

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.**

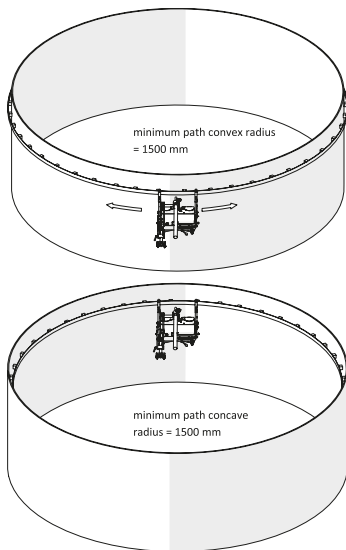
Steelmax®

The tools of innovation.

ARC RUNNER FROM STEELMAX®

FEATURES

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



1. Drive unit with control panel
2. Main Supply Switch (0/I)
3. Cross slide assembly
4. Guide arm assembly with brass roller wheel
5. Quick release torch holder (*optional accessory*)
6. Power supply socket
7. Arc control cable socket
8. Magnetic adhesion release lever
9. Cable holder

OPTIONAL ACCESSORIES:

1. Oscillator

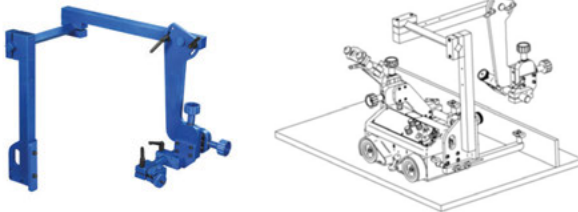
| Oscillator Technical Specifications | |
|-------------------------------------|---------------------|
| Oscillation type | Pendulum |
| Amplitude R-150 mm | 0.08-1.2" (2-30 mm) |
| Frequency | 12-115 cycles/min |
| Dwells | 0-3 s. |
| Weight | 5.5 lbs (2.5 kg) |
| Product Code | SM-WC-AR-OSC |



2. Dual Torch Mount

enables mounting of second torch for dual-sided fillet welding

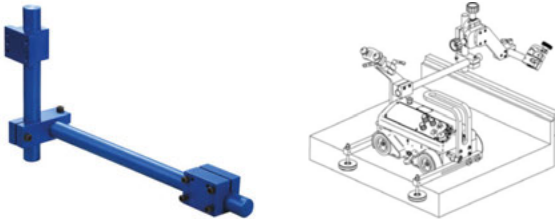
Product Code: SM-PDT-0466-40-00-00-0



3. Torch Extension Arm

enables extended reach for torch placement

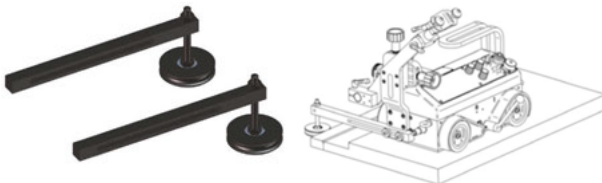
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4. Edge Following Guide Arms

enables guiding off an outside edge

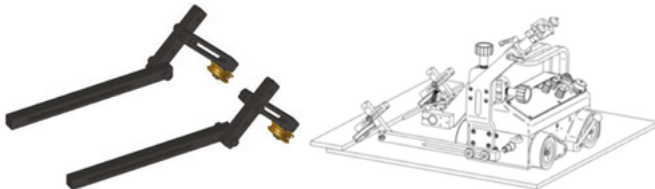
Product Code: SM-PRW-0476-21-00-00-1



5. Adjustable Guide Arms

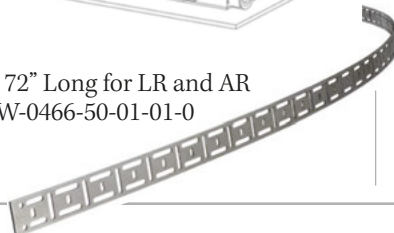
enables guiding on lap joints and templates

Product Code: SM-PRW-0476-22-00-00-1



6. Flexible Guide Rail 72" Long for LR and AR

Product Code: SM-PRW-0466-50-01-01-0



7. Flexible Guide Rail Alignment Tool

quickly aligns the flexible guide rail to the appropriate distance from the joint

Product Code: SM-UST-0466-53-00-00-0



8. Rail Guide Arms for Arc Runner

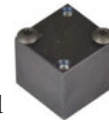
(set of 2)

Product Code: SM-PRW-0476-50-01-00-1

9. Magnet for Flex Rail

(LR and AR) - 10 required

Product Code: SM-BLO-0466-50-01-10-0



10. Quick Connect Torch Holder

quick connect/release torch holder

Product Code: SM-ZRZ-0466-04-01-00-0



11. Magnet Guide Arms for Arc Runner

(set of 2)

enables guiding on overhead profiles and permits bi-directional movement

Product Code: SM-PRW-0476-52-00-00-0



12. Low Guide Arms for Arc Runner

(set of 2)

enables guiding on short profiles and edges

Product Code: SM-PRW-0476-54-00-00-1



13. High Guide Arms for Arc Runner

(set of 2)

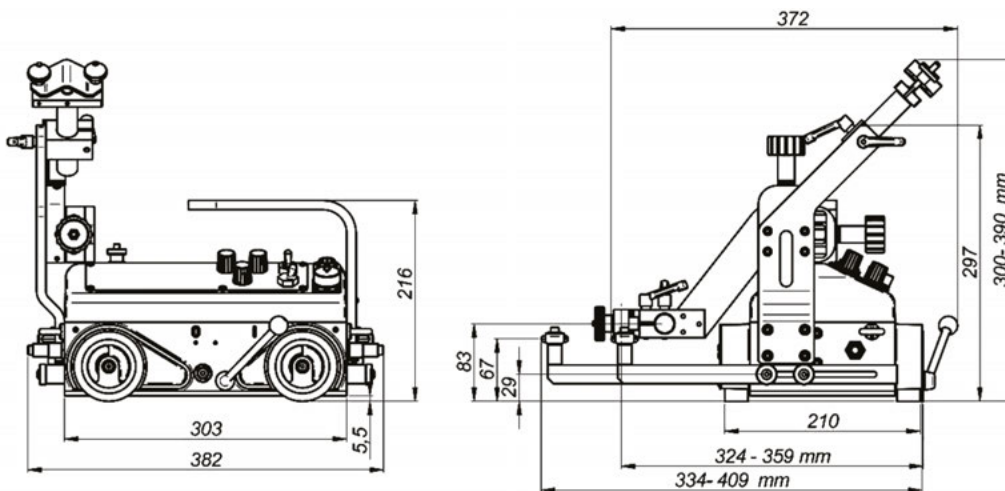
enables guiding on plates and stiffeners with cut outs and holes

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



PROGRAMMABLE WELDING CARRIAGE FROM STEELMAX®

| Arc Runner Technical Specifications | | |
|-------------------------------------|-------------------------|--|
| Part Number | | SM-WC-AR or SM-WC-AR-230 |
| Power supply | | 115-230 VAC / 50-60 Hz (separate units due to plug interface) |
| Welding positions | | Vertical / Horizontal |
| Chassis to material clearance | | 3/16" (5 mm) minimum |
| Drive system | | Friction drive with worm gear reduction Four wheel drive, heat resistant silicone wheels |
| Tracking method | | 2 roller guides in various configurations |
| Towing force | | Vertical: 33.7 ft. lbs (150 Nm) Horizontal: 49.5 ft. lbs (220 Nm) |
| Torch adjustment | Up-Down | 1-3/8" (35 mm) |
| | Left-Right | 1-3/8" (35 mm) |
| Guide roller adjustment | | 3" (75 mm) |
| Control panel | Travel direction switch | program start, direction left / stop / program start, direction right |
| | Function button F1 | Continuous welding, dash, crater fill, backweld |
| | 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) 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) |



Steelmax
The tools of innovation.

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

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