# **Steel Fabrication Solutions**

# Steemax.

# The tools of innovation.





## **Tools for the Steel Fabricator**

Steelmax offers a wide range of tools and equipment tailored for the Steel Fabricator and MRO. Our unique, high quality tools reduce costs and increase productivity. They are designed and engineered for long-term, heavy industrial use and built to the highest quality standards of ISO 9001.

The Steelmax product line includes:

- Portable Magnetic Drills and Annular Cutters
- Hydraulic Punches
- Metal Cutting Saws and Blades
- Weld Preparation/Beveling Machines for Plate and Pipe
- Lifting Magnets
- Welding/Cutting Automation Solutions

Our qualified and experienced team is available to help our customers solve all of their steel fabrication challenges. Steelmax provides its business partners with innovative products, custom solutions, excellent reliability, and industry-leading after sales services.

Please contact us to help with your fabrication and welding projects to determine the right tools for your application.



15335 E. Fremont Drive, Centennial, CO 80112121 Southpointe Drive, Bridgeville, PA 15017

877-833-5629 • Fax: 303-690-9172 sales@Steelmax.com

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2020 Catalog Version I

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# PORTABLE DRILLING MACHINE FROM STEELMAX®

# **D1 PORTABLE MAGNETIC DRILL** ULTRA COMPACT DRILL COMBINES PORTABILITY AND PERFORMANCE

The **D1** is an ultra-compact magnetic drilling machine with maximum capacity of 1-3/8" (36 mm) diameter in 2" (51 mm) thick material. The unit's ultra-light weight of 22 lbs. (10 kg) is the lowest in its class. The maintenance-free rail guide system minimizes run-out, maintains accuracy and reduces cutter breakage.

The **D1** is equipped with an electromagnetic Energy Saving Base (ESB) which uses only 50% of the power when the motor is not under load, dramatically increasing the operating life of the electromagnet, and a Magnetic Field Shape Control (MFSC) system which provides maximum holding power on thin material. Safe Magnet<sup>¬¬</sup> circuitry assures adequate adhesive force for safe operation.

#### FEATURES

- 1-3/8" (36 mm) diameter x 2" (51 mm) depth of cut
- Ultra-compact and light weight: 14-3/4" working height (with coolant bottle) and only 22 pounds
- Adjustable cutter guard with built-in chip breaker
- Through spindle coolant system with removable reservoir
- Maintenance free rail guide system for long life, minimal run-out and extreme accuracy
- Safe Magnet<sup>™</sup> circuitry recognizes magnetic holding power
- Automatic slug ejection system
- Magnet is 1/3 smaller, lighter and stronger than competing models
- Magnet uses only 50% power when motor is not under load
- Designed for easy field service and repair
- All aluminum parts are heat treated for rigidity







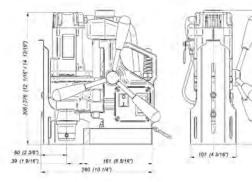


#### Standard shipping set:

- Magnetic base drilling machine
- Metal shipping box
- Swarf shield/Cutter guard
- Coolant bottle assembly
- Safety chain with snap hook
- Allen wrench
- Instruction manual
- Standard shipping weight 36 lbs (16.7 kg)



Tool holder	3/4" (19 mm) Weldon		
Annular cutter (Core drill) Ø	max 1-3/8" (36 mm)		
Countersinking Ø	1-9/16" ma	x (40 mm)	
Stroke	2 -3/4" (70 mm)		
Max depth of cut	2" (51 mm)		
Voltage	115V/60Hz	or 230V/50Hz	
Power consumption [W]	1000		
Motor power	920 W 1.2 HP		
Spindle speed (under load)	350 rpm		
Overload protection	yes – 115V/60Hz yes – 230V/50Hz		
MPAC (Magnetic Power Adhesion Control)	yes		
MFSC (Magnetic Field Shape Control)	yes		
ESB (Energy Saving Base)	yes		
	Dead lift	Drill point breakaway	
Magnet – on I" (25 mm) plate	2135 lbs (968 kg)	859 lbs (389 kg)	
Magnet base dimensions	3-1/8 x 6-5/16 x 1-7/16" 80 x 160 x 36.5 mm		
Minimum workpiece thickness	I/4" (6 mm)		
Weight	22 lbs (10 k	g)	
Part number	SM-DI (115V/60Hz) SM-DI-230 (230V/50Hz)		







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# SEMI-AUTOMATIC DRILLING MACHINE FROM STEELMAX®

## **D1 AUTO**

## ADVANCED SEMI-AUTOMATIC DRILLING MACHINE

The **D1** Auto from Steelmax is an advanced semi-automatic drilling machine that is the ideal solution for efficiently drilling large numbers of holes in plates, girders, and other steel fabrication applications. With a maximum 1-3/8" diameter and 2" depth of cut, the D1 Auto covers a wide range of drilling needs in a compact, lightweight machine.

#### **FEATURES**:

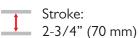
- 1-3/8" (36 mm) diameter x 2" (51 mm) depth of cut
- Compact, rigid design that weighs just 30 lbs. (13.5 kg)
- Optimal combination of spindle speed and torque produces industry leading cycle times with TCT and HSS cutters
- Safe magnet control systems for excellent performance and operator safety
- Dual rail guide system provides extraordinary stiffness and maintenance free operation
- High efficiency magnetic base provides superior holding power on plate as thin as 1/4" (6mm)
- Integrated cutter guard and large coolant tank

I-3/8" (36 mm) Weight: 30 lbs. (13.5kg)

Max Hole Size:



Depth of cut: 2" (51 mm)



Minimum work piece thickness: 1/4" (6 mm)



#### **EXCELLENT PERFORMANCE & PRODUCTIVITY**

- Max drilling capacity of 1-3/8" (36 mm) diameter with 2" (51 mm) depth of cut
- Auto-feed mechanism is activated by pushing the handles in.
- Feed control system reduces idle run time and enables smooth start of cutting
- Dynamic control systems adjust the feed speed proportionally to the cutting load maximizing cutting performance with both TCT and HSS cutters
- Auto-feed control stops the machine when drilling is complete

#### SAFETY

- Overload control stops both cutting and feeding motors immediately
- Magnetic Power Adhesion Control (MPAC) prevents drilling when the electromagnetic holding force is not sufficient. This protects both the machine and the operator from work in unsafe conditions

#### **USER-FRIENDLY**

- Ultra light weight only 30 lbs.
- Maintenance free dual rail system
- Uses standard 3/4" Weldon shank cutters
- Large coolant tank





D1 AUTO Teo	chnical Specifications
Voltage	I∼ II0–I20 V, 50–60 Hz, I∼ 220–240 V, 50–60 Hz
Total power	1000 W
Motor power	920 W
Cutter holder	3/4" Weldon (19 mm)
Max milling capacity	I-3/8" (36 mm)
Max depth of cut	2" (51 mm)
Electromagnetic base holding force (surface with the thickness of 1" (25 mm) and roughness $R_a = 1.25$ )	9500 N
Electromagnetic base dimensions	3.1''x 6.3''x 1.4'' (80 mm x 160 mm x 36.5 mm)
Slide stroke	2-3/4" (70 mm)
Spindle speed under load	350 rpm
Spindle speed without load	580 rpm
Minimum work piece thickness	1/4" (6 mm)
Weight	30 lbs (13.5 kg)



#### Standard shipping set:

- D1 AUTO
- Metal shipping box
- Handles
- Cooling system bottle
- Chip guard
- Safety strap
- 4 mm hex wrench
- Operator's Manual





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# LOW PROFILE MAG DRILL FROM STEELMAX<sup>®</sup>

## **D1** Low Profile

## LOW PROFILE ELECTRIC DRILL FOR RESTRICTED SPACE

The D1 Low Profile is an ultra-low-profile mag drill, that fits in the tightest of work spaces. It is a perfect solution for any applications in confined spaces, where typical mag drills are too large. A powerful motor and strong, electromagnetic base enable drilling of holes up to 1-3/8" (36 mm) diameter to a depth of up to 1-3/16" (30 mm).

The D1 Low Profile Mag Drill accepts both TCT and HSS cutters as well as twist drill bits with a standard 3/4" Weldon shank.

#### FEATURES

- Ultra low profile mag drill only 7" tall with electromagnetic base
- Light weight only 21 lbs (9.5 kg)
- 1-3/8" (36 mm) diameter x 1-3/16" (30 mm) depth of cut maximums with annular cutters
- Accepts Weldon Shank twist drill bits up to 3/4" diameter
- Over 1-1/2" stroke (39 mm)
- Integrated swarf guard
- · Convenient lifting handle for easy transportation

#### **STANDARD SET INCLUDES:**

- Drilling machine
- Plastic case
- Handle
- · Handle adapter
- Pilot pin
- Safety strap
- 4 mm hex wrench
- Operator's Manual





Core drill: max 1-3/8" (36 mm)

Twist drill: max 1/2" (12 mm) with Weldon Shank 3/4" (19mm)

8



Depth of cut:

up to 1-3/16"

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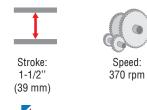
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CE





The DI Low Profile fits in the tightest spots







Motor Power: 920 W



Weight: 21 lbs (9.5 kg)

D1 Low Profile Technical Specifications			
Voltage	115V or 230V 50-60Hz		
Motor Power	920W		
Power Consumption	1000₩		
Motor Speed (Under Load)	350 RPM		
Tool Holder	3/4" Weldon Shank		
Minimum Material Thickness	I/4" (6 mm)		
Maximum Hole Size - Annular Cutter	I-3/8" (36 mm)		
Maximum Hole Size - Twist Bit	I/2" (I2 mm)		
Maximum Countersink	I-9/I6" (40 mm)		
Stroke	I-I/2" (39 mm)		
Maximum Depth of Cut	I-3/16" (30 mm) with TCT Cutters I3/16" (20 mm) with HSS Cutters*		
Magnetic Clamping Force	2,000 lbs (8900 N)		
Magnetic Base Dimensions	3-9/16" x 7-1/16" x 1-1/2" (90 x 180 x 38.5 mm)		
Machine Height	7" (175 mm)		
Machine Weight	21 lbs (9.5 Kg)		
Part Number	115V: SM-DI LP 230V: SM-DI LP-230		

\* Up to 1" (25 mm) when used with an optional long quill assembly (SM-ZSP-0521-04-00-00-0)





Compact design for height restricted areas. Detachable feed lever can be fixed from either side



Max milling capacity up to 1-3/8" (36 mm)

Easily work out of position



Lifting handle for easy transportation



Handy plastic case





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# **D1 MAG DRILLS FOR SPECIAL APPLICATIONS**



The swivel base magnetic drill has the ability to operate on convex (min. diameter 12") and concave surfaces (min diameter 40"). This drill can be used for drilling into pipes, tubes and vessels. It can also be used for creating nozzle openings. Four individual swivel magnets adjust to the surface, allowing the machine to work on uneven work areas. Every magnet is equipped with variable holding force features allowing easy machine positioning while the magnets are partially engaged. The magnets work without electricity making a great safety solution for your drilling needs.

## **D1-PM Permanent Mag**

Drill out of position without the worry of power loss with the D1-PM with Permanent Magnet. The D1-PM's neodymium rare earth magnets clamp to ferrous surfaces without the need for external electric power offering a safety solution few mag drills on the market can match. The switchable permanent magnet allows for partial engagement making placement over the hole location easy and precise



## **D1-TS for Thin Steel**

or not work at all.

	Technical Spe	cifications	-	
Model Number	D1-SM	D1-PM	D1-TS	
Motor Speed (under load)	350 rpm	350 rpm	350 rpm	
Motor Power	920W	920W	920W	
Voltage	115V 60Hz 230V 50Hz	115V 60Hz 230V 50Hz	115V 60Hz 230V 50Hz	
Power Consumption	1000W	1000W	1000W	
Overload Protection	Yes	Yes Yes Y		
Max Milling Cap.	1-7/16" (36 mm)	/16" (36 mm) 1-7/16" (36 mm)		
Max Countersinking Cap.	1-9/16" (40 mm) 1-9/16" (40 mm)		1-9/16" (40 mm)	
Stroke	2-3/4" (70 mm)	2-3/4" (70 mm)	2-3/4" (70 mm)	
Max Depth of Cut	1-3/8" (35 mm)	1-3/4" (45 mm)	2" (51 mm)	
Magnetic Holding Force	1346 lbs (612 kG)	1346 lbs (612 kG)	2019 lbs (918 kG)	
Magnetic Base Dimensions	243mm x 218 mm x 96 mm 9.57" x 8.58" x 3.78"	98 mm x 237 mm x 100 mm 3.86" x 9.33" x 3.87"	100 mm x 200 mm x 38 mm 3.94" x 7.87" x 1.5"	
Minimum Workpiece Thickness	1/4" (5 mm)	1/4" (5 mm)	1/8" (3 mm)	
Part Number	SM-D1-SM	SM-D1-PM	SM-D1-TS	

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## **D1-SM Swivel Magnet**



Another innovative D1 variant, the D1-TS for Thin Steel features an innovative magnet design which allows for optimal magnetic field distribution on very thin steel plates with comparable holding force to drills with standard magnets. This allows the drill to safely work on material down to 1/8" (3mm) where most other drills would be deemed unsafe



## PORTABLE DRILLING MACHINE FROM STEELMAX®

## **D1 PRO PORTABLE MAGNETIC DRILL**

## HIGH PRODUCTION DRILLING MACHINE FOR THE PROFESSIONAL **STEEL FABRICATOR**

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The Steelmax D1 PRO is an all-purpose drilling machine for the steel fabricator that demands dependable and versatile production tools. Lightweight and portable, this single-speed drill features a powerful 1020-watt motor capable of drilling with annular cutters up to 1-9/16" (40 mm) diameter holes through 2" (50 mm) thick material. The optional three jaw drill chuck can be used with solid, twist drills up to 5/8" (16 mm) diameter.

The D1 PRO is equipped with the most advanced electromagnetic technology. Using only 50% power when the motor is not under load, the Energy Saving Base (ESB) reduces excessive heat build-up and dramatically increases the operating life of the electromagnet. Our Magnetic Field Shape Control (MFSC) system provides maximum holding power on thin materials. The integrated Magnetic Power Adhesion Control Module (MPAC) detects the adhesive force of the electromagnetic base and prevents drill activation when there is insufficient adhesive power, protecting both the machine and the operator.

#### FEATURES

- Up to 1-9/16" diameter and 2" depth of cut
- Magnetic Power Adhesion Control (MPAC)
- Magnetic Field Shape Control (MFSC)
- Energy Saving Base (ESB)
- Comes complete with swarf shield and coolant bottle assembly





8" (16 mm)



Ø I-9/16"

#### Standard shipping set:

- Magnetic base drilling machine
- Metal shipping box
- 3/4" (19 mm) Weldon Arbor with cooling ring
- Swarf shield/Cutter guard with guideway
- Coolant bottle assembly
- Safety chain
- Set of tools
- Instruction manual
- Standard shipping weight -
- 44 lbs

**Optional Accessories:** SM-TLJ-0197-10-SM-DC-PRO40\*

\*Items necessary for use with twist drill bits.



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Tool holder3/4" (19 mm) VMilling cutter (Core drill) Ømax 1-9/16" (44Twist drill Ømax 5/8" (16 mCountersinking Ømax 1-9/16" (44Stroke4-7/8" (124 mmMax depth of cut2" (51 mm)Voltage110-120 V 50/2Power consumption [W]1140Motor power1020 W 1.4 HSpindle speed (under load)440 rpmMFSC (Magnetic Field Shape Control)yesESB (Energy Saving Base)yes	0 mm) nm) 0 mm) 1) 60 Hz or
Twist drill Ømax 5/8" (16 mCountersinking Ømax 1-9/16" (44Stroke4-7/8" (124 mmMax depth of cut2" (51 mm)Voltage110-120 V 50/220-240 V 50/220-240VMEXTURE<	50 Hz or
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(Magnetic Power Adhesion Control)yesMFSC (Magnetic Field Shape Control)yesESB (Energy Saving Base)yes	
(Magnetic Field Shape Control)yesESB (Energy Saving Base)yes	
Magnetic Clamping Force [N] 9800 (2200 lbs (25 mm, Ra=1.25)	)
Magnet base dimensions 3-5/16 × 6-5/8   (84 × 168 × 41.5)	
Minimum workpiece thickness I/4" (6 mm)	
Noise level above 85 dB	
Surrounding temperature 32°F to 104°F	(0°C to 40°C)
Length of power cord 9.8 ft (3.0 m)	
Weight 28 lbs (12.7 kg)	
Part numbers SM-DIPRO SM-DIPRO-2	

0-00-03-0*	Adapter/Arbor Weldon 19 x 1/2" - 20 UNF
k	Drilling Chuck 16-1/2" - 20 UNF



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## PORTABLE DRILLING MACHINE FROM STEELMAX®

## **D-250-x PORTABLE MAGNETIC DRILLING MACHINE**

## ANNULAR CUTTER DRILLING MACHINE

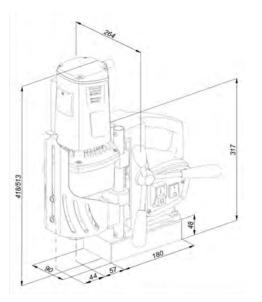
The D-250-X magnetic drill has a powerful 1600w motor which enables a cutting capacity up to 2-3/8" and a depth of cut up to 3'. Newly designed motor housing and magnet make this large capacity drill lighter then other competitive drills in the market. The maintenance free guide rail system helps reduce cutter breakage and gives optimal cutter life.

Optimized drilling speeds for both HSS and TCT annular cutters.

#### **FEATURES**

- 1600 W powerful motor with heavy duty 2-speed gearbox
- Maintenance free rail guide system using • dual guide bars
- Suitable for use with TCT or HSS cutters •
- Rigid design extends tool life .
- Drilling with twist drills featuring Weldon ٠ shank
- Innovative smart magnet with weight reduc-٠ tion
- Swarf shield/Cutter guard ٠
- Coolant bottle assembly .

#### **Dimensions**





#### Standard shipping set:

- Magnetic base drilling machine
- Plastic shipping box
- Coolant bottle assembly & Cooling system
- Safety strap
- Handle (3pcs)
- Instruction manual
- 4 mm hex wrench with a handle

D 250-X Technical Specifications			
Motor Speeds (under load)	160 rpm (gear1) 390 rpm (gear 2)		
Power	1600 W		
Weight	37 lbs (17 kg)		
Max Hole Size- Annular Cutter	2-3/8" (65 mm)		
Stroke	3-3/4" (95 mm)		
Max Depth of Cut	3" (75 mm)		
Voltago	115 <b>V, 50-60Hz</b>		
Voltage	230 <b>V, 50-60 Hz</b>		
Magnetic clamping force (surface with thickness of 25 mm and roughness Ra=1.25	2474 ft lbs. (I I 000 N)		
	3-9/ 6"×7"× -7/8"		
Magnet Base Dimensions	90 mm x 180 mmx 48 mm		
Min. Workplace Thickness	5/16" (8 mm)		
Tool Holder	3/4" (19 mm) Weldon		
Part Number 115 <b>V, 50-60 Hz</b>	SM-D-250X		
Part Number 230V, 50-60 Hz	SM-D-250X-230		



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D250X 03/2020

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## DRILLING & TAPPING MACHINE FROM STEELMAX®

## **D-200-XT UNIVERSAL TAPPING & DRILLING MACHINE** PURPOSE-DESIGNED PRODUCTION DRILLING MACHINE

The D-200-XT drilling machine is suitable for hole cutting and tapping applications.

Powerful 1600 W variable speed motor enables annular cutter capacity up to  $50 \text{ mm} (2^{\circ})$  and drilling capacity up to  $23 \text{ mm} (7/8^{\circ})$ . Forward & reverse functions allow tapping up to 3/4" with Steelmax's new tapping chuck and collet system. Two speed gearbox with continuous speed adjustment allows to set the optimal speed depending on diameter, steel grade or tool quality.

Intelligent speed control system maintains constant motor speed regardless of changing

loads.

Innovative 360-degree LED indicator facilitates

#### FEATURES

- 1600 W powerful motor with heavy duty 2-speed gearbox
- Intelligent speed control system maintains stable speed regardless of load changes
- Tapping of through and blind holes
- Suitable for use with TCT or HSS cutters
- Electronic clutch and speed control
- Overload & Overheat protection
- Rigid design extends tool life ٠
- Tilt sensor stops motor in case of machine break away
- 360- degree visual monitoring system indicatescurrent condition of the drill and gives safety and diagnostic information e.g. worn brushes
- Innovative smart magnet with reduced weight
- Intuitive control panel at top of the drill
- Large coolant reservoir





The tools of innovation.





Counterclockwise (CCW) rotation User-friendly control of tapping tool release

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#### **Standard shipping set:**

- Magnetic drilling machine
- Metal shipping box
- MT2 Arbor with 3/4" (19 mm) Weldon Bore – with cooling

- ring
- Swarf shield/Cutter guard • Coolant bottle assembly
- Safety chain
- Set of tools with wedge
- Instruction manual
- Standard shipping weight 56

#### lbs 5 oz (26.1 kg)

- Protective spring for cooling hose
- MT2 drift
- 6 mm hex wrench
- 5 mm hex wrench with a handle
- 2.5 mm hex wrench
- 8 mm combination wrench
- Tool can
- Locking connector
- (only in 115 V version)

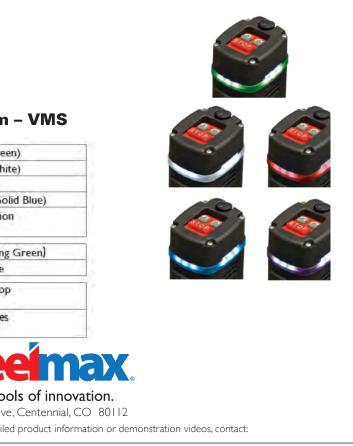
#### 360-degree Visual Monitoring System – VMS

	Ready To Operate (Solid Green)
5 (	Normal Operation (Solid White)
Drill	Motor Overheat (Solid Red)
Operational	Emergency Stop/Overload (Solid Blue)
Status	Emergency Stop/Low Adhesion (Solid Violet)
(i) Safety	Inadequate Adhesion (Flashing Green)
A Information	Near Overload (Flashing Blue
Diagnostics	Emergency Stop/ Voltage Drop (Red Flashes to Blue)
	Emergency Stop/ Worn Brushes (Red changes to Green)
	Steel
	<b>The tools of i</b> 15335 E. Freemont Drive, Center
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D 200-XT	Technical Specifications
Motor Speeds (under load)	160-250 rpm (gear1) 390-580 rpm (gear 2)
Power	1600 W
Weight	37 lbs (17 kg)
Max Hole Size-Annular Cutter	2" (50mm)
Max Drilling Capacity	7/ 8" (23 mm)
Max Depth of Cut	3" (75 mm)
Max Tap Size	M20 (3/ 4")
Stroke	7-1/2" (190 mm)
Voltage	115 V, 50-60Hz 230V, 50-60 Hz
Magnetic clamping force (surface with thickness of 25 mm and roughness Ra=1.25	2474 ft lbs (11000 N)
Magnet Base Dimensions	3-9/ 16" x 7" x 1-7/ 8" 90 mm x 180 mm x 48 mm
Min. Workplace Thickness	5/ 16" (8 mm)
Spindle	MT2
Tool Holder	3/ 4" (19 mm) Weldon
Part Number 115V, 50-60 Hz	SM-D-200-XT
Part Number 230V, 50-60 Hz	SM-D-200-XT-230



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## DRILLING & TAPPING MACHINE FROM STEELMAX®

## **D-300-XT TAPPING & DRILLING MACHINE**

## VARIABLE SPEED MAGNETIC DRILLING MACHINE

• The D-300-XT is a variable speed drilling machine designed to drill holes with diameters of up to 2-3/4" (70mm) by using annular cutters. The machine can also drill holes with diameters of up to 1"(25mm) by using twist drill bits. The D-300-XT can change the direction of rotation. This allows tapping of pre-drilled holes by using a tap chuck. The electromagnetic base clamps the machine to ferromagnetic surfaces, making sure that the operator is safe and the machine works correctly. A safety strap protects the machine from falling in case of a clamping loss. Accessories allow you to drill in pipes and cut threads.

#### FEATURES

- 360- degree visual monitoring system indicates cur-. rent condition of the drill and gives safety and diagnostic information, e.g. worn brushes
- 1600 W motor .
- Overload & Overheat protection .
- Tapping of through and blind holes with intelligent . load control
- Drilling with both TCT & HSS cutters and twist .
- drill bits from small up to large diameters ٠
- Full electronic motor control .
- Electronic clutch (faster than mechanical) .
- Rigid design extends tool life
- Innovative smart magnet with reduced weight
- Intuitive control panel at top of the drill .
- Large coolant reservoir



Intuitive control panel at top of the drill







Counterclockwise (CCW) rotation User-friendly control of tapping tool release

#### **Standard shipping set:**

- Magnetic drilling machine
- Plastic shipping box
- MT3 Arbor with 3/4" (19 mm)
- Weldon tool holder
- Swarf shield/Cutter guard
- Coolant bottle assembly
- Safety strap
- Set of tools with wedge
- Instruction manual
- Protective spring for cooling hose
- MT3 drift
- 4 mm hex wrench
- 5 mm hex wrench with a handle
- 2.5 mm hex wrench
- 8 mm combination wrench
- Tool can

D200XT 03/2020

- Locking connector
- (only in 115 V version)

- Max Drilli Max Str Max Dep Vo Magnetic clamping the thickness of 25 Ra=
  - Magnet bas Min. Workp
- Sp Tool

## **360-degree Visual Monitoring System – VMS**

	877-833-5629	STEELMAX.COM	sales@S
	For or	<b>The tools o</b> 15335 E. Freemont Drive, Ce rdering and customer service, or to request detai	ntennial, CO
		Stee	ma
		Emergency Stop/ Worn Brushes (Red changes to Green)	1
	Diagnostics	Emergency Stop/ Voltage Drop (Red Flashes to Blue)	
~	Information	Near Overload (Flashing Blue	
<b>(i)</b>	Safety	Inadequate Adhesion (Flashing Gre	en)
	Status	Emergency Stop/Low Adhesion (Solid Violet)	
	Operational	Emergency Stop/Overload (Solid Bl	ue)
1	Drill	Motor Overheat (Solid Red)	
151		Normal Operation (Solid White)	
		Ready To Operate (Solid Green)	+

877-833-5629

D-300-XT Technical Specifications					
Motor Speeds (under load)	120-190 rpm (gear1) 290-450 rpm (gear 2)				
Motor Power	1600 W				
Weight	40 lbs (18 kg)				
Max Milling Capacity	40 lbs (18 kg)   2-3/ 4" (70 mm)   1" (25 mm)   7/ 8" (M20)   7.5" (190 mm)   2-15/ 16" (75 mm)   115 V, 50-60Hz				
Max Drilling Capacity	I" (25 mm)				
Max Tap Size	7/ 8" (M20)				
Stroke	7.5" (190 mm)				
Max Depth of Cut					
Voltage	115 V, 50-60Hz 230 V, 50-60 Hz				
gnetic clamping force (surface with thickness of 25 mm and roughness Ra=1.25	2472 ft lbs (1121kG )				
Magnet base dimensions	3.6" x 7.1" x 2.1" 92 mm x 180 mm x 54 mm				
Min. Workplace Thickness	0.3" (8 mm)				
Spindle	MT3				
Tool Holder	3/ 4" (19 mm) Weldon				
Part Number 115V, 50-60 Hz	SM-D-300XT				
Part Number 230V, 50-60 Hz	SM-D-300XT-230				





#### ion.

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## TAPPING & DRILLING MACHINE FROM STEELMAX<sup>®</sup>

## **D-400-XT INDUSTRIAL TAPPING & DRILLING MACHINE**

## Multi-Purpose HEAVY DUTY MAGNETIC DRILLING MACHINE

The D-400-XT drilling machine is suitable for many industrial hole making and tapping applications. Powerful 2300 W, variable speed motor enables cutting capacity up to 4" (100 mm) and drilling capacity up to 1-1/4" (31.75 mm). Forward and reverse functions allow tapping of pre-drilled holes up to 1-1/4" (M30) by using the quick change tapping system from Steelmax.

4-speed gear and continuous speed adjustment help to set the optimal speed depending on size of diameter, material grade and tool in use. Intelligent speed control system maintains the constant speed regardless of the changing load and increases tool life. Innovative 360-degree visual monitoring system facilitates machine operation and in creases work safety.

#### **FEATURES**

- 360- degree visual monitoring system indicates current condition of the drill and gives safety and diagnostic information, e.g. worn brushes
- · Most powerful motor in its class (among MT3 drills)
- Overload & Overheat protection
- · 4-Speed gear with continuous speed adjustment
- Intelligent speed control system maintains stable speed regardless of load changes
- Tapping of through and blind holes with intelligent load control
- Drilling with both TCT & HSS cutters and twist drill bits from small through large diameters
- Full electronic motor control
- Electronic clutch and speed control
- Rigid design extends tool life
- Tilt sensor (gyroscopic) stops motor in case of machine break away
- · Innovative smart magnet with reduced weight
- Intuitive control panel at top of the drill
- Large coolant reservoir







Counterclockwise (CCW) rotation User-friendly control of tapping tool release

D-400-XT Technical Specifications					
Motor Speeds (under load)	75-110 rpm (gear1) 135-200 rpm (gear 2) 220-320 rpm (gear 3) 390-570 rpm (gear 4)				
Motor Power	2300 W				
Weight	55 lbs (25 kg)				
Max Milling Capacity	4" (100 mm)				
Max Drilling Capacity	I-I/4" (31.75 mm)				
Max Tap Size	I-I/4" (M30)				
Stroke	9" (225 mm)				
Max Depth of Cut	4" (100 mm)				
Voltage	115 V, 50-60Hz 230 V, 50-60 Hz				
Magnetic clamping force (surface with the thickness of 25 mm and roughness Ra=1.25	4045 ft lbs (18000 N)				
Magnet base dimensions	4.3" x 8.7" x 2" I I0 mm x 220 mm x 50 mm				
Min. Workplace Thickness	3/8" (10 mm)				
Spindle	MT3				
Tool Holder	3/4" (19 mm) or 1 1/4" (32 mm) Weldon				
Part Number 115V, 50-60 Hz	SM-D-400XT				
Part Number 230V, 50-60 Hz	SM-D-400XT-230				

## **360-degree Visual Monitoring System – VMS**



-	Ready To Operate (Solid Green)		
	Normal Operation (Solid White)		
Drill	Motor Overheat (Solid Red)		
Operational	Emergency Stop/Overload (Solid Blue)		
Status	Emergency Stop/Low Adhesion (Solid Violet)		
Safety	Inadequate Adhesion (Flashing Green)		
S Information	Near Overload (Flashing Blue		
Diagnostics	Emergency Stop/ Voltage Drop (Red Flashes to Blue)		
	Emergency Stop/ Worn Brushes (Red changes to Green)		



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Standard shipping set:

• MT3 Arbor with 3/4" (19 mm) Weldon tool holder

• Integrated coolant system

• Protective spring for cooling

• Set of tools with wedge

Instruction manual

• 6 mm hex wrench

• 2.5 mm hex wrench • 8 mm combination wrench

Locking connector

(only in 115 V version)

Drilling Capacity up to 4" (100 mm)

Max Depth of cut up to 4" (100 mm)

• 5 mm hex wrench with a

 Magnetic drilling machine Metal shipping box

• Handle (3 pcs)

• MT3 drift

Safety strap

hose • MT2 drift

handle

Tool can

Screw tapping







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## DRILLING & TAPPING MACHINE FROM STEELMAX®

## **D-500-XT HEAVY DUTY TAPPING & DRILLING MACHINE**

## POWERFUL HEAVY DUTY MAGENTIC DRILLING MACHINE

The D-500-XT drilling machine is suitable for many heavy-duty hole making and tapping applications. Powerful 2300 W, variable speed motor enables cutting capacity up to 5" (130 mm) and drilling capacity up to 1-5/8" (42mm). Forward and reverse functions allow allow tapping of pre-drilled holes up to 1-58" (M42) by using the quick change tapping system by Steelmax.

4-speed gear and continuous speed adjustment help to set the optimal speed depending on diameter, material grade and tool in use. Intelligent speed control system maintains the constant speed regardless of the changing load and increases tool life. Innovative 360-degree visual monitoring system facilitates machine operation and increases work safety.

#### FEATURES

 360-degree visual monitoring system indicates current condition of drill and gives safety and diagnostic information, e.g. worn brushes

- Very powerful 2300 W motor
- Overload & Overheat protection
- 4-Speed gear with continuous speed adjustment
- Intelligent speed control system maintains stable speed regardless of load changes
- Tapping of through and blind holes with intelligent load control
- Drilling with both TCT & HSS cutters and twist drill bits from small up to large diameters
- Full electronic motor control
- Electronic clutch (faster than mechanical)
- Rigid design extends tool life
- Tilt sensor (gyroscopic) stops motor in case of
- machine break away
- · Innovative smart magnet with reduced weight
- Intuitive control panel at top of the drill
- Large coolant reservoir



Intuitive control panel at top of the drill





Counterclockwise (CCW) rotation User-friendly control of tapping tool release

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D-500-XT Technical Specifications					
Motor Speeds (under load)	58-85 rpm (gear I) 100-150 rpm (gear 2) 200-300 rpm (gear 3) 350-520 rpm (gear 4)				
Motor Power	2300 W				
Weight	68 lbs (31 kg)				
Max Hole Size-Annular Cutter	5" (130 mm)				
Max Drilling Capacity	I -5/ 8" (42 mm)				
Max Tap Size	I-5/ 8" (M42)				
Stroke	10" (260 mm)				
Max Depth of Cut	4" (100 mm)				
Voltage	115 V, 50-60Hz 230 V, 50-60 Hz				
Magnetic clamping force (surface with the thickness of 25 mm and roughness Ra=1.25	5622 ft. lbs. (25000 N)				
Magnet base dimensions	4-1/ 8" x 12-3/ 8" x 2" 105 mm x315 mm x 50 mm				
Min. Workplace Thickness	3/ 8" (10 mm)				
Spindle	MT4				
Tool Holder	3/ 4" (19 mm) or 1 1/ 4" (32 mm) Weldon				
Part Number 115V, 50-60 Hz	SM-D-500-XT				
Part Number 230V, 50-60 Hz	SM-D-500-XT-230				

#### **360-degree Visual Monitoring System – VMS**



	Ready To Operate (Solid Green)
	Normal Operation (Solid White)
Drill	Motor Overheat (Solid Red)
Operational	Emergency Stop/Overload (Solid Blue)
Status	Emergency Stop/Low Adhesion (Solid Violet)
Safety	Inadequate Adhesion (Flashing Green)
Information	Near Overload (Flashing Blue
Diagnostics	Emergency Stop/ Voltage Drop (Red Flashes to Blue)
	Emergency Stop/ Worn Brushes (Red changes to Green)



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#### Standard shipping set:

- Magnetic drilling machine
- Metal shipping box
- Handle (3 pcs)
- MT4Arbor with 3/4" (19 mm) Weldon tool holder
- MT3 drift
- Coolant bottle assembly
- Safety strap
- Set of tools with wedge
- Instruction manual
- Protective spring for cooling hose
- MT2 drift
- 6 mm hex wrench
- 5 mm hex wrench with a handle
- 2.5 mm hex wrench
- 8 mm combination wrench
- Tool can
- Locking connector (only in 115 V version)

Drilling Capacity up to 5" (130 mm) Max Depth of cut up to 4" (100 mm)







#### Screw Tapping



## PNEUMATIC DRILLING MACHINE FROM STEELMAX®

## D1AIR ATEX CERTIFIED PNEUMATIC DRILL

## VERY LOW PROFILE DRILL FOR RESTRICTED SPACE

The **D1AIR ATEX** is an extremely small portable pneumatic drilling machine for cutting holes up to 1-3/8" (36 mm) diameter in hazardous environments and where access to the hole location is restricted. The D1AIR ATEX conforms to the ATEX II 2 G/D c IIC T6/T4 standard for equipment used in hazardous environments.

A combination of pneumatic drive and permanent magnetic base eliminate the need of an electric power supply, thus making this machine an ideal solution in many hazardous environments such as offshore oil platforms, mining applications, shipbuilding and petrochemical industries. The DIAIR ATEX is one of the lowest height magnetic drills currently available on the world market.

#### FEATURES

- 1-3/8" (35 mm) diameter x 1" (25 mm) depth of cut with annular cutters
- 5/8" (16 mm) diameter with solid twist drill bits
- · For use in hazardous environments fully ATEX compliant
- Low profile for use in height-restricted spaces
- Pneumatic drive and permanent magnetic base

DIAIR ATX Technical Sp	ecifications
Air consumption	50 CFM (1400 I/min)
Air pressure	90 psi (630 kpa)
Motor power	800W I.I HP
Tool holder	3/4" (19 mm) Weldon
Milling cutter (Core drill) Ø	1/2" – 1-3/8" (12 - 36 mm)
Max depth of cut	I" (25 mm)
Stroke	I-9/I6" (39 mm)
Cooling system	Through spindle
Type of cooling fluid	Water soluble
Magnet dead lift on I" (25 mm) plate	1461 lbs (6500 N)
Magnet dimensions: L x W x H	7-1/16" x 3-1/8" x 1-7/16" (180 x 80 x 36.5 mm)
Overall dimensions: L x W x H	8-7/8" x 6-5/8" x 7-1/16" (480 x 168 x 180 mm)
Weight	37 lbs (17 kg)
Part number	SM-DIAIR ATX



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# PNEUMATIC DRILLING MACHINE FROM STEELMAX®

# **D175 ATEX CERTIFIED PNEUMATIC DRILL**

## HEAVY-DUTY DRILL FOR HAZARDOUS ENVIRONMENTS

The D175 ATEX Pneumatic Drill from Steelmax is a small, portable drilling machine which drills holes up to 1.75" (45 mm) in diameter and up to 2" deep. The combination of a pneumatic drive and a permanent magnetic base eliminates the need for an electric power supply making this machine the ideal solution in many hazardous environments - such as oil drilling platforms, petrochemical plants, oil refineries, shipbuilding and the petrochemical industry where electric appliances are prohibited for safety reasons. The **D175** is fully ATEX certified for use in these environments.

#### FEATURES:

- ATEX certified for use in hazardous environments
- No need for electric power
- Strong permanent magnet base
- Comprehensive safety features
- Protection against motor start-up when magnetic base is not secure
- Two-speed gear box

D175 ATEX conforms to ATEX II 2 G/D c IIC T6/T4 Standard for equipment used in hazardous environments



Annular Cutters up to 1.75" (45 mm)

Depth of cut



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8 Twist drill 0.75" (20 mm)

2" (51 mm)



All information is subject to change without notice

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877-833-5629 DIAIR 09/2019



Stroke 6" (150 mm)

Speed 190 rpm, 290 rpm





## PNEUMATIC DRILLING MACHINE FROM STEELMAX®

D175	ATEX Technical Specifications
Spindle speed (under load)	190 rpm (gear I); 290 rpm (gear II)
Motor power	800 VV
Weight	58.5 lbs (26.5 kg)
Max milling capacity	1.75" (45 mm)
Max drilling capacity	0.75" (20 mm)
Stroke	6" (150 mm)
Max depth of cut	2" (51 mm)
Tool holder	3/4" Weldon Shank
Air consumption	50 CFM (1400 l/min)
Pressure	87 psi (6 bar)
Spindle	#2 Morse Taper
Minimum workpiece thickness	0.40" (10 mm)
Required ambient temperature	32–104° F (0–40° C)
Magnetic base holding force	765 kG (7 500 N)
Magnetic base dimensions	3.15" x 3.15" x 5.63" (80 mm x 80 mm x 143 mm)
Overall dimensions LxWxH	16.7" x 10.5" x 27.7" (424 mm x 268 mm x 703 mm)
Product Code	SM-D175 ATEX

#### Standard package includes:

- Pneumatic drilling machine
- Metal box
- Feed handles
- MT2 arbor for 3/4" weldon shank cutters
- Safety chain
- Cooling system
- Protective spring for cooling hose
- Set of tools
- Operator's manual

Drill chucks, arbor extensions and other accessories are available. See the full line catalog for more information.









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## DRILL ATTACHMENTS FROM STEELMAX®

# **MAGNETIC DRILL PIPE ATTACHMENTS** MOUNT DRILLS TO PIPES FOR SAFE OPERATION

Our magnetic drill pipe attachments are designed for mounting Steelmax drills on pipe, tubes, tanks and oval workpieces. These pipe attachments provide a flat, ferrous platform for the drill to adhere to and safely operate; allowing the user to easily drill holes in both ferrous and non-ferrous pipes.

The pivoting feet and tensioning chains make these pipe attachments very versatile and easy to adjust for various diameters. The DMP-250 and DMP-251 will work on pipe from 3" up to 9-1/2" diameter while the DMP-501 will work on 6" up to 19-1/2" diameter pipes.



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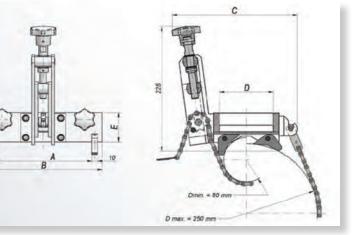
<b>PIPE Attachme</b>	nt A	В	С	D	Е	Suitable for:
DMP 0250	6" (152 mm)	7-3/8" (188 mm)	8-5/16" (211 mm)	3-5/16" (85 mm)	2-1/16" (52.5 mm)	<b>D1, D1 Pro</b> 3" to 9.5" pipe
DMP 0251	6-3/4" (172 mm)	8-3/16" (208 mm)	8-11/16" (221 mm)	3-3/4" (95 mm)	2-1/16" (52.5 mm)	<b>D200хт, D250х</b> 3" to 9.5" pipe
DMP 0501	9-3/16" (234 mm)	10-5/8" (270 mm)	10-1/16" ( 256 mm)	5-1/8" (130 mm)	2-1/16" (52.5 mm)	D1 Pro, D1 Auto D200xT, D250x D300xT, D400xT 6" to 19.5" pipe
All information is subject to For or	change without notice. rdering and custome	The	tools of innov	vation.	demonstration vide	cos, contact:

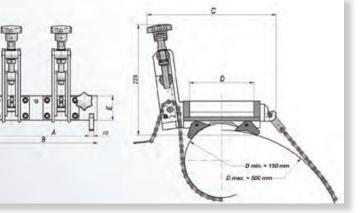


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PIPEATTACH 08/2020

D175ATEX 09/2019





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## STEELMAX<sup>®</sup> DRILL FEATURES & SPECIFICATIONS









MODEL	D1		D1 Auto	D1 Auto		D1 LP	
Drill Operation	Manual		Semi-automati	Semi-automatic		Manual	
Spindle	_		-	_		_	
Tool holder	3/4" (19 mm) Weldon		3/4" (19 mm) \	Veldon	3/4" (19 mm) V	Veldon	
Annular cutter (Core drill) Ø	max I-3/8" (3	6 mm)	max 1-3/8" (36	mm)	max I-3/8" (36	mm)	
Twist drill Ø	-		-		-		
Countersinking Ø	1-9/16" max (	(40 mm)	-		max 1-9/16" (4	0 mm)	
Max tap size	-		-	_			
Stroke	2-3/4" (70 mr	n)	2-3/4" (70 mm	)	I-1/2" (39 mm	)	
Max depth of cut	2" (51 mm)		2" (51 mm)		I-3/I6" (30 mr	n)	
Voltage	115V/60Hz		115V/60Hz		115V/60Hz		
International Voltage	230V/50Hz		230V/50Hz		230 V/50Hz		
Motor power	920 W I.2	HP	920 W I.2 I	ΗP	920 W I.2 H	P	
Speed	350 RPM		350 RPM		350 RPM		
Overload protection	yes		yes		-		
Reversing available	no	no			no		
ESSS (Electronic Speed Stabilization System)	-		-	-		-	
MPAC (Magnetic Power Adhesion Control)	yes		yes	yes		yes	
Continuous speed adjustment	-	-		-			
MFSC (Magnetic Field Shape Control)	yes	yes		yes		yes	
Magnetic Clamping Force (25 mm, Ra=1.25 mm)	2135 lbs (968	8 kG)	2135 lbs (968	2135 lbs (968 kG))		2000 lbs (907 kG))	
ESB (Energy Saving Base)	yes		yes	yes		yes	
	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	
Magnet – on I" (25 mm) plate	2135 lbs (968 kg)	859 lbs (389 kg)	2135 lbs (968 kg)	859 lbs (389 kg)	2000 lbs (907 kg)	810 lbs (367 kg)	
Magnet base dimensions	3-1/8" x 6-5/1 (80 x 160 x 3			3-1/8" x 6-5/16" x 1-7/16" (80 x 160 x 36.5 mm)		3-9/16" x 7-1/16" x 1-1/2" (90 x 180 x 38.5 mm)	
Minimum workpiece thickness	I/4" (6 mm)		I/4" (6 mm)	I/4" (6 mm)		I/4" (6 mm)	
Tapping accessories available	no		no	no		no	
Tool Weight	22 lbs (10 kg)		30 lbs (13.5 kg	30 lbs (13.5 kg)		21 lbs (9.5 kg)	
Part number	SM-D1 (115) SM-D1-230	,	SM-D1Auto SM-D1Auto	(115V/60Hz) <b>230</b> (230V/50Hz)	SM-D1LP (I SM-D1LP-23	15V/60Hz) 0 (230V/50Hz)	
<mark>4</mark> 877-833-5629	STE	ELMAX.COM	sales@	Steelmax.com	Fax: 3	03-690-9172	

# STEELMAX<sup>®</sup> DRILL FEATURES & SPECIFICATIONS





D1 Pro		D1-TS	D1-TS D1-SM			D1-PM		
Manual		Manual	Manual			Manual		
_		-	-		-		-	
3/4" (19 mm) V	Veldon	3/4" (19 mm) \	3/4" (19 mm) Weldon		Veldon	3/4" (19 mm)	Weldon	
max 1-9/16" (4 max 7/8" (23 m		max I-3/8" (36 -	ómm)	max I-3/8" (36 -	mm)	max 1-3/8"m -	ax (36 mm)	
max <b>I-9/16</b> " (4	0 mm)	max 1-9/16" (4	10 mm)	max 1-9/16" (4	0 mm)	max 1-9/16"	(40 mm)	
_		_		-		-		
4-7/8" (124 n	nm)	2-3/4" (70 mm	)	2-3/4" (70 mm)	)	2-3/4" (70 m	m)	
2" (51 mm)		2" (51 mm)		2" (51 mm)		2" (51 mm)		
115 V/60Hz		115V/60Hz		115V/60Hz		115V/60Hz		
230 V/50Hz		230V/50Hz		230V/50Hz		230V/50Hz		
1020 W 1.4 H	ΗP	920 W I.2 H	ΗP	920 W I.2 H	IP	920 W I.2	HP	
440 RPM		350 RPM		350 RPM		350 RPM		
_		yes		yes		yes		
no		no		no		no		
-		-	-		-		-	
yes		yes	yes		yes		yes	
_		_		yes		-		
yes		yes		yes		yes		
2200 lbs (998	kG)	2019 lbs (918	kG)	1346 lbs (612 kG)		1346 lbs (612 kG)		
yes		yes		yes		yes		
Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	
2203 lbs (1000 kg)	880 lbs (400 kg)	2135 lbs (968 kg)	859 lbs (389 kg)	2135 lbs (968 kg)	859 lbs (389 kg)	2135 lbs (968 kg)	859 lbs (389 kg)	
3-5/16" x 6-5/8 (84 x 168 x 41.		3.94" x 7.87" x (100 mm x 200		9.57" x 8.58" x 3.78 " (243 mm x 218 mm x 96 mm)		3.86" x 9.33" x 3.87" (98 mm x 237 mm x 100 mm)		
I/4" (6 mm)		I/8" (3 mm)		I/4" (5 mm)		I/4" (5 mm)		
no		no		no		no		
28 lbs (12.7 kg)		24 lbs (11 kg)	)	31 lbs oz (14 k	31 lbs oz (14 kg)		g)	
SM-D1PRO ( SM-D1PRO-2	l I 5V/60Hz) 3 <b>0</b> (230V/50Hz)	SM-D1-TS (  SM-D1-TS-2	15V/60Hz) <b>30</b> (230V/50Hz)	SM-D1-SM( SM-D1-SM-2	l I 5 V/60Hz) 3 <b>0</b> (230 V/50Hz)		(115V/60Hz) - <b>230</b> (230V/50Hz)	
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DCAP 05/2018





## STEELMAX<sup>®</sup> DRILL FEATURES & SPECIFICATIONS









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MODEL	<b>D-250X</b>		<b>D200XT</b>	<b>D</b> 200XT		<b>D</b> 300XT	
Drill Operation	Manual		Manual	Manual		Manual	
Spindle	-		MT2	MT2		MT3	
Tool holder	3/4" (19 mm)	Weldon	3/4" (19 mm) W	/eldon	3/4" (19 mm) V	Veldon	
Annular cutter (Core drill) Ø	max 2-9/16"	(65 mm)	max 2" (50 mm	)	max 2-3/4" (70	mm)	
Twist drill Ø			7/8" (23 mm)		I" (25 mm)		
Countersinking Ø	-		_				
Max tap size	-		3/4" (M20)		7/8" (M20)		
Stroke	3-3/4" (95 m	m)	7-1/2" (190 mm	n)	7-1/2" (190 mm	ו)	
Max depth of cut	3" (75 mm)		3" (75 mm)		2-15/16" (70 m	m)	
Voltage	II5V/50-60⊢	łz	115V/50-60Hz		I~ I I0−I 20 V, 5	50–60 Hz	
International Voltage	230V/50-60H	łz	230V/50-60Hz		I∼ 220–240 V, 5	50–60 Hz	
Motor power	1600 W		1600 W		1600 VV		
Speed	160 / 390 RP	M	160/250 and 39	90/580 RPM	120/190 and 29	0/450 RPM	
Overload protection	yes		yes		yes		
Reversing available	no		yes			yes	
ESSS (Electronic Speed Stabilization System	-		yes			yes	
MPAC (Magnetic Power Adhesion Control)	yes	yes		yes		yes	
Continuous speed adjustment	-		yes		-		
MFSC (Magnetic Field Shape Control)	yes			yes		yes	
Magnetic Clamping Force (25 mm, Ra=1.25 mm)	2474 ft lbs (	1122 kG)	2474 ft lbs (112	2474 ft lbs (1122 kG)		2474 ft lbs (1122 kG)	
ESB (Energy Saving Base)	yes		yes	yes		yes	
	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	
Magnet – on 1" (25 mm) plate	2135 lbs (968 kg)	859 lbs (389 kg)	2135 lbs (968 kg)	859 lbs (389 kg)	2000 lbs (907 kg)	810 lbs (367 kg)	
Magnet base dimensions	3-9/16" x 7" x (90 x 180 x 4			3-9/16" x 7" x 1-7/8" (90 x 180 x 48 mm)		3-5/8" × 7" × 2-1/8" (92 × 180 × 54 mm)	
Minimum workpiece thickness	5/6" (8 mm)		5/16" (8 mm)			5/16" (8 mm)	
Tapping accessories available	no		yes				
Tool Weight	37 lbs (17 kg)	)	37 lbs (17 kg)				
Part number	SM-D-250->	<b>C</b> (115V/60Hz) <b>C-230</b> (230V/50Hz)	SM-D-200XT	(115V/60Hz) <b>230</b> (230V/50Hz)	40 lbs (18 kg) SM-D-300XT SM-D-300XT	(115V/60Hz) <b>230</b> (230V/50Hz)	
26 877-833-5629	STI	EELMAX.COM	sales@S	teelmax.com	Fax: 30	)3-690-9172	

# STEELMAX<sup>®</sup> DRILL FEATURES & SPECIFICATIONS





D400XT		D500XT D1 Air			neumatic Drill	D175 Pneumatic Drill	
1anual		Manual		Manual		Manual	
MT3		MT4				MT2	
8/4" (19 mm) or ∣	1.25" (32 mm) Weldon	3/4" (19 mm)	or 1.25" (32mm) Weld	lon		3/4" (19 mm	) Weldon
max 4" (100 mm	)	max 5" (130 m	nm)	1/2"-1-3/8""	(12-36 mm)	max I-3/4" (	45 mm)
max I-1/4" (31.7	5mm)	max I-7/8" (4	7mm)	max 0.63" (I	6 mm)	max 0.78" (2	.0 mm)
				max 1.37" (3	5 mm)	-	
I-1/4" (M30)		I-5/8" (M42)		-		-	
9" (225 mm)		10" (260 mm)		I-9/I6" (39 n	nm)	6" (150 mm)	
4" (100 mm)		4" (100 mm)		I" (25 mm)		2" (50 mm)	
115 V/50-60Hz		115V/50-60Hz	:	-		-	
230 V/50-60Hz		230V/50-60Hz	:	-		-	
2300 W		2300 W		800 W		800 W	
75/110, 135/200, 390/570 RPM	75/110, 135/200, 220/320 & 55/85, 100/150, 200/300 & 390/570 RPM 350/520 RPM		240 RPM		190 and 290 RPM		
yes		yes		no		no	
yes		yes		yes		no	
yes		yes		-	_		
yes yes			yes		yes		
yes		yes		-		-	
yes		yes		yes		yes	
4045 ft lbs (1835	kG)	5622 ft lbs (2550 kG)		1462 ft lbs (6	63 kG)	1686 ft lbs (7	765 kG)
yes		yes		_		_	
Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway	Dead lift	Drill point breakaway
2203 lbs (1000 kg)	880 lbs (400 kg)	2697 lbs (1223 kg)	1074 lbs (487 kg)	1461 lbs (662 kg)	1779 lbs (806 kg)	4945 lbs (2242 kg)	1945 lbs (882 kg)
4.3" × 8.7" × 2" (110 × 220 × 50	mm)	4-1/8" x 12-3/8" x 2" (105 x 315 x 50 mm)		3.1" x 3.1" x (80 x 80 x 14		3.15" x 3.15' (80 x 80 x 14	
3/8" (10 mm)		3/8" (10 mm)				3/8" (10 mm)	
yes		yes		no		no	
55 lbs (25 kg)		68 lbs (31 kg)		37 lbs (17 kg	g)	58.5 lbs (26	.5 kg)
SM-D-400XT (115V/60Hz) SM-D400XT-230 (230V/50Hz)		SM-D-500XT SM-D-500XT	Г (115V/60Hz) F <b>230</b> (230V/50Hz)	SM-D1AIR	-ATX	SM-D175-A	лтх

DCAP 05/2018





## DRILL ACCESSORIES FROM STEELMAX®

## **Industrial Arbors & Drill Chucks**

**CONVERT YOUR** MAGNETIC DRILL FOR USE WITH TWIST DRILLS **ON SMALLER HOLES** 

SM-DC-MT2-13	1/2" Drill chuck for D2 & D2×
SM-DC-MT3-13	1/2" Drill Chuck for D3xRs Drill
SM-DC-MT3-20	3/4" Drill Chuck for D3xRs Drill
SM-DC-MT4-13	1/2" Drill Chuck for D4x Drill
SM-DC-MT4-20	3/4" Drill Chuck for D4X Drill
SM-TLJ-0197-10-00-03-0	Adapter/Arbor Weldon 19x1/2" - 20 UNF for D1 Pro Drill
SM-DC-PRO40	Drilling Chuck 16-1/2" - 20 UNF for DI Pro Drill
SM-IA-MT-2	2MT Industrial Arbor for 3/4" Weldon Shank Cutters
SM-IA-MT-3	3MT Industrial Arbor for 3/4" Weldon Shank Cutters
SM-IA-MT3-125	3MT Industrial Arbor for I-1/4" Weldon Shank Cutters
SM-IA-MT4-125	4MT Industrial Arbor for I-1/4" Weldon Shank Cutters
SM-IA-R8	R8 Industrial Arbor

## **Automatic Self-Revers**ing Tapping Heads

#### **PRODUCE GAGE PERFECT THREADS OUICKLY AND EFFICIENTLY**

Eliminate laborious hand tapping! Convert your magnetic base drill to a portable tapping machine. When the drill press spindle is raised, gears within the tapping head engage, causing the tapping head to reverse, quickly backing the tap out of the hole while producing perfect threads.

- · Achieve higher production rates. Batch quantities and heavy production rapidly achieved through accuracy and repeatability of the tapping heads.
- · The ball-clutch mechanism reduces tap breakage and can extend the life of the tap as much as 100%.
- A large planetary gear reverses the tap 75% faster than the drill speed.
- The tapping heads include rubber flex collets which can be used across the entire tapping head capacity.
- The Steelmax reversible tapping heads are excellent tools to work with the D3XRS magnetic drill with its variable speed capability.

SM-HR2 SM-HR3



1/8" - 1/2" (3 - 12 mm) Reversing tapping head with MT3 5/16" - 3/4" (8-20 mm)

**Magnetic Pick-Up Tool** 

This handy magnetic tool helps you put safety first.

from machinery and work areas using the

Never pick up metal chips or shavings again.

• Safely remove metal chips and debris

demagnetizes the tool which releases

SIZE

10" tool

15" too

Steelmax magnetic pick-up tool.

chips for quick and safe disposal. • Available in 10" and 15" lengths

• The slide action lever instantly

#### HIGH PERFORMANCE, **BIODEGRADABLE**

## Cutting Fluid

- 100% biodegradable; fully-synthetic, nitrite-free, water soluble concentrate
- High tech pressure additives provide outstanding tool life and finish
- Superior cooling properties
- No unpleasant odors; non-toxic & non-carcinogenic
- Excellent rust protection & non-corrosive
- Extends cutter life
- · Low foaming; easy clean up

PART NUMBERS	SIZE
SM-TBCF-IQ	Quart
SM-TBCF-IG	Gallon
SM-TBCF-55G	55-Gallon Drum (special order)

For most cutting applications, a mix of 8:1 with water is typically recommended with this concentrated solution.

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Made in USA.
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877-833-5629

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sales@Steelmax.com

PART NUMBERS

SM-MPI0

SM-MP15

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SAFETY FIRST!

Fax: 303-690-9172

# **STEELMAX TAPPING COLLETS AND CHUCKS**

## QUICK CHANGE TAPPING SYSTEM

Select Steelmax Drills utilize customized tapping heads to become industry leading tapping machines, with the ability to tap pre-drilled or blind holes. Suitable for use with either quick change clutched or positive driven type collets.







DRILL ACCESS 08/2020

3		SM-D-400-XT		SM-D-500-XT				
	SM-DPR-0584-11-00-00-1	SM- 0PR-0584-08-00-00-1	SM-0PR-0584-02-00-00-1	1-00-00-60-1650-140-WS	SM-0PR-0584-04-00-00-1	SM-OPR-0584-07-00-20-1		
	MT3	MT3	MT3	MT4	MT4	MT4		
5	M-WKL-000167	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM+RDC-000009			
5	M-WKL-000168	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009			
5	M-WKL-000169	5M-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009			
13	M-WKL-000170	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009			
5	M-WKL-000171	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009			
		SM-WKL-000173	SM-RDC-000010	SM-WKL-000173	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000174	SM-RDC-000010	SM-WKL-000174	SM-RDC-000010	SM-RDC-000011		
1		SM-WKL-000175	SM-RDC-000010	SM-WKL-000175	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000176	SM-RDC-000010	SM-WKL-000176	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000177	SM-RDC-000010	SM-WKL-000177	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000178	SM-RDC-000010	SM-WKL-000178	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000179	SM-RDC-000010	SM-WKL-000179	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000180	SM-RDC-000010	SM-WKL-000180	SM-RDC-000010	SM-RDC-000011		
1		SM-WKL-000181	SM-RDC-000010	SM-WKL-000181	SM-RDC-000010	SM-RDC-000011		
		SM-WKL-000182	SM-RDC-000010	SM-WKL-000182	SM-RDC-000010	SM-RDC-000011		
			SM-WKL-000183		SM-WKL-000183	SM-RDC-000012		
			SM-WKL-000184		SM-WKL-000184	SM-RDC-000012		
			SM-WKL-000185		SM-WKL-000185	SM-RDC-000012		
			SM-WKL-000186		SM-WKL-000186	SM-RDC-000012		
			SM-WKL-000187		SM-WKL-000187	SM-RDC-000012		
			SM-WKL-000120		SM-WKL-000120	SM-RDC-000012		
			SM-WKL-000121		SM-WKL-000121	SM-RDC-000012		
			SM-WKL-000122		SM-WKL-000122	SM-RDC-000012		
			SM-WKL-000123		SM-WKL-000123	SM-RDC-000012		
						SM-WKL-000124		
						SM-WKL-000125		
						SM-WKL-000126		
						SM-WKL-000127		
						SM-WKL-000128		
						SM-WKL-000129		
						SM-WKL-000130		
						SM-WKL-000131		

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# STEELMAX TAPPING COLLETS AND CHUCKS

## QUICK CHANGE TAPPING SYSTEM

Options for blind (partial) hole threading using any of The Steelmax Drilling & Tapping Machines.

		SM-D-	200-XT	SM-D-	300-XT		SM-D-400-XT		1	SM-D-500-XT	
	HED COLLET	SM-OPR-0584-06-00-00-1	SM-0PR-0584-10-00-00-1	SM-OPR-0584-11-00-00-1	SM-0PR-0584-08-00-00-1	SM-0PR-0584-11-00-00-1	SM- OPR-0584-08-00-1	SM- 5M- 0PR-0584-02-00-01	SM- 0PR-0584-09-00-1	SM- 0PR-0584-04-00-01	OPR-0584-07-00-00-1
Thread	With Safety Clutch	MT2	MT2	MT3	MT3	MT3	MT3	MT3	MT4	MT4	MT4
5/16"	SM-WKL-000133	SM-WKL-000133	SM-RDC-000008	SM-WKL-000133	SM-RDC-000008	SM-WKL-000133	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009	
3/8"	SM-WKL-000134	SM-WKL-000134	SM-RDC-000008	SM-WKL-000134	SM-RDC-000008	SM-WKL-000134	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009	
7/16"	SM-WKL-000135	SM-WKL-000135	SM-RDC-000008	SM-WKL-000135	SM-RDC-000008	SM-WKL-000135	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009	
1/2"	SM-WKL-000136	SM-WKL-000136	SM-RDC-000008	SM-WKL-000136	SM-RDC-000008	SM-WKL-000136	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009	
9/16"	SM-WKL-000137	SM-WKL-000137	SM-RDC-000008	SM-WKL-000137	SM-RDC-000008	SM-WKL-000137	SM-RDC-000008	SM-RDC-000009	SM-RDC-000008	SM-RDC-000009	
5/16"	SM-WKL-000139		SM-WKL-000139		5M-WKL-000139		SM-WKL-000139	SM-RDC-000010	SM-WKL-000139	SM-RDC-000010	SM-RDC-00001
3/8"	SM-WKL-000140		SM-WKL-000140		SM-WKL-000140	1	SM-WKL-000140	SM-RDC-000010	SM-WKL-000140	SM-RDC-000010	SM-RDC-00001
7/16"	SM-WKL-000141		SM-WKL-000141		SM-WKL-000141	1	SM-WKL-000141	SM-RDC-000010	SM-WKL-000141	SM-RDC-000010	SM-RDC-00001
1/2"	SM-WKL-000142		SM-WKL-000142		SM-WKL-000142	]	SM-WKL-000142	SM-RDC-000010	SM-WKL-000142	SM-RDC-000010	SM-RDC-00001
9/16"	SM-WKL-000143		SM-WKL-000143		SM-WKL-000143	]	SM-WKL-000143	SM-RDC-000010	SM-WKL-000143	SM-RDC-000010	SM-RDC-00001
5/8"	SM-WKL-000144	(* L	SM-WKL-000144		SM-WKL-000144	1	SM-WKL-000144	SM-RDC-000010	SM-WKL-000144	SM-RDC-000010	SM-RDC-00001
11/16"	SM-WKL-000145		SM-WKL-000145		SM-WKL-000145	]	SM-WKL-000145	SM-RDC-000010	SM-WKL-000145	SM-RDC-000010	SM-RDC-00001
3/4"	SM-WKL-000146		SM-WKL-000146	11	SM-WKL-000146	1	SM-WKL-000146	SM-RDC-000010	SM-WKL-000146	SM-RDC-000010	SM-RDC-00001
13/16"	SM-WKL-000147				SM-WKL-000147	1	SM-WKL-000147	SM-RDC-000010	SM-WKL-000147	SM-RDC-000010	SM-RDC-00001
7/8"	SM-WKL-000148						SM-WKL-000148	SM-RDC-000010	SM-WKL-000148	SM-RDC-000010	SM-RDC-00001
5/8"	SM-WKL-000149						SM-WKL-000149	SM-WKL-000149	SM-WKL-000149	SM-WKL-000149	SM-RDC-00001
11/16"	SM-WKL-000150							SM-WKL-000150		SM-WKL-000150	SM-RDC-00001
3/4"	SM-WKL-000151							SM-WKL-000151			SM-RDC-00001
13/16"	5M-WKL-000152							SM-WKL-000152		SM-WKL-000152	SM-RDC-00001
7/8"	SM-WKL-000153							SM-WKL-000153		SM-WKL-000153	SM-RDC-00001
15/16"	SM-WKL-000154							SM-WKL-000154			SM-RDC-00001
1"	SM-WKL-000155							SM-WKL-000155	2 S S		SM-RDC-00001.
1-1/8"	SM-WKL-000156							SM-WKL-000156		SM-WKL-000156	SM-RDC-00001
1-1/4"	SM-WKL-000157							SM-WKL-000157		SM-WKL-000157	SM-RDC-00001
7/8"	SM-WKL-000158	0									SM-WKL-00015
15/16"	SM-WKL-000159										SM-WKL-00015
1"	SM-WKL-000160	5									SM-WKL-00016
1-1/8"	SM-WKL-000161										SM-WKL-00016:
1-1/4"	SM-WKL-000162										SM-WKL-000162

RA – Reduction Adapters

# feat. securing nut

Tapping chuck

Product Code	Туре	Description
RDC-000008	RA 2/1	Reduction Adapter 2/1 (31 mm / 19 mm)
RDC-000009	RA 3/1	Reduction Adapter 3/1 (48 mm / 19 mm)
RDC-000010	RA 3/2	Reduction Adapter 3/2 (48 mm / 31 mm)
RDC-000011	RA 4/2	Reduction Adapter 4/2 (60 mm / 31 mm)
RDC-000012	RA 4/3	Reduction Adapter 4/3 (60 mm / 48 mm)

Product Code	Туре	Description
OPR-0584-06-00-00-1	MT2-19	Tapping chuck MT2 x 19 mm
OPR-0584-10-00-00-1	MT2-31	Tapping chuck MT2 x 31 mm
OPR-0584-11-00-00-1	MT3-19	Tapping chuck MT3 x 19 mm
OPR-0584-08-00-00-1	MT3-31	Tapping chuck MT3 x 31 mm
OPR-0584-02-00-00-1	MT3-48	Tapping chuck MT3 x 48 mm
OPR-0584-09-00-00-1	MT4-31	Tapping chuck MT4 x 31 mm
OPR-0584-04-00-00-1	MT4-48	Tapping chuck MT4 x 48 mm
OPR-0584-07-00-00-1	MT4-60	Tapping chuck MT4 x 60 mm



#### 877-833-5629

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DRILL ACCESS 08/2014

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# VACUUM PAD FOR MAG DRILLS FROM STEELMAX®

## VACUUM PAD FOR DRILLING On Non-Ferrous Materials

## SAFELY & SECURELY USE MAGNETIC BASED DRILLS On Non-Ferrous Materials

Bring the portability and convenience of a magnetic based drill to any non-ferrous material with the Mag Drill Vacuum Pad from Steelmax. This Vacuum Pad enables Steelmax magnetic based drills to effectively operate on non-ferrous materials, where magnetic adhesion of a magnetic based drill is not possible.

The Vacuum Pad can be used with either a vacuum pump or connected to a compressed air system to provide adhesion to the material. A steel plate on top of the Vacuum Pad allows the magnetic based drill to safely adhere to the pad and be used as if it were drilling in ferrous material\*.

### **FEATURES**

- Enables drilling on flat non-ferrous materials
- Designed for use with Steelmax D1, D1 Pro & D200XT, Magnetic based drills
- · Included 6ft connection hose provides increased portability
- Can beconfigured with s vacuum pump (standard) or

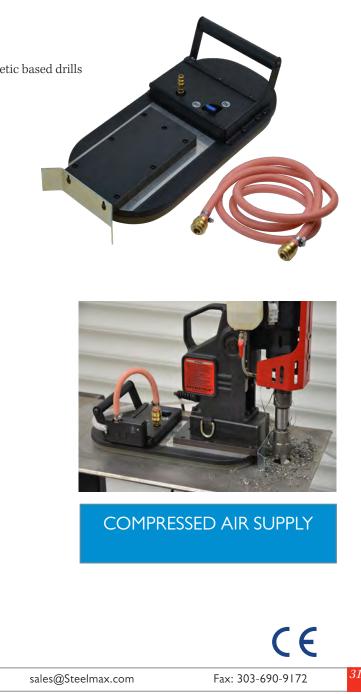
a compressed air supply (optional)

\*Note: A 2" arbor extension and longer pilot pin are required to maintain the full depth of cut of the annular cutter.



## VACUUM SUPPLY

877-833-5629



## VACUUM PAD FOR MAG DRILLS

#### VACUUM SUPPLY

Portable vacuum pump with safety reservoir -

SM-AGR-0541-24-10-00-0 for 115 V SM-AGR-0541-24-20-00-0 for 230 V

**Compressed Air Supply** 

Utilize an existing compressed air system Compressed air ejector SM-ZSP-0587-11-00-00-0



Technical Specifications of VA	CUUM PAD for Mag Drill Vacuum Supply
Gauge pressure*	'-0.8 bar (-11.5 psig)
Connection	Quick Coupling DN 7.2
Capacity	4m3/h (141 ft3/h)
Holding force	0 m above sea level 4800 N
(at gauge pressure of -0.8 bar/-11.5 psig)	3800 N
Minimum workpiece thickness	5 mm
Drilling depth decrease	40 mm (1-9/16")
Dimensions	488 mm x 214 mm x 107mm 19-3/16" x 8-7/16" x 4-3/16"
Supply hose length	2 m (6.5 ft.)
Required ambient temperature	1-40 C (34-104 F)
Weight	7.5 kg (16.5 lbs)
Part Number	SM-PDS-0587-24-00-00-0

#### **Additional Required Equipment**

Using vacuum pad results in a decrease in annular cutter regular depth of cut by 1.5" (40 mm). An arbor extension and longer pilot pins allow for full depth of cut.



2" (50 mm) Arbor Extension • Product code: SM-WS-EX-2

• Requires longer pilot pin (depending on cutter used)

TECHNICAL SPECIFICATIO	N OF VACUUM PAD FOR M	AG DRILL – COMPRE	essed air supply
Supply		6 bar (87 psi)	
Connection		Quick-couplir	ng fitting DN 7.2
Air consumption		4 m3/h (141 f	t3/h)
Supply hose length		2 m (6.5 ft)	
Holding force	0 m above sea level	4800 N	
(at gauge pressure of -0.8 bar / -11.5 psig)	1500 m above sea level	3800 N	
Required ambient temperature		I-40 °C (34–1	04°F)
Diameter of supply hose extension (if neede	8 mm		
Maximum total length of supply hose (includ	10 m		
7-833-5629 STEELMAX.C	OM sales@St	eelmax.com	Fax: 303-690-9172

# STEELMAX<sup>®</sup> ANNULAR CUTTERS

## **HSS & TCT ANNULAR CUTTERS**

## A FULL LINE OF HIGH-QUALITY ANNULAR CUTTERS – OFFERING OUR CUSTOMERS THE LOWEST COST PER HOLE ON THE MARKET TODAY

Steelmax offers a full line of high-quality High Speed Steel (HSS) and Tungsten Carbide Tipped (TCT) annular cutters for all of your hole-making needs. We stock a full range of both HSS and TCT cutters from 7/16" to 3" in diameter and 1", 2" and 3" depths of cut. Custom sizes are also available. All Steelmax annular cutters have standard Weldon shanks (3/4" shank for cutter diameters up to 2-3/8" and 1-1/4" shank for cutter diameters above 2-3/8"). As a result, Steelmax cutters will fit and improve the performance of any mag drill!

All Steelmax cutters ship with a pilot pin installed at no extra charge.

Annular cutters have many advantages over traditional twist drills:

- Eliminates costly and time consuming step-drilling
- Significantly less drilling time 3-4 times faster than twist drills
- Longer tool life 5-10 times as many holes as a comparable twist drill bit
- More accurate and higher quality holes burr-free with no clean up
- Easily drill on curved surfaces such as pipe or tubing
- Create overlapping holes
- · Lower machine and horsepower requirements when compared to twist drills

#### **HSS Cutters**

Steelmax HSS cutters utilize an M2Al (aluminum additive) formulation which increases cutter life due to better heat propagation characteristics and its less brittle character compared to other M2 formulations, such as those using a cobalt additive. HSS cutters are most cost effective for mild steel applications and holes up to 2-3/8" in diameter in material up to 2" thick and can be re-sharpened to extend cutter life.

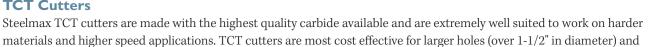
#### **TCT Cutters**

in thicker materials (2" and over).

#### **Cutting Fluid**

Steelmax High-Performance Cutting Fluid should be used with all annular cutters for optimal cutting performance and to extend cutter life. Our High-Performance Cutting Fluid is a water-based cutting fluid that is bio-degradable and does not require time-consuming cleanup prior to welding or assembling parts.









# STEELMAX<sup>®</sup> HSS ANNULAR CUTTERS

#### STEELMAX M2AL HSS ANNULAR CUTTERS I" DOC 2" DOC 4" DOC 6" DOC Decimal Diameter Equivalent Part Number Part Number Part Number Part Number 7/16" 0.4375 SM-AC-04375-1 SM-AC-04375-2 0.5000 SM-AC-05000-1 1/2" SM-AC-05000-2 4" and 6" DOC Cutters not avaiable in these 0.5625 SM-AC-05625-1 SM-AC-05625-2 9/16" diameters 0.6250 SM-AC-06250-1 SM-AC-06250-2 5/8" 11/16" 0.6875 SM-AC-06875-1 SM-AC-06875-2 SM-AC-06875-4 3/4" 0.7500 SM-AC-07500-1 SM-AC-07500-2 SM-AC-07500-4 13/16" 0.8125 SM-AC-08125-4 SM-AC-08125-1 SM-AC-08125-2 0.8750 7/8" SM-AC-08750-1 SM-AC-08750-2 SM-AC-08750-4 SM-AC-08750-6 15/16" 0.9375 SM-AC-09375-1 SM-AC-09375-2 SM-AC-09375-4 SM-AC-09375-6 1" 1.0000 SM-AC-10000-1 SM-AC-10000-2 SM-AC-10000-4 SM-AC-10000-6 SM-AC-10625-1 1-1/16" 1.0625 SM-AC-10625-2 SM-AC-10625-4 SM-AC-10625-6 1-1/8" 1.1250 SM-AC-11250-1 SM-AC-11250-2 SM-AC-11250-4 SM-AC-11250-6 1-3/16" 1.1875 SM-AC-11875-1 SM-AC-11875-2 SM-AC-11875-4 SM-AC-11875-6 1-1/4" 1.2500 SM-AC-12500-1 SM-AC-12500-2 1.3125 1-5/16" SM-AC-13125-1 SM-AC-13125-2 1-3/8" 1.3750 SM-AC-13750-2 SM-AC-13750-1 1.4375 SM-AC-14375-2 1-7/16" SM-AC-14375-1 1.5000 SM-AC-15000-2 1-1/2" SM-AC-15000-1 1-9/16" 1.5625 SM-AC-15625-1 SM-AC-15625-2 1.6250 SM-AC-16250-1 SM-AC-16250-2 1-5/8" 1.6875 SM-AC-16875-1 SM-AC-16875-2 1-11/16" 1.7500 SM-AC-17500-1 SM-AC-17500-2 1-3/4" Other sizes available by special order. Please 1-13/16" 1.8125 SM-AC-18125-1 SM-AC-18125-2 call for more information. 1.8750 1-7/8" SM-AC-18750-1 SM-AC-18750-2 1.9375 SM-AC-19375-2 1-15/16" SM-AC-19375-1 2.0000 2" SM-AC-20000-1 SM-AC-20000-2 2-1/16" 2.0625 SM-AC-20625-1 SM-AC-20625-2

#### M2AL HSS Annular Cutters

STEELMAX<sup>®</sup> TCT ANNULAR CUTTERS

		STEE	LMAX TCT ANNULA	AR CUTTERS					
		1-3/8" DOC	2" DOC	3" DOC	4" DOC	6" DOC			
Diameter	Decimal Equivalent	Part Number	Part Number	Part Number	Part Number	Part Number			
1/2"	0.5000	SM-AC-TC-05000-1	SM-AC-TC-05000-2						
9/16"	0.5625	SM-AC-TC-05625-1	SM-AC-TC-05625-2						
5/8"	0.6250	SM-AC-TC-06250-1	SM-AC-TC-06250-2	INOT.	Not Available in These Diameters				
11/16"	0.6875	SM-AC-TC-06875-1	SM-AC-TC-06875-2	Automatica and a state					
3/4"	0.7500	SM-AC-TC-07500-1	SM-AC-TC-07500-2	SM-AC-TC-07500-3	SM-AC-07500-4	SM-AC-TC-07500-6			
13/16"	0.8125	SM-AC-TC-08125-1	SM-AC-TC-08125-2	SM-AC-TC-08125-3	SM-AC-08125-4	SM-AC-TC-08125-6			
7/8"	0.8750	SM-AC-TC-08750-1	SM-AC-TC-08750-2	SM-AC-TC-08750-3	SM-AC-08750-4	SM-AC-TC-08750-6			
15/16"	0.9375	SM-AC-TC-09375-1	SM-AC-TC-09375-2	SM-AC-TC-09375-3	SM-AC-09375-4	SM-AC-TC-09375-6			
1"	1.0000	SM-AC-TC-10000-1	SM-AC-TC-10000-2	SM-AC-TC-10000-3	SM-AC-10000-4	SM-AC-TC-10000-6			
1-1/16"	1.0625	SM-AC-TC-10625-1	SM-AC-TC-10625-2	SM-AC-TC-10625-3	SM-AC-10625-4	SM-AC-TC-10625-6			
1-1/8"	1.1250	SM-AC-TC-11250-1	SM-AC-TC-11250-2	SM-AC-TC-11250-3	SM-AC-11250-4	SM-AC-TC-11250-6			
1-3/16"	1.1875	SM-AC-TC-11875-1	SM-AC-TC-11875-2	SM-AC-TC-11875-3	SM-AC-11875-4	SM-AC-TC-11875-6			
1-1/4"	1.2500	SM-AC-TC-12500-1	SM-AC-TC-12500-2	SM-AC-TC-12500-3					
1-5/16"	1.3125	SM-AC-TC-13125-1	SM-AC-TC-13125-2	SM-AC-TC-13125-3					
1-3/8"	1.3750	SM-AC-TC-13750-1	SM-AC-TC-13750-2	SM-AC-TC-13750-3					
1-7/16"	1.4375		SM-AC-TC-14375-2	SM-AC-TC-14375-3					
1-1/2"	1.5000		SM-AC-TC-15000-2	SM-AC-TC-15000-3					
1-9/16"	1.5625		SM-AC-TC-15625-2	SM-AC-TC-15625-3					
1-5/8"	1.6250		SM-AC-TC-16250-2	SM-AC-TC-16250-3					
1-11/16"	1.6875		SM-AC-TC-16875-2	SM-AC-TC-16875-3					
1-3/4"	1.7500		SM-AC-TC-17500-2	SM-AC-TC-17500-3					
1-13/16"	1.8125		SM-AC-TC-18125-2	SM-AC-TC-18125-3	the second s	by special order. Pleas e information.			
1-7/8"	1.8750	Available by Special	SM-AC-TC-18750-2	SM-AC-TC-18750-3	call for mor	e mormation.			
1-15/16"	1.9375	Order	SM-AC-TC-19375-2	SM-AC-TC-19375-3					
2"	2.0000		SM-AC-TC-20000-2	SM-AC-TC-20000-3					
2-1/16"	2.0625		SM-AC-TC-20625-2	SM-AC-TC-20625-3					
2-1/8"	2.1250		SM-AC-TC-21250-2	SM-AC-TC-21250-3					
2-3/16"	2.1875		SM-AC-TC-21875-2	SM-AC-TC-21875-3					
2-1/4"	2.2500		SM-AC-TC-22500-2	SM-AC-TC-22500-3					
2-5/16"	2.3125		SM-AC-TC-23125-2	SM-AC-TC-23125-3					
2-3/8"	2.3750		SM-AC-TC-23750-2	SM-AC-TC-23750-3					

Pilot Pens included with 1," 2" and 4" DOC cutter. Pilot Pen for 6" DOC must be purchased separately

Pilot Pens included with 1", 2" and 4" DOC cutter. Pilot Pen for 6" DOC must be

purchased separately

2.1250

2.1875

2.2500

2.3125

2,3750



For ordering and customer service, or to request detailed product information or demonstration videos, contact:

SM-AC-21250-2

SM-AC-21875-2

SM-AC-22500-2

SM-AC-23125-2

SM-AC-23750-2

2-1/8"

2-3/16"

2-1/4"

2-5/16"

2-3/8"

SM-AC-21250-1

SM-AC-21875-1

SM-AC-22500-1

SM-AC-23125-1

SM-AC-23750-1



#### **TCT** Annular Cutters





## STEELMAX<sup>®</sup> METRIC HSS ANNULAR CUTTERS

	Decimal	I" DOC	2" DOC	
Diameter	Equivalent	Part Number	Part Number	
14mm	0.5512	SM-AC-14-M-1	SM-AC-14-M-2	
15mm	0.5906	SM-AC-15-M-1	SM-AC-15-M-2	
16mm	0.6299	SM-AC-16-M-1	SM-AC-16-M-2	
17mm	0.6693	SM-AC-17-M-1	SM-AC-17-M-2	
18mm	0.7087	SM-AC-18-M-1	SM-AC-18-M-2	
19mm	0.7480	SM-AC-19-M-1	SM-AC-19-M-2	
20mm	0.7874	SM-AC-20-M-1	SM-AC-20-M-2	
21mm	0.8268	SM-AC-21-M-1	SM-AC-21-M-2	
22mm	0.8661	SM-AC-22-M-1	SM-AC-22-M-2	
23mm	0.9055	SM-AC-23-M-1	SM-AC-23-M-2	
24mm	0.9449	SM-AC-24-M-I	SM-AC-24-M-2	
25mm	0.9843	SM-AC-25-M-1	SM-AC-25-M-2	
26mm	1.0236	SM-AC-26-M-1	SM-AC-26-M-2	
27mm	1.0630	SM-AC-27-M-1	SM-AC-27-M-2	
28mm	1.1024	SM-AC-28-M-1	SM-AC-28-M-2	
29mm	1.1417	SM-AC-29-M-1	SM-AC-29-M-2	
30mm	1.1811	SM-AC-30-M-1	SM-AC-30-M-2	
31mm	1.2205	SM-AC-31-M-1	SM-AC-31-M-2	
32mm	1.2598	SM-AC-32-M-1	SM-AC-32-M-2	
33mm	1.2992	SM-AC-33-M-I	SM-AC-33-M-2	
34mm	1.3386	SM-AC-34-M-1	SM-AC-34-M-2	
35mm	1.3780	SM-AC-35-M-1	SM-AC-35-M-2	
36mm	1.4173	SM-AC-36-M-1	SM-AC-36-M-2	
37mm	1.4567	SM-AC-37-M-1	SM-AC-37-M-2	
38mm	1.4961	SM-AC-38-M-1	SM-AC-38-M-2	
39mm	1.5354	SM-AC-39-M-1	SM-AC-39-M-2	
40mm	1.5748	SM-AC-40-M-I	SM-AC-40-M-2	
41mm	1.6142	SM-AC-41-M-1	SM-AC-41-M-2	
42mm	1.6535	SM-AC-42-M-1	SM-AC-42-M-2	
43mm	1.6929	SM-AC-43-M-1	SM-AC-43-M-2	
44mm	1.7323	SM-AC-44-M-I	SM-AC-44-M-2	
45mm	1.7717	SM-AC-45-M-1	SM-AC-45-M-2	
46mm	1.8110	SM-AC-46-M-I	SM-AC-46-M-2	
47mm	1.8504	SM-AC-47-M-1	SM-AC-47-M-2	
48mm	1.8898	SM-AC-48-M-1	SM-AC-48-M-2	
49mm	1.9291	SM-AC-49-M-1	SM-AC-49-M-2	
50mm	1.9685	SM-AC-50-M-I	SM-AC-50-M-2	



## STEELMAX LARGE DIAMETER T

CUTTERS						
Diameter	Decimal	2" DOC				
Diameter	Equivalent	Part Number				
2-7/16"	2.4375	SM-AC-TC-24375-2				
2-1/2"	2.5000	SM-AC-TC-25000-2				
2-9/16"	2.5625	SM-AC-TC-25625-2				
2-5/8"	2.6250	SM-AC-TC-26250-2				
2-11/16"	2.6875	SM-AC-TC-26875-2				
2-3/4"	2.7500	SM-AC-TC-27500-2				
2-13/16"	2.8125	SM-AC-TC-28125-2				
2-7/8"	2.8750	SM-AC-TC-28750-2				
2-15/16"	2.9375	SM-AC-TC-29375-2				
3"	3.0000	SM-AC-TC-30000-2				
3-1/16"	3.0625	SM-AC-TC-30625-2				
3-1/8"	3.1250	SM-AC-TC-31250-2				
3-3/16"	3.1875	SM-AC-TC-31875-2				
3-1/4"	3.2500	SM-AC-TC-32500-2				
3-5/16"	3.3125	SM-AC-TC-33125-2				
3-3/8"	3.3750	SM-AC-TC-33750-2				
3-7/16"	3.4375	SM-AC-TC-34375-2				
3-1/2"	3.5000	SM-AC-TC-35000-2				
3-9/16"	3.5625	SM-AC-TC-35625-2				
3-5/8"	3.6250	SM-AC-TC-36250-2				
3-11/16"	3.6875	SM-AC-TC-36875-2				
3-3/4"	3.7500	SM-AC-TC-37500-2				
3-13/16"	3.8125	SM-AC-TC-38125-2				
3-7/8"	3.8750	SM-AC-TC-38750-2				
3-15/16"	3.9375	SM-AC-TC-39375-2				

Pilot Pens included with metric HSS cutter purchases



For ordering and customer service, or to request detailed product information or demonstration videos, contact:

R TCT ANNULAR	
2" DOC	
Part Number	
SM-AC-TC-24375-2	
SM-AC-TC-25000-2	1
SM-AC-TC-25625-2	
SM-AC-TC-26250-2	
SM-AC-TC-26875-2	
SM-AC-TC-27500-2	
SM-AC-TC-28125-2	
SM-AC-TC-28750-2	1
SM-AC-TC-29375-2	
SM-AC-TC-30000-2	
SM-AC-TC-30625-2	
SM-AC-TC-31250-2	
SM-AC-TC-31875-2	
SM-AC-TC-32500-2	
SM-AC-TC-33125-2	
SM-AC-TC-33750-2	
SM-AC-TC-34375-2	
SM-AC-TC-35000-2	
SM-AC-TC-35625-2	
SM-AC-TC-36250-2	
SM-AC-TC-36875-2	
SM-AC-TC-37500-2	Pilot Pens ir
SM-AC-TC-38125-2	large diame
TO DIAL AND THE PROPERTY AND A DECIMARY	

included with eter Annular Cutter purchases



## STEELMAX<sup>®</sup> ANNULAR CUTTER SETS

Steelmax Cutter Set SM-AC-SET-7-I I" Depth of Cut, 3/4" Shank					
Cutter Diameter	iameter Decimal Equivalent Part Number				
9/16"	0.5625	SM-AC-05625-1			
11/16"	0.6875	SM-AC-06875-1			
13/16"	0.8125	SM-AC-08125-1			
15/16"	0.9375	SM-AC-09375-1			
1-1/16"	1.0625	SM-AC-10625-1			
I" Pilot Pin SM-PP-02					
Steelmax Cutter Set SM-AC-SET-7-2 2" Depth of Cut, 3/4" Shank					

•		
Cutter Diameter	Decimal Equivalent	Part Number
9/16"	0.5625	SM-AC-05625-2
11/16"	0.6875	SM-AC-06875-2
13/16"	0.8125	SM-AC-08125-2
15/16"	0.9375	SM-AC-09375-2
I-I/I6"	1.0625	SM-AC-10625-2
2" Pilot Pin		SM-PP-04

#### **Coutersinks For Magnetic Drills** 3/4" Weldon Shank

Diameter	# of Flutes	Degree	Part Number				
1"	3	82	SM-CTS-1000-82				
I"	3	90	SM-CTS-1000-90				
1-1/2"	3	82	SM-CTS-1500-82				
1-1/2"	3	90	SM-CTS-1500-90				
2"	3	82	SM-CTS-2000-82				
2"	3	90	SM-CTS-2000-90				

#### **Twist Bits for Magnetic Drills** 3/4" \Maldan Sha

Diameter	Decimal Equivalent	Depth of Cut	Part Number					
1/4"	0.2500	2"	SM-AC-TB-02500-2					
5/16"	0.3125	2"	SM-AC-TB-03125-2					
3/8"	0.3750	2"	SM-AC-TB-03750-2					

		I" DOC HSS Cutters	2" DOC HSS Cutters 2" DOC TCT Cutters	3" DOC TCT Cutters
A	dapator	SM-NDA-634	SM-NDA-634	SM-NDA-798
Р	ilot Pin	SM-PP-04	SM-PP-19	SM-PP-20

\*Allows any standard 3/4" weldon shank cutter to fit in a Nitto Drill



877-833-5629

Steelmax point-of-sale cutter display available. Call for details.

#### Steelmax Cutter Set SM-AC-SET-13-1 I" Depth of Cut, 3/4" Shank

Cutter Diameter	Decimal Equivalent	Part Number
7/16"	0.4375	SM-AC-04375-1
1/2"	0.5000	SM-AC-05000-1
9/16"	0.5625	SM-AC-05625-1
5/8"	0.6250	SM-AC-06250-1
11/16"	0.6875	SM-AC-06875-1
3/4"	0.7500	SM-AC-07500-1
13/16"	0.8125	SM-AC-08125-1
7/8"	0.8750	SM-AC-08750-1
15/16"	0.9375	SM-AC-09375-1
["	1.0000	SM-AC-10000-1
1-1/16"	1.0625	SM-AC-10625-1
I" Pilot Pin (7/16")		SM-PP-01
I" Pilot Pin		SM-PP-02

#### Steelmax Cutter Set SM-AC-SET-13-2 2" Depth of Cut, 3/4" Shank

Cutter Diameter	Decimal Equivalent	Part Number
7/16"	0.4375	SM-AC-04375-2
I/2"	0.5000	SM-AC-05000-2
9/16"	0.5625	SM-AC-05625-2
5/8"	0.6250	SM-AC-06250-2
11/16"	0.6875	SM-AC-06875-2
3/4"	0.7500	SM-AC-07500-2
13/16"	0.8125	SM-AC-08125-2
7/8"	0.8750	SM-AC-08750-2
15/16"	0.9375	SM-AC-09375-2
"	1.0000	SM-AC-10000-2
1-1/16"	1.0625	SM-AC-10625-2
2" Pilot Pin (7/16")		SM-PP-03
2" Pilot Pin		SM-PP-04





For ordering and customer service, or to request detailed product information or demonstration videos, contact:

STEELMAX.COM sales@Steelmax.com

Fax: 303-690-9172

## HP60 & HP110

## FULLY PORTABLE PUNCHES PRODUCE SMOOTH PRECISE HOLES IN SECONDS

Available in two models with 35 ton and 47 ton capacities, Steelmax Portable Hydraulic Punches are ideal solutions to speed the production of holes and slots in beam flanges, angle, channel, plates and bar stock. The Double Action design minimizes cycle times and, coupled with high portability, promotes reduced material handling generating highly efficient hole production compared to other processes.

#### **Primary features and benefits:**

- Maximum Hole Diameter 1-1/16" (27 mm)
- Double Action Design Prevents Punch Binding and Speeds Retraction
- Intelligent Control System with Automatic Load Detection and Mode Indicator Light
- Rugged Forged Steel "C" Frame for Strength and Durability
- Fully Portable Punch and Pump Package Reduces Material Handling
- Optional Free Standing Base with Foot Pedal permits Bench Top Operation



Plate Thickness	1/16	1/8	3/16	1/4	5/16	3/8	7/16	I/2	9/16	5/8
HP60'	- / 6	- / 6	- / 6	- / 6	- / 6	I	13/16	3/4	_	-
HPI10 <sup>2</sup>	- / 6	- / 6	- / 6	1-1/16	- / 6	- / 6	- / 6	Ι	7/8	3/4

1. HP 60 maximum plate thickness is 1/2"

2. HP 110 maximum plate thickness is 5/8"



877-833-5629



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The tools of innovation.

# PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

**SM-HP700** Hydraulic Punch Power Pack

#### HP60/HP110 Round Hole Capacities

(60,000 PSI Shear Strength Material)

## PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

TECHNICAL SPECIFICATIONS						
PortableSM-HP60Double-ActionSM-HP60Hydraulic Punch						
Max. throat depth	2-3/8" (60 mm)	4-5/16" (110 mm)				
Max. hole*	I-I/I6" (Ø 27 mm)	I-I/I6" (Ø 27 mm)				
Max. oblong hole	25 x 18 mm	25 x 18 mm				
Punch cycle time	5 sec	8 sec				
Max. plate thickness*	I/2" (I3 mm)	5/8" (16 mm)				
Punch power	35 ton	47 ton				
Working pressure	10,000 psi 10,000 psi					
Weight	44 lbs (20 kg) 77 lbs (35 kg)					

\*See round hole capacity chart on previous page.





Ready to work in both vertical and horizontal positions

Double-Action Hydraulic Power Pack <b>SM-HP700</b>				
Power supply* 230V/50Hz; 115V/60Hz				
Motor power	1500 VV			
Working pressure	10,000 psi			
Pump output	1.5 L/min			
Oil capacity 10 L				

\*Contact Steelmax for other voltage options

877-833-5629



Portable hydraulic power pack with shelf for punch transport SM-HP700



for both machines SM-BLN-000005



Ergonomic location of "quick-connect"

ports at the rear of unit





The tools of innovation. CE

For ordering and customer service, or to request detailed product information or demonstration videos, contact:

sales@Steelmax.com

Fax: 303-690-9172

#### STEELMAX.COM

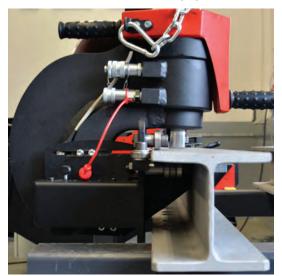
All information is subject to change without notice.

# PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

## **Optional Accessories**



Free Standing Base for Punch SM-ZST-0507-91-00-00-0 With Foot Petal Activation for bench top operation



Wheeled Carriage for Punch SM-PRW-0507-90-00-00-0 Permits smooth and efficient lineal movement along the work piece.

Punches & dies	HOLE DIAMETER	DECIMAL EQUIVALENT	PUNCH PART #	DIE PART#
	5/16	0.3125	SM-HP-P-0313	SM-HP-D-0313
	3/8	0.3750	SM-HP-P-0375	SM-HP-D-0375
	7/16	0.4375	SM-HP-P-0438	SM-HP-D-0438
	1/2	0.5000	SM-HP-P-0500	SM-HP-D-0500
	9/16	0.5625	SM-HP-P-0563	SM-HP-D-0563
	5/8	0.6250	SM-HP-P-0625	SM-HP-D-0625
	11/16	0.6875	SM-HP-P-0688	SM-HP-D-0688
	3/4	0.7500	SM-HP-P-0750	SM-HP-D-0750
	13/16	0.8125	SM-HP-P-0813	SM-HP-D-0813
	7/8	0.8750	SM-HP-P-0875	SM-HP-D-0875
	15/16	0.9375	SM-HP-P-0938	SM-HP-D-0938
		1.0000	SM-HP-P-1000	SM-HP-D-1000
	/ 6	1.0625	SM-HP-P-1063	SM-HP-D-1063
	Slot sizes in stock. Oth	her sizes available by special orde	r.	



#### 877-833-5629



Spring balancers available

135 mit

Util

SM-HP-60

SM-HP-110





#### **Overhead Support for Punch** SM-ZUR-0517-15-00-00-1

Integrated overhead boom support allows for easy manipulation of punch and power pack as single unit.

# METAL CUTTING SAW FROM STEELMAX®

## **S7 XP METAL CUTTING SAW**

## 7" OR 7-1/4" BLADE DIAMETER

#### Pick up a Steelmax saw this morning, and it can pay for itself by the end of the day.

This saw is a money maker, delivering quick cuts with a cool, burr-free finish. The S7XP's powerful 1560 W (13 Amp) motor with overload protection provides a portable, powerful, and practical metal cutting saw.

The S7 XP cuts mild steel up to 1/4" (6 mm) thick – solid material, channel, angle, tube and pipe with a maximum profile depth of 2-1/2" (63 mm). Other materials such as aluminum and stainless steel are cut as easily as plywood. A laser alignment guide reduces set-up time for straight and accurate long cuts which are cool-to-the-touch.

It takes less than 6 seconds to cleanly cut a 4" long piece of 1/4" mild steel. No milling or de-burring necessary with this near-surgical dry-cut technology.

#### **FEATURES**

- Blade guiding laser
- Unique cover collects chips and sparks
- Includes a 7-1/4" TCT mild steel cutting blade
- Includes a carrying case, protective glasses and hearing protection, and extra carbon brushes
- Overload protection
- UL certified

#### Steelmax S7 XP Technical Specifications

Rated Voltage	120V / 60Hz
Motor Power	I,560 W
No Load Motor Speed	3,800 RPM
Arbor	20.0 mm
Saw Blade Diameter	7-1/4" (185 mm) / 7" (180 mm)
Weight, Gross/Net	16 lbs. (7.3 kg) / 12.75 lbs. (5.8 kg)
Max. Plate Thickness	I/4" (6 mm)
Max. Cutting Depth at $90^{\circ}$	2-1/2" (63 mm) Profile
Max. Cutting Depth at $45^\circ$	I-3/8" (36 mm ) Profile
Sound power level	98dB(A)
Sound pressure level	88dB(A)
Part Number	SM-S7 XP



For ordering and customer service, or to request detailed product information or demonstration videos, contact:





## S7XP 04/2019

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877-833-5629

# METAL CUTTING SAW FROM STEELMAX<sup>®</sup>

# **S9XP METAL CUTTING SAW WITH LASER GUIDE**

## **9" BLADE DIAMETER**

#### Pick up a Steelmax saw this morning, and it can pay for itself by the end of the day.

The most powerful saw of this size in the market, the Steelmax S9XP is designed for heavy duty industrial uses and widespread on-site applications including: fabrication, construction, and fire and rescue. Competitively priced, the **S9XP** cuts mild steel, stainless steel and aluminum as easy as cutting plywood.

This versatile saw cuts mild steel up to 1/2" thick and has a depth of cut of 3-1/4" for cutting pipe, channel, angles, car posts, and sheet metal. It delivers a cool-to-the-touch, precise, and burr-free cut in seconds. A laser alignment guide speeds set-up time for accurate, straight and long cuts.

It takes less than 6 seconds to cleanly cut 4" x 1/2" mild steel. No milling or de-burring with a near-surgical dry-cut technology.

#### **FEATURES**

- Blade guiding laser
- Unique cover collects chips and sparks
- Includes a 9" TCT mild steel cutting blade
- · Includes a carrying case, hearing and eye protection, and extra carbon brushes
- UL 745 certified

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S9XP 05/2019

#### **Steelmax S9XP Technical Specifications**

Cutting capacity	3-1/4" profile 1/2" solid
Weight	20 lbs
Blade diameter	9"
Arbor	["
RPM	2300
Beveling/Mitering	Beveling/45°
Motor	15 amps; 120V/1750W 2.3 HP
Depth adjustment	Yes
Chip cover	Included
Applications	Pipe, plate, channel, grating, roof decking, silos, emergency rescue, door posts
Part number	SM-S9XP



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## METAL CUTTING SAW FROM STEELMAX®

## **S14 METAL CUTTING SAW**

## 14" BLADE DIAMETER WITH STABLE CAST IRON BASE

#### Pick up a Steelmax saw this morning, and it can pay for itself by the end of the day.

When a saw is engineered to work as efficiently as the Steelmax S14, your purchase pays immediate dividends. With its precise, fast, clean, burr-free, cool-to-touch cutting, further processing is eliminated, saving you expensive de-burring and further machining. Only Steelmax has a "quick-pipe clamp" built onto its base that allows the S14 to securely hold round material, pipe and tubing so it doesn't come loose or turn when being cut – which could damage the material or blade. A heavy cast iron base reduces vibration to extend blade life and provide more precise cutting.

#### **FEATURES**

- Mitering capability up to 45°
- Powerful 15 amp, 1750W motor
- 1450 rotations per minute
- Stable cast iron base
- Quick adjustment vise with innovative quick-pipe clamp
- Includes hearing and eye protection, and extra set of carbon brushes
- Pipe capacity up to 4-3/4"
- 1" Arbor Bore, chip collection tray
- Includes a 14" TCT mild steel cutting blade
- UL 745 certified

#### **Steelmax SI4 Technical Specifications**

Cutting capacity I" solid	4-3/4" profile
Weight	64 lbs
Blade diameter	4"
Arbor	1"
RPM	1450
Beveling/Mitering	Mitering/45°
Motor	120V / 1750VV 2.3 HP
Depth adjustment	2-position vice
Chip tray	Slide out
Applications	Pipe, plate, channel, conduit, angle iron, metal studs, rebar, tubing, etc.
Part number	SM-SI4 (120V/60Hz)



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# METAL CUTTING SAW BLADES FROM STEELMAX<sup>®</sup>

## **TUNGSTEN CARBIDE & CERMET TIPPED SAW BLADES**

## CUT MILD STEEL, STAINLESS STEEL, ALUMINUM & THIN STEEL FAST & CLEAN

Steelmax metal cutting saw blades are designed to provide maximum performance when cutting ferrous and nonferrous metals. Compared to abrasive cutting wheels, Steelmax metal cutting saw blades cut faster and more accurately. They also impart less heat and produce no hazardous dust. Steelmax blades are offered with Tungsten Carbide Tips (TCT) or Cermet (Ceramic Metallic) Tips, designed for clean cool cutting of mild steel, stainless steel, aluminum and thin steel. They are suitable for cutting plate, grating, angle, channel, tube, pipe and many other materials.

#### **TCT Blades**

Our industry leading Tungsten Carbide Tipped (TCT) saw blades utilize the highest-quality European C6 grade tungsten carbides. With application-specific tooth counts and rake geometry, Steelmax offers a TCT saw blade to cut any material for any job.

#### FEATURES

- High-quality, European C6 Tungsten Carbide Tips
- Clean cuts with fewer sparks and burrs
- Cool cutting
- · Designed with varying tooth counts and rake angles for specific purposes
- Safe alternative to abrasive cutoff wheels

For heavy-duty cutting applications, Steelmax Cermet Tipped saw blades offer superior wear and heat resistance for long cutting life. These blades feature a super-thin kerf for fast, efficient cutting and laser-cut stabilizer slots, reducing dissonant noise and vibration for maximum stability and precise cuts. Our proprietary blade geometry, incorporating wide and shallow tooth pockets, combined with our advanced Triple Chip Grind, provide speed and durability for clean, burr-free cuts in even the hardest alloys.

#### FEATURES



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### **Cermet Tipped Blades**

- · Cermet Tips for high impact and wear resistance
- · Laser-cut body and stabilizer slots for smooth operation
- Triple Chip Grind for rapid cutting
- Stainless Steel versions feature a two-step blade body and a Fluorine coating for added lubricity for reduced friction
- Proprietary blade geometry (wide & shallow tooth pockets) improves blade stability and durability





	Tung	sten Carl	oide Tipped	l Metal Cutting	Saw Blades
Blade Diameter	Part No.	Teeth	Arbor	RPM (MAX)	Applications
7.0"	SM-BL-07	36T	20 mm	3500	Mild Steel (less than 5/16")
7.25"	SM-BL-07-5	36T	20 mm	3500	Mild Steel (less than 5/16")
7.25"	SM-BL-07-5-TS	68T	20 mm	3500	Thin Mild Steel (less than 1/4")
7.25"	SM-BL-07-5-AL	54T	20 mm	3500	Aluminum (up to 3/8")
7.25"	SM-BL-07-5-SS	48T	20 mm	3500	Stainless Steel (less than 1/8")
7.25"	SM-BL-07-5-WD	40T	20 mm	3500	Wood Cutting (framing with wood cover)
8.0"	SM-BL-08	48T	5/8"	3700	Mild Steel (less than 5/16")
9.0"	SM-BL-09	48T	1.0"	2700	Mild Steel (less than 1/2")
9.0"	SM-BL-09-TS	80T	1.0"	2700	Thin Mild Steel (less than 1/4")
9.0"	SM-BL-09-AL	80T	1.0"	2700	Aluminum (up to 3/8")
9.0"	SM-BL-09-SS	54T	1.0"	2700	Stainless Steel (less than 1/8")
12.0"	SM-BL-12	60T	1.0"	1000	Mild Steel (less than 1")
14.0"	SM-BL-014	66T	1.0"	1450	Mild Steel (less than I")
14.0"	SM-BL-014-TS	90T	1.0"	1450	Thin Mild Steel (less than 1/4")
14.0"	SM-BL-014-AL	100T	1.0"	1450	Aluminum (up to 3/8")
14.0"	SM-BL-014-SS	90T	1.0"	1450	Stainless Steel (less than 1/4")

Cermet Tipped Metal Cutting Saw Blades					
Blade Diameter	Part No.	Teeth	Arbor	RPM (MAX)	Applications
7.25"	SM-BL-CT-0725-MS	36T	20 mm	5500	Mild Steel (less than 5/16")
7.25"	SM-BL-CT-0725-SS	64T	20 mm	5500	Stainless Steel (less than 1/8")
9.0"	SM-BL-CT-09-MS	44T	1.0"	3500	Mild Steel (less than I/2")
9.0"	SM-BL-CT-09-SS	76T	1.0"	3500	Stainless Steel (less than 1/8")
14.0"	SM-BL-CT-14-MS	64T	1.0"	1500	Mild Steel (less than I")
14.0"	SM-BL-CT-14-SS	110T	1.0"	1500	Stainless Steel (less than 1/4")

Steelmax Blades fit other manufacturers saws: See below for cross brand compatibility

ALL 14" Saw blades:

Steelmax S14, Evolution EVOSAW380 | RAGE2, DeWalt DW872, Fein Slugger MCCS14, Milwaukee 6190-20, MK Morse CSM14MB, Ridgid 614. ALL 7-1/4" Saw blades:

Steelmax S7xp, Evolution EVOSAW180HD | RAGE-B | EVOSAW185HD | S185CCS | RAGE4 Saws , Fein Slugger MCSL07Standard Circular Saws\*. ALL 9" Saw blades:

Steelmax S9xp, Evolution EVOSAW230, MK Morse CSM9MB, Fein Slugger MCSL09 / MCSL09-2



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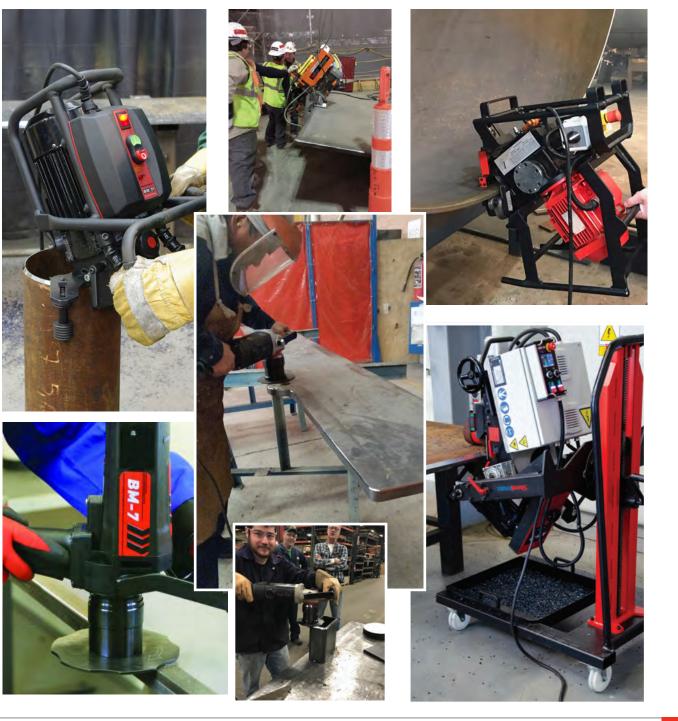
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# **PLATE & PIPE BEVELING SOLUTIONS**



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## COMPACT PORTABLE BEVELING MACHINE FROM STEELMAX®

## **BM7 MULTIPURPOSE BEVELING TOOL**

## **BEVEL, DEBURR, CHAMFER & RADIUS EDGES**

The Steelmax BM7 is a compact, multipurpose milling tool that can bevel, deburr, chamfer and radius mill edges of plate, pipe, tubes, and holes. The machine can be used on flat, curved and radius cut edges and can countersink holes as small as 1-3/8" (35 mm) diameter. The BM7 is an efficient solution for quick and consistent beveled edges for weld preparation, rounding off edges for paint and coating preparation, removing burrs and removing sharp edges on workpieces. It is ideal for cleaning out holes and cut outs.

#### BENEFITS

- Increased production. Up to 3x faster than grinding
- Consistent high-quality finish produced by rotary milling process
- Improved safety compared to abrasive grinding wheels which can shatter
- · Produces no hazardous dust
- No distortion or heat input to the part.
- Requires no secondary grinding process to remove heat affected zones

#### **FEATURES**

- Rotary milling head with 4 piece tool holder for indexable TiN coated carbide inserts
- 45-degree bevel with variable width up to ¼" (7 mm)
- Radius milling inserts available in sizes 2, 3, 4 and 5 mm
- Compact ergonomic design with cushioned handle
- Special anti-loading inserts available for beveling aluminum and other soft materials
- Optional Anti-Abrasion Guide Plate for smoother operation of aluminum milling

ONE Universal Milling Head

Bevel width up to 7 mm







	-
adius edge milling 2, R3, R4 or R5	

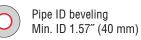
Contour edge beveling & radius milling

Min plate thickness

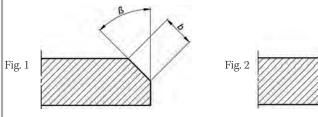
1.5 mm

Min. ID 1.38″ (35 mm) Pipe OD beveling

Countersinking



<b>BM7</b> Technical Specifications	
Bower Supply	110-120 V, 50–60 Hz or
Power Supply	220-240 V, 50–60 Hz
Spindle Speed (Without Load)	6500 rpm
Maximum Bevel Width (b)	0.30" (7mm); Fig. I
Bevel Angle (ß, depending on milling head)	45° (standard); 30° (optional);
Bever Angle (b, depending on mining flead)	Fig. I
Minimum Diameter for Countersinking	I.38" (35mm)
Dimensions (L $\times$ W $\times$ H)	13" × 5.6" × 12.5"
	(327 x 142 x 319 mm)
Weight (Without Milling Head)	13 lbs (5.8 kg)
	SM-BM7 (120V/50-60Hz)
Part Numbers	SM-BM7-230 (230V/50-60Hz)



#### Standard set includes:

- BM7 beveler including milling head 45° w/o inserts
- Plastic box
- Special wrench
- Torx T15 screwdriver
- Screw grease (5 g)
- Operator's Manual



#### Accessories:

SM-GLVV-0540-08-00-00-0	45° Milling Head for Beveling & Radius Edge Mill
SM-GLW-0540-09-00-00-0	30° Milling Head for Beveling
SM-PLY-000391	Beveling Insert for Steel (4 Required)
SM-PLY-000423	Beveling Insert for Aluminium (4 Required)
SM-NKL-0540-15-00-00-0	Anti-Abrasion Plate for Aluminum Milling
SM-PLY-000360	Radius Insert R2 (4 Required)
SM-PLY-000159	Radius Insert R3 (4 Required)
SM-PLY-000160	Radius Insert R4 (4 Required)
SM-PLY-000161	Radius Insert R5 (4 Required)
SM-UST-0509-16-00-00-0	Radius Edge Milling Depth Setting Tool

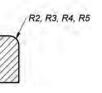
Spare and Wearing Par	·ts:
SM-SRB-000289	Insert Screw
SM-RLK-0540-08-02-00-0	Guiding roller
SM-SMR-000005	Screw grease (5 g)
SM-SCZ-000009	Carbon brush for 115V / 230V



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SM-UST-0509-16-00-00-0







Radius edge milling



Contour edge beveling and radius milling



Plate beveling



Pipe beveling



Countersinking





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## PORTABLE BEVELING MACHINE FROM STEELMAX®

## **BM16 PORTABLE BEVELER**

## BEVEL OR RADIUS FLAT, CURVED OR ROLLED PLATE

The Steelmax **BM16** is a light-weight portable beveling machine for use on flat, curved or rolled plate. It can also perform O.D. and I.D. bevels on pipe, including deburring, and can chamfer and countersink holes with a minimum diameter of 1-9/16" (40 mm). Interchangeable bevel milling heads, utilizing indexable carbide inserts, are available for bevel angles of 22.5°, 30°, 37.5°, 45° and 60°. A radius milling head is also available with indexable carbide inserts to radius plate edges with a perfect 2, 3, 4 and 5 mm radius

The **BM16** is equipped with a simple bevel depth adjustment, overload protection and electronic speed control for use on a variety of materials, including steel and aluminum. The BM16 is highly efficient for edge weld preparation and for producing radiused plate edges for optimal paint and coating adhesion. The compact design makes the BM16 an excellent tool for many fabrication applications.

#### **FEATURES**

- Highly efficient beveling machine up to 10 times faster than grinding
- Produces no hazardous dust, greatly improving working environment
- Guide plate and roller guides insure consistent, highly accurate bevel angles
- Lightweight ergonomic design reduces worker fatigue
- · Variable speed control permits adjustment of milling head for use on various grades of steel and aluminum
- Versatile tool which can be used to bevel or radius mill straight edges, contours and holes
- Ideal solution for radius milling for paint and coating preparation
- · Optional anti-abrasion plate and special inserts available for aluminum milling





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#### **BM16** Technical Specifications

110-120V/50-60Hz or 220-240V/50-60Hz 2200W 3.0 HP 1800 - 5850 rpm
2200W 3.0 HP
1800 - 5850 rpm
1000 - 3030 ipin
b=5/8" (16 mm) see figure 1
22.5, 30, 37.5, 45, 60, degre
22.3, 30, 37.3, <del>4</del> 3, 60, degre
I/8" (I.5 mm)
ca I-9/I6" (40 mm)
R2, R3, R4, R5 see figure 2
23" x 6.1" x 9.4"
(585 x 156 x 238 mm)
22 lbs (10 kg)
SM-BM16 (110-120V/50-6
SM-BM16-230 (220-240/50

#### Accessories to be chosen by customer

SM-GLW-000011	Radius Milling Head W/ Depth Setting Tool
SM-PLY-000360	Radius Insert R2 (4 Required)
SM-PLY-000159	Radius Insert R3 (4 Required)
SM-PLY-000160	Radius Insert R4 (4 Required)
SM-PLY-000161	Radius Insert R5 (4 Required)
SM-UST-0509-16-00-00-0	Radius Edge Milling Depth Setting Tool

SM-GLW-000010	Beveling Milling Head 22.5°
SM-GLW-000005	Beveling Milling Head 30°
SM-GLW-000009	Beveling Milling Head 37.5°
SM-GLW-000006	Beveling Milling Head 45°
SM-GLW-000007	Beveling Milling Head 60°
SM-PLY-000395	Beveling Insert for Steel (5 Required)
SM-PLY-000195	Beveling Insert for Aluminum (5 Required)
SM-NKL-0509-05-00-00-0	Anti-Abrasion Plate for Aluminum Milling

SM-PRW-0509-07-00-00-0 Pipe Beveling Attachment SM-ZBD-0509-12-00-00-0 Small Workpiece Machining Table

#### Spare and wearing parts:

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SM-SRB-000289	Mounting Screw for Radius Milling Head
SM-SRB-000290	Mounting Screw for Beveling Milling
Head SM-RLK-0509-03	3-00-00-0 Guiding Roller



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## PORTABLE BEVELING MACHINE FROM STEELMAX®

## **BM20 Plus PORTABLE BEVELER**

## HEAVY-DUTY TOOL PRODUCES HIGH-QUALITY MACHINED BEVELS

The Steelmax BM20 Plus is a portable, heavy-duty hand-operated beveling machine designed to mill accurate high-quality bevels for weld preparation on plate and pipe. Utilizing a rotary milling head and ten four-sided indexable carbide inserts, the BM20 Plus will create precise bevel angles that improve fit-up time, eliminate weld defects and reduce welding consumables.

Unlike thermal cutting for weld preparation, the BM20 Plus produces no heat-affected zone or distortion of the work piece. This simple-to-operate machine can be carried anywhere and will eliminate costly material handling associated with moving plates around the shop to stationary burning and milling machines.

Automatic thermal overload protection circuitry protects the motor from premature failure, providing a reliable tool that can withstand the toughest jobs.

#### FEATURES

- Portable, heavy-duty machine
- Equipped with guide rolls for easy operation
- Automatic motor overload protection
- Fitted with two milling heads for smooth and efficient operation
- Adjustable bevel angle, 15°- 60°

APPLICATIONS





Max. bevel width 13/16" (21 mm)

Top beveling



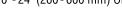
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Plate Facing

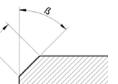
(Optional accessory required)



10" - 24" (260 - 600 mm) OD



BM20 Plus Technical Specific	
Voltage	115V/ 60Hz or 230V/ 50Hz
Power	1800 W Induction Motor
Spindle Speed	2820 rpm
Tooling	Two milling heads with 10 sq
Max Bevel Width	13/16" (21 mm) (see fig. 1)
Bevel Angle	15° - 60° (see fig. 1) 0° (see f
Weight	45 lbs (20.5 Kg)



Part Number

ß 15° 30° 20.5 mm Ь 21 mm

BM20+-230 (230V/ 50Hz)

Figure 1: Bevel dimensions - maximum achievable bevel width depending on the bevel angle (multiple 1/4" passes)





2 rotary milling heads, each holding five 4-sided indexable inserts Cutting insert (| piece)

Part No. SM-PLY-000282 10 inserts required

**Optional Accessories:** 



Pipe beveling attachment 6" - 12" (150 - 300 mm) Part No. SM-ZSP-0075-31-00-00-0 10" - 24" (260 - 600 mm)

Plate beveling



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Bevel angles

15°-60°

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BM20+09/2019

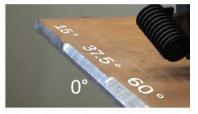
tions	10			
	11	0	n	C
	-	10		9

uare cutting inserts

Facing Attachment)

SM-BM20+ (115V/ 60Hz) SM-





45°	60°
21 mm	20.5 mm







Plate facing (option)



Pipe beveling (option)



Large Pipe beveling attachment Part No. SM-ZSP-0075-31-00-00-1



Facing attachment (0°) enables beveling at zero degrees Part No. SM-ZSP-0075-32-00-00-1

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## PORTABLE BEVELING MACHINE FROM STEELMAX®

## **BM21 PORTABLE BEVELING MACHINE**

## PRODUCE HIGH-QUALITY MACHINED BEVELS EFFICIENTLY WITH THIS PORTABLE ERGONOMIC POWER TOOL

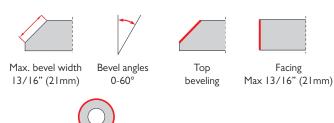
Reduce your costs and lay the foundation for high-quality welds with the Steelmax BM21. Inaccurate bevels and poor weld preparation are often the root cause of weld defects and excessive welding costs. This machine utilizes a high-speed rotary milling head with ten carbide inserts to produce precise bevel angles from 0 to 60 degrees that dramatically improve fit up and all subsequent welding operations.

Unlike flame or plasma cut weld preparation, the BM21 produces no heat affected zone or distortion of the work piece. This portable tool can be carried anywhere and eliminates time consuming and costly material handling associated with moving plates around the shop to stationary burning and milling machines.

The **BM21** features an ergonomic design that includes vibration dampening technology to protect the operator and the machine during heavy continuous operation. Automatic thermal overload protection circuitry protects the motor from premature failure, providing a reliable tool that can withstand the toughest jobs. The BM21 can be used on plate and pipe without any additional accessories.

#### **FEATURES:**

- Single milling head with 10 carbide inserts produces weldready bevels quickly and more efficiently with less operator effort
- Fast and easy exchange of carbide inserts minimizes down time
- Working range from 0 to 60 degrees with continuous angle adjustment
- Simple bevel angle and bevel width set up
- Vibration insulation protects both the operator and the machine electronics
- Universal guide plate requires no additional accessories for beveling both plate and pipe





Vibration dampers oduce smooth operation





BM21 Technical Specification	
Voltage	115V 60 Hz or 230V 50 Hz
Power	1800 W Induction Motor
Spindle Speed	2820 RPM
Tooling	Integrated Milling Head with 10 Square
Bevel Angle	0° - 60° Continuous Angle Adjustmen
Max Bevel Width	13/16" (21 mm)
Weight	43 lbs (20 Kg)
Part Number	SM-BM21 (115V/60Hz) SM-BM21-230 (230V/50Hz)

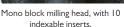




Plate facing

Single universal guide plate for beveling both plates, and for pipes ø 6-12" (150-300 mm)







Enhanced Vibration Dampening

vibration technology for more comfortable operation and extended machine life. Testing indicates that this new anti-vibration system reduces vibration by up to 37%

Continuous angle adjustment from 0 to 60 degrees.

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BM 21 09/2019



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# PORTABLE BEVELING MACHINE FROM STEELMAX®

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e Carbide Inserts	ľ
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Plate beveling





The BM21 incorporates industry leading anti-

over comparable machines.



Pipe beveling

#### **Optional equipment:**

Replacement cutting inserts -10 required Part No. SM-PLY-000282



An optional guide is needed for larger pipes with a diameter of 10-24" (260-600 mm) Part No. SM-PRW-0461-22-00-00-0







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## STAINLESS STEEL PLATE & PIPE BEVELER FROM STEELMAX®

## **BM21SS**

## PRODUCE HIGH-QUALITY MACHINED BEVELS IN STAINLESS STEEL WITH THIS PORTABLE ERGONOMIC POWER TOOL

The Steelmax BM21 SS beveling machine is a customized version of our industry-leading BM21 beveling machine specifically designed for use on stainless steel plate and pipe. Inaccurate bevels and poor weld preparation often lead to weld defects and excessive welding costs. With expensive stainless steels, accurate weld preparation is even more important. The BM21SS utilizes a rotary milling head with ten carbide inserts to produce precise bevel angles from 0 to 60 degrees that dramatically improve fit up and all subsequent welding operations. Designed specifically for stainless steel applications, the BM21SS utilizes a lower speed motor to improve machining and all contact surfaces are made of stainless steel to eliminate carbon contamination of the stainless steel work piece.

Unlike flame or plasma cut weld preparation, the BM21SS produces no heat affected zone or distortion of the work piece. This portable tool can be carried anywhere and eliminates time consuming and costly material handling associated with moving plates around the shop to stationary burning and milling machines.

The BM21SS features an ergonomic design that includes vibration dampening technology to protect the operator and the machine during heavy continuous operation. Automatic thermal overload protection circuitry protects the motor from premature failure, providing a reliable tool that can withstand the toughest jobs. The **BM21SS** can be used

on plate and pipe without any additional accessories.

#### FEATURES

- All stainless steel contact surfaces to eliminate carbon contamination
- Single milling head using 10 indexable carbide inserts produces weld-ready bevels quickly and efficiently with low operator effort
- · Fast and easy exchange of inserts with no need for special adjustment
- Working range from 0 to 60 degrees with continuous angle adjustment
- Simple bevel angle and bevel width setup
- Advanced vibration isolation protects both the operator and the machine
- Universal guide plate requires no additional accessories for beveling both plate and pipe





Top beveling

Facing off



Pipe beveling OD 6 - 12" (150-300 mm) OD 10 - 14" (260-600 mm) (option)



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<b>BM21 SS Technical Specifications</b>		
Voltage	115V 60 Hz or 230V 50 Hz	
Power	1800 W Induction Motor	
Spindle Speed	I 560 RPM	
Tooling	Integrated Milling Head with 10 Squar Carbide Inserts	
Bevel Angle	0° - 60° Continuous Angle Adjustmen	
Max Bevel Width	13/16" (21 mm)	
Weight	51 lbs (23 Kg)	
Part Number	SM-BM21-SS (115V/60Hz)	

SM-BM21-SS-230 (230V/50Hz)

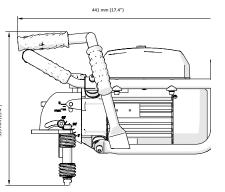




Plate facing

Plate beveling



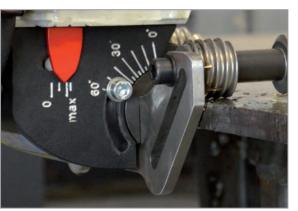
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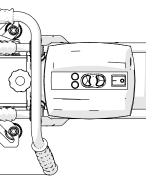
BM21SS 09/2019

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Continuous angle adjustment from 0 to 60 degrees





Standard universal guide plate made of Stainless Steel for beveling both plates and pipes Ø 6-12" (150-300 mm)





Pipe beveling



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## **ABM28 AUTO-FEED PLATE BEVELING MACHINE**

## INNOVATIVE, AUTO-FEED BEVELING MACHINE BEVELS TOP, FACE AND BOTTOM EDGES WITH ONE SET UP

The Steelmax ABM28 is the latest generation in automatic portable beveling machines with the ability to face plates (0 degrees) and produce top and bottom side bevels at any angle between +60 degrees and -60 degrees from a single setup. With its unique self-indexing guide rail system, the ABM28 can bevel plates in both travel directions, significantly improving machining times and overall productivity.

An optional cladding-removal setup is available for the ABM28 which dramatically simplifies preparing clad materials for welding

#### FEATURES:

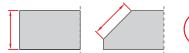
- Auto-feed beveler with overload protection produces consistent high-quality bevels with minimal operator fatigue
- Continuously adjustable bevel angle between +60 and -60 degrees enables beveling of both sides of the plate without turning the plate over - significantly enhancing safety and productivity
- Maximum bevel width (depending on the beveled angle) from 1-1/8" to 1-3/8" (28-35 mm)
- Variable feed speed accommodates many types of metals and thicknesses up to 1-3/8" (35 mm) as standard or optionally up to 2-3/4" (70 mm)
- Bevels in both directions reducing cycle times and improving productivity
- Optional cladding-removal attachment simplifies preparing clad materials for welding
- Quick setup and simple operation
- Multiple guide rails can be connected to bevel long plates



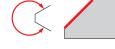


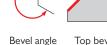


Beveling greater lengths of plate is accomplished with additional sections of guide tracks.



I-3/8" (35 mm)







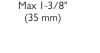
Top beveling

Facing Bottom beveling

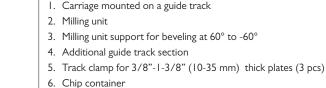
Cladding remova

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Milling head

SM-GLW-000013

Standard shipping set:

Voltage

Power

Bevel angle (b) Maximum bevel width (b)

Feed speed

Weight

Plate thickness

Spindle speed (no load)

- 7. Set of tools
- 8. Clamp for 3/8"-1-3/8" (10-35 mm) thick plates (2 pcs)

**ABM28 TECHNICAL SPECIFICATIONS** 

1600 W

2780 rpm

60 to  $-60^{\circ}$ 

I-3/8" (35 mm)

173 lbs. (70.5kg)

~220-240 V, 50-60 Hz

10"-20"/minute (250 mm-500 mm/min)

I-3/8" (35 mm); 2-3/4" (70 mm) option

Replacement cutting inserts

- 7 required

SM-PLY-000282

- Wooden box
- Operator's Manual

#### Accessories and optional equipment:

SM-GLW-000013 Milling head (7 inserts required) SM-PLY-000282 Cutting Insert (1 piece), sold 10pcs/box SM-SGM-0152-04-01-00-2 Guide track L=47-1/4" (1200 mm) SM-UST-0152-04-04-00-3 Track clamp for 3/8" - 1-3/8" (10-35 mm) thick plates SM-ZCS-0152-04-02-00-1 Clamp for 3/8" - 1-3/8" (10-35 mm) thick plates SM-ZCS-0152-15-02-00-0 Clamp for 1-3/8" to 2-3/4" (36-70 mm) thick plates SM-WSP-0518-04-00-00-0 Milling unit support for beveling I-3/8" to 2-3/4" (36-70 mm) thick plates at 0° to 60° (incl. facing) SM-WSP-0518-05-00-00-0 Milling unit support for beveling 1-3/8" to 2-3/4" (36-70 mm) thick plates at 0° to -60° SM-WSP-0518-07-01-00-0 12° Angle attachment with height adjustment



For ordering and customer service, or to request detailed product information or demonstration videos, contact:

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# PLATE & PIPE BEVELER FROM STEELMAX<sup>®</sup>

## **ABM1218 FR Double-Sided Plate/Pipe Beveling Machine**

## THE MOST POWERFUL SELF-FEEDING BEVELING MACHINE IN ITS CLASS

The Steelmax ABM1218 is a portable beveling machine capable of producing weld-ready bevels on flat plates of any shearable material up to 100,000 psi tensile strength. The ABM1218 FR uses a shearing process that is silent and fast. A powerful 3 horsepower electric motor drives the machine at speeds up to 8.5 feet per minute, making it the most powerful machine in its class. The machine can produce a 1/2" (12 mm) wide bevel in a single pass and can produce a maximum 3/4" (18 mm) wide bevel on plates or round tubes from 1/4" (6 mm) to 1-9/16" (40 mm) thick in multiple passes.

A 30° bevel angle attachment is included with the ABM1218 FR and interchangeable bevel angle attachments are available for 22.5°, 25°, 30°, 35°, 37.5° and 45° bevels. The machine is easily inverted to bevel the underside of the plate – eliminating the need to flip the material – improving operational safety and increasing productivity.

The ABM1218 FR produces no smoke or dust and almost no noise. Bevels are produced without thermal distortion and the material is weld-ready without additional grinding to remove dross, slag or heat affected zone (HAZ).

#### **FEATURES**

- 3 horsepower motor
- · Self-feeding for consistent bevel geometry from end-to-end
- 180° inversion allows for quick and easy creation of double-sided bevels - dramatically reducing material handling costs and improving safety.
- Shearing cutting wheels are long lasting, quiet and fast beveling up to 8.5 ft/min
- Functions as a traveling machine with the trolley, or as a stationary machine
- · Portable machine that can easily be moved throughout the shop
- Great machine for creating weld coupons
- · Bevel pipe and round tubes 4" in diameter and larger



Bevel width

up to 3/4"

(18 mm)







Min plate thickness 6 mm Max plate thickness 1-9/16" (40 mm)

Min plate width 2-3/16" (55 mm)

Тор bevelina

Bottom bevelina

Pipe OD beveling Min. ID 4" (100 mm)



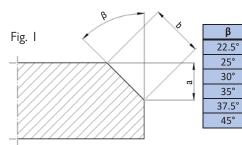






# PLATE & PIPE BEVELER FROM STEELMAX®

ABM 1218 FR Tech	nnical Specifications
Voltage	480V, 3 Phase/230V, 3 Phase (50-60 Hz)
Power	2,200 Watts
Spindle Speed	9 RPM
Bevel Angle Range (β, Fig. I)	22.5°, 25°, 30°, 35°, 37.5°, 45°
Maximum Bevel Width (b, Fig. 1)	3/4" (18 mm)
Maximum Bevel in a Single Pass	I/2" (I2 mm)
Minimum Plate Thickness	I/4" (6 mm)
Maximum Plate Thickness	I-9/I6" (40 mm)
Minimum Plate Width	2-3/16" (55 mm)
Cutting Speed	8.5 ft/min (2.6 m/min)
Minimum Pipe ID	4" (100 mm)
Weight	1 44 lbs (65 Kg)
Part Number	SM-ABM-1218 FR/SM-ABM-1218 FR-230



#### Standard Set Includes:

- ABM 1218 Beveling machine
- 30° Bevel angle attachment
- 1 cutting wheel for mild steel
- Cutter extraction tool
- Flat wrenches:
- 12-13 mm, 18-19 mm, 24-26 mm
- Hex wrenches: 5 mm and 6 mm
- Operator's manual

#### **Consumables and Angle Attachments**

- SM-ABM-1218-CW-MS
- SM-ABM-1218-CW-SS
- SM-ABM-1218-CW-AL



- SM-ABM-1218-AVD-22.5 22.5° Bevel angle attachment
- SM-ABM-1218-AVD-25.0
- SM-ABM-1218-AVD-30.0 • SM-ABM-1218-AVD-35.0
- SM-ABM-1218-AVD-37.5
- SM-ABM-1218-AVD-45.0
- SM-ABM-TR



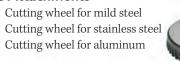
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Max b	Max a
3/4" (18 mm)	5/8" (16.6 mm)
3/4" (18 mm)	5/8" (16.3 mm)
3/4" (18 mm)	9/16" (15.6 mm)
3/4" (18 mm)	9/16" (14.7 mm)
3/4" (18 mm)	9/16" (14.3 mm)
3/4" (18 mm)	1/2" (12.7 mm)







25° Bevel angle attachment 30° Bevel angle attachment 35° Bevel angle attachment

37.5° Bevel angle attachment 45° Bevel angle attachment









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Fax: 303-690-9172

## PLATE BEVELING MACHINE FROM STEELMAX®

## **ABM50 AUTO-FEED DOUBLE-SIDED BEVELER**

## SELF-PROPELLED. INVERTIBLE BEVELING MACHINE REDUCES MATERIAL HANDLING

The **Steelmax ABM50** produces accurate, high-quality, machined bevels on plates from 5/16" to 3-1/8" (8-80 mm) thick using a high-speed rotary milling head with replaceable carbide inserts. The machine features an infinitely adjustable bevel angle between 15 and 60 degrees and is capable of producing bevels up to 2" (50 mm) wide. The ABM50 incorporates onboard spindle speed adjustment to optimally bevel

ferrous and non-ferrous materials and excels in beveling high tensile strength materials up to 450,000 PSI.

Root face dimensions remain accurate and repeatable from plate to plate, promoting better fit-up and consistent weld geometry. The milled finish is produced without thermal distortion and is ready to weld without additional grinding to remove dross, slag or heat affected zone (HAZ).

The ABM50 employs a unique trolley system which allows the machine to quickly invert and bevel the bottom side of the plate - eliminating the need to flip the material improving operational safety and increasing productivity. The trolley system also features vertical height

adjustment and floating compensation for uneven floors.

- The operator can easily pre-set and adjust the following parameters:
- bevel angle
- bevel width
- bevel depth
- optimal depth of cut for each pass
- spindle speed
- travel speed
- spindle load

vel width

/8" (66 mm) / 15°

Bevel angles ' (50 mm) / 45° top 15° - 60°

bottom 15° - 60°







Botton

beveling

Top beveling



Min plate thickness 5/16" (8 mm)

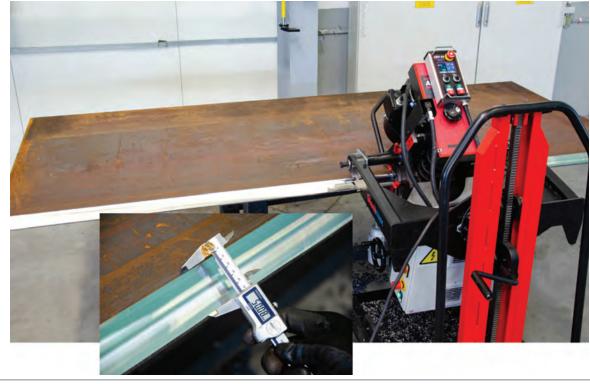
# PLATE BEVELING MACHINE FROM STEELMAX<sup>®</sup>

#### **FEATURES**

- Self-feeding for consistent bevel geometry from end-to-end
- · Real-time measurement and on-screen display of exact bevel geometry and milling parameters
- Built-in overload protection • Variable spindle speed for milling ferrous and non-ferrous materials including high tensile strength materials • Floating trolley compensates for uneven floors
- 180° inversion allows for quick and easy creation of double-sided bevels.

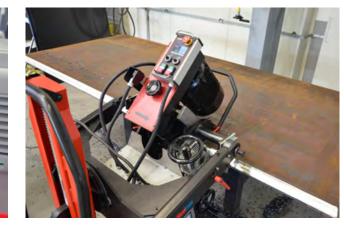


The ABM50 creates bevels with a maximum bevel width of 2" (50 mm) at 45 degrees.



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- Rotary milling head with carbide inserts produces an accurate, high-quality finish without thermal distortion that is weld ready
- Portable Machine that can easily be moved throughout the shop



The ABM50 features a unique remote pendant control with LCD display showing the exact bevel geometry being produced.

## PLATE BEVELING MACHINE FROM STEELMAX®

Voltage	380 - 480V 3 Phase 50-60Hz Switchable Voltage
Power	8.7 HP (6.5 kW)
Spindle Speed (no load)	300-800 RPM
Feed Speed	0"-47" ipm
Bevel Angle (β, Fig. I)	15°-60° infintiely variable
Maximum Bevel Width (b, Fig. 1)	Varies with angle setting 2-5/8" (66 mm) at 15° 2" (50 mm) at 45°
Minimum Plate Dimensions	24" long × 10" wide
Maximum Depth of Cut per pass (d, Fig. 1)	1/4" (6 mm)
Plate Thickness Range	5/16" - 3-1/8" (8 -80 mm)
Weight	700 Lbs (320 Kg)
Part Number	SM-ABM50

ABN	ABM50 Bevel Capacities (Fig. 1)		
β	b	# of passes	
۱5°	2.60" (66 mm)	Recommended in 4 passes	
20°	2.32" (59 mm)	Recommended in 4 passes	
25°	2.16" (55 mm)	Recommended in 4 passes	
30°	2.05" (52 mm)	Recommended in 5 passes	
35°	2.00" (50 mm)	Recommended in 5 passes	
40°	2.00" (50 mm)	Recommended in 5 passes	
45°	2.00" (50 mm)	Recommended in 5 passes	
50°	2.00" (50 mm)	Recommended in 5 passes	
55°	2.00" (50 mm)	Recommended in 5 passes	
60°	2.00" (50 mm)	Recommended in 5 passes	

**Accessories:** 

Cutting insert I piece (8 required, sold 10 per box) tem number: SM-PLY-000282

Milling head (8 cutting inserts required)

Product code: SM-GLW-000033

Cutting Insert for High Tensile Strength Material Product Code: SM-PLY-000591 (sold 10pcs/box)

#### Standard kit includes:

- Beveling machine with milling head and 8 cutting inserts
- Wooden box with base and mounting brackets
- Special wrench
- 10 mm T-handle hex wrench with ball tip

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- 3.5 mm hex wrench
- T15 torx screwdriver
- Grease for screws
- · Operator's manual

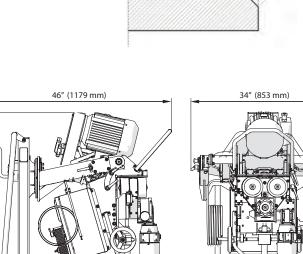


Fig. I





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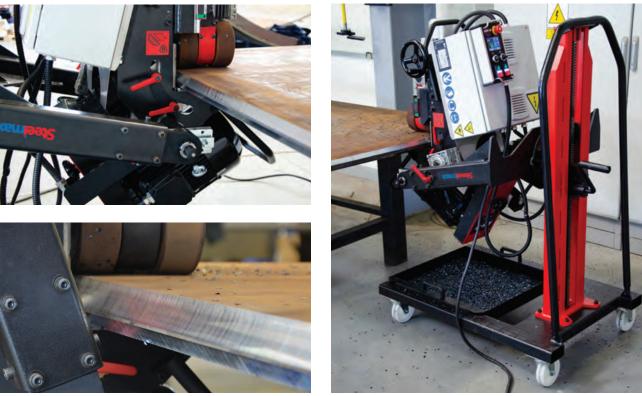
All information is subject to change without notice.

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The **ABM50** can create double-sided bevels eliminating the need to flip the material – improving safety and productivity.





The remote pendant allows the operator to optimally adjust spindle and travel speeds for beveling ferrous and non-ferrous materials – up to 450,00 psi tensile strength.





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ABM50 09/2019

# PLATE BEVELING MACHINE FROM STEELMAX®

## STATIONARY BEVELING MACHINE FROM STEELMAX®

## **SBM500 STATIONARY BEVELING MACHINE**

## MACHINE STRAIGHT EDGES OF DIFFERENT SIZE WORKPIECES

The Steelmax SBM500 is a robust and efficient solution for beveling and deburring steel plate, angle, square/rectangular tubing and pipe. With its high-speed rotary milling head and variable auto feed, the SBM 500 produces accurately milled weld preparations, improves welding efficiency and reduces costs. Machined bevel angles are accurate and consistent, making plate and root gap fit-up extremely precise and easy. Accurate weld preparation reduces over welding, defect repair, production time, significantly reducing production costs.

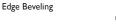
#### **FEATURES**

- Powerful 7,500 Watt electric motor for continuous operation
- · Variable milling head and auto-feed speeds to optimally bevel both ferrous and non-ferrous materials
- Continuously adjustable bevel angle from 15 to 60 degrees
- · Simple depth of cut adjustment
- High-speed rotary milling head with 10 replaceable carbide inserts produces a clean, milled surface free of thermal distortion with no heat affected zone
- Multiple cutting insert designs for optimal performance on different materials
- Versatile table top operation permits hand feeding of small plates, square/rectangular tubing, pipe, angle iron and round stock
- Optional table extensions accommodate longer material
- Produces bevel widths up to 1-3/16" (30 mm)
- Plate thickness up to 4" (100 mm)







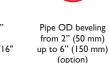


Bevel width up to 1-3/16" . (30 mm)

Bevel angles 15° - 60° continuous adjustment

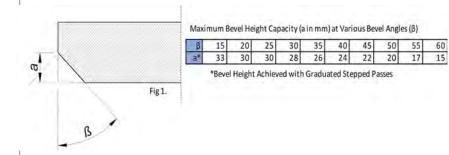
Workpiece height from 1/8" (3 mm) up to 4" (100 mm)

Min. workpiece width 2" (50 mm) workpiece width I-3/16" . (30 mm) (option) Min. workpiece length 6" (150 mm)



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DD beveling	

SBM500 Technical Specifications		
	-	
Power	7500 W	
Spindle Speed	500 - 2920 RPM	
Feed Rate	0.5 - 10 feet/min	
	(0.2 - 3.3 m/min)	
Bevel Angle Range (β, Figure 1)	15° - 60°	
Maximum Bevel Width	1-3/16" (30 mm)	
(b, Figure 1)		
Maximum Bevel Depth Per Pass	1/4" (6 mm)	
(d, Figure 1)		
Minimum Plate Length	6" (150 mm)	
Minimum Plate Width - Standard	2" (50 mm)	
With optional accessory	1-3/16" (30 mm)	
Plate Thickness Range	1/8" - 4"	
	(3 - 100 mm)	
Maximum Material Weight	220 lbs (100 Kg)	
	2" - 6"	
Round Stock Range	(50 -150 mm)	
Maximum Square/Rectangular	4" x 4"	
Tubing Dimensions	(100 x 100 mm)	
Minimum Angle Profile	2" x 2"	
	(50 x 50 mm)	
Voltage	480V, 3 Phase, 50/60 Hz	
Weight	1,910 lbs (865 Kg)	
Part Number	SM-SBM500	



#### **STANDARD SET INCLUDES:**

- SBM500
- Set of Tools
- Operator's Manual (English)

#### **ACCESSORIES:**

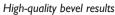
- SM-GLW-000030 Milling head
- SM-PLY-000396 Cutting insert for steel (10 pcs required)
- SM-PLY-000408 Cutting insert for aluminum (10 pcs required)
- SM-PLY-000397 Cutting insert for Stainless Steel (10 pcs required)

SM-STL-0573-35-00-00-0 Auxiliary table for long workpieces SM-PRK-0573-36-00-00-0 Pipe beveling attachment for pipes 2-6" (50-150 mm) OD **SM-PRK-0573-38-00-00-0** Narrow plate attachment for 1-3/16" to 2" (30 - 50 mm) wide plates. Minimum plate thickness 13/32" (10 mm)

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SBM500 05/2018





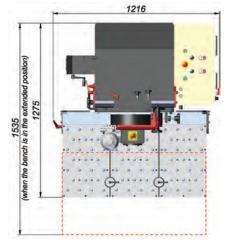
Easily machine various materials



Auxiliary tables to accommodate long workpieces



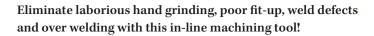
OD pipe beveling



### PORTABLE BEVELING MACHINE FROM STEELMAX®

### **PB5 ID MOUNTED BEVELING MACHINE**

### RAPIDLY PRODUCE ACCURATE WELD PREPARATION FOR TUBE, PIPE AND BOILER REPAIR



Extremely productive when full penetration welding is required, the Steelmax PB5 will produce accurate weld preparation within seconds. Creating highly repeatable and consistent fit-up, this tool dramatically reduces cycle times and improves work flow. By utilizing a self-centering mandrel which mounts internally to the open end of the tube or pipe, the PB5 can be rapidly deployed from one pipe to another.

Available with a pneumatic or electric motor, the PB5 can be mounted in pipe or tubing with a minimum inside diameter of 1.25" (32 mm) and can bevel outside diameters up to 4.5" (114 mm). Designed with three tool holders, the PB5 will simultaneously perform three different machining operations milling the OD Bevel, Root Face and an I.D. counterbore to create consistent wall thickness around the joint and ensure complete weld penetration.

#### **Optional Accessories include:**

- An extension set to accommodate pipe or tubing up to 5 ½" (140 mm) O.D.
- Boiler Repair Kit for working on water walls and in restricted spaces.

#### **FEATURES**

- Bevel, face and ID counterbore the pipe or tubing simultaneously
- Available with pneumatic or electric motor options
- Variety of tool bits available for creating various bevel angles for V and J grove preparation
- Self-Centering ID Mounted Mandrel









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### **PB5 PIPE BEVELING MACHINE**

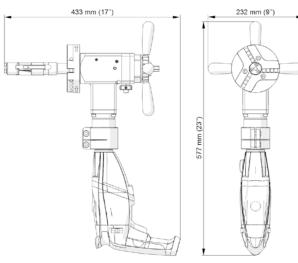
	PB5-E / PB5-P Technical Specifications			
rbs-r rechnical specifications				
	PB5-E	PB5-P		
Motor Drive	Electric	Pneumatic		
Motor Power	1,100 Wats	800 Wats		
Speed Range	0-300 RPM	90 RPM		
Power Supply Options	110-120V/50-60 Hz or 220-240V/50-60 Hz NA			
Air Requirements	NA 56.5 CFM (1600 L/min) / 87 PSI (0.6 Mpa)			
Operating Weight (with Motor)	24 lbs (11 kg)	22 lbs (10 kg)		
Min/Max Pipe Sizes (Min ID/Max OD) - Standard Mandrel	1.26" ID/4.49" OD (32 mm ID/114 mm OD)			
Min/Max Pipe Sizes (Min ID/Max ID) - Small Mandrel	I" ID/1.25 ID (25mm ID/33mm ID)			
Min/Max Pipe Sizes (Min OD/Max OD) - Large Spindle Disc	4.5" OD/5.5" OD (114mm OD/140mm OD)			

Maximum Allowable Pipe Schedule										
Nominal Pipe Diameter	1"	/4"	/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"
Maximum Pipe Schedule	SCH 40S/40/STD	SCH 80/80XS	SCH 160	XXS	SCH 160	SCH 160	SCH 80/80XS	SCH 120	SCH 40S/40/STD*	SCH 40S/40/STD*
* Requires optional 5 1/2" (140 mm) spindle disk set.										

	Maximum Allowable Pipe/Tube Wall Thickness				
Dia / Tuba Cina Danas	I" - 1.25" ID	1.25" ID to 4.5" OD	4.5" - 5" OD*	5" - 5.2" OD*	5.2" - 5.5" OD*
Pipe/Tube Size Range	(25 mm to 33mm ID)	(32 mm ID to 114 mm OD)	(114 mm to 124 mm OD)	(124 mm to 132 mm OD)	(132 mm to 140 mm OD)
Maximum Wall Thickness	0.5" (12 mm)	0.5" (12 mm)	0.39" (10 mm)	0.31" (8 mm)	0.24" (6 mm)

\* Requires optional 5 1/2" (140 mm) spindle disk set.

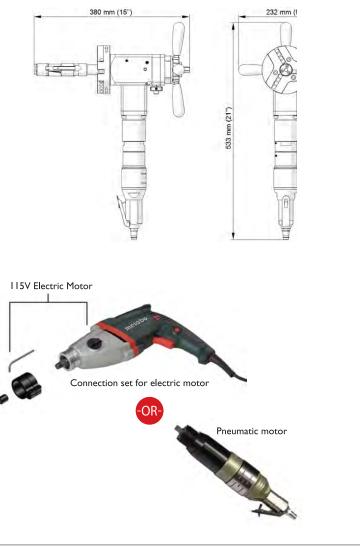
#### **Dimensions**





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All information is subject to change without notice.

### PB5 PIPE BEVELING MACHINE FROM STEELMAX®

### **Optional Accessories**

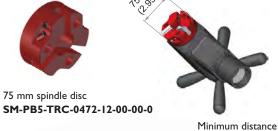
Boiler Repair Accessories – For work on water walls and restricted spaces.



75 mm spindle disc

Ratchet wrench

SM-PB5-KLC-000045



between tubes is 75mm (2.95")



Extension set for OD Ø up to 5.5" (140 mm) including 140 mm spindle disc and jaw blocks (7, 8, 9) - 3 sets SM-ZST-0472-15-00-00-0

### **Additional Equipment**

ltem	Description
SM-PB5-BE 1100	PB5 Electric Motor 115V
SM-PB5-SLN-000176	PB5 Electric Motor 230V
SM-PB5-ZST-0472-11-00-00-1	PB5 Clamping Ring Set for Electric Motor
SM-PB5-KLC-000045	PB5 Ratchet Wrench
SM-PB5-NPD-0472-03-00-00-0	PB5 Pneumatic Motor
SM-PB5-TRC-0472-12-00-00-0	PB5 Spindle Disk
SM-PB5-UKS-0472-10-00-00-0	PB5 Beveling Head Unit
SM-PB5-ZST-0472-15-00-00-0	PB5 Extension Block Set
SM-PB5-TRZ-0472-21-00-00-0	PB5 Small Mandrel



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E

## PORTABLE BEVELING MACHINE FROM STEELMAX®

Part Number F0-30 F0-30 SM-NOZ-000031 0° facing tool bit 25 B30 NOZ-000032 30° bevelling tool bit\* B30d B30 B30d SM-NOZ-000033 30° bevelling tool bit\*\* SM- B375 NOZ-000036 37.5° bevelling tool bit\* B375 B375d B375d SM-NOZ-000037 37.5° bevelling tool bit\*\* 25 25 B45 NOZ-000040 45° bevelling tool bit\* B45d B45d NOZ-000041 45° bevelling tool bit\*\*

For pipe diameters between 2.2" and 3.26" (56 mm and 83 mm), both long and short beveling tool bits can be used in conjunction with 0 degree facing tool bit.

 $\ast$  For pipe diameters over 2.2" (56 mm), short beveling tool bit must be used in conjunction with 0° facing tool bit

conjunction with 0° facing tool bit



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Part Number

SM- NOZ-000052	IC15-40 15° internal counterbore tool bit	
SM- NOZ-000053	ICI5-40 I5° internal counterbore tool bit – for diameters over 2.2" (56 mm)	25 25 25
SM- NOZ-000058	J10-R6 10° J-bevelling tool bit	J10-R6
SM- NOZ-000057	J15-R2 15° J-bevelling tool bit	25 25
SM- NOZ-000059	J20-R8 20° J-bevelling tool bit	J20-R8



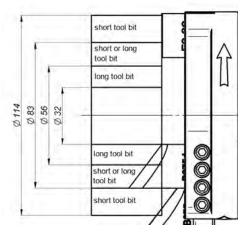






Wide range of tool bits for various applications.

*When using 0° facing tool bit in conjunction with* beveling tool bit, either long or short beveling tool bit is used depending on pipe diameter.



### PORTABLE BEVELING MACHINE FROM STEELMAX®

### **PBI0 PIPE BEVELING MACHINE**

### PNEUMATIC OR ELECTRIC TO MEET USERS SITE CONDITIONS

The Steelmax **PB10** pipe beveling machine is designed for portable use in pipe machining operations. It can be used efficiently by a single operator. It is a heavy-duty I.D. mounted pipe beveler. Self-centering expandable mandrels provide quick and proper alignment to a pipe or a tube prior to machining operations.

The **PB10** is able to bevel, face off, chamfer and counterbore, making all these weld prep operations quick and simple.

Depending on users preferences and site conditions, the **PB10** machine can be operated with a high-quality powerful pneumatic motor or a high-torque electric motor.

### FEATURES

- Bevel, face off and counterbore simultaneously
- Standard and custom made tool bits available
- Available in pneumatic or electric versions
- J-Bevel tools available for high welding efficiency

Pneumatic: SM-PBI0

The tools of innovation.



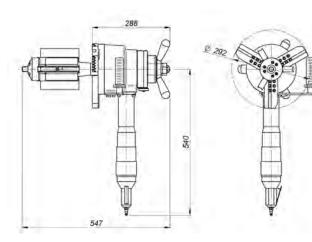
PB10 Technical Specifications		
Pipe machining range	Min I.D. – 1.6" (40 mm) Max I.D. – 10-9/16" (269 m Wall thickness: up to .60" ( Minimum Pipe Length: 7-1/2	
Part number	SM-PBI0	
Pneumatic motor	1500W 2.0 HP	
Power requirements	1750 l/min (61.7 cfm) at 63	
Headstock speed range	5 to 18 rpm	
Part number	SM-PBEI0	
Electric motor	1800W	
Supply	115V/60Hz or 230V/50Hz	

14 to 32 rpm

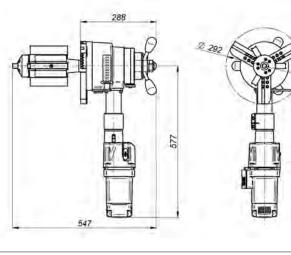
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Headstock speed range

#### Pneumatic: SM-PB10



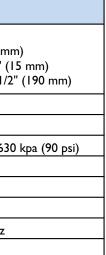
Electric: SM-PBE10



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### PORTABLE BEVELING MACHINE FROM STEELMAX®

#### **PART NUMBERS & TOOL BITS CODES**

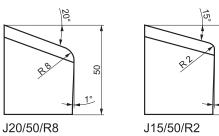
SM-NOZ-000019	30° Beveling tool bit, height 1.5" (37 mm)	
SM-NOZ-000018	30° Beveling tool bit, height 1.7" (44 mm)	
SM-NOZ-000020	37.5° Beveling tool bit, height 1.7" (44 mm)	
SM-NOZ-000015	37.5° Beveling tool bit, height 2.1" (54 mm)	
SM-NOZ-000021	45° Beveling tool bit, height 2.1" (54 mm)	
SM-NOZ-000017	0° Facing tool bit, height 1.2" (30 mm)	
SM-NOZ-000023	30° Internal beveling tool bit, height 1.7" (44 mm)	
SM-NOZ-000025	30° Internal beveling tool bit, height 2.1″ (54 mm)	
SM-NOZ-000024	37.5° Internal beveling tool bit, height 2.1" (54 mm)	
SM-NOZ-000026	<b>5</b> 45° Internal beveling tool bit, height 2.1" (54 mm)	
SM-NOZ-000001	I 15° Internal calibration tool bit, height 2.2" (55 mm)	
SM-NOZ-000022	<b>22</b> I5° J-beveling tool bit, height 50mm, radius 0.08" (2 mm)	
SM-NOZ-000016	<b>016</b> 20° J-beveling tool bit, height 50mm, radius 0.31" (8 mm)	

#### Standard shipping set:

- PB10 (without tool bits)
- Wooden crate
- · Set of jaws and blocks
- Set of adjustment tools
- Coolant container
- Operator's manual
- Self-centering expandable Mandrel for pipe I.D. Ø 3-5/16 - 10-9/16" (84 – 269 mm) SM-ZSP-0200-04-00-00-1

## PORTABLE BEVELING MACHINE FROM STEELMAX®

### J-Beveling Tool Bits



Additional Equipment:		
SM-PRK-0447-00-00-00-2	Flange facing attachment with cutt 20" (90 - 508 mm), delivered in a	
SM-PRK-0463-00-00-00-1	Out of round attachment set inclu ID Ø 5" to 11-5/8" (126 - 296 mm	
SM-ZSP-0200-05-00-00-2	Self-centering expandable Mandre 3-3/8" (38 – 86 mm)	
SM-ZST-0200-13-00-00-2	Extension set for ID Ø up to 14" tool holders and jaws 7-12, deliver	
SM-ZST-0200-12-00-00-0	Electric motor set 230V	
SM-ZST-0200-12-00-00-1	Electric motor set 115V US plug	
SM-ZSP-0200-03-00-00-0	Air Motor Assembly	





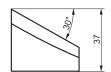




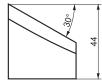


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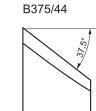
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B30/37



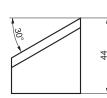
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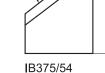


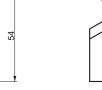
### **Internal Beveling Tool Bits**



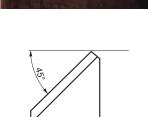


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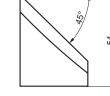
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IB45/54

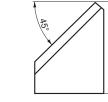
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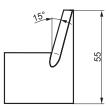




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### ID Chamfer Tool Bit



IC15/55

FacingTool Bit

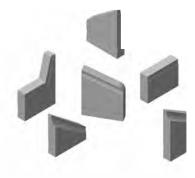
F0/30

Custom made versions of toolbits are available on request.



m), delivered in a metal b el for pipe I.D. Ø 1-1/2 –

(355 mm) includes 3 ste ered in metal box













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### PORTABLE PIPE BEVELING MACHINES FROM STEELMAX®

### MPB26 Pro & APB32 Pro PIPE BEVELING SYSTEMS

### MANUAL & AUTOMATIC SYSTEMS PRODUCE ACCURATE WELD PREPARATIONS IN A SINGLE PASS

The Steelmax MPB26 Pro and APB32 Pro pipe beveling systems produce consistent, high-quality weld preparations in a single pass. With manual or automatic feed, the MPB26 Pro and APB32 Pro easily mount to the outside edge of pipe or tubing and can create a 13/16" maximum bevel width. By attaching to the pipe's circumference, the MPB26 Pro and APB32 Pro automatically compensate for out-of-round pipe and tubing and produce a consistent land dimension and bevel angle around the pipe; giving the user highly repeatable and consistent fit-up. Outfitted with a heavy-duty, industrial motor with variable speed control, the MPB26 Pro and APB32 Pro turn at the optimal speed for efficient beveling of ferrous and non-ferrous pipes.

The MPB26 Pro is manually operated and can mount to pipe or tubing with a minimum diameter of 6" and can bevel outside diameters up to 26" and 1/8" up to 3/4" wall thicknesses.

The APB32 Pro automatically feeds itself around the pipe and can mount to pipe or tubing with a minimum diameter of 10" and can bevel outside diameters up to 32". With an optional attachment, the **APB-32 Pro** can bevel pipe of any diameter over 32", making this an incredibly versatile solution.



**MPB26 Pro Manual Pipe Beveling Machine** 



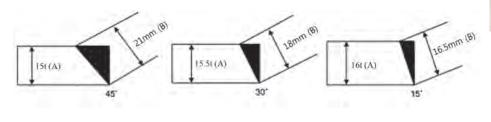
**APB32 Pro** Automatic Pipe Beveling Machine

### **FEATURES**

- Simple set-up and operation
- · Accurate bevel depth and bevel angle adjustment
- Complete weld preparation in a single pass (at 45°, maximum 15 mm bevel width)
- Suitable for pipe thickness from 1/8" (3 mm) up to 3/4" (20 mm)
- · Both machines can be used to bevel plate as well
- · Variable speed motor for optimized milling of various materials

## PORTABLE PIPE BEVELING MACHINES FROM STEELMAX®

Technical Specifications			
	MPB-26	APB-32	
Power Supply	115 VAC 60Hz 2,400W	115 VAC 60Hz 2,400W	
Pipe Diameter Range	6"-26" (150-660 mm)	10" and Larger (>250 mm)	
Bevel Angle Range	0-45°	0-45°	
Maximum Bevel Depth @ 45 degrees (A)	5/8" (15 mm)	5/8" (15 mm)	
Maximum Bevel Width (B)	13/16" (21 mm)	13/16" (21 mm)	
Minimum Pipe Wall Thickness	1/8" (3 mm)	I/8" (3 mm)	
Maximum Pipe Wall Thickness	3/4" (20 mm)	3/4" (20 mm)	
Weight	41 lbs (18.6 kg)	90 lbs (41 kg)	



### Accessories

SM-PB-AP1020-LD

Spare & Wearing	Parts
SM-PB-CP2100-CA	Cutter Head As
	MPB-26 Pro (wi
SM PB CM2100 10	Cutting Incorts

SM-PB-CM2100-10	Cutting Inserts (Package
SM-PB-CP2100-09	Cutter Wedge for APB-3
SM-PB-CP2100-08	Cutter Insert Screw (eac





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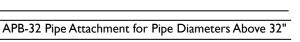
MP/AP 11/2017

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Easily set the bevel depth





ssembly for APB-32 Pro and vithout inserts) of 10) 32 Pro and MPB-26 Pro (each) ch)





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### HIGH-SPEED PIPE BEVELING SYSTEM FROM STEELMAX®

### **PBM 1000 PIPE BEVELING MACHINE**

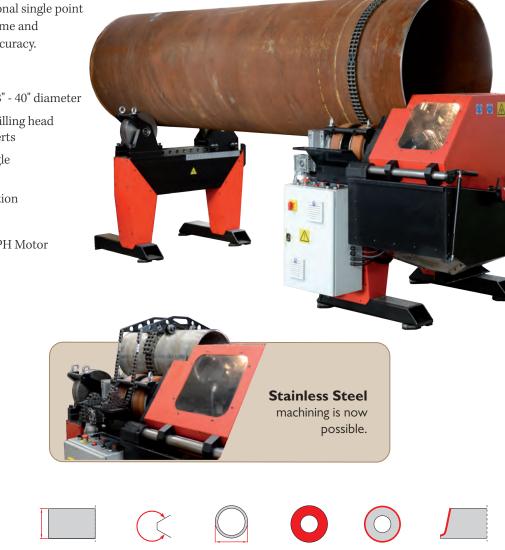
### PRODUCE EFFICIENT AND ACCURATE WELD PREPARATION WITH HIGH-SPEED ROTARY MILLING HEAD WITH REPLACEABLE CUTTING INSERTS FOR LONG-TERM PERFORMANCE

The Steelmax **PBM 1000** is designed for beveling and facing pipes, tanks or tubes with diameters ranging from 8" – 40" (200 mm - 1000 mm). It is capable of machining bevel widths up to  $1-3/4^{\circ}$  (45 mm) within a range of angles from  $0^{\circ}$  –  $60^{\circ}$ . An exclusive "J" groove beveling attachment is also available. With its high-speed rotary milling

head, PBM 1000 produces accurate bevels in a fraction of the time required by traditional single point machining. This saves time and money and improves accuracy.

#### **FEATURES**

- Bevel pipe between 8" 40" diameter
- High-speed rotary milling head with replaceable inserts
- Adjustable bevel angle between 0° - 60°
- · J-groove beveling option
- 11-ton capacity
- Powerful 230 Volt 3 PH Motor





width I-3/4"

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thickness 1/4"

Bevel angle from 0° to 60°

Pipe OD 8"-40"

Facing

Pipe J-groove

Pipe OD beveling

beveling





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## HIGH-SPEED PIPE BEVELING SYSTEM FROM STEELMAX®

PBM 1000 TE	CHNICAL SPECIFICATION
Power supply	I~ 208–230 V, 50/60 Hz 3~ 208–230 V, 50/60 Hz
External pipe diameter range	8"- 40" (200-1000 mm) pipes longer than 830 mm; 8"- 23-5/8" (200-600 mm) pipes of 15-3/4" - 31-11/16" (400-830 mm) lengt
Maximum allowed pipe weight	13,200 lbs. (6000 kgs) with standard rollers. 22,000 lbs. (10,000 kgs) with optional steel r
Min. pipe thickness	3/16" (5 mm)
Pipe fixing	mechanical with chain
Feed rate	4" – 43-5/16" (100-1100 mm/min)
Beveling angle range	0-60° degree continuous angle adjustment
Max OD bevel width	I-3/4" (45 mm)
Beveling type "J"	YES - option
"J" type beveling radius	0.24" (6 mm) or 0.31" (8 mm)

#### Accessories and optional equipment

- SM-GLW-000013 Standard Milling head (7 inserts required)
- SM-PLY-000282 Cutting inserts for beveling
- SM-GLW-000014 J-groove R6 milling head (6 inserts R6 required)
- SM-PLY-000422 Cutting insert for J-groove R6 end preparation
- SM-GLW-000015 J-groove R8 milling head (5 inserts R8 required) • SM-PLY-000424 Cutting insert for J-groove R8 end preparation
- SM-ZST-0436-25-00-00-0 Stainless Steel Set
- SM-WSP-0436-24-00-00-0 Oval Pipe Tracking Attachment



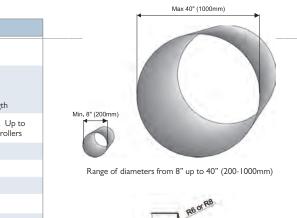


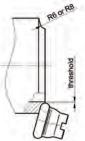
User-friendly control panel

Optional heavy-duty pipe support with 11-ton capacity



#### 877-833-5629





R6 & R8 J-groove available with optional milling heads



Clamping device for short pipes of 15-3/4" – 32-11/16" length



Shields and internal lighting increase safety and comfort of the operator



Adjustable chain (ø 8" – 40") ensures positive axial rotation



Optional Oval Pipe Tracking Attachment allows out of round pipe beveling







### LIFTING MAGNETS FROM STEELMAX<sup>®</sup>

### MAX LIFTER LIFTING MAGNETS

### FLAT OR ROUND MATERIAL HANDLING

The Steelmax Max Lifter series of magnets are compact, self-contained lifting magnets that use permanent magnets to maintain holding power indefinitely. Because they require no electric power, they can be used where electric power is not readily available and free of the restriction of power cords.

Max Lifter magnets are safe and efficient. The magnets lift, transport and release the load rapidly with the simple motion of a lever in a single operation. Once activated, a spring-loaded device blocks the engagement lever preventing any accidental deactivation. Each Max Lifter magnet is tested at three times the recommended load.

Max Lifter magnets are robust and reliable. The rotor, the only moving part, has its fulcrum on ball bearings and doesn't make any physical contact during rotation. All steel parts are nickel coated to prevent rust formation and improve component life. Max Lifter magnets will operate "maintenance free" over long periods of time.

#### FEATURES

- Available in 550lbs, 1100lbs, 2200lbs, 4400lbs (250kg, 500kg, 1000kg, 2000 kg) lifting capacity
- Self-contained, permanent magnet
- · No electrical power required
- Substantial weight capacity safety factor
- · Self-locking safety block prevents accidental deactivation
- Intelligent magnet design activates magnet only when there is sufficient holding power
- Mono block, rust-proof nickel-coated design
- Maintenance free









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MAXLIFT 09/2019

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Part



**Activation and Deactivation Phases** 

The simplicity of a single move.

Simply turning the handle,

the Max Lifter is activated

or deactivated. A self-locking

device prevents any possible

accidental deactivation of

the handle when in the

MAG position.



	Part number	Model
	SM-ML125	Max Lifter 12
	SM-ML250	Max Lifter 25
	SM-ML500	Max Lifter 50
14.	SM-ML1000	Max Lifter 10







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#### Load Characteristic Plate

Max Ib	load kg	Min thi in	ckness mm	Max I in	ength mm
275	125	3/4	20	39	1000
550	250	3/4	20	59	1500
1100	500	I	25	78	2000
2200	1000	1-1/2	40	118	3000
4400	2000	2	55	118	3000
	<b>Ib</b> 275 550 1100 2200	275 125   550 250   1100 500   2200 1000	lb kg in   275 125 3/4   550 250 3/4   1100 500 1   2200 1000 1-1/2	lb kg in mm   275 125 3/4 20   550 250 3/4 20   1100 500 1 25   2200 1000 1-1/2 40	lb kg in mm in   275 125 3/4 20 39   550 250 3/4 20 59   1100 500 1 25 78   2200 1000 1-1/2 40 118

#### Load Characteristic Round Stock

Part number	Model	Max I Ib	oad kg	Min thi in	ckness mm	Max in	length mm	Max di in	ameter mm
SM-ML125	Max Lifter 125	110	50	3/8	10	39	1000	12	300
SM-ML250	Max Lifter 250	220	100	3/8	10	59	1500	12	300
SM-ML500	Max Lifter 500	440	200	9/16	15	78	2000	16	400
SM-ML1000	Max Lifter 1000	880	400	I	25	118	3000	18	450
SM-ML2000	Max Lifter 2000	1760	800	I-3/8	35	118	3000	24	600

#### **Technical Data** Weight Width Height Length lb kg in in mm mm in mm 8.1 3.7 4.8 122 3 79 5.6 142 7.4 3 14.3 6.4 189 79 5.6 142 33 15 9.8 4.2 106 7.4 189 249 71.6 32.5 13.4 342 5.25 133 8.6 219 18 457 6.5 166 11.5 293

Other sizes and applications available on special order.



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### THIN GAUGE LIFTING MAGNETS FROM STEELMAX®

### MAX LIFTER THIN GAUGE MAGNETS

### SAFE. EFFICIENT HANDLING OF FLAT OR ROUND THIN STEEL

The Steelmax Max Lifter TG series are the ideal solution for handling thin steel on any jobsite and operate maintenacne free over long periods of time.

The Max Lifter TG has been meticulously designed to handle the needs inherit in working with thin steel. Our engineering has created a special design of the polar surface that when coupled with a delicate balancing of magnetic weight in the stator and rotor creates concentrated magnetic flux in a closer distance. This means more magnetic force in a much smaller area and more strength for handling thin steel. Like the standard Max Lifter line the magnets are safe and efficient and require no electrcity. The magnets lift, transport and release the load rapidly with the simple motion of a lever using a single operator. Once activated, a spring-loaded device blocks the maneuvering lever preventing any accidental deactivation. The Max Lfiter TG maintains uniform magnetic strength over the entire contact area.

#### **FEATURES**

- Available in 2 Models 330, 660 lbs (150, 300, kg) lifting capacity
- High power rare earth magnets
- No electrical power required
- Special treatment on all surfaces for corrosion & wear protection
- Intelligent magnet design activates magnet only when there is sufficient holding power
- · Mono block, rust-proof nickel-coated design
- Maintenance free

### SM-ML150-TG



Simply turning the handle, the Max Lifter TG is activated or deactivated. A self-locking device prevents any possible accidental deactivation of the handle when in the MAG position.



SM-ML300-TG

		Load Ch	naracteristic		2
-	Model	Max Load	Min. Thinkness	Max Length	Max Diameter
Plate	ML150-TG	330 lbs (150kg)	8mm	59" (1500mm)	NA
-	ML300-TG	660 lbs (300kg)	10mm	78" (2000mm)	NA
Round	ML150-TG	132 lbs (60kg)	8mm	59"(1500mm)	9.4" (240mm)
ML300-T	ML300-TG	264 lbs (120kg)	10mm	78"(2000mm)	11.4" (290mm)

## TRACK CUTTING MACHINE FROM STEELMAX<sup>®</sup>

### **TORCH RUNNER TRACK CUTTING MACHINE**

### DIGITAL CONTROL PRODUCES ACCURATE HIGH-QUALITY CUTS AND BEVELS

The **Steelmax**<sup>\*</sup> **Torch Runner** is a state-of-the-art, digitally controlled track torch which maintains precise and stable travel speeds that produce accurate cuts and bevels with oxy-fuel or plasma. The machine can be used on any standard 6" V-grooved track. Plate cutting and weld preparation can now be done with a high degree of precision. Quality cuts and bevels produced with Torch Runner reduce fit-up and grinding time and lay the foundation for a high quality weld.

The **Torch Runner** is available in two versions: a standard version for oxy-fuel cutting applications (up to 59 ipm) and a high-speed version for plasma cutting applications (up to 118 ipm).

### FEATURES

- 1-3/8" (35 mm) Machine Barrel Torch Holder with precise angle setting up to 45 degrees
- Rigid heat-proof design
- · Advanced Speed Control with electronic closed loop feedback for stable speed regulation
- LED Display with readout of actual and preset speed
- Two-wheel drive with braking
- · Free wheel clutch system features rapid disengagement of drive mechanism for repositioning
- Interconnecting rails for long cuts and bevels
- Optional gas manifolds for two or three hose torches
- Optional circle cutting attachment





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### TORCH RUNNER FROM STEELMAX®





Torch Runner Technical Specifications			
Part Number	SM-WC-TR or SM-WC-TR-230 SM-WC-TR-PLASMA or SM-WC-TR-PLASMA-230		
Power supply	115-230V / 50-60 Hz		
Travel Speeds	SM-WC-TR : 0-59 IPM (0-150 CPM)   SM-WC-TR-Plasma: 0-118 IPM (0-292 CPM)		
Dimensions (LxWxH)	16-13/16" (18-5/8") x 7-7/16" (25-13/16") x 7-1/16" 427 mm (473) x 189 mm (655) x 180 mm		
Weight	37 lbs (16.8 kg)		

#### Standard kit includes:

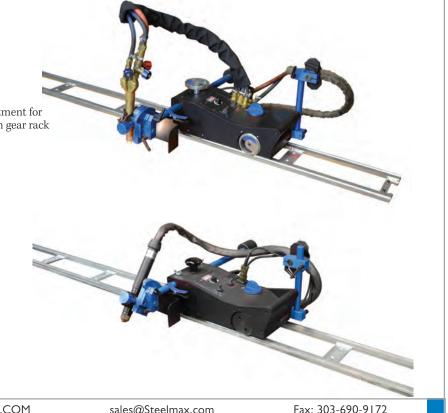
#### SM-WC-TR:

- Torch Runner drive unit
- Power cord
- Counterweight
- Geared Rack 22.8 (580 mm) long
- Machine barrel torch holder with precise angle adjustment for torch barrel diameter of 1-3/8" (35 mm) with 32 pitch gear rack

#### SM-WC-TR-PLASMA:

- Torch Runner drive unit
- Power cord
- Counterweight
- Geared Rack 22.8 (580mm) long
- Trigger contact relay for Plasma
- Cable anchor support
- Torch holder with precise bevel angle settings.

Note: Torch, gas manifold and rail sold separately



## TRACK CUTTING MACHINE FROM STEELMAX®

#### **ACCESSORIES:**

#### 1. Track Assembly

Track assemblies can interconnect to form various lengths Track specification: length 72" (1800 mm), "V" Groove center-line: 6" (152 mm) Product Code: SM-TRO-0475-13-00-00-0

#### 2. Standard Gas Manifolds

Standard Gas Manifolds act as strain relief for torch holder and allow for easy connection for gas supply hoses

2 Hose-Gas Manifold - Product Code: SM-RZD-0475-68-00-00-0 3 Hose-Gas Manifold - Product Code: SM-RZD-0475-67-00-00-0

#### 3. Quick Acting Manifolds

Quick Acting Manifolds act as strain relief for the torch holder and permit quick on/off of gas supply.

Quick Action 2 Hose Gas Manifold – Product Code: SM-RZD-0475-40-00-01-0 Quick Action 3x3 Hose Gas Manifold - Product Code: SM-RZD-0475-43-00-01-0

#### **OPTIONAL ACCESSORIES:**

#### 4. Standard Torch Holder-

Enables torch attachment and rough angle setting for torch barrel diameters from 1-1/8" to 1-3/8 " (28-35 mm). Product Code: SM-UCW-0475-28-00-00-0

5. Torch Holder with Precise Bevel Angle Setting Enables torch attachment with precise angle setting and quick up & down adjustment for torch barrel diameters from 1-1/8" to 1-3/8" (28-35 mm) Product Code: SM-UCW-0475-08-00-00-0

#### 6. Machine Barrel Torch Holder with Precise Bevel Angle Setting Enables machine barrel torch attachment for Machine Barrel Torch with diameter 1-3/8" (35 mm) with 32-pitch gear Product Code: SM-UCW-0475-42-00-00-0

#### 7. Machine Barrel Torch Holder Enables machine barrel torch attachment (quick change of the height and rough angle setting) Holder diameter 1-3/8" (35 mm) with 32-pitch gear Product Code: SM-UCW-0475-29-00-00-0

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### TORCH RUNNER FROM STEELMAX®

8. Sliding Rack Holder Sliding rack holder enables various torch holder attachments

Product Code: SM-UCW-0475-15-00-00-0

9. Circle Cutting Attachment Enables circle cutting with radius between 9.5" and 19.5" (240 and 500 mm) Product Code: SM-CYR-0475-22-00-00-0

10. Large Counterweight Product Code: SM-PWG-0475-10-00-00-0

11. 39" (1000 mm) Geared Rack Enables extended reach for the torch holder Product Code: SM-RAM-0475-23-00-00-0

12. Cable Anchor

Anchors power cable and fuel hoses to relieve stress on the torch holder Product Code: SM-PDT-0475-34-00-00-0

13. Roller Support

Stabilizes carriage and provides constant torch standoff Product Code: SM-PDT-0475-26-00-00-0

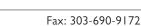




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A 4-wheel drive system and permanent magnetic base provide powerful traction, smooth travel and stable speeds. A digital speed readout insures repeatability of the weld procedure and produces weld bead geometry that is exact to the required specifications, reducing costly over welding and substantially decreasing filler metal usage.

A quick disconnect torch holder allows the torch to be easily swapped from one side of the **Eco Runner** to the other, enabling the operator to weld the entire workpiece from end to end.

An optional power supply can be used to plug the carriage into a 115V - 230V power source.

#### **FEATURES**

- · Compact and lightweight design for welding in narrow spaces
- Convenient 18 V DC battery supply
- Optional 115V 230V line power supply
- Versatile quick disconnect torch clamp for easy placement of the torch on either side of the carriage
- Digital LED display for pre-setting travel speed
- · Low-battery indicator
- Built-in guide rollers





Optional 115–230 V power supply

Continuous welding

Horizontal speed 0—43 in/min (0-120 cm/min)

0—43 in/min (0-110 cm/min)

Vertical speed



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## FILLET WELDING TRACTOR FROM STEELMAX®

### **Eco Runner Portable Fillet Welding Carriage**

### THE POWER TOOL FOR WELDING COMPACT BATTERY-POWERED TRAVEL WELDING CARRIAGE

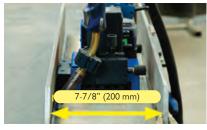
The **Eco Runner** is a battery-powered welding travel carriage designed to produce continuous fillet welds using MIG/MAG torches in the flat or vertical welding positions. Providing mechanized motion of the welding torch, the Eco Runner allows for continuous welding which increases operating factor and weld deposition rates.



Easily weld from end to end



Torch placement on either side



Welding in narrow spaces



Welding in narrow spaces



Eco Runner Technical Specifications			
	18V DC, 5.2Ah		
Voltage	I I 5 -230∨, 50-60 Hz		
	(w/ optional power adaptor)		
Power	25 Watts		
Welding Position	2F & 3F		
Torch Diamter Range	5/8" - 7/8" (16 - 22 mm)		
Min. Workpiece Thickness	3/16" (4 mm)		
Horizontal Pulling Force	34 Lbs		
Vertical Pulling Force	22.5 Lbs		
Horizontal Speed	0 - 43 in/min (0 - 110 cm/min)		
Vertical Speed	0 - 39 in/min (0 - 100 cm/min)		
Weight (w/out battery)	22 lbs (7.6 Kg)		
Part Number	SM-WC-ER		

#### **Optional Accessories:**



Auxiliary magnet blocks SM-ZST-0655-09-00-00-0



• Torch holder

• 4 mm hex wrench • 3 mm hex wrench

Operator's Manual

• Battery

Cable anchor SM-UCW-0655-08-00-00-0

**Standard Set Includes:** 

• Eco Runner Welding Carriage

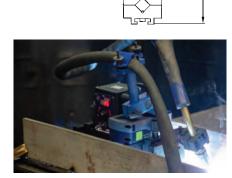
Battery Charger Sold Separately

# Battery charger

5.2 Ah Battery

SM-WC-LR-BAT

SM-LDW-000006 (230 V, 50/60 Hz) SM-WC-LR-CHARGER (115 V) (115 V, 50/60 Hz)



7.5" (191 mm

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Easily place torch on either side of carriage







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## PORTABLE WELDING CARRIAGE

### Li'I RUNNER PORTABLE FILLET WELDING CARRIAGE

### COMPACT TRACKLESS FILLET WELDING CARRIAGE WITH 4-WHEEL DRIVE MAGNETIC TRACTION

Increase your production and reduce your welding costs with the Li'l Runner Automatic Fillet Welder. By providing constant, non-stop travel at a regulated speed, Li'l Runner produces consistent high-quality welds in a fraction of the time required by hand welding. The regulated travel speed creates weld bead geometry which is exact to your specifications, reducing costly over welding and decreasing filler metal usage by as much as 60%. Li'l Runner will produce quality welds faster and with less cost than hand welding. At just over 17 lbs (8 Kg), this compact, portable tractor can be carried anywhere.

The Li'l Runner is available in three unique versions: (i) the standard version (up to 40 IPM); (ii) the high-speed version (up to 86 IPM) which can be used for cutting and welding applications; and (iii) the dual-power version (battery powered



#### Standard kit includes:

dual-power battery-operated models.



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Power supply

Power cord 10 ft (3 m) SM-PWD-0466-18-00-00-0 (230 V) SM-PWD-0466-16-00-00-0

Li'l Runner with flex rail for tank fabrication.



### Li'I RUNNER FROM STEELMAX®

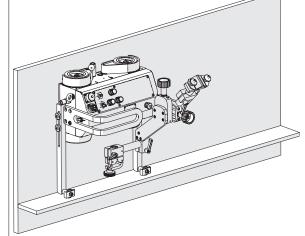
#### **FEATURES**

- Compact, lightweight design with durable cast aluminum housing
- · Positive magnetic traction permits out of position use
- Magnetic adhesion on/off lever permits easy set up and adjustment on work piece
- Maintenance-free, 4-wheel planetary gear drive system
- Digital LED display for setting travel speed
- Rapid clamp torch holder mechanism for different types of MIG/MAG torches
- Precise cross-slide torch adjustment
- Integrated automatic arc initiation
- · Self-guiding roller arms eliminate the need for track

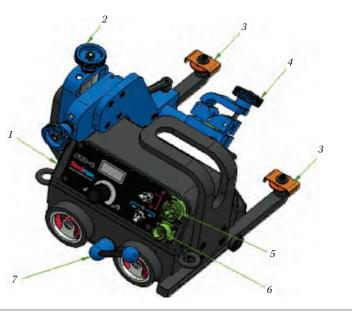
#### **PRIMARY BENEFITS**

- Increased arc time no starts and stops
- Reduce wasted filler metal eliminate over welding
- Consistent heat input reduces distortion
- Precise travel speed and torch angle reduces weld defects and costly rework
- Improves work environment reduces fatigue and repetitive stress – removes operator from heat and fumes







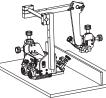


### PORTABLE WELDING CARRIAGE

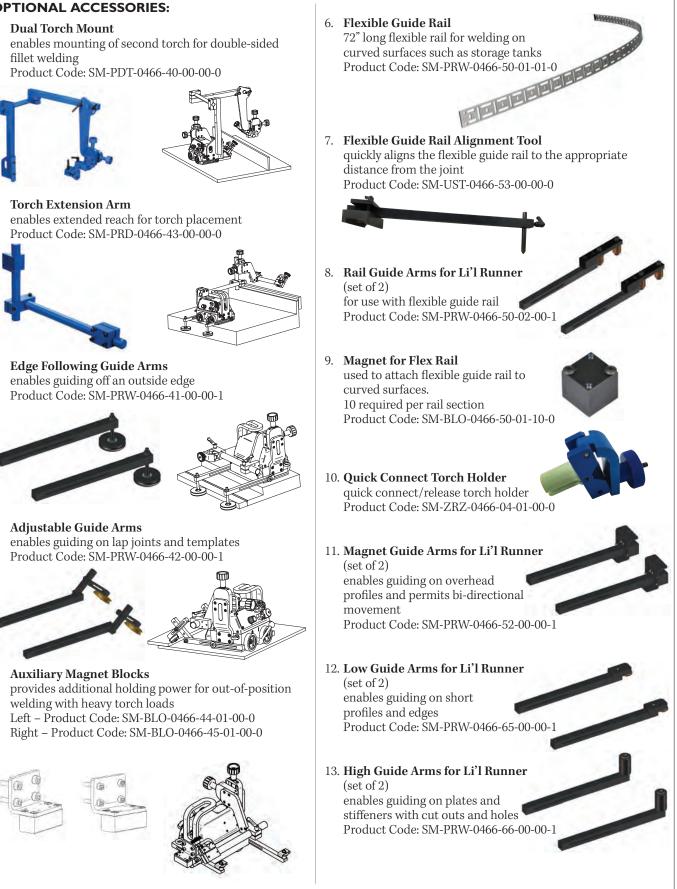
#### **OPTIONAL ACCESSORIES:**

fillet welding

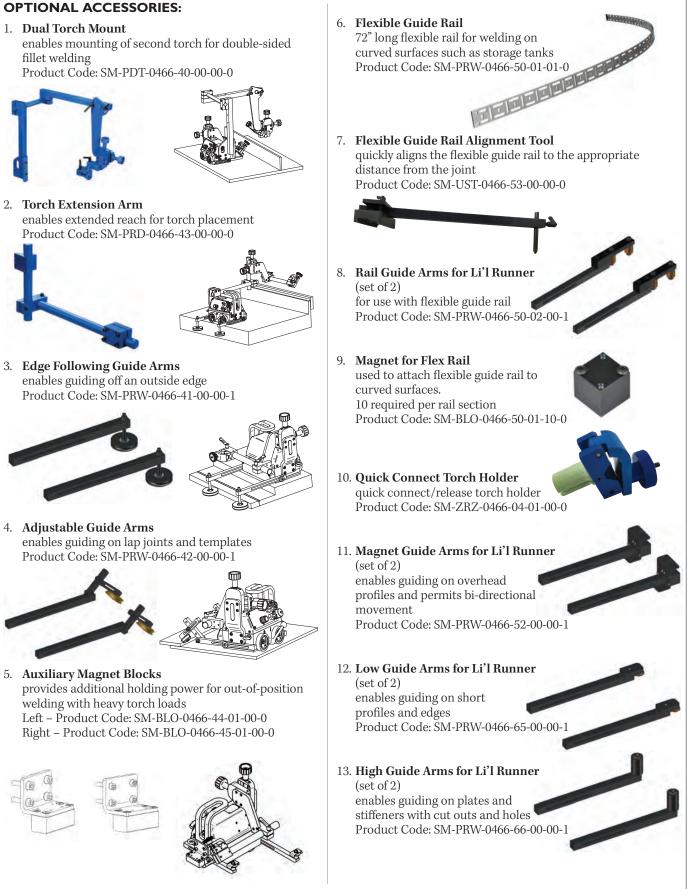




enables extended reach for torch placement Product Code: SM-PRD-0466-43-00-00-0







# 5. Auxiliary Magnet Blocks



1. Drive unit with control panel

- 2. Cross slide assembly
- 3. Guide arm assembly with brass roller wheel
- 4. Quick release torch holder (optional accessory)
- 5. Power supply socket
- 6. Arc control cable socket
- 7. Magnet release lever

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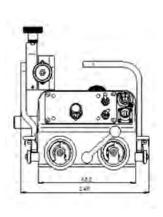
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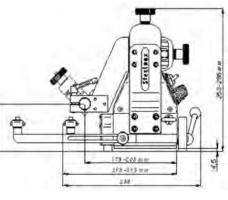
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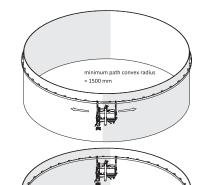


### Li'I RUNNER FROM STEELMAX®

Part Number		SM-WC-LR (Li'l Runner) SM-WC-LR-HS (High-Speed) SM-WC-LR-DP (Dual-Power)
Power sup	oply	Dual Voltage 120 or 230V
Welding p	position	Vertical/Horizontal
Minimum	material thickness	5/32″ (4 mm)
Chassis to	material clearance	5/32″ (4 mm)
Travel me	chanism	Friction drive with worm gear reduction
		Four wheel drive, heat resistant silicone wheels
Tracking method		2 guide rollers
Pulling power		22 lbs (10 kg) Vertical 33 lbs (15 kg) Horizontal
Cross slid	e Up-Down	I.4″ (35 mm)
adjustmer	<sup>nt:</sup> Left-Right	I.4″ (35 mm)
Guide rol	ler adjustment	4″ (100 mm)
	Arc Ignition Switch	Power supply On/Off
Control	Travel Direction Switch	Start Left, Stop, Start Right
panel:	Li'l Runner Speed (IPM) Range	Horiz: 0 - 43.3″/min (0-1100 mm/min) Vert: 0 - 39.4″/min (0-1000 mm/min)
	Li'l Runner HS Speed (IPM) Range	Horiz: 0 - 86.6″/min (0-2199 mm/min)
Dimensions (L x W x H)		9.6 x 10 x 9.5″ (240 x 258 x 253 mm)
Weight		17.5 lbs (8 kg)







minimum path cor radius = 1500 mm

### Li'l Runner DP Standard kit includes:

• Drive unit (SM-WC-LR-DP) Dual-power, battery-operated Li'l Runner

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- Battery
- Charger
- Arc control cable
- · Guide arm assembly with brass roller wheel





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### PROGRAMMABLE WELDING CARRIAGE FROM STEELMAX®

### **ARC RUNNER**

### PORTABLE & PROGRAMMABLE WELDING CARRIAGE **REPEATS OPTIMUM WELD PROCEDURE**

The Steelmax<sup>®</sup> Arc Runner is a portable, programmable welding carriage designed to produce consistent, high-quality welds. The powerful magnetic base and closed loop electronic speed control provide speed stabilization in all positions. The unit enables weld bead geometry that is exact to the required specifications, substantially reducing costly over welding and decreasing filler metal usage.

The Arc Runner can be programmed in continuous or stitch welding modes. Two easy-to-use function buttons enable programming of weld length, distance between welds, reverse fill, crater fill time and other required patterns and parameters. The Arc Runner travels at full speed between stitches, which saves valuable welding time.

An optional pendulum torch oscillator is available for the Arc Runner to produce weave welds. The oscillator allows for precise control of weave width, weave speed and left/right side wall dwell.

Arc Runner's microprocessor allows for development, storage and reproduction of up to 40 different welding programs for various joint configurations and multi-pass, multi-layer welds. Once an optimum weld procedure is developed, stored and programmed, Arc Runner will repeat it over and over again.



The Arc Runner can be used with the innovative Steelmax flexible guide rail system.



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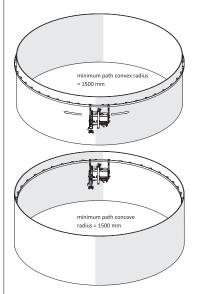


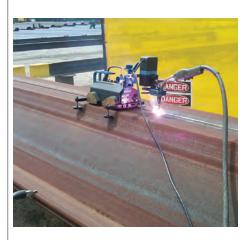
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### ARC RUNNER FROM STEELMAX®

#### **FEATURES**

- · Compact, lightweight design with durable cast aluminum housing
- Permanent magnet clamping system with on/off lever ensures positive magnetic traction
- Maintenance free, 4-wheel planetary gear drive system
- Standard torch holder for welding torches with diameters of 5/8" 7/8" (16-22 mm); optional large holder for diameters up to 1-3/8" (35 mm)
- Precise cross-slide torch adjustment
- · Multifunctional LED display and 2 function buttons for welding pattern programming
- · Closed-loop speed control system stabilizes travel speed to reduce weld defects and costly repair work
- Consistent heat input reduces distortion
- Automatic ARC ON/OFF system initiates welding and travel, simultaneously
- Self-guiding roller arms eliminate the need for track
- · Improves work environment reduces fatigue and repetitive stress removes operator from heat and fumes
- Capable of carrying and controlling 2 torches (without oscillation)
- Up to 40 complete programs may be stored in non-volatile memory







#### **OPTIONAL ACCESSORIES:**

Oscillator Technical Specifications			
Oscillation type	Pendulum		
Amplitude R-150 mm	0.08-1.2" (2-30 mm)		
Frequency	12-115 cycles/min		
Dwells	0-3 s.		
Weight	5.5 lbs (2.5 kg)		
Product Code	SM-WC-AR-OSC		









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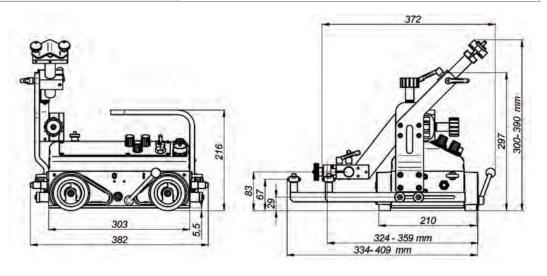
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### PROGRAMMABLE WELDING CARRIAGE FROM STEELMAX®

Arc Runner Technical Specifications				
Part Number		SM-WC-AR or SM-WC-AR-230		
Power supply	,	II5-230 VAC / 50-60 Hz (separate units due to plug interface)		
Welding posi	tions	Vertical / Horizontal		
Chassis to ma	aterial clearance	3/16" (5 mm) minimum		
Drive system		Friction drive with worm gear reduction		
Drive system		Four wheel drive, heat resistant silicone wheels		
Tracking met	hod	2 roller guides in various configurations		
Towing force		Vertical: 33.7 ft. lbs (150 Nm)		
ioning ionee		Horizontal: 49.5 ft. lbs (220 Nm)		
Torch	Up-Down	I-3/8" (35 mm)		
adjustment Left-Right		I-3/8" (35 mm)		
Guide roller a	adjustment	3" (75 mm)		
	Travel direction switch	program start, direction left / stop / program start, direction right		
Control	Function button FI	Continuous welding, dash, crater fill, backweld		
panel	Function button F2	Value change "+" or "-"		
	Arc ignition switch	TEST / 0 / I		
	Speed knob	Horizontal speed: 0 – 47-1/4"/min (0-1200 mm/min)		
Speed kilob		Vertical speed: 0 – 43-3/8"/min (0-1100 mm/min)		
Automatic stop		Limit switches at both ends		
Noise Level		< 70 dB		
Dimensions (	LxWxH)	15" x 14-5/8" x 15-3/8" (382 mm x 372 mm x 390 mm)		
Weight		29.8 lbs (13.5 kg)		





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## DIGITALLY CONTROLLED TRACTOR FROM STEELMAX®

### **RAIL RUNNER LT**

### ALL POSITION WELDING AND CUTTING TRAVEL CARRIAGE

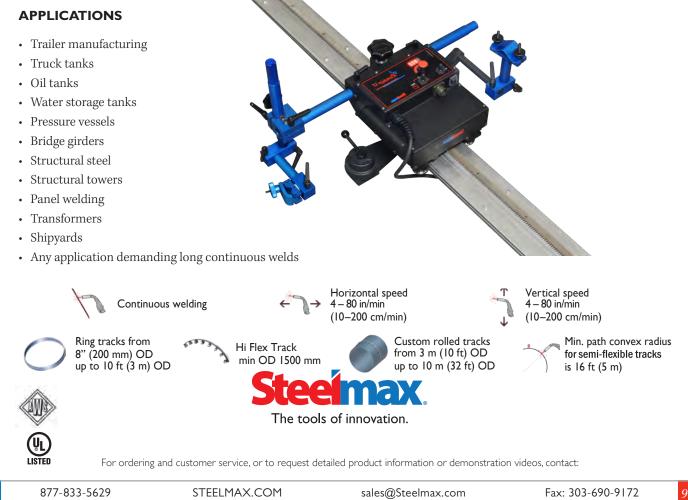
The Steelmax Rail Runner LT is a digitally controlled rail mounted travel carriage designed for the mechanization of welding and thermal cutting processes. Mechanized control of the welding or cutting torch allows continuous welding or cutting, increasing operating factor and deposition rates in welding applications. The Rail Runner LT features a rack and pinion drive system with electronic speed control that produces weld bead geometry that is exact to your required specifications, reducing costly over welding and minimizing filler metal usage.

The Rail Runner LT can be used with semi-flexible rail for plate and tank applications with a minimum diameter of 32 ft (10 m) and can be adapted to ring rails for pipe and tube applications.

Standard ring rails are available for tube diameters from 8" (200 mm) up to 10 ft (3 m). Custom rolled rails can be used for tube diameters between 10 ft (3 m) and 32 ft (10 m).

An optional vacuum system allows the rails to attach to non-ferrous surfaces such as stainless steel and aluminum.

The Rail Runner LT is an economical system for a wide range of welding and cutting applications on flat or curved plate, tube and pipe.

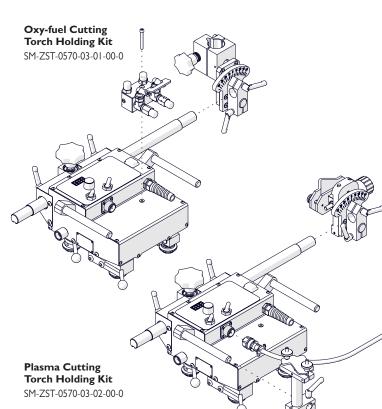


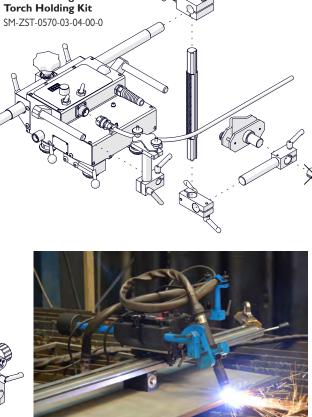


### RAIL RUNNER LT

#### FEATURES

- Compact, lightweight design
- Closed-loop encoder insures accurate speed control
- Rack and pinion drive
- Digital LED display for pre-setting travel speed
- Automatic arc on/off initiates welding and travel simultaneously
- Suitable for a variety of circumferential and irregular surface applications down to a minimum diameter of 8" (200 mm)
- Ring rails for diameters from 8" (200 mm) OD up to 10 ft (3 m) OD
- Custom rolled rails for diameters from 10 ft (3 m) OD up to 32 ft (10 m) OD
- Semi-flexible rails can be bent to a minimum radius of 16 ft (5 m) without permanent deformation
- Gear-driven cross slide for precise torch adjustment
- Application-specific accessory kits for oxy-fuel, plasma, MIG/MAG and SAW processes





MIG/MAG Welding

Torch Holding Kit

SAW Welding

SM-ZST-0570-03-03-00-0



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Rail Runner LT Technical Specifications				
Voltage		I I 5 - 230V 50 - 60 Hz		
Power		66 Watts		
Deil Octions for Downd	Ring Rails	8" OD to 10' OD (200 mm to 3m OD)		
Rail Options for Round Tube & Pipe	Custom Rolled Rail	10' OD up to 32' OD (3m to 10m OD)		
idbe & lipe	Semi-Flexible Rail	Minimum Curvature Radius of 16' (5m)		
Torch Types		Oxy-fuel, Plasma, MIG/MAG, SAW		
	Oxy-Fuel	up to I-3/8" (35 mm)		
Torch Diameter	Plasma, SAW	up to I-3/8" (35 mm)		
	MIG/MAG	5/8" - 7/8" (16 - 22 mm)		
Horizontal Pulling Force		67.5 Lbs		
Vertical Pulling Force		45 Lbs		
Horizontal Speed Range		4 - 80 in/min (10 - 200 mm/min)		
Vertical Speed Range		4 - 80 in/min (10 - 200 mm/min)		
Weight		22 Lbs (10 Kg)		
Part Number		SM-WC-RR-LT		

### Standard shipping set:

- Rail Runner LT tractor
- 21" (540 mm) geared rack
- 6 mm hex wrench
- 10 ft (3 m) power cord
- Operator's Manual

Refer to pages 104 & 105 for available rail & magnet options.





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### TRACK WELDING CARRIAGE FROM STEELMAX®

### **RAIL RUNNER**

### INCREASE PRODUCTION AND IMPROVE WELD QUALITY WITH MAGNETICALLY FIXED RAIL-GUIDED TRAVEL CARRIAGE

The Steelmax<sup>®</sup> Rail Runner is a digitally controlled travel carriage designed for the mechanization of welding and thermal cutting processes. Featuring a positive rack and pinion drive system with electronic speed control, the Rail Runner can produce consistent, high quality welds and cuts in the flat, vertical or horizontal position. A multi-function LED display permits precise setting of process parameters making set up and repetition of predefined weld procedures quick and simple.

The **Rail Runner** is available in two versions: (i) the standard version with the integrated linear oscillator; and (ii) a basic version without integrated linear oscillation. As a result, the Rail Runner family of track mounted welding carriages economically meets a broad array of welding and cutting applications.

#### FEATURES

- Durable aluminum cast housing
- · Automatic arc ignition integrated with travel switch
- · Precise cross slide torch adjustment
- Closed loop position control with encoder feedback
- LED display with numeric representation permits presetting of all motion parameters including weave width, weave speed, side wall dwells and tractor travel speed
- Integrated linear oscillator for weave welding and overlay
- Electronic torch steering during weaving operation
- Semi-Flexible Guide Rail will adhere curved surfaces with minimum radius of 16' (5 m)









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## TRACK WELDING CARRIAGE FROM STEELMAX®

### Pail Punner Technical Specifications

Rail Ru	Rail Runner Technical Specifications			
Part Nun	nber	SM-WC-RR (with oscillation) SM-WC-RR-WO (without oscillation)		
Power Su	ıpply – Dual Voltage	115-230 V / 50-60 Hz		
Power		100 W .13 HP		
Welding	Horizontal	PA (flat), PB (horizontal vertical), PC (horiz.)		
Positions	Vertical	PF (vertical up), PG (vertical down)		
Minimum	n track way curvature radius	l 6 ft (5 m)		
Torch dia	imeter	5/8" – I" (I6 - 25 mm)		
Minimum	welding material thickness	3/16" (5 mm)		
Pulling	Horizontal work	77 lbs (350N)		
Force	Vertical work	33 lbs (150N)		
Torch ad	justment range	I-3/8" up-down, left-right (35 mm)		
Horizont	al speed	0 – 47-3/8"/min (0 - 120 cm/min)		
Vertical s	peed	0-43-5/16"/min (0-110 cm/min)		
Oscillatic	on type	linear		
Oscillato	r arm stroke	0-4" (0 - 100 mm)		
Oscillatic	on width	0 – 1.9" (0 - 50 mm)		
Oscillatic	on speed	0 – 59"/min (0 - 1500 mm/min)		
Oscillatic	on dwells	0–5 s		
Weight		44 lbs (20 kg)		

#### The included equipment consists of:

- Welding carriage
- Metal box
- Torch holder
- Cable holder
- Power cord
- Arc ignition cable of 6.5 m (21 ft)

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- 3 mm hex wrench
- 4 mm hex wrench
- Operator's Manual

#### • SM-DYS-0482-15-01-01-0

Refer to page 105 for available rail & magnet options.



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Suitable for work in both horizontal and vertical positions

User-friendly control panel



### Additional accessories:

• SM-PRW-0482-15-02-00-0 Track segment of



• SM-ZSP-0475-56-00-00-0 Magnetic base unit



Mounting Bracket for Magnet







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### MODULAR TRACK WELDING CARRIAGE FROM STEELMAX®

### **RAIL RUNNER II**

### MODULAR WELDING/CUTTING CARRIAGE WITH INTEGRATED SEAM TRACKING

The Steelmax<sup>®</sup> Rail Runner II is a compact, modular, mechanized carriage which can be custom configured for a variety of welding, thermal cutting and gouging applications on flat or curved plate, tube and pipe. By utilizing a magnetic guide rail and positive rack and pinion drive, the system can be utilized in all welding positions. Ergonomic remote control pendant with simple, easy to find control knobs makes process adjustment possible without the operator lifting their welding hood. A digital display with numeric representation for each motion parameter makes presetting the optimum welding or cutting procedure simple and highly repeatable. The Rail Runner II increases arc-on time and produces consistent, high-quality welds and cuts in a fraction of the time required by manual operations. Optional accessories include tactile probe seam tracking and motorized vertical torch slide for automatic torch height control.

The Rail Runner II can be used with semi-flexible rail for plate and tank work with a minimum radius of 16' (5m) or adapted to bent ring rail for pipe and tube applications. Standard ring rails are available for tube diameters from 8" (200mm) up to 9.85' (3000mm).

#### **APPLICATIONS**

- Trailer manufacturing
- Truck tanks
- Oil & Water storage tanks
- Pressure vessels
- Overlay/Hard facing
- Bridge girders
- Structural steel
- Structural towers
- Panel welding
- Boiler panel fabrication
- · Shipbuilding and repairs





## MODULAR TRACK WELDING CARRIAGE FROM STEELMAX®

	RAIL RUNNER	II Technical Specification	
Voltage		I~ 42V, 115V, 230 V, 50–60 H	
Power		120 W	
\A/aldina a asiti ana	Horizontal	PA (flat), PB (horizontal vertica	
Welding positions	Vertical	PF (vertical up), PG (vertical do	
Minimum track curvature	e radius	5 m (16 ft)	
Torch type		MIG/MAG	
Torch diameter		16–22 mm (0.63–0.87"); up to	
Minimum workpiece thic	kness	5 mm (0.20")	
Horizontal pulling force		400 N	
Vertical pulling force		400 N	
Horizontal speed		0–300 cm/min (0–120 in/min)	
Vertical speed		0–300 cm/min (0–120 in/min)	
Oscillation type		linear	
Oscillation path		triangle, straight line	
Oscillator arm stroke		0–100 mm (0–3.9")	
Oscillation width		0–50 mm (0–1.9")	
Oscillation speed		0–3000 mm/min (0–118.0 in/i	
Oscillation delay at center and on ends		0—5 s	
Maximum oscillator pulling force		100 N	
Weight		10 kg (22 lbs)	

#### **FEATURES AND BENEFITS:**

- Compact, lightweight design
- · Simple, ergonomic remote control pendant with magnetic base and multifunction LED display
- · Quick clamping torch holder mechanism:
- Standard for torch diameters of 16-22 mm (0.63 0.87") - Optional for larger torch diameters up to 35 mm (1.38")
- Simple, precise torch adjustment
- Automatic ARC ON/OFF initiates welding and travel, simultaneously
- · Closed loop control system insures accurate speed and position control
- · Improves working environment -removes operator from heat and fumes
- · Integrated linear oscillator
- Rack and pinion drive with integrated limit switches
- Improved weld performance

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RRII 03/2019

- Constant travel speed maintains consistent heat input, minimizes distortion and eliminates over welding
- Minimizes starts & stops in long welds, eliminating the associated weld defects
- Digital display with numeric representation for each motion parameter makes presetting the optimum welding or cutting procedure simple and highly repeatable



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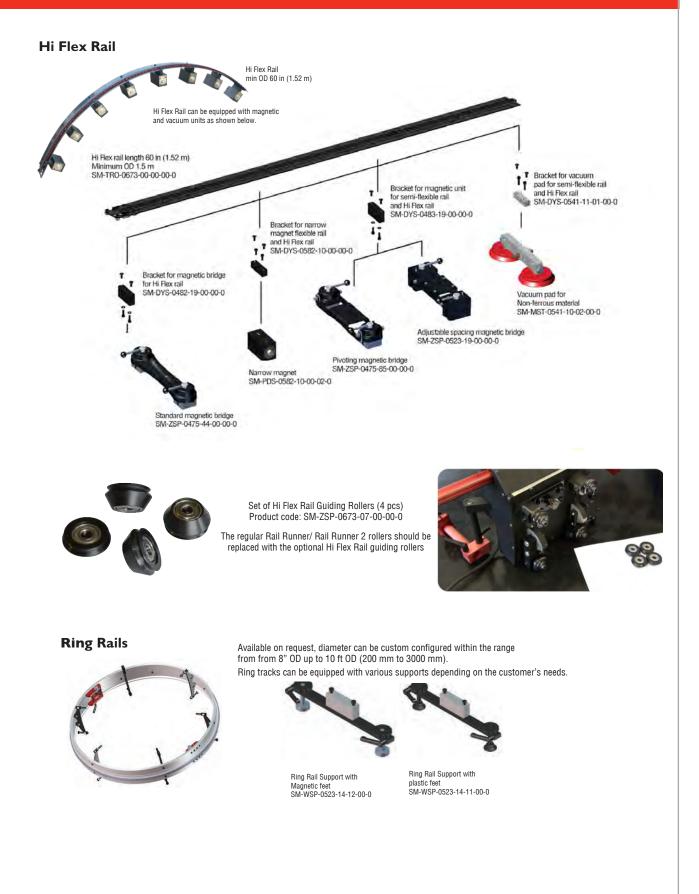
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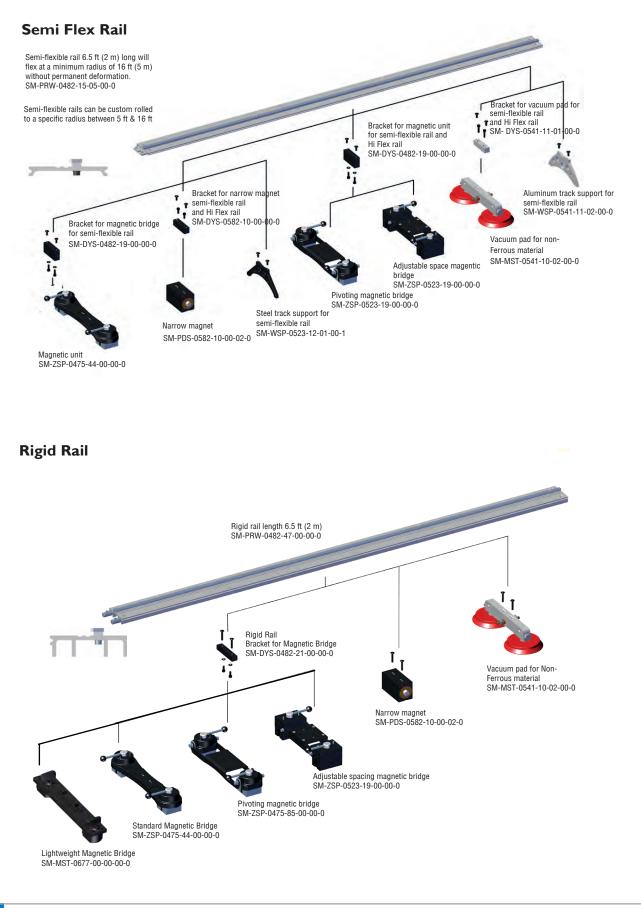
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### RAIL OPTIONS FOR RAIL RUNNER FAMILY OF CARRIAGES



### RAIL OPTIONS FOR RAIL RUNNER FAMILY OF CARRIAGES



### WELDING OSCILLATOR & MINI-MANIPULATOR

### **Welding Oscillator**

### AUTOMATIC WEAVE WELDING

Improve your circumferential welding processes with the Steelmax stand-alone Welding Oscillator and Mini-Manipulator. This lightweight, compact weld weaving oscillator provides you with full control of oscillation parameters, making it an ideal weave welding solution for many applications including: pipes, tubes, vessels, flanges, fittings, and much more. Combine this system with welding positioners, turning rolls, track-mounted welding carriages, trackless carriages, an existing welding system, such as a column and boom, or use it independently with the rugged freestanding Mini-Manipulator.

#### **FEATURES**

- Two working modes: automatic with existing weld fixtures and manual using the system independently with the Mini-Manipulator
- Simple adjustemnt of four weld parameters: oscillation width, oscillation speed, right and left dwell times
- Lightweight and portable

#### **BENEFITS**

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- Increased Productivity: Provides non-stop 360° welding when used with rotation devices such as welding positioners and turning rolls.
- Improved Weld Repeatability: Precise travel speed and torch angle reduces costly over-welding and rework, granting precise repeatability and consistent bead geometry.
- Ergonomics and Safety: Removes the operator from potentially hazardous heat and fumes created by prolonged open arc welding processes. Relieves the operator from repositioning reducing fatigue and stress.









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## WELDING OSCILLATOR & MINI-MANIPULATOR

### **Oscillator Technical Specifications**

Voltage	115V or 230V (sold separately)			
Torch type	MIG/MAG			
Torch diameters	5/8"-7/8'' (16-22 mm)			
Oscillation type	Pendulum			
Oscillation width	1/32"-1-3/16'' (1-30 mm)			
Oscillation speed	12-115 cycles/min			
Oscillation dwell time range	0-3 s			
Maximum torque	5.7 lb·ft (8 N·m)			
Weight	4 lbs (2 kg)			
Welding Oscillator part number	SM-OSC-0497-24-00-00-0			
115V/230V power supply (sold seperatly) - Includes 10' power cord and 10' control cable	SM-ZSL-0497-16-00-01-0 (115V) SM-ZSL-0497-16-00-00-0 (230V)			

### **Freestanding Mini-Manipulator**

The Freestanding Mini-Manipulator from Steelmax can be used with the Welding Oscillator or as an independent welding positioner. This lightweight column and boom provides full control of the oscillator or torch position during operation. Easily transport the Mini-Manipulator to wherever it's needed for quick and easy use.

#### **Mini-Manipulator Technical Specifications**

Torch holder diameter	5/8–7/8" (16–22 r
Arm horizontal stroke	22" (560 mm)
Arm vertical stroke	25" (640 mm)
Weight	33 lbs. (15.3 kg)
Part Number	SM-STJ-0629-24-00-





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Mini-Manipulator with Oscillator



Mini-Manipulator as positioner

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### CNC CUTTING FROM STEELMAX<sup>®</sup>

### SHAPERUNNER TWO-AXIS CNC CUTTING SYSTEM

### MODULAR AND PORTABLE CNC CUTTING

The Shape Runner\* from Steelmax is a modular, portable and affordable CNC cutting system for all of your cutting needs, whether with plasma or flame cutting processes. The ShapeRunner's light weight, portability and minimal footprint make it the ideal choice for small shops looking to automate their cutting processes or for larger shops that need additional capacity away from their production cutting lines. With 4.5' of reach and up to 16' of linear carriage travel, the ShapeRunner is an extremely versatile solution, providing high-quality results without the price or the footprint of a traditional gantry cutting system.

The **Shape Runner** works with virtually all plasma power sources and can be uniquely configured to meet each user's specific needs, providing the highest value per cut in the industry. Whether you use the **Shape Runner** with a dedicated cutting table or you move the **Shape Runner** to the material, the **Shape Runner** is the go-to cutting machine. Each machine even includes CAD drawings and specifications for a robust cutting table specifically designed by Steelmax for the Shape Runner!

#### **FEATURES**

- · Multi-process controller easily manages plasma power supplies as well as Oxy-Fuel cutting processes
- Automatic arc-voltage torch-height control and pierce distance control
- Precision guide rails ensure accurate and repeatable cutting performance
- Built-in shape library 24 standard shapes with easily edited dimensions
- Fully integrated part nesting capabilities
- Standard USB port for loading custom two-dimensional shapes from standard CAD files
- Emergency Stop button
- 32 MB standard internal memory for program storage
- Standard 4 <sup>1</sup>/<sub>2</sub>' cutting width, with either 6 <sup>1</sup>/<sub>2</sub>' or 9 <sup>1</sup>/<sub>2</sub>' cutting length
- · Fully licensed copy of FASTCAM software included with each machine
- Dual voltage 115V or 220V

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## CNC CUTTING FROM STEELMAX®

TECHNICAL SPECIFICAT			
Effective Cutting Width	4.5 Ft. (1370 mm)		
Effective Cutting Length	6.5 Ft., 9.5 Ft. (1980 mm, 289		
Rapid Speed	120 IPM (3050 mm/min)		
Cutting Speed Range	2 - 120 IPM (50 - 3050 mm/n		
Supply Voltage	I I 5 Volts (Standard) / 220 Vol		
	•		
PLASMA CUTTING			
Torch Holder	Standard I 3/8" (35 mm) Mac		
Height Control	Through The Arc Height Con		
Collison Detection	Ohmic Crash Sensing Throug		
	<b>OXY - FUEL CUTTING</b>		
Torch Holder	Standard   3/8" (35 mm) Mac		

Torch Holder	Standard I 3/8" (35 mm) Mac
Hose Sizes	Standard "B" Oxy-Fuel Fitting

#### **CNC CONTROLLER Operation Panel** 7" Color Display **Program Format** G Code 24 Shapes with Editable Dime Shape Library CAM Software FASTCAM Included with Each Controller features Outline, Scale, Mirror, Rotate, Kerf compenation, and Nesting

### Standard Machine Package Includes:

- CNC Control Unit
- 4 <sup>1</sup>/<sub>2</sub>' x 6 <sup>1</sup>/<sub>2</sub>' or 4 <sup>1</sup>/<sub>2</sub>' x 9 <sup>1</sup>/<sub>2</sub>' Working envelope
- Motorized Z axis for Torch Height Control
- Torch holder for 1 3/8" machine barrel torch
- Interface cable for plasma power supply Specify Power Supply
- Tubing/Solenoids for Oxy-Fuel cutting
- (Torch and short hoses sold separately)
- FASTCAM software
- · CAD drawings for custom Steelmax burn table

#### Part Numbers:

- SM-SR-2150 6.5Ft Y-axis with Hypertherm interface cable
- SM-SR-2151 6.5 Ft Y-axis with universal interface cable
- SM-SR-3150 9.5Ft Y-axis with Hypertherm interface cable
- SM-SR-3151 9.5 Ft Y-axis with universal interface cable

#### **Optional Equipment:**

- SM-SR-FLM Oxy-Acetylene torch/hose (w/o cutting tips)
- SM-SR-HYP-85 Hypertherm Powermax 85 plasma package

### **Shipping Dimensions** (L x W x H) and Weights:

#### SM-SR-2150/2151

- Controller 21" x 27" x 18", 82 LBS
- Rails 108" x 19" x 10", 159 LBS

### SM-SR3150/3151

- Controller 21" x 27" x 18", 82 LBS
- Rails 163" x 19" x 10". 240 LBS

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