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.



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

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2020 Catalog Version I

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PORTABLE DRILLING MACHINE FROM STEELMAX®

D1 PORTABLE MAGNETIC DRILL ULTRA COMPACT DRILL COMBINES PORTABILITY AND PERFORMANCE

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

The **D1** is equipped with an electromagnetic Energy Saving Base (ESB) which uses only 50% of the power when the motor is not under load, dramatically increasing the operating life of the electromagnet, and a Magnetic Field Shape Control (MFSC) system which provides maximum holding power on thin material. Safe Magnet^{¬¬} 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







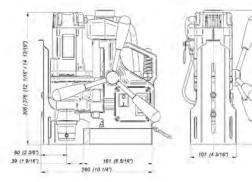


Standard shipping set:

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



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







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SEMI-AUTOMATIC DRILLING MACHINE FROM STEELMAX®

D1 AUTO

ADVANCED SEMI-AUTOMATIC DRILLING MACHINE

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

FEATURES:

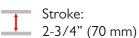
- 1-3/8" (36 mm) diameter x 2" (51 mm) depth of cut
- Compact, rigid design that weighs just 30 lbs. (13.5 kg)
- Optimal combination of spindle speed and torque produces industry leading cycle times with TCT and HSS cutters
- Safe magnet control systems for excellent performance and operator safety
-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

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

Max Hole Size:



Depth of cut: 2" (51 mm)



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



EXCELLENT PERFORMANCE & PRODUCTIVITY

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

SAFETY

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

USER-FRIENDLY

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





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



Standard shipping set:

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





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LOW PROFILE MAG DRILL FROM STEELMAX[®]

D1 Low Profile

LOW PROFILE ELECTRIC DRILL FOR RESTRICTED SPACE

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

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

FEATURES

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

STANDARD SET INCLUDES:

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





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

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

8



Depth of cut:

up to 1-3/16"

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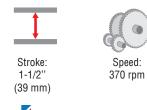
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CE





The DI Low Profile fits in the tightest spots







Motor Power: 920 W



Weight: 21 lbs (9.5 kg)

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

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





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



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

Easily work out of position



Lifting handle for easy transportation



Handy plastic case





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D1 MAG DRILLS FOR SPECIAL APPLICATIONS



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

D1-PM Permanent Mag

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



D1-TS for Thin Steel

or not work at all.

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

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D1-SM Swivel Magnet



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



PORTABLE DRILLING MACHINE FROM STEELMAX®

D1 PRO PORTABLE MAGNETIC DRILL

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

Steemax

The tools of innovation.

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

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

FEATURES

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





8" (16 mm)



Ø I-9/16"

Standard shipping set:

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

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

*Items necessary for use with twist drill bits.



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

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



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PORTABLE DRILLING MACHINE FROM STEELMAX®

D-250-x PORTABLE MAGNETIC DRILLING MACHINE

ANNULAR CUTTER DRILLING MACHINE

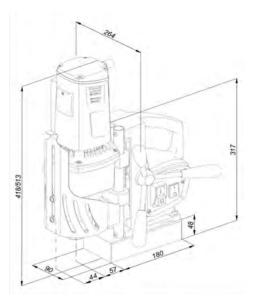
The D-250-X magnetic drill has a powerful 1600w motor which enables a cutting capacity up to 2-3/8" and a depth of cut up to 3'. Newly designed motor housing and magnet make this large capacity drill lighter then other competitive drills in the market. The maintenance free guide rail system helps reduce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

Optimized drilling speeds for both HSS and TCT annular cutters.

FEATURES

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

Dimensions





Standard shipping set:

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

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



15335 E. Freemont Drive, Centennial, CO 80112 For ordering and customer service, or to request detailed product information or demonstration videos, contact:

877-833-5629

D250X 03/2020

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DRILLING & TAPPING MACHINE FROM STEELMAX®

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

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

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

Intelligent speed control system maintains constant motor speed regardless of changing

loads.

Innovative 360-degree LED indicator facilitates

FEATURES

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





The tools of innovation.





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

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Standard shipping set:

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

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

lbs 5 oz (26.1 kg)

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

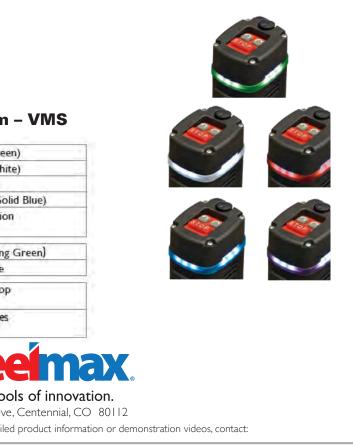
360-degree Visual Monitoring System – VMS

| | Ready To Operate (Solid Green) |
|---------------|--|
| 5 (| Normal Operation (Solid White) |
| Drill | Motor Overheat (Solid Red) |
| Operational | Emergency Stop/Overload (Solid Blue) |
| Status | Emergency Stop/Low Adhesion (Solid Violet) |
| (i) Safety | Inadequate Adhesion (Flashing Green) |
| A Information | Near Overload (Flashing Blue |
| Diagnostics | Emergency Stop/ Voltage Drop (Red Flashes to Blue) |
| | Emergency Stop/ Worn Brushes (Red changes to Green) |
| | Steel |
| | The tools of i 15335 E. Freemont Drive, Center |
| For ordering | and customer service, or to request detailed produc |

D200XT 03/2020

877-833-5629

| D 200-XT | Technical Specifications |
|--|---|
| Motor Speeds (under load) | 160-250 rpm (gear1) 390-580 rpm (gear 2) |
| Power | 1600 W |
| Weight | 37 lbs (17 kg) |
| Max Hole Size-Annular Cutter | 2" (50mm) |
| Max Drilling Capacity | 7/ 8" (23 mm) |
| Max Depth of Cut | 3" (75 mm) |
| Max Tap Size | M20 (3/ 4") |
| Stroke | 7-1/2" (190 mm) |
| Voltage | 115 V, 50-60Hz 230V, 50-60 Hz |
| Magnetic clamping force (surface with thickness of 25 mm and roughness Ra=1.25 | 2474 ft lbs (11000 N) |
| Magnet Base Dimensions | 3-9/ 16" x 7" x 1-7/ 8" 90 mm x 180 mm x 48 mm |
| Min. Workplace Thickness | 5/ 16" (8 mm) |
| Spindle | MT2 |
| Tool Holder | 3/ 4" (19 mm) Weldon |
| Part Number 115V, 50-60 Hz | SM-D-200-XT |
| Part Number 230V, 50-60 Hz | SM-D-200-XT-230 |



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DRILLING & TAPPING MACHINE FROM STEELMAX®

D-300-XT TAPPING & DRILLING MACHINE

VARIABLE SPEED MAGNETIC DRILLING MACHINE

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

FEATURES

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



Intuitive control panel at top of the drill







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

Standard shipping set:

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

D200XT 03/2020

- Locking connector
- (only in 115 V version)

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

360-degree Visual Monitoring System – VMS

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

877-833-5629

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





ion.

80112 formation or demonstration videos, contact:

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TAPPING & DRILLING MACHINE FROM STEELMAX[®]

D-400-XT INDUSTRIAL TAPPING & DRILLING MACHINE

Multi-Purpose HEAVY DUTY MAGNETIC DRILLING MACHINE

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

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

FEATURES

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







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

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

360-degree Visual Monitoring System – VMS



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



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Standard shipping set:

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

• Integrated coolant system

• Protective spring for cooling

• Set of tools with wedge

Instruction manual

• 6 mm hex wrench

• 2.5 mm hex wrench • 8 mm combination wrench

Locking connector

(only in 115 V version)

Drilling Capacity up to 4" (100 mm)

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

• 5 mm hex wrench with a

 Magnetic drilling machine Metal shipping box

• Handle (3 pcs)

• MT3 drift

Safety strap

hose • MT2 drift

handle

Tool can

Screw tapping







Fax: 303-690-9172 sales@Steelmax.com

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DRILLING & TAPPING MACHINE FROM STEELMAX®

D-500-XT HEAVY DUTY TAPPING & DRILLING MACHINE

POWERFUL HEAVY DUTY MAGENTIC DRILLING MACHINE

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

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

FEATURES

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

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



Intuitive control panel at top of the drill





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

e tools of innovation

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

360-degree Visual Monitoring System – VMS



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



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Standard shipping set:

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

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







Screw Tapping



PNEUMATIC DRILLING MACHINE FROM STEELMAX®

D1AIR ATEX CERTIFIED PNEUMATIC DRILL

VERY LOW PROFILE DRILL FOR RESTRICTED SPACE

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

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

FEATURES

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

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



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PNEUMATIC DRILLING MACHINE FROM STEELMAX®

D175 ATEX CERTIFIED PNEUMATIC DRILL

HEAVY-DUTY DRILL FOR HAZARDOUS ENVIRONMENTS

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

FEATURES:

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

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



Annular Cutters up to 1.75" (45 mm)

Depth of cut



877-833-5629

8 Twist drill 0.75" (20 mm)

2" (51 mm)



All information is subject to change without notice

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877-833-5629 DIAIR 09/2019



Stroke 6" (150 mm)

Speed 190 rpm, 290 rpm





PNEUMATIC DRILLING MACHINE FROM STEELMAX®

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

Standard package includes:

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

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









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MAGN

DRILL ATTACHMENTS FROM STEELMAX®

MAGNETIC DRILL PIPE ATTACHMENTS MOUNT DRILLS TO PIPES FOR SAFE OPERATION

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

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



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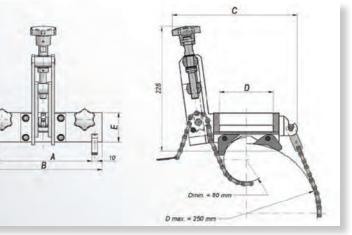
| PIPE Attachme | nt A | В | С | D | Е | Suitable for: |
|---|---|---------------------|-----------------------|--------------------|----------------------|--|
| DMP 0250 | 6" (152 mm) | 7-3/8" (188 mm) | 8-5/16" (211 mm) | 3-5/16" (85 mm) | 2-1/16" (52.5 mm) | D1, D1 Pro 3" to 9.5" pipe |
| DMP 0251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

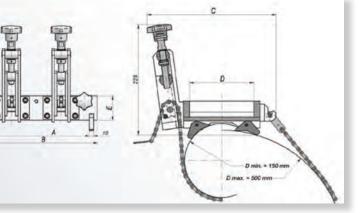


877-833-5629

PIPEATTACH 08/2020

D175ATEX 09/2019





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STEELMAX[®] DRILL FEATURES & SPECIFICATIONS









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

STEELMAX[®] DRILL FEATURES & SPECIFICATIONS





| D1 Pro | | D1-TS | D1-TS D1-SM | | | D1-PM | | |
|------------------------------------|--|----------------------------------|------------------------------------|---|--|--|---|--|
| Manual | | Manual | Manual | | | Manual | | |
| _ | | - | - | | - | | - | |
| 3/4" (19 mm) V | Veldon | 3/4" (19 mm) \ | 3/4" (19 mm) Weldon | | Veldon | 3/4" (19 mm) | Weldon | |
| max 1-9/16" (4 max 7/8" (23 m | | max I-3/8" (36 - | ómm) | max I-3/8" (36 - | mm) | max 1-3/8"m - | ax (36 mm) | |
| max I-9/16 " (4 | 0 mm) | max 1-9/16" (4 | 10 mm) | max 1-9/16" (4 | 0 mm) | max 1-9/16" | (40 mm) | |
| _ | | _ | | - | | - | | |
| 4-7/8" (124 n | nm) | 2-3/4" (70 mm |) | 2-3/4" (70 mm) |) | 2-3/4" (70 m | m) | |
| 2" (51 mm) | | 2" (51 mm) | | 2" (51 mm) | | 2" (51 mm) | | |
| 115 V/60Hz | | 115V/60Hz | | 115V/60Hz | | 115V/60Hz | | |
| 230 V/50Hz | | 230V/50Hz | | 230V/50Hz | | 230V/50Hz | | |
| 1020 W 1.4 H | ΗP | 920 W I.2 H | ΗP | 920 W I.2 H | IP | 920 W I.2 | HP | |
| 440 RPM | | 350 RPM | | 350 RPM | | 350 RPM | | |
| _ | | yes | | yes | | yes | | |
| no | | no | | no | | no | | |
| - | | - | - | | - | | - | |
| yes | | yes | yes | | yes | | yes | |
| _ | | _ | | yes | | - | | |
| yes | | yes | | yes | | yes | | |
| 2200 lbs (998 | kG) | 2019 lbs (918 | kG) | 1346 lbs (612 kG) | | 1346 lbs (612 kG) | | |
| yes | | yes | | yes | | yes | | |
| Dead lift | Drill point breakaway | Dead lift | Drill point breakaway | Dead lift | Drill point breakaway | Dead lift | Drill point breakaway | |
| 2203 lbs (1000 kg) | 880 lbs (400 kg) | 2135 lbs (968 kg) | 859 lbs (389 kg) | 2135 lbs (968 kg) | 859 lbs (389 kg) | 2135 lbs (968 kg) | 859 lbs (389 kg) | |
| 3-5/16" x 6-5/8 (84 x 168 x 41. | | 3.94" x 7.87" x (100 mm x 200 | | 9.57" x 8.58" x 3.78 " (243 mm x 218 mm x 96 mm) | | 3.86" x 9.33" x 3.87" (98 mm x 237 mm x 100 mm) | | |
| I/4" (6 mm) | | I/8" (3 mm) | | I/4" (5 mm) | | I/4" (5 mm) | | |
| no | | no | | no | | no | | |
| 28 lbs (12.7 kg) | | 24 lbs (11 kg) |) | 31 lbs oz (14 k | 31 lbs oz (14 kg) | | g) | |
| SM-D1PRO (SM-D1PRO-2 | l I 5V/60Hz) 3 0 (230V/50Hz) | SM-D1-TS (SM-D1-TS-2 | 15V/60Hz) 30 (230V/50Hz) | SM-D1-SM(SM-D1-SM-2 | l I 5 V/60Hz) 3 0 (230 V/50Hz) | | (115V/60Hz) - 230 (230V/50Hz) | |
| 877-833 | -5629 | | | | | | .steelmax.com | |

DCAP 05/2018





STEELMAX[®] DRILL FEATURES & SPECIFICATIONS









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

STEELMAX[®] DRILL FEATURES & SPECIFICATIONS





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

DCAP 05/2018





DRILL ACCESSORIES FROM STEELMAX®

Industrial Arbors & Drill Chucks

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

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

Automatic Self-Reversing Tapping Heads

PRODUCE GAGE PERFECT THREADS OUICKLY AND EFFICIENTLY

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

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

SM-HR2 SM-HR3



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

Magnetic Pick-Up Tool

This handy magnetic tool helps you put safety first.

from machinery and work areas using the

Never pick up metal chips or shavings again.

• Safely remove metal chips and debris

demagnetizes the tool which releases

SIZE

10" tool

15" too

Steelmax magnetic pick-up tool.

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

• The slide action lever instantly

HIGH PERFORMANCE, **BIODEGRADABLE**

Cutting Fluid

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

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

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

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Made in USA.
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877-833-5629

STEELMAX.COM

sales@Steelmax.com

PART NUMBERS

SM-MPI0

SM-MP15

All information is subject to change without notice

SAFETY FIRST!

Fax: 303-690-9172

STEELMAX TAPPING COLLETS AND CHUCKS

QUICK CHANGE TAPPING SYSTEM

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







DRILL ACCESS 08/2020

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

All information is subject to change without notice

STEELMAX TAPPING COLLETS AND CHUCKS

QUICK CHANGE TAPPING SYSTEM

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

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

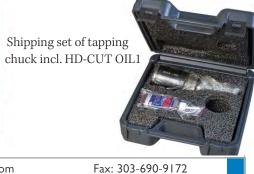
RA – Reduction Adapters

feat. securing nut

Tapping chuck

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

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



877-833-5629

STEELMAX.COM

sales@Steelmax.com

DRILL ACCESS 08/2014

All information is subject to change without notice

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VACUUM PAD FOR MAG DRILLS FROM STEELMAX®

VACUUM PAD FOR DRILLING On Non-Ferrous Materials

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

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

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

FEATURES

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

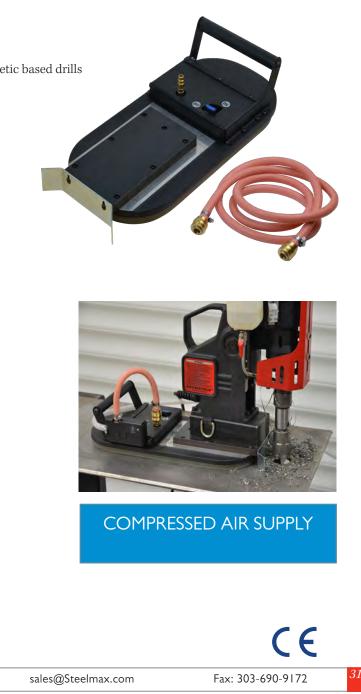
a compressed air supply (optional)

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



VACUUM SUPPLY

877-833-5629



VACUUM PAD FOR MAG DRILLS

VACUUM SUPPLY

Portable vacuum pump with safety reservoir -

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

Compressed Air Supply

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



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

Additional Required Equipment

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



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

• Requires longer pilot pin (depending on cutter used)

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

STEELMAX[®] ANNULAR CUTTERS

HSS & TCT ANNULAR CUTTERS

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

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

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

Annular cutters have many advantages over traditional twist drills:

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

HSS Cutters

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

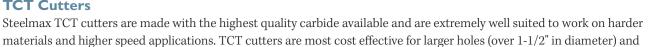
TCT Cutters

in thicker materials (2" and over).

Cutting Fluid

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









STEELMAX[®] HSS ANNULAR CUTTERS

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

M2AL HSS Annular Cutters

STEELMAX[®] TCT ANNULAR CUTTERS

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

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

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

purchased separately

2.1250

2.1875

2.2500

2.3125

2,3750



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

SM-AC-21250-2

SM-AC-21875-2

SM-AC-22500-2

SM-AC-23125-2

SM-AC-23750-2

2-1/8"

2-3/16"

2-1/4"

2-5/16"

2-3/8"

SM-AC-21250-1

SM-AC-21875-1

SM-AC-22500-1

SM-AC-23125-1

SM-AC-23750-1



TCT Annular Cutters





STEELMAX[®] METRIC HSS ANNULAR CUTTERS

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



STEELMAX LARGE DIAMETER T

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

Pilot Pens included with metric HSS cutter purchases



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

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

included with eter Annular Cutter purchases



STEELMAX[®] ANNULAR CUTTER SETS

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

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

Coutersinks For Magnetic Drills 3/4" Weldon Shank

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

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

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

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

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



877-833-5629

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

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

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

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

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





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

STEELMAX.COM sales@Steelmax.com

Fax: 303-690-9172

HP60 & HP110

FULLY PORTABLE PUNCHES PRODUCE SMOOTH PRECISE HOLES IN SECONDS

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

Primary features and benefits:

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



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

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

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



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ANNCUT 09/2019

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PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

SM-HP700 Hydraulic Punch Power Pack

HP60/HP110 Round Hole Capacities

(60,000 PSI Shear Strength Material)

PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

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

*See round hole capacity chart on previous page.





Ready to work in both vertical and horizontal positions

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

*Contact Steelmax for other voltage options

877-833-5629



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



for both machines SM-BLN-000005



Ergonomic location of "quick-connect"

ports at the rear of unit





The tools of innovation. CE

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

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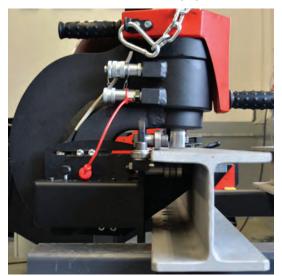
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PORTABLE HYDRAULIC PUNCHES FROM STEELMAX®

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.

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



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Spring balancers available

135 mit

Util

SM-HP-60

SM-HP-110





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

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

METAL CUTTING SAW FROM STEELMAX®

S7 XP METAL CUTTING SAW

7" OR 7-1/4" BLADE DIAMETER

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

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

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

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

FEATURES

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

Steelmax S7 XP Technical Specifications

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



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





S7XP 04/2019

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877-833-5629

METAL CUTTING SAW FROM STEELMAX[®]

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

877-833-5629

S9XP 05/2019

Steelmax S9XP Technical Specifications

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



STEELMAX.COM

METAL CUTTING SAW FROM STEELMAX®

S14 METAL CUTTING SAW

14" BLADE DIAMETER WITH STABLE CAST IRON BASE

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

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

FEATURES

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

Steelmax SI4 Technical Specifications

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



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

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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

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

FEATURES



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Cermet Tipped Blades

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





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

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

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

ALL 14" Saw blades:

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

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

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



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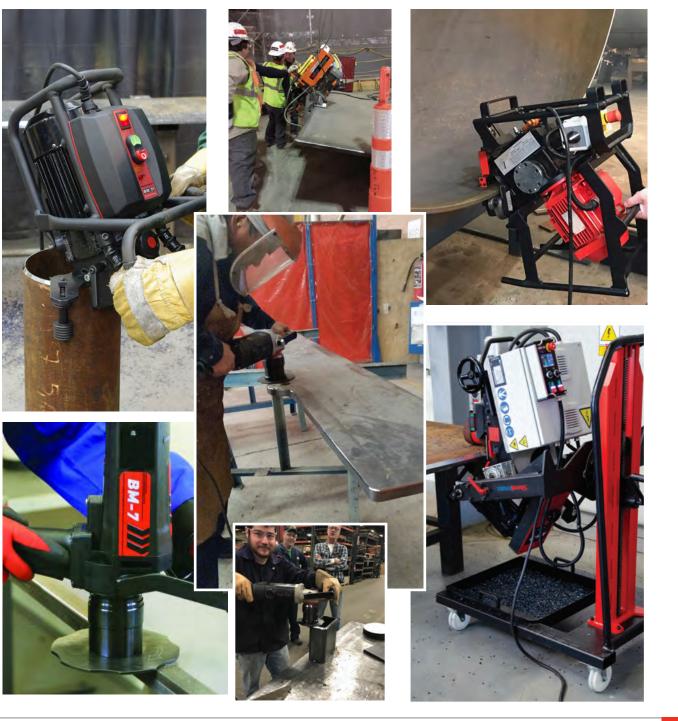
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PLATE & PIPE BEVELING SOLUTIONS



877-833-5629

BEVINTRO 09/2019

www.steelmax.com

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COMPACT PORTABLE BEVELING MACHINE FROM STEELMAX®

BM7 MULTIPURPOSE BEVELING TOOL

BEVEL, DEBURR, CHAMFER & RADIUS EDGES

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

BENEFITS

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

FEATURES

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

ONE Universal Milling Head

Bevel width up to 7 mm







| | - |
|---------------------------------------|---|
| adius edge milling 2, R3, R4 or R5 | |
| | |

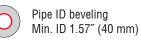
Contour edge beveling & radius milling

Min plate thickness

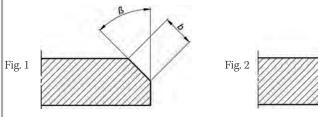
1.5 mm

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

Countersinking



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



Standard set includes:

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



Accessories:

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

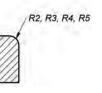
| Spare and Wearing Par | ·ts: |
|------------------------|------------------------------|
| SM-SRB-000289 | Insert Screw |
| SM-RLK-0540-08-02-00-0 | Guiding roller |
| SM-SMR-000005 | Screw grease (5 g) |
| SM-SCZ-000009 | Carbon brush for 115V / 230V |



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

877-833-5629

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







Radius edge milling



Contour edge beveling and radius milling



Plate beveling



Pipe beveling



Countersinking





E

PORTABLE BEVELING MACHINE FROM STEELMAX®

BM16 PORTABLE BEVELER

BEVEL OR RADIUS FLAT, CURVED OR ROLLED PLATE

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

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

FEATURES

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





| 877-833-5629 | |
|--------------|--|
|--------------|--|

sales@Steelmax.com

Fax: 303-690-9172

BM16 Technical Specifications

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

Accessories to be chosen by customer

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

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

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

Spare and wearing parts:

877-833-5629

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



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PORTABLE BEVELING MACHINE FROM STEELMAX®

BM20 Plus PORTABLE BEVELER

HEAVY-DUTY TOOL PRODUCES HIGH-QUALITY MACHINED BEVELS

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

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

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

FEATURES

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

APPLICATIONS





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

Top beveling



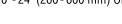
| Dptional accessory required) | |
|---------------------------------|--|
| | |

Plate Facing

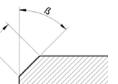
(Optional accessory required)



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



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



Part Number

ß 15° 30° 20.5 mm Ь 21 mm

BM20+-230 (230V/ 50Hz)

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





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

Part No. SM-PLY-000282 10 inserts required

Optional Accessories:



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

Plate beveling



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Bevel angles

15°-60°

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BM20+09/2019

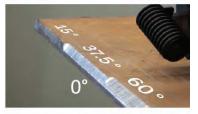
| tions | 10 | | | |
|-------|----|----|---|---|
| | 11 | 0 | n | C |
| | - | 10 | | 9 |

uare cutting inserts

Facing Attachment)

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





| 45° | 60° |
|-------|---------|
| 21 mm | 20.5 mm |







Plate facing (option)



Pipe beveling (option)



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



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

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PORTABLE BEVELING MACHINE FROM STEELMAX®

BM21 PORTABLE BEVELING MACHINE

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

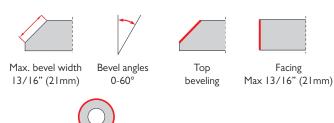
Reduce your costs and lay the foundation for high-quality welds with the Steelmax BM21. Inaccurate bevels and poor weld preparation are often the root cause of weld defects and excessive welding costs. This machine utilizes a high-speed rotary milling head with ten carbide inserts to produce precise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

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

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

FEATURES:

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





Vibration dampers oduce smooth operation





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

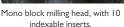




Plate facing

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







Enhanced Vibration Dampening

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

Continuous angle adjustment from 0 to 60 degrees.

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BM 21 09/2019



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PORTABLE BEVELING MACHINE FROM STEELMAX®

| ns | - |
|-------------------|---|
| | |
| _ | |
| | |
| e Carbide Inserts | ľ |
| t | |
| | 1 |
| | |
| | |

Plate beveling





The BM21 incorporates industry leading anti-

over comparable machines.



Pipe beveling

Optional equipment:

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



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







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STAINLESS STEEL PLATE & PIPE BEVELER FROM STEELMAX®

BM21SS

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

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

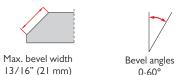
Unlike flame or plasma cut weld preparation, the BM21SS produces no heat affected zone or distortion of the work piece. This portable tool can be carried anywhere and eliminates time consuming and costly material handling associated with moving plates around the shop to stationary burning and milling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

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

on plate and pipe without any additional accessories.

FEATURES

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





Top beveling

Facing off



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



| $(\bigcirc$ |
|-------------|
| Ŭ |



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

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

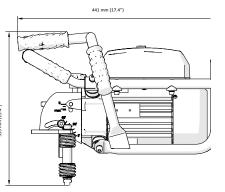




Plate facing

Plate beveling



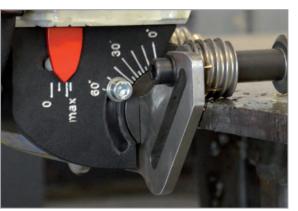
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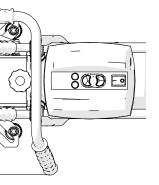
BM21SS 09/2019

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Continuous angle adjustment from 0 to 60 degrees





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





Pipe beveling



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ABM28 AUTO-FEED PLATE BEVELING MACHINE

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

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

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

FEATURES:

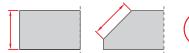
- Auto-feed beveler with overload protection produces consistent high-quality bevels with minimal operator fatigue
- Continuously adjustable bevel angle between +60 and -60 degrees enables beveling of both sides of the plate without turning the plate over - significantly enhancing safety and productivity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



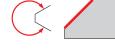




Beveling greater lengths of plate is accomplished with additional sections of guide tracks.



I-3/8" (35 mm)







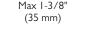
Top beveling

Facing Bottom beveling

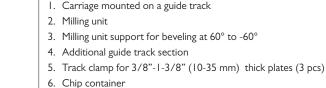
Cladding remova

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Milling head

SM-GLW-000013

Standard shipping set:

Voltage

Power

Bevel angle (b) Maximum bevel width (b)

Feed speed

Weight

Plate thickness

Spindle speed (no load)

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

ABM28 TECHNICAL SPECIFICATIONS

1600 W

2780 rpm

60 to -60°

I-3/8" (35 mm)

173 lbs. (70.5kg)

~220-240 V, 50-60 Hz

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

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

Replacement cutting inserts

- 7 required

SM-PLY-000282

- Wooden box
- Operator's Manual

Accessories and optional equipment:

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



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

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PLATE & PIPE BEVELER FROM STEELMAX[®]

ABM1218 FR Double-Sided Plate/Pipe Beveling Machine

THE MOST POWERFUL SELF-FEEDING BEVELING MACHINE IN ITS CLASS

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

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

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

FEATURES

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



Bevel width

up to 3/4"

(18 mm)







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

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

Тор bevelina

Bottom bevelina

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



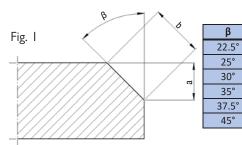






PLATE & PIPE BEVELER FROM STEELMAX®

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



Standard Set Includes:

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

Consumables and Angle Attachments

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



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



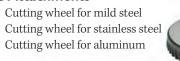
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| Max b | Max a |
|--------------|-----------------|
| 3/4" (18 mm) | 5/8" (16.6 mm) |
| 3/4" (18 mm) | 5/8" (16.3 mm) |
| 3/4" (18 mm) | 9/16" (15.6 mm) |
| 3/4" (18 mm) | 9/16" (14.7 mm) |
| 3/4" (18 mm) | 9/16" (14.3 mm) |
| 3/4" (18 mm) | 1/2"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







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

37.5° Bevel angle attachment 45° Bevel angle attachment









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PLATE BEVELING MACHINE FROM STEELMAX®

ABM50 AUTO-FEED DOUBLE-SIDED BEVELER

SELF-PROPELLED. INVERTIBLE BEVELING MACHINE REDUCES MATERIAL HANDLING

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

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

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

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

adjustment and floating compensation for uneven floors.

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

vel width

/8" (66 mm) / 15°

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

bottom 15° - 60°







Botton

beveling

Top beveling



Min plate thickness 5/16" (8 mm)

PLATE BEVELING MACHINE FROM STEELMAX[®]

FEATURES

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

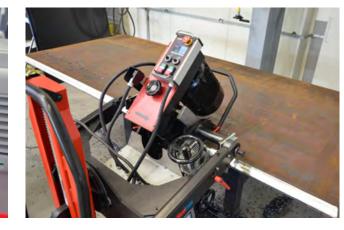


The ABM50 creates bevels with a maximum bevel width of 2" (50 mm) at 45 degrees.



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



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

PLATE BEVELING MACHINE FROM STEELMAX®

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

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

Accessories:

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

Milling head (8 cutting inserts required)

Product code: SM-GLW-000033

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

Standard kit includes:

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

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

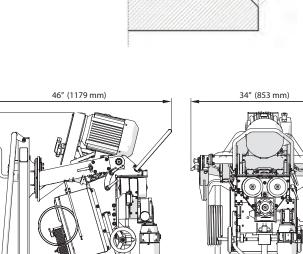


Fig. I





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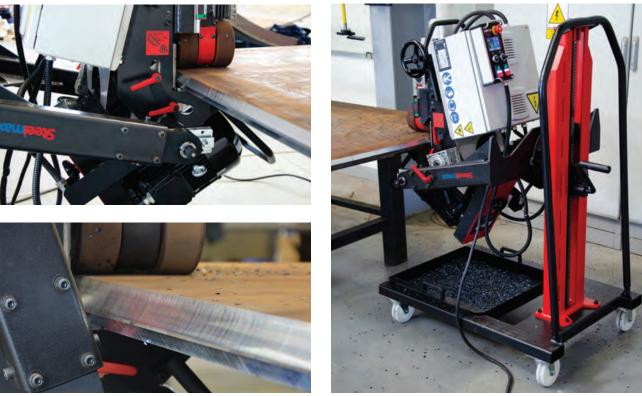
All information is subject to change without notice.

CE

Fax: 303-690-9172

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.





877-833-5629

ABM50 09/2019

PLATE BEVELING MACHINE FROM STEELMAX®

STATIONARY BEVELING MACHINE FROM STEELMAX®

SBM500 STATIONARY BEVELING MACHINE

MACHINE STRAIGHT EDGES OF DIFFERENT SIZE WORKPIECES

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

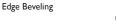
FEATURES

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







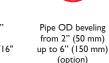


Bevel width up to 1-3/16" . (30 mm)

Bevel angles 15° - 60° continuous adjustment

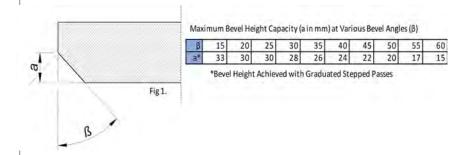
Workpiece height from 1/8" (3 mm) up to 4" (100 mm)

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



| \smile | |
|-------------|--|
| DD beveling | |

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



STANDARD SET INCLUDES:

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

ACCESSORIES:

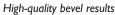
- SM-GLW-000030 Milling head
- SM-PLY-000396 Cutting insert for steel (10 pcs required)
- SM-PLY-000408 Cutting insert for aluminum (10 pcs required)
- SM-PLY-000397 Cutting insert for Stainless Steel (10 pcs required)

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

| | 877-833-5629 |
|--|--------------|
|--|--------------|

Fax: 303-690-9172

SBM500 05/2018





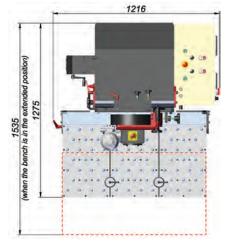
Easily machine various materials



Auxiliary tables to accommodate long workpieces



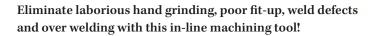
OD pipe beveling



PORTABLE BEVELING MACHINE FROM STEELMAX®

PB5 ID MOUNTED BEVELING MACHINE

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



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

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

Optional Accessories include:

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

FEATURES

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









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PB5 PIPE BEVELING MACHINE

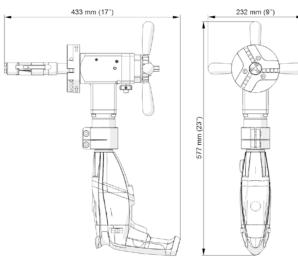
| | PB5-E / PB5-P Technical Specifications | | | |
|---|---|----------------|--|--|
| rbs-r rechnical specifications | | | | |
| | PB5-E | PB5-P | | |
| Motor Drive | Electric | Pneumatic | | |
| Motor Power | 1,100 Wats | 800 Wats | | |
| Speed Range | 0-300 RPM | 90 RPM | | |
| Power Supply Options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

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

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

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

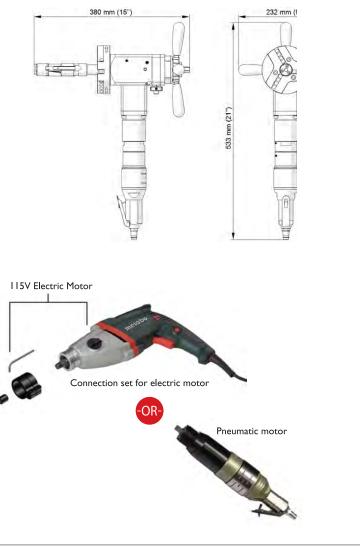
Dimensions





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PB5 PIPE BEVELING MACHINE FROM STEELMAX®

Optional Accessories

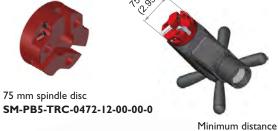
Boiler Repair Accessories – For work on water walls and restricted spaces.



75 mm spindle disc

Ratchet wrench

SM-PB5-KLC-000045



between tubes is 75mm (2.95")



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

Additional Equipment

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



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E

PORTABLE BEVELING MACHINE FROM STEELMAX®

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

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

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

conjunction with 0° facing tool bit



Fax: 303-690-9172

Part Number

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



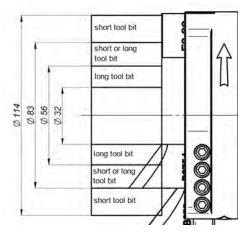






Wide range of tool bits for various applications.

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



PORTABLE BEVELING MACHINE FROM STEELMAX®

PBI0 PIPE BEVELING MACHINE

PNEUMATIC OR ELECTRIC TO MEET USERS SITE CONDITIONS

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

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

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

FEATURES

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

Pneumatic: SM-PBI0

The tools of innovation.



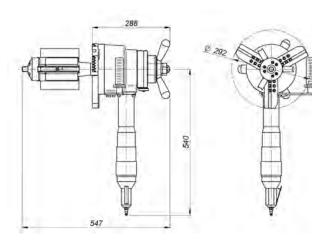
| PB10 Technical Specifications | | |
|-------------------------------|---|--|
| Pipe machining range | Min I.D. – 1.6" (40 mm) Max I.D. – 10-9/16" (269 m Wall thickness: up to .60" (Minimum Pipe Length: 7-1/2 | |
| Part number | SM-PBI0 | |
| Pneumatic motor | 1500W 2.0 HP | |
| Power requirements |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

14 to 32 rpm

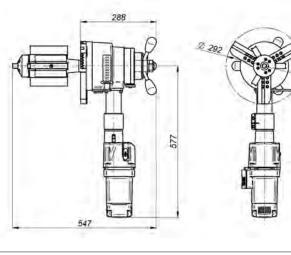
All information is subject to change without notice.

Headstock speed range

Pneumatic: SM-PB10



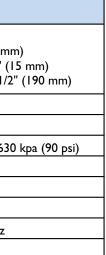
Electric: SM-PBE10



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PORTABLE BEVELING MACHINE FROM STEELMAX®

PART NUMBERS & TOOL BITS CODES

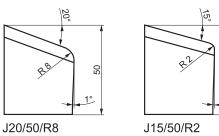
| SM-NOZ-000019 | 30° Beveling tool bit, height 1.5" (37 mm) | |
|---------------|--|--|
| SM-NOZ-000018 | 30° Beveling tool bit, height 1.7" (44 mm) | |
| SM-NOZ-000020 | 37.5° Beveling tool bit, height 1.7" (44 mm) | |
| SM-NOZ-000015 | 37.5° Beveling tool bit, height 2.1" (54 mm) | |
| SM-NOZ-000021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

Standard shipping set:

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

PORTABLE BEVELING MACHINE FROM STEELMAX®

J-Beveling Tool Bits



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





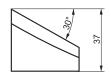




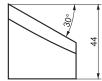


For ordering and customer service, or to request detailed product information or demonstration videos, contact:

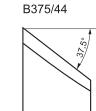
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B30/37



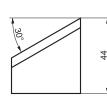
B30/44





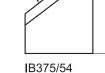


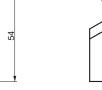
Internal Beveling Tool Bits



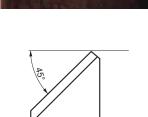


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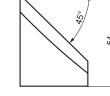
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IB45/54

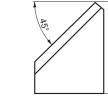
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B45/54

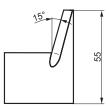




PB10 09/2019

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ID Chamfer Tool Bit



IC15/55

FacingTool Bit

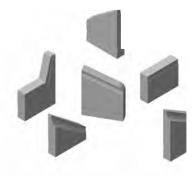
F0/30

Custom made versions of toolbits are available on request.



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

(355 mm) includes 3 ste ered in metal box













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PORTABLE PIPE BEVELING MACHINES FROM STEELMAX®

MPB26 Pro & APB32 Pro PIPE BEVELING SYSTEMS

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

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

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

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



MPB26 Pro Manual Pipe Beveling Machine



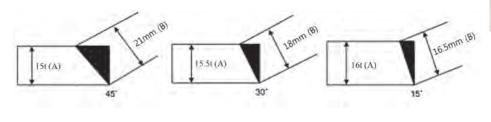
APB32 Pro Automatic Pipe Beveling Machine

FEATURES

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

PORTABLE PIPE BEVELING MACHINES FROM STEELMAX®

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



Accessories

SM-PB-AP1020-LD

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

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





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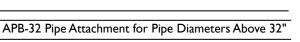
MP/AP 11/2017

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Easily set the bevel depth





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





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HIGH-SPEED PIPE BEVELING SYSTEM FROM STEELMAX®

PBM 1000 PIPE BEVELING MACHINE

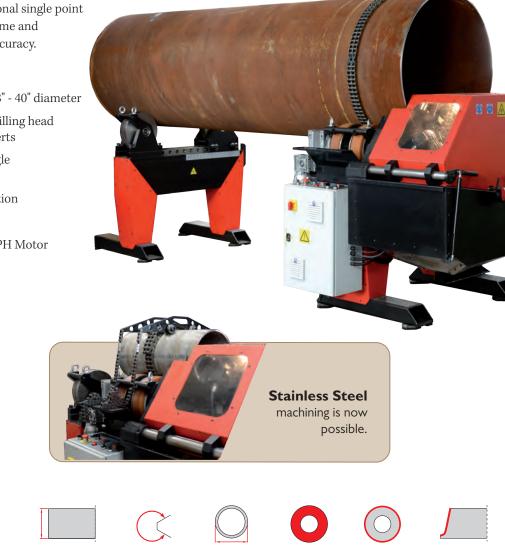
PRODUCE EFFICIENT AND ACCURATE WELD PREPARATION WITH HIGH-SPEED ROTARY MILLING HEAD WITH REPLACEABLE CUTTING INSERTS FOR LONG-TERM PERFORMANCE

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

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

FEATURES

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





width I-3/4"

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thickness 1/4"

Bevel angle from 0° to 60°

Pipe OD 8"-40"

Facing

Pipe J-groove

Pipe OD beveling

beveling





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HIGH-SPEED PIPE BEVELING SYSTEM FROM STEELMAX®

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

Accessories and optional equipment

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



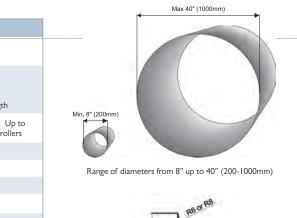


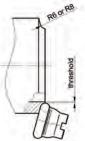
User-friendly control panel

Optional heavy-duty pipe support with 11-ton capacity



877-833-5629





R6 & R8 J-groove available with optional milling heads



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



Shields and internal lighting increase safety and comfort of the operator



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



Optional Oval Pipe Tracking Attachment allows out of round pipe beveling







LIFTING MAGNETS FROM STEELMAX[®]

MAX LIFTER LIFTING MAGNETS

FLAT OR ROUND MATERIAL HANDLING

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

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

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

FEATURES

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









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MAXLIFT 09/2019

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Part



Activation and Deactivation Phases

The simplicity of a single move.

Simply turning the handle,

the Max Lifter is activated

or deactivated. A self-locking

device prevents any possible

accidental deactivation of

the handle when in the

MAG position.



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







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

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Load Characteristic Plate

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

Load Characteristic Round Stock

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

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

Other sizes and applications available on special order.



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THIN GAUGE LIFTING MAGNETS FROM STEELMAX®

MAX LIFTER THIN GAUGE MAGNETS

SAFE. EFFICIENT HANDLING OF FLAT OR ROUND THIN STEEL

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

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

FEATURES

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

SM-ML150-TG



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



SM-ML300-TG

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

TRACK CUTTING MACHINE FROM STEELMAX[®]

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





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TORCH RUNNER FROM STEELMAX®





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

Standard kit includes:

SM-WC-TR:

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

SM-WC-TR-PLASMA:

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

Note: Torch, gas manifold and rail sold separately



TRACK CUTTING MACHINE FROM STEELMAX®

ACCESSORIES:

1. Track Assembly

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

2. Standard Gas Manifolds

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

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

3. Quick Acting Manifolds

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

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

OPTIONAL ACCESSORIES:

4. Standard Torch Holder-

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

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

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

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

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TORCH RUNNER FROM STEELMAX®

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

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

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

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

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

12. Cable Anchor

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

13. Roller Support

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

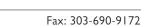




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C E

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

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

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

FEATURES

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





Optional 115–230 V power supply

Continuous welding

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

0—43 in/min (0-110 cm/min)

Vertical speed



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FILLET WELDING TRACTOR FROM STEELMAX®

Eco Runner Portable Fillet Welding Carriage

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

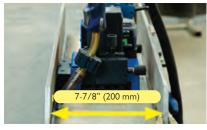
The **Eco Runner** is a battery-powered welding travel carriage designed to produce continuous fillet welds using MIG/MAG torches in the flat or vertical welding positions. Providing mechanized motion of the welding torch, the Eco Runner allows for continuous welding which increases operating factor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



Easily weld from end to end



Torch placement on either side



Welding in narrow spaces



Welding in narrow spaces



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

Optional Accessories:



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



• Torch holder

• 4 mm hex wrench • 3 mm hex wrench

Operator's Manual

• Battery

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

Standard Set Includes:

• Eco Runner Welding Carriage

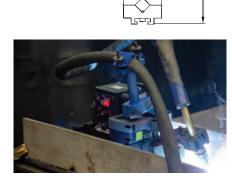
Battery Charger Sold Separately

Battery charger

5.2 Ah Battery

SM-WC-LR-BAT

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



7.5" (191 mm

٢

Easily place torch on either side of carriage







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

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PORTABLE WELDING CARRIAGE

Li'I RUNNER PORTABLE FILLET WELDING CARRIAGE

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

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

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



Standard kit includes:

dual-power battery-operated models.



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Power supply

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

Li'l Runner with flex rail for tank fabrication.



Li'I RUNNER FROM STEELMAX®

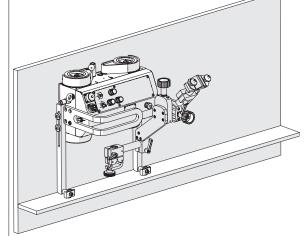
FEATURES

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

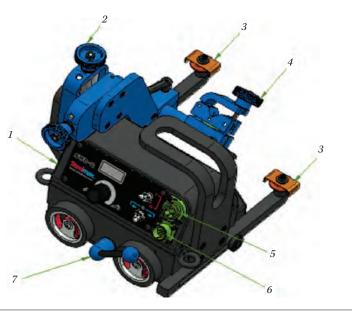
PRIMARY BENEFITS

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







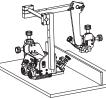


PORTABLE WELDING CARRIAGE

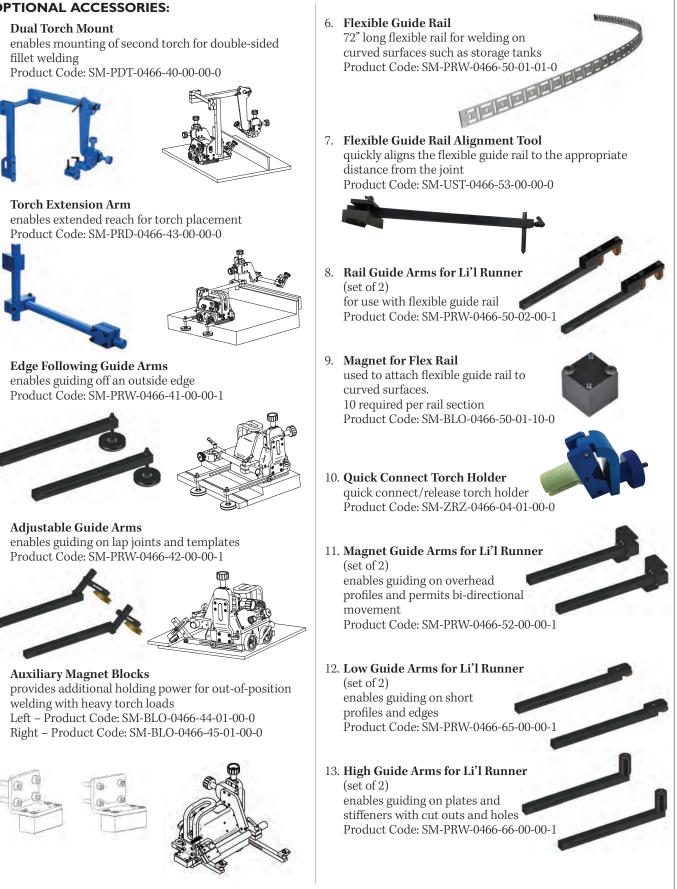
OPTIONAL ACCESSORIES:

fillet welding





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







5. Auxiliary Magnet Blocks



1. Drive unit with control panel

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

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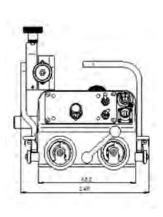
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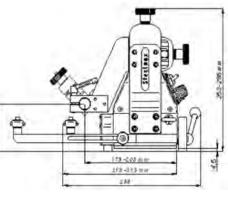
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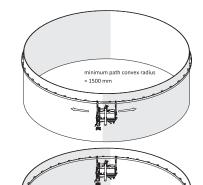


Li'I RUNNER FROM STEELMAX®

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







minimum path cor radius = 1500 mm

Li'l Runner DP Standard kit includes:

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

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





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PROGRAMMABLE WELDING CARRIAGE FROM STEELMAX®

ARC RUNNER

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

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

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

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

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



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



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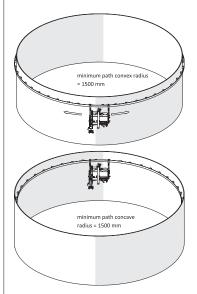


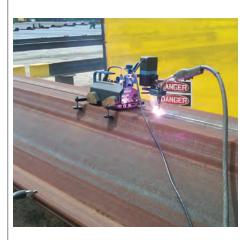
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ARC RUNNER FROM STEELMAX®

FEATURES

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







OPTIONAL ACCESSORIES:

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









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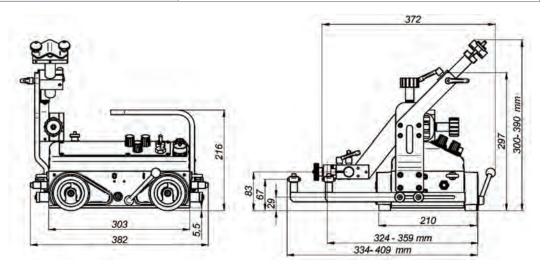
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PROGRAMMABLE WELDING CARRIAGE FROM STEELMAX®

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





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' E

DIGITALLY CONTROLLED TRACTOR FROM STEELMAX®

RAIL RUNNER LT

ALL POSITION WELDING AND CUTTING TRAVEL CARRIAGE

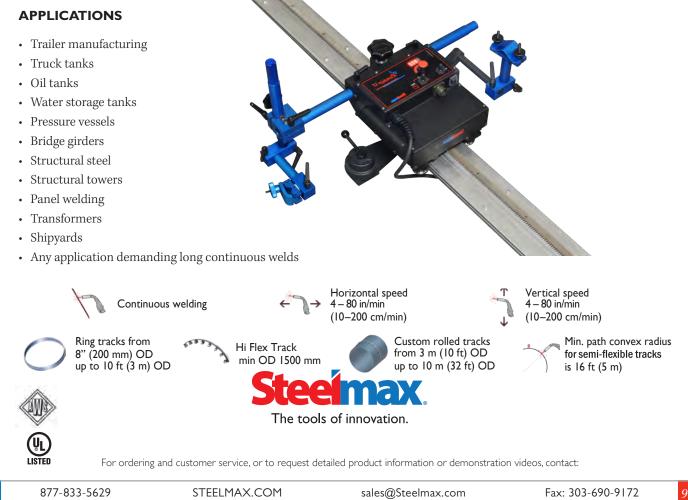
The Steelmax Rail Runner LT is a digitally controlled rail mounted travel carriage designed for the mechanization of welding and thermal cutting processes. Mechanized control of the welding or cutting torch allows continuous welding or cutting, increasing operating factor and deposition rates in welding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

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

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

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

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

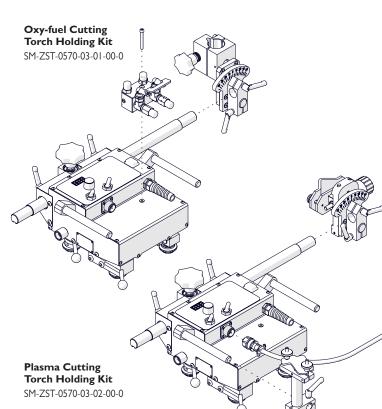


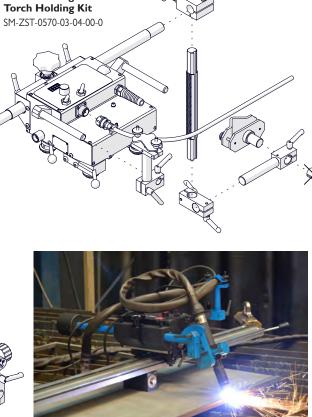


RAIL RUNNER LT

FEATURES

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





MIG/MAG Welding

Torch Holding Kit

SAW Welding

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



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

Standard shipping set:

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

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





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TRACK WELDING CARRIAGE FROM STEELMAX®

RAIL RUNNER

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

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

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

FEATURES

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









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TRACK WELDING CARRIAGE FROM STEELMAX®

Pail Punner Technical Specifications

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

The included equipment consists of:

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

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

• SM-DYS-0482-15-01-01-0

Refer to page 105 for available rail & magnet options.



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Suitable for work in both horizontal and vertical positions

User-friendly control panel



Additional accessories:

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



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



Mounting Bracket for Magnet







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MODULAR TRACK WELDING CARRIAGE FROM STEELMAX®

RAIL RUNNER II

MODULAR WELDING/CUTTING CARRIAGE WITH INTEGRATED SEAM TRACKING

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

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

APPLICATIONS

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





MODULAR TRACK WELDING CARRIAGE FROM STEELMAX®

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

FEATURES AND BENEFITS:

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

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



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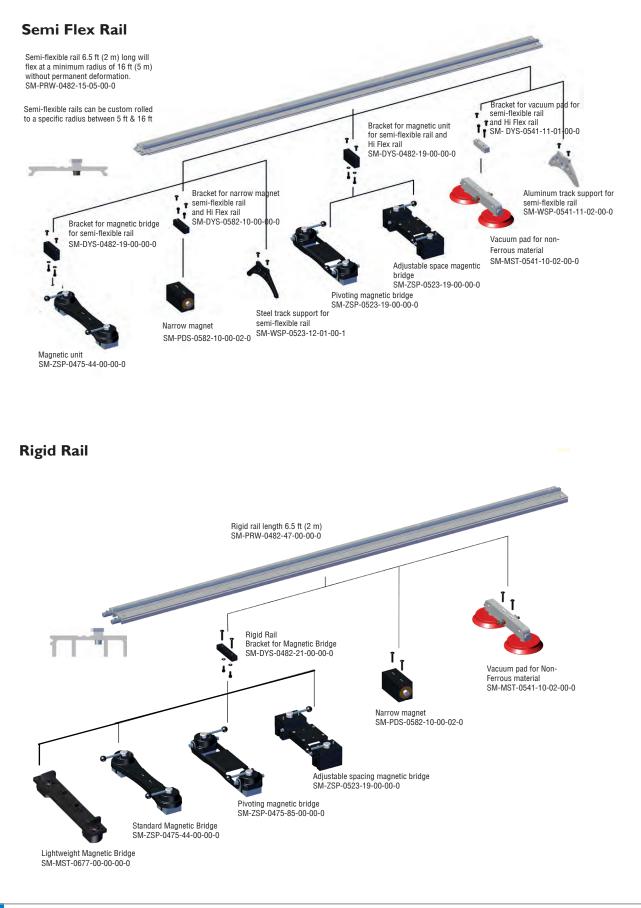
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RAIL OPTIONS FOR RAIL RUNNER FAMILY OF CARRIAGES



RAIL OPTIONS FOR RAIL RUNNER FAMILY OF CARRIAGES



WELDING OSCILLATOR & MINI-MANIPULATOR

Welding Oscillator

AUTOMATIC WEAVE WELDING

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

FEATURES

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

BENEFITS

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









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WELDING OSCILLATOR & MINI-MANIPULATOR

Oscillator Technical Specifications

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

Freestanding Mini-Manipulator

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

Mini-Manipulator Technical Specifications

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





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Mini-Manipulator with Oscillator



Mini-Manipulator as positioner

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CNC CUTTING FROM STEELMAX[®]

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

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CNC CUTTING FROM STEELMAX®

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

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

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

Standard Machine Package Includes:

- CNC Control Unit
- 4 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

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