated and tempered cutting edges cut through nails. (1) per tube

#### 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
- ▼ 7/Ĭ6" quick change shank allows for use with quick change chuck

BORE DI	IAMETER	SHANK SIZE*	MODEL NUMBER	COMPUTER NUMBER	
INCHES					
36" LENGTH					
<sup>9</sup> /16"	14	7⁄16"	WSAB360562	125178	
5/8"	16	7/16"	WSAB360625	125185	
<sup>11</sup> / <sub>16</sub> "	17	7⁄16"	WSAB360687	125192	
3/4"	19	7/16"	WSAB360750	125239	
<sup>13</sup> /16"	21	7⁄16"	WSAB360812	125246	
7/8"	22	7⁄16"	WSAB360875	125253	
<sup>15</sup> /16"	24	<sup>7</sup> /16"	WSAB360937	125260	
1"	25	7⁄16"	WSAB361000	125277	
<b>1</b> <sup>1</sup> /16"	27	7⁄16"	WSAB361062	125284	
1 1⁄8"	29	7⁄16"	WSAB361125	125291	
18" LENGTH					
3/8"	9.5	<sup>3</sup> /8"	WSAB180375	125505	
7/16"	11	7⁄16"	WSAB180437	125512	
1/2"	13	7⁄16"	WSAB180500	125529	
<sup>9</sup> /16"	14	7/16"	WSAB180562	125536	
5/8"	16	7⁄16"	WSAB180625	125543	
<sup>11</sup> /16"	17	7/16"	WSAB180687	125550	
3/4"	19	7⁄16"	WSAB180750	125567	
<sup>13</sup> /16"	21	7⁄16"	WSAB180812	125574	
7/8"	22	7⁄16"	WSAB180875	125581	
15/16"	24	7⁄16"	WSAB180937	125598	
1"	25	7⁄16"	WSAB181000	125604	
<b>1</b> <sup>1</sup> /16"	27	7⁄16"	WSAB181062	125611	
1 1/8"	29	7⁄16"	WSAB181125	125628	
1 1/4"	32	7⁄16"	WSAB181250	125635	
1 3/8"	35	7/16"	WSAB181375	125642	
1 1/2"	38	7/16"	WSAB181500	125659	



BORE DIAMETER INCHES MM SHANK SIZE \* MODEL NUMBER COMPUTER NUMBER 7-1/2" LENGTH 1/4" 6 1/4" WSAB750250 125772 8 5/16" 5/16" WSAB750312 125789 3/8" 10 <sup>3</sup>/8" WSAB750375 125796 7/16" 11 7/16" 124973 WSAB750437 1/2" 13 7/16" WSAB750500 124980 <sup>9</sup>/16" 14 WSAB750562 124997 7/16" 5/8" 16 7/16" WSAB750625 125666 11/16" 17 7/16" WSAB750687 125673 7/16" WSAB750750 125680 3/4" 19 13/16" 21 7/16" WSAB750812 125697 7/8" 22 7/16" WSAB750875 125703 15/16" 24 7/16" WSAB750937 125710 1" 25 7/16" WSAB751000 125727 1 <sup>1</sup>/8" 7/16" 29 WSAB751125 125734 1 <sup>1</sup>/4" 32 7/16" WSAB751250 125741 1 3/8" 35 7/16" WSAB751375 125758 38 WSAB751500 1 1/2" 7/16" 125765

\* Shanks are designed to work in Fast-Adapt® MQC38 quick change chucks (pg 28) and standard chucks.



#### **AUGER/WOOD BIT FILE**

 $\label{eq:WSAB6STFILE / 125499} \end{tabular}$  These files are designed for sharpening and extending the life of Morse auger and wood bits. Six inch slim taper file with attached wooden handle.

PACKAGING: 1 per tube



**SPADE BITS** 

Wood

V

Plastic

Plywood

Formica

A popular item for boring small holes through wood. Stem works with 1/4" Fast-Adapt®

#### APPLICATIONS

Wood composites

- 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

	100.00				_							
DESCRIPTION		10/BOX		1/CARD		Π	DESCRIPTION		10/BOX		1/CARD	
INCHES	MM	MODEL #	COMP #	MODEL #	COMP #		INCHES	MM	MODEL #	COMP #	MODEL #	COMP #
n	$\sim$	$ \wedge $	$\sim$	$\sim$	$\sim$		$\sim$	$\sim$	$\sim$	$\sim$		$\sim$
1/4"	6mm	WSB250	125000	WSB250C	125307		<sup>13</sup> /16"	21mm	WSB812	125093	WSB812C	125390
5/16"	8mm	WSB312	125017	WSB312C	125314		7/8"	22mm	WSB875	125109	WSB875C	125406
3/8"	10mm	WSB375	125024	WSB375C	125321		<sup>15</sup> /16"	24mm	WSB937	125116	WSB937C	125413
7/16"	11mm	WSB437	125031	WSB437C	125338		1"	25mm	WSB1000	125123	WSB1000C	125420
1/2"	13mm	WSB500	125048	WSB500C	125345		1 <sup>1</sup> /8"	29mm	WSB1125	125130	WSB1125C	125437
<sup>9</sup> /16"	14mm	WSB562	125055	WSB562C	125352		1 <sup>1</sup> /4"	32mm	WSB1250	125147	WSB1250C	125444
5/8"	16mm	WSB625	125062	WSB625C	125369		1 <sup>3</sup> /8"	35mm	WSB1375	125154	WSB1375C	125451
11/16"	17mm	WSB687	125079	WSB687C	125376		1 1/2"	38mm	WSB1500	125161	WSB1500C	125468
3/4"	19mm	WSB750	125086	WSB750C	125383	ľ						
PACKAGIN	PACKAGING: 1 per card. 5 per standard pack											

BENEFITS







www.

BLADE TYPE	APPLICATION
Metal Cutting	Best choice for applications cutting any machinable metal up to $1/4$ " in thickness.
Wood Cutting	Specifically designed for cutting all types of wood, wood composites, and nail-embedded wood.
Wood/Metal Cutting	Best choice for applications involving a variety of materials ranging from wood and plastic, to ferrous and non-ferrous metals.
Demolition Cutting	Specifically designed for rough-in cutting all types of wood, wood composites, and nail-embedded wood.
Automotive Cutting	Optimized for Automotive reclamation/recycling, as well as other automotive modifications requiring metal cutting.
Fire + Rescue Cutting	Preferred by professional firefighters. Specifically designed for automotive extrication.
Plaster Cutting	Designed for cutting drywall, plasterboard, and plaster with wood or metal lath.
Air Saw Blades	Specifically designed for use in pneumatic saws for thin sheet metal applications.
U-Shank	Made for use with pipe clamp recip saws for cutting pipe and metal sections.
Pallet Dismantling	Specifically designed for pallet recycling.
Carbide Grit	The best design for cutting materials too thin, hard, or abrasive for conventional carbide tipped or bi-metal blades.
Diamond Grit	Specifically designed for the commercial or residential cutting of ceramics, granites, and stone.
Carbide Tipped	Best for abrasive material applications that still require the cutting action and chip clearing capacity of gullets for speed of cut.
Jab Saws	Heavy duty, ergonomic handle to use with either a reciprocating or a hack saw blade.

## **RECIPROCATING SAW BLADES**



#### **CARBIDE TIPPED RECIPROCATING SAW BLADES** The ALL NEW Morse CTR Recip is the best choice for thick metal cutting applications between 3/16" and 1/2". This high performance blade provides longer cutting life over traditional bi-metal blades.

GRADE ARBEET

#### APPLICATIONS

- ▼ Cast Iron
- ▼ Threaded Rod
- Emt Conduit
- ▼ Stainless Steel
- ▼ Steel Plate
- ▼ Non-Ferrous Metal
  - Non-Ferrous Metal

#### 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
- ▼ Available in 4", 6" and 9" lengths

ΤΡΙ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	QUANTITY PER PKG.	PACKAGE TYPE
$\overline{\gamma}$	$\mathcal{N}$	$\sim$	m	$\sim$	$\mathcal{N}$	nn	m	M	$\sim$	$\overline{\mathcal{N}}$
8	4"	1"	0.050	102	25	1.3	CTR408MC1	405201	1	Card
8	6"	1"	0.050	152	25	1.3	CTR608MC1	405218	1	Card
8	9"	1"	0.050	229	25	1.3	CTR908MC1	405225	1	Card

▼ Rubber

▼ Rebar

▼

Steel Studs

Black Iron Pipe

▼ Angle Iron

▼ Metal Alloys







# **RECIPROCATING SAW BLADES**

RBAC914 BI-METAL

E



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#### 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

ΤΡΙ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	QUANTITY PER PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	m	$\sim$	$\sim$	nn	$\sim$	n	m	$\sim$
10	6"	3/4"	0.035	152mm	20	0.9	RBAC610T05	405409	5	Card
14	6"	3/4"	0.035	152mm	20	0.9	RBAC614T05	405416	5	Card
18	6"	3/4"	0.035	152mm	20	0.9	RBAC618T05	405423	5	Card
10	9"	3/4"	0.035	229mm	20	0.9	RBAC910T05	405430	5	Card
14	9"	3/4"	0.035	229mm	20	0.9	RBAC914T05	405447	5	Card
18	9"	3/4"	0.035	229mm	20	0.9	RBAC918T05	405454	5	Card
10	12"	3/4"	0.035	305mm	20	0.9	RBAC1210T05	405461	5	Card
14	12"	3/4"	0.035	305mm	20	0.9	RBAC1214T05	405478	5	Card
18	12"	3/4"	0.035	305mm	20	0.9	RBAC1218T05	405485	5	Card







#### Morse MASTER COBALT

#### **MASTER COBALT® WOOD RECIPROCATING SAW BLADES**

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 .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	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	nn	$\sim$	m	$\sim$	$\sim$
6	6"	3/4"	0.035	152	20	0.9	RB63506T05	400190	5	Card
6	6"	3/4"	0.035	152	20	0.9	RB63506T15	398404	15	Tube
6	6"	3/4"	0.035	152	20	0.9	RB63506T25	398718	25	Tube
6	6"	3/4"	0.035	152	20	0.9	RB63506T50	400183	50	Tube
6	6"	3/4"	0.050	152	20	1.3	RB65006C2	397339	2	Card
6	6"	3/4"	0.050	152	20	1.3	RB65006T05	402040	5	Card
6	6"	3/4"	0.050	152	20	1.3	RB65006T25	398732	25	Tube
6	6"	3/4"	0.050	152	20	1.3	RB65006T50	402057	50	Tube
6	6"	7/16"	0.050	152	12	1.3	RB65006CT05	399517	5	Card
6	6"	7/16"	0.050	152	12	1.3	RB65006CT50	399500	50	Tube
6	9"	3/4"	0.035	229	20	0.9	RB93506T05	400176	5	Card
6	9"	3/4"	0.035	229	20	0.9	RB93506T50	400169	50	Tube
6	9"	3/4"	0.050	229	20	1.3	RB95006C2	397391	2	Card
6	9"	3/4"	0.050	229	20	1.3	RB95006T05	402026	5	Card
6	9"	3/4"	0.050	229	20	1.3	RB95006T25	398794	25	Tube
6	9"	3/4"	0.050	229	20	1.3	RB95006T50	402033	50	Tube
6	12"	3/4"	0.035	305	20	0.9	RB123506T50	400145	50	Tube
6	12"	3/4"	0.035	305	20	0.9	RB123506T05	400152	5	Card
6	12"	3/4"	0.050	305	20	1.3	RB125006C	402286	1	Card
6	12"	3/4"	0.050	305	20	1.3	RB125006T05	402156	5	Card
6	12"	3/4"	0.050	305	20	1.3	RB125006T25	398633	25	Tube
6	12"	3/4"	0.050	305	20	1.3	RB125006T50	402149	50	Tube
2/3	12"	3/4"	0.050	305	20	1.3	RB125023T05	401593	5	Card
2/3	12"	3/4"	0.050	305	20	1.3	RB125023T50	401616	50	Tube
5/8	6"	3/4"	0.050	152	20	1.3	RB65058T05	398510	5	Card
5/8	6"	3/4"	0.050	152	20	1.3	RB65058T50	398503	50	Tube
5/8	12"	3/4"	0.050	305	20	1.3	RB125058T50	398442	50	Tube

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# **RECIPROCATING SAW BLADES**



#### Morse MASTER COBALT.

#### MASTER COBALT® METAL RECIPROCATING SAW BLADES

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

- ullet 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

ТРІ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
m	$\sim$	$\sim$	$\gamma\gamma\gamma$	$\sim$	$\sim$	nn	$\sim$	m	$\sim$	$\sim$
14	4"	3/4"	0.035	102	20	0.9	RB414T05	400237	5	Card
14	4"	3/4"	0.035	102	20	0.9	RB414T50	400220	50	Tube
14	6"	3/4"	0.035	152	20	0.9	RB614C2	397308	2	Card
14	6"	3/4"	0.035	152	20	0.9	RB614T05	400411	5	Card
14	6"	3/4"	0.035	152	20	0.9	RB614T15	398381	15	Tube
14	6"	3/4"	0.035	152	20	0.9	RB614T25	398671	25	Tube
14	6"	3/4"	0.035	152	20	0.9	RB614T50	400404	50	Tube
14	6"	1"	0.042	152	25	1.1	RB64214T05	404181	5	Card
14	6"	1"	0.042	152	25	1.1	RB64214T25	404198	25	Tube
14	6"	3/4"	0.050	152	20	1.3	RB65014T05	399623	5	Card
14	6"	3/4"	0.050	152	20	1.3	RB65014T50	399616	50	Tube
14	8"	3/4"	0.035	203	20	0.9	RB814C2	397377	2	Card
14	8"	3/4"	0.035	203	20	0.9	RB814T05	400497	5	Card
14	8"	3/4"	0.035	203	20	0.9	RB814T25	398763	25	Tube
14	8"	3/4"	0.035	203	20	0.9	RB814T50	400480	50	Tube
14	9"	3/4"	0.035	229	20	0.9	RB914T05	400985	5	Card
14	9"	3/4"	0.035	229	20	0.9	RB914T50	400992	50	Tube
14	9"	1"	0.042	229	25	1.1	RB94214T05	403900	5	Card
14	9"	1"	0.042	229	25	1.1	RB94214T25	403917	25	Tube
14	9"	1"	0.050	229	25	1.3	RB95014T05	404327	5	Card
14	9"	1"	0.050	229	25	1.3	RB95014T25	404334	25	Tube
14	12"	3/4"	0.035	305	20	0.9	RB1214T05	400138	5	Card
14	12"	3/4"	0.035	305	20	0.9	RB1214T50	400121	50	Tube
14	12"	1"	0.042	305	25	1.1	RB124214T05	403962	5	Card
14	12"	1"	0.042	305	25	1.1	RB124214T25	403979	25	Tube
14	12"	1"	0.050	305	25	1.3	RB125014T05	404266	5	Card
14	12"	1"	0.050	305	25	1.3	RB125014T25	404273	25	Tube
трі	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	QUANTITY PER PKG.	PACKAGE TYPE
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m	$\sim$	$\sim$	m	$\sim$	$\sim$	m	$\sim$	m		$\sim$
18	3"	5/16"	0.035	76	6	0.9	RB318ST05	401999	5	Card
18	3"	5/16"	0.035	76	6	0.9	RB318ST50	401982	50	Tube
18	4"	3/4"	0.035	102	20	0.9	RB418C2	397247	2	Card
18	4"	3/4"	0.035	102	20	0.9	RB418T05	400275	5	Card
18	4"	3/4"	0.035	102	20	0.9	RB418T50	400268	50	Tube
18	6"	3/4"	0.035	152	20	0.9	RB618C2	397315	2	Card
18	6"	3/4"	0.035	152	20	0.9	RB618T05	400435	5	Card
18	6"	3/4"	0.035	152	20	0.9	RB618T15	398398	15	Tube
18	6"	3/4"	0.035	152	20	0.9	RB618T25	398688	25	Tube
18	6"	3/4"	0.035	152	20	0.9	RB618T50	400428	50	Tube
18	6"	1"	0.042	152	25	1.1	RB64218T05	404204	5	Card
18	6"	1"	0.042	152	25	1.1	RB64218T25	404211	25	Tube
18	6"	3/4"	0.050	152	20	1.3	RB65018T05	399647	5	Card
18	6"	3/4"	0.050	152	20	1.3	RB65018T50	399630	50	Tube
18	8"	3/4"	0.035	203	20	0.9	RB818T05	402590	5	Card
18	8"	3/4"	0.035	203	20	0.9	RB818T25	398770	25	Tube
18	8"	3/4"	0.035	203	20	0.9	RB818T50	402583	50	Tube
18	9"	3/4"	0.035	229	20	0.9	RB918T05	401005	5	Card
18	9"	3/4"	0.035	229	20	0.9	RB918T50	401012	50	Tube
18	9"	1"	0.042	229	25	1.1	RB94218T05	403924	5	Card
18	9"	1"	0.042	229	25	1.1	RB94218T25	403931	25	Tube
18	9"	1"	0.050	229	25	1.3	RB95018T05	404341	5	Card
18	9"	1"	0.050	229	25	1.3	RB95018T25	404358	25	Tube
18	10"	3/4"	0.035	254	20	0.9	RB1018T05	398497	5	Card
18	10"	3/4"	0.035	254	20	0.9	RB1018T50	398480	50	Tube
18	12"	3/4"	0.035	305	20	0.9	RB1218T05	400213	5	Card
18	12"	3/4"	0.035	305	20	0.9	RB1218T25	398619	25	Tube
18	12"	3/4"	0.035	305	20	0.9	RB1218T50	400206	50	Tube
18	12"	1"	0.042	305	25	1.1	RB124218T05	403986	5	Card
18	12"	1"	0.042	305	25	1.1	RB124218T25	403993	25	Tube
18	12"	1"	0.050	305	25	1.3	RB125018T05	404280	5	Card
18	12"	1"	0.050	305	25	1.3	RB125018T25	404297	25	Tube
24	4"	3/4"	0.035	102	20	0.9	RB424T05	400312	5	Card
24	4"	3/4"	0.035	102	20	0.9	RB424T50	400305	50	Tube
24	6"	3/4"	0.035	152	20	0.9	RB624C2	397322	2	Card
24	6"	3/4"	0.035	152	20	0.9	RB624T05	400459	5	Card
24	6"	3/4"	0.035	152	20	0.9	RB624T25	398701	25	Tube
24	6"	3/4"	0.035	152	20	0.9	RB624T50	400442	50	Tube
24	6"	1"	0.042	152	25	1.1	RB64224T05	404228	5	Card
24	6"	1"	0.042	152	25	1.1	RB64224T25	404235	25	Tube



#### MASTER COBALT® WOOD/METAL RECIPROCATING SAW BLADES

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

ТРІ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
hn	$\sim$	$\sim$	m	$\sim$	$\sim$	m	n	n	m	$\sim$
10	6"	3/4"	0.035	152	20	0.9	RB610C2	397285	2	Card
10	6"	3/4"	0.035	152	20	0.9	RB610T05	400398	5	Card
10	6"	3/4"	0.035	152	20	0.9	RB610T25	398664	25	Tube
10	6"	3/4"	0.035	152	20	0.9	RB610T50	400381	50	Tube
10	8"	3/4"	0.035	203	20	0.9	RB810T05	400473	5	Card
10	9"	1"	0.050	229	25	1.3	RB95010T05	404303	5	Card
10	9"	1"	0.050	229	25	1.3	RB95010T25	404310	25	Tube
10	10"	3/4"	0.035	254	20	0.9	RB1010T05	402576	5	Card
10	10"	3/4"	0.035	254	20	0.9	RB1010T50	402569	50	Tube
10	12"	3/4"	0.035	305	20	0.9	RB1210T05	400251	5	Card
10	12"	3/4"	0.035	305	20	0.9	RB1210T50	400244	50	Tube
10	12"	1"	0.050	305	25	1.3	RB125010T05	404242	5	Card
10	12"	1"	0.050	305	25	1.3	RB125010T25	404259	25	Tube
8/12	8"	3/4"	0.050	203	20	1.3	RB850812T05	400930	5	Card
8/12	8"	3/4"	0.050	203	20	1.3	RB850812T50	400947	50	Tube
8/12	12"	3/4"	0.050	305	20	1.3	RB1250812T05	400916	5	Card
8/12	12"	3/4"	0.050	305	20	1.3	RB1250812T50	400923	50	Tube
10/14	4"	3/4"	0.035	102	20	0.9	RB41014T05	402613	5	Card
10/14	4"	3/4"	0.035	102	20	0.9	RB41014T50	402606	50	Tube
10/14	6"	3/4"	0.035	152	20	0.9	RB61014T05	402002	5	Card
10/14	6"	3/4"	0.035	152	20	0.9	RB61014T50	402019	50	Tube
10/14	6"	3/4"	0.050	152	20	1.3	RB6501014C2	397360	2	Card
10/14	6"	3/4"	0.050	152	20	1.3	RB6501014T05	399234	5	Card
10/14	6"	3/4"	0.050	152	20	1.3	RB6501014T50	399227	50	Tube
10/14	6"	3/4"	0.050	152	20	1.3	RB6501014TT05	398541	5	Card
10/14	6"	3/4"	0.050	152	20	1.3	RB6501014TT50	398534	50	Tube
10/14	8"	3/4"	0.035	203	20	0.9	RB81014C2	397407	2	Card

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TPI	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
hn	$\sim$	$\sim$	m	$\sim$	$\sim$	$\sim$	mm	m		$\sim$
10/14	8"	3/4"	0.035	203	20	0.9	RB81014T05	402118	5	Card
10/14	8"	3/4"	0.035	203	20	0.9	RB81014T15	398411	15	Tube
10/14	8"	3/4"	0.035	203	20	0.9	RB81014T25	398756	25	Tube
10/14	8"	3/4"	0.035	203	20	0.9	RB81014T50	402101	50	Tube
10/14	8"	3/4"	0.050	203	20	1.3	RB8501014C2	397384	2	Card
10/14	8"	3/4"	0.050	203	20	1.3	RB8501014T05	402071	5	Card
10/14	8"	3/4"	0.050	203	20	1.3	RB8501014T50	402064	50	Tube
10/14	12"	3/4"	0.035	305	20	0.9	RB121014T05	400114	5	Card
10/14	12"	3/4"	0.035	305	20	0.9	RB121014T50	400107	50	Tube
10/14	12"	3/4"	0.050	305	20	1.3	RB12501014C	402248	1	Card
10/14	12"	3/4"	0.050	305	20	1.3	RB12501014T05	402095	5	Card
10/14	12"	3/4"	0.050	305	20	1.3	RB12501014T25	398640	25	Tube
10/14	12"	3/4"	0.050	305	20	1.3	RB12501014T50	402088	50	Tube
10/14	12"	3/4"	0.050	305	20	1.3	RB12501014STT05	398435	5	Card
10/14	12"	3/4"	0.050	305	20	1.3	RB12501014STT50	398428	50	Tube



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#### ADVANCED EDGE BOLT® RECIPROCATING SAW BLADES

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 accept heavier feed pressure
- ▼ Smooth cutting action
- ▼ Fast cutting
- ▼ Impact resistant teeth
- ▼ Long cutting life
- ▼ Heat and wear resistant

трі	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
m	$\sim$	$\sim$	$\sim$	$\sim$	$\mathcal{N}$	$\sim$	m	M	$\sim$	$\sim$
8/11	6"	3/4"	0.035	152	20	0.9	RBAE6811T05	393003	5	Card
8/11	6"	3/4"	0.035	152	20	0.9	RBAE6811T50	393010	50	Tube
8/11	6"	3/4"	0.050	152	20	1.3	RBAE650811T05	393188	5	Card
8/11	6"	3/4"	0.050	152	20	1.3	RBAE650811T50	393195	50	Tube
8/11	9"	3/4"	0.035	229	20	0.9	RBAE9811T05	393065	5	Card
8/11	9"	3/4"	0.035	229	20	0.9	RBAE9811T50	393072	50	Tube
8/11	9"	3/4"	0.050	229	20	1.3	RBAE950811T05	393249	5	Card
8/11	9"	3/4"	0.050	229	20	1.3	RBAE950811T50	393256	50	Tube
8/11	12"	3/4"	0.035	305	20	0.9	RBAE12811T05	393126	5	Card
8/11	12"	3/4"	0.035	305	20	0.9	RBAE12811T50	393133	50	Tube
8/11	12"	3/4"	0.050	305	20	1.3	RBAE1250811T05	393300	5	Card
8/11	12"	3/4"	0.050	305	20	1.3	RBAE1250811T50	393317	50	Tube
11/15	6"	3/4"	0.035	152	20	0.9	RBAE61115T05	393027	5	Card
11/15	6"	3/4"	0.035	152	20	0.9	RBAE61115T50	393034	50	Tube
11/15	6"	3/4"	0.050	152	20	1.3	RBAE6501115T05	393201	5	Card
11/15	6"	3/4"	0.050	152	20	1.3	RBAE6501115T50	393218	50	Tube
11/15	9"	3/4"	0.035	229	20	0.9	RBAE91115T05	393089	5	Card
11/15	9"	3/4"	0.035	229	20	0.9	RBAE91115T50	393096	50	Tube
11/15	9"	3/4"	0.050	229	20	1.3	RBAE9501115T05	393263	5	Card
11/15	9"	3/4"	0.050	229	20	1.3	RBAE9501115T50	393270	50	Tube
11/15	12"	3/4"	0.035	305	20	0.9	RBAE121115T05	393140	5	Card
11/15	12"	3/4"	0.035	305	20	0.9	RBAE121115T50	393157	50	Tube
11/15	12"	3/4"	0.050	305	20	1.3	RBAE12501115T05	393324	5	Card
11/15	12"	3/4"	0.050	305	20	1.3	RBAE12501115T50	393331	50	Tube
15/21	6"	3/4"	0.035	152	20	0.9	RBAE61521T05	393041	5	Card
15/21	6"	3/4"	0.035	152	20	0.9	RBAE61521T50	393058	50	Tube

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ТРІ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
hn	$\mathcal{N}$	$\mathcal{N}$		$\overline{\mathcal{N}}$	$\mathcal{N}$	m	mm	n	m	$\sim$
15/21	6"	3/4"	0.050	152	20	1.3	RBAE6501521T05	393225	5	Card
15/21	6"	3/4"	0.050	152	20	1.3	RBAE6501521T50	393232	50	Tube
15/21	9"	3/4"	0.035	229	20	0.9	RBAE91521T05	393102	5	Card
15/21	9"	3/4"	0.035	229	20	0.9	RBAE91521T50	393119	50	Tube
15/21	9"	3/4"	0.050	229	20	1.3	RBAE9501521T05	393287	5	Card
15/21	9"	3/4"	0.050	229	20	1.3	RBAE9501521T50	393294	50	Tube
15/21	12"	3/4"	0.035	305	20	0.9	RBAE121521T05	393164	5	Card
15/21	12"	3/4"	0.035	305	20	0.9	RBAE121521T50	393171	50	Tube
15/21	12"	3/4"	0.050	305	20	1.3	RBAE12501521T05	393348	5	Card
15/21	12"	3/4"	0.050	305	20	1.3	RBAE12501521T50	393355	50	Tube



DWER/



#### ADVANCED EDGE POWER® RECIPROCATING SAW BLADES

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**

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

#### BENEFITS

9" 14TPI BI-METAL

- ▼ 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	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	W	m	mm	m	$\sim$	$\sim$
10	6"	1"	0.042	152	25	1.1	RBWP64210T05	392006	5	Card
10	6"	1"	0.042	152	25	1.1	RBWP64210T25	392013	25	Tube
10	9"	1"	0.042	229	25	1.1	RBWP94210T05	392068	5	Card
10	9"	1"	0.042	229	25	1.1	RBWP94210T25	392075	25	Tube
10	12"	1"	0.042	305	25	1.1	RBWP124210T05	392129	5	Card
10	12"	1"	0.042	305	25	1.1	RBWP124210T25	392136	25	Tube
14	6"	1"	0.042	152	25	1.1	RBWP64214T05	392020	5	Card
14	6"	1"	0.042	152	25	1.1	RBWP64214T25	392037	25	Tube
14	9"	1"	0.042	229	25	1.1	RBWP94214T05	392082	5	Card
14	9"	1"	0.042	229	25	1.1	RBWP94214T25	392099	25	Tube
14	12"	1"	0.042	305	25	1.1	RBWP124214T05	392143	5	Card
14	12"	1"	0.042	305	25	1.1	RBWP124214T25	392150	25	Tube
18	6"	1"	0.042	152	25	1.1	RBWP64218T05	392044	5	Card
18	6"	1"	0.042	152	25	1.1	RBWP64218T25	392051	25	Tube
18	9"	1"	0.042	229	25	1.1	RBWP94218T05	392105	5	Card
18	9"	1"	0.042	229	25	1.1	RBWP94218T25	392112	25	Tube
18	12"	1"	0.042	305	25	1.1	RBWP124218T05	392167	5	Card
18	12"	1"	0.042	305	25	1.1	RBWP124218T25	392174	25	Tube











#### **HAVOC® RECIPROCATING SAW BLADES**

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**

New Having Care

- 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	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	QUANTITY PER PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$		$\sim$	$\sim$	m	mm	N	n	$\sim$
6	6"	7/8"	0.062	152	22	1.6	RB66206T03	398350	3	
6	6"	7/8"	0.062	152	22	1.6	RB66206T20	398343	20	Tube
6	9"	7/8"	0.062	229	22	1.6	RB96206C	397186	1	Card
6	9"	7/8"	0.062	229	22	1.6	RB96206T03	402422	3	Card
6	9"	7/8"	0.062	229	22	1.6	RB96206T20	402415	20	Tube
6	12"	7/8"	0.062	305	22	1.6	RB126206C	397209	1	Card
6	12"	7/8"	0.062	305	22	1.6	RB126206T03	398312	3	Card
6	12"	7/8"	0.062	305	22	1.6	RB126206T20	398305	20	Tube
10	6"	7/8"	0.062	152	22	1.6	RB66210T03	398374	3	Card
10	6"	7/8"	0.062	152	22	1.6	RB66210T20	398367	20	Tube
10	9"	7/8"	0.062	229	22	1.6	RB96210T03	402446	3	Card
10	9"	7/8"	0.062	229	22	1.6	RB96210T20	402439	20	Tube
10	12"	7/8"	0.062	305	22	1.6	RB126210T03	398336	3	Card
10	12"	7/8"	0.062	305	22	1.6	RB126210T20	398329	20	Tube





#### **RENOVATOR® RECIPROCATING SAW BLADES**

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

ТРІ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	nn	$\sim$	$\mathcal{N}$	$\sim$	$\sim$
8/11	6"	1"	0.062	152	25	1.6	RBR662811TO3	392518	3	Card
8/11	6"	1"	0.062	152	25	1.6	RBR662811T20	392525	20	Tube
8/11	9"	1"	0.062	229	25	1.6	RBR962811TO3	392532	3	Card
8/11	9"	1"	0.062	229	25	1.6	RBR962811T20	392549	20	Tube
8/11	12"	1"	0.062	305	25	1.6	RBR1262811TO3	392556	3	Card
8/11	12"	1"	0.062	305	25	1.6	RBR1262811T20	392563	20	Tube







#### **AUTO SALVAGE RECIPROCATING SAW BLADES**

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 3/4" (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
- ▼ 3/4" (20mm) wide blades provide flexibility
- Allows for cutting in hard to reach places that a cutting torch would otherwise create more damage
- ▼ Smooth cutting action
- Long cutting life
- Heat and wear resistant

TPI	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	nn	$\sim$	$\mathcal{N}$	$\sim$	$\sim$
14	6"	3/4"	0.035	152	20	0.9	RBSA614T05	395519	5	Card
14	6"	3/4"	0.035	152	20	0.9	RBSA614T50	395526	50	Tube
14	8"	3/4"	0.035	203	20	0.9	RBSA814T05	395557	5	Card
14	8"	3/4"	0.035	203	20	0.9	RBSA814T50	395564	50	Tube
14	12"	3/4"	0.035	305	20	0.9	RBSA1214T05	395595	5	Card
14	12"	3/4"	0.035	305	20	0.9	RBSA1214T50	395601	50	Tube
18	6"	3/4"	0.035	152	20	0.9	RBSA618T05	395533	5	Card
18	6"	3/4"	0.035	152	20	0.9	RBSA618T50	395540	50	Tube
18	8"	3/4"	0.035	203	20	0.9	RBSA818T05	395571	5	Card
18	8"	3/4"	0.035	203	20	0.9	RBSA818T50	395588	50	Tube
18	12"	3/4"	0.035	305	20	0.9	RBSA1218TO5	395632	5	Card
18	12"	3/4"	0.035	305	20	0.9	RBSA1218T50	395649	50	Tube
10/14	12"	3/4"	0.035	305	20	0.9	RBSA121014T05	395618	5	Card
10/14	12"	3/4"	0.035	305	20	0.9	RBSA121014T50	395625	50	Tube





#### **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**

3" - 14 TPI

PIEA89

- ▼ Available in .025" and .035" thickness
- ▼ Blade widths of 1/2"
- ▼ Straight tooth pitch
- ▼ Bi-metal construction

#### BENEFITS

- Cut between body panels and under stripped/rusted fasteners
- ▼ 1/2" wide blades provide flexibility for radius cuts
- ▼ Smooth cutting action
- ▼ Long cutting life
- ▼ Heat and wear resistant

TPI	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
n	m	$\sim$	m	$\sim$	$\sim$	m	n	m		$\sim$
10	3-5/8"	1/2"	0.025	92	12.7	0.6	RBA3610T25	399128	25	Tube
10	4"	1/2"	0.025	102	12.7	0.6	RBA410T25	396967	25	Tube
14	3"	1/2"	0.025	76	12.7	0.6	RBA314T05	398220	5	Card
14	3"	1/2"	0.025	76	12.7	0.6	RBA314T25	398572	25	Tube
14	3"	1/2"	0.035	76	12.7	0.9	RBA33514T05	396806	5	Card
14	3"	1/2"	0.035	76	12.7	0.9	RBA33514T25	396882	25	Tube
14	3-5/8"	1/2"	0.025	92	12.7	0.6	RBA3614T25	399135	25	Tube
14	4"	1/2"	0.025	102	12.7	0.6	RBA414T05	397506	5	Card
14	4"	1/2"	0.025	102	12.7	0.6	RBA414T25	397513	25	Tube
14	4"	1/2"	0.035	102	12.7	0.9	RBA43514T05	396844	5	Card
14	4"	1/2"	0.035	102	12.7	0.9	RBA43514T25	396929	25	Tube
18	3"	1/2"	0.025	76	12.7	0.6	RBA318T05	398244	5	Card
18	3"	1/2"	0.025	76	12.7	0.6	RBA318T25	398589	25	Tube
18	3"	1/2"	0.035	76	12.7	0.9	RBA33518T05	396813	5	Card
18	3"	1/2"	0.035	76	12.7	0.9	RBA33518T25	396899	25	Tube
18	3-5/8"	1/2"	0.025	92	12.7	0.6	RBA3618T25	399142	25	Tube
18	4"	1/2"	0.025	102	12.7	0.6	RBA418T05	397520	5	Card
18	4"	1/2"	0.025	102	12.7	0.6	RBA418T25	397537	25	Tube
18	4"	1/2"	0.035	102	12.7	0.9	RBA43518T05	396851	5	Card
18	4"	1/2"	0.035	102	12.7	0.9	RBA43518T25	396936	25	Tube
24	3"	1/2"	0.025	76	12.7	O.6	RBA324T05	398268	5	Card
24	3"	1/2"	0.025	76	12.7	0.6	RBA324T25	398596	25	Tube
24	3"	1/2"	0.035	76	12.7	0.9	RBA33524T05	396820	5	Card
24	3"	1/2"	0.035	76	12.7	0.9	RBA33524T25	396905	25	Tube
24	3-5/8"	1/2"	0.025	92	12.7	0.6	RBA3624T25	399159	25	Tube
24	4"	1/2"	0.025	102	12.7	0.6	RBA424T05	397544	5	Card

ТРІ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
hn	m	$\sim$	$\sim$	$\sim$	$\sim$	vn	$\sim$	m	$\sim$	$\sim$
24	4"	1/2"	0.025	102	12.7	0.6	RBA424T25	397551	25	Tube
24	4"	1/2"	0.035	102	12.7	0.9	RBA43524T05	396868	5	Card
24	4"	1/2"	0.035	102	12.7	0.9	RBA43524T25	396943	25	Tube
32	3"	1/2"	0.025	76	12.7	0.6	RBA332T05	398282	5	Card
32	3"	1/2"	0.025	76	12.7	0.6	RBA332T25	398602	25	Tube
32	3"	1/2"	0.035	76	12.7	0.9	RBA33532T05	396837	5	Card
32	3"	1/2"	0.035	76	12.7	0.9	RBA33532T25	396912	25	Tube
32	4"	1/2"	0.025	102	12.7	0.6	RBA432T05	397568	5	Card
32	4"	1/2"	0.025	102	12.7	0.6	RBA432T25	397575	25	Tube
32	4"	1/2"	0.035	102	12.7	0.9	RBA43532T05	396875	5	Card
32	4"	1/2"	0.035	102	12.7	0.9	RBA43532T25	396950	25	Tube





**PIPE BOSS® RECIPROCATING SAW BLADES** 

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**

- T 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	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	QUANTITY PER PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	m	$\sim$	$\sim$	m	nnn	M	n	$\sim$
14	6"	1"	0.050	152	25	1.30	RBPB65014T05	395014	5	Card
14	6"	1"	0.050	152	25	1.30	RBPB65014T25	395021	25	Tube
14	9"	1"	0.050	229	25	1.30	RBPB95014T05	395038	5	Card
14	9"	1"	0.050	229	25	1.30	RBPB95014T25	395045	25	Tube
14	12"	1"	0.050	305	25	1.30	RBPB125014T05	395052	5	Card
14	12"	1"	0.050	305	25	1.30	RBPB125014T25	395069	25	Tube









#### Morse FIREFRESCUE

#### FIRE + RESCUE RECIPROCATING SAW BLADES

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.

- ▼ Available in .062" thickness
- ▼ Available in 7/8" blade width
- ▼ Straight tooth pitch

**FEATURES** 

- ▼ 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	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	QUANTITY PER PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	m	$\sim$	$\sim$	m	nn	M	n	$\sim$
10	6"	7/8"	0.062	152	22	1.6	RBFR66210WT03	403665	3	Card
10	6"	7/8"	0.062	152	22	1.6	RBFR66210WT20	403511	20	Tube
10	9"	7/8"	0.062	229	22	1.6	RBFR96210WT03	403689	3	Card
10	9"	7/8"	0.062	229	22	1.6	RBFR96210WT20	403528	20	Tube
10	12"	7/8"	0.062	305	22	1.6	RBFR126210WT03	403702	3	Card
10	12"	7/8"	0.062	305	22	1.6	RBFR126210WT20	403504	20	Tube
14	6"	7/8"	0.062	152	22	1.6	RBFR66214WC	397117	1	Card
14	6"	7/8"	0.062	152	22	1.6	RBFR66214WT03	403672	3	Card
14	6"	7/8"	0.062	152	22	1.6	RBFR66214WT20	403542	20	Tube
14	9"	7/8"	0.062	229	22	1.6	RBFR96214WC	397131	1	Card
14	9"	7/8"	0.062	229	22	1.6	RBFR96214WTO3	403696	З	Card
14	9"	7/8"	0.062	229	22	1.6	RBFR96214WT20	403559	20	Tube
14	12"	7/8"	0.062	305	22	1.6	RBFR126214WC	397155	1	Card
14	12"	7/8"	0.062	305	22	1.6	RBFR126214WTO3	403719	3	Card
14	12"	7/8"	0.062	305	22	1.6	RBFR126214WT20	403535	20	Tube





	SE PLASTE	
	TP -	
	Morse PLASTER Plaster / Lath & Drywall Cutting	<b>PLASTER RECIPROCATING SAW BLADES</b> 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.
UNICA UNICAL	FEATURES	BENEFITS
Manse PL	<ul> <li>Available in .050" thickness</li> <li>Blade width of 3/4"</li> <li>Special "V" tooth design</li> <li>Bi-metal construction</li> </ul>	<ul> <li>.050" blades for increased rigidity and heavier feed pressures</li> <li>3/4" wide blades provide flexibility</li> <li>Cuts in both directions</li> <li>Long cutting life</li> <li>Heat and wear resistant</li> </ul>

161	LENGTH		IIIIOKNESS	[MM]	[MM]	[MM]	MODEL #		PER PKG.	TYPE
$\sim$	$\sim$	$\sim$	m	$\sim$	$\sim$	m	nn	m	m	$\sim$
6	6"	3/4"	0.05	152	20	1.3	RB606PT05	400350	5	Card
6	6"	3/4"	0.05	152	20	1.3	RB606PT50	400343	50	Tube



#### U-SHANK RECIPROCATING SAW BLADES

The Morse U-SHANK reciprocating saw blade is deisgned 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", .050" and .062" thickness
   Blade widths of 1"
- ▼ Coarse and fine tooth pitches
- ▼ Bi-metal construction

#### BENEFITS

- ▼ .035" blades for flexibility in tight spaces
- .050" blades for straighter cuts
   1" wide blades provide more rigidity and Foundation of the strength
   Coarse/Plastic Fine/Metal
- Long cutting life
   Heat and wear resistant

TPI	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	m	$\sim$	$\sim$	m	nnn	M	m	$\sim$
6	12"	1"	0.050	305	25	1.3	RBU1206T05	403641	5	Tube
8	5.5"	1"	0.062	140	25	1.6	RBU5508T05	400015	5	Tube
8	8"	1"	0.062	203	25	1.6	RBU808T05	400053	5	Tube
8	10.5"	1"	0.062	269	25	1.6	RBU10508T05	399975	5	Tube
8	12"	1"	0.062	305	25	1.6	RBU1208T05	403610	5	Tube
14	5.5"	1"	0.035	140	25	0.9	RBU5514T05	400039	5	Tube
14	8"	1"	0.035	203	25	0.9	RBU814T05	400077	5	Tube
14	12"	1"	0.035	305	25	0.9	RBU1214T05	403627	5	Tube

# DIAMONDGRIT

AMONDGRIT

#### DIAMOND GRIT® RECIPROCATING SAW BLADES

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

ТРІ	LENGTH	WIDTH	GRIT	LENGTH [MM]	WIDTH [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	m	m	m	mm	nn	n	$\sim$
DG	6"	3/4"	Coarse	152	20	RBDG6C	129701	1	Card
DG	9"	3/4"	Coarse	229	20	RBDG9C	129718	1	Card







#### **CARBIDE GRIT RECIPROCATING SAW BLADES**

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

BALLET

▼ Round nose design

▼ Straight tooth pitch

**FEATURES** 

Narrow kerf

**ISMANTLER** 

▼ Available in 3/4" width by .035" thickness

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

TPI	LENGTH	WIDTH	GRIT	LENGTH [MM]	WIDTH [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	m	$\sim$	nn	$\sim$	m	mm	n	m	$\sim$
Grit	4"	3/4"	Coarse	102	20	RCTCG4	402750	1	Card
Grit	4"	3/4"	Coarse	102	20	RTCG4TO3	403368	3	Card
Grit	4"	3/4"	Coarse	102	20	RTCG4T25	402910	25	Tube
Grit	6"	3/4"	Coarse	152	20	RCTCG6	402767	1	Card
Grit	6"	3/4"	Coarse	152	20	RTCG6TO3	403375	3	Card
Grit	6"	3/4"	Coarse	152	20	RTCG6T25	402927	25	Tube
Grit	8"	3/4"	Coarse	203	20	RCTCG8	402774	1	Card
Grit	8"	3/4"	Coarse	203	20	RTCG8TO3	403382	3	Card
Grit	8"	3/4"	Coarse	203	20	RTCG8T25	402934	25	Tube



#### PALLET DISMANTLER **RECIPROCATING SAW BLADES**

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

#### 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	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	m	nnn	n	$\sim$	$\sim$
10	8"	3/4"	0.035	203	20	0.9	RB810RRPB500	401425	500	Box
10	9"	3/4"	0.035	229	20	0.9	RB910RRPB250	401661	250	Box
10	10"	3/4"	0.035	254	20	0.9	RB1010RRB250	401463	250	Box





#### CARBIDE TIPPED RECIPROCATING SAW BLADES

The Morse CARBIDE TIPPED reciprocating saw blade is best for abrasive material applications that still require the cutting action and chip clearing capacity of gullets for speed of cut. Applications such as wood composites (particle board), nail free wood, plastics, non-ferrous metals (aluminum), and fiberglass.

#### **FEATURES**

- ▼ Available in 3/4" width by .050" thickness
- ▼ Coarse, ground teeth
- ▼ Carbide tooth tips
- Narrow kerf

#### BENEFITS

- ▼ Durable, straighter cuts
- ▼ Aggressive, fast cutting
- ▼ Ground for clean, accurate cuts
- ▼ Won't tear thin materials
- ▼ Resistant to heat
- ▼ Fast cutting

ТРІ	LENGTH	WIDTH	THICKNESS	LENGTH [MM]	WIDTH [MM]	THICKNESS [MM]	MODEL #	PART #	quantity Per PKG.	PACKAGE TYPE
$\sim$	$\sim$	$\sim$	m	$\sim$	$\mathcal{N}$	m	nn	n	$\sim$	$\sim$
З	6"	3/4"	0.050	152	20	1.3	RTCT603C	403047	1	Card
З	6"	3/4"	0.050	152	20	1.3	RTCT603T03	403443	3	Card
З	6"	3/4"	0.050	152	20	1.3	RTCT603T25	403122	25	Tube
З	9"	3/4"	0.050	229	20	1.3	RTCT903C	403061	1	Card
З	9"	3/4"	0.050	229	20	1.3	RTCT903T03	403467	3	Card
З	9"	3/4"	0.050	229	20	1.3	RTCT903T25	403146	25	Tube
3	12"	3/4"	0.050	305	20	1.3	RTCT12O3C	403085	1	Card
З	12"	3/4"	0.050	305	20	1.3	RTCT1203T03	403481	3	Card
З	12"	3/4"	0.050	305	20	1.3	RTCT1203T25	403108	25	Tube
6	6"	3/4"	0.050	152	20	1.3	RTCT606SC	403054	1	Card
6	6"	3/4"	0.050	152	20	1.3	RTCT606ST03	403450	3	Card
6	6"	3/4"	0.050	152	20	1.3	RTCT606ST25	403139	25	Tube
6	9"	3/4"	0.050	229	20	1.3	RTCT906C	403078	1	Card
6	9"	3/4"	0.050	229	20	1.3	RTCT906T03	403474	3	Card
6	9"	3/4"	0.050	229	20	1.3	RTCT906T25	403153	25	Tube
6	12"	3/4"	0.050	305	20	1.3	RTCT1206C	403092	1	Card
6	12"	3/4"	0.050	305	20	1.3	RTCT1206T03	403498	3	Card
6	12"	3/4"	0.050	305	20	1.3	RTCT1206T25	403115	25	Tube



#### **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.





**JABSAW** 

#### **RECIP KITS**

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



Description	Model#	Part#	Contents
mm	m	$\sim$	mmmmm
General Purpose Kit	RBKITGPO1	397483	(5) ea: RB618, (6) ea: RB65006, (2) ea: RB814, RB8501014, RB95006 + Storage Tube
Heavy Duty Kit	RBKITHDO1	397490	(4) ea: RBWP64218, (2) ea: RB66210, RBFR66214W, RB96210, RBWP94214 + Storage Tube
Demolition Kit	RBKITDMO1	397971	(3) ea: RBR662811, (2) ea. RB66206, RB66210, RB96206, RBR962811 + Storage Tube
Contractor General Use Kit	RBKITO1	405003	(14) ea: RB63506, (7) ea: RB610, RB61014, RB614, RB618,
Contractor Heavy Duty Kit	RBKITO2	405010	(10) ea: RB65006, (5) ea: RB65058, RB6501014, RB65014, RB65018
Demolition Kit	<b>RBKITO3</b>	405027	(5) ea: RB65006, RB65058, RB6501014, (4) ea: RB66206 / (8) ea: RB66210
Assortment Card	RBP01	403030	(1) ea: RB414, RB418, RB614, RB618, RB65006



# CIRCULAR SAW BLADES

www.

<b>BLADE TYPE</b>	APPLICATION
Metal Devil CL	Designed to be optimized for use on cordless metal cutting circular saws.
Metal Devil NXT Steel	Used to cut angle iron, steel plate, channel iron, l-beams, pipe and other ferrous metal shapes and parts.
Metal Devil NXT Thin Steel	Used to cut ferrous metals under 1/8" without bending the cut edge including corrugated roofing, sheet metal, conduit, and steel studs.
Metal Devil NXT Stainless Steel	Used to cut all stainless steel, including 1/4 <sup>°</sup> or thinner stainless plate, or 1/8 <sup>°</sup> or thinner wall stainless tube.
Metal Devil NXT Aluminum	Used to cut all 3/8" or thinner aluminum parts including extrusions, plate, angle and grating.
Metal Devil NXT Steel Studs (14″ only)	Specially engineered to make quick, clean, accurate cuts on steel studs with square or miter cuts using 14" metal cutting saws.

# **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.

#### **FEATURES & BENEFITS**

#### CUT COOL

Touch the freshly cut metal edges. You will be amazed to find how cool it is to the touch.

#### CUT FASTER

▼ Cut through 6" x 1/4" thick steel in approximately 12 seconds.

#### CUT LONGER

 Exceptional wear resistance. Make more cuts than any other metal cutting blade on the market today.

MADE IN	<u>U.S.A.</u>

MADE IN U.S.A.

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Blade Type	Applications
Metal Devil CL <sup>™</sup>	Designed to be optimized for use on cordless metal cutting circular saws.
Metal Devil NXT <sup>®</sup> Steel	Used to cut angle iron $1/4$ " (6mm) max thickness, steel plate, channel iron, l-beams, pipe and other ferrous metal shapes and parts.
Metal Devil NXT® Stainless Steel	Used to cut all stainless steel, including $1/4$ " or thinner stainless plate, or $1/8$ " or thinner wall stainless tube.
Metal Devil NXT® Aluminum	Used to cut all $3/8$ " or thinner aluminum parts including extrusions, plate, angle and grating.
Metal Devil NXT <sup>®</sup> Thin Steel	Used to cut ferrous metals under 1/8" without bending the cut edge including corrugated roofing, sheet metal, conduit, and steel studs.
Metal Devil NXT <sup>®</sup> Steel Studs (14" only)	Specially engineered to make quick, clean, accurate cuts on steel studs with square or miter cuts using 14" metal cutting saws.

# **CIRCULAR SAW BLADES**



#### 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 V
- Stainless Steel (1/4 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 cuting without secondary work
- ▼ Cut edges cool enough to handle immediately

Blade Diameter	Part Number	#of Teeth	Arbor	Applications	Computer#	MAX RPM	Machine
nn	mm	$\gamma \gamma \gamma$	$\sim$	nn			mm
	CSM5383258NSC	32	5/8	Steel	101332	4200	Makita BCS550 / BSS501
5-3/8"	CSM53832NSC	32	20mm	Steel	101325	4200	Milwaukee M18
137mm	CSM53848NAC	48	20-10mm-5/8	Aluminum	101578	4200	Makita BCS550 / BSS501 Panasonic EY3530NQMKW /
	CSM53850CLTSC 🔻	50	20mm	Thin Steel	101769	4200	EY452LN2M
0.4 (4)	CSM62554NAC	54	5/8	Aluminum	101585	4200	Makita 5046DWDE
<b>6-1/4</b> " 159mm	CSM62548NSIC	48	20-16mm	Steel	101509	4200	Standard Circular Saws
	CSM62556CLTSC 🔻	56	20mm	Thin Steel	101776	4200	Cordless Circular Saws
	CSM6504020NSC	40	20mm	Steel	101523	4200	Panasonic EY3552GQW
	CSM65040NSC	40	5/8	Steel	101516	4200	<b>Bosch</b> CCS180K / 1617K
	CSM6504058CLSC 🔻	40	5/8	Steel	100984	4200	Makita BSS610 Dewalt DC310K / DC390K
6-1/2"	CSM6504858CLSSC 🔻	48	5/8	Stainless Steel	101714	4200	Ridgid R3203 Milwaukee 2630-20 /0730-20
165mm	CSM6505658CLAC 🔻	56	5/8	Aluminum	101738	4200	Hilti SCM22-A/DI04891A
	CSM6504020CLSC 🔻	40	20mm	Steel	101745	4200	
	CSM6504820CLSSC <b>V</b>	48	20mm	Stainless Steel	101707	4200	Panasonic EY3552GQW Hilti SCM18-A/03490197
	CSM6505620CLAC 🔻	56	20mm	Aluminum	101721	4200	
<b>6-3/4"</b> 171mm	CSM67540NSC	40	20mm	Steel	101530	4200	Dewalt DW934K-2 Standard Circular Saws
	CSM740NSC	40	20mm	Steel	101363	5800	
7"	CSM744NSSC	44	20mm	Stainless Steel	101677	5800	Morse CSM7MB / CSM7NXTB Evolution Steel Saw
178mm	CSM754NAC	54	20mm	Aluminum	101608	5800	Jancy MCSL07-2 Milwaukee 0740-20
	CSM768NTSC	68	20mm	ThinSteel	101783	5800	
	CSM72540NSC	40	5/8 KO	Steel	101349	5800	Bosch CS5 / CS10 / CS20 / 1677M / 1677MD
	CSM72548NSC	48	5/8 KO	Steel	101356	5800	Dewalt DC300K / 364 / DW368 DW369CSK Makita 4131 /
7-1/4"	CSM72560NAC	60	5/8 KO	Aluminum	101615	5800	5057KB / 5007FAK / 5007FK / 5740NB / 5377MG / 5277NB
184mm	CSM72568NTSC	68	5/8 KO	ThinSteel	101790	5800	Milwaukee 6390-20 / 6391-21 / 6394-21 / 6477-20
	CSM7254020NSC	40	20mm	Steel	101547	5800	<b>Evolution</b> Fury / Outrage /
	CSM72548NSIC	48	20mm	Steel	101554	5800	Rage 1 / Rage 4
<b>7-1/2"</b> 191mm	CSM7506830TSIC	68	30mm	Thin Steel	100533	5800	Standard Circular Saws
V Denotes C	L (Cordless Blades)						



1 ARBOR 3200 MAX RPM CARBIDE TIPPED MADE IN U.S.A. 3

Blade Diameter	Part Number	#of Teeth	Arbor	Applications	Computer#	MAX RPM	Machine
$\sim$	$\sim$	m	$\mathcal{N}$	m	$\sim$	$\mathcal{N}$	nnn
	CSM842NSC	42	5/8	Steel	101387	5800	
	CSM848NSC	48	5/8	Steel	101394	5800	
<b>8"</b> 203mm	CSM850NSSC	50	5/8	Stainless	101684	5800	<b>Milwaukee</b> 6370-20
Loomm	CSM860NAC	60	5/8	Aluminum	101622	5800	
	CSM868NTSC	68	5/8	Thin Steel	101806	5800	
<b>8-1/4"</b> 210mm	CSM82548NSC	48	5/8 KO	Steel	101370	5800	Dewalt DW384, Makita 5008MGA
9"	CSM948NSC	48	1	Steel	101400	3200	
	CSM956NSSC	56	1	Stainless	101691	3200	Morse CSM9MB / CSM9NXTB
229mm	CSM968NTSC	68	1	Thin Steel	101813	3200	Jancy MCSL09 / MCSL09-2
	CSM972NAC	72	1	Aluminum	101639	3200	
10"	CSM1052NTSC	52	5/8 KO	Thin Steel	101820	5200	<b>Bosch</b> 4410 / 4405
254mm	CSM1072NAC	72	5/8 KO	Aluminum	101646	5500	Ridgid MS1065LZA
	CSM1260NSC	60	1	Steel	101561	1800	
<b>12</b> " 305mm	CSM1280NAC	80	1	Aluminum	101653	3800	Makita LC1230
	CSM1280NTSC	80	1	Thin Steel	101837	2000	
	CSM1466NSC	66	1	Steel	101318	1800	
<b>14''</b> 356mm	CSM1480NAC	80	1	Aluminum	101660	3800	Dewalt DW872
	CSM1481NSTC	81	1	Steel Studs	100786	1800	Evolution Fully2 / Rage2 Evolution Steel Saw2
	CSM1490NTSC	90	1	Thin Steel	101844	1800	Milwaukee 6190-20 Dideid 614
	CSM1490NSSC	90	1	Stainless	100793	1800	niugiu ora

5<sup>3</sup>/<sub>8</sub>" blades include special bushings allowing them to fit 20mm, 10mm and <sup>5</sup>/<sub>8</sub>" arbor holes. \*<sup>5</sup>/<sub>8</sub> KO fits both diamond and circular arbors. Blades in red indicate international machine arbor sizes.





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# **CIRCULAR SAW BLADES**

Metal Devil NXT	METAL DEVIL M. K. Morse stocks f machine repairs at o	NXT <sup>®</sup> CIRC actory original ur facility in Car	<b>CULAR SA</b> circular saw r nton, Ohio.	NWS nachine parts and offers					
	<b>7" CSM7NX</b> COMPUTER NO. 1009 <b>INCLUDES</b> Laser Guide, 0-45 Designed Side Har Collection Chambe Safety Goggles, Ea	<b>7" CSM7NXTB</b> COMPUTER NO. 100960 <b>INCLUDES</b> Laser Guide, O-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.							
	<b>CUTTING CAPABII</b> 23⁄6" Maximum Cu 1⁄4" Maximum Thic 0-45° Bevel Cut	<b>LITIES</b> tting Reach kness of Cut Mi	ild Steel	SPECIFICATIONS 3800 RPM   1560 Watts 120 V   60Hz   13 Amp 20mm Arbor Weight: 18 lbs					
	<ul> <li>9" CSM9NXTB COMPUTER NO. 100977</li> <li>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.</li> </ul>								
	CUTTING CAPABI 3-1/4" Maximum C 3/8" Maximum Thi 0-45° Bevel Cut	LITIES Cutting Reach ckness of Cut N	/lild Steel	<b>SPECIFICATIONS</b> 2300 RPM   1800 Watts 120 V   60Hz   15 Amp 1" Arbor Weight: 22 Ibs					
	<b>14" CSM14I</b> COMPUTER NO. 1011 <b>INCLUDES</b> O-45° Mitering Vic Release Metal Chi Safety Goggles, Ea	<b>VIB</b> 72 :e, Overload Sw p Collection Cha ir Plugs, Metal	itch, Retractii amber, 6mm a Devil NXT, Ste	ng Blade Guard, Quick and 8mm, Blade Wrench, ael Cutting Blade.					
in the second seco	CUTTING CAPABI	LITIES		SPECIFICATIONS					
Geo Contraction		45°	90°	1300 RPM 120 V   60Hz   15 Amp					
	_		1						
the second se	ROUND	4 1⁄8"	5 1⁄8"	1" Arbor Weight: 53 lbs					

# **METAL CUTTING ACCESSORIES**





#### **METAL DEVIL V-BLOCKS** CSP14A01 / 100724

Maximum Material Dimensions to be used with V-Blocks: ▼ Round 3" ▼ Square 3 7/8"

#### **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

3200 MAX RPM CARBIDE TIPPED MADE IN U.S.A.

- Optimizes Blade Life
- Provides Precise Cutting Results ▼
- Reduces Opportunity for Machine Damage



# METAL DEVIL ABRASIVE CUT-OFF WHEELS DIAMOND EDGE



# **ABRASIVE CUT-OFF WHEELS**



#### APPLICATIONS

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

#### 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.

#### 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	PART NUMBER	COMPUTER NUMBER	ARBOR HOLE	MAX RPM
nnn	$\sim$	mm	mm	mm	mm
<b>4.5"</b> (114mm)	.050	CSD4500C	102001	7/8" - 5/8"	13,000
<b>6"</b> (152mm)	.050	CSD6000C	102018	7/8" - 5/8"	10,185
<b>7"</b> (114mm)	.060	CSD7000C	102025	7/8" - 5/8" KO	8,730
<b>12</b> " (305mm)	.125	CSD12000C	102032	1" - 20mm	6,115
<b>14</b> " (356mm)	.125	CSD14000C	102049	1" - 20mm	5,500



Monse Metal Devil

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#### **BLADE TYPE** Mors High Unive

#### **APPLICATION**

Morse 811/1216 High Performance Universal Blade	A truly universal usage blade. Cuts machinable metals, stainless steel, plastics and nail embedded wood. The unique tooth geometry and bi-metal construction provide exceptional blade life with excellent speed-of-cut performance. This blade can easily cut materials you would cut with 8/12 through 18 teeth per inch blades.
Master Cobalt Bi-Metal	Use on machinable metals, including stainless steel, pipe, tubing and solids. Bi-Metal blades offer high heat, wear and shock resistance. Variable pitch allows a broader range of applications and reduced vibration when cutting. This combination results in the longest blade life among competitive blades.
Straight Pitch Bi-Metal	Use on machinable metals, including stainless steel, pipe, tubing and solids. Premium straight pitch blades offer high resistance to heat, wear and shock contributing to longer blade life.
Carbon Steel	Use on easy to machine metals. These economical blades are straight pitch.
Stationary Band Saw Blades	Use for cutting wood and easy to machine metals. Carbon hard edge/flex back blades offer reliable performance.



#### **APPLICATIONS**

- ▼ Machinable metals
- ▼ Stainless steel
   ▼ Pipe
  - Pipe Tubing
- ▼ Tubing▼ Solids

#### **811 AND 1216 PORTABLE BAND SAW BLADES** These high performance bi-metal portable band saw blades

deliver exceptional performance and the most cuts per blade in the market.

MADE

#### BENEFITS

MORSE 811

- Shock resistant teeth great for cutting machinable metals
   Variable pitch allows a broader range of applications and reduced vibration
- Available in a variety of lengths for any portable saw on the market

LENGTH X WIDTH X THICKNESS				BOXED 3/B	ОХ	BOXED 25/B	ох	BULK 100/C	ARTON
INCHES	MM	TPI	TPI SET	MODEL #	COMP. #	MODEL #	COMP. #	MODEL #	COMP. #
$\gamma \gamma \gamma \gamma$	nn	22	nn	$\sim$	$\sim$	$\sim$	$\sim$	$\gamma \gamma \gamma$	22

HEAVY WALL BLAD	ES								
27-3/16 X ½ X .020	691 X 12.7 X .50	8/11	Modified Raker	ZWEP27811MC	002653				
28-13/16 X ½ X .020	732 X 12.7 X .50	8/11	Modified Raker	ZWEP28811MC	002660				
32-7/8 X ½ X .020	835 X 12.7 X .50	8/11	Modified Raker	ZWEP32811MC	002677				
35-3/8 X ½ X .020	899 X 12.7 X .50	8/11	Modified Raker	ZWEP35811MC	002684				
44-7/8 X ½ X .020	1140 X 12.7 X .50	8/11	Modified Raker	ZWEP44811MC	002486	ZWEP44811MCB25	002462	ZWEP44811MCB	002455
THIN WALL BLADES	5								
27-3/16 X ½ X .020	691 X 12.7 X .50	12/16	Modified Raker	ZWEP271216MC	002691				
28-13/16 X ½ X .020	732 X 12.7 X .50	12/16	Modified Raker	ZWEP281216MC	002707				
32-7/8 X ½ X .020	835 X 12.7 X .50	12/16	Modified Raker	ZWEP321216MC	002714				
35-3∕8 X ½ X .020	899 X 12.7 X .50	12/16	Modified Raker	ZWEP351216MC	002721				
44-7/8 X ½ X .020	1140 X 12.7 X .50	12/16	Modified Raker	ZWEP441216MC	002738	ZWEP441216MCB25	002745	ZWEP441216MCB	002752





#### **MASTER COBALT**

Variable pitch teeth on these premium bi-metal portable band saw blades reduces vibration when cutting. Features Matrix II cutting edges and the longest life compared to any competitive blades. Available in several lengths as well as standard (.020") and heavy duty (.025") thickness.

APPLICATIONS	BENEFITS
<ul> <li>Machinable metals</li> <li>Stainless steel</li> <li>Pipe</li> <li>Tubing</li> <li>Solids</li> </ul>	<ul> <li>Shock resistant teeth great for cutting machinable metals</li> <li>Variable pitch allows a broader range of applications and reduced vibration</li> <li>Special heavy duty skus available in .025" thickness</li> <li>Straight pitch teeth for better chip clearance and fast cutting</li> <li>Available in a variety of lengths for any portable saw on the market</li> </ul>

LENGTH X WIDTH X THICKNESS				BOXED 3/B	OX	BOXED 25/B	ох	BULK 100/CA	TON
INCHES	ММ	TPI	SET	MODEL #	COMP. #	MODEL #	COMP. #	MODEL #	COMP. #
nnn	nn	22	$\sim$		$\sim$	$\sim$	$\sim$	$\sim$	
VARIABLE PITCH									
27-3/16 X ½ X .020	691 X 12.7 X .50	14/18	Wavy	ZWEP271418MC	001823			ZWEP271418MCB	001847
28-13/16 X ½ X .020	732 X 12.7 X .50	10/14	Modified Raker	ZWEP281014MC	001755			ZWEP281014MCB	001786
28-13/16 X ½ X .020	732 X 12.7 X .50	14/18	Wavy	ZWEP281418MC	001748			ZWEP281418MCB	001779
32-7/8 X ½ X .020	835 X 12.7 X .50	10/14	Modified Raker	ZWEP321014MC	001861			ZWEP321014MCB	003292
32-7/8 X ½ X .020	835 X 12.7 X .50	14/18	Wavy	ZWEP321418MC	001892			ZWEP321418MCB	003308
32-7/8 X ½ X .020	835 X 12.7 X .50	20/24	Wavy	ZWEP322024MC	001878			ZWEP322024MCB	003315
35-3∕8 X ½ X .020	899 X 12.7 X .50	10/14	Modified Raker	ZWEP351014MC	003049			ZWEP351014MCB	003445
35-3∕8 X ½ X .020	899 X 12.7 X .50	14/18	Wavy	ZWEP351418MC	003056			ZWEP351418MCB	003452
35-3/8 X ½ X .020	899 X 12.7 X .50	20/24	Wavy	ZWEP352024MC	003063			ZWEP352024MCB	003469
44-7/8 X ½ X .020	1140 X 12.7 X .50	10/14	Modified Raker	ZWEP441014MC	001175	ZWEP441014MCB5	002370	ZWEP441014MCB	002233
44-7/8 X ½ X .020	1140 X 12.7 X .50	14/18	Wavy	ZWEP441418MC	001182			ZWEP441418MCB	002240
44-7/8 X ½ X .020	1140 X 12.7 X .50	20/24	Wavy	ZWEP442024MC	001199	ZWEP442024MCB5	002363	ZWEP442024MCB	002257
44-7/8 X ½ X .025	1140 X 12.7 X .63	10/14	Modified Raker	ZWEP44251014	001953				
44-7/8 X ½ X .025	1140 X 12.7 X .63	14/18	Wavy	ZWEP44251418	001960				





STRAIGHT PITCH BI-METAL Straight pitch bi-metal blades with Matrix II cutting edges and straight pitch teeth, these blades cut fast and last a long time with reduced breakage and high resistance to heat, wear and shock. Available in several lengths as well as standard (.020") and heavy duty (.025") thickness.

#### APPLICATIONS

Tubing

▼ Solids

▼ Pipe

▼

- Machinable metals ▼
- BENEFITS
- ▼ Shock resistant teeth great for cutting machinable metals ▼ Variable pitch allows a broader range of applications and Stainless steel reduced vibration Special heavy duty skus available in .025" thickness ▼ Straight pitch teeth for better chip clearance and fast cutting
  - ▼ Available in a variety of lengths for any portable saw on the market

LENGTH X WIDTH	LENGTH X WIDTH X THICKNESS			BOXED 3/B	OX	BOXED 100/CARTON		1/CARD - 5/STANDARD PACK	
INCHES	ММ	TPI	SET	MODEL #	COMP. #	MODEL #	COMP. #	MODEL #	COMP. #
nnn			VVL		VV	VVVI			
STANDARD PITCH									
27-3/16 X ½ X .020	691 X 12.7 X .50	18	Wavy	ZWEP2718W	001830	ZWEP2718WB	001854		
28-13∕16 X ½ X .020	732 X 12.7 X .50	24	Wavy	ZWEP2824W	001762	ZWEP2824WB	001793		
32-7/8 X ½ X .020	835 X 12.7 X .50	10	Raker	ZWEP3210R	001885	ZWEP3210RB	003254		
32-7/8 X ½ X .020	835 X 12.7 X .50	14	Wavy	ZWEP3214W	001908	ZWEP3214WB	003261		
32-7/8 X ½ X .020	835 X 12.7 X .50	18	Wavy	ZWEP3218W	001915	ZWEP3218WB	003278		
32-7/8 X ½ X .020	835 X 12.7 X .50	24	Wavy	ZWEP3224W	001922	ZWEP3224WB	003285		
35-3∕8 X ½ X .020	899 X 12.7 X .50	10	Raker	ZWEP3510R	003001	ZWEP3510RB	003407		
35-3∕8 X ½ X .020	899 X 12.7 X .50	14	Wavy	ZWEP3514W	003018	ZWEP3514WB	003414		
35-3∕8 X ½ X .020	899 X 12.7 X .50	18	Wavy	ZWEP3518W	003025	ZWEP3518WB	003421		
35-3/8 X ½ X .020	899 X 12.7 X .50	24	Wavy	ZWEP3524W	003032	ZWEP3524WB	003438		
44-7/8 X ½ X .020	1140 X 12.7 X .50	10	Raker	ZWEP4410R	001205	ZWEP4410RB	002158	ZCWEAD10	000017
44-7/8 X ½ X .020	1140 X 12.7 X .50	14	Wavy	ZWEP4414W	001212	ZWEP4414WB	002165	ZCWEAD14	000024
44-7/8 X ½ X .020	1140 X 12.7 X .50	18	Wavy	ZWEP4418W	001229	ZWEP4418WB	002172	ZCWEAD18	000031
44-7/8 X ½ X .020	1140 X 12.7 X .50	24	Wavy	ZWEP4424W	001236	ZWEP4424WB	002189	ZCWEAD24	000048
44-7/8 X ½ X .025	1140 X 12.7 X .63	14	Wavy	ZWEP442514W	001939				
44-7/8 X ½ X .025	1140 X 12.7 X .63	18	Wavy	ZWEP442518W	001946				
53-3/4 X ½ X .020	1365 X 12.7 X .50	10	Raker	ZWEP5310R	001274	ZWEP5310RB	002196		
53-3/4 X ½ X .020	1365 X 12.7 X .50	14	Wavy	ZWEP5314W	001281	ZWEP5314WB	002202		
53-3/4 X ½ X .020	1365 X 12.7 X .50	18	Wavy	ZWEP5318W	001298	ZWEP5318WB	002219		
53-3/4 X ½ X .020	1365 X 12.7 X .50	24	Wavy	ZWEP5324W	001304	ZWEP5324WB	002226		
53-3/4 X ½ X .020	1365 X 12.7 X .50	10/14	Mod. Raker	ZWEP531014	001311	ZWEP531014B	002264		
53-3/4 X ½ X .020	1365 X 12.7 X .50	14/18	Wavy	ZWEP531418	001328				
54 X ½ X .025	1372 X 12.7 X 6.4	10	Raker	ZWEP5410R	001342	ZWEP5410RB	001588		
54 X ½ X .025	1372 X 12.7 X 6.4	14	Wavy	ZWEP5414W	001359	ZWEP5414WB	001595		
54 X ½X .025	1372 X 12.7 X 6.4	18	Wavy	ZWEP5418W	001366	ZWEP5418WB	001601		
54 X 1/2 X .025	1372 X 12.7 X 6.4	24	Wavy	ZWEP5424W	001373	ZWEP5424WB	001618		

#### **25 PACK PORTABLE BAND SAW BLADES**

Our most popular sizes of bi-metal portable band saw blades in easy-to-store, 25 pack dispenser boxes.

LENGTH X WIDTH >	X THICKNESS					
INCHES	MM	TPI	SET	PITCH	MODEL #	COMPUTER #
m	m	$\mathcal{N}$	$\sim$	nn	nnn	m
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	14	Wavy	Standard	ZWEP4414WB25	002318
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	18	Wavy	Standard	ZWEP4418WB25	002301
44-7/8 X 1/2 X .025	1140 X 12.7 X .63	14	Wavy	Standard	ZWEP442514WB25	001977
44-7/8 X 1/2 X .025	1140 X 12.7 X .63	18	Wavy	Standard	ZWEP442518WB25	001984
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	10/14	Wavy	Variable	ZWEP441014MCB25	002356
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	14/18	Wavy	Variable	ZWEP441418MCB25	002295
44-7/8 X 1/2 X .025	1140 X 12.7 X .63	10/14	Modified Raker	Variable	ZWEP44251014B25	001991
44-7/8 X 1/2 X .025	1140 X 12.7 X .63	14/18	Wavy	Variable	ZWEP44251418B25	002004

#### **CARBON BLADES**

These economical blades are milled from solid carbon steel. Suitable for use on easier-to-machine metals, including pipe, tubing and solids.

LENGTH X WIDTH			BOX	(ED	BU	LK				
INCHES	MM	TPI	SET	MODEL #	COMPUTER #	MODEL #	COMPUTER #			
nnn	$\sim$	$\mathcal{N}$	$\sim$	$\sim$	nn	m	$\sim$			
STANDARD PITCH										
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	14	Wavy			ZHEP4414WB	001670			
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	18	Wavy	ZHEP4418W	001434	ZHEP4418WB	001687			
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	24	Wavy	ZHEP4424W	001441	ZHEP4424WB	001694			









**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 metals with guaranteed welds.

			1		I		1	TEETH F	PER INC	н							
LENGTH X WIDTH X THICKNESS		0	3	04		06		0	8	1	4	18 ND# NOD# 20ND#		24		3	2
						MOD#		MOD#		MOD#						MOD#	
52-3/4 X 1/4 X .014	1340 X 6.4 X .3					ZCABO6	000178			ZCAB14	000185	ZCAB18	000192	ZCAB24		ZCAB32	000215
56-1/8 X 1/8 X .018	1426 X 3.2 X .5							ZCBA08A	002523	ZCBA14A	002530						
56-1/8 X 1/4 X .014	1426 X 6.4 X .3					ZCBB06	000246			ZCBB14	000253	ZCBB18	000260	ZCBB24	000277	ZCBB32	000284
56-1/8 X 3/8 X .014	1426 X 9.5 X .3					ZCBC06	000673										
57 X 1/8 X .018	1448 X 3.2 X .5							ZCCAO8A	002547	ZCCA14A	002554						
57 X 1/4 X .014	1448 X 6.4 X .3					ZCCB06	000314			ZCCB14	000321	ZCCB18	000338	ZCCB24	000345		
57 X 3/8 X .014	1448 X 9.5 X .3					ZCCCO6	000352			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					ZCZB06	000819										
59-1/4 X 3/8 X .014	1505 X 9.5 X .3					ZCZCO6	000826										
59-1/2 X 1/8 X .018	1511 X 3.2 X .5							ZCDA08A	002578	ZCDA14A	002585						
59-1/2 X 1/4 X .014	1511 X 6.4 X .3					ZCDB06	000406			ZCDB14	000413	ZCDB18	000420	ZCDB24	000437	ZCDB32	000444
59-1/2 X 3/8 X .014	1511 X 9.5 X .3					ZCDC06	000451			ZCDC14	000468			ZCDC24	000482	ZCDC32	000499
62 X 1/8 X .018	1575 X 3.2 X .5							ZCEA08A	002592	ZCEA14A	002608						
62 X 1/4 X .014	1575 X 6.4 X .3					ZCEB06	000529			ZCEB14	000536	ZCEB18	000543	ZCEB24	000550	ZCEB32	000567
62 X 3/8 X .014	1575 X 9.5 X .3					ZCEC06	000574			ZCEC14	000581			ZCEC24	000604	ZCEC32	000611
64-1/2 X 1/2 X .025	1638 X 12.7 X .6					ZCFD06	000628			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					ZCGB06	000697										
70 X 3/8 X .014	1778 X 9.5 X .3					ZCGCO6	000703										
71-3/4 X 1/8 X .018	1822 X 3.2 X .5									ZCHA14A	002622						
71-3/4 X 1/4 X .014	1822 X 6.4 X .3					ZCHB06	000857										
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					ZCIB06	000888										
72-7/16 X 3/8 X .025	1840 X 9.5 X .6			ZCICO4	001076												
72-7/16 X 1/2 X .025	1840 X 12.7 X .6	ZCIDO3	001083														
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					ZCJB06	000901										
80 X 3/8 X .014	2032 X 9.5 X .3					ZCJC06	000918										
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					ZCKB06	000949										
82 X 3/8 X .014	2083 X 9.5 X .3					ZCKC06	000956										
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					ZCLB06	000987			ZCLB14	001052						
93-1/2 X 3/8 X .025	2362 X 9.5 X .6					ZCLCO6	000994			ZCLC14	001069	ZCLC18	001007				
93-1/2 X 1/2 X .025	2362 X 12.7 X .6					ZCLD06	001014			ZCLD14	001021	ZCLD18	001038	ZCLD24	001045		



# JIG SAW BLADES

wwww

BLADE TYPE	APPLICATION
Bi-Metal	Used primarily for cutting ferrous and non-ferrous metals. Milled and set teeth allow for better clearance while cutting metal. Using a larger tooth (6, 8 tpi) allows for more efficient cutting in hard board, wood and other wood composites.
Carbon Steel	Used for cutting all types of wood and non-metallic products. The conical ground/cross sharpened teeth offer very clean and fast cuts. Specs also available in milled and set style teeth.
Carbide Grit	Used for cutting fiberglass, ceramic tile, composites, laminates, marble floor tiles, etc. Super resistance to heat, wear and abrasion. Allows the cutting of materials that other blades are unable to cut.

# **JIG SAW BLADES**

#### **BI-METAL 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.

Breek	<ul> <li>APPLICA</li> <li>✓ Machi</li> <li>✓ Wood</li> <li>✓ Nail-er</li> <li>✓ Compo</li> <li>✓ Plastic</li> <li>✓ Rubbe</li> </ul>	ATIONS nable metal mbedded wood osites c r	<ul> <li>BENEFITS</li> <li>Milled and set teeth for better clearance while</li> <li>Larger tooth (6, 8 tpi) are more efficient cuttin board, wood and other wood composites</li> <li>Available in a universal shank and T-shank</li> </ul>							netal I	
		LENGTH X WIDTH X	THICKNESS		25/TU	BE	5/CA 10/standa	rd Rd Pack	2/CAI 5/STANDAR	rd Rd Pack	тоотн
RECOMMEND	ED USE	INCHES	ММ	TPI	MODEL#	COMP#	MODEL#	COMP#	MODEL#	COMP#	STYLE
$\gamma\gamma\gamma\gamma$		nn	$\sim$	$\mathcal{A}$	$\sim$	$\sim$	$\sim$	$\sim$	$\sim$	$\mathcal{N}$	$\sim$
UNIVERSAL SHAP	NK: Used on	all popular jig saw m	achines acce	pting	j universal sh	nank.					
Wood, fiber board, coarse-cut.	asbestos,	4 X 3/8 X .035	100 X 10 X .9	6	SB3606T25	400855	SB3606C5	404549	SB3606C2	397636	Μ
Wood, plywood, har	rd-board.	4 X 3/8 X .035	100 X 10 X .9	10	SB3610T25	400879	SB3610C5	404556	SB3610C2	397643	Μ
Non-ferrous metals, hard rubber, nail-em	, Fiberglass, nbedded wood.	4 X 3/8 X .035	100 X 10 X .9	14	SB3614T25	400893	SB3614C5	404563	SB3614C2	397650	Μ
Metal 18 gauge to	1/8″.	3 X 3/8 X .035	75 X 10 X .9	18	SB2718T25	400794	SB2718C5	404518	SB2718C2	397612	М

Non-ferrou hard rubbe Metal 18 g Metal and non-ferrous metal 3 X 3/8 X .035 75 X 10 X .9 24 SB2724T25 400831 SB2724C5 404525 SB2724C2 397629 Μ up to  $1/8^{\prime\prime}$ . Scroll - non-ferrous metals, 3-5/8 X 3/16 X .035 92 X 5 X .9 12 SB412ST25 399487 SB412SC5 404532 SB412SC2 397667 Μ fiberglass, plywood. Scroll - metal 18 gauge to 1/8" 2-3/4 X 3/16 X .035 70 X 5 X .9 18 SB2718ST25 402972 SB2718SC5 404501 SB2718SC2 397605 Μ T-SHANK: Used on all popular jig saw machines accepting Bosch or T-shank. Wood, fiber board, asbestos, 4 X 3/8 X .040 100 X 8 X 1.0 6 SB0406T25 400732 SB0406C5 404600 SB0406C2 397704 Μ roughing work. General purpose - wood cutting, 4 X 3/8 X .035 100 X 8 X .9 SB0408T25 400756 SB0408C5 404617 SB0408C2 397711 Μ 8 compositions, plastic. All woods, composition materi-SB0410T25 400770 SB0410C5 404624 SB0410C2 397728 al, plastics, plywood. Steel and 4 X 3/8 X .035 100 X 8 X .9 10 Μ non-ferrous Steel and non-ferrous Metal 1/8" 3 X 3/8 X .035 75 X 10 X .9 14 SB0314T25 400671 SB0314C5 404570 SB0314C2 397674 Μ thick and up. Metals over 18 gauge, tubing, 3 X 3/8 X .035 75 X 10 X .9 18 SB0318T25 400695 SB0318C5 404587 SB0318C2 397681 Μ conduit. Thin metal, plastic fine cuts under 3 X 3/8 X .035 75 X 10 X .9 24 SB0324T25 400718 SB0324C5 404594 SB0324C2 397698 Μ 18 gauge Softwood, aluminum, non-ferrous SB0512LT25 401272 SB0512LC5 404631 5-1/4 X 3/8 X .042 132 X 8 X 1.1 12 Μ metal up to 3/8", sandwich mate-5-1/4 X 3/8 X .042 132 X 8 X 1.1 21 SB0521LT25 401319 SB0521LC5 404648 Μ rial up to 3-3/4". Extra long blade.

TOOTH STYLE: M (Milled)

# **JIG SAW BLADES**



#### **CARBON 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.

S.F. S.C.	APPLI	CATIONS		BENEFITS										
	<ul> <li>▼ Soft</li> <li>▼ Hare</li> <li>▼ Chip</li> <li>▼ Plyw</li> <li>▼ Plas</li> </ul>	wood dwood boards vood tic		<ul> <li>Hiç wc</li> <li>Av</li> <li>Too</li> </ul>	gh quality c oods, chipbo ailable in bo oth styles a	arbon st bards, pl oth unive re either	eel blades ywoods, p rsal shank r milled or	are idea lastic, ar and T-sl cross sh	al for cuttii nd similar hank iarpened-c	ng materia :onical g	ıl. round			
LENGTH X WIDTH X THICKNES           RECOMMENDED USE         INCHES			THICKNESS		25/TU	BE	5/CA	RD	2/CA	RD	тоотн			
			ММ	TPI	MODEL#	COMP#	MODEL#	COMP#	MODEL#	COMP#	STYLE			

$\square$			$\square$	$\square$	$ $	$ $	$ $	$ $	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{L}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{L}$	$\square$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\square$	$\mathcal{D}$
	~	NUZ 11																			

UNIVERSAL SHANK: Used on all popular jig saw machines accepting universal shank.

Softwood, hardwood, plywood, chipboard, plastic up to 2" thick. Clean/fast cutting.	4 X 5/16 X .050	100 X 8 X 1.3	6	SC406T25	399722	SC406C5	404853	SC406C2	397865	CGR
Softwood, hardwood, plywood, chipboard, plastic up to 1" thick. Very clean cuts.	4 X 5/16 X .050	100 X 8 X 1.3	10	SC410T25	399746	SC410C5	404860	SC410C2	397889	CGR
Reverse tooth - non-splitting cuts of laminates, and chipboard. Very clean cutting.	4 X 5/16 X .060	100 X 8 X 1.5	10	SC410RT25	399739	SC410RC5	404877	SC410RC2	397872	CGR
Scroll cutting wood, plywoods, etc. Super fine finish. Ground, taper back.	2-3/4 X 3/16 X .050	70 X 5 X 1.3	20	SC2720T25	399692	SC2720C5	404815	SC2720C2	397834	CGR
T-SHANK: Used on all popular	jig saw machines ac	cepting Boscl	n or	T-shank.						
Softwood, hardwood, plywood, chipboard. Fast coarse cutting.	4 X 5/16 X .050	100 X 8 X 1.3	6	SC046T25	401401	SC046C5	404914	SC046C2	397964	М
Softwood, hardwood, plywood, chipboard, plastic up to 2" thick. Clean/fast cutting.	4 X 5/16 X .060	100 X 8 X 1.5	6	SC0406T25	400329	SC0406C5	404921	SC0406C2	397926	CGR
Softwood, hardwood, plywood, chipboard, plastic up to 1" thick. Very clean cuts.	4 X 5/16 X .060	100 X 8 X 1.5	10	SC0410T25	400510	SC0410C5	404938	SC0410C2	397940	CGR
Reverse tooth _ non-splitting cuts of laminates, and chip- board. Very clean cutting.	4 X 5/16 X .060	100 X 8 X 1.5	10	SCO410RT25	400503	SCO41ORC5	404945	SCO41ORC2	397933	CGR
Curved cuts/scroll in softwood and hardwood up to 1" thick. Fast cutting.	3 X 5/32 X .040	75 X 4 X 1	12	SC0312ST25	401142	SCO312SC5	404884	SCO312SC2	397902	М
Curved cuts/scroll in softwood and hardwood up to 1 <sup>"</sup> thick. Fast cutting.	3 X 3/16 X .050	75 X 5 X 1.3	20	SC0320ST25	401364	SC0320SC5	404891	SC0320SC2	397919	CGR
Curved cuts/scroll in softwood and hardwood up to 2" thick. Fast cutting.	4 X 1/4 X .050	100 X 6 X 1.3	6	SCO416ST25	400534	SCO416SC5	404907	SCO416SC2	397957	CGR
TOOTH STYLE: M (Milled) CGB (Cross Sharpened, Conical Ground)										



	CARI For cut grains materia cerami	BIDE GRIT JIG S ting materials too hard are bonded to alloy boo als and offer a long life ic tile, composites, lami	AW BLADES d, or abrasive or thin dy creating smooth when cutting difficu- inates, marble floor	n for bi-metal blades. Tu cutting blades that won It materials. Used for c tiles, etc.	ingsten carbide i't tear thin sutting fiberglass,
	APPL	ICATIONS	BENEFITS		
	<ul> <li>Fibe</li> <li>Lat</li> <li>Cer</li> <li>Ma</li> <li>Oth</li> </ul>	erglass h 'amic rble Ier abrasive material	<ul> <li>Super resis</li> <li>Fast cuts w snags or bir</li> <li>Ideal for cut bi-metal black</li> </ul>	cance to heat and shock ith carbide grains bonde iding ting materials to hard or des	d to an alloy backer, no r abrasive for standard
		25/1	TUBE	1/CARD - 5	5/STANDARD PACK
DESCRIPTION		MODEL #	COMPUTER #	MODEL #	COMPUTER #
' VNNV	$\mathcal{V}\mathcal{V}$	'VVVVV			
UNIVERSAL SHANK					

2-3/4″ Fine Grit Blade	STCG27-FT25	402859	SCTCG27-F	402699
2-3/4" Medium Grit Blade	STCG27-MT25	402866	SCTCG27-M	402705
2-3/4" Coarse Grit Blade	STCG27-CT25	402873	SCTCG27-C	402712
3-5/8" Fine Grit Blade	STCG36-FT25	402880	SCTCG36-F	402729
3-5/8" Medium Grit Blade	STCG36-MT25	402897	SCTCG36-M	402736
3-5/8" Course Grit Blade	STCG36-CT25	402903	SCTCG36-C	402743
T-SHANK				
4" Fine Grit Blade	SOTCG4-FT25	402828	SCOTCG4-F	402668
4″ Medium Grit Blade	SOTCG4-MT25	402835	SCOTCG4-M	402675
4" Course Grit Blade	SOTCG4-CT25	402842	SCOTCG4-C	402682

JIG SAW BLADE ASSORTMENTS 6-piece assortments offer lots of versatility; packaged in a vinyl pouch.

Model #	Computer #	Shank	One Each (6 Pieces/Pouch)	Pouch			
mmmmmmm							
UNIVERSAL SHANK:	Used on all p	opular jig saw machine	es accepting Bosch or T-shank.				
SB1P	401173	1/4" Universal Shank	SB3606, SB3610, SB3614, SB2718, SB2724, SB412S	Vinyl			
SC1P	401418	1/4" Universal Shank	(2) SC406, (2) SC410, SC410R, SC2720	Vinyl			
SBC01	402163	1/4" Universal Shank	SB2718, SB2724, SB3606, SB3610, SB3614	Carded			
T-SHANK: Used on a	ll popular jig s	aw machines acceptir	ng Bosch or T-shank.				
SB2P	401531	T-Shank	SB0406, SB0410, SB0314, (2) SB0318, SB0324	Vinyl			
SC2P	401432	T-Shank	SCO406, (2) SCO410, SCO410R, SCO416S, SCO320S	Vinyl			



# BI-METAL HACK SAW BLADES

BLADE TYPE	APPLICATION
Bi-Metal Blades	Used to cut pipe, tubing, solids, wood, plastic or any machinable metal. Increased heat and wear resistance for long life. Flexible to prevent shattering during use.
Morse Hack Saw Frames	We offer a wide range of hack saw frames from the "mini" for tight spaces to the Master McCoy® with features and beam strength that will stand up to the toughest professional uses.
Carbide Grit Blades	Used to cut glass, hardened steel, stranded cable and tile. Super resistance to heat wear and abrasion to allow the cutting of materials that other blades are unable to cut.
PVC/ABS Hand Saw	Designed to cut PVC and ABS pipe quickly and efficiently. Offered with replaceable blades.
## **BI-METAL HACK SAW SAW BLADES**

12" / 300mm tar

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	BI-N	VETAL H		SAW BLAD	S		and the second se				
$\mathbf{P}$	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.										
AREA PARA	FEA	FEATURES				BENEFITS					
	<ul> <li>Vacuum heat treating</li> <li>Straight blade body</li> <li>Bi-metal construction</li> </ul>				<ul> <li>Harder edge for fast cutting</li> <li>Greater beam strength</li> <li>Long cutting life</li> <li>Heat and wear resistant</li> <li>Flexible to prevent shattering during use</li> </ul>						
TOOTH HEALT BAS	<b>TRIPLE TOOTH BI-METAL HACK SAW BLADE</b> 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.										
	<b>APF</b> ▼ C ▼ P ▼ N ▼ C	APPLICATIONS         ▼ Cut wood       ▼ Stainless steel tubing         ▼ Plastic       ▼ Angle iron         ▼ Machinable metal       ▼ Copper tubing         ▼ Conduit       ▼ Structural materials									
LENGTH X WIDTH X THICKNESS			100 MODEL #	/TUBE	10/TUBE 2/CARD 5/STANDARD PA				ARD PACK		
12 X 1/2 X .025 300 X 12.7 X .	6 18/2	24/32 HHB1	2182432	T100 302340	HHB121	82432T10 30	2333 H	HCB12182432-2	304092		
12" / 300mm Bi-M 18T	ietal 8% Col		MADE SADE	STAN Cut woo conduit structu variable	DARD od, plast , stainle ral mate pitch te	<b>BI-METAL</b> tic or any mac ss steel tubin erials and mor ooth designs.	HACK chinable g, angle re. Avail	<b>SAW BLA</b> metal, includir iron, copper able in straigh	DE ng tubing, it and		
LENGTH X WIDTH X THICKNESS INCHES MM	трі	100/B MODEL #	OX COMP#	100/TUBI MODEL #	COMP#	10 TUBE COL MODEL#	UMN COMP#	2/CARD 5/STAN MODEL#	DARD PACK COMP#		
mm	22	$\sim$	$\sim$	$\sim$	W	$\sim$	$\sim$	m	$\sim$		
10 X 1/2 X .025 250 X 12.7 X .6	18	HHB1018	360180			HHB1018T10	300186	HHCB1018-2	304009		
10 X 1/2 X .025 250 X 12.7 X .6	24	HHB1024	360241			HHB1024T10	300247	HHCB1024-2	304016		
10 X 1/2 X .025 250 X 12.7 X .6	32	HHB1032	360326			HHB1032T10	300322	HHCB1032-2	304023		
12 X 1/2 X .025 300 X 12.7 X .6	14	HHB1214	362146	HHB1214T100	300100	HHB1214T10	302142	HHCB1214-2	304030		
12 X 1/2 X .025 300 X 12.7 X .6	18	HHB1218	362184	HHB1218T100	300117	HHB1218T10	302180	HHCB1218-2	304047		
12 X 1/2 X .025 300 X 12.7 X .6	24	HHB1224	362245	HHB1224T100	300124	HHB1224T10	302241	HHCB1224-2	304054		
		11104000	00000				302326		004400		
12 X 1/2 X .025 300 X 12.7 X .6	32	HHB1232	362320	HHB12321100	300131	HHB1232110	002020	HHUB1232-2	304108		
12 X 1/2 X .025 300 X 12.7 X .6 Variable Pitch	32	HHB1232	362320	HHB12321100	300131	HHB1232110	302320	HHUB1232-2	304108		
12 X 1/2 X .025 300 X 12.7 X .6 Variable Pitch 12 X 1/2 X .025 300 X 12.7 X .6	32 14/18	ннв1232 ННВ121418	362320	HHB12321100	300131	ННВ1232110	302159	ННСВ1232-2	304108		
12 X 1/2 X .025 300 X 12.7 X .6 Variable Pitch 12 X 1/2 X .025 300 X 12.7 X .6 12 X 1/2 X .025 300 X 12.7 X .6	32 14/18 20/24	HHB1232 HHB121418 HHB122024	362320 362153 362160	HHB12321100 HHB121418T100 HHB122024T100	300131 300148 300155	HHB1232110 HHB121418T10 HHB122024T10	302159 302166	HHCB1232-2 HHCB121418-2 HHCB122024-2	304108 304061 304078		

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## HACK SAW FRAMES

12" / 300mm 20/24T

Ri-Metal 8% Cobalt

#### **MASTER MCCOY®** Another Morse original and the finest high performance hack saw frame you can find. It is stronger, cuts straighter, helps blades last longer and is more comfortable to use than other frames. It also offers more versatility and can make either standard or flush cuts. Model No. HHBF02 / 330022 Includes (1) 12" 20/24 TPI Blade BENEFITS Locking Screw Design allows for storage of extra blades and secures blade for "jab" sawing Multiple Pin Locations for mounting blade at 90° or 45° for standard or flush-cut applications ▼ Alloy Steel Support Beam makes frame stronger and allows over 30,000 PSI tensioning. Ergonomic grip protects fingers and grips comfortably ▼ Tensioning Handle provides extra torque to keep blades rigid for straighter cuts and longer blade life. LIGHTWEIGHT HIGH TENSION FRAME Made from lightweight aluminum, it cuts straight whether making standard or flush cuts. Model No. HHBF01 / 330015 Includes (1) 12" 24 TPI Blade BENEFITS Locking Screw Design allows for storage of extra blades and secures ▼ blade for "jab" sawing Multiple Pin Locations for mounting blade at 90° or 45° for standard V or flush-cut applications Tensioning Handle provides extra torgue for straighter cuts and ▼ longer blade life CONTRACTOR HIGH TENSION CONTRACTOR UTILITY Model No. HHBF04 / 300056 Model No. HHBF06 / 300063 BENEFITS BENEFITS Exceptionally light for handling ease Precise blade tension with wing nut ▼ Aluminum frame offers extra blade blade attachment Adjusts for either 10" or 12" storage space blade sizes

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## **SPECIALTY HACK SAWS**

#### **CARBIDE GRIT ROD SAWS**

The thin cutting profile makes it easy to cut shapes and patterns even in limited access areas with these specialty blades on a standard hack saw frame.

APPLICATIONS				BENEFITS					
	<ul> <li>▼ Glass</li> <li>▼ Harden</li> <li>▼ Strande</li> <li>▼ Ceramin</li> </ul>	ed steel d cable c tile		<ul> <li>Will not tear thin materials</li> <li>Carbide grit is permanently bonded to a steel alloy rod</li> <li>Cuts in both directions</li> </ul>					
DIMENSIONS		25/BO)	K	3/TUBE		1/CARD 5/PACK			
		NODEL #	COMP#	MODEL #	COMP#	MODEL#	COMP#		
10	250	HRTCG10	362214	HRTCG10T03	362351	HRCTCG10	332217		
12	12 300 HRT		362221	HRTCG12TO3	362368	HRCTCG12	332224		
	CARBIE Cut difficult blades on a APPLICA	E GRIT H materials ind standard ha	ACK SAV cluding hydrau ck saw frame	V BLADES ulic hose and stra	nded cables v	vith these specia	ilty		
	<ul> <li>♥ Glass</li> <li>♥ Harden</li> <li>♥ Strande</li> <li>♥ Cerami</li> </ul>	ed steel ed cable c tile		<ul> <li>Blades cut o cutting and</li> <li>Super resist</li> <li>Cuts materia</li> <li>Carbide grit</li> </ul>	n both the pu onger life ant to heat, w als other blade bonded to the	sh and pull stroke /ear, abrasion, or es can't cut e steel blade	or faster "snagging"		
DIMENSIONS		25/BOX		3/TUBE		1/CARD 5/PACK			
		VODEL #		MODEL #		MODEL#	COMP#		
10	10 250 HHT		362191	HHTCG10T03	362337	HHCTCG10	332194		
12	300	HHTCG12	362207	HHTCG12TO3	362344	HHCTCG12	332200		
	A handy car replaceable APPLICA V PVC V Plastic V Wood	BS SAW A bon steel saw spring-temper FIONS	AND REPI for plumbers, ed steel blades BEN V Si re V To	LACEMENT electricians and DIN s. Cuts on the pull s IEFITS pring tempered ca esistance and long poth hardness 655	BLADES (. These saws stroke for quick rbon steel bla life Rc for cutting	are light and comic , accurate cutting de for superior w PVC/ABS	iortable with action. ear		
DES 12" (305mm) Carl 18" (450mm) Carl	CRIPTION	MODEL #     HPVC1201     HPVC1801	<ul> <li>Comp#</li> <li>330107</li> <li>330114</li> </ul>	Mini hand hack saw f	SCRIPTION	MODE	Ide changes		
18 (450mm) Carbon Steel PVC/ABS Saw			330114			AGU N JOAN			
18" (450mm) Carbon Steel Replacement Blade		de HPVCB18	330138	• # Monse 10" / 250mm 24T	Bi-Metal 8% Cobalt	-			

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