

RAIL BULL | WELDING & CUTTING RAIL TRACTOR

RAIL BULL is a digitally controlled welding tractor with an integrated linear oscillator that produces straight and trapezoid weld paths.

The tractor can move along rigid or semi-flexible tracks and is suitable for variety of circumferential and irregular surface applications down to min. radius of 5000 mm.

RAIL BULL can be clamped to ferrous materials with magnetic units and to non-ferrous materials by means of a vacuum track system incl. vacuum pump and vacuum units.

Featuring a rack and pinion drive system with electronic speed control, RAIL BULL can produce consistent, high-quality welds in flat, vertical, or horizontal positions.

Features and benefits:

- Closed loop position control system based on an electric motor with an encoder ensures increased accuracy of speed and positioning
- Integrated linear oscillator for weave welding and overlay
- Multifunctional LCD shows process parameters and warnings
- Compact, lightweight design with a durable aluminum cast housing
- Convenient power supply 115–230 V, 50–60 Hz or 42 V, 50–60 Hz
- Rail Bull produces consistently high-quality welds and cuts in a fraction of the time required by manual operations



42V AC version available



Continuous
welding



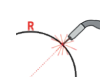
Linear oscillation with
trapezoid and straight
line paths



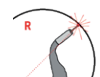
Horizontal speed
0–120 cm/min



Vertical speed
0–110 cm/min



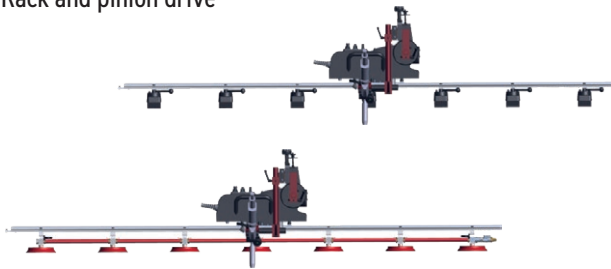
Min. path convex
radius 5000 mm



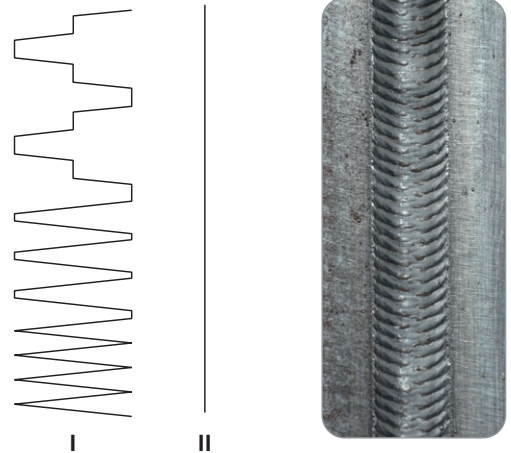
Min. path concave
radius 5000 mm

More features and benefits:

- Quick clamping torch holder mechanism for different types of MIG/MAG torches with diameters of 16–22 mm (0.63–0.87"); up to 35 mm (1.38") option
- Precise torch adjustment with screw drive cross slide
- Ready to work in both vertical and horizontal positions
- Consistent heat input reduces distortion
- Reduce wasted filler metal - eliminates over welding
- Automatic arc on/off initiates welding and travel, simultaneously
- Improves working environment - removes operator from heat and fumes
- Rack and pinion drive



Weld paths:



- I. Trapezoid The tractor travels continuously even during dwell mode. Weld path is determined by weave speed and dwell time at center and on sides of the weld path.
- II. Straight The tractor travels continuously while oscillation is switched-off.

Standard accessories:



Dual Arc Ignition Cable of 6.5 m (21 ft)
KBL-0466-17-00-00-0



Short rod torch holder with clamp 16–22 mm
UCW-0754-07-00-00-0



Cable Anchor
UCW-0482-17-00-00-0



Cross slide assembly
PRW-0482-11-00-00-0

Optional accessories:



Torch clamp 16–22 mm
ZRZ-0752-07-01-00-0



Torch clip 16–22 mm
ZCS-0476-06-01-00-0



Torch clamp 22–35 mm
ZRZ-0466-19-00-00-0



Short Rod Clamp
WLK-0476-20-01-00-0



Short rod torch holder with clip 16–22 mm
UCW-0476-27-00-00-0



Long Rod Clamp
WLK-0466-04-10-00-0



Long rod torch holder with clamp 16–22 mm
UCW-0752-07-00-00-0



Long rod torch holder with clip 16–22 mm
UCW-0466-22-00-00-0



Torch Holder Lower Rod Clamp Assembly
UCW-0476-06-00-00-0



Extended cross-slide 0–76 mm (0–3") either up-down or left-right
ZSP-0466-46-00-00-1



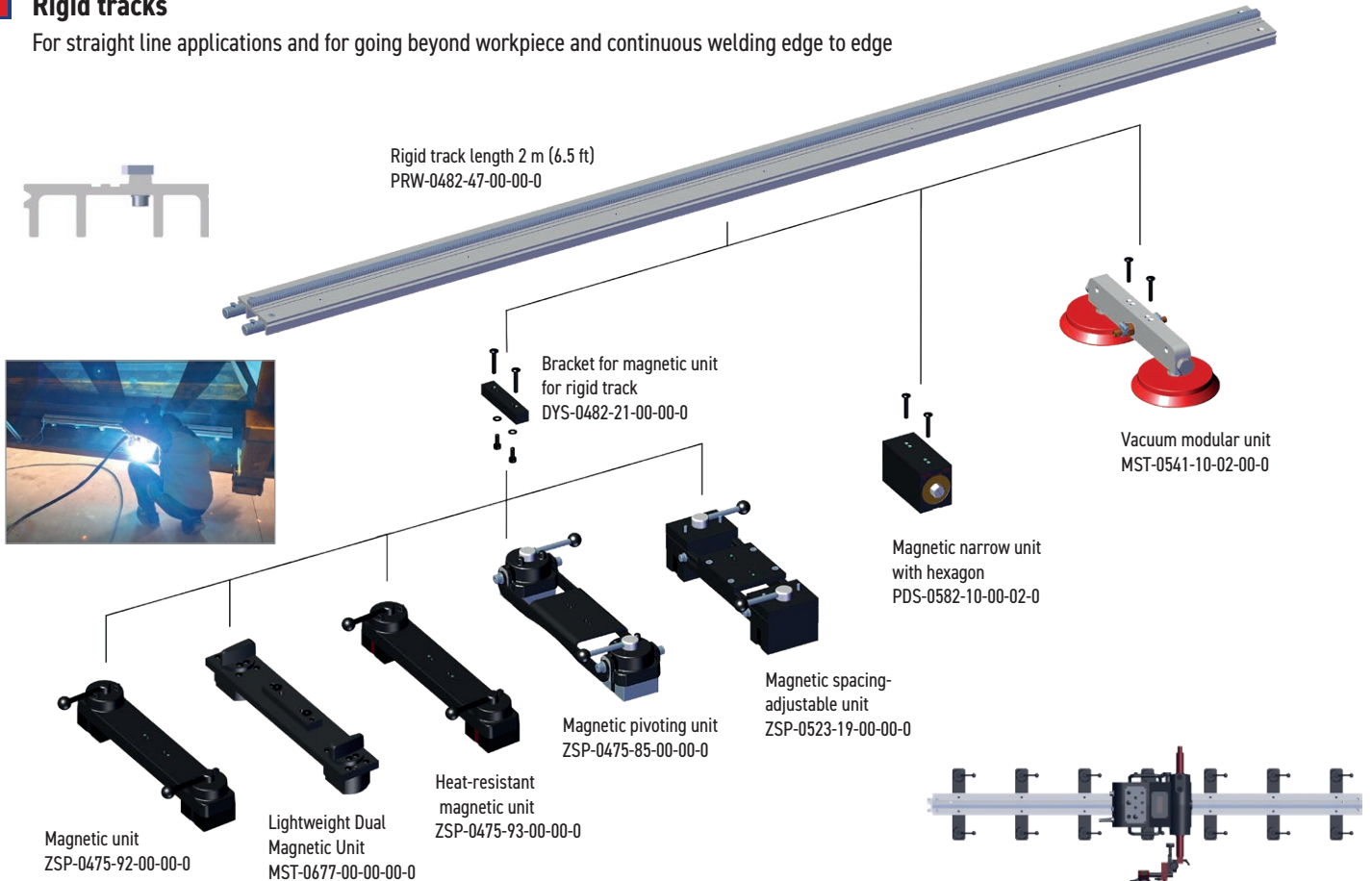
Gear Rack Adjustment Tool
PKT-0341-13-00-00-0



Transport Attachment
PEP-0482-18-00-00-0

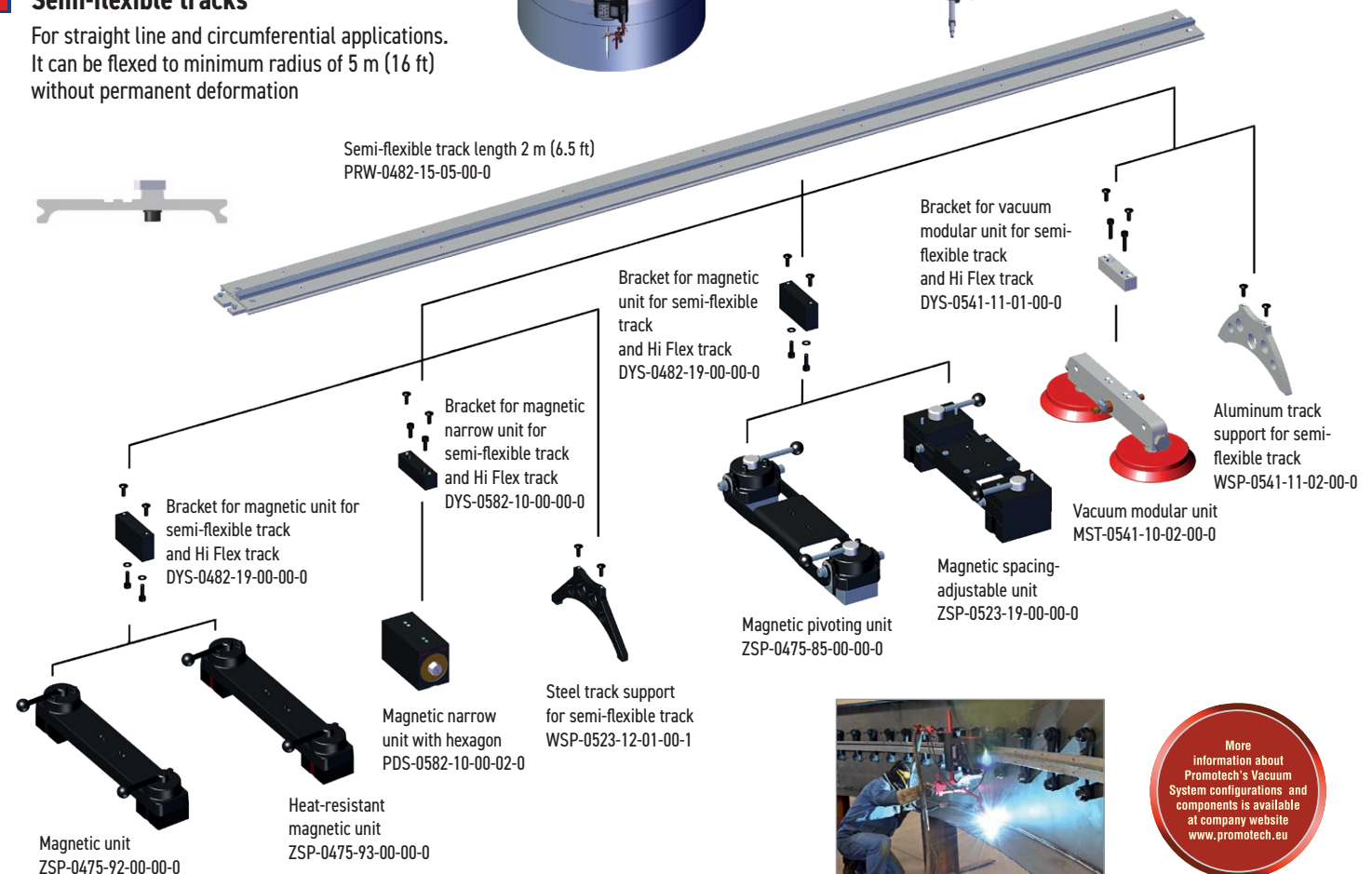
Rigid tracks

For straight line applications and for going beyond workpiece and continuous welding edge to edge



Semi-flexible tracks

For straight line and circumferential applications. It can be flexed to minimum radius of 5 m (16 ft) without permanent deformation

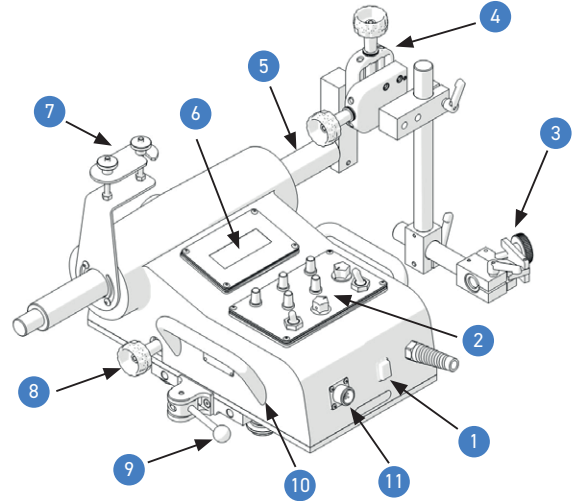
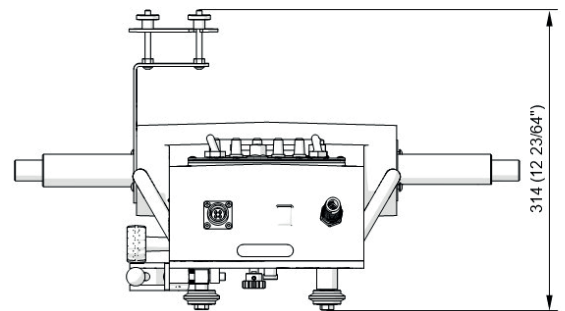
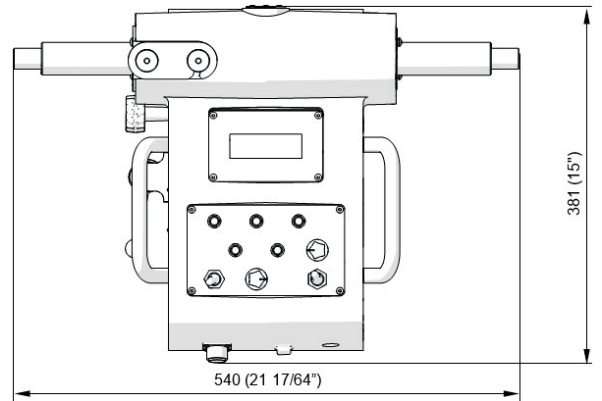


More information about Promotech's Vacuum System configurations and components is available at company website www.promotech.eu

RAIL BULL TECHNICAL SPECIFICATION

Voltage	1~ 115-230 V, 50-60 Hz 42 V, 50-60 Hz	
Power	100 W	
Welding position (according to EN ISO 6947 and AWS/ASME)	Horizontal	PA/1F/1G PB/2F PC/2G PD/4F PE/4G
	Vertical	PF/3G PG/3F (contact your dealer) PG/3G
Minimum curve radius of a semi flex track	5 m (16 ft)	
Torch type	MIG/MAG	
Torch diameter	16-22 mm (5/8"-55/64") up to 35 mm (1.38") option	
Minimum workpiece thickness for magnetic clamping	5 mm (13/64")	
Horizontal pulling force	350 N	
Vertical pulling force	150 N	
Cross slide adjustment range	0-35 mm (0-1 3/8", up-down, left-right)	
Horizontal speed	0-120 cm/min (0-47 1/4 in/min)	
Vertical speed	0-110 cm/min (0-43 5/16 in/min)	
Oscillation type	Linear	
Oscillation path	Trapezoid, straight line	
Oscillation width	0-50 mm (0-1 31/32")	
Oscillation speed	0-1500 mm/min (0-59 1/16 in/min)	
Oscillation dwell time at center and on ends	0-5 s	
Maximum oscillator pulling force	100 N	
Weight	16,5 kg (36.3 lbs)	
Product Code (115-230 V, 50-60 Hz, plug EU)	W0Z-0760-10-20-00-0	
Product Code (115-230 V, 50-60 Hz, plug G)	W0Z-0760-10-20-01-0	
Product Code (42 V, 50-60 Hz)	W0Z-0624-10-04-00-0	

■ Dimensions:



- | | |
|----------------------------|-------------------------|
| 1. Power switch | 7. Cable anchor |
| 2. Control panel | 8. Drive clutch knob |
| 3. Torch holder with clamp | 9. Mounting lever |
| 4. Cross slide assembly | 10. Carrying handle |
| 5. Oscillator arm | 11. Arc ignition socket |
| 6. Display | |

■ Standard shipping set:

- Carton box
- Cross slide assembly
- Short rod torch holder with clamp
- 6.5 m (21 ft) arc ignition cable
- 3 mm hex wrench
- 4 mm hex wrench
- Operator's Manual

More information available at www.promotech.eu



All information is subject to change without notice. 24.10



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