



# Steel Metal \*\* Time Saving Tools For Metal \*\* 2007 Product Catalog



















Steelmax is committed to growth by providing affordable high performance metal cutting tools for professionals and standing behind these tools with excellent customer service. We strive to offer metal cutting solutions that save our customers time and money, delivering quality results quickly and safely.

#### The Company

Through years of dedication to customer service, SteelMax® is proud to be recognized by our associates for providing high quality, "Time Saving Tools for Metal". Our dedication to customer service has set us above the competition. We are industry professionals with a drive to ensure every customer is satisfied throughout each product lifecycle. We continue to grow through repeat sales and an expanding product line that serves industrial demands.

#### Competitive Advantages

SteelMax has strategic business relationships with well-established firms in the US and abroad. Each brings to the table various expertise and capabilities that encourage the latest technologies in materials, process, manufacturing, and operational efficiencies. Further, new marketing and business operations streamline overhead and operational costs, which are immediately passed on to you, the customer.

#### Technology Capabilities

Regular consultation with our industrial suppliers, partners and customers keep us abreast of industry trends and technologies. Through our various alliances, we have the ability to offer custom and application specific modifications to any product we deliver through our design and manufacturing partners. Further, we have the ability to quickly move into any emerging market niche, and can react to market changes in the shortest time possible.

#### Customer Benefits

Customers receive the highest quality products at the lowest possible prices, yet with the assurance of a strong company to support them well into the future. This no compromise approach to customer satisfaction consistently builds customer loyalty and expands markets.

#### Summary

To become a SteelMax associate or customer, please contact us at:

Phone Toll Free 1-87STEELMAX 303. 690.9146 . Fax 303. 690.9172

Email: sales@steelmax.com

Contents	
Metal Cutting Saws	4-5
Metal Cutting Saw Blades	6-7
Portable Magnetic Drills	8-9
Annular Cutters	10-11
Cutter Sets	12
Industrial Arbors / Drill Chuck Adapter	13
Saws & Blades Q&A	14
Drills & Cutters Q&A	15
Ordering Information	16

#### Warranty Service

The SteelMax warranty is among the most comprehensive available for industrial power tools. When used as directed with reasonable care, your Steelmax product should give you years of improved productivity and cost savings. We stand behind our tools for twelve (12) months from the original date of purchase. With over 50 years of combined industry experience, our professional staff can help you with any questions or concerns you may have. Many of our products, such as our drilling machines, are easily field serviceable. And with most parts in stock at our Centennial, Colorado warehouse, we can provide quick turn around.

For detailed warranty information please call us directly or download the latest service and support information from the steelmax.com web site.

Steemax



# GUARANTEED to se

"I've fabricated everything from race cars to logging trucks for over 30 years. These saws and drills are among the best time saving machines I've ever owned."

Dale Paterson, Business Owner and Fabricator.



SteelMax toll-free at 1-87STEELMAX

# to save you TIME and MONEY..

- ·CUTS STEEL IN SECONDS
- **·COOL TO THE TOUCH**
- **·BURR FREE CUT**



Saves Time and Money.

Less than 6 seconds to cleanly cut 4" x 5/16" mild steel.

- 4 seconds to cut 2" x 3/16" square tubing.
- 4 seconds to cut 2" x 2 1/4" angle iron.
- 4 seconds to cut 2" tubing.
- 2 seconds to cut 1/2" rebar.
- •Increase Productivity No Milling or de-burring with near-surgical dry-cut technology.
- •Cuts a Variety of Metals, Plastic and Wood Bring your saw to the work-piece while cutting mild steel, stainless steel and aluminum as easy as it cuts plywood.
- •Cool-to-the-Touch No waiting for your workpiece to cool down. Just cut it and handle it.
- Precise Cutting With integrated laser sighting system. (models S7 S9)

#### SteelMax Industrial Metal Cutting Saws

\$7	<b>S9</b>	\$14
SMS7	SMS9	SMS14
2-3/8" Profile	3-1/4" Profile	4-3/4" Profile
3/8" Solid	1/2" Solid	1" Solid
14lbs.	20lbs.	64lbs.
7.25"	9″	14"
20mm	1"	1"
3500	2700	1450
Beveling/45deg.	Beveling/45deg.	Mitering/45deg.
120V/1500W	120V/1750W	120V/1750W
Yes	Yes	Two Position Vise
1Cover for metal	1 Cover for Metal	Chip Tray
1 Cover for Wood		
Pipe, plate, channel,	Pipe, plate, channel,	Pipe, plate, channel, conduit
grating, roof decking,	grating, roof decking,	angle iron, metal studs, rebar,
silo's, emergency rescue.	silo's, emergency rescue	tubing, etc.
	door posts.	
	SMS7 2-3/8" Profile 3/8" Solid 14lbs. 7.25" 20mm 3500 Beveling/45deg. 120V/1500W Yes 1Cover for metal 1 Cover for Wood Pipe, plate, channel, grating, roof decking,	SMS7  2-3/8" Profile  3/8" Solid  1/2" Solid  14lbs.  20lbs.  7.25"  9"  20mm  1"  3500  2700  Beveling/45deg.  120V/1500W  Yes  1Cover for metal  1 Cover for Wood  Pipe, plate, channel, grating, roof decking, silo's, emergency rescue,

SteelMax toll-free at 1-87STEELMAX

#### Our S14 Saw

# "Paid for itself in about one production day!"

#### A True Story!

The Company: Oakland Welding Industries, New Baltimore, Michigan.

**The Project:** A 6000 cut and weld angle iron fabrication job.

**The Challenge:** Significantly reduce fabrication time and improve on quality.

The Solution: SteelMax s14 Dry Cutting Metal Saw and Blades.

The Stats!

The saw paid for itself in about one production day by reducing a 100 man-hour band sawing job to a 33 hour SteelMax day.

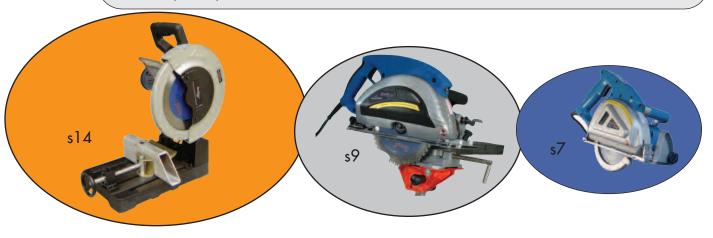
Pre-weld grinding was eliminated.

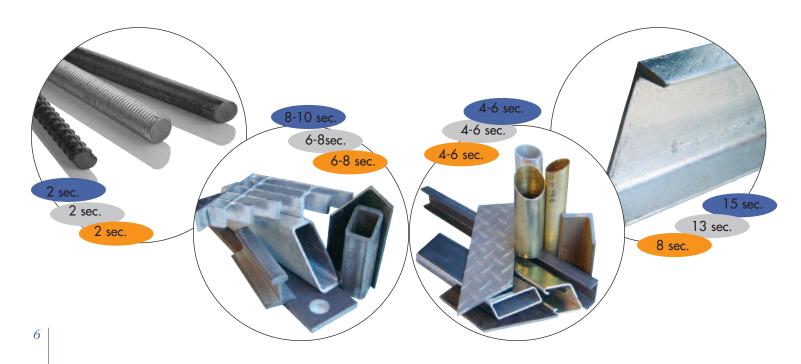
Floor space was available for new production.

1400 cuts per blade was typical on 1.5"x1.5" angle iron.

The SteelMax Saw paid for itself on the first day!

At \$55.00 per shop hour, the SteelMax saw saved about \$3600. in man-hours in one week!





SteelMax



are the finest blades available for the professional fabricator and metal-worker. You simply won't find a longer lasting, higher performing or cleaner cutting blade anywhere! Blades are available for clean and cool cutting of mild steel, stainless steel, aluminum and now *Wood!* They are designed specifically for the SteelMax® metal cutting saws. SteelMax blades are also available to fit competitor saws to increase their efficient cutting of mild steel, aluminum and stainless steel.

Aluminum Cutting Saw Blade

Thin Steel Cutting

Steelma

#### SteelMax Industrial Metal Cutting Saw Blades

BLADE DIA	PART NUMBER	TEETH	ARBOR	RPM (max)	APPLICATIONS
7.25"	RGMBL07-5	36T	20mm	3500	Mild Steel (less than 5/16")
7.25"	RGMBL07-5TS	68T	20mm	3500	Thin Mild Steel (less than 1/4")
7.25"	RGMBL07-5AL	54T	20mm	3500	Aluminum (up to 3/8")
7.25"	RGMBL07-5SS	48T	20mm	3500	Stainless Steel (less than 1/8")
7.25	RGMBL07-5WD	40T	20mm	3500	Wood Cutting (framing with wood cover)
9.0"	RGMBL09	48T	1.0″	2700	Mild Steel (less than 1/2")
9.0"	RGMBL09-TS"	80T	1.0″	2700	Thin Mild Steel (less than 1/4")
9.0"	RGMBL09-AL	80T	1.0″	2700	Aluminum (up to 3/8")
9.0"	RGMBL09-SS	80T	1.0"	2700	Stainless Steel (less than 1/8")
14.0"	RGMBL014	66T	1.0"	1450	Mild Steel (less than1")
14.0"	RGMBL014TS	90T	1.0″	1450	Thin Mild Steel (less than 1/4")
14.0"	RGMBL014AL	100T	1.0″	1450	Aluminum (up to 3/8")
14.0"	RGMBL014SS	90T	1.0"	1450	Stainless Steel (less than 1/4")





SteelMax® brand drills maintain rigidity and accuracy throughout the life of the drill. Our rail system eliminates the need to adjust or maintain traditional gibs. In addition to saving on maintenance, cutter life is increased by reducing movement at the cutter tips. When cutters last longer, you save money every day you use SteelMax!

#### SteelMax d

#### Small, Light and Powerful!

#### **FEATURES**

- Ultra compact 14-3/4" working height (with coolant bottle).
- •Adjustable cutter guard with built in chip breaker.
- Through spindle coolant system with removable reservoir.
- Little maintenance with no gib adjustment and extreme accuracy.
- •Fewer parts which results in less run-out.
- Lightweight only 23 pounds.
- Smart magnet circuitry recognizes magnetic hold.
- Spring slug ejecting arbor system.
- Magnet is 1/3 smaller, lighter and yet stronger.
- Magnet uses 50% power when motor is not under load.
- Advanced motor for easy fieldservice.
- Hidden motor cable for reduced maintenance.
- All aluminum parts are heat treated for rigidity.

#### SteelMax d2

#### Versatile, Light and Powerful!

#### **FEATURES**

- Two-speed motor and Mt2 arbor can accept optional 1/2" Drill Chuck for use with twist drills or annular cutters.
- •Ultra compact 18" working height (with coolant bottle).
- Adjustable cutter guard with built in chip breaker.
- Through spindle coolant system with removable reservoir.
- Little maintenance with no gib adjustment and extreme accuracy.
- Fewer parts which results in less run-out.
- Lightweight only 37 pounds.
- ·Smart magnet circuitry recognizes magnetic hold.
- Spring slug ejecting arbor system.
- Magnet is 1/3 smaller, lighter and yet stronger.
- Magnet uses 50% power when motor is not under load.
- Advanced motor for easy field service.
- Hidden motor cable for reduced maintenance.
- All aluminum parts are heat treated for rigidity.

The d2 drill is the first drill in the SteelMax line that lets you drill with twist drill bits\* or our premium m2Al annular cutters.

(optional 2MT 1/2" Drill Chuck adapter required for twist drill use)



#### **m2AL** ANNULAR CUTTERS

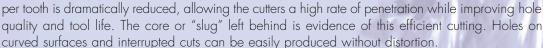
The only Cutters

### GUARANTEED

to give you the

## Lowest Cost Per-Hole

SteelMax® **m2fl** cutters feature characteristics that provide the wear characteristics of cobalt with the cost advantages of high-speed steel. Because of the durable composition of the M2AL metallurgy, our SteelMax cutters extend this performance advantage even further. With multiple cutting edges and a center-free design, SteelMax cutters use less horsepower and torque by only cutting the perifery of the hole. A burr-free reamed quality hole is typical in an operation that is about four times faster than costly pilot holes and step drilling. Chip load



What is m2NL? The composition of "M2AL" has an increase in the percentage of both carbon and approximately 1% aluminum. The other compositions are similar to M2. With the increase of carbon and aluminum, the hardness after heat treat can reach HRC68 (Rockwell). M2AL cutters are much more wear-resistant than M2. Because of this extreme hardness, the process of turning,

milling and grinding requires special grinding wheels and exacting tolerances.

#### SteelMax Advantages:

- Save time and money by eliminating costly pilot holes and step drilling.
- Drill holes 3 times faster than twist
- Drill on curved surfaces such as pipe
- Overlap cuts on existing holes.
- Produce reamed quality burr-free holes.
- Reduce machine size and horsepower
- Resharpenable cutting edges.
- Replaces brand X cutters.

In manufacturing, the mineral "cobalt" is often very poor in quality and consistency. M2AL was developed to address these inconsistencies and has demonstrated outstanding performance. An additional advantage is the performance and wear characteristics of cobalt without the brittleness at the higher Rockwell numbers.

Aside from the above durability and edge holding features, M2AL cutters have the following:

- The hardness grade varies from the cutting edges to the shank, with 68HRC at the tip and reducing to 55HRC on the shank. This prevents breakage at the highest stress points while improving tip integrity and performance.
- Unique two cut geometry, which cuts smoother with less vibration.
- Unique steps on the lands, which reduces friction and drill load.

#### SteelMax® m2AL ANNULAR CUTTERS

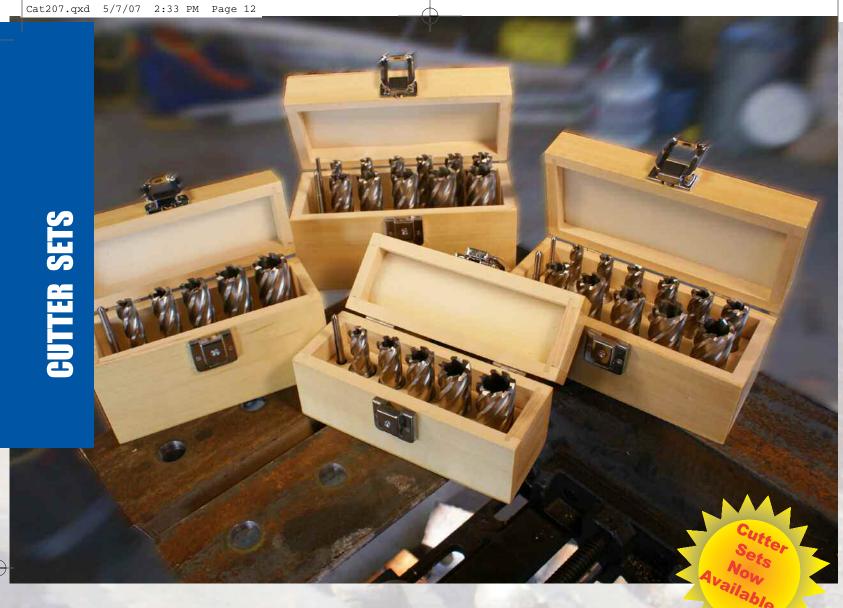
Cutter Dia.	1" D.O.C.	2" D.O.C.
(inch)		
7/16	SM4375	SM437L
1/2	SM5000	SM500L
9/16	SM5625	SM562L
5/8	SM6250	SM625L
11/16	SM6875	SM687L
3/4	SM7500	SM750L
13/16	SM8125	SM812L
7/8	SM8750	SM875L
15/16	SM9375	SM937L
1	SM1000	SM100L
1-1/16	SM1062	SM106L
1-1/8	SM1125	SM112L
1-3/16	SM1187	SM118L
1-1/4	SM1250	SM125L
1-5/16	SM1312	SM131L
1-3/8	SM1375	SM137L
1-7/16	SM1437	SM143L
1-1/2	SM1500	SM150L
1-9/16	SM1562	SM156L
1-5/8	SM1625	SM162L
1-11/16	SM1687	SM168L
1-3/4	SM1750	SM175L
1-13/16	SM1812	SM181L
1-7/8	SM1875	SM187L
1-15/16	SM1937	SM193L
2	SM2000	SM200L
2-1/16	SM2062	SM206L
2-1/8	SM2125	SM212L
2-3/16	SM2187	SM218L
2-1/4	SM2250	SM225L
2-5/16	SM2312	SM231L
2-3/8	SM2375	SM237L
1" Center pin for	SM4375	PP0001
1" Center pin for	all 1" DOC cutters except SM437.	5 PP0002
2" Center pin for	SM437L	PP0003
2" Center pin for	all 2" DOC cutters except SM4371	PP0004



# SteelMax® Metric m2Al CUTTERS

Cutter Dia	. 1" D.O.C.	2" D.O.C.
(milimeters)		
14mm	SM5512	SM551L
15mm	SM5906	SM590L
16mm	SM6299	SM629L
17mm	SM6693	SM669L
18mm	SM7087	SM708L
19mm	SM7480	SM748L
20mm	SM7874	SM787L
21mm	SM8268	SM826L
22mm	SM8661	SM866L
23mm	SM9055	SM905L
24mm	SM9449	SM944L
25mm	SM9843	SM984L
26mm	SM1023	SM102L
28mm	SM1102	SM110L
29mm	SM1141	SM114L
31mm	SM1220	SM122L

Always use SteelMax coolant to extend cutter life.



SteelMax® brand cutters are now available in four convienient set configurations. These sets are delivered in sturdy wooden display cases. The cases protect the cutters and let you see your cutter assortment at a glance. Choose sets of 5 or 11 cutters in 1" or 2" length.

SET #SMRC021 1" depth cut, 3/4" shank			
CUTTER DIAMETER	DECIMAL EQUIVALENT	PART#	
9/16"	.5625	SM5625	
11/16"	.6875	SM6875	
13/16"	.8125	SM8125	
15/16"	.9375	SM9375	
1 1 /1 / 11	1 0/0	C1410/0	

1", pilot 9/16"-1-1/16" PP0002

RC02

Cutter case

SET #SMRCO22 2" depth cut, 3/4" shank				
CUTTER DIAMETER	DECIMAL EQUIVALENT	PART#		
9/16"	.5625	SM562L		
11/16"	.6875	SM687L		
13/16"	.8125	SM812L		
15/16"	.9375	SM937L		
1-1/16"	1.062	SM106L		
Cutter case RC02				
2", pilot 9/16"-1-1/16" PP0004				

	DECIMAL	
DIAMETER	EQUIVALENT	PART#
7/16"	.4375	SM4375
1/2"	.5000	SM5000
9/16"	.5625	SM5625
5/8"	.6250	SM6250
11/16"	.6875	SM6875
3/4"	.7500	SM7500
13/16"	.8125	SM8125
7/8"	.8750	SM8750
15/16"	.9375	SM9375
1"	1.000	SM1000
1-1/16"	1.062	SM1062
1", pilot 7/16"		PP0001
1", pilot 9/16"-1-1/16"		PP0002
Cutter Case	9	RC04

SET #SMRC042 2" depth cut, 3/4" shank				
CUTTER Diameter	DECIMAL EQUIVALENT	PART#		
7/16"	.4375	SM437L		
1/2"	.5000	SM500L		
9/16"	.5625	SM562L		
5/8"	.6250	SM625L		
11/16"	.6875	SM687L		
3/4"	.7500	SM750L		
13/16"	.8125	SM812L		
7/8"	.8750	SM875L		
15/16"	.9375	SM937L		
1"	1.000	SM100L		
1-1/16"	1.062	SM106L		
2", pilot 7/16"-1/2" PP0003				
2", pilot 9/	16"-1-1/16"	PP0004		
Cutter Case		RC04		

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Twist Drills...
You Can
Have Both!



Need to use *twist drills* with your d2 drill? Need to use annular cutters with your CNC or Bridgeport? With our optional industrial arbors and 2MT-1/2"Drill Chuck now you can! SteelMax industrial arbors let you easily adapt our premium m2AL cutters to a variety of machinery, including CNC, lathe's, stationary drill presses and similar equipment. With our integrated coolant collar, cutter performance and cutter life is assured!

Need twist drill capability in a magnetic drill? The d2 is the first drill in the SteelMax line that lets you drill with twist drill bits\* or our premium **m2fl** annular cutters. (optional 2MT 1/2" Drill Chuck adapter required for twist drill use)

For Most drilling applications, choose our **SteelMax® m2fl** cutters.

They'll always outperform twist drilling for any hole over 7/16". However, if you need to drill diameters less than 7/16 or blind holes, our 1/2" Drill Chuck option is the right solution for you.

#### INDUSTRIAL ARBORS

DESCRIPTION	PART NUMBER
2MT 1/2" Drill Chuck	SM2MTJ
2MT 3/4"	SM2MT
3MT 3/4"	SM3MT
R8 3/4"	SMR8

#### SteelMax Metal Cutting Saws & Blades: Q&A

1. How are the SteelMax saws able to cut through metal so quickly and cleanly?

Powerful motors, hardened gears, and slower rotations, along with our superior carbide tipped blades.

2. What is special about the SteelMax blades?

We use only the highest quality tungsten carbide from Germany in our tips that are brazed onto a special grade of steel. We make blades for different applications and materials with all saws ready for use with a standard mild steel cutting blade installed. Other blades offered include Aluminum cutting blades, Stainless Steel cutting blades, Thin Steel cutting blades, and a new wood cutting blade for the S7.

3. How long will the blades last?

There are too many variables to give an absolute answer as there are a wide variety of materials and all users are different, therefore we can not warranty blade life. We can confidently state that we have thousands of satisfied customers that regularly reorder our products as they save money through efficiency. We still find referral as our greatest source of new business.

4. What limitations are recommended for each of the saws?

The S7 can cut mild steel up to 5/16" thick with a depth of cut of 2.25".

The S9 can cut mild steel up to 1/2" thick with a depth of cut of 3.25".

The S14 can cut mild steel up to 1" thick with a capacity of 4.75" OD.

5. What are the best applications for the SteelMax saws?

The saws are designed for cutting profiles: i.e., angles, channel, box tubing, square tubing, pipe, round tubing and small solids.

6. Who can best benefit from using the SteelMax saws?

These are high performance tools for professionals. We currently sell to: the military; fire & rescue personnel; welders; fabricators; plumbers; carpenters; roofers; farmers; maintenance crews; manufacturers; anyone that has to cut mild steel, aluminum, stainless steel, or sheet metal.

7. Why use the SteelMax saws?

These tools are portable, powerful, light-weight, affordable and efficient. Our saws go to the job and get the job done. It's all about performance and getting the job done right, quickly, saving time and, ultimately, money. We guarantee this.

8. What if I have a problem?

All of our saws are manufactured in ISO: 9001 certified plants, are UL approved, and under normal operating conditions are guaranteed against defects in workmanship and materials for 1 year. If necessary, most repairs are fairly simple and we stock a full range of replacement parts that are easily identified in the owner's manual. Our dedicated customer service personnel can help troubleshoot most problems or otherwise advise on warranty issues. All saws are sold with a set of replacement brushes, and safety goggles.

9. Where can I buy SteelMax products?

For a list of authorized dealers, email inquiries to sales@steelmax.com or call our toll free number at:

#### 1-87STEELMAX

#### SteelMax Drills & Cutters: Q&A

1. What unique SteelMax drill features will save me money?

SteelMax® brand drills are the most advanced, low cost high performance drills available today. Light weight, energy saving, low maintenance and safety first are just some of the stand-out features. Our drills actually help extend cutter life by eliminating runout through our unique rail system. This rail system eliminates 14 service parts while making the drill stiffer and totally eliminates gib maintenance.

2. Why use the SteelMax brand drills and Cutters?

The drill and cutters will cut holes that are nearly reamed quality and burr free in a "fraction of the time" of conventional drill bits. Time saving is typically 3-4 times of step drilling. SteelMax cutters can also be re-sharpened many times, which further lowers your cost per hole. Our unique metallurgy provides a Rockwell hardness of 68 at tip, comparable to cobalt, but less brittle, with a shaft hardness of 55HRC. This stepped hardness provides greater durability.

3. What range of holes can SteelMax drills cut?

The d1 drill is designed to use SteelMax annular cutters to cut holes from 7/16" to 1-1/2" diameter through 2" depth of material in one pass. The d2 drill is designed to use SteelMax annular cutters to cut holes from 7/16" to 2 1/16"" diameter through 2" depth of material in one pass. The d2 can also use twist drills with the use of our 2MT 1/2" twist drill chuck.

- 4. On a conventional magnetic drill, what is the largest hole that a standard drill bit will drill? Some magnetic drills, which can weigh as much as 90 lbs., can only drill holes up to 1", but not in a one pass operation. A pilot hole and numerous step drilling operations must be done before you have a finished 1" hole.
- 5. What is the minimum thickness of steel that should be used to cut holes?

  Because steel is made of many different alloys, there is no absolute thickness we recommend. However, the "Smart" magnet will assure that the operator is safe when cutting holes. We recommend a work piece thickness of 3/8" or greater. For thinner material drilling, clamp a piece of steel directly under the magnet for additional holding power.
- 6. How does the magnet in the base of the drill function?

The smart magnet will not let the motor come on if there is insufficient magnetic holding power. In addition, if the magnet is left in the "On" position with the drill motor "Off," only 50% of the magnet strength is used. 100% magnetic hold is active only when the motor is running. This energy saving feature will prevent the magnet from overheating.

7. Can these drills make "blind" or dead holes?

The d2 drill can drill blind holes with the use of our optional 2MT 1/2" drill chuck.

8. What is the most common application for this drill?

Any welder or steel fabricator that needs through holes 7/16" and larger. Structural steel components that need to be bolted together are a prime application for the drill.

9. Can you use the drill in the horizontal position?

Yes. However, since our coolant system is gravity fed, you must use an external source of lubrication such as an aerosol or edge cream.

10. Do the d1 and d2 drills need to be returned to a service center when repair or servicing is needed? No. Both the d1 and d2 drill are engineered to be serviced in the field due to design of modular components that include the motor, control panels, gear housing, and magnet. Spare motor brushes are included with each machine.



#### ORDERING AND CUSTOMER SERVICE

Please consult SteelMax factory trained sales and service specialists toll-free at 1-87STEELMAX or 303.690.9146

#### VISIT US ON THE WEB

To get the latest product information and updates, visit SteelMax on the world wide web at **steelmax.com**. You'll find the latest information on all our machines and accessories, as well as current technical references, literature and manuals.

#### Distributed by:

Phil Shames

Phone: 905-667-4104 Fax: 905-667-4105

pshames@lawsonproducts.com

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