

## ARC RUNNER

### PROGRAMMABLE WELDING CARRIAGE REPEATS OPTIMUM WELD PROCEDURE

The **Steelmax® Arc Runner** is a portable, programmable welding carriage designed to produce consistently 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.

The Arc Runner also offers an optional torch oscillator to produce weave welds. This oscillator features precise control of weave width, weave speed and left/right side wall dwell.

Arc Runner's micro processor 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.



**Steelmax**

The tools of innovation.

# ARC RUNNER FROM STEELMAX®

## FEATURES

- Compact , lightweight design with durable aluminum cast housing
- Permanent magnet clamping system with on/off lever ensures positive magnetic traction
- Maintenance free 4-wheel drive with worm gear reduction
- Quick clamping Torch Holder mechanism for different types of welding torches with diameters of 5/8" – 7/8" (16-22 mm); optionally up to 1-3/8" (35 mm)
- Precise torch adjustment with screw drive cross slide
- 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 workers 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 clamp torch holder
6. Power supply socket
7. Weld contact / arc start socket
8. Magnetic adhesion release lever
9. Cable holder



## OPTIONAL ACCESSORIES:

### 1. Oscillator

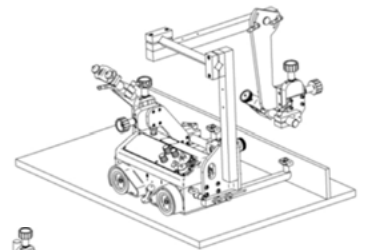
Oscillator Technical Specifications	
Oscillation type	Pendulum
Amplitude R-150 mm	0.08-1.2" (2-30 mm)
Frequency	12-115 cycles/min
Dwells	0-3 s.
Weight	5.5 lbs (2.5 kg)
Product Code	<b>SM-WC-AR-OSC</b>



### 2. Dual Torch Mount

enables mounting of second torch for dual-sided fillet welding

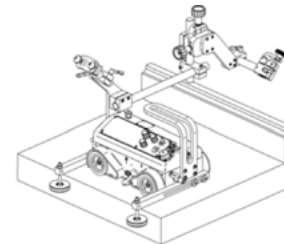
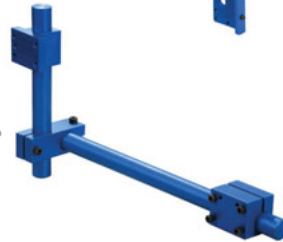
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### 3. Torch Extension Arm

enables extended reach for torch placement

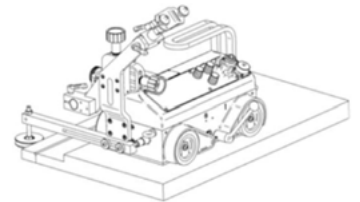
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### 4. Edge Following Guide Arms

enables guiding off an outside edge

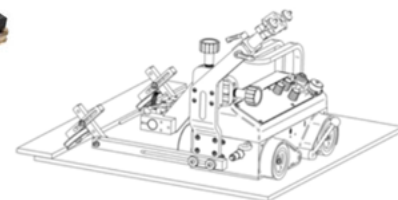
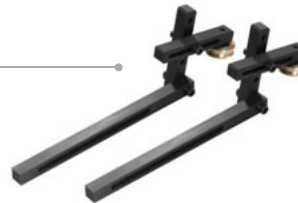
Product Code: SM-PRW-0476-21-00-00-0



### 5. Adjustable Guide Arms

enables guiding on lap joints and templates

Product Code: SM-PRW-0476-22-00-00-0



### 6. Torch Holder Long Rod Clamp Assembly

Product Code: SM-WLK-0466-04-10-00-0



### 7. Torch Holder Clamp 22-35

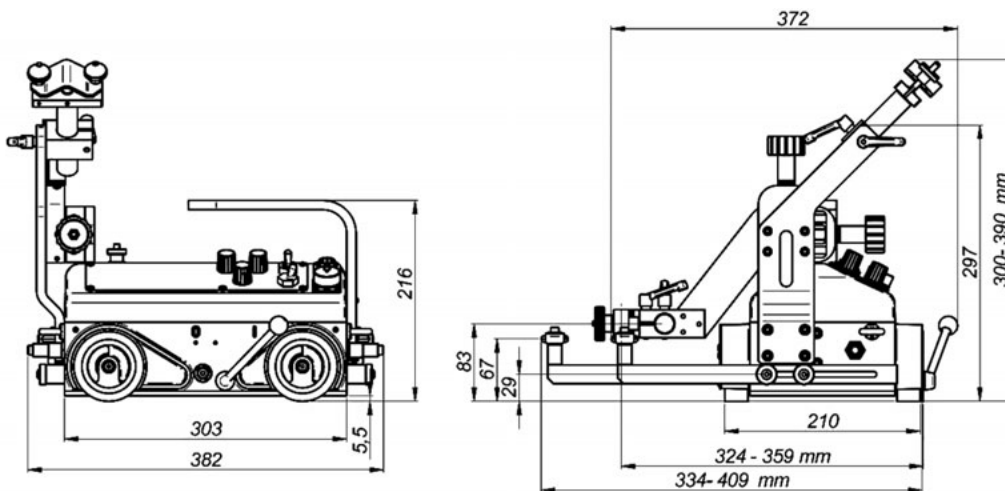
enables mounting of torches with diameters from 7/8" (22 mm) to 1-3/8" (35 mm)

Product Code: SM-ZRZ-0466-19-00-00-0



# PROGRAMMABLE WELDING CARRIAGE FROM STEELMAX®

Arc Runner Technical Specifications		
Part Number		<b>SM-WC-AR</b> or <b>SM-WC-AR-230</b>
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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