

■ RAIL BULL | TRACK WELDING CARRIAGE WITH OSCILLATOR

The Rail Bull is a track welding carriage designed to produce butt and fillet welds with or without oscillation.

The carriage can work in PA (flat), PB (horizontal vertical), PC (horizontal), PD (overhead horizontal-vertical), PE (overhead), PF (vertical-up) and PG (vertical-down) welding positions.



■ Applications:

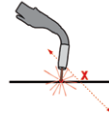
- Trailer manufacturing
- Truck tanks
- Oil tanks
- Water storage tanks
- Pressure vessels
- Vessel overlay/Hard facing
- Bridge girders
- Structural steel
- Structural towers
- Panel welding
- Transformers
- Shipyards
- Any application demanding long, continuous welds

Rail Bull moves along either rigid or semi-flexible track.

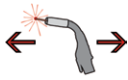
Both types of tracks are fixed to flat or curved ferromagnetic surfaces by means of dual magnetic units. The minimum curvature radius required is 5 m (16 ft).



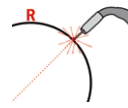
Continuous welding



Linear oscillation with trapezoid, triangle and straight line paths



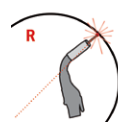
Horizontal speed 0-120 cm/min



Min. path convex radius 5000 mm

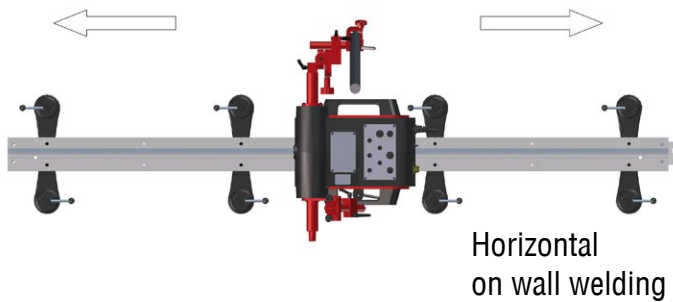


Vertical speed 0-110 cm/min



Min. path convex radius 5000 mm

Versatility of applications including out-of-position use



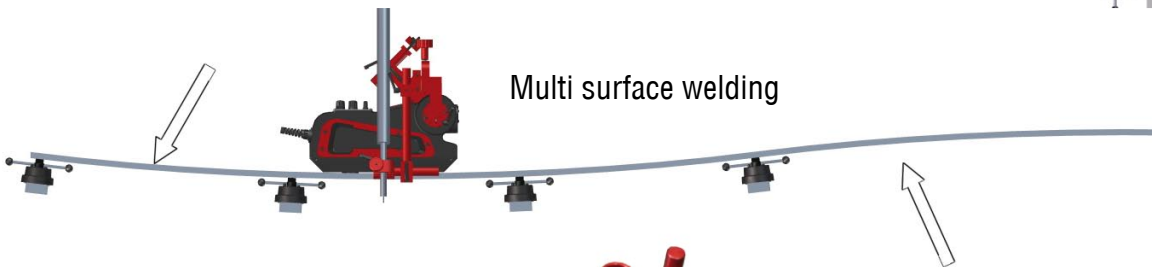
Horizontal on wall welding



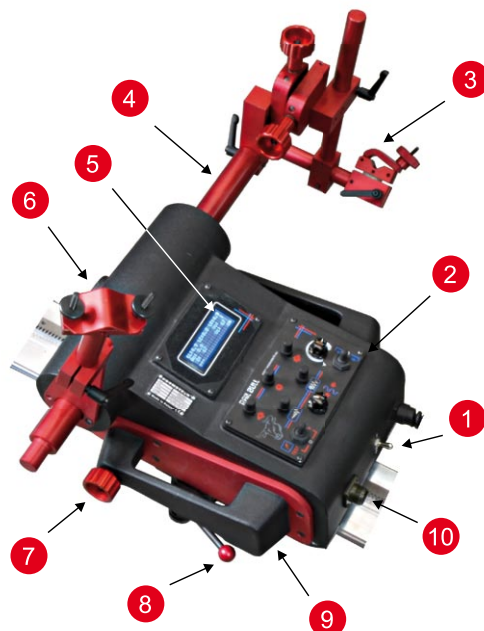
Horizontal welding



Vertical welding



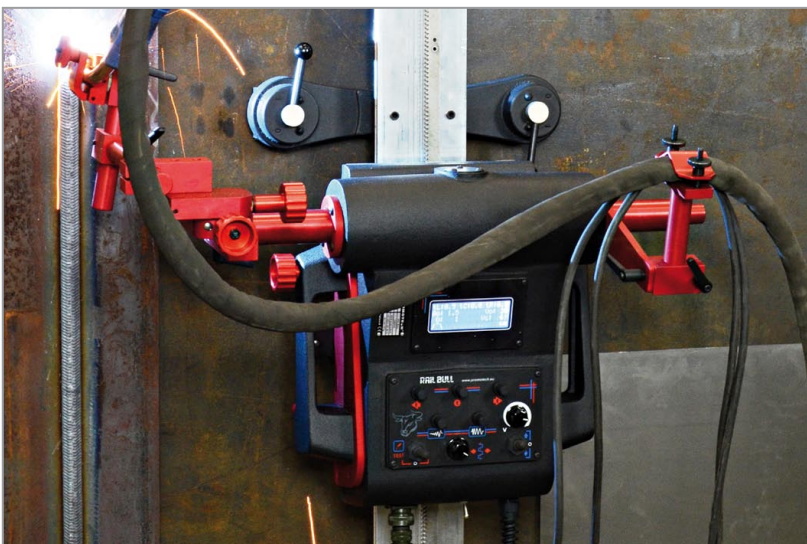
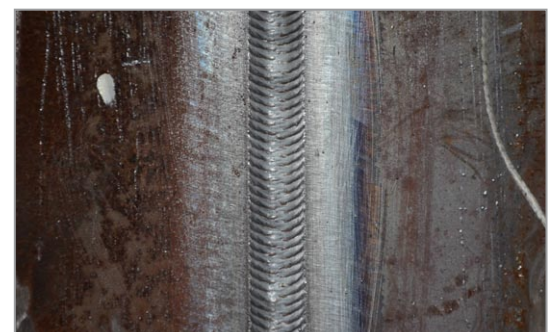
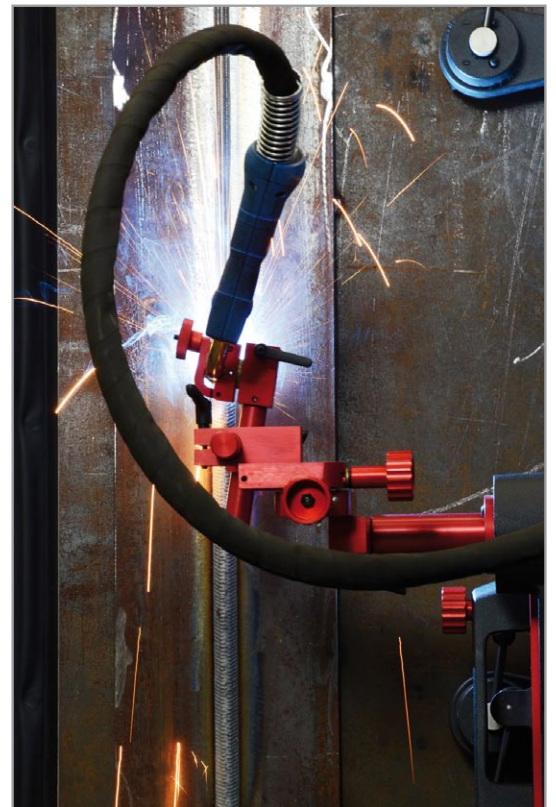
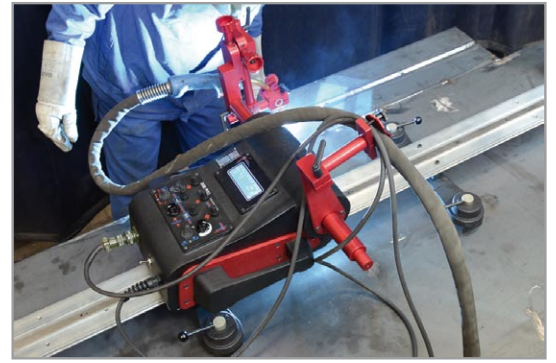
Multi surface welding



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

Primary features and benefits:

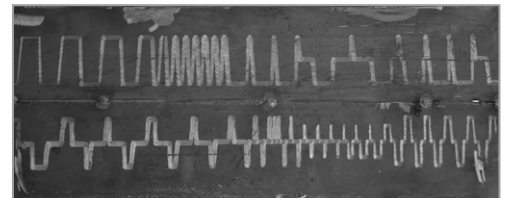
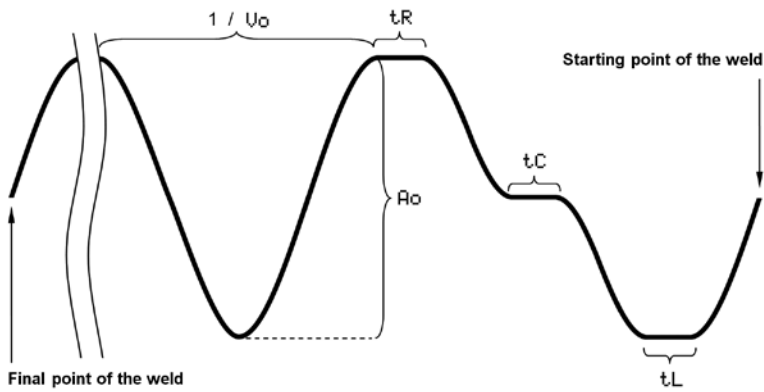
- Compact, lightweight design with durable aluminum cast housing
- Convenient power supply 115-230V 50/60Hz
- Quick clamping torch holder mechanism for different types of MIG/MAG torches with diameters of 16-22 mm (0.63 – 0.87"); up to 35 mm (1.38") option
- Precise torch adjustment with screw drive cross slide
- Ready to work in both vertical and horizontal positions
- Multifunctional LED display (process parameters & warnings)
- Consistent heat input reduces distortion
- Reduce wasted filler metal – eliminates over welding
- Automatic arc on/off initiates welding and travel, simultaneously
- Closed loop position control system based on electrical motor with encoder, ensures increased accuracy of speed and positioning
- Improves working environment - removes operator from heat and fumes
- Linear torch oscillator to produce weave welds
- Menu in English (other languages on request)
- Rack and pinion drive
- Continuous welding
- Rigid rail track system



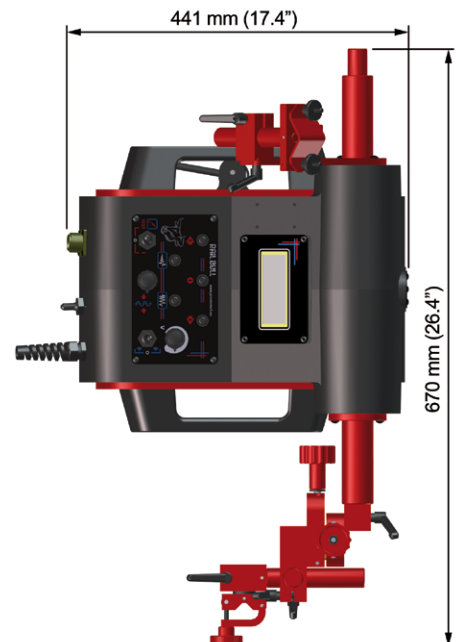
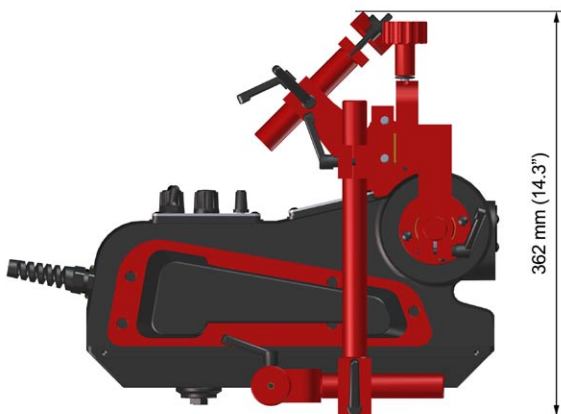
TECHNICAL SPECIFICATIONS RAIL BULL

Voltage	1~ 115–230 V, 50–60 Hz
Power	100 W
Welding position (according to EN ISO 6947 and AWS/ASME)	PA / 1F / 1G PB / 2F PC / 2G PD / 4F PE / 4G PF / 3G PG / 3G
Torch diameter	16–22 mm (0.63–0.87"); up to 35mm (1.38") option
Minimum radius of curved workpiece surface	5000 mm (16 ft)
Minimum workpiece thickness	5 mm (0.2")
Horizontal pulling force	350 N
Vertical pulling force	150 N
Cross slide adjustment range	0–35 mm (0–1.38") up-down, left-right
Horizontal speed	0–120 cm/min (0–47.2 in/min)
Vertical speed	0–110 cm/min (0–43.3 in/min)
Weight	20 kg (44 lbs)
Welding settings storage	1 (last used)
Oscillation type	linear (0 - 100 mm)
Oscillation (weaving) pattern	trapezoid, triangle, straight line
Oscillation width	0–50 mm (0–1.9")
Oscillation speed	0–1500 mm/min (0–59 in/min)
Oscillation delay time	0–5 s (at external and central points)

Oscillator settings diagram



Dimensions:



Standard accessories:



Power Cord 3m (10 ft)



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



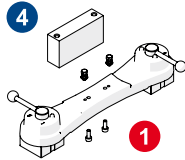
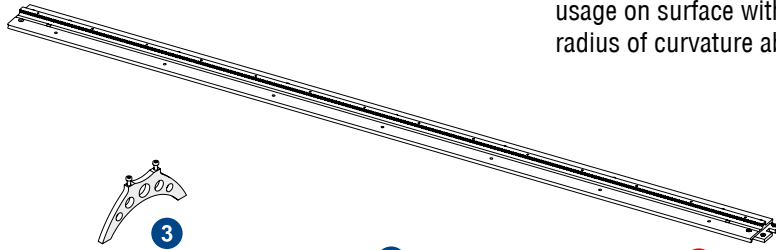
UCW-0476-20-00-00-0
Torch Holder Short Rod Clamp Assembly



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

SEMI FLEXIBLE TRACK

Semi flexible track enables usage on surface with a radius of curvature above 5m.



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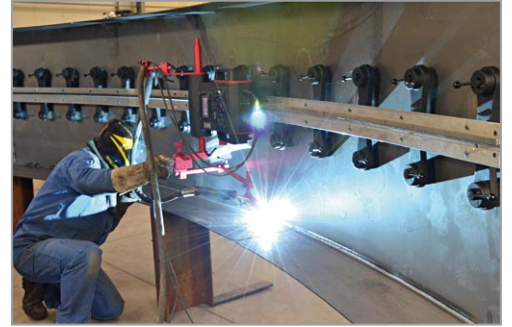
DYS-0482-15-01-01-0
Bracket for Semi Flexible Track

3



WSP-0523-12-01-00-0
Track Support for Semi Flexible Track

4



main components



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PRW-0482-15-05-00-0
Semi Flexible Track

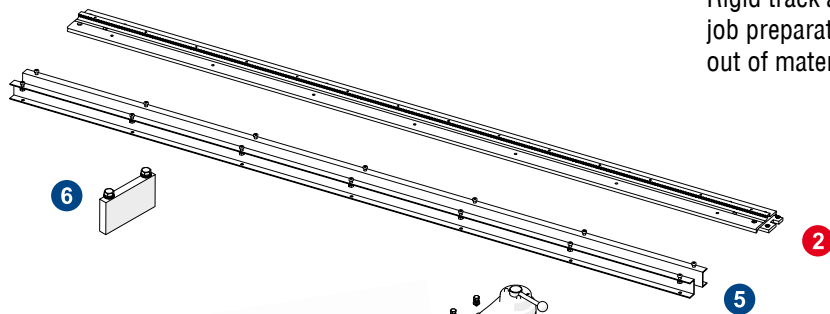
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ZSP-0475-44-00-00-0
Track Dual Magnetic Unit

RIGID TRACK

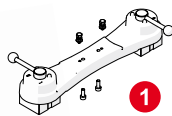
Rigid track allows easy job preparation from out of material.



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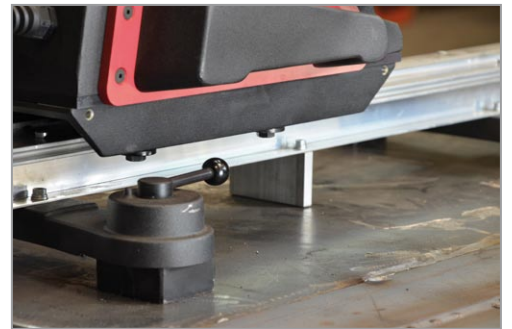
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WSP-0523-13-01-00-0
Rigid Track Up-grade Set incl. stiffeners, screws, washers, nuts

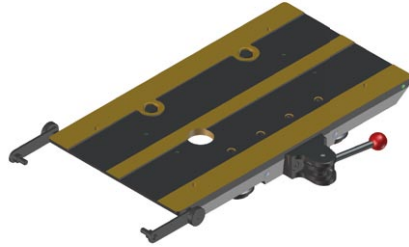
WSP-0523-13-02-00-0
Track Support for Rigid Track



Optional accessories for variety of applications:



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



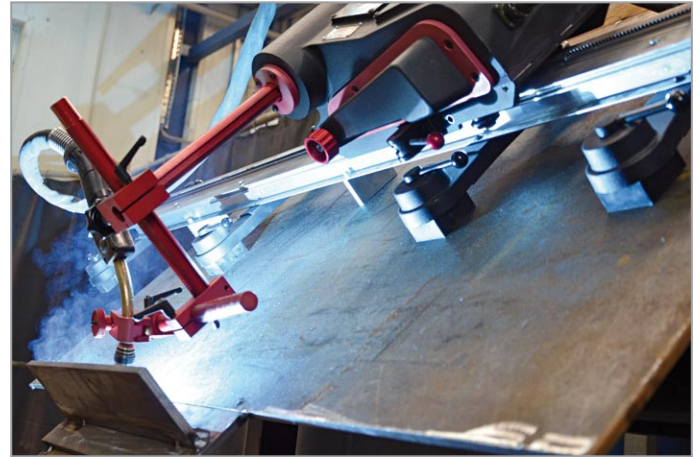
PEP-0482-18-00-00-0
Transport Attachment



ZCS-0476-06-01-00-0
16-22mm Torch Clip



ZRZ-0466-19-00-00-0
22-35mm Torch Clamp



Rail Bull is suitable for work in both horizontal and vertical positions

The Rail Bull welding carriage is supplied in a metal box including:

- welding carriage
- metal box
- cross slide assembly
- short rod torch holder with clamp
- cable anchor
- power cord 3 m (10 ft)
- arc ignition cable of 6.5 m (21 ft)
- 3 mm hex wrench
- 4 mm hex wrench
- operator's manual

More information available at www.promotech.eu



Rail Bull features
User-friendly
control panel



American Welding Society
Supporting Company Member

Mitglied im **DVS**
Deutscher Verband für Schweißen
und verwandte Verfahren e.V.



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Your local dealer:



All information is subject to change without notice. 1502