

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.

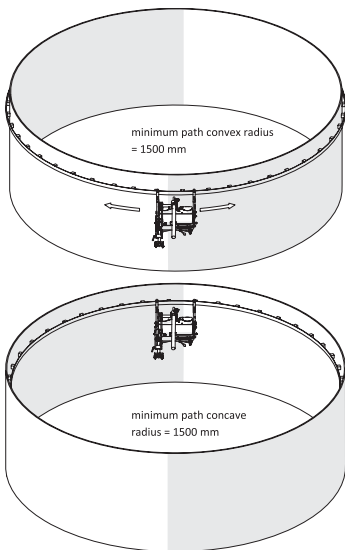
Steelmax®

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:

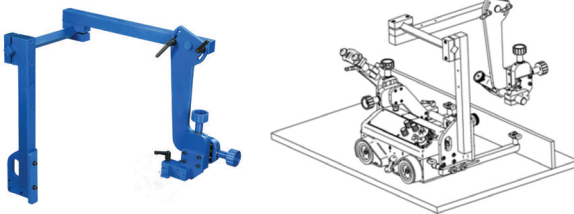
1. Oscillator

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



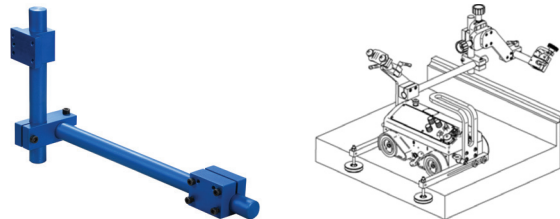
2. Dual Torch Mount

enables mounting of second torch for dual-sided fillet welding
Product Code: SM-PDT-0466-40-00-00-1



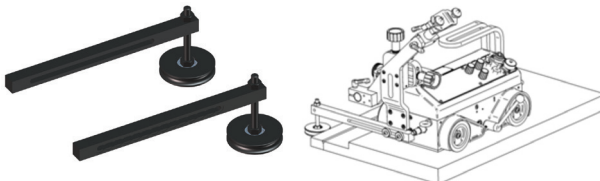
3. Torch Extension Arm

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



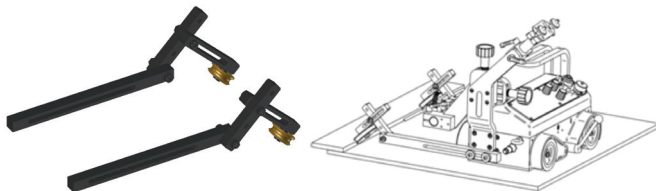
4. Edge Following Guide Arms

enables guiding off an outside edge
Product Code: SM-PRW-0476-21-00-00-1

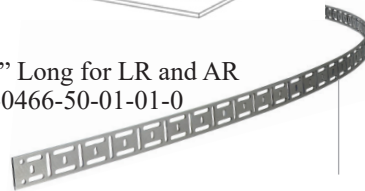


5. Adjustable Guide Arms

enables guiding on lap joints and templates
Product Code: SM-PRW-0476-22-00-00-1



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



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



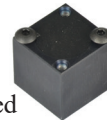
8. Rail Guide Arms for Arc Runner (set of 2)

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)

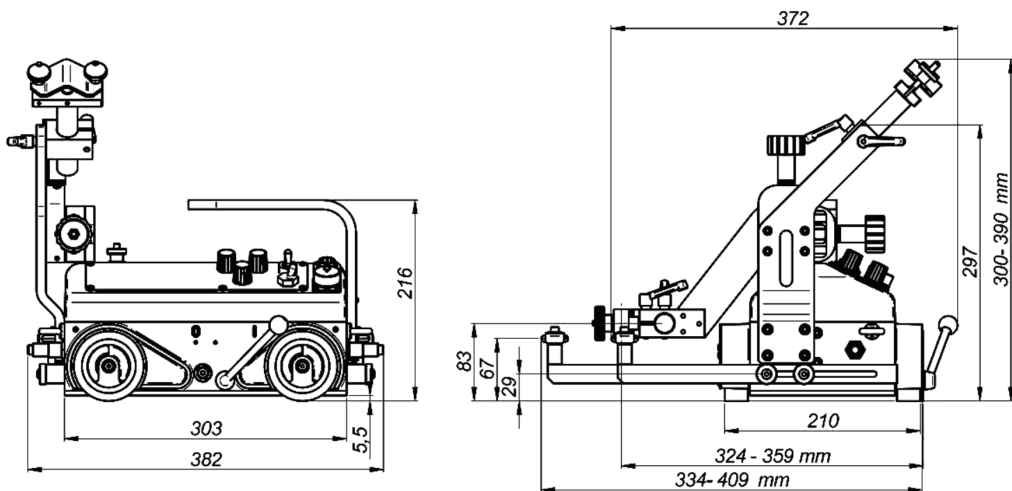
enables guiding on plates and stiffeners with cut outs and holes
Product Code: SM-PRW-0476-55-00-00-1



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)	



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