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.



The tools of innovation.

15335 E. Fremont Drive, Centennial, CO 80112 121 Southpointe Drive, Bridgeville, PA 15017

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

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2019 Catalog Version 2

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PORTABLE DRILLING MACHINE FROM STEELMAX®

DI 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[™] circuitry assures adequate adhesive force for safe operation.

FEATURES

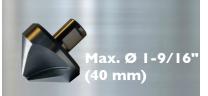
- 1-3/8" (36 mm) diameter x 2" (51 mm) depth of cut
- Ultra-compact and light weight: 14-3/4" working height (with coolant bottle) and only 22 pounds
- · Adjustable cutter guard with built-in chip breaker
- Through spindle coolant system with removable reservoir
- Maintenance free rail guide system for long life, minimal run-out and extreme accuracy
- Safe Magnet[™] 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





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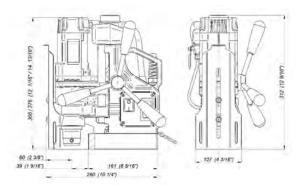


Standard shipping set:

- 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)



DI Technical Specification	c		
Tool holder	3/4" (19 mn	·	
Annular cutter (Core drill) Ø	max 1-3/8"	(36 mm)	
Countersinking Ø	1-9/16" max	< (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 I.	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	859 lbs	
	(968 kg)	(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 kg)		
Part number	SM-DI (115V/60Hz)		
	SM-DI-230 (230V/50Hz)		







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SEMI-AUTOMATIC DRILLING MACHINE FROM STEELMAX®

DI 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





Max Hole Size: I-3/8" (36 mm)

Weight: 30 lbs. (13.5kg) Depth of cut: 2" (51 mm)

Minimum work piece

thickness: 1/4" (6 mm)

Stroke: 2-3/4" (70 mm)



EXCELLENT PERFORMANCE & PRODUCTIVITY

- Max drilling capacity of I-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

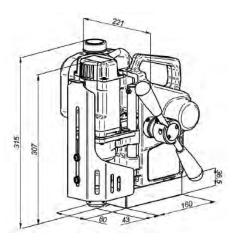
- · Overload control stops both cutting and feeding motors immediately
- Magnetic Power Adhesion Control (MPAC) prevents drilling when the electromagnetic holding force is not sufficient. This protects both the machine and the operator from work in unsafe conditions

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 Technical 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	I/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





Supporting Company Member

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

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877-833-5629

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CE

LOW PROFILE MAG DRILL FROM STEELMAX®

DI 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)



with Weldon Shank

3/4" (19mm)





370 rpm



Motor Power:

920 W



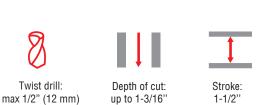
D1LOW PROFILE

Weight: 21 lbs (9.5 kg)



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(39 mm)



(30 mm)







The DI Low Profile fits in the tightest spots

D1 Low Profile Technical Specifications			
Voltage	115V or 230V 50-60Hz		
Motor Power	920₩		
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





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

STEELMAX.COM

877-833-5629

33-5629

sales@Steelmax.com

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DI MAG DRILLS FOR SPECIAL APPLICATIONS



DI-SM Swivel Magnet

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.

DI-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





DI-TS for Thin Steel

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 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	
Max Milling Cap.	1-7/16" (36 mm)	1-7/16" (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	



PORTABLE DRILLING MACHINE FROM STEELMAX®

DI PRO PORTABLE MAGNETIC DRILL

HIGH PRODUCTION DRILLING MACHINE FOR THE PROFESSIONAL STEEL FABRICATOR

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

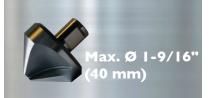
- Up to 1-9/16" diameter and 2" depth of cut
- Magnetic Power Adhesion Control (MPAC)
- Magnetic Field Shape Control (MFSC)
- Energy Saving Base (ESB)
- Comes complete with swarf shield and coolant bottle assembly











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

DI PRO Technical Specifications		
Tool holder	3/4" (19 mm) Weldon	
Milling cutter (Core drill) Ø	max 1-9/16" (40 mm)	
Twist drill Ø	max 5/8" (16 mm)	
Countersinking Ø	max 1-9/16" (40 mm)	
Stroke	4-7/8" (124 mm)	
Max depth of cut	2" (51 mm)	
Voltage	110-120 V 50/60 Hz or 220-240 V 50/60 Hz	
Power consumption [W]	1140	
Motor power	1020 W 1.4 HP	
Spindle speed (under load)	440 rpm	
MPAC (Magnetic Power Adhesion Control)	yes	
MFSC (Magnetic Field Shape Control)	yes	
ESB (Energy Saving Base)	yes	
Magnetic Clamping Force [N] (25 mm, Ra=1.25)	9800 (2200 lbs)	
Magnet base dimensions	3-5/16 x 6-5/8 x 1-5/8" (84 x 168 x 41.5 mm)	
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-230	

Optional Accessories:

SM-TLJ-0197-10-00-03-0*	Adapter/Arbor Weldon 19 x 1/2" - 20 UNF
SM-DC-PRO40*	Drilling Chuck 16-1/2" - 20 UNF

*Items necessary for use with twist drill bits.





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sales@Steelmax.com

Fax: 303-690-9172

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CE

PORTABLE DRILLING MACHINE FROM STEELMAX®

D2x PORTABLE MAGNETIC DRILL

PURPOSE-DESIGNED PRODUCTION DRILLING MACHINE

The **D2x** magnetic drill from Steelmax is a powerful drilling machine for every-day industrial use. With its high-torque, 1260-watt electric motor, the **D2x** is capable of drilling 2" (51 mm) diameter holes in material up to 3" (76 mm) thick. The **D2x** features a revolutionary – and service-friendly – design with a unique, semi-automatic, self-adjusting gib system that requires minimal maintenance over the drill's life and produces accurate hole cutting. A proprietary replaceable spline on the end of the armature shaft further reduces maintenance and repair costs.

The **D2x** accepts arbors and drill chucks with Morse Taper No. 2 shafts and easily switches between drilling with annular cutters and solid twist drill bits for maximum flexibility.

Equipped with an electromagnetic Energy Saving Base (ESB), the **D2x** uses only 50% of the power when the motor is not under load, which dramatically increases the operating life of the electromagnet. A Magnetic Field Shape Control (MFSC) system provides maximum holding power on thin material.

A Magnetic Power Adhesion Control (MPAC) module detects an adequate adhesive force of electromagnetic base for safe operation.

FEATURES

- 2" (51 mm) diameter x 2" (51 mm) depth of cut
- Unique self-adjusting gib system extends cutter life
- Through-spindle coolant system with integrated reservoir
- Safe magnet[™] circuitry recognizes magnetic holding power
- Powerful 1260W motor and all metal housing make the D2x a production tool for industrial environments
- 2-speed gearbox works with twist bits to 7/8" and annular cutters to 2" diameter
- Integrated gearbox housing with slide
- · Adjustable cutter guard with built-in chip breaker
- · Semi-automatic gib backlash adjustment
- Energy Saving Base (ESB)
- Magnetic Power Adhesion Control (MPAC)
- Magnetic Field Shape Control (MFSC)











Standard shipping set:

- Magnetic base 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 60 lbs

D2x Technical Specifications		
Spindle	MT2	
Tool holder	3/4" (19 mm) Weldon	
Milling cutter (Core drill) Ø	max 2" (51	mm)
Twist drill Ø	max 7/8" (2	3 mm)
Countersinking Ø	max 2" (51	mm)
Stroke	6" (153 mm)
Max depth of cut	3" (76 mm)	
Voltage	115V/60Hz	or 230V/50Hz
Power consumption [W]	1300	
Motor power	1260 W	I.7 HP
Spindle speeds (under load)	200 грт 400 грт	
MFSC (Magnetic Field Shape Control)	yes	
	Dead lift	Drill point breakaway
Magnet – on I" (25 mm) plate	2697 lbs	1074 lbs
	(1223 kg)	(487 kg)
Magnet base dimensions		-1/16" x 1-7/8"
	(90 x 180 x	48 mm)
ESB (Energy Saving Base)	yes	
MPAC (Magnetic Power Adhesion Control)	yes	
Minimum workpiece thickness	5/16" (8 mm)	
Semi-automatic gib backlash adjustment	yes	
Weight	35 lbs 5 oz (16.5 kg)	
Part number	SM-D2x (115V/60Hz)	
	SM-D2x-230 (230V/50Hz)	

Optional Accessories:

SM-DC-MT2-13

Morse Taper #2, 1/2" drill chuck



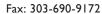


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PORTABLE DRILLING MACHINE FROM STEELMAX®

D3xrs PORTABLE MAGNETIC DRILL

3×3 VARIABLE-SPEED, REVERSIBLE DRILL WITH SWIVEL BASE

The **D3XRS** is a heavy-duty, multi-function magnetic drilling machine with Morse Taper No. 3 attachment system. Its powerful 1,650 Watt motor, two-speed gear box and variable speed control are designed for drilling holes up to 3" (76 mm) diameter through 3" thick material. With an optional drill chuck, the **D3XRS** can drill holes up to 1-1/4" (32 mm) in diameter using solid twist drill bits. The reversing feature of the **D3XRS** enables it to tap 3/4" diameter through-holes without a separate tapping attachment. With a separate Morse Taper No. 3 tapping head, the **D3XRS** can also tap blind holes up to 3/4" in diameter.

The **D3XRS** uses an integrated swivel base for easy alignment of your pilot pin with the desired center location of your hole. It is also equipped with motor overload protection for additional safety and long motor life. In addition, the **D3XRS** uses a state of the art Electronic Speed Stabilization System (ESSS) to stabilize motor speed under varying spindle load conditions. Its precision and durability are significantly increased as its gearbox housing and slide are manufactured as a single piece.

A unique, semi-automatic gib adjustment system (patent pending) enables simple, fast and precise adjustments without expert knowledge or experience. The replaceable spline on the end of the armature shaft eliminates laborious and expensive armature maintenance.

The **D3XRS** is equipped with our proprietary Magnetic Field Shape Control (MFSC) system which provides maximum holding power on thin material (minimum 3/8" thickness), a Magnetic Power Adhesion Control (MPAC) module which insures adequate magnetic adhesion for safe operation and our Safe Magnet[™] technology which recognizes magnetic holding power and will not allow the drill to function in unsafe conditions.

FEATURES

- 3" (76 mm) diameter x 3" (76 mm) depth of cut
- Soft start electronics for long motor life
- · Continuous speed adjustment with two-speed gearbox
- Motor overload protection
- Swivel base
- Electronic Speed Stabilization System (ESSS)
- Safe Magnet[™] circuitry recognizes magnetic holding power
- · Semi-automatic gib backlash adjustment
- Magnetic Power Adhesion Control (MPAC)
- Magnetic Field Shape Control (MFSC)





Swivel base is standard on all **D3xRS** Swivel base: ±15°, ±9/16 " (15 mm)





- Swarf shield/Cutter guard
- Coolant bottle assembly
- Safety chain
- Set of tools with wedge
- Instruction manual
- Standard shipping weight 86 lbs 5 oz (40 kg)

Attention:

Standard shipping set of **D3XRS** includes MT3 Arbor with 3/4" (19 mm) Weldon Bore that accepts cutters up to 2-3/8" (60 mm) diameter.

Optional MT3 Arbor with 1-1/4" (32 mm) Weldon Bore for cutters of larger diameters available.

D3xrs	Technical	Specifications
DOVID	recimical	opecifications

Spindle	MT3	
Tool Holder	3/4" (19 mm) Weldon	
Milling Cutter (Core Drill) Ø	1.5 HP (1.1 kW)	
Twist drill Ø	max 1-1/4" (32 mm)	
Counter Sinking Ø	max 2-1/2" (63 mm)	
Max tap size	M24 (special tapping attachment required)	
Stroke	8-7/8" (225 mm)	
Max depth of cut	3" (76 mm)	
Voltage	115V/60Hz or 230V/50Hz	
Power consumption [W]	1800	
Motor power	1650 W 2.2 HP	
Speeds [rpm]	80/160 and 210/420	
Overload protection	yes	
ESSS (Electronic Speed Stabilization System)	yes	
Continuous speed adjustment	yes	
MFSC (Magnetic Field Shape Control)	yes	
Magnet -on 1" (25 mm) plate	Dead lift Drill point breakaway 4383 lbs 1779 lbs (1987 kg) (806 kg)	
Magnet base dimensions	4-5/16" x 8-11/16" x 2-3/16" (110 x 220 x 56 mm)	
MPAC	yes	
(Magnetic Power Adhesion Control)		
Swivel base	+ 15°; + 9/16" (15 mm)	
Minimum workpiece thickness	3/8" (10 mm)	
Semi-automatic gib backlash adjustment	yes	
Weight	58 lbs 6 oz (27 kg)	
Part Numbers	SM-D3XRS (115 Volt/60Hz) SM-D3XRS-230 (230 Volt/50Hz	

Optional Accessories:

SM-DC-MT3-13	Morse Taper #3, 1/2" drill chuck
SM-DC-MT3-20	Morse Taper #3, 3/4" drill chuck
SM-UCW-0191-00-00-00-0	Morse Taper #3, arbor for 1-1/4" shank cutters





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

877-833-5629

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PORTABLE DRILLING MACHINE FROM STEELMAX®

D4x PORTABLE MAGNETIC DRILL

POWER & PERFORMANCE: HEAVY-DUTY DRILLING MACHINE

The **D4x** heavy-duty magnetic drilling machine from steelmax is equipped with a 4-speed mechanical gearbox and a high-torque 1,650 Watt motor with overload protection to tackle the toughest hole-making requirements. Its precision, durability and reliability are significantly enhanced due to its one-piece gearbox housing and slide. Our unique semi-automatic gib adjustment system enables simple, fast and precise fine tuning without any expert knowledge or experience. A replaceable spline on the end of the armature shaft eliminates laborious and expensive armature maintenance.

The **D4x** is equipped with our proprietary Magnetic Field Shape Control (MFSC) system which provides maximum holding power on thin material (down to 3/8" thick), a Magnetic Power Adhesion Control (MPAC) module which detects adequate adhesive force for safe operation and our Safe magnet[™] circuitry which will not allow the drill to function in unsafe conditions.

FEATURES

- 4-3/8" (111 mm) diameter x 3" (76 mm) depth of cut
- Purpose-designed 1,650 Watt motor with heavy-duty 4-speed gearbox
- Soft start circuitry and motor overload protection with LED indicator
- Morse Taper No. 4 for maximum capability and flexibility
- · Maintenance-friendly design
- Gear box and slide system made as one piece
- · Semi-automatic gib backlash adjustment
- Safe Magnet[™] circuitry recognizes magnetic holding power
- Magnetic Power Adhesion Control (MPAC)
- Magnetic Field Shape Control (MFSC)







- Set of tools with wedge
- Instruction manual
- Standard shipping weight 82 lbs 6 oz (38.2 kg)

Attention:

Standard shipping set of **D4x** includes MT4 Arbor with 3/4" (19 mm) Weldon Bore that accepts cutters up to 2-3/8" (60 mm) diameter.

Optional MT4 Arbor with 1-1/4" (32 mm) Weldon Bore for cutters of larger diameters available.

D4x Technical Specifications		
Spindle	MT4	
Tool holder	3/4" (19 mm) Weldon	
Milling cutter (Core drill) Ø	max 4-3/8"	(III mm)
Twist drill Ø	max 1-7/8"	(47 mm)
Countersinking Ø	max 2-1/2"	(63 mm)
Max tap size	M30 (special tappi	ng attachment required)
Stroke	9-1/16" (23	0 mm)
Max depth of cut	3" (76 mm)	
Voltage	115V/60Hz	or 230V/50Hz
Power consumption [W]	1800	
Motor power	1650 W 2	.2 HP
Spindle speeds (under load)	85/135 and	160/250 rpm
MFSC (Magnetic Field Shape Control)	yes	
Overload protection	yes	
LED Overload protection	yes	
	Dead lift	Drill point breakaway
Magnet – on I" (25 mm) Plate	4945 lbs	1945 lbs
	(2242 kg)	(882 kg)
Magnet base dimensions	4-3/4" x 9-7/16" x 2-1/2" (120 x 240 x 63 mm)	
MPAC (Magnetic Power Adhesion Control)	yes	
Minimum workpiece thickness	3/8" (10 mm)	
Semi-automatic gib backlash adjustment	yes	
Weight	66 lbs 3 oz (31 kg)	
Part number	SM-D4x (115V/60Hz) SM-D4x-230 (230V/50Hz)	
Optional Accessories:		
SM-DC-MT4-I3 Morse Taper #4, 1/2" drill chuck		
SM-DC-MT4-20 Morse Taper #4, 3/4" drill chuck		

SM-UCW-0191-02-00-00-0

Morse Taper #4, arbor for I-I/4" shank cutters





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Fax: 303-690-9172

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303-690-9172

PNEUMATIC DRILLING MACHINE FROM STEELMAX®

DIAIR 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 **D1AIR 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 Specifications			
Air consumption	50 CFM (1400 l/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	18-7/8" 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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For ordering and customer service, or to request detailed product information or demonstration videos, contact:

PNEUMATIC DRILLING MACHINE FROM STEELMAX®

DI75 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)

8

Twist drill 0.75" (20 mm)



Stroke 6" (150 mm)





800 W

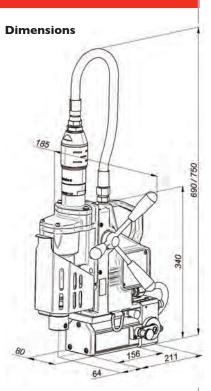


Weight 58.5 lbs (26.5 kg)



PNEUMATIC DRILLING MACHINE FROM STEELMAX®

D175 ATEX Technical Specifications			
Spindle speed (under load)	190 rpm (gear I); 290 rpm (gear II)		
Motor power	800 W		
Weight	58.5 lbs (26.5 kg)		
Max milling capacity	I.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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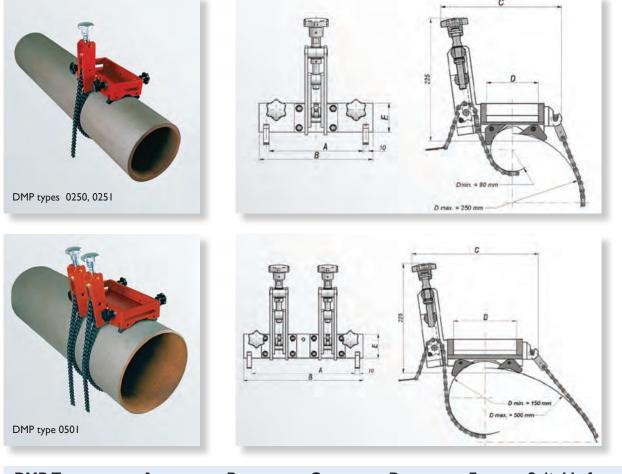
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DRILL ATTACHMENTS FROM STEELMAX®

MAGNETIC DRILL PIPE ATTACHMENTS

MOUNT DRILLS TO PIPES FOR SAFE OPERATION

Our magnetic drill pipe attachments are designed for mounting Steelmax drills on pipes, tubes, tanks, oval workpieces and other parts which can be gripped with mounting chains.



DMP Type	Α	В	С	D	E	Suitable for:
SM-DMP 0250	6"	7-3/8"	8-5/16"	3-5/16"	2-1/16"	D I, DI Pro
	(152 mm)	(188 mm)	(211 mm)	(85 mm)	(52.5 mm)	3" to 9.5" pipe
SM-DMP 0251	6-3/4"	8-3/16"	8-11/16"	3-3/4"	2-1/16"	D2x
	(172 mm)	(208 mm)	(221 mm)	(95 mm)	(52.5 mm)	3" to 9.5" pipe
SM-DMP 0501	9-3/16"	10-5/8"	10-1/16"	5-1/8"	2-1/16"	D2x, D3xrs, D4x
	(234 mm)	(270 mm)	(256 mm)	(130 mm)	(52.5 mm)	6" to 19.5" pipe

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STEELMAX[®] DRILL FEATURES & SPECIFICATIONS









MODEL	DI		DI Auto		DILP	Steelmax	
Drill Operation	Manual		Semi-automat	ic	Manual		
Spindle	_		_	_		_	
Tool holder	3/4" (19 mm)	Weldon	3/4" (19 mm)	Weldon	3/4" (19 mm)	Weldon	
Milling cutter (Core drill) Ø	max I-3/8" (3	36 mm)	max 1-3/8" (30	6 mm)	max I-3/8" (3	36 mm)	
Twist drill Ø	-		_		max 1/2" (12	mm)	
Countersinking Ø	1-9/16" max	(40 mm)	_		max 1-9/16"	(40 mm)	
Max tap size	-		-	-			
Stroke	2-3/4" (70 mi	n)	2-3/4" (70 mm	2-3/4" (70 mm)		n)	
Max depth of cut	2" (51 mm)		2" (51 mm)	,		nm)	
Voltage	115V/60Hz		115V/60Hz		115 V/60Hz		
International Voltage	230V/50Hz		230V/50Hz		230 V/50Hz		
Power consumption	1000 W		1000 W		1000 W		
Motor power	920 W 1.2	HP	920 W I.2	920 ₩ 1.2 HP		920 W 1.2 HP	
Spindle Speed (Under Load)	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		
Magnetic Clamping Force (25 mm, Ra=1.25 mm)	2135 lbs (9500 N)		2135 lbs (950	2135 lbs (9500 N)		00 N)	
ESB (Energy Saving Base)	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 6-5/16" x 1-7/16" (80 x 160 x 36.5 mm)		3-1/8" × 6-5/16" × 1-7/16" (80 × 160 × 36.5 mm)		/16" x 1-1/2" 88.5 mm)	
Swivel base	-		-		-		
Minimum workpiece thickness	I/4" (6 mm)		I/4" (6 mm)	I/4" (6 mm)			
Tapping accessories available	no		no			I/4" (6 mm) no	
Tool Weight	22 lbs (10 kg)		30 lbs (13.5 kg	30 lbs (13.5 kg)		5)	
Part number	SM-DI (115V/60Hz) SM-DI-230 (230V/50Hz)			SM-DIAuto (115V/60Hz) SM-DIAuto-230 (230V/50Hz)		(115V/60Hz) 230 (230V/50Hz)	
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STEELMAX[®] DRILL FEATURES & SPECIFICATIONS









DI Pro		D2x		D3 XRS		D4x		
Manual		Manual		Manual	Manual		Manual	
_		MT2	MT2		MT3		MT4	
3/4" (19 mm) \	Weldon	3/4" (19 mm)	3/4" (19 mm) Weldon		3/4" (19 mm) Weldon		3/4" (19 mm) Weldon	
max I-9/16 " (4	0 mm)	max 2" (51 m	m)	max 3" (76 mr	max 3" (76 mm)		(III mm)	
max 5/8" (16 n	nm)	max 7/8" (23	mm)	max 1-1/4" (32	2 mm)	max I-7/8" (4	ł7 mm)	
max I-9/16 " (4	0 mm)	max 2" (51 m	m)	max 2-1/2" (63	3 mm)	max 2-1/2" (6	53 mm)	
_		_		Reversing feat no tapping atta	ure achment required	M30 (special tapping attachment required)		
4-7/8" (124 mr	n)	6" (153 mm)		8-7/8" (225 mr	8-7/8" (225 mm)		mm)	
2" (51 mm)		3" (76 mm)		3" (76 mm)	3" (76 mm)			
115 V/60Hz		115V/60Hz		115V/60Hz	115V/60Hz			
230 V/50Hz		230V/50Hz		230V/50Hz		230V/50Hz		
1140 W		1300 W		1800 VV		1800 W		
1020 W 1.4	HP	1260 W 1.	7 HP	1650 W 2.2	. HP	1650 W 2	2 HP	
440 RPM		200 or 400 RI	PM	80/160 and 21	80/160 and 210/420 RPM		85/135 and 160/250 RPM	
_		_	_		yes		yes – LED light	
no		no	no		yes		no	
_		_	-		yes		-	
yes		yes	yes		yes			
_		_	-		yes			
yes		yes	yes		yes			
2200 lbs (9800) N)	2697 lbs (120	2697 lbs (12000 N) 4383 lbs (19500 N)		00 N)	4945 lbs (220	000 N)	
yes		yes	1	_	1	_	1	
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)	4383 lbs (1987 kg)	1779 lbs (806 kg)	4945 lbs (2242 kg)	1 945 lbs (882 kg)	
3-5/16" x 6-5/8 (84 x 168 x 41			4-5/16" x 8-11 (110 x 220 x 5		4-3/4" × 9-7/ (120 × 240 ×			
_		_		⁺ 15°; ⁺ 9/16" (15 mm)		_		
I/4" (6 mm)		5/16" (8 mm)			3/8" (10 mm)		3/8" (10 mm)	
10		no		yes				
28 lbs (12.7 kg)	35 lbs 5 oz (1	6.5 kg)	58 lbs 6 oz (27	58 lbs 6 oz (27 kg)		31 kg)	
SM-DIPRO		SM-D2X (I	15V/60Hz)	SM-D3XRS	(115 V/60Hz)	SM-D4X (I	15V/60Hz)	
	230 (230V/50Hz)	SM-D2X-2	30 (230V/50Hz)		-230 (230 V/50Hz)		30 (230V/50Hz)	
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DCAP 09/2019

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DRILL ACCESSORIES FROM STEELMAX®

Industrial Arbors & Drill Chucks

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



SM-DC-MT2-13	I/2" Drill chuck for D2 & D2×
SM-DC-MT3-13	I/2" Drill Chuck for D3xRs Drill
SM-DC-MT3-20	3/4" Drill Chuck for D3xRs Drill
SM-DC-MT4-13	I/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 D1 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-I/4" Weldon Shank Cutters
SM-IA-MT4-125	4MT Industrial Arbor for I-I/4" Weldon Shank Cutters
SM-IA-R8	R8 Industrial Arbor

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

F-IQ	Quart
F-IG	Gallon
F-55G	55-Gallon Drum (special order)
	Cullott

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

Made in USA.

877-833-5629

STEELMAX.COM

Automatic Self-Reversing Tapping Heads

PRODUCE GAGE PERFECT THREADS QUICKLY 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-H

SM-H

-	
R2	Reversing tapping head with MT3 1/8" - 1/2" (3 - 12 mm)
R3	Reversing tapping head with MT3

5/16" - 3/4" (8-20 mm)



Magnetic Pick-Up Tool SAFETY FIRST!

Never pick up metal chips or shavings again. This handy magnetic tool helps you put safety first.

- Safely remove metal chips and debris from machinery and work areas using the Steelmax magnetic pick-up tool.
- The slide action lever instantly demagnetizes the tool which releases chips for quick and safe disposal.
- Available in 10" and 15" lengths

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PART NUMBERS	SIZE	
SM-MPI0	I0" tool	
SM-MP15	I 5" tool	
		Alla .

DRILL ACCESS 09/2019

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Fax: 303-690-9172

VACUUM PAD FOR MAG DRILLS FROM STEELMAX®

VACUUM PAD FOR MAG DRILLS

SAFE AND SECURE DRILLING ON ANY SURFACE

Vacuum Pad is a special type of clamping device for compact mag drills. It enables magnetic drilling machines to effectively operate on non-ferrous materials, where it is impossible to fit the magentic base of a drill directly to the workpiece.

The **Vacuum Pad** provides the ability to drill on non-magnetic or this surfaces and materials with certain surface imperfections. It is intended for use with stainless steel, aluminum and thin carbon steel plates.

FEATURES

- Enables drilling in flat non-ferrous materials
- For use with Steelmax Mag Drill models D1, D2, D3, D4 and D1 LP
- Includes 2-meter pump connection hose
- 2 possible configurations vacuum supply (standard) compressed air supply (optional)
- Product Code: SM-0587-10-00-00-0



VACUUM SUPPLY (standard configuration)



COMPRESSED AIR SUPPLY (optional configuration)





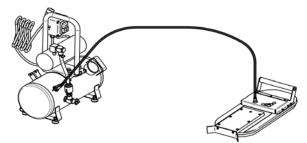
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VACUUM PAD FOR MAG DRILLS

STANDARD CONFIGURATION-VACUUM SUPPLY

Portable vacuum pump with safety reservoir - Ideal Solution for working tofether with vacuum pad

AGR-0541-10-20-00-0 for 230 V AGR-0541-10-10-00-0 for 115 V with UK plug



Optional Configuration-compressed air supply

Optional compressed air ejector generates a vacuum thanks to high flow speed of air according to the Bernoulli principle. The vacuum pad equipped with the compressed air ejector can be an effective solution in numerous industrial plants and workshops, where compressed air pipe system is widely utilized.

Compressed air ejector SMZSP-0587-11-00-00-0

Compressed Air

COMPRESSED AIR SUPPLY (optional configuration) Vacuum pad equipped with compressed air ejector

Gauge pressure*	'-0.8 bar (-11.5 psig
Connection	Quick Coupling DN 7.
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 mn
Drilling depth decrease	40 mm (1-9/16"
	488 mm x 214 mm x 107mn
Dimensions	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-0587-10-00-00-0

Equipment configurations

Using vacuum pad results in decreasing regular depth of cut by 40 mm.

Maximum depth of cut depends on configuration in use.







Pilot pin

Annular cutter 50 mm extension • Product code: PRD-000004 • Requires pilot pin (see table)



TECHNICAL SPECIFICATIO	N OF VACUUM PAD FOR M	AG DRILL – COMPRESSED AIR SUPPLY
Supply		6 bar (87 psi)
Connection		Quick-coupling fitting DN 7.2
Air consumption		4 m3/h (141 ft3/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 (34–104°F)
Diameter of supply hose extension (if neede	8 mm	
Maximum total length of supply hose (includ	10 m	

STEELMAX[®] 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

Steelmax TCT cutters are made with the highest quality carbide available and are extremely well suited to work on harder materials and higher speed applications. TCT cutters are most cost effective for larger holes (over 1-1/2" in diameter) and 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[®] HSS ANNULAR CUTTERS

M2AL HSS Annular Cutters

Diamater	Decimal	I" DOC	2" DOC	4" DOC	6" DOC		
Diameter	Equivalent	Part Number	Part Number	Part Number	Part Number		
7/16"	0.4375	SM-AC-04375-1	SM-AC-04375-2				
1/2"	0.5000	SM-AC-05000-1	SM-AC-05000-2	diameters SM-AC-06875-4 SM-AC-07500-4			
9/16"	0.5625	SM-AC-05625-1	SM-AC-05625-2				
5/8"	0.6250	SM-AC-06250-1	SM-AC-06250-2				
11/16"	0.6875	SM-AC-06875-1	SM-AC-06875-2				
3/4"	0.7500	SM-AC-07500-1	SM-AC-07500-2	SM-AC-07500-4			
13/16"	0.8125	SM-AC-08125-1	SM-AC-08125-2	SM-AC-08125-4	r		
7/8"	0.8750	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		
la	1.0000	SM-AC-10000-1	SM-AC-10000-2	SM-AC-10000-4	SM-AC-10000-6		
1-1/16"	1.0625	SM-AC-10625-1	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				
1-5/16"	1.3125	SM-AC-13125-1	SM-AC-13125-2				
1-3/8"	1.3750	SM-AC-13750-1	SM-AC-13750-2				
1-7/16"	1.4375	SM-AC-14375-1	SM-AC-14375-2				
1-1/2"	1.5000	SM-AC-15000-1	SM-AC-15000-2				
1-9/16"	1.5625	SM-AC-15625-1	SM-AC-15625-2				
1-5/8"	1.6250	SM-AC-16250-1	SM-AC-16250-2				
1-11/16"	1.6875	SM-AC-16875-1	SM-AC-16875-2				
1-3/4"	1.7500	SM-AC-17500-1	SM-AC-17500-2				
1-13/16"	1.8125	SM-AC-18125-1	SM-AC-18125-2	Other sizes available b	a starting and a starting of the starting of t		
1-7/8"	1.8750	SM-AC-18750-1	SM-AC-18750-2	call for more	information.		
1-15/16"	1.9375	SM-AC-19375-1	SM-AC-19375-2				
2"	2.0000	SM-AC-20000-1	SM-AC-20000-2				
2-1/16"	2.0625	SM-AC-20625-1	SM-AC-20625-2				
2-1/8"	2.1250	SM-AC-21250-1	SM-AC-21250-2				
2-3/16"	2.1875	SM-AC-21875-1	SM-AC-21875-2				
2-1/4"	2.2500	SM-AC-22500-1	SM-AC-22500-2				
2-5/16"	2.3125	SM-AC-23125-1	SM-AC-23125-2	No.			
2-3/8"	2.3750	SM-AC-23750-1	SM-AC-23750-2	-			

Pilot Pins included with 1", 2" and 4" DOC cutters. Pilot Pin for 6" DOC cutters must be purchased separately



The tools of innovation.

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

STEELMAX[®] TCT ANNULAR CUTTERS

TCT Annular Cutters

		STEE	LMAX TCT ANNULA	AR CUTTERS						
Diameter	Decimal Equivalent	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	No.	Available in These Diam					
5/8"	0.6250	SM-AC-TC-06250-1	SM-AC-TC-06250-2	INOL	Available in These Diam	valiable in these blameters				
11/16"	0.6875	SM-AC-TC-06875-1	SM-AC-TC-06875-2	dente a contra da	00.3 SM-AC-07500.4 SM-AC-TC-07500					
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-				
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-				
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-				
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-				
the state	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-				
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-				
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-				
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-				
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. Plea e information.				
1-7/8"	1.8750	Available by Special	SM-AC-TC-18750-2	SM-AC-TC-18750-3	can for more	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 Pins included with 1", 2" and 4" DOC cutters. Pilot Pin for 6" DOC cutters must be purchased separately





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STEELMAX[®] 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-1	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 28mm 1.1024					
				29mm	1.1417
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-1	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-1	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-1	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-1	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-1	SM-AC-50-M-2		



Pilot Pins included with all metric HSS cutters



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

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STEELMAX[®] ANNULAR CUTTERS

	CUTTE	
Diameter	Decimal	2" DOC
	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 Pins included with large diameter TCT **Annular Cutters**



The tools of innovation.

STEELMAX[®] ANNULAR CUTTER SETS

Steelmax Cutter Set SM-AC-SET-7-I I" Depth of Cut, 3/4" Shank

Cutter Diameter	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
I-I/I6"	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							
1"	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" Weldon Shank							
Diameter	Decimal Equivalent	Depth of Cut	Part Number				
I/4"	0.2500	2"	SM-AC-TB-02500-2				
5/16"	0.3125	2"	SM-AC-TB-03125-2				
3/8"	0.3750	SM-AC-TB-03750-2					

	Quick Ch	Quick Change Adaptors for 3/4" Weldon Shank Cutters*								
I" DOC HSS Cutters		2" DOC HSS Cutters 2" DOC TCT Cutters	3" DOC TCT Cutters							
	Adapator	SM-NDA-634	SM-NDA-634	SM-NDA-798						

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

SM-PP-04



Pilot Pin

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

SM-PP-19

Steelmax Cutter Set SM-AC-SET-I3-I 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
l"	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-I3-2 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





SM-PP-20

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

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PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

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

SM-HP700 Hydraulic Punch Power Pack

HP60/HP110 Round Hole Capacities

max

(60,000 PSI Shear Strength Material)

Plate Thickness	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8
HP60'	1-1/16	1-1/16	1-1/16	1-1/16	1-1/16	I.	13/16	3/4	-	-
HPI10 ²	1-1/16	1-1/16	1-1/16	1-1/16	1-1/16	1-1/16	1-1/16	I	7/8	3/4

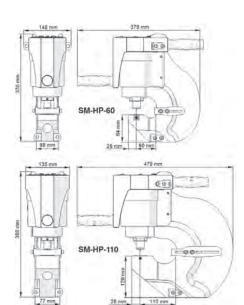
1. HP 60 maximum plate thickness is 1/2"

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



PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

TECHNICAL SPECIFICATIONS			
Portable Double-Action Hydraulic Punch	SM-HP60	SM-HPI I O	
Max. throat depth	2-3/8" (60 mm)	4-5/16" (110 mm)	
Max. hole*	I-1/16" (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 SM-HP700		
Power supply* 230V/50Hz; 115V/60Hz		
Motor power I 500 W		
Working pressure 10,000 psi		
Pump output I.5 L/min		
Oil capacity I0 L		

*Contact Steelmax for other voltage options



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









American Welding Society Supporting Company Member

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

Fax: 303-690-9172

STEELMAX.COM

sales@Steelmax.com

877-833-5629

All information is subject to change without notice.

,0J-070-7172

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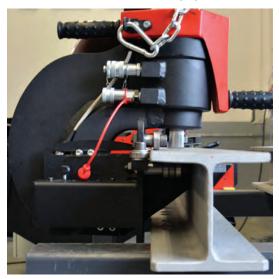
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PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

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.





Overhead Support for Punch SM-ZUR-0517-15-00-00-0

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

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
I	1.0000	SM-HP-P-1000	SM-HP-D-1000
/ 6	1.0625	SM-HP-P-1063	SM-HP-D-1063
Slat aires in stack At	har aizaa quqilahla bu abacial arda	r	

Slot sizes in stock. Other sizes available by special order.



www.steelmax.com

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 **S7XP** 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

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





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METAL CUTTING SAW FROM STEELMAX®

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

Steelmax S9XP Technical Specifications

Cutting capacity	3-1/4" profile 1/2" solid
Weight	20 lbs
Blade diameter	9"
Arbor	1"
RPM	2300
Beveling/Mitering	Beveling/45°
Motor	15 amps; 120V/1750VV 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®

SI4 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®

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





Cermet Tipped Blades

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

- · 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





Tungsten Carbide Tipped 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 I/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-14	66T	1.0"	1450	Mild Steel (less than I")
14.0"	SM-BL-14-TS	90T	1.0"	1450	Thin Mild Steel (less than 1/4")
14.0"	SM-BL-14-AL	100T	1.0"	1450	Aluminum (up to 3/8")
14.0"	SM-BL-14-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-07-5	36T	20 mm	5500	Mild Steel (less than 5/16")
7.25"	SM-BL-CT-07-5-SS	64T	20 mm	5500	Stainless Steel (less than 1/8")
9.0"	SM-BL-CT-09	44T	1.0"	3500	Mild Steel (less than 1/2")
9.0"	SM-BL-CT-09-SS	76T	1.0"	3500	Stainless Steel (less than 1/8")
14.0"	SM-BL-CT-14	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

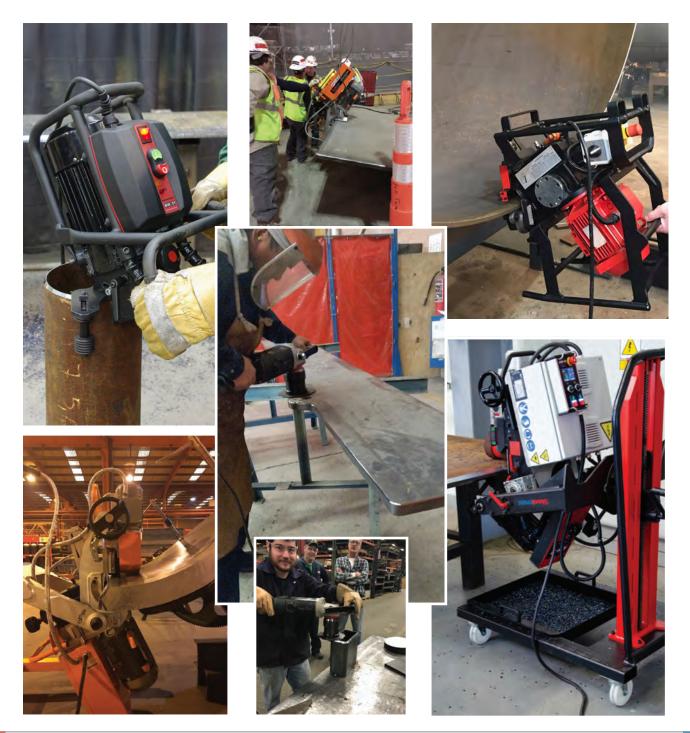


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PLATE & PIPE BEVELING SOLUTIONS



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BEVINTRO 09/2019

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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



Top beveling

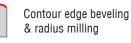
Bevel angles
 45° (standard)
 30° (optional)



Radius edge milling R2, R3, R4 or R5

ONE

Universal Milling Head



Min plate thickness 1.5 mm



Countersinking Min. ID 1.38" (35 mm)

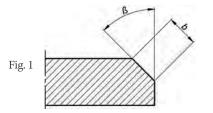


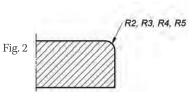


Pipe ID beveling Min. ID 1.57" (40 mm)

BM7 Technical Specifications	
-------------------------------------	--

Power Supply	110-120 V, 50–60 Hz or
	220-240 V, 50–60 Hz
Spindle Speed (Without Load)	6500 rpm
Maximum Bevel Width (b)	0.30" (7mm); Fig. I
Povel Angle (R depending on milling head)	45° (standard); 30° (optional);
Bevel Angle (ß, depending on milling head)	Fig. I
Minimum Diameter for Countersinking	I.38" (35mm)
Dimensions (L \times W \times H)	13" x 5.6" x 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



• SM-UST-0509-16-00-00-0 Radius positioner (R2, R3, R4, R5)



Radius edge milling



Contour edge beveling and radius milling



Plate beveling



45° Milling Head for Beveling & Radius Edge Milling
30° Milling Head for Beveling
Beveling Insert for Steel (4 Required)
Beveling Insert for Aluminium (4 Required)
Anti-Abrasion Plate for Aluminum Milling
Radius Insert R2 (4 Required)
Radius Insert R3 (4 Required)
Radius Insert R4 (4 Required)
Radius Insert R5 (4 Required)
Radius Edge Milling Depth Setting Tool

Spare and Wearing Parts:

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





Countersinking



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BMI6 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





BM16 Technical Specifications		
Devues and a hi	110-120V/50-60Hz or	
Power supply	220-240V/50-60Hz	
Motor	2200W 3.0 HP	
Motor speeds (without load)	1800 - 5850 rpm	
Maximum bevel width	b=5/8" (16 mm) see figure 1	
Bevel angles (β) depending	22.5, 30, 37.5, 45, 60, degrees	
on milling head	22.3, 30, 37.3, 13, 00, degrees	
Min. material thickness	1/8" (1.5 mm)	
Min. diameter of countersink	ca I-9/16" (40 mm)	
Beveling with radius	R2, R3, R4, R5 see figure 2	
Dimensions $(I, y) \wedge (y, H)$	23" x 6.1" x 9.4"	
Dimensions ($L \times W \times H$)	(585 x 156 x 238 mm)	
Weight (without milling head)	22 lbs (10 kg)	
Deute aussieheure	SM-BM16 (110-120V/50-60Hz)	
Part numbers	SM-BM16-230 (220-240/50-60Hz)	

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

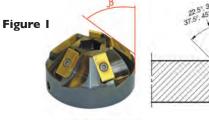
Spare and wearing parts:

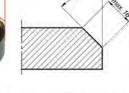
SM-SRB-000289	Mounting Screw for Radius Milling Head	
SM-SRB-000290	Mounting Screw for Beveling Milling	
Head SM-RLK-0509-03-00-	-00-0	Guiding Roller

Basic set:

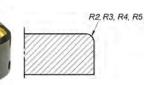
- BM16 beveling machine
- Metal box
- 32 mm flat wrench
- Allen wrench hex s=5
- Allen wrench hex s=14
- · Operator's manual

Milling head and inserts sold separately.











Radius edge milling depth setting tool



. ID ≥ 110 mm OD ≥ 150 mm











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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)

Bevel angles 15°-60°



Top beveling

required)

(Optional accessory

Plate Facing

(Optional accessory required)



required)

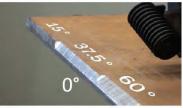
Pipe beveling 6" - 12" (150 - 300 mm) OD 10" - 24" (260 - 600 mm) OD

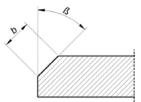


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BM20 Plus Technical Specifications		
Voltage	115V/60Hz or 230V/50Hz	
Power	1800 W Induction Motor	
Spindle Speed	2820 rpm	
Tooling	Two milling heads with 10 square cutting inserts	
Max Bevel Width	13/16" (21 mm) (see fig. 1)	
Bevel Angle	15° - 60° (see fig. 1) 0° (see Facing Attachment)	
Weight	45 lbs (20.5 Kg)	
Part Number	SM-BM20+ (115V/60Hz) SM-BM20+-230 (230V/50Hz)	







ß	۱5°	30°	45°	60°
Ь	21 mm	20.5 mm	21 mm	20.5 mm

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 (1 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



Plate beveling



Plate facing (option)



Pipe beveling (option)



Large Pipe beveling attachment 10" - 24" (260 - 600 mm) 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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BM21 PORTABLE BEVELING MACHINE

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

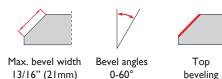
Reduce your costs and lay the foundation for high-quality welds with the Steelmax BM21. Inaccurate bevels and poor weld preparation are often the root cause of weld defects and excessive welding costs. This machine utilizes a high-speed rotary milling head with ten carbide inserts to produce precise 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 weld-ready 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



Facing Max 13/16" (21mm)



OD 6 - 12"; option: OD 10 - 24"

Vibration dampers roduce smoot operation



STAINLESS STEELS also available

The tools of innovation.

Special model BM-21SS with lower speed motor dedicated for machining

BM21 Technical Specifications		
Voltage	115V 60 Hz or 230V 50 Hz	
Power	1800 W Induction Motor	
Spindle Speed	2820 RPM	
Tooling	Integrated Milling Head with 10 Square Carbide Inserts	
Bevel Angle	0° - 60° Continuous Angle Adjustment	
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



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



CE

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Mono block milling head, with 10 indexable inserts.



Continuous angle adjustment from 0 to 60 degrees.

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

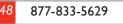




The BM21 incorporates industry leading antivibration technology for more comfortable operation and extended machine life.

Testing indicates that this new anti-vibration system reduces vibration by up to 37% over comparable machines.





STAINLESS STEEL PLATE & PIPE BEVELER FROM STEELMAX®

BM2ISS

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 **BM21 SS** 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 **BM21 SS** 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

Top beveling

- · 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



Max. bevel width I3/I6" (21 mm)

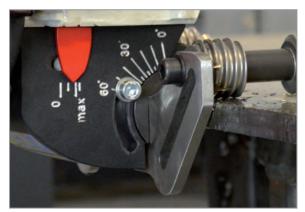
Bevel angles 0-60°

Facing off

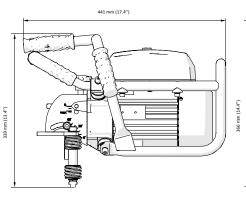


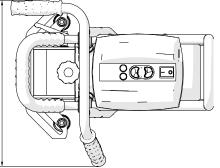
Pipe beveling OD 6 - 12" (150-300 mm) OD 10 - 14" (260-600 mm) (option)

BM21 SS Technical Specifications		
Voltage	115V 60 Hz or 230V 50 Hz	
Power	1800 W Induction Motor	
Spindle Speed	1560 RPM	
Tooling	Integrated Milling Head with 10 Square Carbide Inserts	
Bevel Angle	0° - 60° Continuous Angle Adjustment	
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)	



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)



Plate facing

877-833-5629



Plate beveling



Pipe beveling





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AUTO-FEED BEVELING MACHINE FROM STEELMAX®

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

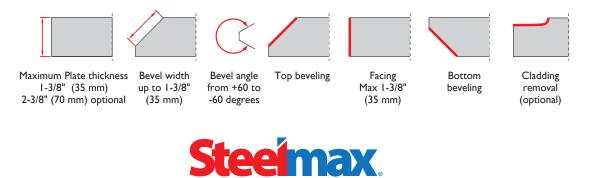
FEATURES:

- 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.

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AUTO-FEED BEVELING MACHINE FROM STEELMAX®

ABM28 TECHNICAL SPECIFICATIONS		
Voltage	~220–240 V, 50–60 Hz	
Power	1600 W	
Spindle speed (no load)	2780 rpm	
Bevel angle (b)	60 to -60°	
Maximum bevel width (b)	I-3/8" (35 mm)	
Feed speed	10"-20"/minute (250 mm-500 mm/min)	
Plate thickness	I-3/8" (35 mm); 2-3/4" (70 mm) option	
Weight	173 lbs. (70.5kg)	







Milling head SM-GLW-000013

Replacement cutting inserts - 7 required SM-PLY-000282

Standard shipping set:

- I. Carriage mounted on a guide track
- 2. Milling unit
- 3. Milling unit support for beveling at 60° to -60°
- 4. Additional guide track section
- 5. Track clamp for 3/8"-1-3/8" (10-35 mm) thick plates (3 pcs)
- 6. Chip container
- 7. Set of tools
- 8. Clamp for 3/8"-1-3/8" (10-35 mm) thick plates (2 pcs)
 - 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-UST-0152-15-01-00-1 Track clamp for 1-3/8" to 2-3/4" (36-70 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-0518-07-01-00-0

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





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PLATE & PIPE BEVELER FROM STEELMAX®

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
- · Optional trolley with 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









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Bevel width up to 3/4" (18 mm)

Bevel angles 22.5°, 25°, 30°, 35°, 37.5°, 45°

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

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

Тор bevelina

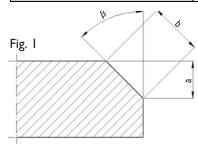
Bottom beveling

4" (100 mm)

PLATE & PIPE BEVELER FROM STEELMAX®

ABM 1218 FR Technical Specifications		
Voltage	480V, 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. I)	3/4" (18 mm)	
Maximum Bevel in a Single Pass	1/2" (12 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	144 lbs (65 Kg)	
Part Number SM-ABM-1218 FR		





Standard Set Includes:

- ABM 1218 Beveling machine
- 30° Bevel angle attachment
- 3 cutting wheels 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
- 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





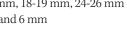


• SM-ABM-TR Optional Trolley easily inverts machine for creation of Double-Sided bevels.



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Cutting wheel for mild steel

Cutting wheel for aluminum

22.5° Bevel angle attachment

25° Bevel angle attachment

30° Bevel angle attachment

35° Bevel angle attachment

45° Bevel angle attachment

37.5° Bevel angle attachment

Cutting wheel for stainless steel



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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 ABM-50 uneven floors. GH 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 Bevel width Min plate thickness 5/16" (8 mm) Bottom Bevel angles Top beveling up to 2" (50 mm) / 45° top 15° - 60° beveling Max plate thickness 3-1/8" (80 mm) up to 2-5/8" (66 mm) / 15° bottom 15° - 60° **Steelmax**

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
- · Variable spindle speed for milling ferrous and non-ferrous materials including high tensile strength materials
- 180° inversion allows for quick and easy creation of double-sided bevels.
- · Rotary milling head with carbide inserts produces an accurate, high-quality finish without thermal distortion that is weld ready
- · Built-in overload protection
- Floating trolley compensates for uneven floors
- · 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.

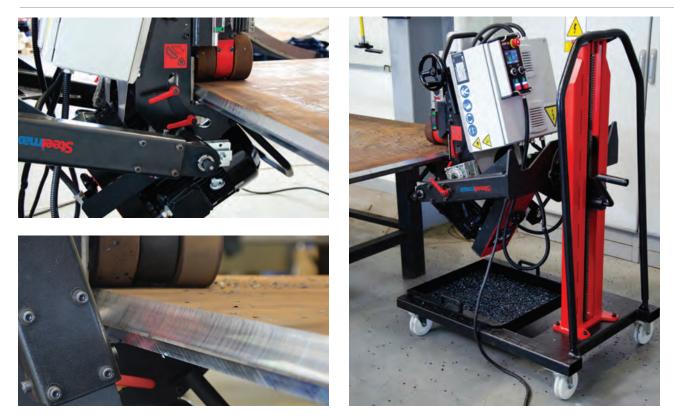




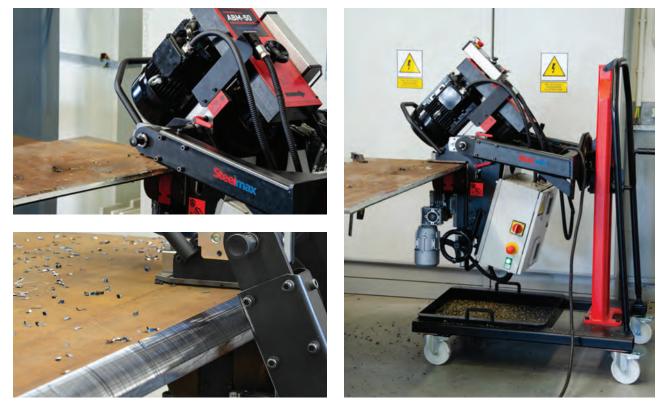
The ABM50 creates bevels with a maximum bevel width of 2" (50 mm) at 45 degrees.



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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Voltage	380 - 480V 3 Phase 50-60H 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	

ABM50 Bevel Capacities (Fig. I)		
β	b	# of passes
15°	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



Cutting insert I piece (8 required, sold 10 per box) Item 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 I0pcs/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

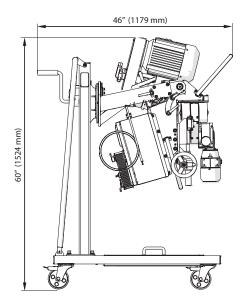
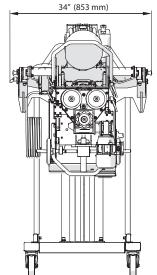


Fig. I







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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)



Edge Beveling

Bevel width

up to 1-3/16"

(30 mm)

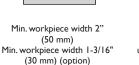


Bevel angles 15° - 60°

continuous adjustment



Min. workpiece length 6" (150 mm)





Pipe OD beveling from 2" (50 mm) up to 6" (150 mm) (option)



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

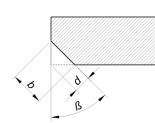


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max

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)		
	1/8" - 4"		
Plate Thickness Range	(3 - 100 mm)		
Maximum Material Weight	220 lbs (100 Kg)		
Pound Stock Pongo	2" - 6"		
Round Stock Range	(50 -150 mm)		
Maximum Square/Rectangular	4" x 4"		
Tubing Dimensions	(100 x 100 mm)		
Minimum Angle Drefile	2" x 2"		
	(50 x 50 mm)		
Voltage	480V, 3 Phase, 50/60 Hz		
Weight	1,910 lbs (865 Kg)		
Part Number	SM-SBM500		
With optional accessoryPlate Thickness RangeMaximum Material WeightRound Stock RangeMaximum Square/Rectangular Tubing DimensionsMinimum Angle ProfileVoltage Weight	1-3/16" (30 mm) 1/8" - 4" (3 - 100 mm) 220 lbs (100 Kg) 2" - 6" (50 -150 mm) 4" x 4" (100 x 100 mm) 2" x 2" (50 x 50 mm) 480V, 3 Phase, 50/60 Hz 1,910 lbs (865 Kg)		



β	۱5°	30°	45°	60°
b	30 mm	30 mm	30 mm	30 mm

Fig. I.

Bevel dimensions; maximum bevel width depending on the angle

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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High-quality bevel results



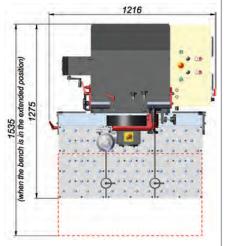
Easily machine various materials



Auxiliary tables to accommodate long workpieces



OD pipe beveling





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SBM500 05/2019

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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 $5 \frac{1}{2}$ " (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

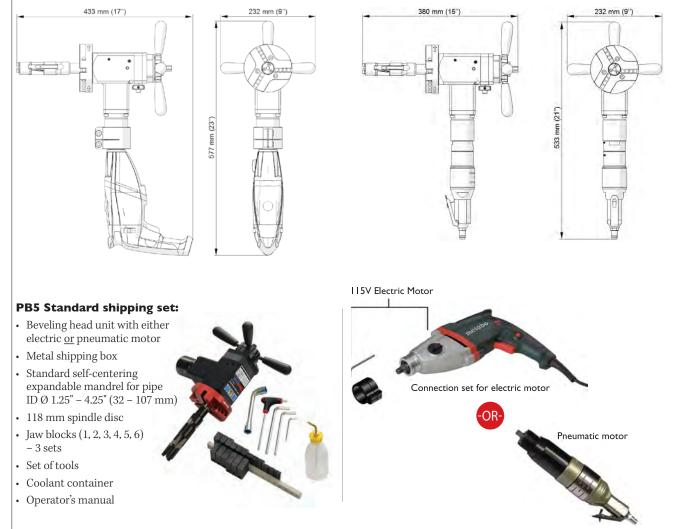
PB5-E / PB5-P Technical Specifications				
	PB5-E	PB5-P		
Motor Drive	Electric	Pneumatic		
Motor Power	1,100 Wats	800 Wats		
Speed Range	0-300 RPM 90 RPM			
Power Supply Options	110-120V/50-60 Hz or 220-240V/50-60 Hz NA			
Air Requirements	NA 56.5 CFM (1600 L/min) / 87 PSI (0.6 Mpa			
Operating Weight (with Motor)	24 lbs (11 kg) 22 lbs (10 kg)			
Min/Max Pipe Sizes (Min ID/Max OD) - Standard Mandrel	I.26" ID/4.49" OD (32 mm ID/114 mm OD)			
Min/Max Pipe Sizes (Min ID/Max ID) - Small Mandrel	I" ID/I.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)			

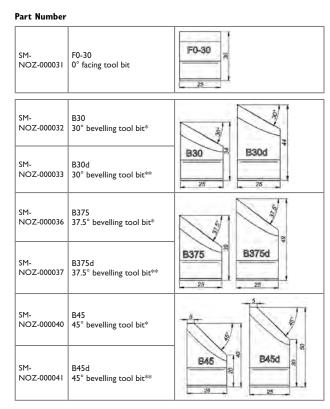
				Maximum A	Allowable Pipe	Schedule				
Nominal Pipe Diameter	1"	1 1/4"	/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"
Maximum Pipe Schedule	SCH 40S/40/STD	SCH 80/80XS	SCH 160	XXS	SCH 160	SCH 160	SCH 80/80XS	SCH 120	SCH 40S/40/STD*	SCH 40S/40/STD*
* Requires optional 5 1/2" (140 mm) spindle disk set.										

Maximum Allowable Pipe/Tube Wall Thickness					
Dia / Tuba Sian Danas	l" - 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





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

 $\ast\ast$ For pipe diameters under 3.26" (83 mm), long beveling tool bit must be used in conjunction with 0° facing tool bit

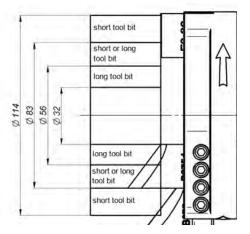


Part Number 18 SM-IC15-40 NOZ-000052 15° internal counterbore tool bit IC15-40 SM-15° internal counterbore tool bit – for diameters over 2.2" (56 mm) NOZ-000053 R 6 0 J10-R6 10° J-bevelling tool bit SM-R2 NOZ-000058 J10-R6 J15-R2 JI5-R2 I5° J-bevelling tool bit SM-NOZ-000057 120-R8 J20-R8 20° J-bevelling tool bit SM-NOZ-000059



Wide range of tool bits for various applications.

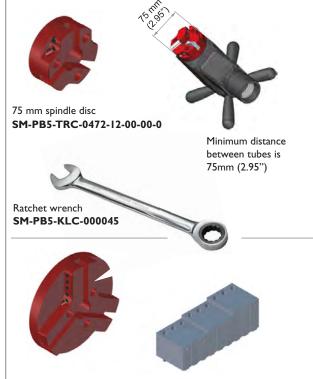
When using 0° facing tool bit in conjunction with beveling tool bit, either long or short beveling tool bit is used depending on pipe diameter.



PB5 PIPE BEVELING MACHINE FROM STEELMAX®

Optional Accessories

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



Extension set for OD \emptyset 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

Item	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

PB5 Small Expanding Mandrel (1" - 1-1/4" ID)





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

STEELMAX.COM

sales@Steelmax.com

Fax: 303-690-9172

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CE



PBIO 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.

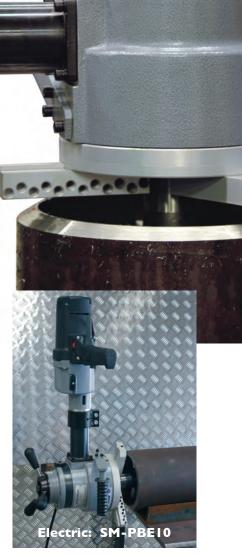
The **PB10** is able to bevel, face off, chamfer and counterbore, making all these weld prep operations quick and simple.

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





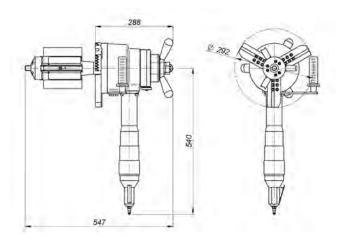


PB10 Technical Specifications			
Pipe machining range	Min I.D.– 1.6" (40 mm) Max I.D.– 10-9/16" (269 mm) Wall thickness: up to .60" (15 mm) Minimum Pipe Length: 7-1/2" (190 mm)		
Part number	SM-PB10		
Pneumatic motor	1500VV 2.0 HP		
Power requirements	1750 l/min (61.7 cfm) at 630 kpa (90 psi)		
Headstock speed range	5 to 18 rpm		
Part number	SM-PBEI0		
Electric motor	1800₩		
Supply	115V/60Hz or 230V/50Hz		
Headstock speed range	14 to 32 rpm		

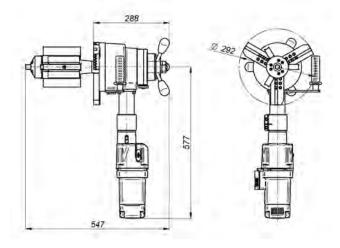


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Pneumatic: SM-PB10



Electric: SM-PBE10





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atoreter.

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	45° Internal beveling tool bit, height 2.1" (54 mm)		
SM-NOZ-000001	15° Internal calibration tool bit, height 2.2" (55 mm)		
SM-NOZ-000022	15° J-beveling tool bit, height 50mm, radius 0.08" (2 mm)		
SM-NOZ-000016	20° J-beveling tool bit, height 50mm, radius 0.31" (8 mm)		

37,5°

37,5°

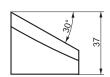
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54

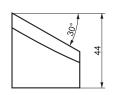
Standard shipping set:

- 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

Beveling Tool Bits



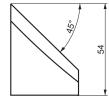
B30/37



B30/44

B375/54

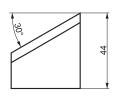
B375/44



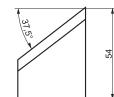
B45/54



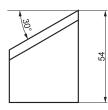




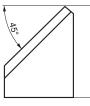
IB30/44



B375/54



B30/54



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J-Beveling Tool Bits

Additional Equipment:

SM-PRK-0447-00-00-2

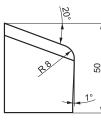
SM-PRK-0463-00-00-00-1

SM-ZSP-0200-05-00-00-2

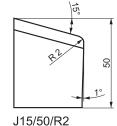
SM-ZST-0200-13-00-00-2

SM-ZST-0200-12-00-00-0

SM-ZST-0200-12-00-00-1



J20/50/R8



3-3/8" (38 – 86 mm)

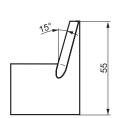
Electric motor set 230V

Electric motor set 115V US plug

20" (90 - 508 mm), delivered in a metal box

Self-centering expandable Mandrel for pipe I.D. Ø 1-1/2 -

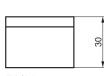
tool holders and jaws 7-12, delivered in metal box



ID Chamfer Tool Bit

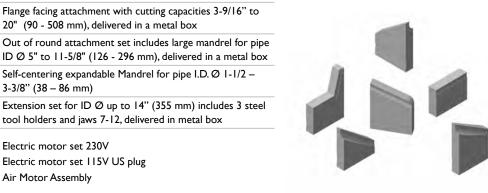
IC15/55

FacingTool Bit



F0/30

Custom made versions of toolbits are available on request.





SM-ZSP-0200-03-00-00 Air Motor Assembly















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PB10 09/2019

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MPB26 & APB32 PIPE BEVELING SYSTEMS

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

The Steelmax **MPB26** and **APB32** pipe beveling systems produce consistent, high-quality weld preparations in a single pass. With manual or automatic feed, the **MPB26** and **APB32** 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** and **APB32** 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.

The **MPB26** 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** 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** can bevel pipe of any diameter over 32", making this an incredibly versatile solution.



MPB26 Manual Pipe Beveling Machine



APB32 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



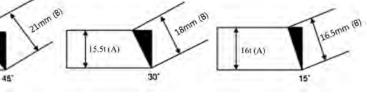
PORTABLE PIPE BEVELING MACHINES FROM STEELMAX®

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)-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)	1/8" (3 mm)			
Maximum Pipe Wall Thickness	3/4" (20 mm)	3/4" (20 mm)			
Weight	41 lbs (18.6 kg)	90 lbs (41 kg)			



Easily set the bevel depth

Optional speed controller optimizes milling speed for harder materials such as Stainless steel



Accessories

15t (A)

SM-PB-CM2100-SC	Speed Controller for APB-32 and MPB-26 Pipe Beveling Machines
SM-PB-AP1020-LD	APB-32 Pipe Attachment for Pipe Diameters Above 32"



Spare & Wearing Parts

SM-PB-CM2100-CA	Cutter Head Assembly for APB-32 and MPB-26 (without inserts)
SM-PB-CM2100-10	Cutting inserts (Package of 10)
SM-PB-CM2100-09	Cutter Wedge for APB-32 and MPB-26 (each)
SM-PB-CM2100-08	Cutter Insert Screw (each)









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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" (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

Stainless Steel machining is now possible. Pipe OD Bevel angle Pipe OD Facing from 0° to 60° 8"-40" beveling



Max bevel

width I-3/4"



Pipe J-groove beveling



The tools of innovation.

HIGH-SPEED PIPE BEVELING SYSTEM FROM STEELMAX®

PBM 1000 TECHNICAL 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) length		
Maximum allowed pipe weight	13,200 lbs. (6000 kgs) with standard rollers. Up to 22,000 lbs. (10,000 kgs) with optional steel rollers		
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

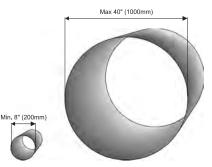
• SM-PLY-000282 Cutting inserts for beveling

• SM-ZST-0436-25-00-00-0 Stainless Steel Set

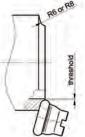
• SM-GLW-000013 Standard Milling head (7 inserts required)

SM-WSP-0436-24-00-00-0 Oval Pipe Tracking Attachment

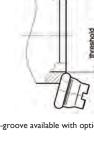
• SM-GLW-000014 J-groove R6 milling head (6 inserts R6 required) • SM-PLY-000198 Cutting insert for J-groove R6 end preparation SM-GLW-000015 |-groove R8 milling head (5 inserts R8 required) • SM-PLY-000201 Cutting insert for J-groove R8 end preparation



Range of diameters from 8" up to 40" (200-1000mm)



R6 & R8 J-groove available with optional milling heads



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



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



User-friendly control panel



Optional heavy-duty pipe support with 11-ton capacity



Shields and internal lighting increase safety and comfort of the operator



Optional Oval Pipe Tracking Attachment allows out of round pipe beveling





CE

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LIFTING MAGNETS FROM STEELMAX®

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









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.











	Load Characteristic Plate						
Part number	Model	Max Ib	load kg	Min thi in	ickness mm	Max I in	ength mm
SM-ML125	Max Lifter 125	275	125	3/4	20	39	1000
SM-ML250	Max Lifter 250	550	250	3/4	20	59	1500
SM-ML500	Max Lifter 500	1100	500	I	25	78	2000
SM-MLI000	Max Lifter 1000	2200	1000	1-1/2	40	118	3000
SM-ML2000	Max Lifter 2000	4400	2000	2	55	118	3000

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

Load Characteristic Round Stock

Technical Data									
Part number	Model	We Ib	ight kg	Ler in	ngth mm	Wid in	th mm	Hei in	ight mm
SM-ML125	Max Lifter 125	8. I	3.7	4.8	122	3	79	5.6	142
SM-ML250	Max Lifter 250	14.3	6.4	7.4	189	3	79	5.6	142
SM-ML500	Max Lifter 500	33	15	9.8	249	4.2	106	7.4	189
SM-ML1000	Max Lifter 1000	71.6	32.5	13.4	342	5.25	133	8.6	219
SM-ML2000	Max Lifter 2000	167.5	76	18	457	6.5	166	11.5	293

Other sizes and applications available on special order.





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MAXLIFT 09/2019

TRACK CUTTING MACHINE FROM STEELMAX®

TORCH RUNNER TRACK CUTTING MACHINE

DIGITAL CONTROL PRODUCES ACCURATE HIGH-QUALITY CUTS AND BEVELS

The **Steelmax**^{*} **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





The tools of innovation.

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

TORCH RUNNER FROM STEELMAX®



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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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.

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





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

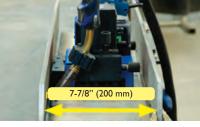


Easily weld from end to end



Vertical speed 0-43 in/min (0—110 cm/min)





Welding in narrow spaces



Welding in narrow spaces



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Torch placement

on either side

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:





5.2 Ah Battery

SM-WC-LR-BAT

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



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



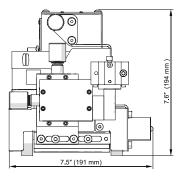
Battery charger SM-LDW-000006 (230 V, 50/60 Hz) SM-WC-LR-CHARGER (115 V, 50/60 Hz)

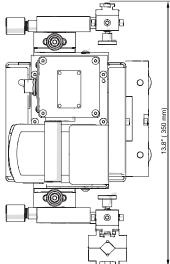


Power supply SM-ZSL-0526-20-00-00-0



Power cord 10 ft (3 m) SM-PWD-0466-18-00-00-0 (230 V) SM-PWD-0466-16-00-00-0 (115 V)







Easily place torch on either side of carriage



- Eco Runner Welding Carriage
- Torch holder
- Battery
- 4 mm hex wrench
- 3 mm hex wrench
- Operator's Manual

877-833-5629

Battery Charger Sold Separately





CE

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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



with a line power adapter). The **Li'l Runner** family of carriages offer a broad range of capabilities in one of the smallest fillet welders on the market today.



Standard kit includes:

- Li'l Runner drive unit (SM-WC-LR)
- Power cord
- Arc control cable
- · Guide arm assembly with brass roller wheels

Also available in high-speed and dual-power battery-operated models.



Li'l Runner with flex rail for tank fabrication.



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Li'I RUNNER FROM STEELMAX®

FEATURES

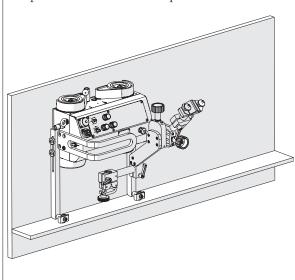
- · Compact, lightweight design with durable cast aluminum housing
- Positive magnetic traction permits out of position use
- Magnetic adhesion on/off lever permits easy set up and adjustment on work piece
- · Maintenance-free, 4-wheel planetary gear drive system
- Digital LED display for setting travel 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

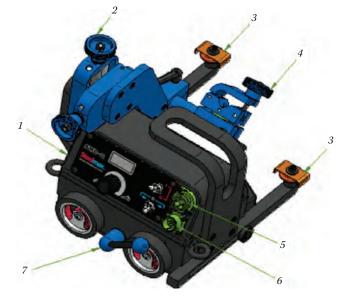
- Increased arc time no starts and stops
- · Reduce wasted filler metal eliminate over welding
- Consistent heat input reduces distortion
- Precise travel speed and torch angle reduces weld defects and costly rework
- Improves work environment reduces fatigue and repetitive stress removes operator from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







The Li'l Runner is able to run on a vertical piece of steel.



- 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

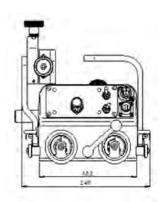
PORTABLE WELDING CARRIAGE

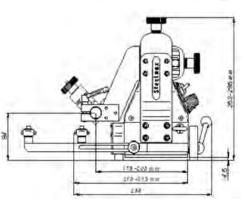


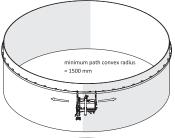
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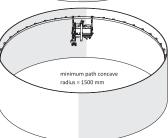
Li'I RUNNER FROM STEELMAX®

Li'l Runner Technical Specifications				
Part Number		SM-WC-LR (Li'l Runner) SM-WC-LR-HS (High-Speed) SM-WC-LR-DP (Dual-Power)		
Power su	oply	Dual Voltage 120 or 230V		
Welding p	oosition	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 r	nethod	2 guide rollers		
Pulling po	wer	22 lbs (10 kg) Vertical 33 lbs (15 kg) Horizontal		
Cross slid	e Up-Down	I.4″ (35 mm)		
adjustmen	^{t:} Left-Right	I.4″ (35 mm)		
Guide rol	er 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)		
Dimensio (L x W x		9.6 x 10 x 9.5″ (240 x 258 x 253 mm)		
Weight		17.5 lbs (8 kg)		









Li'l Runner DP Standard kit includes:

- Drive unit (SM-WC-LR-DP) Dual-power, battery-operated Li'l Runner
- 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**^{*} **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.



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

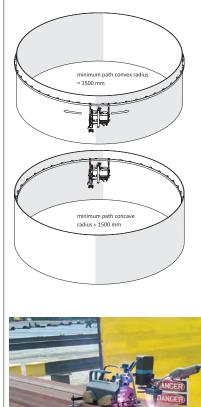


The tools of innovation.

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:

1. Oscillator

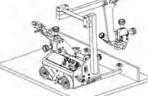
Oscillator Technical Specifications				
Oscillation type	Pendulum			
Amplitude R-150 mm	0.08-1.2" (2-30 mm)			
Frequency	12-115 cycles/min			
Dwells	0-3 s.			
Weight	5.5 lbs (2.5 kg)			
Product Code	SM-WC-AR-OSC			

2. Dual Torch Mount

enables mounting of second torch for dual-sided fillet welding

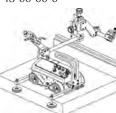
Product Code: SM-PDT-0466-40-00-00-0





3. Torch Extension Arm enables extended reach for torch placement Product Code: SM-PRD-0466-43-00-00-0





4. Edge Following Guide Arms enables guiding off an outside edge Product Code: SM-PRW-0476-21-00-00-1



5. Adjustable Guide Arms enables guiding on lap joints and templates Product Code: SM-PRW-0476-22-00-00-1



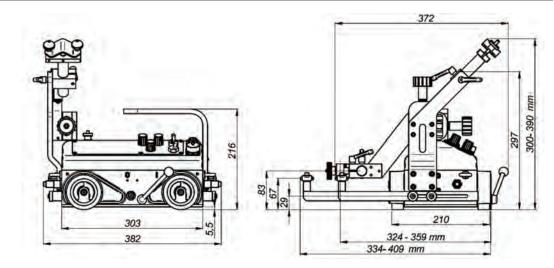
6. Flexible Guide Rail 72" Long for LR and AR Product Code: SM-PRW-0466-50-01-01-0 ELEPTER



Product Code: SM-PRW-0476-55-00-00-1

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)			
		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	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 knob	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

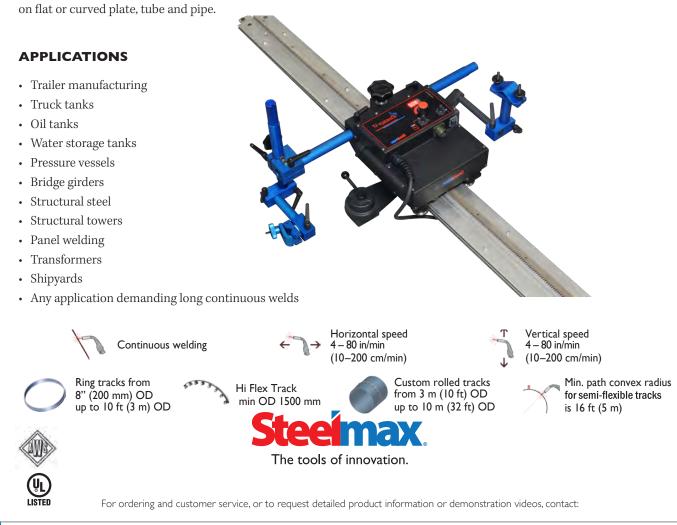
The **Rail Runner LT** is an economical system for a wide range of welding and cutting applications

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).

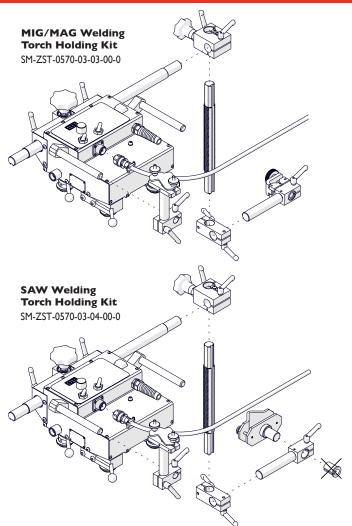
An optional vacuum system allows the rails to attach to non-ferrous surfaces such as stainless steel and aluminum.

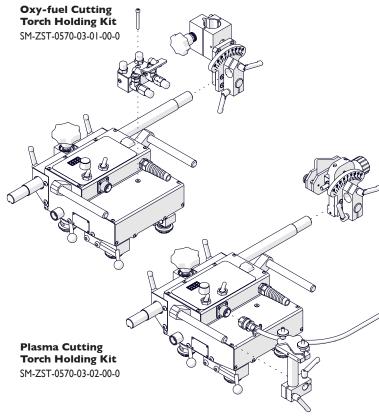


RAIL RUNNER LT

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







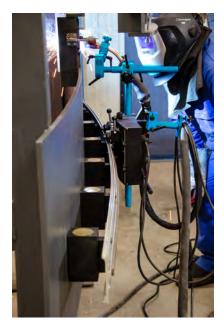


DIGITALLY CONTROLLED TRACTOR FROM STEELMAX®

Rail Runner LT Technical Specifications		
Voltage		II5 - 230V 50 - 60 Hz
Power		66 Watts
Deil Orginge fan Deursd	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)
iube & ripe	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 Vertical Pulling Force Horizontal Speed Range Vertical Speed Range Weight Part Number		67.5 Lbs
		45 Lbs
		4 - 80 in/min (10 - 200 mm/min)
		4 - 80 in/min (10 - 200 mm/min)
		22 Lbs (10 Kg)
		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









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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**^{*} **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®

Rail Runner Technical Specifications

Part Number		SM-WC-RR (with oscillation) SM-WC-RR-WO (without oscillation)
Power Supply	– Dual Voltage	II5-230 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 track	k way curvature radius	l6 ft (5 m)
Torch diamete	r	5/8" – 1" (16 - 25 mm)
Minimum weld	ing material thickness	3/16" (5 mm)
Pulling	Horizontal work	77 lbs (350N)
Force	Vertical work	33 lbs (150N)
Torch adjustm	ent range	I-3/8" up-down, left-right (35 mm)
Horizontal spe	ed	0 – 47-3/8"/min (0 - 120 cm/min)
Vertical speed		0 – 43-5/16"/min (0–110 cm/min)
Oscillation typ	e	linear
Oscillator arm	stroke	0 – 4" (0 - 100 mm)
Oscillation wid	lth	0 – 1.9" (0 - 50 mm)
Oscillation spe	ed	0 – 59"/min (0 - 1500 mm/min)
Oscillation dw	ells	0–5 s
Weight		44 lbs (20 kg)





Suitable for work in both horizontal and vertical positions

User-friendly control panel

The included equipment consists of:

- Welding carriage
- Metal box
- Torch holder
- Cable holder
- Power cord
- Arc ignition cable of 6.5 m (21 ft)
- 3 mm hex wrench
- 4 mm hex wrench
- Operator's Manual

Additional accessories:

- SM-PRW-0482-15-02-00-0 Track segment of 6.5 ft (2 m)
- SM-ZSP-0475-56-00-00-0 Magnetic base unit
- SM-DYS-0482-15-01-01-0
 Mounting Bracket for Magnet





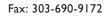


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MODULAR TRACK WELDING CARRIAGE FROM STEELMAX®

RAIL RUNNER II

MODULAR WELDING/CUTTING CARRIAGE WITH INTEGRATED SEAM TRACKING

The **Steelmax**^{*} **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
- ${\scriptstyle \bullet}$ 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 Hz
Power		120 W
	Horizontal	PA (flat), PB (horizontal vertical), PC (horizontal)
Welding positions	Vertical	PF (vertical up), PG (vertical down)
Minimum track curvatur	e radius	5 m (16 ft)
Torch type		MIG/MAG
Torch diameter		16-22 mm (0.63-0.87"); up to 35mm (1.38") option
Minimum workpiece this	ckness	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/min)
Oscillation delay at cent	er and on ends	0–5 s
Maximum oscillator pull	ing force	100 N
Weight		10 kg (22 lbs)



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· Rack and pinion drive with integrated limit switches • Improved weld performance

· Integrated linear oscillator

FEATURES AND BENEFITS:

• Quick clamping torch holder mechanism:

· Compact, lightweight design

multifunction LED display

• Simple, precise torch adjustment

- Constant travel speed maintains consistent heat input, minimizes distortion and eliminates over welding

· Simple, ergonomic remote control pendant with magnetic base and

· 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

- Standard for torch diameters of 16-22 mm (0.63 - 0.87") - Optional for larger torch diameters up to 35 mm (1.38")

- 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

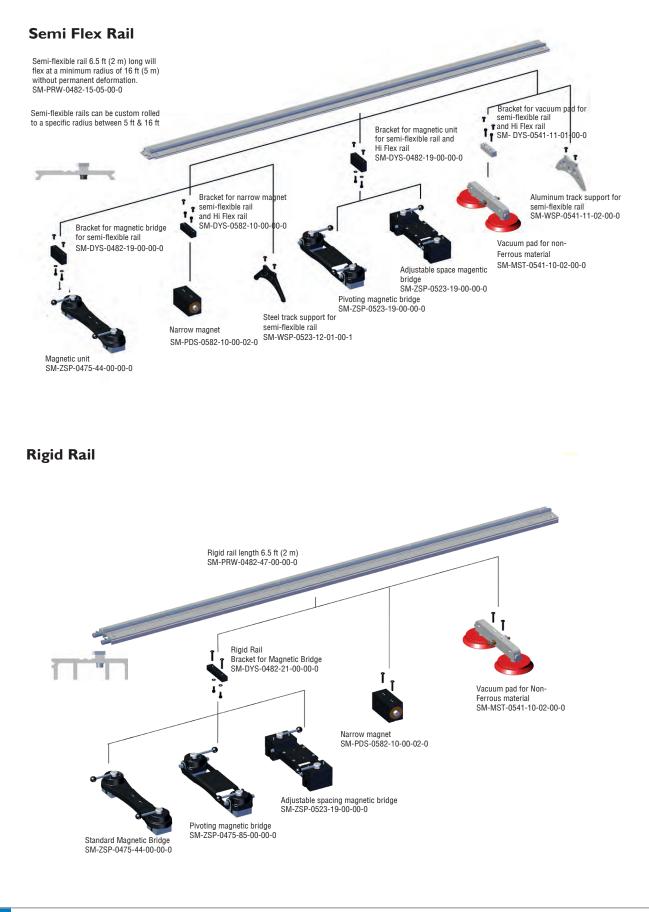
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RAIL OPTIONS FOR RAIL RUNNER FAMILY OF CARRIAGES



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

- **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.

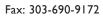








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WELDING OSCILLATOR & MINI-MANIPULATOR

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

1		
	Torch holder diameter	5/8–7/8" (16–22 mm)
	Arm horizontal stroke	22" (560 mm)
	Arm vertical stroke	25" (640 mm)
	Weight	33 lbs. (15.3 kg)
	Part Number	SM-STJ-0629-24-00-00-0



Mini-Manipulator with Oscillator





Mini-Manipulator as positioner

CNC CUTTING FROM STEELMAX®

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 1/2' cutting width, with either 6 1/2' or 9 1/2' cutting length
- Fully licensed copy of FASTCAM software included with each machine
- Dual voltage 115V or 220V



CNC CUTTING FROM STEELMAX®

TECHNICAL SPECIFICATIONS	
Effective Cutting Width	4.5 Ft. (1370 mm)
Effective Cutting Length	6.5 Ft., 9.5 Ft. (1980 mm, 2895 mm)
Rapid Speed	120 IPM (3050 mm/min)
Cutting Speed Range	2 - 120 IPM (50 - 3050 mm/min)
Supply Voltage	I I 5 Volts (Standard) / 220 Volts
PLASMA CUTTING	
Torch Holder	Standard I 3/8" (35 mm) Machine Barrel
Height Control	Through The Arc Height Control

Ohmic Crash Sensing Through The Nozzle

OXY - FUEL CUTTING	
Torch Holder	Standard I 3/8" (35 mm) Machine Barrel
Hose Sizes	Standard "B" Oxy-Fuel Fittings (9/16" - 18 UNF)



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

Standard Machine Package Includes:

CNC Control Unit

Collison Detection

- 4 1/2' x 6 1/2' or 4 1/2' x 9 1/2' 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









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

877-833-5629

sales@Steelmax.com

Fax: 303-690-9172

All information is subject to change without notice.

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Notes:	
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15335 E. Fremont Drive, Centennial, CO 80112 121 Southpointe Drive, Bridgeville, PA 15017

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

> > STEELMAX.COM

Please contact us for your custom tool needs.

