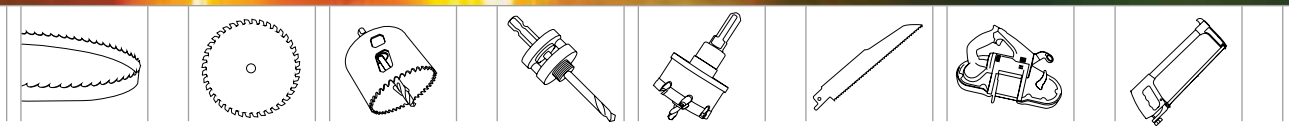
# MORSE®

PRODUCT CATALOG



2018

MORSE®


SP ARC
9"
229mm
14TPI
RBAC914
BI-METAL
METAL
CUTTING
MADE IN U.S.A.

M. K. MORSE

# TABLE OF CONTENTS

# 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

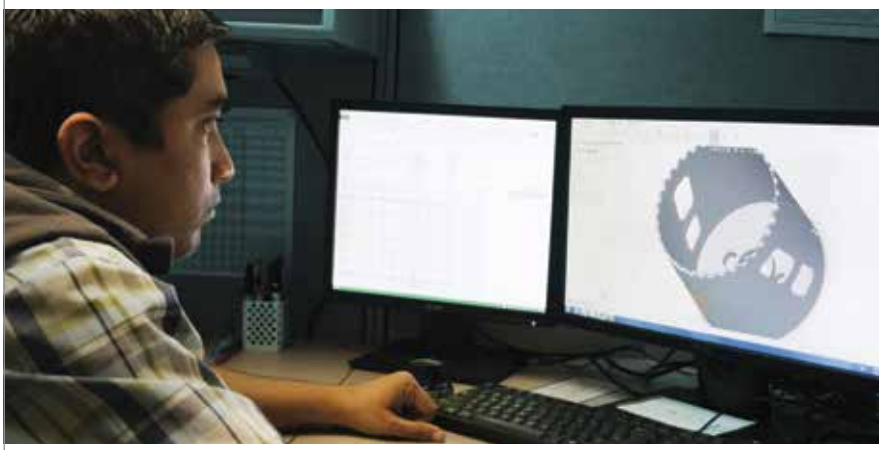
The M. K. Morse Company warrants each new product manufactured and sold by it or one of its authorized distributors only against defects in workmanship and/or materials under normal service, proper installation and use. THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF VERIFIED DEFECTIVE PRODUCTS 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.



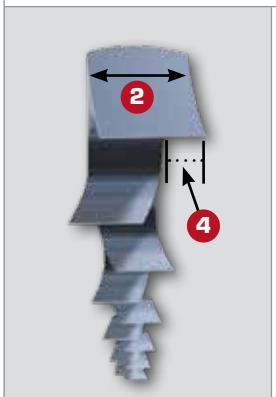
INDUSTRIAL

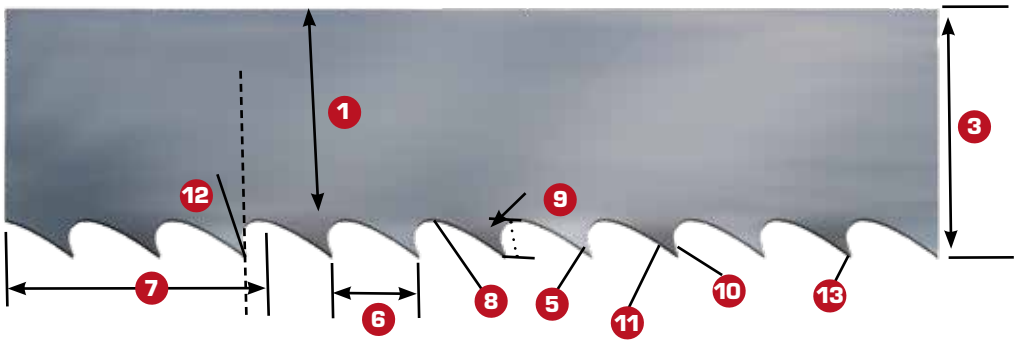
# BAND SAW BLADES

| BLADE TYPE | APPLICATION |
|---|---|
| Carbide Tipped Band Saw Blades for Metal | Specially designed for alloy steel and stainless steel applications for exceptional long life. |
| Bi-Metal Band Saw Blades | Highly fatigue resistant to eliminate premature breakage. Excellent in solid tool steels and small to medium stainless and nickel based alloys. |
| 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. |
| Carbide Tipped Band Saw Blades for Wood | Specially designed for fine-finish wood cutting in applications such as hardwood flooring, millwork and musical tonewoods. |
| Carbon Band Saw Blade | 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

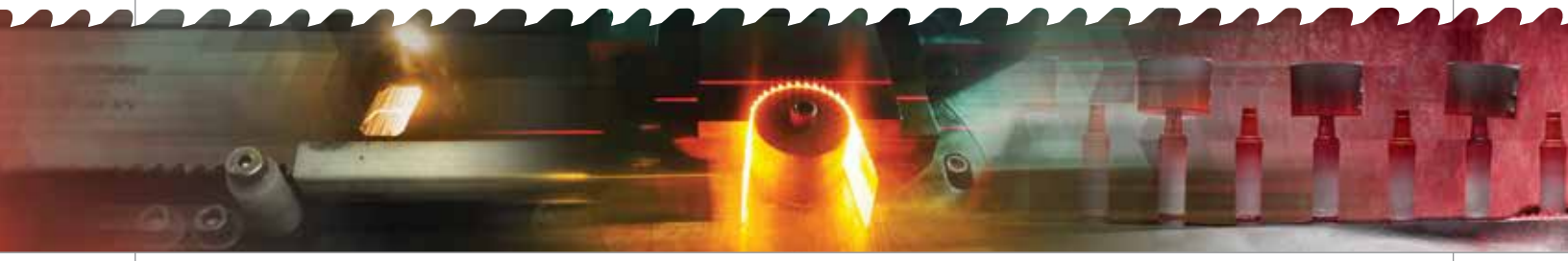
Although it looks like a flat piece of metal with teeth, a quality industrial band saw blade is actually a sophisticated cutting tool. Its ability to efficiently cut through tough metals, composite materials, plastics, and woods depends on a variety of interrelated factors such as the design, spacing 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
3. **Width** ..... The tip of tooth to back of blade
4. **Set** ..... The bending of teeth right or left
5. **Tooth** ..... The cutting portion of the saw blade
6. **Tooth Pitch** ..... The distance from one tooth tip to the next
7. **T.P.I.** ..... The number of teeth per inch measured gullet to gullet
8. **Gullet** ..... The curved area between the tooth points
9. **Gullet Depth** ..... The distance from the tooth tip to the bottom of the gullet
10. **Tooth Face** ..... The surface of the tooth on which the chip is formed
11. **Tooth Flank** ..... The angled back surface of the tooth opposite the tooth face
12. **Tooth Rake Angle** ..... The angle of the tooth face measured with respect to a line perpendicular to the cutting direction of the saw
13. **Tooth Tip** ..... The cutting edge of the saw tooth

# BLADE PART NUMBERS



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

## 1st and 2nd DIGITS — MATERIAL/TOOTH SET STYLE

| Part # | Material Type | Set Style |
|---|---|---|
| 00 | M42 | Positive, 6° Rake |
| 10 | QS HEF Carbon | Hook Raker – Special Extra Heavy Set |
| 11 | QS HEF Carbon | Hook – Heavy Set |
| 13 | QS HEF Carbon | Hook - Double Set Raker |
| 14 | QS HEF Carbon | Wavy |
| 15 | QS HEF Carbon | Skip |
| 16 | QS HEF Carbon | Raker Or Variable Pitch |
| 17 | QS HEF Carbon | QuikSilver WMF - Hook |
| 18 | QS HEF Carbon | Hook |
| 19 | QS HEF Carbon | Hook ETS |
| 20 | QS HEF Carbon | Bright |
| 26 | QS HEF Carbon | Hook – Light Set |
| 30 | Matrix II | Positive Rake |
| 31 | Matrix II | Positive Rake – Heavy Set |
| 33 | Matrix II | 0° Rake - Heavy Set |
| 34 | Matrix II | Wavy |
| 36 | Matrix II | Raker |
| 38 | Matrix II | Hook |
| 39 | Matrix II | 0° Rake |
| 40 | M42 | Positive Rake |
| 41 | The Morse Achiever | 10° Positive Rake |
| 42 | M42 | 0° Rake |
| 43 | The Morse Achiever | 0° Rake |
| 44 | M42 | Wavy |
| 45 | M42 | Straight Pitch – Heavy Set |
| 46 | M42 | Raker |
| 47 | The Morse Achiever | Variable – 6° Positive Rake |
| 48 | M42 | Hook |
| 49 | The Morse Achiever | Heavy Set |
| 51 | Independence II | Heavy Set |
| 55 | Independence II | Variable Pitch |
| 57 | Independence EXS | Variable Pitch |
| 60 | QS Hard Back Carbon | Hook Raker – Special Extra Heavy Set |
| 61 | QS Hard Back Carbon | Hook – Heavy Set |
| 63 | QS Hard Back Carbon | Hook - Double Set Raker |
| 64 | QS Hard Back Carbon | Wavy |
| 65 | QS Hard Back Carbon | Skip |
| 66 | QS Hard Back Carbon | Raker Or Variable Pitch |
| 67 | QS Hard Back Carbon | QuikSilver WMH - Hook |
| 68 | QS Hard Back Carbon | Hook |
| 70 | Tun. Carbide Grit - Continuous | Medium |
| 71 | Tun. Carbide Grit - Continuous | Medium Coarse |
| 72 | Tun. Carbide Grit - Continuous | Coarse |
| 73 | Tun. Carbide Grit - Gulleted | Medium |
| 74 | Tun. Carbide Grit - Gulleted | Medium Coarse |
| 75 | Tun. Carbide Grit - Gulleted | Coarse |
| 80 | M-Factor By Morse - Carbide Tipped | Aluminum Foundry |
| 81 | M-Factor By Morse - Carbide Tipped | Case Hardened |
| 82 | M-Factor By Morse - Carbide Tipped | General Purpose |
| 83 | M-Factor By Morse - Carbide Tipped | Exotic |
| 91 | Challenger | Positive Rake |
| 92 | Challenger | Heavy Set |
| GA | M-Factor By Morse - Carbide Tipped | Wood Production |

## 3rd and 4th DIGITS — BLADE WIDTH

| Part # | Width x Thickness |
|---|---|
| 10 | .25 x .014 |
| 11 | .375 x .014 |
| 20 | .25 x .020 |
| 21 | .50 x .020 |
| 30 | .125 x .025 |
| 31 | .1875 x .025 |
| 32 | .25 x .025 |
| 33 | .375 x .025 |
| 34 | .50 x .025 |
| 40 | .25 x .032 |
| 41 | .375 x .032 |
| 42 | .50 x .032 |
| 43 | .625 x .032 |
| 44 | .75 x .032 |
| 50 | .25 x .035 |
| 51 | .375 x .035 |
| 52 | .50 x .035 |
| 53 | .625 x .035 |
| 54 | .75 x .035 |
| 55 | 1 x .035 |
| 56 | 1.25 x .035 |
| 57 | 2 x .035 |
| 60 | 1 x .042 |
| 61 | 1.25 x .042 |
| 62 | 2 x .042 |
| 70 | 1.25 x .045 |
| 71 | 1.5 x .045 |
| 80 | .75 x .050 |
| 81 | 1.5 x .050 |
| 82 | 2 x .050 |
| 90 | 2 x .063 |
| 91 | 2.625 x .063 |
| 92 | 3 x .063 |

## 5th and 6th DIGITS — TOOTH COUNT

| Part # | TPI |
|---|---|
| 00 | Carbide Grit |
| 01 | 1 |
| 02 | 2 |
| 03 | 3 |
| 04 | 4 |
| 06 | 6 |
| 08 | 8 |
| 10 | 10 |
| 12 | 12 |
| 13 | 10 / 14 |
| 14 | 14 |
| 16 | 14 / 18 |
| 18 | 18 |
| 22 | 20 / 24 |
| 23 | 2 / 3 |
| 24 | 24 |
| 32 | 32 |
| 34 | 3 / 4 |
| 46 | 4 / 6 |
| 57 | 5 / 7 |
| 58 | 5 / 8 |
| 68 | 6 / 10 |
| 80 | 8 / 11 |
| 81 | 8 / 12 |
| 91 | .75 / 1.1 |
| 92 | 1.4 / 2.5 |
| 93 | 1.3 |
| 94 | 1.14 |
| 95 | 1.15 |
| 96 | 1.1 / 1.5 |
| 97 | 1 / 1.5 |
| 98 | 1.5 / 2 |

## 7th, 8th and 9th DIGITS — BLADE LENGTH

Number of feet multiplied by **12** plus additional inches. (Unless using Coil Stock. **Coil Length** (in feet) + **C**) If a **RANDOM LENGTH** coil - use **000R**.

| 10th DIGIT | | FRACTION OF INCH/ MILLIMETER | |
|---|---|---|---|
| Part # | Inch Length | Part # | MM Length |
| 0 | Even Length | 0 | Even Length |
| 1 | 1/8″ | 1 | 3 |
| 2 | 1/4″ | 2 | 6.4 |
| 3 | 3/8″ | 3 | 9.5 |
| 4 | 1/2″ | 4 | 12.7 |
| 5 | 5/8″ | 5 | 16 |
| 6 | 3/4″ | 6 | 19 |
| 7 | 7/8″ | 7 | 22 |
| C | Coil Stock | C | Coil Stock |

## 7th, 8th and 9th DIGITS — METRIC BAND LENGTH

Number of millimeters multiplied by **.03937** equals total number of inches. (Unless using Coil Stock. **Coil Length** (in feet) **+ C**) If a **RANDOM LENGTH** coil - use **000R.**

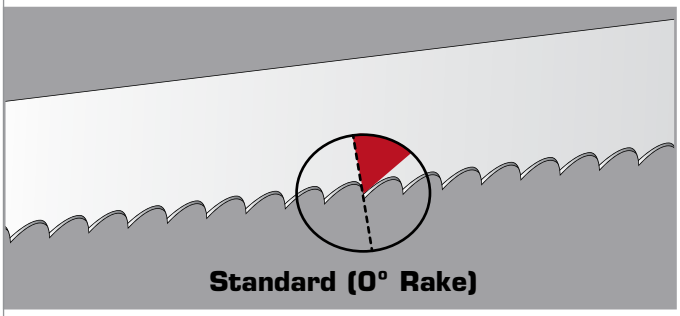
**EXAMPLE 1** — PREVIOUS PART #ZWEN635C23HPII

Therefore: Independence II 2.625 x .063 2/3 100' Coil
Is shown as: **51** **91** **23** **100C**
**NEW PART #519123100C**

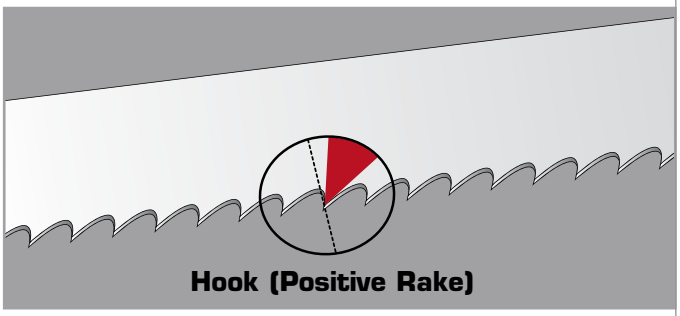
**EXAMPLE 2** — PREVIOUS PART #ZWEFH02M42HS

Therefore: M42 Straight Pitch Heavy Set 3/4 x .035 2 35' 8-1/2"For 1/2" aka 4/8", thus 4
Is shown as: **45** **54** **02** **428** **4**
(35 x 12 = 420)
(420 + 8 = 428)
**NEW PART #** **4554024284**

# TOOTH SET SPECIFICATIONS



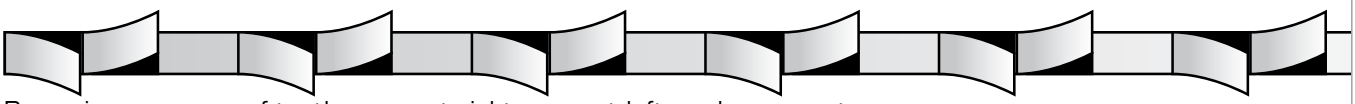
**Standard (0° Rake)**



**Hook (Positive Rake)**

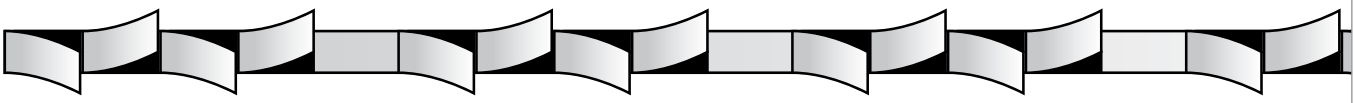
Here's where the blade makes the cut. The tooth design variables include shape, position, set, type and spacing. The combination of these variables will determine whether the blade can move easily through your material without binding or becoming clogged with chips.

## Raker



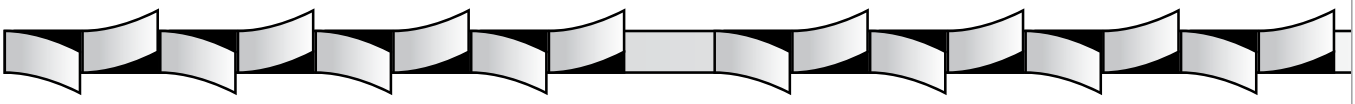
Recurring sequence of teeth - one set right, one set left, and one unset.

## Modified Raker (double set raker)



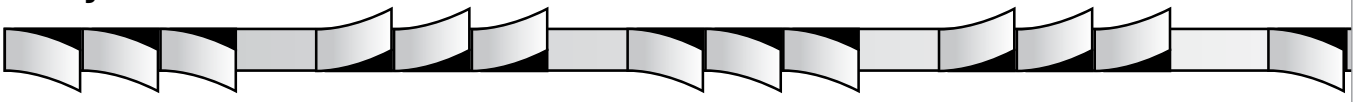
Recurring sequence set left, right, left, right, straight tooth pattern.

## Variable Pitch Modified Raker (Double set raker)



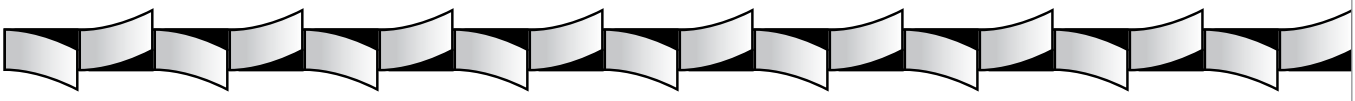
Set sequence depends on the number of teeth in the variable pitch tooth pattern.
Recurring sequence with more than two set teeth before an unset tooth.

## Wavy



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

## Alternate (ETS)



Every tooth set alternately to the left and right.

# 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

| | CARBON STEELS | STRUCTURAL STEELS | ALUMINUM & LT. ALLOY STEELS | ALLOY STEELS MOLD STEELS | TOOL STEELS | STAINLESS STEELS | NICKEL BASE ALLOYS | TITANIUM ALLOYS |
|---|---|---|---|---|---|---|---|---|
| AISI | 1010, 1020, 1045 | A36 | 6061, 2011 2024, 5052 | 4140, P20 | A2, H13, S7 M-SERIES, D2 | 316, 304 17-4 PH, 15-5 PH | INCONEL, MONEL, WASPALLOY | T1-6Al-4V |
| JIS | S20C, S4SC | | 6061, 2011, 2024, 5052 | SCM 440(H), SCM 445(H) | SHD11, SHD12, SKD61, SKS41 | SUS316, SUS304 | NCuP-0 | H4650, H4600 |
| DIN | $C_K$45, C16.8 | | $AlCuPb$, $AlCuMg2$, $AlMgMn0.3$ | $41CrMo4$ | $X155CrVMo0V51$ (G)$X40CrMoV51$ | $X5CrNiMo18$ 10, $X5CrNi18$ 10 | $NiCr19Nb Mo$, $NiCr19Co14Mo4Ti$, | |

MATRIX II

M42

THE MORSE ACHIEVER®

CHALLENGER®

INDEPENDENCE II®

INDEPENDENCE 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 | T1-6Al-4V | | | | | |
| JIS | S20C, S4SC | 6061, 2011, 2024, 5052 | SCM 440(H), SCM 445(H) | SHD11, SHD12, SKD61, SKS41 | SUS316, SUS304 | NCuP-0 | H4650, H4600 | | | | | |
| DIN | $C_K$45, C16.8 | $AlCuPb$, $AlCuMg2$, $AlMgMn0.3$ | $41CrMo4$ | $X155CrVMo0V51$ (G)$X40CrMoV51$ | $X5CrNiMo18$ 10, $X5CrNi18$ 10 | $NiCr19Nb Mo$, $NiCr19Co14Mo4Ti$, | | | | | | |

M-FACTOR BY MORSE® – GP

M-FACTOR – GES

M-FACTOR CH

M-FACTOR – FB/FBS

## MORSE CARBIDE GRIT BAND SAW BLADE APPLICATIONS

SELECTION BASED UPON TARGET APPLICATION

| CAST IRON HARDENED STEEL | CERAMICS FOAMED GLASS | FIBERGLASS | CABLE WIRE ROPE | CEMENT CONCRETE | TIRES & WIRE REINFORCED RUBBER | GRAPHITE | COMPOSITES |
|---|---|---|---|---|---|---|---|

CARBIDE GRIT

# SPARC TECHNOLOGY

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

The 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

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

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

## ADVANTAGES TO USERS

Up to **40% FASTER CUTTING**

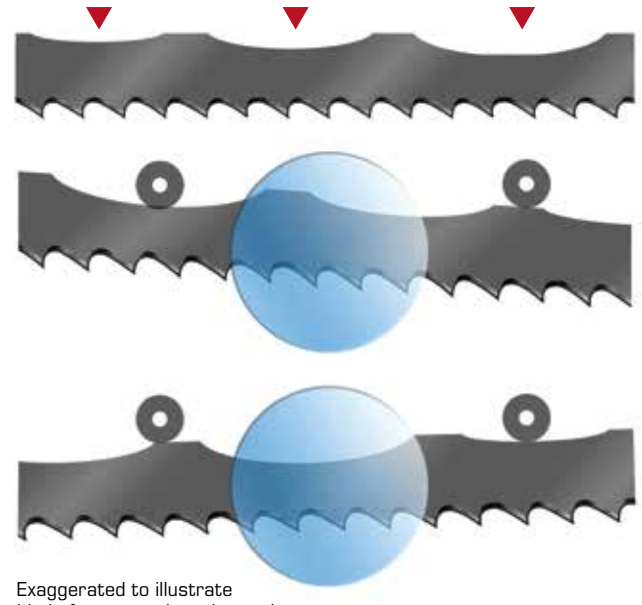
Sparc® alternately reduces the number of teeth in the cut via an arching motion on the saw blade and with less teeth in the cut at the same feed pressure means greater penetration into the workpiece.

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

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

### THE BEST MORSE BLADES USED WITH MORSE SPARC

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



Exaggerated to illustrate blade feature and cutting action.

# CARBIDE TIPPED SAW BLADES

GP

## M-FACTOR BY MORSE® GP (GENERAL PURPOSE)

Specially designed for alloy steel and stainless steel applications for exceptional long life.

### APPLICATIONS

- ▼ Alloy steels
- ▼ Stainless steels (lower grades)

### USERS

- ▼ Steel service centers
- ▼ Forging operations
- ▼ General manufacturing

| WIDTH X THICKNESS | | TEETH PER INCH | | | |
|---|---|---|---|---|---|
| INCHES | MM | .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 | | ▼ | ▼ | ▼ |
| 2 x .063 | 54 x 1.60 | ▼ | ▼ | ▼ | |
| 2 ⅝ x .063 | 67 x 1.60 | ▼ | ▼ | ▼ | |
| 3 x .063 | 80 x 1.60 | ▼ | ▼ | | |

CH

## M-FACTOR BY MORSE® CH (CASE HARDENED)

Designed for long life and fast, smooth cutting of chrome plated, case hardened hydraulic shaft specifications.

### APPLICATIONS

- ▼ Hydraulic shafts
- ▼ Case hardened shafts and shapes
- ▼ Heat treated thick wall tubing

### USERS

- ▼ Steel service centers
- ▼ Automotive parts makers
- ▼ Cylinder manufacturers
- ▼ Bearing manufacturers

| WIDTH X THICKNESS | | TEETH PER INCH | | | |
|---|---|---|---|---|---|
| INCHES | MM | 1.5/2 | 2/3 | 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 | ▼ | ▼ | | ▼ |
| 2 x .063 | 54 x 1.60 | | ▼ | | |


## M-FACTOR BY MORSE® GES

This blade is designed specifically for exotic material and ferrous steel, with particular emphasis on thick wall and solid billet applications, for exceptionally long life. The patent pending blade design minimizes heat and vibration to focus the energy on cutting the material.

### APPLICATIONS

- ▼ All stainless steels
- ▼ Difficult to cut alloy steels
- ▼ Tool steels
- ▼ Titanium
- ▼ Nickel based alloys
- ▼ Hastelloy
- ▼ Inconel
- ▼ Monel

### USERS

- ▼ Steel service centers
- ▼ Forging operations
- ▼ Specialized manufacturing

| WIDTH X THICKNESS | | TEETH PER INCH | | | |
|---|---|---|---|---|---|
| INCHES | MM | .75/1 | 1.5/2 | 2/3 | 3/4 |
| 1 ¼ x .042 | 34 x 1.10 | | | | ▼ |
| 1 ½ x .050 | 41 x 1.30 | | ▼ | ▼ | ▼ |
| 2 x .063 | 54 x 1.60 | | ▼ | ▼ | ▼ |
| 2 ⅝ x .063 | 67 x 1.60 | ▼ | ▼ | ▼ | |
| 3 x .063 | 80 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

- ▼ Aluminum castings: gates, risers, extrusions
- ▼ Abrasive woods plywood

### USERS

- ▼ Aluminum foundries
- ▼ Graphite manufacturers
- ▼ Furniture makers

| WIDTH X THICKNESS | | TEETH PER INCH | |
|---|---|---|---|
| INCHES | MM | 3 | 3 SET |
| ½ x .025 | 12.7 x 0.60 | ▼ | |
| ¾ x .035 | 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
Made In USA

## INDEPENDENCE EXS® 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

### 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 THICKNESS | | TEETH PER INCH | | | | |
|---|---|---|---|---|---|---|
| INCHES | MM | 1/1.5 | 1.5/2 | 2/3 | 3/4 | 4/6 |
| 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 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

- ▼ 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 THICKNESS | | TEETH PER INCH | | | |
|---|---|---|---|---|---|
| INCHES | MM | 2/3 | 3/4 | 4/6 | 5/7 |
| 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

THE MORSE ACHIEVER®

## THE MORSE ACHIEVER® PRODUCTION BI-METAL BLADES

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

### APPLICATIONS

- ▼ Production cutting
- ▼ Material range from carbon to stainless steel
- ▼ Layer and bundle cuts: 1018, 4140, 4340 tool steels stainless steels
- ▼ Large profiles and solids carbon steels alloy tool steel stainless steel

### BLADE FEATURES

- ▼ Best performance in a wide range of materials
- ▼ Proprietary edge wire
- ▼ High fatigue steel backer
- ▼ Consistent performance from blade to blade
- ▼ Exceptional tooth durability and fatigue resistance

| WIDTH X THICKNESS INCHES | MM | TEETH PER INCH .75/1.1 | 1.1/1.5 | 1.5/2 | 1.4/2.5 | 2/3 | 3/4 | 4/6 | 5/7 | 5/8 | 6/10 | 8/12 | 10/14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Variable Pitch - 0° Rake** | | | | | | | | | | | |
| ¾ 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 | | | | | ▼ | ▼ | | | | | | |
| | | **Variable Pitch - Positive Rake** | | | | | | | | | | | |
| 1 x .035 | 27 x .90 | | | | | ▼ | ▼▼ | ▼▼ | ▼ | | | | |
| 1¼ x .042 | 34 x 1.07 | | | | ▼ | ▼ | ▼▼ | ▼▼ | ▼ | | | | |
| 1½ x .050 | 41 x 1.27 | | | | ▼ | ▼▼ | ▼▼▼ | ▼▼▼ | | | | | |
| 2 x .063 | 54 x 1.60 | | | | ▼ | ▼ | ▼ | | | | | | |
| 2 5/8 x .063 | 67 x 1.60 | ▼ | ▼ | ▼ | | ▼ | ▼ | | | | | | |
| 3 x .063 | 80 x 1.60 | ▼ | ▼ | ▼ | | | | | | | | | |

▼ Heavy Set ▼ 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
- ▼ I-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
- ▼ Longer life in interrupted cuts
- ▼ Straighter interrupted and bundle cuts

| WIDTH X THICKNESS | | TEETH PER INCH | | | | |
|---|---|---|---|---|---|---|
| INCHES | MM | 2/3 | 3/4 | 4/6 | 5/7 | 8/11 |
| ½ x .025 | 12.7 x .64 | | | | | ▼ |
| ¾ 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 THICKNESS | | TEETH PER INCH | | | | | |
|---|---|---|---|---|---|---|---|
| INCHES | MM | 1.4/2.5 | 2/3 | 3/4 | 4/6 | 5/7 | 8/11 |
| ½ x .025 | 12.7 x .64 | | | | | | ▼ |
| ¾ 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 THICKNESS | | TEETH PER INCH | | | | | | |
|---|---|---|---|---|---|---|---|---|
| INCHES | MM | 2/3 | 3/4 | 4/6 | 5/8 | 6/10 | 8/12 | 10/14 |
| ¼ x .025 | 6.4 x .64 | | | | | | | ▼ |
| ¼ x .035 | 6.4 x .90 | | | | | | | ▼ |
| ⅜ x .035 | 9.5 x .90 | | | | | | | ▼ |
| ½ x .025 | 12.7 x .64 | | | | | | ▼ | |
| ½ x .035 | 12.7 x .90 | | | | | | | ▼ |
| ¾ 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 INCHES | MM | TEETH PER INCH 4 | 6 | 8 | 10 | 14 | 10 | 1 | 1.14 | 2 | 3 | 4 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Raker | | | | | Wavy | Hook | | | | | |
| ¼ x .025 | 6.4 x .64 | | | | | ▼ | | | | | | | ▼ |
| ¼ x .035 | 6.4 x .90 | | | | ▼ | ▼ | | | | | | | |
| ⅜ x .035 | 9.5 x .90 | | | | ▼ | | | | | | | ▼ | |
| ½ x .025 | 12.7 x .64 | | | | | | | | | | | | ▼ |
| ½ x .035 | 12.7 x .90 | | | | ▼ | ▼ | | | | | ▼ | ▼ | ▼ |
| 1 x .035 | 27 x .90 | ▼ | ▼ | ▼ | | | ▼ | | | ▼ | ▼ | | |
| 1¼ x .042 | 34 x 1.07 | | | | | | | | ▼ | | ▼ | ▼ | |
| 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.


## 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

- ▼ Tool and die shops
- ▼ Die blocks
- ▼ Tool steels
- ▼ "D" grade steels
- ▼ "Super" alloys
- ▼ Inconel
- ▼ Waspalloy
- ▼ Hastelloy
- ▼ Tough materials
- ▼ Typically used on vertical machines

### BLADE FEATURES

- ▼ Low cost-per-cut
- ▼ High heat and wear resistance
- ▼ Wide selection of blade type and tooth sizes
- ▼ Available in either straight pitch or variable pitch teeth
- ▼ M42 die bands offer high wear and heat resistance and are best suited for cutting difficult-to-machine tool steel and die blocks

| WIDTH X THICKNESS INCHES | MM | TEETH PER INCH 10 | 14 | 4 | 6 | 8/11 | 8/12 | 10/14 |
|---|---|---|---|---|---|---|---|---|
| | | Raker | | Hook | | Variable | | |
| ¼ x .025 | 6.4 x .64 | | ▼ | | ▼ | | | ▼ |
| ¼ x .035 | 6.4 x .90 | ▼ | ▼ | | | | | ▼ |
| ⅜ x .035 | 9.5 x .90 | ▼ | | ▼ | | | | ▼ |
| ½ x .025 | 12.7 x .64 | | | | ▼ | ▼ | ▼ | |
| ½ x .035 | 12.7 x .90 | ▼ | ▼ | ▼ | ▼ | ▼ | | ▼ |

# BI-METAL SAW BLADES

## MATRIX II

### MATRIX II BI-METAL BLADES

Matrix II blades are ideal for cutting materials with easy to moderate machinability. Matrix II bi-metal band saw blades offer good value in maintenance shops and small fabricating shops.

### APPLICATIONS

- ▼ Carbon steels
- ▼ Structural steels – A36
- ▼ Single piece
- ▼ Bundles
- ▼ Stacked pieces
- ▼ Interrupted cuts of:
  - Pipe and tubing
  - Angle and channel
  - Small and medium band saw machines

### BLADE FEATURES

- ▼ Variable pitch teeth handle a wide range of application sizes
- ▼ Good general purpose metal cutting blade
- ▼ Moderate cost-per-blade low cost-per-cut

### VARIABLE PITCH - POSITIVE RAKE

| WIDTH X THICKNESS | | TEETH PER INCH | | |
|---|---|---|---|---|
| INCHES | MM | 2/3 | 3/4 | 4/6 |
| ¾ 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 | ▼ | ▼ | ▼ |

### VARIABLE PITCH - 0° RAKE

| WIDTH X THICKNESS | | TEETH PER INCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| INCHES | MM | 4/6 | 5/8 | 6/10 | 8/12 | 10/14 | 12/16 | 14/18 | 20/24 |
| ⅜ x .025 | 9.5 x .64 | | | | | ▼ | | | |
| ½ x .020 | 12.7 x .50 | | | | | ▼ | ▼ | ▼ | ▼ |
| ½ x .025 | 12.7 x .64 | | | ▼ | ▼ | ▼ | ▼ | ▼ | |
| ½ x .035 | 12.7 x .90 | | | ▼ | | ▼ | | | |
| ⅝ x .035 | 16 x .90 | | | | | ▼ | | | |
| ¾ x .035 | 19 x .90 | | | ▼ | ▼ | ▼ | | | |
| 1 x .035 | 27 x .90 | ▼ | ▼ | ▼ | ▼ | ▼ | | | |
| 1¼ x .042 | 34 x 1.07 | | ▼ | ▼ | | | | | |

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

## STRAIGHT PITCH

| WIDTH X THICKNESS INCHES | WIDTH X THICKNESS MM | TEETH PER INCH 6 | 8 | 10 | 14 | 18 | 24 | 14 | 18 | 24 | 1.14 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Raker | | | | | | Wavy | | | Hook | | |
| 3/8 x .025 | 9.5 x .64 | | ▼ | ▼ | ▼ | | | | | | | | ▼ |
| 1/2 x .020 | 12.7 x .50 | | | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | | | |
| 1/2 x .025 | 12.7 x .64 | ▼ | | ▼ | ▼ | ▼ | | | | | | ▼ | ▼ |
| 3/4 x .035 | 19 x .90 | ▼ | ▼ | ▼ | ▼ | | | | | | | ▼ | |
| 1 x .035 | 27 x .90 | ▼ | ▼ | ▼ | ▼ | | | | | | | ▼ | |
| 1 1/4 x .042 | 34 x 1.07 | ▼ | | | | | | | | | ▼ | | |

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

# MATRIX II

## MATRIX II 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

- ▼ Tool and die shops
- ▼ Die blocks
- ▼ Tool steels
- ▼ "D" grade steels
- ▼ Tough materials
- ▼ Typically used on vertical machines

### BLADE FEATURES

- ▼ Low cost-per-cut
- ▼ High heat and wear resistance
- ▼ Wide selection of blade type and tooth sizes
- ▼ Available in with either straight pitch or variable pitch teeth
- ▼ Matrix II die bands, with high shock resistance, are better suited for thinner sections

| WIDTH X THICKNESS INCHES | WIDTH X THICKNESS MM | TEETH PER INCH 6 | 8 | 10 | 14 | 18 | 3 | 4 | 6/10 | 8/12 | 10/14 | 12/16 | 14/18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Raker | | | | | Hook | | Variable | | | | |
| 3/8 x .025 | 9.5 x .64 | | ▼ | ▼ | ▼ | | | ▼ | | | ▼ | | |
| 1/2 x .025 | 12.7 x .64 | ▼ | | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| 1/2 x .035 | 12.7 x .90 | | | | | | | | ▼ | | ▼ | | |

# CARBIDE GRIT SAW BLADES

TUNGSTEN CARBIDE GRIT

## 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.

### APPLICATIONS

- ▼ 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 THICKNESS | | GRIT SIZE | |
|---|---|---|---|
| INCHES | MM | MEDIUM | COARSE |
| ¼ x .020 | 6.4 x 50 | ▼ | |
| ½ x .025 | 12.7 x .64 | ▼ | |
| 1 x .035 | 27 x .90 | ▼ | ▼ |

### CARBIDE GRIT (GULLETED)

| WIDTH X THICKNESS | | GRIT SIZE | | |
|---|---|---|---|---|
| INCHES | MM | Medium | Medium Coarse | Coarse |
| ⅜ x .025 | 9.5 x .64 | ▼ | ▼ | |
| ½ x .025 | 12.7 x .64 | ▼ | ▼ | |
| ¾ x .032 | 19 x .80 | | ▼ | ▼ |
| 1 x .035 | 27 x .90 | | ▼ | ▼ |
| 1¼ x .042 | 34 x 1.07 | | | ▼ |

# QUIKSILVER CARBIDE TIPPED BLADES

QUIKSILVER® CT

## WOOD CUTTING QUIKSILVER® CARBIDE TIPPED BAND SAW BLADES

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

### APPLICATIONS

- ▼ Hardwood flooring
- ▼ Millwork
- ▼ Musical tonewoods
- ▼ MDF
- ▼ Other specialty wood cutting

### BLADE FEATURES

- ▼ Triple chip tooth design for smooth finishes with less sanding
- ▼ Carbide tips provide exceptionally long blade life
- ▼ Triple chip design allows solutions to cutting the hardest exotic wood species
- ▼ Available in straight and variable pitch tooth patterns

| WIDTH X THICKNESS | | TEETH PER INCH | | | | |
|---|---|---|---|---|---|---|
| INCHES | MM | 3 | .75/1 | 1.5/2.0 | 2/3 | 3/4 |
| | | Straight | Variable | | | |
| ½ x .025 | 12.7 x .64 | ▼ | | | | |
| ¾ x .035 | 19 x .90 | ▼ | | | | |
| 1 x .035 | 27 x .90 | ▼ | | | ▼ | ▼ |
| 1¼ x .042 | 34 x 1.07 | ▼ | | ▼ | | |
| 1½ x .050 | 41 x 1.30 | | | ▼ | | |
| 2 x .042 | 54 x 1.07 | | ▼ | | | |

# QUIKSILVER BI-METAL BLADES

## QUIKSILVER® BI-METAL WOOD BLADES

QUIKSILVER® B1/B2

Designed for wood and wood based material production cutting. Maintenance shop cutting of low alloy ferrous and non-ferrous metals.

### APPLICATIONS

- ▼ Vertical and horizontal machines for resaw
- ▼ Portable saw mills
- ▼ Contour cutting on vertical machines

### BLADE FEATURES

- ▼ Bi-Metal material provides longer blade life than carbon bands
- ▼ High heat and wear resistance for longer life
- ▼ Can be resharpened for longer tooth life

### DIFFERENCES

**B1** – Commonly used blade for softwood to semi-hard wood
**B2** – Commonly used blade for hardwood

### WOOD TYPE

- ▼ Pine, ash, poplar
- ▼ Oak, walnut, cherry, maple

| WIDTH X THICKNESS | | 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 |
| | | Variable | | | | Raker | Hook | | | | | | |
| **QuikSilver B1 Production / Wood Mill** | | | | | | | | | | | | | |
| ¼ x .025 | 6.4 x .64 | | | | | | | | | | | | ▼ |
| ⅜ x .025 | 9.5 x .64 | | | | | | | | | | | ▼ | |
| ½ x .025 | 12.7 x .64 | | | | | ▼ | | | | | ▼ | ▼ | |
| ½ x .035 | 12.7 x .64 | | | | | | | | | | | ▼ | |
| ¾ 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 | | | ▼ | | | | | | | | | |
| **QuikSilver B2 Production / Wood Mill** | | | | | | | | | | | | | |
| 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 | ▼ | | | | | | | | | | | |

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

# QUIKSILVER CARBON BLADES

## QUIKSILVER® HEF/HB WOOD MILL BLADES

Versatile blades offer high value in a variety of wood cutting applications. Blades are manufactured from a single piece of high carbon steel with individually hardened tooth tips.

### APPLICATIONS

- ▼ Portable and stationary wood mills
- ▼ Single head and multi-head resaw systems
- ▼ Scragg mills

### BLADE FEATURES

- ▼ Available in both flex back and hard back
- ▼ Flex back blades are more fatigue resistant
- ▼ Hard back blades offer straighter cuts
- ▼ Low cost-per-blade/low cost-per-cut
- ▼ Can be resharpened for longer tooth life

### HARD EDGE HARD BACK - (HB)

| WIDTH X THICKNESS | | TEETH PER INCH |
|---|---|---|
| INCHES | MM | 1.3 |
| | | Hook |
| 1 x .035 | 27 x .9 | ▼ |
| 1¼ x .035 | 32 x .9 | ▼ |
| 1¼ x .042 | 32 x 1.1 | ▼ |

### HARD EDGE FLEX BACK - (HEF)

| WIDTH X THICKNESS | | TEETH PER INCH | | | |
|---|---|---|---|---|---|
| INCHES | MM | 1 | 1.14 | 1.3 | 2 |
| | | Hook | | | |
| 1 x .035 | 27x .9 | | | ▼ ▼ | ▼ |
| 1 x .042 | 27 x 1.1 | | | ▼ | ▼ |
| 1¼ x .035 | 32 x .9 | | ▼ | ▼ | ▼ |
| 1¼ x .042 | 32 x 1.1 | ▼ | ▼ ▼ | ▼▼ | |
| 1½ x .045 | 38 x 1.1 | | ▼ | | |
| 2 x .035 | 51 x .9 | | ▼ | ▼ | |
| 2 x .042 | 51 x 1.1 | | ▼ | | |

▼ Heavy Set ▼ Bright Finish

## QUIKSILVER® WOOD MILL BLADES

Ideal for wood cutting applications where blade fatigue problems are an increased concern.

### APPLICATIONS

- ▼ Wood cutting with increased fatigue resistance

### BLADE FEATURES

- ▼ Made from a single piece of alloy steel with hardened tooth tips
- ▼ Available in both flex back and hard back
- ▼ Hard back blades offer straighter cuts
- ▼ Low cost-per-blade/low cost-per-cut
- ▼ Can be resharpened for longer tooth life

| WIDTH X THICKNESS | | TEETH PER INCH | | | |
|---|---|---|---|---|---|
| INCHES | MM | 1 | 1.14 | 1.3 | 2 |
| | | Hook | | | |
| 1 x .035 | 27 x .9 | | | ▼▼ | ▼▼ |
| 1¼ x .042 | 32 x 1.1 | ▼▼ | ▼▼ | ▼▼▼ | |
| 1½ x .045 | 38 x 1.1 | ▼▼ | ▼▼ | ▼▼ | |
| 1½ x .055 | 38 x 1.4 | | ▼ | | |
| 2 x .035 | 51 x .9 | ▼▼ | ▼▼ | ▼▼ | |
| 2 x .042 | 51 x 1.1 | ▼▼ | ▼▼ | ▼ | |
| 2 x .055 | 51 x 1.4 | ▼ | | | |

▼ WMF flexback ▼ WMH hardback ▼ WMH hardback - light set (.019/side)

# QUIKSILVER CARBON BLADES

## QUIKSILVER® PALLET DISMANTLING BLADES

Specially designed to withstand the rough service required on dismantling machines while cutting through pallet nails and staples. Lower cost blades are available in a special grade of carbon steel to enhance their durability in a variety of dismantling machines.

### APPLICATIONS

- All types of band saw pallet dismantling machines

### BLADE FEATURES

- Low cost-per-cut
- Rugged durability
- Available in bi-metal Matrix II and M42 specifications as well as a special grade of carbon steel
- Made with either straight pitch or variable pitch teeth

**M42 BI-METAL**

| WIDTH X THICKNESS | | TEETH PER INCH | |
|---|---|---|---|
| INCHES | MM | 5/8 | |
| | | Variable | |
| 1¼ x .042 | 32 x 1.1 | ▼ | |

**MATRIX II BI-METAL**

| WIDTH X THICKNESS | | TEETH PER INCH | |
|---|---|---|---|
| INCHES | MM | 5/8 | 6 |
| | | Variable | Raker |
| 1¼ x .042 | 32 x 1.1 | ▼ | ▼ |

**CARBON HARD BACK (HB) SPECIAL**

| WIDTH X THICKNESS | | TEETH PER INCH | | |
|---|---|---|---|---|
| INCHES | MM | 5/7 | 5/8 | 6 |
| | | Variable | | Raker |
| 1¼ x .042 | 32 x 1.1 | ▼ | ▼ | ▼ |

## QUIKSILVER® (HB) HARDBACK BLADES

Stiffer blades offer straighter cuts in wood and metal cutting. On metals, they are used for short production and maintenance applications.

### APPLICATIONS

- ▼ Low alloy, easy-to-machine ferrous metals
- ▼ Non-ferrous metals:
  - Brass/copper
  - Bronze
  - Aluminum
  - Lead
- ▼ Wood
- ▼ Plastic
- ▼ Cork
- ▼ Composition board
- ▼ Plywood

### BLADE FEATURES

- ▼ Manufactured from a single piece of high carbon steel with individually hardened tooth tips
- ▼ Low cost-per-blade/low cost-per-cut in wood and similar materials
- ▼ In metals; low cost-per-blade/higher cost-per-cut than bi-metal
- ▼ Stiffer than hard edge flex (HEF) blades due to a hardened and tempered backer
- ▼ Straighter cuts with heavier feed pressure than carbon HEF
- ▼ Will accept heavier feed pressure than carbon HEF
- ▼ Good on easy-to-machine metals and other easy-to-cut materials
- ▼ Not recommended for blade speeds exceeding 4000 sfm

| WIDTH X THICKNESS | | TEETH PER INCH | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INCHES | MM | 6 | 8 | 10 | 14 | 18 | 24 | 10 | 12 | 14 | 18 | 24 | 32 | 1.3 | 2 | 3 | 4 | 6 | 3 | 4 | 6 |
| | | Raker | | | | | | Wavy | | | | | | Hook | | | | | Skip | | |
| 3/16 x .025 | 4.8 x .64 | | | | | | | | | | | | | | | | | | | ▼ | |
| ¼ x .025 | 6.4 x .64 | | | ▼ | ▼ | ▼ | ▼ | | | | | | ▼ | | | | ▼ | ▼ | | ▼ | ▼ |
| 3/8 x .025 | 9.5 x .64 | | ▼ | ▼ | ▼ | ▼ | | | | | | | | | | ▼ | ▼ | ▼ | ▼ | ▼ | |
| ½ x .020 | 12.7 x .50 | | | | ▼ | | | | | | | | | | | | | | | | |
| ½ x .025 | 12.7 x .64 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | | ▼ | ▼ | ▼ | | | | ▼ | ▼ | ▼ | | ▼ | |
| 5/8 x .032 | 16 x .80 | | | ▼ | ▼ | | | | | | | | | | | | ▼ | | | | |
| ¾ x .032 | 19 x .80 | ▼ | ▼ | ▼ | ▼ | ▼ | | ▼ | ▼ | ▼ | ▼ | | | | ▼ | ▼ | | ▼ | ▼ | ▼ | |
| 1 x .035 | 27 x .90 | ▼ | ▼ | ▼ | ▼ | | | | | | | | | ▼ | ▼ | ▼ | ▼ | | | | |
| 1 x .042 | 27 x 1.1 | | | | | | | | | | | | | ▼ | | | | | | | |
| 1¼ x .035 | 32 x .90 | | | | | | | | | | | | | ▼ | | | | | | | |
| 1¼ x .042 | 32 x 1.1 | ▼ | | | | | | | | | | | | ▼ | | | | | | | |

▼ **Standard Set** ▼ **Double Set Raker**
regular offset

# QUIKSILVER CARBON BLADES

## QUIKSILVER® (HEF) FLEXBACK BLADES

Ideal for wood production cutting and short production/ maintenance/general purpose applications using low alloy steel and non-ferrous metals

### APPLICATIONS

- ▼ Wood
- ▼ Plastic
- ▼ Cork
- ▼ Composition board
- ▼ Plywood
- ▼ Aluminum
- ▼ Non-ferrous metals
- ▼ Low alloy steel

### BLADE FEATURES

- ▼ Manufactured from a single piece of high carbon steel with individually hardened tooth tips
- ▼ More fatigue resistant than carbon hard back
- ▼ Low cost-per-blade/low cost-per-cut in wood
- ▼ Low cost-per-blade/higher cost-per-cut in tougher materials
- ▼ Can be run at speeds up to 15,000 sfm

| WIDTH X THICKNESS | | TEETH PER INCH | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | Raker | | | | | | | Wavy | | | | Hook | | | | | | | Skip | | |
| 1/8 x .025 | 3 x .64 | | | | | ▼ | ▼ | | | | | | | | | | | | | | | |
| 3/16 x .025 | 4.8 x .64 | | | | ▼ | ▼ | | | | | | | | | | | | | | | ▼ | |
| 1/4 x .014 | 6.4 x .30 | | | | | ▼ | ▼ | | | | ▼ | | | | | | | | | | | ▼ |
| 1/4 x .020 | 6.4 x .50 | | | | | | | | | | | | | | | | | | | | | ▼ |
| 1/4 x .025 | 6.4 x .64 | | | ▼ | ▼ | ▼ | ▼ | ▼ | | | | ▼ | | | | | | ▼ | ▼ | | ▼ | ▼ |
| 3/8 x .014 | 9.5 x .30 | | | | | ▼ | | | | | | | | | | | | | | | | ▼ |
| 3/8 x .025 | 9.5 x .64 | | | ▼ | ▼ | ▼ | ▼ | ▼ | | | | | | | | | ▼ | ▼ | ▼ | ▼ | ▼ | |
| 3/8 x .032 | 9.5 x .80 | | | | | | | | | | | | | | | ▼▼ | | | | | | |
| 1/2 x .020 | 12.7 x .50 | | ▼ | | ▼ | | | | ▼ | ▼ | ▼ | | | | | | ▼ | | | | | |
| 1/2 x .025 | 12.7 x .64 | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | | | | | ▼ | ▼▼ | ▼▼ | ▼ | ▼ | |
| 5/8 x .032 | 16 x .80 | | | | ▼ | | | | ▼ | | | | | | | | ▼ | ▼ | ▼ | | | |
| 3/4 x .032 | 19 x .80 | | ▼ | ▼ | ▼ | ▼ | ▼ | | ▼ | | | | | | | ▼ | ▼ | ▼ | ▼ | ▼ | ▼ | |
| 3/4 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 | | | | | | | | | | | | | | ▼ | | | | | | | |
| 1 1/4 x .035 | 32 x .90 | | | | | | | | | | | | | ▼ | ▼ | ▼ | | | | | | |
| 1 1/4 x .042 | 32 x 1.07 | | | | | | | | | | | | ▼ | ▼ | ▼ | | | | | | | |
| 1 1/4 x .042 *Bright | 32 x 1.07 | | | | | | | | | | | | | ▼ | ▼ | | | | | | | |
| 1 1/2 x .045 | 38 x 1.14 | | | | | | | | | | | | | ▼ | | | | | | | | |
| 2 x .035 | 51 x .90 | | | | | | | | | | | | | ▼ | ▼ | | | | | | | |
| 2 x .042 | 51 x 1.07 | | | | | | | | | | | | ▼ | ▼ | | | | | | | | |

▼ Standard Set ▼ Heavy Set ▼ Double Set Raker

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

## QUIKSILVER® CARBON FURNITURE BLADES

Ideal for use on large, high-speed vertical cutting band machines used in the furniture industry. Blades offer faster cutting while maintaining precision required in the furniture industry.

### APPLICATIONS

- ▼ Wood
- ▼ Chip board
- ▼ Plywood
- ▼ Cardboard
- ▼ Used on large, vertical, high-speed wood cutting machines

### BLADE FEATURES

- ▼ Special ETS (every tooth set) pattern and aggressive 10° hook tooth design for faster cutting with longer tooth tip life
- ▼ Flexible backer resists fatigue but allows contour control required in furniture manufacturing
- ▼ Manufactured from a single piece of high carbon steel with individually hardened tooth tips
- ▼ Thicker blade is stiffer for more control
- ▼ Low cost-per-blade/low cost-per-cut

| WIDTH X THICKNESS | | TEETH PER INCH | | | | | |
|---|---|---|---|---|---|---|---|
| INCHES | MM | 3 | 4 | 2 | 3 | 4 | 6 |
| | | Hook ETS | | Hook Raker Set | | | |
| ¼ x .025 | 6.4 x .64 | | ▼ | | | ▼ | ▼ |
| ¼ x .032 | 6.4 x .80 | | ▼ | | | | |
| ⅜ x .025 | 9.5 x .64 | ▼ | | | ▼ | ▼ | ▼ |
| ⅜ x .032 | 9.5 x .80 | ▼ | ▼ | ▼ | | | |
| ½ x .025 | 12.7 x .64 | ▼ | ▼ | | ▼ | ▼▼ | ▼▼ |
| ½ x .032 | 12.7 x .80 | ▼ | ▼ | | | | |
| ⅝ x .032 | 16.0 x .80 | | | | ▼ | ▼ | ▼ |
| ¾ x .032 | 19.0 x .80 | ▼ | ▼ | | ▼ | ▼ | ▼ |

▼ Standard Set ▼ ETS Set ▼ Heavy Set ▼ D-Double Set Raker

### MINIMUM RADIUS CUT FOR A GIVEN BLADE WIDTH

| Blade Width | Minimum Radius | Materials Thickness 1˝/25mm |
|---|---|---|
| 1"/25mm | 7-1/4"/184mm | |
| ¾"/19mm | 5-7/16"/138mm | |
| ⅝"/16mm | 3-3/4"/95mm | |
| ½"/13mm | 2-1/2"/63mm | |
| ⅝"/10mm | 1-1/4"/32mm | |
| ¼"/6mm | 5/8"/16mm | |
| 3/16"/5mm | 3/8"/10mm | |
| ⅛"/3mm | 7/32"/5.5mm | |

# 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
- AC or battery operation
- Made in U.S.A.

# BAND SAW TENSION GAUGE

## BAND SAW TENSION GAUGE

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

### BENEFITS

- Optimal blade life
- Precise cutting results
- Reduces the occurrence of machine damage due to blade over-tensioning

### FEATURES

- Durable cast/powder coated body
- Calibrated gauge measures in $lb/in^2$ as well as $kg/cm^2$
- Quality storage box with protective foam inserts

| ID | Description | Model # | Part # |
|---|---|---|---|
| 124 | Tension Gauge | TENSIONGAUGE | 005005 |

# BAND SAW TOOTH PITCHES

## Variable Pitch

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

**ADVANTAGES**
▼ Excellent chip carrying capacity
▼ Reduces harmonic vibration

**BENEFITS**
▼ Improves blade life
▼ Reduces noise
▼ Cuts smoother and more efficiently

## Variable Pitch Positive Rake

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

**ADVANTAGES**
▼ Better chip formation
▼ Excellent chip carrying capacity
▼ Reduces harmonic vibration
▼ More aggressive cutting

**BENEFITS**
▼ Cuts smoother, cuts faster
▼ Wide range of applications
▼ Reduces noise
▼ Easier chip generation

## Standard Raker

▼ Equally spaced teeth
▼ 0° Rake angle

**ADVANTAGES**
▼ Excellent chip carrying capacity

**BENEFITS**
▼ General purpose

## Skip

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

**ADVANTAGES**
▼ Excellent chip carrying capacity
▼ Provide coarse pitch on narrow bands
▼ Flat gullets

**BENEFITS**
▼ Excellent cutting for non-metallic and non-ferrous applications, (wood, plastic, brass, copper, bronze and aluminum)
▼ Help break “stringy” chips

## Hook

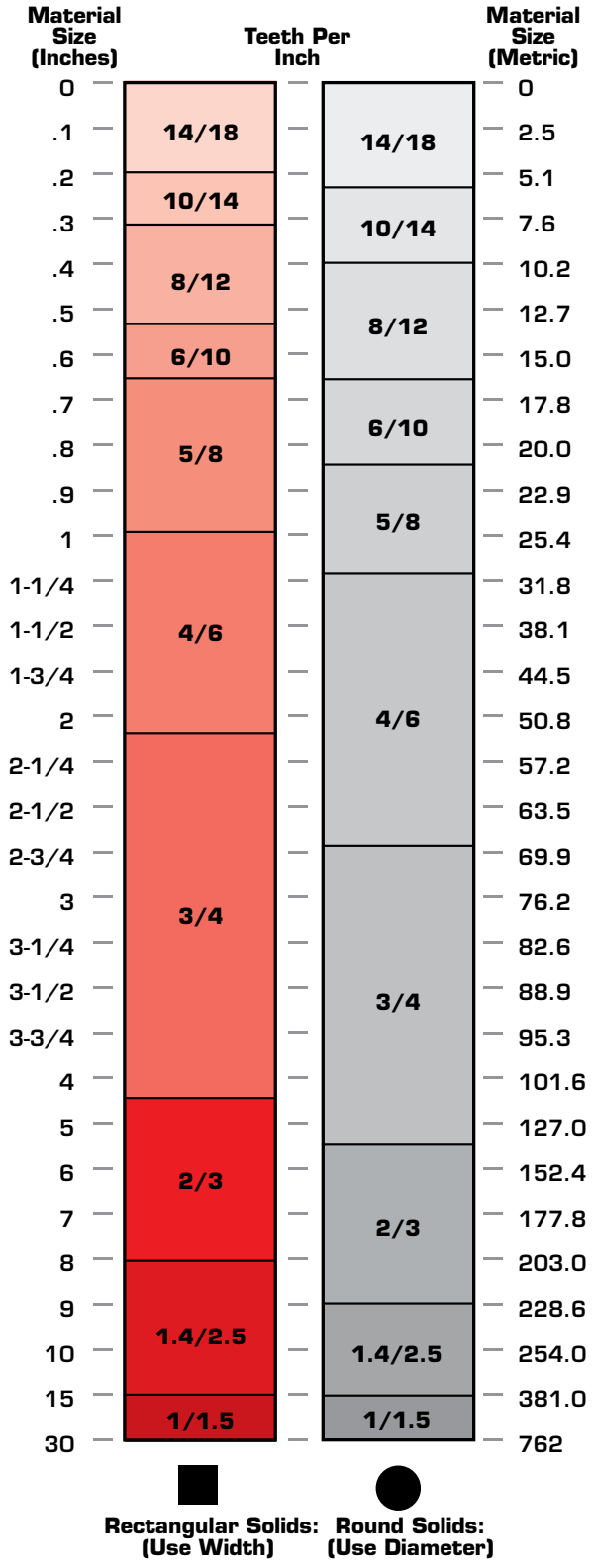
▼ Wide rounded gullets
▼ Equally spaced teeth
▼ Positive rake angle

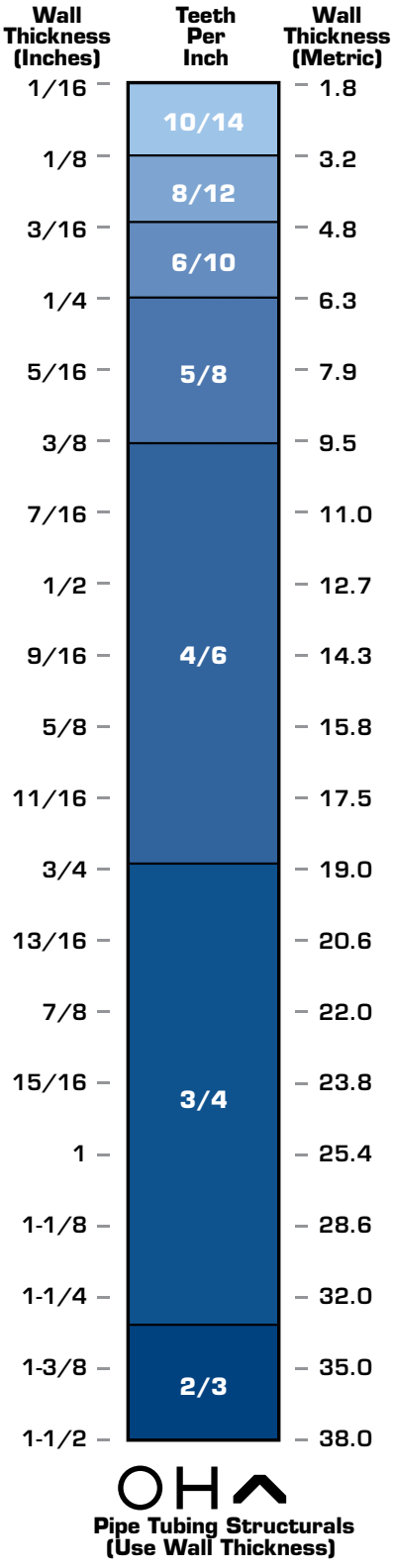
**ADVANTAGES**
▼ Excellent chip carrying in non-metallic applications
▼ Positive rake provides better tip penetration with less feed pressure

**BENEFITS**
▼ Good cutting performance in discontinuous chip forming materials
▼ Fast cutting with good surface finish

# 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.




## 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<br>Tooth Pitch | Up to 2"<br>5/7, 5/8, 4/6, 3/4 | | From 2" - 4"<br>4/6, 3/4 | | From 4" - 6"<br>3/4, 2/3 | | From 6" - 10"<br>1.4/2.5, 1.5/2 | | From 10" - 12"<br>1.4/2.5, 1.5/2 | | From 12" - 16"<br>1.0/1.5, 1.1/1.5, .75/1.0 | | From 16" - 20"<br>1.0/1.5, 1.1/1.5, .75/1.0 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Material<br>(Annealed) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) | Blade Speed<br>(SFPM) | Cutting Rate<br>(SIPM) |
| **Aluminum Alloys:** | | | | | | | | | | | | | | |
| 2024 - 5052<br>6061 - 7075 | 300 | 10 - 15 | 300 | 10 - 15 | 300 | 10 - 15 | 300 | 10 - 15 | 300 | 10 - 15 | 300 | 10 - 15 | 300 | 10 - 15 |
| **Copper Alloys** | | | | | | | | | | | | | | |
| CDA 220 | 250 | 8 - 12 | 230 | 7 - 11 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 5 - 9 | 180 | 4 - 8 | 150 | 4 - 8 |
| CDA 360 | 325 | 11 - 15 | 300 | 10 - 15 | 290 | 10 - 15 | 275 | 8 - 12 | 250 | 7 - 11 | 225 | 6 - 10 | 200 | 5 - 10 |
| Copper<br>Nickel (30%) | 230 | 7 - 11 | 220 | 7 - 11 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 8 | 120 | 4 - 8 |
| Beryllium Copper | 180 | 5 - 9 | 170 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 130 | 3 - 7 | 120 | 3 - 7 | 110 | 3 - 7 |
| **Bronze Alloys** | | | | | | | | | | | | | | |
| AMPCO 18 | 200 | 5 - 9 | 180 | 5 - 9 | 170 | 4 - 8 | 150 | 4 - 8 | 140 | 4 - 8 | 130 | 4 - 8 | 120 | 3 - 7 |
| AMPCO 21 | 170 | 4 - 8 | 160 | 4 - 8 | 150 | 4 - 8 | 140 | 4 - 8 | 130 | 3 - 7 | 120 | 3 - 7 | 110 | 2 - 6 |
| AMPCO 25 | 120 | 2 - 6 | 110 | 2 - 6 | 100 | 2 - 6 | 100 | 1 - 5 | 90 | 1 - 5 | 80 | 1 - 5 | 70 | 1 - 5 |
| Leaded Tin Bronze | 320 | 10 - 15 | 300 | 10 - 15 | 280 | 10 - 15 | 260 | 7 - 11 | 220 | 5 - 9 | 200 | 4 - 8 | 180 | 4 - 8 |
| Aluminum<br>Bronze 865 | 160 | 6 - 10 | 150 | 6 - 10 | 140 | 5 - 9 | 130 | 4 - 8 | 120 | 3 - 7 | 110 | 2 - 6 | 100 | 2 - 6 |
| Manganese Bronze | 230 | 7 - 11 | 220 | 7 - 11 | 210 | 6 - 10 | 190 | 6 - 10 | 170 | 5 - 9 | 150 | 4 - 8 | 140 | 3 - 7 |
| 932 | 300 | 10 - 14 | 290 | 10 - 14 | 270 | 9 - 13 | 250 | 6 - 10 | 220 | 5 - 9 | 200 | 5 - 9 | 160 | 4 - 8 |
| 937 | 270 | 8 - 12 | 250 | 8 - 12 | 240 | 7 - 11 | 210 | 6 - 10 | 200 | 5 - 9 | 180 | 5 - 9 | 160 | 4 - 8 |
| **Brass Alloys** | | | | | | | | | | | | | | |
| Cartridge /<br>Red Brass (85%) | 240 | 9 - 13 | 220 | 8 - 12 | 210 | 8 - 12 | 200 | 7 - 11 | 180 | 6 - 10 | 160 | 4 - 10 | 140 | 4 - 10 |
| Naval Brass | 220 | 6 - 10 | 200 | 6 - 10 | 190 | 6 - 10 | 170 | 4 - 8 | 160 | 4 - 8 | 140 | 4 - 8 | 130 | 4 - 8 |
| **Carbon Steels** | | | | | | | | | | | | | | |
| 1008, 1013,<br>1015, 1018 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1030 | 270 | 8 - 12 | 250 | 8 - 12 | 240 | 7 - 11 | 210 | 6 - 10 | 200 | 5 - 9 | 180 | 5 - 9 | 160 | 4 - 8 |
| 1035 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1045, 1048 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1060, 1065 | 230 | 7 - 11 | 220 | 7 - 11 | 210 | 6 - 10 | 190 | 6 - 10 | 170 | 5 - 9 | 150 | 4 - 8 | 140 | 3 - 7 |
| 1080 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| 1095 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| **Free Machining Steels** | | | | | | | | | | | | | | |
| 1108, 1111 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1112, 1113 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1115, 1137,<br>1145, 1151 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1212, 1213 | 300 | 11 - 15 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 8 - 12 | 220 | 6 - 10 | 200 | 6 - 10 | 180 | 4 - 8 |
| 1215 | 350 | 12 - 16 | 330 | 12 - 16 | 310 | 12 - 16 | 290 | 10 - 14 | 280 | 8 - 12 | 260 | 8 - 12 | 240 | 6 - 10 |
| 12L14 | 380 | 12 - 16 | 360 | 12 - 14 | 340 | 12 - 14 | 320 | 10 - 14 | 300 | 8 - 12 | 260 | 8 - 12 | 230 | 6 - 10 |
| **Structural Steel** | | | | | | | | | | | | | | |
| A36 | 280 | 10 - 14 | 260 | 10 - 14 | 240 | 10 - 14 | 220 | 8 - 12 | 200 | 8 - 12 | 180 | 6 - 10 | 160 | 6 - 10 |
| **Manganese Steels** | | | | | | | | | | | | | | |
| 1320, 1330, 1345 | 270 | 8 - 12 | 250 | 8 - 12 | 240 | 7 - 11 | 210 | 6 - 10 | 200 | 5 - 9 | 180 | 5 - 9 | 160 | 4 - 8 |
| 1513, 1524, 1536 | 250 | 5 - 9 | 240 | 5 - 9 | 230 | 5 - 8 | 210 | 4 - 8 | 200 | 4 - 8 | 180 | 3 - 7 | 160 | 3 - 7 |
| 1541, 1572 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| 1524 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| **Molybdenum Steels** | | | | | | | | | | | | | | |
| 4017, 4024 | 270 | 8 - 12 | 250 | 8 - 12 | 240 | 7 - 11 | 210 | 6 - 10 | 200 | 5 - 9 | 180 | 5 - 9 | 160 | 4 - 8 |
| 4032, 4042 | 270 | 8 - 12 | 250 | 8 - 12 | 240 | 7 - 11 | 210 | 6 - 10 | 200 | 5 - 9 | 180 | 5 - 9 | 160 | 4 - 8 |
| 4047, 4066 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| **Chrome Moly Steels** | | | | | | | | | | | | | | |
| 4130, 4140 | 250 | 5 - 9 | 240 | 5 - 9 | 230 | 5 - 8 | 210 | 4 - 8 | 200 | 4 - 8 | 180 | 3 - 7 | 160 | 3 - 7 |
| 4142, 4150 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| 41L50 | 250 | 5 - 9 | 240 | 5 - 9 | 230 | 5 - 8 | 210 | 4 - 8 | 200 | 4 - 8 | 180 | 3 - 7 | 160 | 3 - 7 |
| 4150H | 250 | 5 - 9 | 240 | 5 - 9 | 230 | 5 - 8 | 210 | 4 - 8 | 200 | 4 - 8 | 180 | 3 - 7 | 160 | 3 - 7 |
| **Chrome Alloy Steels** | | | | | | | | | | | | | | |
| 5045, 5046 | 250 | 5 - 9 | 240 | 5 - 9 | 230 | 5 - 8 | 210 | 4 - 8 | 200 | 4 - 8 | 180 | 3 - 7 | 160 | 3 - 7 |
| 5120, 5135 | 250 | 5 - 9 | 240 | 5 - 9 | 230 | 5 - 8 | 210 | 4 - 8 | 200 | 4 - 8 | 180 | 3 - 7 | 160 | 3 - 7 |
| 5140, 5160 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| 50100, 52100 | 180 | 5 - 9 | 170 | 5 - 9 | 160 | 5 - 9 | 150 | 4 - 8 | 130 | 4 - 8 | 120 | 3 - 7 | 100 | 3 - 7 |
| 6117, 6120 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| 6150 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| **Nickel Chrome-Moly Steels** | | | | | | | | | | | | | | |
| 4317, 4320 | 230 | 7 - 11 | 220 | 7 - 11 | 210 | 6 - 10 | 190 | 6 - 10 | 170 | 5 - 9 | 150 | 4 - 8 | 140 | 3 - 7 |
| 4337, 4340 | 210 | 5 - 9 | 200 | 5 - 9 | 190 | 5 - 9 | 170 | 4 - 8 | 160 | 4 - 8 | 140 | 3 - 7 | 130 | 3 - 7 |
| 8615, 8620, 8627 | 230 | 7 - 11 | 220 | 7 - 11 | 210 | 6 - 10 | 190 | 6 - 10 | 170 | 5 - 9 | 150 | 4 - 8 | 140 | 3 - 7 |
| 8630, 8640, 8645 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| 8647, 8660 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| 8715, 8750 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| 9310, 9317 | 170 | 2 - 6 | 160 | 2 - 6 | 150 | 1 - 5 | 130 | 1 - 5 | 120 | 1 - 5 | 110 | 1 - 5 | 100 | 1 - 5 |
| 9437, 9445 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| 9747, 9763 | 230 | 7 - 11 | 220 | 7 - 11 | 210 | 6 - 10 | 190 | 6 - 10 | 170 | 5 - 9 | 150 | 4 - 8 | 140 | 3 - 7 |
| 9840, 9850 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| E9310 | 180 | 5 - 9 | 170 | 5 - 9 | 160 | 5 - 9 | 150 | 4 - 8 | 130 | 4 - 8 | 120 | 3 - 7 | 100 | 3 - 7 |
| **Nickel-Moly Steels** | | | | | | | | | | | | | | |
| 4608, 4621 | 220 | 7 - 11 | 210 | 6 - 10 | 200 | 6 - 10 | 180 | 5 - 9 | 160 | 5 - 9 | 140 | 4 - 10 | 130 | 4 - 10 |
| 4640 | 200 | 6 - 10 | 190 | 6 - 10 | 180 | 5 - 9 | 160 | 4 - 8 | 140 | 4 - 8 | 120 | 4 - 8 | 100 | 3 - 7 |
| 4812, 4820 | 180 | 5 - 9 | 170 | 5 - 9 | 160 | 5 - 9 | 150 | 4 - 8 | 130 | 4 - 8 | 120 | 3 - 7 | 100 | 3 - 7 |
| **Silicon Steels** | | | | | | | | | | | | | | |
| 9255, 9260 | 180 | 5 - 9 | 170 | 5 - 9 | 160 | 5 - 9 | 150 | 4 - 8 | 130 | 4 - 8 | 120 | 3 - 7 | 100 | 3 - 7 |
| 9261, 9262 | 170 | 2 - 6 | 160 | 2 - 6 | 150 | 1 - 5 | 130 | 1 - 5 | 120 | 1 - 5 | 110 | 1 - 5 | 100 | 1 - 5 |

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

# For use with Bi-Metal Blades*

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

# CUT TIME CALCULATOR

## Removal Rate - Square Inches Per Minute

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

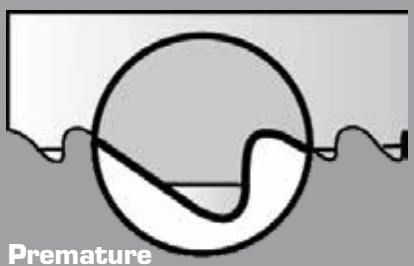
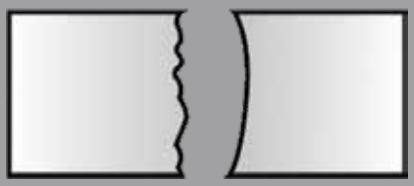
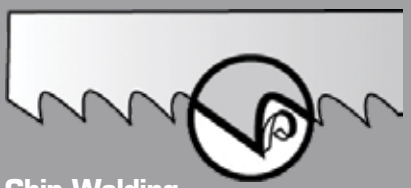
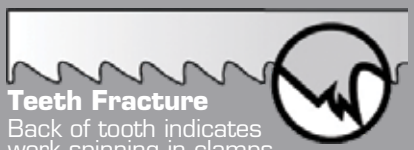
**To find the area of bars larger than 10″ diameter** use the formula "π(3.14) x radius²". Take half the diameter (radius) multiply it by itself. Then multiply that by 3.14. **Example:** 20″ bar. Half the diameter is 10″. 10 x 10 = 100. 100 x 3.14 = 314 square inches.

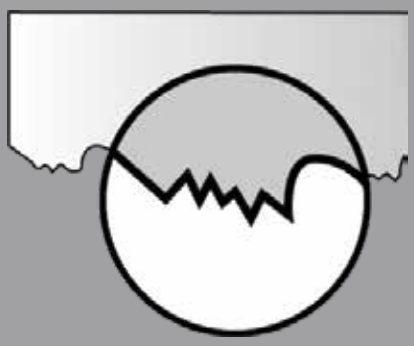
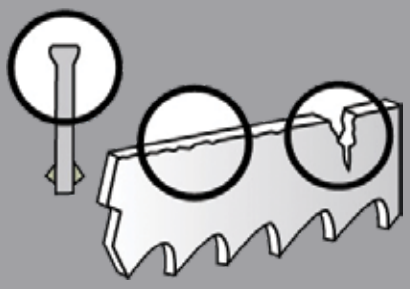
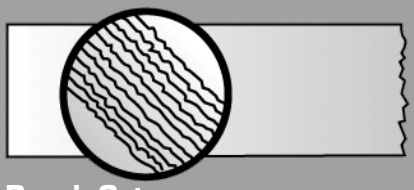
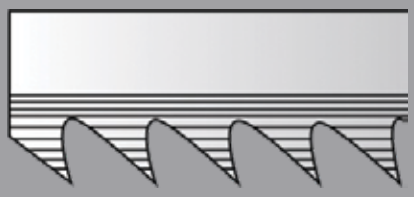
# BLADE OPTIMIZATION

**USING METAL CHIPS TO TROUBLESHOOT**
You can improve the productivity of your metal cutting operation by paying close attention to the chips made by the blade cutting through metal. This chart shows some of the common problems that can be discovered and solved by paying attention to chips.

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

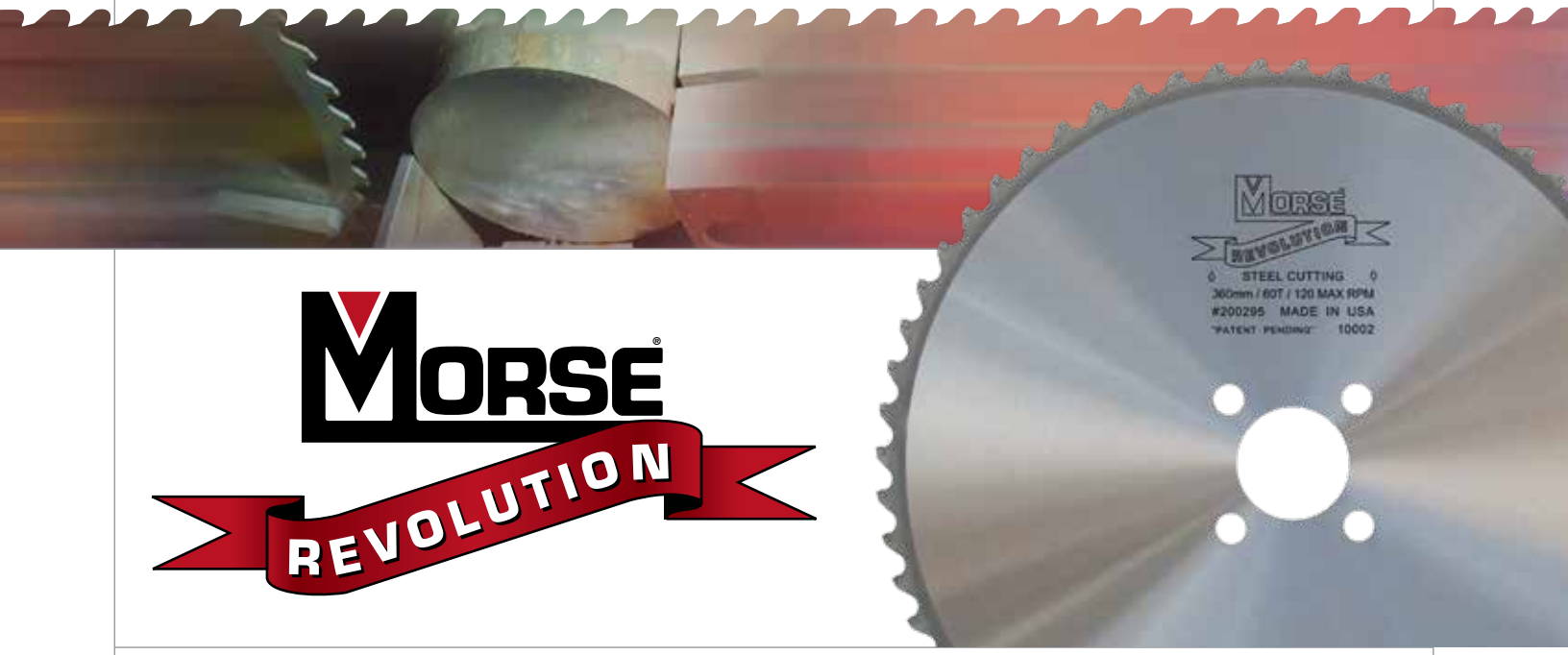
| | | |
|---|---|---|
|  **Teeth Stripping** | ▼ Feed pressure too high<br>▼ Tooth stuck in cut<br>▼ Improper or insufficient coolant<br>▼ Incorrect tooth size<br>▼ Hard spots in material<br>▼ Work spinning in vise - loose nest or bundle<br>▼ Blade speed too slow<br>▼ Blade teeth running backwards<br>▼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

M. K. MORSE REVOLUTION THIN KERF

# CIRCULAR SAW BLADES

| BLADE TYPE | APPLICATION |
| --- | --- |
| Thin Kerf Cermet Tipped Industrial Circular Saw Blades | Cermet tipped blades are optimized for carbon and high alloy steels. |
| Thin Kerf Carbide Tipped Industrial Circular Saw Blades | Carbide tipped blades are optimized for stainless steel, high alloy steel, and aluminum. |

# INDUSTRIAL THIN KERF CIRCULAR




MORSE® REVOLUTION

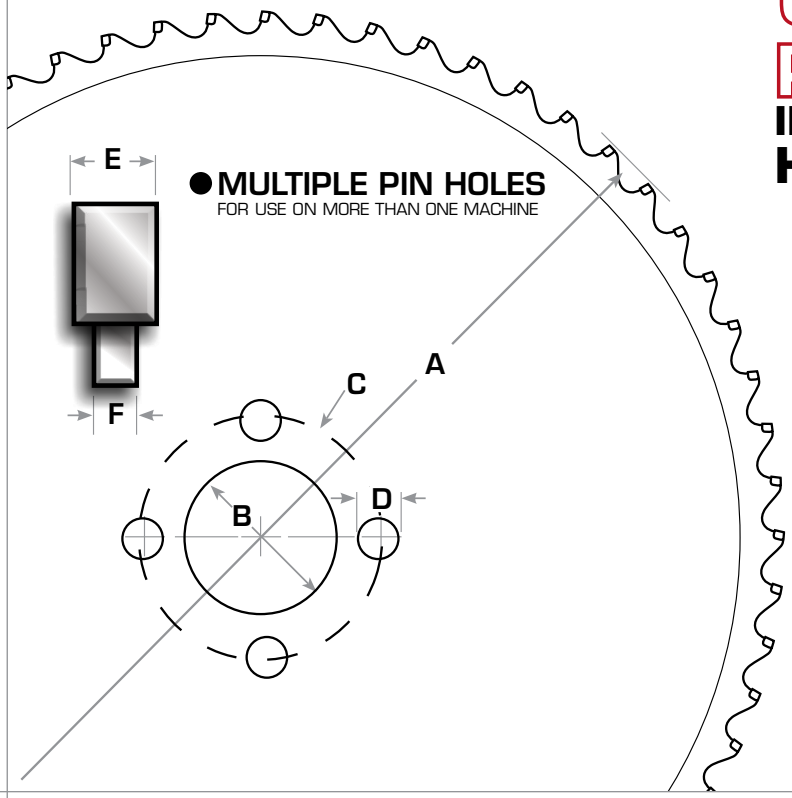
Cut through steel, carbon, stainess, aluminum, and high alloy steel faster than ever. Unique combinations of metallurgy and blade configurations are tailored for peak performance in specific applications.

MADE IN U.S.A.

## FEATURES & BENEFITS

- Ferrous and non-ferrous metal cutting
- Efficient cutting for 1/2" to 6" diameter
- Most effective in solids

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




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

# INDUSTRIAL THIN KERF CIRCULAR

## 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.

### APPLICATIONS

- Carbon steels
- High alloy steels

### 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 |
|---|---|---|---|---|---|---|---|
| ICTNK25072SB | 201346 | 250mm | 32mm | 2.0mm | 72 | 4/11/63 and 4/9/50 | Tsune<br>Nishijimax<br>Katso (*Wagner*)<br>Exact Cut |
| ICTNK25080SB | 201360 | 250mm | 32mm | 2.0mm | 80 | | |
| ICTNK250100SB | 201544 | 250mm | 32mm | 2.0mm | 100 | | |
| ICTNK28560SB | 201384 | 285mm | 32mm | 2.0mm | 60 | 4/11/63 and 4/9/50 | Everising<br>Tsune<br>Nishijimax<br>Katso |
| ICTNK28572SB | 201551 | 285mm | 32mm | 2.0mm | 72 | | |
| ICTNK28580SB | 201407 | 285mm | 32mm | 2.0mm | 80 | | |
| ICTNK285100SB | 201568 | 285mm | 32mm | 2.0mm | 100 | | |
| ICTS360100SB | 200332 | 285mm | 50mm | 2.74mm | 100 | 4/14/80 | Tsune<br>Kaltenbach<br>Katso |
| ICAM36060SB | 200356 | 360mm | 40mm | 2.74mm | 60 | 4/11/90 | Amada<br>Everising<br>Mega<br>Missler<br>Daito / Delta<br>Behringer |
| ICAM36080SB | 200370 | 360mm | 40mm | 2.74mm | 80 | | |
| ICAM360100SB | 200394 | 360mm | 40mm | 2.74mm | 100 | | |
| ICNT36060SB | 201506 | 360mm | 50mm | 2.74mm | 60 | 4/14/80 and 4/16/80 | Tsune<br>Nishijimax<br>Kaltenbach<br>Katso<br>Endo |
| ICNT36080SB | 201513 | 360mm | 50mm | 2.74mm | 80 | | |
| ICNT360100SB | 201520 | 360mm | 50mm | 2.74mm | 100 | | |
| ICTS42060SB | 200349 | 420mm | 50mm | 2.74mm | 60 | 4/16/80 | Tsune<br>Endo |
| ICTS42080SB | 200363 | 420mm | 50mm | 2.74mm | 80 | | |
| ICNI46060SB | 202015 | 460mm | 50mm | 2.74mm | 60 | 4/16/80 and 4/21/90 | Nishijimax<br>Amada<br>Everising |
| ICNI46080SB | 202022 | 460mm | 50mm | 2.74mm | 80 | | |
| ICNI460100SB | 202039 | 460mm | 50mm | 2.74mm | 100 | | |

## 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.

### APPLICATIONS

- Stainless steels
- High alloy steels
- Aluminum

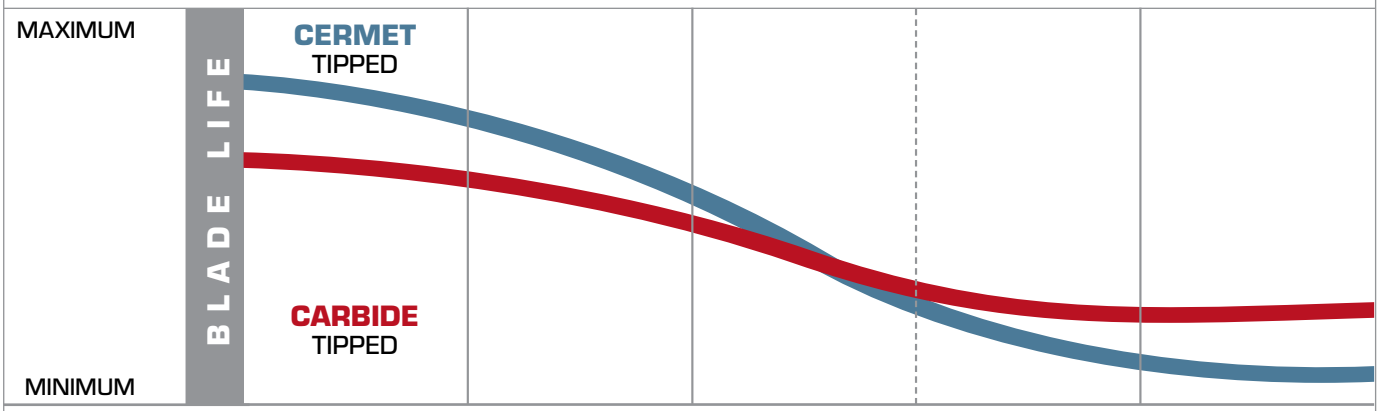
### BENEFITS

- 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 |
|---|---|---|---|---|---|---|---|
| ICTNK25080CB | 203067 | 250mm | 32mm | 2.03mm | 80 | 4/11/63 and 4/9/50 | Tsune Nishijimax Katso (*Wagner*) 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 and 4/16/80 | Tsune Kaltenback Katso |
| ICNT36080CB | 203036 | 360mm | 50mm | 2.74mm | 80 | | |
| ICNT360100CB | 203074 | 360mm | 50mm | 2.74mm | 100 | | |
| ICAM36060CB | 203081 | 360mm | 40mm | 2.74mm | 60 | 4/11/90 | Amada Everising Mega Daito / Delta Behringer |
| ICAM36080CB | 203029 | 360mm | 40mm | 2.74mm | 80 | | |
| 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

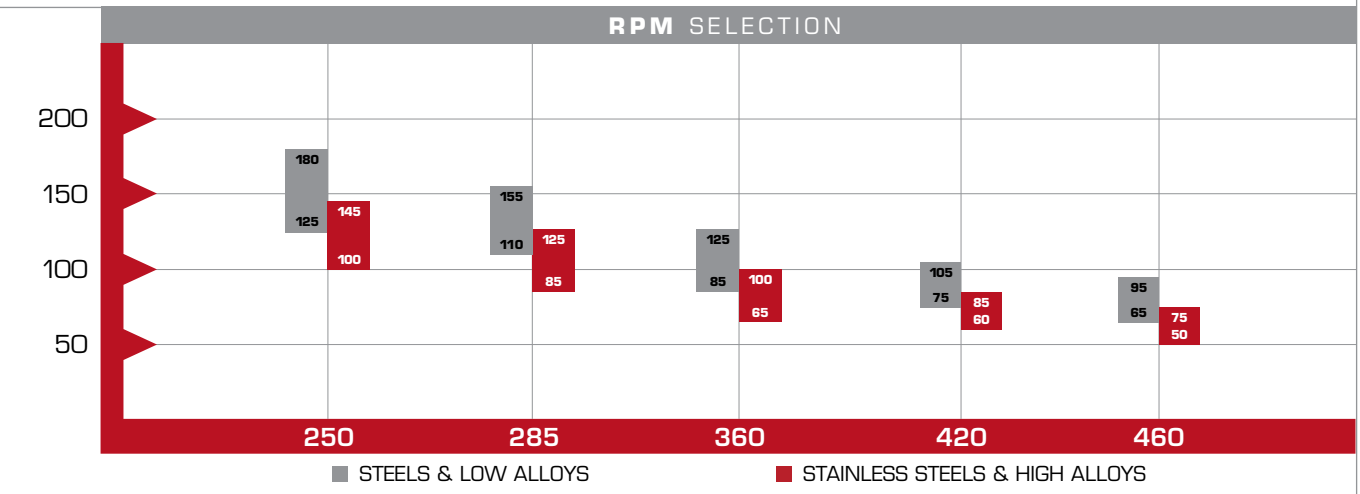


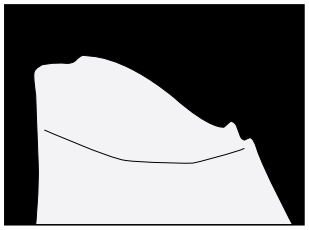
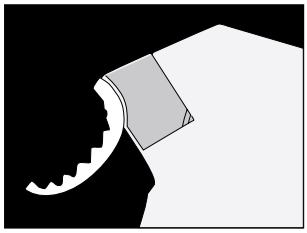

| CARBON STEEL | ALLOY/MED. CARBON | HIGH CARBON | STAINLESS STEEL |
|---|---|---|---|
| 1045<br>1018 | 4140, 4130<br>1050, 1075 | 8620, 8670<br>5214 | 304, 316<br>400 Series |

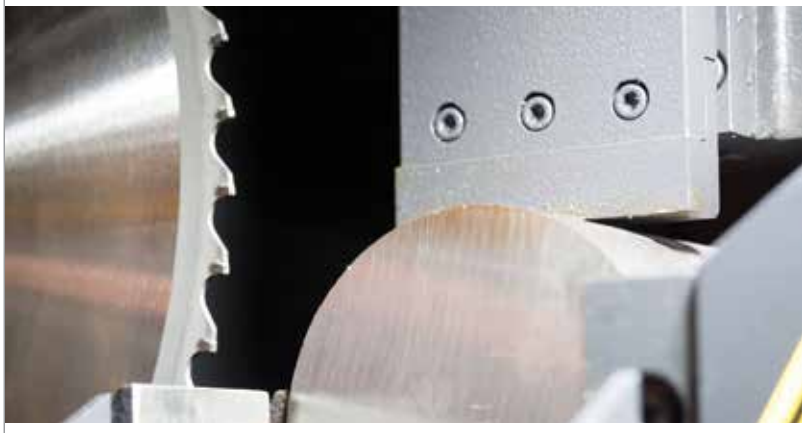
## BLADE TOOTH SELECTION GUIDE

| BLADE TYPE Inches | | MATERIAL DIAMETER INCHES/METRIC | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLADE TYPE mm | TOOTH | ⅜ | ¾ | 1⅛ | 1⅜ | 1⅝ | 2⅜ | 2¾ | 3⅜ | 3⅝ | 3⅞ | 4⅝ | 4⅞ | 5⅛ | 5½ | 6 |
| | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
| 250 | 54 | | | | | | | | | | | | | | | |
| | 72 | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | |
| 285 | 60 | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | |
| 360 | 60 | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | |
| | 100 | | | | | | | | | | | | | | | |
| 420 | 60 | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | |
| 460 | 40 | | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | | |
| | 80 | | | | | | | | | | | | | | | |
| | 100 | | | | | | | | | | | | | | | |

## RPM SELECTION GUIDE



| PROBLEM | PROBLEM CAUSE | SOLUTION |
|---|---|---|
| Teeth stripping  | Incorrect blade selection | Select a blade with larger gullet space<br>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<br>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<br>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<br>Increase RPM if it is below the recommended<br>Check chip load<br>Increase chip load if it is below recommended |
| | Insufficient coolant | Check coolant rate<br>Increase coolant rate<br>Check orientation of outlet nozzle<br>Check chip brush<br>Adjust or replace chip brush if necessary |
| | Damaged tip | Check the tip for physical damages<br>Run if necessary at reduced chip load |
| | Excessive wear at the cutting edge | Increase coolant and air flow<br>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<br>Check squareness of jaws<br>Check feeding mechanism and sensors |



M. K. MORSE

# 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. |


MADE IN U.S.A.

## 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.

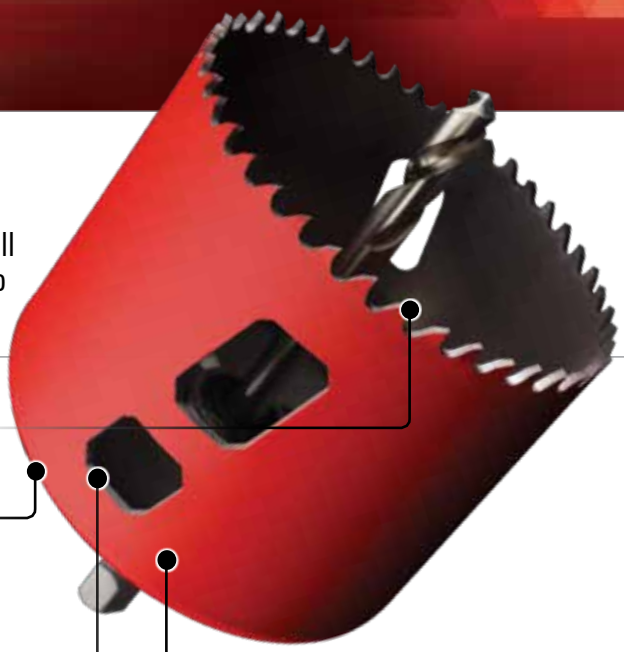
M. K. MORSE

# 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

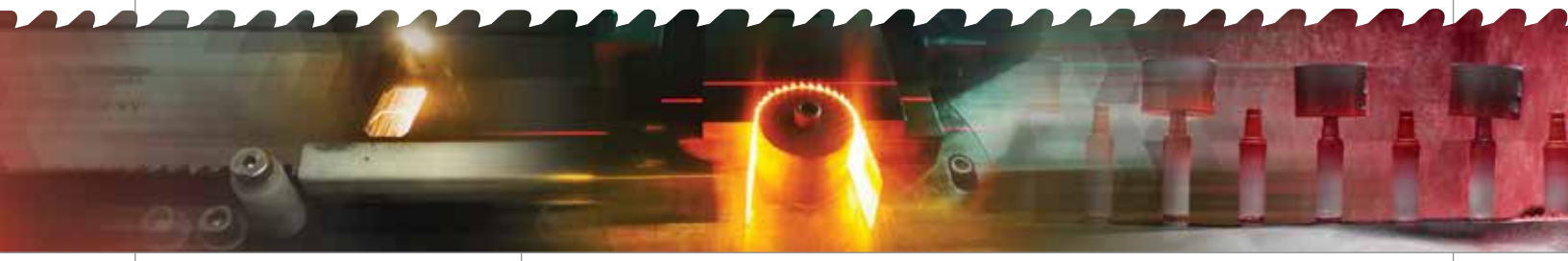
NEW **SIDE SLOT**
- ▼ Increased Leverage for Faster, Easier Slug Removal

NEW **EXTERIOR RED COATING**
- ▼ Reduces Side Wall Friction for Efficient Cutting

MADE IN U.S.A.

THE **BEST** PERFORMING BI-METAL HOLE SAW **ANYWHERE!**

# HOLE CUTTING & BORING TOOLS



## 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.

### APPLICATIONS

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

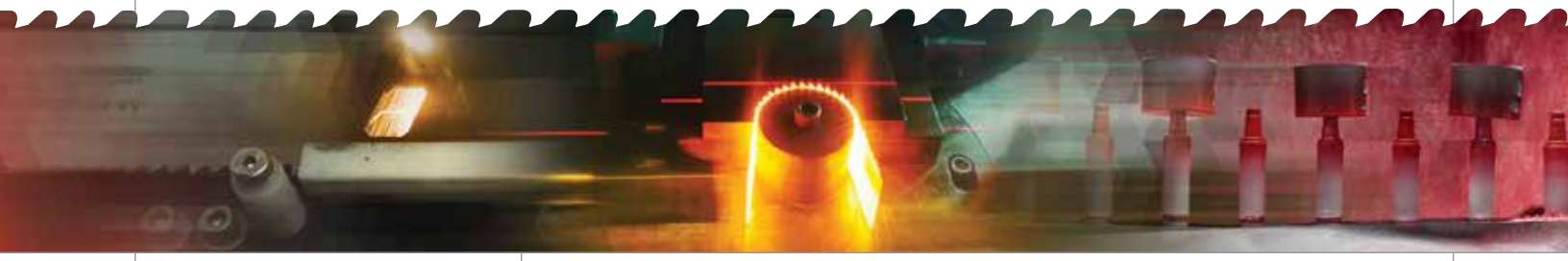
### BENEFITS

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

| DIAMETER SIZE | MM | BOX MORSE HOLE SAW Model | Part | CLAM MORSE HOLE SAW Model | Part |
|---|---|---|---|---|---|
| 9/16" | 14 | MHS09 | 177092 | MHS09C | 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 |
| 13/16" | 21 | MHS13 | 177139 | MHS13C | 178136 |
| 7/8" | 22 | MHS14 | 177146 | MHS14C | 178143 |
| 15/16" | 24 | MHS15 | 177153 | MHS15C | 178150 |
| | 25 | MHS155 | 177573 | MHS155C | 178570 |
| 1" | 25 | MHS16 | 177160 | MHS16C | 178167 |
| 1 1/16" | 27 | MHS17 | 177177 | MHS17C | 178174 |
| 1 1/8" | 29 | MHS18 | 177184 | MHS18C | 178181 |
| | 30 | MHS185 | 177597 | MHS185C | 178594 |
| 1 3/16" | 30 | MHS19 | 177191 | MHS19C | 178198 |
| 1 1/4" | 32 | MHS20 | 177207 | MHS20C | 178204 |
| | 32 | MHS205 | 177658 | MHS205C | 178655 |
| 1 5/16" | 33 | MHS21 | 177214 | MHS21C | 178211 |
| 1 3/8" | 35 | MHS22 | 177221 | MHS22C | 178228 |
| | 35 | MHS225 | 177696 | MHS225C | 178693 |
| 1 7/16" | 37 | MHS23 | 177238 | MHS23C | 178235 |
| 1 1/2" | 38 | MHS24 | 177245 | MHS24C | 178242 |
| 1 3/8" | 40 | MHS25 | 177252 | MHS25C | 178259 |
| | 40 | MHS255 | 177733 | MHS255C | 178730 |
| 1 5/8" | 41 | MHS26 | 177269 | MHS26C | 178266 |
| 1 11/16" | 43 | MHS27 | 177276 | MHS27C | 178273 |
| 1 3/4" | 44 | MHS28 | 177283 | MHS28C | 178280 |
| | 45 | MHS285 | 177740 | MHS285C | 178747 |
| 1 13/16" | 46 | MHS29 | 177290 | MHS29C | 178297 |

| DIAMETER | | BOX MORSE HOLE SAW | | CLAM MORSE HOLE SAW | |
|---|---|---|---|---|---|
| SIZE | MM | Model | Part | Model | Part |
| 1 7/8" | 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 3/8" | 60 | MHS38 | 177382 | MHS38C | 178389 |
| | 62 | MHS385 | 177399 | MHS385C | 178396 |
| 2 1/2" | 64 | MHS40 | 177405 | MHS40C | 178402 |
| 2 9/16" | 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 |
| 3 3/4" | 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 1/8" | 105 | MHS66 | 177665 | | |
| 4 1/4" | 108 | MHS68 | 177689 | | |
| 4 3/8" | 111 | MHS70 | 177702 | | |
| 4 1/2" | 114 | MHS72 | 177726 | | |
| 4 3/4" | 121 | MHS76 | 177764 | | |
| 5" | 127 | MHS80 | 177801 | | |
| 5 1/4" | 133 | MHS84 | 177849 | | |
| 5 1/2" | 140 | MHS88 | 177887 | | |
| 5 3/4" | 146 | MHS92 | 177924 | | |
| 6" | 152 | MHS96 | 177962 | | |
| 6 3/8" | 162 | MHS104 | 177498 | | |
| 6 5/8" | 168 | MHS106 | 177535 | | |

# HOLE CUTTING & BORING TOOLS



## 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

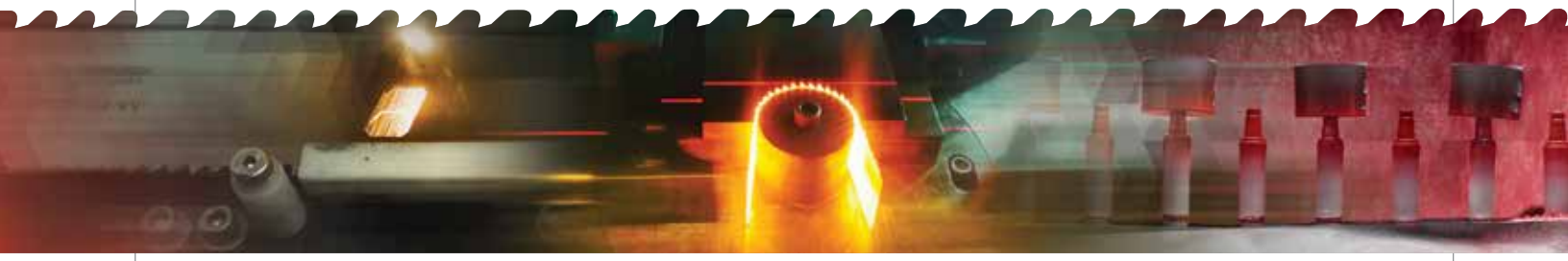
### BENEFITS

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

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

| DIAMETER | | CLAM MORSE HOLE SAW | |
|---|---|---|---|
| SIZE | MM | Model | Part |
| 1 7/8" | 48 | MHSA30C | 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 |
| 2 5/16" | 59 | MHSA37C | 116374 |
| 2 3/8" | 60 | MHSA38C | 116381 |
| 2 1/2" | 64 | MHSA40C | 116404 |
| 2 9/16" | 65 | MHSA41C | 116411 |
| 2 5/8" | 67 | MHSA42C | 116428 |
| | 68 | MHSA425C | 116817 |
| 2 3/4" | 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 5/8" | 92 | MHSA58C | 116589 |
| 3 3/4" | 95 | MHSA60C | 116602 |
| 3 7/8"" | 98 | MHSA62C | 116626 |
| | 100 | MHSA63C | 116633 |
| 4" | 102 | MHSA64C | 116640 |

# HOLE CUTTING & BORING TOOLS



## MORSE BI-METAL HOLE SAWS KITS

### BENEFITS

- ▼ Cutting depth: 1 15/16" (49.2mm)
- ▼ Arbors included
- ▼ Grouped in most commonly used sizes
- ▼ Standard shipping Pack: 1

MADE IN U.S.A.

### 8 PC. ELECTRICIAN HOLE SAW KIT

MHSO2E / 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: 7/8", 1 1/8", 1 3/8", 1 3/4", 2", 2 1/2", 3", 3 5/8", 4 1/8", 4 1/2"
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: 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/2", 2 5/8", 3", 3 5/8", 4 1/8", 4 1/2", 4 3/4"
Carbide Tip: 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, MA35PS / Pilot Drill: (2) MAPD301

### 8 PC. PLUMBER HOLE SAW KIT

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

### 15 PC. MASTER PLUMBER HOLE SAW KIT

MHS16P / 177818
Common industrial plumbing and electrical jobs on pipe and conduit through 4 1/2".
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"
Arbors: MA34, MA45PS
Pilot Drill: (2) MAPD301

### 26 PC. PLUMBING COMBINATION HOLE SAW KIT

MHSPLUO1 / 177900
13 bi-metal and 9 carbide grit hole saws in a broad range of sizes used by plumbers.
Bi-Metal: 3/4", 7/8", 1 1/8", 1 1/2", 1 3/4", 2 1/8", 2 1/4", 2 9/16", 3", 3 1/2", 4", 4 1/4", 4 1/2"
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"
Arbors: MA24, MA45PS / Pilot Drill: (2) MAPD301CT (2) MAPD301

### 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

MHS05M / 116916
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

MHS10O / 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

MHS08I / 177863
Common industrial plumbing and electrical applications
Saws: 3/4", 7/8", 1", 1 1/4", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 3"
Arbors: MA34, MA45PS
Extension: ME12

## 19 PC. INDUSTRIAL HOLE SAW KIT

MHS06I / 177870
Common industrial plumbing and electrical jobs on pipe and conduit through 4".
Saws: 3/4", 7/8", 1 1/8", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 3", 3 1/4", 3 5/8", 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: 3/4", 7/8", 1", 1 1/8", 1 3/8", 1 1/2", 1 3/4", 2", 2 1/8", 2 1/4", 2 1/2", 2 5/8", 3", 3 1/4", 3 3/8", 3 5/8", 3 3/4", 4 1/8", 4 1/2", 4 3/4"
Arbors: MA34, MA45PS
Pilot Drill: (2) MAPD301
Extension: ME12

## 8 PC. LOCKSMITH HOLE SAW KIT

MHS02L / 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

# HOLE CUTTING & BORING TOOLS


TUNGSTEN CARBIDE GRIT

## 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 15/16" (49.2 mm). Arbor required.

### APPLICATIONS

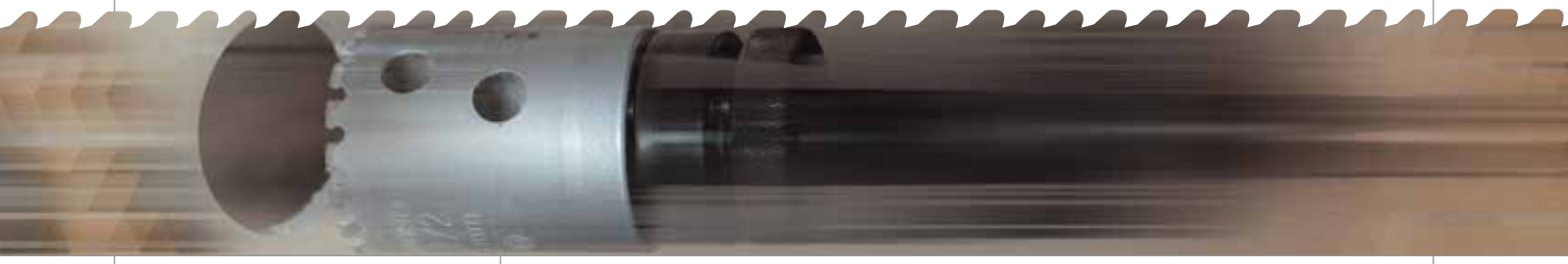
- Acoustic tile
- Brick
- Cast iron
- Cement board
- Ceramics
- Cinderblock
- Composites
- Computer flooring
- Fiberglass
- Hardened steel
- Particleboard
- Asbestos board
- Formica

### BENEFITS

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

| DIAMETER INCHES | MM | MODEL # | COMP # | PIPE TAP SIZE INCHES | PIPE ENT. SIZE INCHES |
|---|---|---|---|---|---|
| 3/4" | 19 | MHSG12 | 216128 | 1/2" | 3/8" |
| 3/16" | 21 | MHSG13 | 216135 | | |
| 7/8" | 22 | MHSG14 | 216142 | 3/4" | 1/2" |
| 15/16" | 24 | MHSG15 | 216159 | | |
| 1" | 25 | MHSG16 | 216166 | | |
| 1 1/16" | 27 | MHSG17 | 216173 | | |
| 1 1/8" | 29 | MHSG18 | 216180 | 1 | 3/4" |
| 1 3/16" | 30 | MHSG19 | 216197 | | |
| 1 1/4" | 32 | MHSG20 | 216203 | | |
| 1 5/16" | 33 | MHSG21 | 216210 | | |
| 1 3/8" | 35 | MHSG22 | 216227 | | 1 |
| 1 7/16" | 37 | MHSG23 | 216234 | | |
| 1 1/2" | 38 | MHSG24 | 216241 | | |
| 1 9/16" | 40 | MHSG25 | 216258 | | |
| 1 5/8" | 41 | MHSG26 | 216265 | | |
| 1 11/16" | 43 | MHSG27 | 216272 | | |
| 1 3/4" | 44 | MHSG28 | 216289 | 1 1/2" | 1 1/4" |
| 1 13/16" | 46 | MHSG29 | 216296 | | |
| 1 7/8" | 48 | MHSG30 | 216302 | | |
| 2 | 51 | MHSG32 | 216326 | | 1 1/2" |
| 2 1/16" | 52 | MHSG33 | 216333 | | |
| 2 1/8" | 54 | MHSG34 | 216340 | | |
| 2 1/4" | 57 | MHSG36 | 216364 | 2 | |
| 2 5/16" | 59 | MHSG37 | 216371 | | |
| 2 3/8" | 60 | MHSG38 | 216388 | | |
| 2 1/2" | 64 | MHSG40 | 216401 | | 2 |

| DIAMETER INCHES | MM | MODEL # | COMP # | PIPE TAP SIZE INCHES | PIPE ENT. SIZE INCHES |
|---|---|---|---|---|---|
| 2 9/16" | 65 | MHSG41 | 216418 | | |
| 2 5/8" | 67 | MHSG42 | 216425 | 2 1/2" | |
| 2 3/4" | 70 | MHSG44 | 216449 | | |
| 2 7/8" | 73 | MHSG46 | 216463 | | |
| 3" | 76 | MHSG48 | 216487 | | 2 1/2" |
| 3 1/8" | 79 | MHSG50 | 216500 | | |
| 3 1/4" | 83 | MHSG52 | 216524 | 3 | |
| 3 3/8" | 86 | MHSG54 | 216548 | | |
| 3 1/2" | 89 | MHSG56 | 216562 | | |
| 3 5/8" | 92 | MHSG58 | 216586 | | 3 |
| 3 3/4" | 95 | MHSG60 | 216609 | 3 1/2" | |
| 3 7/8" | 98 | MHSG62 | 216623 | | |
| 4" | 102 | MHSG64 | 216647 | | |
| 4 1/8" | 105 | MHSG66 | 216661 | | 3 1/2" |
| 4 1/4" | 108 | MHSG68 | 216685 | 4 | |
| 4 3/8" | 111 | MHSG70 | 216708 | | |
| 4 1/2" | 114 | MHSG72 | 216722 | | 4 |
| 4 3/4" | 121 | MHSG76 | 216760 | 4 1/2" | |
| 5" | 127 | MHSG80 | 216807 | | |
| 5 1/2" | 140 | MHSG88 | 216883 | | |
| 5 3/4" | 146 | MHSG92 | 216920 | | |
| 6" | 152 | MHSG96 | 216968 | | |
| 6 3/8" | 162 | MHSG104 | 216975 | | |
| 6 5/8" | 168 | MHSG106 | 216982 | | |
| 6 7/8" | 174 | MHSG110 | 216999 | | |




DIAMONDGRIT™

## DIAMOND GRIT HOLE SAWS

Provides longer life and faster cutting in these materials than the conventional carbide grit hole saws and reciprocating saw blades.

### APPLICATIONS

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

### BENEFITS

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

| DIAMETER INCHES | MM | MODEL # | COMPUTER # | Pipe Tap Size Inches | Pipe Ent. Size Inches |
|---|---|---|---|---|---|
| 3/16" | 4.8 | DGM03C | 129152 | | |
| 1/4" | 6 | DGM04C | 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) | 3/8" (9.5mm) |
| 1" | 25 | DGM16C | 129220 | | |
| 1 3/8" | 35 | DGM22C | 129237 | | |
| Diamond Grit Hole Saws and Quick Start™ Auto Pilot (Arbor Required) | | | | | |
| 7/8" | 22 | DG14C | 129008 | 3/4" (19mm) | 1/2" (13mm) |
| 1 1/8" | 29 | DG18C | 129015 | 1 (25mm) | 3/4" (19mm) |
| 1 1/4" | 32 | DG20C | 129022 | | |
| 2" | 51 | DG32C | 129039 | | 1 1/2" (38mm) |
| 2 1/2" | 64 | DG40C | 129046 | | 2 (51mm) |
| Auto Pilot | | DGAPC | 129503 | | |

PACKAGING: 1 per card

# HOLE CUTTING & BORING TOOLS


**CARBIDE TIPPED**

## 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 15/16" (49.2 mm). Arbor required.

### APPLICATIONS

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

### 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

| DIAMETER INCHES | MM | MODEL # | COMP # |
|---|---|---|---|
| 9/16" | 14 | MHST09 | 157094 |
| | 16 | MHST105 | 157971 |
| 11/16" | 17 | MHST11 | 157117 |
| 3/4" | 19 | MHST12 | 157124 |
| | 20 | MHST125 | 157988 |
| 13/16" | 21 | MHST13 | 157131 |
| 7/8" | 22 | MHST14 | 157148 |
| 15/16" | 24 | MHST15 | 157155 |
| 1" | 25 | MHST16 | 157162 |
| 1 1/16" | 27 | MHST17 | 157179 |
| 1 1/8" | 29 | MHST18 | 157186 |
| 1 3/16" | 30 | MHST19 | 157193 |
| 1 1/4" | 32 | MHST20 | 157209 |
| 1 5/16" | 33 | MHST21 | 157216 |
| 1 3/8" | 35 | MHST22 | 157223 |
| 1 7/16" | 37 | MHST23 | 157230 |
| 1 1/2" | 38 | MHST24 | 157247 |
| 1 9/16" | 40 | MHST25 | 157254 |
| 1 5/8" | 41 | MHST26 | 157261 |
| 1 11/16" | 43 | MHST27 | 157278 |
| 1 3/4" | 44 | MHST28 | 157285 |
| 1 13/16" | 46 | MHST29 | 157292 |
| 1 7/8" | 48 | MHST30 | 157308 |
| 2 | 51 | MHST32 | 157322 |
| 2 1/16" | 52 | MHST33 | 157339 |
| 2 1/8" | 54 | MHST34 | 157346 |
| 2 1/4" | 57 | MHST36 | 157360 |

| DIAMETER INCHES | MM | MODEL # | COMP # |
|---|---|---|---|
| 2 5/16" | 59 | MHST37 | 157377 |
| 2 3/8" | 60 | MHST38 | 157384 |
| 2 1/2" | 64 | MHST40 | 157407 |
| 2 9/16" | 65 | MHST41 | 157414 |
| 2 5/8" | 67 | MHST42 | 157421 |
| 2 3/4" | 70 | MHST44 | 157445 |
| 2 7/8" | 73 | MHST46 | 157469 |
| 3" | 76 | MHST48 | 157483 |
| 3 1/8" | 79 | MHST50 | 157506 |
| 3 1/4" | 83 | MHST52 | 157520 |
| 3 3/8" | 86 | MHST54 | 157544 |
| 3 1/2" | 89 | MHST56 | 157568 |
| 3 5/8" | 92 | MHST58 | 157582 |
| 3 3/4" | 95 | MHST60 | 157605 |
| 3 7/8" | 98 | MHST62 | 157629 |
| 4" | 102 | MHST64 | 157643 |
| 4 1/8" | 105 | MHST66 | 157667 |
| 4 1/4" | 108 | MHST68 | 157681 |
| 4 3/8" | 111 | MHST70 | 157704 |
| 4 1/2" | 114 | MHST72 | 157728 |
| 4 3/4" | 121 | MHST76 | 157766 |
| 5" | 127 | MHST80 | 157803 |
| 5 1/4" | 133 | MHST84 | 157841 |
| 5 1/2" | 140 | MHST88 | 157889 |
| 5 3/4" | 146 | MHST92 | 157926 |
| 6" | 152 | MHST96 | 157964 |

### 8 PC. CARBIDE TIPPED ELECTRICIANS KIT

MHST02E / 157940

Carbide Tipped pipe and conduit entrance sizes to 2" through abrasive materials.

Saws: 7/8", 1 1/8", 1 3/8", 1 3/4", 2", 2 1/2"

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

### 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.

| DIAMETER INCHES | DIAMETER MM | MODEL # | COMPUTER # | FOR INSTALLING THESE LIGHTING FIXTURES |
|---|---|---|---|---|
| 4 3/8"* | 111 | MHSG70 | 216708 | Mini Juno, Capri, Marco, Halo |
| 6 3/8" | 162 | MHSG104 | 216975 | Halo, Capri |
| 6 5/8" | 168 | MHSG106 | 216982 | Juno, Progress |
| 6 7/8" | 174 | MHSG110 | 216999 | Lithonla, Marco, Lightolier, Progress, Capri, Preacolite |
| BIMETAL HOLE SAWS | | | | |
| 6 3/8" | 162 | MHS104 | 177498 | Halo, Capri |
| 6 5/8" | 168 | MHS106 | 177535 | Juno, Progress |

PACKAGING: 1 per box *Gulleted carbide grit cutting edge

# HOLE CUTTING & BORING TOOLS

## ARBORS

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

MA24 MA34 MA35 MA35PS MA45PS MA45PSCT

SDS arbors are used in tools having SDS chucks, to drive hole saws in rotary hammers or hammer drills having a straight rotary option.

SDS5/8QC SDS1/2QC

### ARBORS COMPLETE WITH PILOT DRILLS

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

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

**FAST-ADAPT® CHUCK**
Allow for fast keyless insertion and removal of any 1/4", 3/8" or 7/16" hex shank power tool accessory that has a power groove. Fits 3/8" and larger chucks.

MQC38

MQC14

M44N01 Adapter

M44NH01 Hex Adapter

MES101

MAPD301

MPD401

ME381 Extension

WSFEXT5 Extension

ME121 Extension

7/16" shank extensions work best with 7/16" shank arbors or Real McCoy® hole saws

Universal Arbor

Pilot Drill

Fast Adapt 5/8 – 18 Thread

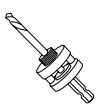
Fast Adapt 1/2 – 20 Thread

## PILOT DRILLS AND ACCESSORIES

| Model Number | Computer Number | Description |
|---|---|---|
| For use with MHS, MHSA, MHSG, MHST hole saws | | |
| MAPD301 | 139113 | 3 3/32" X 1/4" (78.6mm X 6.5mm) Pilot Drill - 1-Pk |
| MAPD3C | 139212 | 3 3/32" X 1/4" (78.6mm X 6.5mm) Pilot Drill - 1-Pk, Crd |
| MAPD310 | 139120 | 3 3/32" X 1/4" (78.6mm X 6.5mm) Pilot Drill - 10-Pk |
| MAPD325 | 139137 | 3 3/32" X 1/4" (78.6mm X 6.5mm) Pilot Drill - 25-Pk |
| MAPD3100 | 139144 | 3 3/32" X 1/4" (78.6mm X 6.5mm) Pilot Drill - 100-Pk |
| MAPD3CT | 139229 | 3 3/32" X 1/4" (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, MK, TA, TAD, AD hole saws | | |
| TACPD4S* | 122047 | 3 1/16" X 1/4" (78mm X 6.5mm ) Pilot Drill - 1-Pk, Card |
| MPD4S01 | 140799 | 3 1/16" X 1/4" (78mm X 6.5mm) Pilot Drill - 1-Pk |
| MPD4S10 | 140683 | 3 1/16" X 1/4" (78mm X 6.5mm) Pilot Drill - 10-Pk |
| MPD4S25 | 140720 | 3 1/16" X 1/4" (78mm X 6.5mm) Pilot Drill - 25-Pk |
| MPD4S100 | 140690 | 3 1/16" X 1/4" (78mm X 6.5mm) Pilot Drill - 100-Pk |
| TACPD4* | 120043 | 4 5/16" X 1/4" (110mm X 6.5mm) Pilot Drill - 1-Pk, Card |
| MPD401 | 140775 | 4 5/16" X 1/4" (110mm X 6.5mm) Pilot Drill - 1-Pk |
| MPD410 | 140478 | 4 5/16" X 1/4" (110mm X 6.5mm) Pilot Drill - 10-Pk |
| MPD425 | 140522 | 4 5/16" X 1/4" (110mm X 6.5mm) Pilot Drill - 25-Pk |
| MPD4100 | 140492 | 4 5/16" X 1/4" (110mm X 6.5mm) Pilot Drill - 100-Pk |
| TACPD4SCT* | 120012 | 2 3/4" X 1/4" (73mm X 6.5mm) Carbide Tipped Pilot Drill - 1-Pk, Card |
| MPD4SCT01 | 140874 | 2 3/4" X 1/4" (73mm X 6.5mm) Carbide Tipped Pilot Drill - 1-Pk |
| MPD4SCT05 | 140881 | 2 7/8" X 1/4" (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 quantities available. See current price list.

| Item | Model Number | Computer Number | Description |
|---|---|---|---|
| Universal Arbor | MQRAC | 143042 | Works with adapters MQR58C and MQR12C |
| Pilot Drill | MQRPDC | 143035 | Works with MQRAC - Fast Adapt Arbor |
| 5/8 – 18 Thread | MQR58C | 143011 | Fits Hole Saw sizes 1 1/4" (32mm) and larger |
| 1/2 – 20 Thread | MQR12C | 143028 | Fits Hole Saw sizes 9/16" (14mm) to 1 3/16" (30mm) |
| Combo Pack | MQR5812C | 143004 | Includes: (3) MQR58 Adapters and (2) MQR12 Adapters |



# HOLE CUTTING & BORING TOOLS

## SHALLOW CARBIDE TIPPED HOLE CUTTERS

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

### APPLICATIONS

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

### BENEFITS

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

**SHALLOW CUTTERS** DEPTH 3/16" (4.5 MM)

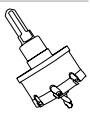
| INCHES | MM | MODEL # | PART # |
|---|---|---|---|
| 9/16" | 14 | CTS09 | 166034 |
| 5/8" | 16 | CTS10 | 166041 |
| 11/16" | 17 | CTS11 | 166058 |
| 3/4" | 19 | CTS12 | 166065 |
| | 20 | CTS125 | 166577 |
| 13/16" | 21 | CTS13 | 166072 |
| 7/8" | 22 | CTS14 | 166089 |
| 15/16" | 24 | CTS15 | 166096 |
| | 25 | CTS155 | 166584 |
| 1" | 25 | CTS16 | 166102 |
| 1 1/16" | 27 | CTS17 | 166119 |
| 1 1/8" | 29 | CTS18 | 166126 |
| 1 3/16" | 30 | CTS19 | 166133 |
| 1 7/32" | 31 | CTS195 | 166140 |
| 1 1/4" | 32 | CTS20 | 166157 |
| | 32 | CTS205 | 166591 |
| 1 15/16" | 33 | CTS21 | 166164 |
| 1 3/8" | 35 | CTS22 | 166171 |
| 1 7/16" | 37 | CTS23 | 166188 |
| | 38 | CTS235 | 166607 |

**SHALLOW CUTTERS** DEPTH 3/16" (4.5 MM)

| INCHES | MM | MODEL # | PART # |
|---|---|---|---|
| 1 1/2" | 38 | CTS24 | 166195 |
| 1 9/16" | 40 | CTS25 | 166201 |
| 1 5/8" | 41 | CTS26 | 166218 |
| 1 11/16" | 43 | CTS27 | 166225 |
| 1 3/4" | 44 | CTS28 | 166232 |
| 1 13/16" | 46 | CTS29 | 166249 |
| 1 7/8" | 48 | CTS30 | 166256 |
| 1 15/16" | 49 | CTS31 | 166263 |
| | 50 | CTS315 | 166614 |
| 2" | 51 | CTS32 | 166270 |
| 2 1/8" | 54 | CTS34 | 166287 |
| 2 3/16" | 55.5 | CTS35 | 166294 |
| 2 1/4" | 57 | CTS36 | 166300 |
| 2 15/16" | 59 | CTS37 | 166317 |
| 2 3/8" | 60 | CTS38 | 166324 |
| 2 7/16" | 62 | CTS39 | 166331 |
| 2 1/2" | 64 | CTS40 | 166348 |
| 2 9/16" | 65 | CTS41 | 166355 |
| 2 5/8" | 67 | CTS42 | 166362 |
| 2 11/16" | 68.5 | CTS435 | 166379 |

**SHALLOW CUTTERS** DEPTH 3/16" (4.5 MM)

| INCHES | MM | MODEL # | PART # |
|---|---|---|---|
| 2 3/4" | 70 | CTS44 | 166386 |
| 2 13/16" | 71.5 | CTS45 | 166393 |
| 2 7/8" | 73 | CTS46 | 166409 |
| 2 15/16" | 74.5 | CTS47 | 166416 |
| 3" | 76 | CTS48 | 166423 |
| 3 1/8" | 79 | CTS50 | 166430 |
| 3 1/4" | 83 | CTS52 | 166447 |
| 3 3/8" | 86 | CTS54 | 166454 |
| 3 1/2" | 89 | CTS56 | 166461 |
| 3 5/8" | 92 | CTS58 | 166478 |
| 3 3/4" | 95 | CTS60 | 166485 |
| 3 7/8" | 98 | CTS62 | 166492 |
| 4" | 102 | CTS64 | 166508 |
| 4 1/8" | 105 | CTS66 | 166515 |
| 4 1/4" | 108 | CTS68 | 166522 |
| 4 3/8" | 111 | CTS70 | 166539 |
| 4 1/2" | 114 | CTS72 | 166546 |
| 4 3/4" | 121 | CTS76 | 166553 |
| 5" | 127 | CTS80 | 166560 |



## 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
- Pipe
- Aluminum
- PVC/ABS
- Plastic

### BENEFITS

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

**DEEP CUTTERS** DEPTH 1" (25 MM)

| INCHES | MM | MODEL # | PART # |
|---|---|---|---|
| 9/16" | 14 | CTD09 | 167024 |
| 5/8" | 16 | CTD10 | 167031 |
| 11/16" | 17 | CTD11 | 167048 |
| 3/4" | 19 | CTD12 | 167055 |
| | 20 | CTD125 | 167437 |
| 13/16" | 21 | CTD13 | 167062 |
| 7/8" | 22 | CTD14 | 167079 |
| 15/16" | 24 | CTD15 | 167086 |
| | 25 | CTD155 | 167444 |
| 1" | 25 | CTD16 | 167093 |
| 1 1/16" | 27 | CTD17 | 167109 |
| 1 1/8" | 29 | CTD18 | 167116 |
| 1 3/16" | 30 | CTD19 | 167123 |
| 1 1/4" | 32 | CTD20 | 167130 |
| | 32 | CTD205 | 167451 |
| 1 5/16" | 33 | CTD21 | 167147 |
| 1 3/8" | 35 | CTD22 | 167154 |
| 1 7/16" | 37 | CTD23 | 167161 |
| | 38 | CTD235 | 167468 |
| 1 1/2" | 38 | CTD24 | 167178 |

**DEEP CUTTERS** DEPTH 1" (25 MM)

| INCHES | MM | MODEL # | PART # |
|---|---|---|---|
| 1 9/16" | 40 | CTD25 | 167185 |
| 1 5/8" | 41 | CTD26 | 167192 |
| 1 11/16" | 43 | CTD27 | 167208 |
| 1 3/4" | 44 | CTD28 | 167215 |
| 1 13/16" | 46 | CTD29 | 167222 |
| 1 7/8" | 48 | CTD30 | 167239 |
| 1 15/16" | 49 | CTD31 | 167246 |
| | 50 | CTD315 | 167475 |
| 2" | 51 | CTD32 | 167253 |
| 2 1/8" | 54 | CTD34 | 167260 |
| 2 1/4" | 57 | CTD36 | 167277 |
| 2 3/8" | 60 | CTD38 | 167284 |
| 2 1/2" | 64 | CTD40 | 167291 |
| 2 9/16" | 65 | CTD41 | 167307 |
| 2 5/8" | 67 | CTD42 | 167314 |
| 2 3/4" | 70 | CTD44 | 167321 |
| 2 7/8" | 73 | CTD46 | 167338 |
| 3" | 76 | CTD48 | 167345 |
| 3 1/4" | 83 | CTD52 | 167352 |
| 3 1/2" | 89 | CTD56 | 167369 |

**DEEP CUTTERS** DEPTH 1" (25 MM)

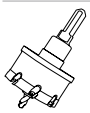
| INCHES | MM | MODEL # | PART # |
|---|---|---|---|
| 3 5/8" | 92 | CTD58 | 167376 |
| 3 3/4" | 95 | CTD60 | 167383 |
| 4" | 102 | CTD64 | 167390 |
| 4 1/8" | 105 | CTD66 | 167406 |
| 4 1/4" | 108 | CTD68 | 167413 |
| 4 1/2" | 114 | CTD72 | 167420 |

**SHALLOW CUTTER ACCESSORIES**

| Description | Model | Part No. |
|---|---|---|
| Set Screw | CTSW01 | 166003 |
| Stepped Pilot Drill | CTSP | 166010 |
| Ejector Spring | CTSS | 166027 |

**DEEP CUTTER ACCESSORIES**

| Description | Model No. | Part No. |
|---|---|---|
| Set Screw | CTSW01 | 166003 |
| Stepped Pilot Drill | CTDP | 167000 |
| Ejector Spring | CTDS | 167017 |



# HOLE CUTTING & BORING TOOLS

## 6 PC CARBIDE TIPPED SHALLOW CUT ELECTRICIAN

CTS01 / 166720

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

Kit contains:

1 - CTS14 7/8" (22mm)
1 - CTS18 1-1/8" (29mm)
1 - CTS22 1-3/8" (35mm)
1 - CTSP Pilot drill
1 - CTSS Ejector spring
1 - Hex key

## 9 PC CARBIDE TIPPED SHALLOW CUT MASTER ELECTRICIAN

CTS02 / 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

CTD01 / 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
- Copper
- Brass
- Aluminum
- Plexiglass
- Sheet metal
- PVC
- Plasterboard
- Hole enlarging

### BENEFITS

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

| DESCRIPTION | MODEL # | COMPUTER # | SHANK INCHES | POINT TYPE |
|---|---|---|---|---|
| 1/8" - 1/2" by 32nds | ESD01 | 124003 | 1/4" | Self-Starting |
| 3/16" - 1/2" by 16ths | ESD02 | 124010 | 1/4" | Self-Starting |
| 3/16" - 7/8" by 16ths | ESD03 | 124027 | 3/8" | Self-Starting |
| 1/4" - 3/4" by 16ths | ESD04 | 124034 | 3/8" | Self-Starting |
| 1/4" - 1 1/8" by 16ths | ESD05 | 124041 | 3/8" | Self-Starting |
| 1/8" - 3/8" by 16ths | ESD06 | 124058 | 1/4" | Self-Starting |
| 1/8" - 1/2" by 16ths | ESD07 | 124065 | 1/4" | Self-Starting |
| 9/16" - 1" by 16ths | ESD08 | 124072 | 3/8" | Hole Enlarging 1/2" or larger Pilot Holes |
| 3/4" - 1 3/8" by 16ths | ESD09 | 124089 | 1/2" | Hole Enlarging 3/4" or larger Pilot Holes |
| 1/4" - 7/8" by 16ths | ESD10 | 124096 | 3/8" | Self-Starting |
| 1/4" - 1 3/8" by 8ths | ESD11 | 124102 | 3/8" | Self-Starting |
| TiN Coated Step Drills | | | | |
| 1/4" - 1/2" by 32nds | ESD01TIN | 124119 | 1/4" | Self-Starting |
| 3/16" - 1/2" by 16ths | ESD02TIN | 124126 | 1/4" | Self-Starting |
| 3/16" - 7/8" by 16ths | ESD03TIN | 124133 | 3/8" | Self-Starting |
| 1/4" - 3/4" 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

# HOLE CUTTING & BORING TOOLS

## 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
- 7/16" quick change shank allows for use with quick change chuck

| BORE DIAMETER | | SHANK SIZE* | MODEL NUMBER | COMPUTER NUMBER |
|---|---|---|---|---|
| INCHES | MM | | | |
| 36″ LENGTH | | | | |
| 9/16" | 14 | 7/16" | WSAB360562 | 125178 |
| 5/8" | 16 | 7/16" | WSAB360625 | 125185 |
| 11/16" | 17 | 7/16" | WSAB360687 | 125192 |
| 3/4" | 19 | 7/16" | WSAB360750 | 125239 |
| 13/16" | 21 | 7/16" | WSAB360812 | 125246 |
| 7/8" | 22 | 7/16" | WSAB360875 | 125253 |
| 15/16" | 24 | 7/16" | WSAB360937 | 125260 |
| 1" | 25 | 7/16" | WSAB361000 | 125277 |
| 1 1/16" | 27 | 7/16" | WSAB361062 | 125284 |
| 1 1/8" | 29 | 7/16" | WSAB361125 | 125291 |
| 18″ LENGTH | | | | |
| 3/8" | 9.5 | 3/8" | WSAB180375 | 125505 |
| 7/16" | 11 | 7/16" | WSAB180437 | 125512 |
| 1/2" | 13 | 7/16" | WSAB180500 | 125529 |
| 9/16" | 14 | 7/16" | WSAB180562 | 125536 |
| 5/8" | 16 | 7/16" | WSAB180625 | 125543 |
| 11/16" | 17 | 7/16" | WSAB180687 | 125550 |
| 3/4" | 19 | 7/16" | WSAB180750 | 125567 |
| 13/16" | 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 |
| 1 1/16" | 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 | BORE DIAMETER MM | SHANK SIZE* | MODEL NUMBER | COMPUTER NUMBER |
|---|---|---|---|---|
| 7-1/2˝ LENGTH | | | | |
| 1/4" | 6 | 1/4" | WSAB750250 | 125772 |
| 5/16" | 8 | 5/16" | WSAB750312 | 125789 |
| 3/8" | 10 | 3/8" | WSAB750375 | 125796 |
| 7/16" | 11 | 7/16" | WSAB750437 | 124973 |
| 1/2" | 13 | 7/16" | WSAB750500 | 124980 |
| 9/16" | 14 | 7/16" | WSAB750562 | 124997 |
| 5/8" | 16 | 7/16" | WSAB750625 | 125666 |
| 11/16" | 17 | 7/16" | WSAB750687 | 125673 |
| 3/4" | 19 | 7/16" | WSAB750750 | 125680 |
| 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 1/8" | 29 | 7/16" | WSAB751125 | 125734 |
| 1 1/4" | 32 | 7/16" | WSAB751250 | 125741 |
| 1 3/8" | 35 | 7/16" | WSAB751375 | 125758 |
| 1 1/2" | 38 | 7/16" | WSAB751500 | 125765 |

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

## SPADE BITS

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

### APPLICATIONS

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

### BENEFITS

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

| DESCRIPTION | | 10/BOX | | 1/CARD | |
|---|---|---|---|---|---|
| INCHES | MM | MODEL # | COMP # | MODEL # | COMP # |
| 1/4" | 6mm | WSB250 | 125000 | WSB250C | 125307 |
| 5/16" | 8mm | WSB312 | 125017 | WSB312C | 125314 |
| 3/8" | 10mm | WSB375 | 125024 | WSB375C | 125321 |
| 7/16" | 11mm | WSB437 | 125031 | WSB437C | 125338 |
| 1/2" | 13mm | WSB500 | 125048 | WSB500C | 125345 |
| 9/16" | 14mm | WSB562 | 125055 | WSB562C | 125352 |
| 5/8" | 16mm | WSB625 | 125062 | WSB625C | 125369 |
| 11/16" | 17mm | WSB687 | 125079 | WSB687C | 125376 |
| 3/4" | 19mm | WSB750 | 125086 | WSB750C | 125383 |

| DESCRIPTION | | 10/BOX | | 1/CARD | |
|---|---|---|---|---|---|
| INCHES | MM | MODEL # | COMP # | MODEL # | COMP # |
| 13/16" | 21mm | WSB812 | 125093 | WSB812C | 125390 |
| 7/8" | 22mm | WSB875 | 125109 | WSB875C | 125406 |
| 15/16" | 24mm | WSB937 | 125116 | WSB937C | 125413 |
| 1" | 25mm | WSB1000 | 125123 | WSB1000C | 125420 |
| 1 1/8" | 29mm | WSB1125 | 125130 | WSB1125C | 125437 |
| 1 1/4" | 32mm | WSB1250 | 125147 | WSB1250C | 125444 |
| 1 3/8" | 35mm | WSB1375 | 125154 | WSB1375C | 125451 |
| 1 1/2" | 38mm | WSB1500 | 125161 | WSB1500C | 125468 |

PACKAGING: 1 per card, 5 per standard pack

# RECIPROCATING SAW BLADES

| 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



CTR

## CARBIDE TIPPED RECIPROCATING SAW BLADES

The 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.

### APPLICATIONS

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

### BENEFITS

- More cost effective than bi-metal blades when cutting stainless steel, high strength alloys and other tough metals
- Precision–ground carbide teeth
- Maximum cutting performance in thick metal applications
- 1" x .050" blade body for straighter cuts and less vibration
- Available in 4", 6", 9" and 12" lengths

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 6" | 1" | 0.050 | 152 | 25 | 1.3 | CTR608MC5 | 405751 | 5 | Card |
| 8 | 6" | 1" | 0.050 | 152 | 25 | 1.3 | CTR608MC15 | 405782 | 15 | Tube |
| 8 | 9" | 1" | 0.050 | 229 | 25 | 1.3 | CTR908MC1 | 405225 | 1 | Card |
| 8 | 9" | 1" | 0.050 | 229 | 25 | 1.3 | CTR908MC5 | 405768 | 5 | Card |
| 8 | 9" | 1" | 0.050 | 229 | 25 | 1.3 | CTR908MC15 | 405799 | 15 | Tube |
| 8 | 12" | 1" | 0.050 | 305 | 25 | 1.3 | CTR1208MC1 | 405232 | 1 | Card |
| 8 | 12" | 1" | 0.050 | 305 | 25 | 1.3 | CTR1208MC5 | 405775 | 5 | Card |
| 8 | 12" | 1" | 0.050 | 305 | 25 | 1.3 | CTR1208MC15 | 405805 | 15 | Tube |

# RECIPROCATING SAW BLADES



## SPARC® RECIPROCATING SAW BLADES

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

### FEATURES

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

### BENEFITS

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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# 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

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

### BENEFITS

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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES

## 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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |


| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES


## 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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |


| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES

## 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

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

### BENEFITS

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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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

- 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES

## 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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 8/11 | 6” | 1” | 0.062 | 152 | 25 | 1.6 | RBR662811T03 | 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 | RBR962811T03 | 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 | RBR1262811T03 | 392556 | 3 | Card |
| 8/11 | 12” | 1” | 0.062 | 305 | 25 | 1.6 | RBR1262811T20 | 392563 | 20 | Tube |


AUTO SALVAGE

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | RBSA1218T05 | 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 |

# RECIPROCATING SAW BLADES


## AIR SAW

### AIR SAW RECIPROCATING SAW BLADES

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

### FEATURES

- Available in .025" and .035" thickness
- Blade widths of 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 0.6 | 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 |


| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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

## 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

- 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES


MORSE FIRE+RESCUE

## 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.

### FEATURES

- Available in .062" thickness
- Available in 7/8" blade width
- Straight tooth pitch
- Optimized set pattern
- Bi-metal construction

### BENEFITS

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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 | RBFR96214WT03 | 403696 | 3 | 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 | RBFR126214WT03 | 403719 | 3 | Card |
| 14 | 12" | 7/8" | 0.062 | 305 | 22 | 1.6 | RBFR126214WT20 | 403535 | 20 | Tube |

## PLASTER RECIPROCATING SAW BLADES

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

### FEATURES

- Available in .050" thickness
- Blade width of 3/4"
- Special "V" tooth design
- Bi-metal construction

### BENEFITS

- .050" blades for increased rigidity and heavier feed pressures
- 3/4" wide blades provide flexibility
- Cuts in both directions
- Long cutting life
- Heat and wear resistant

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 beam 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES



DIAMONDGRIT™

## 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

| TPI | LENGTH | WIDTH | GRIT | LENGTH [MM] | WIDTH [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|
| DG | 6" | 3/4" | Coarse | 152 | 20 | RBDG6C | 129701 | 1 | Card |
| DG | 9" | 3/4" | Coarse | 229 | 20 | RBDG9C | 129718 | 1 | Card |

# CARBIDE GRIT

## 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

### 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 |
|---|---|---|---|---|---|---|---|---|---|
| Grit | 4" | 3/4" | Coarse | 102 | 20 | RCTCG4 | 402750 | 1 | Card |
| Grit | 4" | 3/4" | Coarse | 102 | 20 | RTCG4T03 | 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 | RTCG6T03 | 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 | RTCG8T03 | 403382 | 3 | Card |
| Grit | 8" | 3/4" | Coarse | 203 | 20 | RTCG8T25 | 402934 | 25 | Tube |

# PALLET DISMANTLER

## PALLET DISMANTLER RECIPROCATING SAW BLADES

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

### FEATURES

- Available in 3/4" width by .035" thickness
- Round nose design
- Straight tooth pitch
- Narrow kerf

### BENEFITS

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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# RECIPROCATING SAW BLADES


## CARBIDE TIPPED

### 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

| TPI | LENGTH | WIDTH | THICKNESS | LENGTH [MM] | WIDTH [MM] | THICKNESS [MM] | MODEL # | PART # | QUANTITY PER PKG. | PACKAGE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 6" | 3/4" | 0.050 | 152 | 20 | 1.3 | RTCT603C | 403047 | 1 | Card |
| 3 | 6" | 3/4" | 0.050 | 152 | 20 | 1.3 | RTCT603T03 | 403443 | 3 | Card |
| 3 | 6" | 3/4" | 0.050 | 152 | 20 | 1.3 | RTCT603T25 | 403122 | 25 | Tube |
| 3 | 9" | 3/4" | 0.050 | 229 | 20 | 1.3 | RTCT903C | 403061 | 1 | Card |
| 3 | 9" | 3/4" | 0.050 | 229 | 20 | 1.3 | RTCT903T03 | 403467 | 3 | Card |
| 3 | 9" | 3/4" | 0.050 | 229 | 20 | 1.3 | RTCT903T25 | 403146 | 25 | Tube |
| 3 | 12" | 3/4" | 0.050 | 305 | 20 | 1.3 | RTCT1203C | 403085 | 1 | Card |
| 3 | 12" | 3/4" | 0.050 | 305 | 20 | 1.3 | RTCT1203T03 | 403481 | 3 | Card |
| 3 | 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 |


# JABSAW

## JAB SAWS

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


| Description | Model# | Part# | Quantity Per Pkg. | Package Type |
|---|---|---|---|---|
| Jab Saw with 6" (152mm) .050" (1.30mm) 6 TPI Blade | JSHRBC01 | 397063 | 1 | Card |

Minimum order quanity of 6

# RECIP KITS & ASSORTMENTS

## 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 |
|---|---|---|---|
| General Purpose Kit | RBKITGP01 | 397483 | (5) ea: RB618, (6) ea: RB65006, (2) ea: RB814, RB8501014, RB95006 + Storage Tube |
| Heavy Duty Kit | RBKITHD01 | 397490 | (4) ea: RBWP64218, (2) ea: RB66210, RBFR66214W, RB96210, RBWP94214 + Storage Tube |
| Demolition Kit | RBKITDM01 | 397971 | (3) ea: RBR662811, (2) ea. RB66206, RB66210, RB96206, RBR962811 + Storage Tube |
| Contractor General Use Kit | RBKIT01 | 405003 | (14) ea: RB63506, (7) ea: RB610, RB61014, RB614, RB618, |
| Contractor Heavy Duty Kit | RBKIT02 | 405010 | (10) ea: RB65006, (5) ea: RB65058, RB6501014, RB65014, RB65018 |
| Demolition Kit | RBKIT03 | 405027 | (5) ea: RB65006, RB65058, RB6501014, (4) ea: RB66206 / (8) ea: RB66210 |
| Assortment Card | RBP01 | 403030 | (1) ea: RB414, RB418, RB614, RB618, RB65006 |

METAL DEVIL METAL CUTTING

# CIRCULAR SAW BLADES

| BLADE TYPE | 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, I-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″ 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 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.S.A.

| Blade Type | Applications |
|---|---|
| **Metal Devil CL**™ | Designed to be optimized for use on cordless metal cutting circular saws. |
| **Metal Devil NXT**® Steel | Used to cut angle iron 1/4" (6mm) max thickness, steel plate, channel iron, I-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**® 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**® 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
- ▼ Stainless Steel (¼ or less)
- ▼ Aluminum
- ▼ Steel Studs (14˝ only)

### BENEFITS

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

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

▼ Denotes CL (Cordless Blades)


| Blade Diameter | Part Number | #of Teeth | Arbor | Applications | Computer# | MAX RPM | Machine |
|---|---|---|---|---|---|---|---|
| **8"** 203mm | CSM842NSC | 42 | 5/8 | Steel | 101387 | 5800 | **Milwaukee** 6370-20 |
| | CSM848NSC | 48 | 5/8 | Steel | 101394 | 5800 | |
| | CSM850NSSC | 50 | 5/8 | Stainless | 101684 | 5800 | |
| | CSM860NAC | 60 | 5/8 | Aluminum | 101622 | 5800 | |
| | CSM868NTSC | 68 | 5/8 | Thin Steel | 101806 | 5800 | |
| **8-1/4"** 210mm | CSM82548NSC | 48 | 5/8 KO | Steel | 101370 | 5800 | **Dewalt** DW384, **Makita** 5008MGA |
| **9"** 229mm | CSM948NSC | 48 | 1 | Steel | 101400 | 3200 | **Morse** CSM9MB / CSM9NXTB<br>**Evolution** Steel Saw 5<br>**Jancy** MCSL09 / MCSL09-2 |
| | CSM956NSSC | 56 | 1 | Stainless | 101691 | 3200 | |
| | CSM968NTSC | 68 | 1 | Thin Steel | 101813 | 3200 | |
| | CSM972NAC | 72 | 1 | Aluminum | 101639 | 3200 | |
| **10"** 254mm | CSM1052NTSC | 52 | 5/8 KO | Thin Steel | 101820 | 5200 | **Bosch** 4410 / 4405<br>**Dewalt** DW713<br>**Ridgid** MS1065LZA |
| | CSM1072NAC | 72 | 5/8 KO | Aluminum | 101646 | 5500 | |
| **12"** 305mm | CSM1260NSC | 60 | 1 | Steel | 101561 | 1800 | **Makita** LC1230 |
| | CSM1280NAC | 80 | 1 | Aluminum | 101653 | 3800 | |
| | CSM1280NTSC | 80 | 1 | Thin Steel | 101837 | 2000 | |
| **14"** 356mm | CSM1466NSC | 66 | 1 | Steel | 101318 | 1800 | **Morse** CSM14MB<br>**Dewalt** DW872<br>**Evolution** Fury2 / Rage2<br>**Evolution** Steel Saw2<br>**Jancy** MCCS14 MCCS14-2<br>**Milwaukee** 6190-20<br>**Ridgid** 614 |
| | CSM1480NAC | 80 | 1 | Aluminum | 101660 | 3800 | |
| | CSM1481NSTC | 81 | 1 | Steel Studs | 100786 | 1800 | |
| | CSM1490NTSC | 90 | 1 | Thin Steel | 101844 | 1800 | |
| | CSM1490NSSC | 90 | 1 | Stainless | 100793 | 1800 | |

5⅜" blades include special bushings allowing them to fit 20mm, 10mm and ⅝" arbor holes.
*⅝ KO fits both diamond and circular arbors. Blades in red indicate international machine arbor sizes.

# CIRCULAR SAW BLADES

## METAL DEVIL NXT® CIRCULAR SAWS

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

### 7″ CSM7NXTB

COMPUTER NO. 100960

**INCLUDES**

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

**CUTTING CAPABILITIES**

2⅜" Maximum Cutting Reach
¼" Maximum Thickness of Cut Mild Steel
0-45° Bevel Cut

**SPECIFICATIONS**

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

### 9″ CSM9NXTB

COMPUTER NO. 100977

**INCLUDES**

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

**CUTTING CAPABILITIES**

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

**SPECIFICATIONS**

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

### 14″ CSM14MB

COMPUTER NO. 101172

**INCLUDES**

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

**CUTTING CAPABILITIES**

| | 45° | 90° |
|---|---|---|
| ROUND | 4 ⅛" | 5 ⅛" |
| SQUARE | 3 ½" X 3 ½" | 4 ¾" X 4 ¾" |
| RECTANGLE | 3 ⅛" X 4 ⅜" | 3 ¾" X 7 ¼" |

**SPECIFICATIONS**

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

# METAL CUTTING ACCESSORIES


Metal Devil V-BLOCKS

## METAL DEVIL V-BLOCKS

CSP14A01 / 100724

Maximum Material Dimensions to be used with V-Blocks:

- Square 3 7/8"
- Round 3"

### BENEFITS

- Durable Steel Body
- Securely Holds Rounds, Squares and Rectangular Materials
- Can Employ Several Vice Configurations to Accommodate a Variety of Structural Materials
- Strengthen The Clamping Performance of the Vice System
- Improves Cutting Performance on Structural Shapes
- Optimizes Blade Life
- Provides Precise Cutting Results
- Reduces Opportunity for Machine Damage

METAL DEVIL ABRASIVE CUT-OFF WHEELS

# DIAMOND EDGE

| | | |
|---|---|---|
| **4 ½"** 114MM **13,000 RPM** |  | |
| **6"** 152MM **10,185 RPM** |  |  |
| **7"** 178MM **8,730 RPM** |  |  |
| **12"** 305MM **6,115 RPM** |  |  |
| **14"** 356MM **5,500 RPM** |  |  |

# ABRASIVE CUT-OFF WHEELS


DIAMOND EDGE

## METAL DEVIL DIAMOND EDGE

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

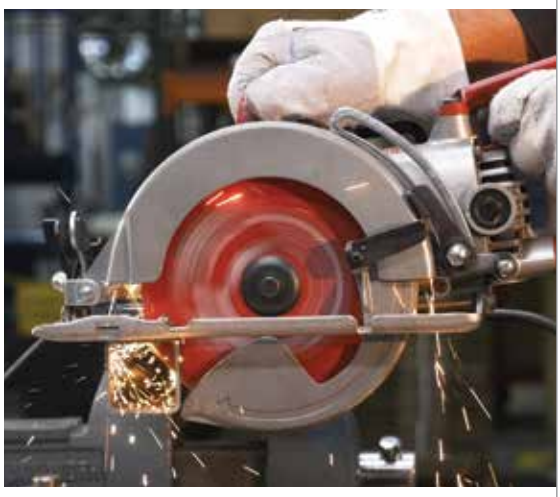
### APPLICATIONS

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

### BENEFITS

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

| BLADE DIAMETER | THICKNESS | PART NUMBER | COMPUTER NUMBER | ARBOR HOLE | MAX RPM |
|---|---|---|---|---|---|
| **4.5"** (114mm) | .050 | CSD4500C | 102001 | 7/8" - 5/8" | 13,000 |
| **6"** (152mm) | .050 | CSD6000C | 102018 | 7/8" - 5/8" | 10,185 |
| **7"** (178mm) | .060 | CSD7000C | 102025 | 7/8" - 5/8" KO | 8,730 |
| **12"** (305mm) | .125 | CSD12000C | 102032 | 1" - 20mm | 6,115 |
| **14"** (356mm) | .125 | CSD14000C | 102049 | 1" - 20mm | 5,500 |




M. K. MORSE

# PORTABLE BAND SAW BLADES

| BLADE TYPE | 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. |

# PORTABLE BAND SAW BLADES



811&1216

## 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.

### APPLICATIONS

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

### BENEFITS

- 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 | | TPI | SET | BOXED 3/BOX | | BOXED 25/BOX | | BULK 100/CARTON | |
|---|---|---|---|---|---|---|---|---|---|
| INCHES | MM | | | MODEL # | COMP. # | MODEL # | COMP. # | MODEL # | COMP. # |
| HEAVY WALL BLADES | | | | | | | | | |
| 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 | | | | | | | | | |
| 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 |

# PORTABLE BAND SAW BLADES

## 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

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

### BENEFITS

- Shock resistant teeth great for cutting machinable metals
- Variable pitch allows a broader range of applications and 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 X THICKNESS | | TPI | SET | BOXED 3/BOX | | BOXED 25/BOX | | BULK 100/CARTON | |
|---|---|---|---|---|---|---|---|---|---|
| INCHES | MM | | | MODEL # | COMP. # | MODEL # | COMP. # | MODEL # | COMP. # |
| 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

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

### BENEFITS

- Shock resistant teeth great for cutting machinable metals
- Variable pitch allows a broader range of applications and 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 X THICKNESS | | | | BOXED 3/BOX | | BOXED 100/CARTON | | 1/CARD - 5/STANDARD PACK | |
|---|---|---|---|---|---|---|---|---|---|
| INCHES | MM | TPI | SET | MODEL # | COMP. # | MODEL # | COMP. # | MODEL # | COMP. # |
| 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 | | |

# PORTABLE BAND SAW BLADES

## 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 | | TPI | SET | PITCH | MODEL # | COMPUTER # |
|---|---|---|---|---|---|---|
| INCHES | MM | | | | | |
| 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 X THICKNESS | | TPI | SET | BOXED | | BULK | |
|---|---|---|---|---|---|---|---|
| INCHES | MM | | | MODEL # | COMPUTER # | MODEL # | COMPUTER # |
| **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.

| LENGTH X WIDTH X THICKNESS | | TEETH PER INCH | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 03 | | 04 | | 06 | | 08 | | 14 | | 18 | | 24 | | 32 | |
| INCHES | MM | MOD# | COMP# | MOD# | COMP# | MOD# | COMP# | MOD# | COMP# | MOD# | COMP# | MOD# | COMP# | MOD# | COMP# | MOD# | COMP# |
| 52-3/4 X 1/4 X .014 | 1340 X 6.4 X .3 | | | | | ZCAB06 | 000178 | | | ZCAB14 | 000185 | ZCAB18 | 000192 | ZCAB24 | 000208 | 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 | | | | | | | ZCCA08A | 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 | | | | | ZCCC06 | 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 | | | | | ZCZC06 | 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 | | | | | ZCGC06 | 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 | | | ZCIC04 | 001076 | | | | | | | | | | | | |
| 72-7/16 X 1/2 X .025 | 1840 X 12.7 X .6 | ZCID03 | 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 | | | | | ZCLC06 | 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 | | |

M. K. MORSE

# JIG SAW BLADES

| 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.

### APPLICATIONS

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

### BENEFITS

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

| RECOMMENDED USE | LENGTH X WIDTH X THICKNESS | | TPI | 25/TUBE | | 5/CARD 10/STANDARD PACK | | 2/CARD 5/STANDARD PACK | | TOOTH STYLE |
|---|---|---|---|---|---|---|---|---|---|---|
| | INCHES | MM | | MODEL# | COMP# | MODEL# | COMP# | MODEL# | COMP# | |
| UNIVERSAL SHANK: Used on all popular jig saw machines accepting universal shank. | | | | | | | | | | |
| Wood, fiber board, asbestos, coarse-cut. | 4 X 3/8 X .035 | 100 X 10 X .9 | 6 | SB3606T25 | 400855 | SB3606C5 | 404549 | SB3606C2 | 397636 | M |
| Wood, plywood, hard-board. | 4 X 3/8 X .035 | 100 X 10 X .9 | 10 | SB3610T25 | 400879 | SB3610C5 | 404556 | SB3610C2 | 397643 | M |
| Non-ferrous metals, Fiberglass, hard rubber, nail-embedded wood. | 4 X 3/8 X .035 | 100 X 10 X .9 | 14 | SB3614T25 | 400893 | SB3614C5 | 404563 | SB3614C2 | 397650 | M |
| Metal 18 gauge to 1/8″. | 3 X 3/8 X .035 | 75 X 10 X .9 | 18 | SB2718T25 | 400794 | SB2718C5 | 404518 | SB2718C2 | 397612 | M |
| Metal and non-ferrous metal up to 1/8″. | 3 X 3/8 X .035 | 75 X 10 X .9 | 24 | SB2724T25 | 400831 | SB2724C5 | 404525 | SB2724C2 | 397629 | M |
| Scroll - non-ferrous metals, fiberglass, plywood. | 3-5/8 X 3/16 X .035 | 92 X 5 X .9 | 12 | SB412ST25 | 399487 | SB412SC5 | 404532 | SB412SC2 | 397667 | M |
| 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 | M |
| T-SHANK: Used on all popular jig saw machines accepting Bosch or T-shank. | | | | | | | | | | |
| Wood, fiber board, asbestos, roughing work. | 4 X 3/8 X .040 | 100 X 8 X 1.0 | 6 | SB0406T25 | 400732 | SB0406C5 | 404600 | SB0406C2 | 397704 | M |
| General purpose - wood cutting, compositions, plastic. | 4 X 3/8 X .035 | 100 X 8 X .9 | 8 | SB0408T25 | 400756 | SB0408C5 | 404617 | SB0408C2 | 397711 | M |
| All woods, composition material, plastics, plywood. Steel and non-ferrous | 4 X 3/8 X .035 | 100 X 8 X .9 | 10 | SB0410T25 | 400770 | SB0410C5 | 404624 | SB0410C2 | 397728 | M |
| Steel and non-ferrous Metal 1/8″ thick and up. | 3 X 3/8 X .035 | 75 X 10 X .9 | 14 | SB0314T25 | 400671 | SB0314C5 | 404570 | SB0314C2 | 397674 | M |
| Metals over 18 gauge, tubing, conduit. | 3 X 3/8 X .035 | 75 X 10 X .9 | 18 | SB0318T25 | 400695 | SB0318C5 | 404587 | SB0318C2 | 397681 | M |
| Thin metal, plastic fine cuts under 18 gauge | 3 X 3/8 X .035 | 75 X 10 X .9 | 24 | SB0324T25 | 400718 | SB0324C5 | 404594 | SB0324C2 | 397698 | M |
| Softwood, aluminum, non-ferrous metal up to 3/8″, sandwich material up to 3-3/4″. Extra long blade. | 5-1/4 X 3/8 X .042<br>5-1/4 X 3/8 X .042 | 132 X 8 X 1.1<br>132 X 8 X 1.1 | 12<br>21 | SB0512LT25<br>SB0521LT25 | 401272<br>401319 | SB0512LC5<br>SB0521LC5 | 404631<br>404648 | | | M<br>M |

**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.

### APPLICATIONS

- Softwood
- Hardwood
- Chipboards
- Plywood
- Plastic

### BENEFITS

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

| RECOMMENDED USE | LENGTH X WIDTH X THICKNESS | | TPI | 25/TUBE | | 5/CARD | | 2/CARD | | TOOTH STYLE |
|---|---|---|---|---|---|---|---|---|---|---|
| | INCHES | MM | | MODEL# | COMP# | MODEL# | COMP# | MODEL# | COMP# | |
| 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 accepting Bosch 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 | M |
| 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 | SC0410RT25 | 400503 | SC0410RC5 | 404945 | SC0410RC2 | 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 | SC0312SC5 | 404884 | SC0312SC2 | 397902 | M |
| Curved cuts/scroll in softwood and hardwood up to 1˝ 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 | SC0416ST25 | 400534 | SC0416SC5 | 404907 | SC0416SC2 | 397957 | CGR |

**TOOTH STYLE:** M (Milled) CGR (Cross Sharpened, Conical Ground)

## CARBIDE GRIT JIG SAW BLADES

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

### APPLICATIONS

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

### BENEFITS

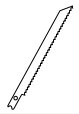
- Super resistance to heat and shock
- Fast cuts with carbide grains bonded to an alloy backer, no snags or binding
- Ideal for cutting materials to hard or abrasive for standard bi-metal blades

| DESCRIPTION | 25/TUBE | | 1/CARD - 5/STANDARD PACK | |
|---|---|---|---|---|
| | MODEL # | COMPUTER # | MODEL # | COMPUTER # |
| 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 ASSORTMENT

6-piece assortments offer lots of versatility; packaged in a vinyl pouch.

| Model # | Computer # | Shank | One Each (6 Pieces/Pouch) | Pouch |
|---|---|---|---|---|
| UNIVERSAL SHANK: Used on all popular jig saw machines accepting Bosch or T-shank. | | | | |
| SBC01 | 402163 | 1/4″ Universal Shank | SB2718, SB2724, SB3606, SB3610, SB3614 | Carded |



M. K. MORSE

# 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



## BI-METAL HACK SAW BLADES

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

### FEATURES

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

### BENEFITS

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

## TRIPLE TOOTH BI-METAL HACK SAW BLADE

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

### APPLICATIONS

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

| LENGTH X WIDTH X THICKNESS | | | 100/TUBE | | 10/TUBE | | 2/CARD 5/STANDARD PACK | |
|---|---|---|---|---|---|---|---|---|
| INCHES | MM | TPI | MODEL # | COMP# | MODEL # | COMP# | MODEL# | COMP# |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 18/24/32 | HHB12182432T100 | 302340 | HHB12182432T10 | 302333 | HHCB12182432-2 | 304092 |


## STANDARD BI-METAL HACK SAW BLADE

Cut wood, plastic or any machinable metal, including conduit, stainless steel tubing, angle iron, copper tubing, structural materials and more. Available in straight and variable pitch tooth designs.

| LENGTH X WIDTH X THICKNESS | | | 100/BOX | | 100/TUBE | | 10 TUBE COLUMN | | 2/CARD 5/STANDARD PACK | |
|---|---|---|---|---|---|---|---|---|---|---|
| INCHES | MM | TPI | MODEL # | COMP# | MODEL # | COMP# | MODEL# | COMP# | MODEL# | COMP# |
| 10 X 1/2 X .023 | 250 X 12.7 X .6 | 18 | HHB1018 | 360180 | | | HHB1018T10 | 300186 | HHCB1018-2 | 304009 |
| 10 X 1/2 X .023 | 250 X 12.7 X .6 | 24 | HHB1024 | 360241 | | | HHB1024T10 | 300247 | HHCB1024-2 | 304016 |
| 10 X 1/2 X .023 | 250 X 12.7 X .6 | 32 | HHB1032 | 360326 | | | HHB1032T10 | 300322 | HHCB1032-2 | 304023 |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 14 | HHB1214 | 362146 | HHB1214T100 | 300100 | HHB1214T10 | 302142 | HHCB1214-2 | 304030 |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 18 | HHB1218 | 362184 | HHB1218T100 | 300117 | HHB1218T10 | 302180 | HHCB1218-2 | 304047 |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 24 | HHB1224 | 362245 | HHB1224T100 | 300124 | HHB1224T10 | 302241 | HHCB1224-2 | 304054 |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 32 | HHB1232 | 362320 | HHB1232T100 | 300131 | HHB1232T10 | 302326 | HHCB1232-2 | 304108 |
| **Variable Pitch** | | | | | | | | | | |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 14/18 | HHB121418 | 362153 | HHB121418T100 | 300148 | HHB121418T10 | 302159 | HHCB121418-2 | 304061 |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 20/24 | HHB122024 | 362160 | HHB122024T100 | 300155 | HHB122024T10 | 302166 | HHCB122024-2 | 304078 |
| 12 X 1/2 X .023 | 300 X 12.7 X .6 | 26/32 | HHB122632 | 362177 | HHB122632T100 | 300162 | HHB122632T10 | 302173 | HHCB122632-2 | 304085 |

# HACK SAW FRAMES


## 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 or flush-cut applications
- Tensioning Handle provides extra torque for straighter cuts and longer blade life

## CONTRACTOR HIGH TENSION

Model No. HHBF04 / 300056

### BENEFITS

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

## CONTRACTOR UTILITY

Model No. HHBF06 / 300063

### BENEFITS

- Precise blade tension with wing nut blade attachment
- Adjusts for either 10" or 12" blade sizes

# 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

- Glass
- Hardened steel
- Stranded cable
- Ceramic tile

### BENEFITS

- Will not tear thin materials
- Carbide grit is permanently bonded to a steel alloy rod
- Cuts in both directions

| DIMENSIONS | | 25/BOX | | 3/TUBE | | 1/CARD 5/PACK | |
|---|---|---|---|---|---|---|---|
| INCHES | MM | MODEL # | COMP# | MODEL # | COMP# | MODEL# | COMP# |
| 10 | 250 | HRTCG10 | 362214 | HRTCG10TO3 | 362351 | HRCTCG10 | 332217 |
| 12 | 300 | HRTCG12 | 362221 | HRTCG12TO3 | 362368 | HRCTCG12 | 332224 |

## CARBIDE GRIT HACK SAW BLADES

Cut difficult materials including hydraulic hose and stranded cables with these specialty blades on a standard hack saw frame.

### APPLICATIONS

- Glass
- Hardened steel
- Stranded cable
- Ceramic tile

### BENEFITS

- Blades cut on both the push and pull stroke for faster cutting and longer life
- Super resistant to heat, wear, abrasion, or “snagging”
- Cuts materials other blades can’t cut
- Carbide grit bonded to the steel blade

| DIMENSIONS | | 25/BOX | | 3/TUBE | | 1/CARD 5/PACK | |
|---|---|---|---|---|---|---|---|
| INCHES | MM | MODEL # | COMP# | MODEL # | COMP# | MODEL# | COMP# |
| 10 | 250 | HHTCG10 | 362191 | HHTCG10TO3 | 362337 | HHCTCG10 | 332194 |
| 12 | 300 | HHTCG12 | 362207 | HHTCG12TO3 | 362344 | HHCTCG12 | 332200 |

## PVC/ABS SAW AND REPLACEMENT BLADES

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

### APPLICATIONS

- PVC
- Plastic
- Wood

### BENEFITS

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

| DESCRIPTION | MODEL # | COMP# |
|---|---|---|
| 12˝ (305mm) Carbon Steel PVC/ABS Saw | HPVC1201 | 330107 |
| 18˝ (450mm) Carbon Steel PVC/ABS Saw | HPVC1801 | 330114 |
| 12˝ (305mm) Carbon Steel Replacement Blade | HPVCB12 | 330121 |
| 18˝ (450mm) Carbon Steel Replacement Blade | HPVCB18 | 330138 |

| DESCRIPTION | MODEL # | COMP# |
|---|---|---|
| Mini hand hack saw frame with 10˝ bi-metal blade | HHBF05-10 | 330077 |

# M. K. MORSE WAREHOUSE ADDRESSES

**CALIFORNIA**
11127 Dora Street
Sun Valley, CA 91352

**FINLAND**
Laippatie 3
FI-00880 Helsinki
Finland

**INDIA**
MK MORSE COMPANY INDIA PVT LTD
GAT NO - 624 / 9,PLOT NO - 5,
GALA NO G-11,INDRAYANI INDUST PREM
CO-OP SOC LTD, KURLI, TAL-KHED
PUNE, MAHARASHTRA 410501
91-9422-3300-36

**U. K.**
Unit 3 The Crossings
Riparian Way
Crosshilla
BD20 7BW
United Kingdom

**WESTERN CANADA**
4265 Phillips Ave
Burnaby BC V5A 2X4

MORSE®
THE M. K. MORSE COMPANY


PHONE: (330) 453-8187
HOTLINE: (800) 733-3377
FAX: (330) 453-1111
FAX HOTLINE: (800) 729-1112
EMAIL: mkmorse@mkmorse.com

WEBSITES
mkmorse.com
bladewizard.com

MAILING ADDRESS
P. O. BOX 8677
Canton, OH 44711 USA

SHIPPING ADDRESS
1101 – 11th ST SE
Canton, OH 44707 USA




CATALOGMKM 4/18

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