PROMOTECH



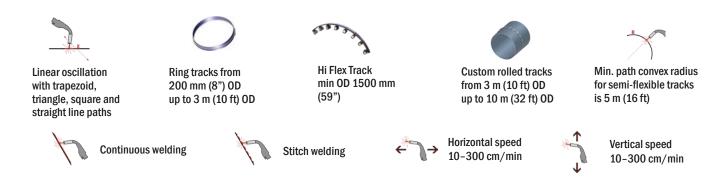
RAIL BULL 2

MODULAR TRACK WELDING TRACTOR FOR ALL-POSITION MECHANIZED WELDING AND CUTTING

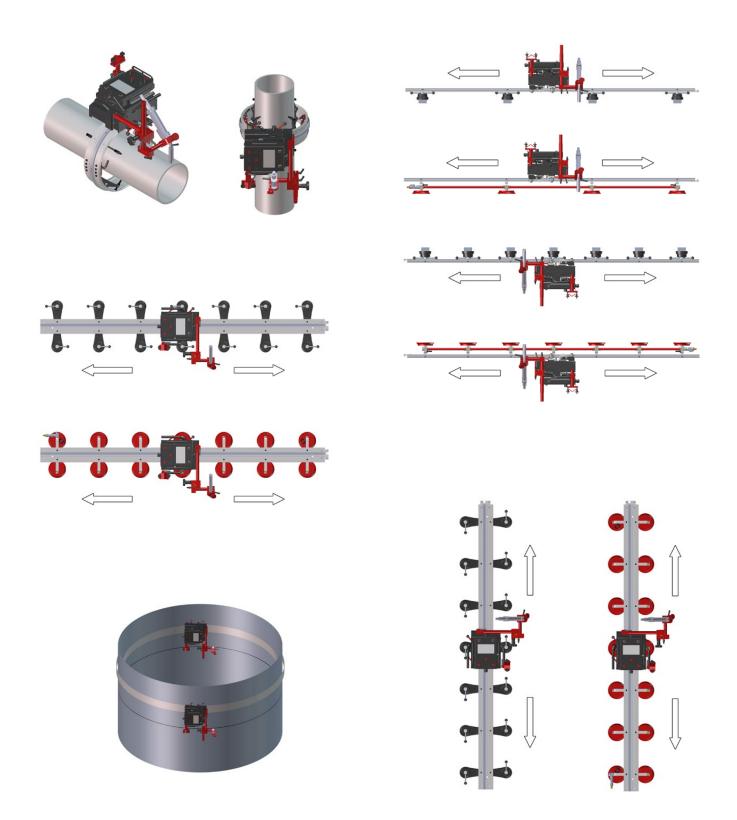
Primary features and benefits:

- Fully modular mechanized travel tractor can be custom configured for a variety of welding, thermal cutting and gouging applications on flat or curved plate, tube and pipe
- · Linear torch oscillator to produce weave welds
- Active compensation of torch position vertically and horizontally by means of modular automatic seam tracking system
- · Programmable path of stitch welds
- Possibility to select one limit switch preset out of three presets available.
- Suitable for variety of circumferential and irregular surface applications down to minimum radius of 100 mm (4")
 - Ring tracks on diameters from 200 mm (8") OD up to 3 m (10 ft) OD
 - Hi-Flex tracks on diameters from 1500 mm (59") OD upwards
 - Custom rolled tracks on diameters from 3 m (10 ft) OD up to 10 m (32 ft) OD
 - Semi-flexible tracks can be flexed to minimum radius of 5 m (16 ft) without permanent deformation
- Ergonomic remote control pendant with simple and easy to find control knobs makes adjustments possible without lifting of the operators welding hood
- Magnetic adhesion of the pendant provides firm grip on ferromagnetic materials
- Suitable for all welding positions on both ferromagnetic and non-ferromagnetic materials thanks to rack and pinion drive and various tracks equipped with magnetic or vacuum units
- Rail Bull 2 produces consistent high quality welds and cuts in a fraction of the time required by manual operations
- High speed up to 3 m/min makes plasma cutting available





Rail Bull 2 can work in all welding positions on both ferromagnetic and non-ferromagnetic materials by using rack and pinion drive and various tracks equipped with magnetic or vacuum units.



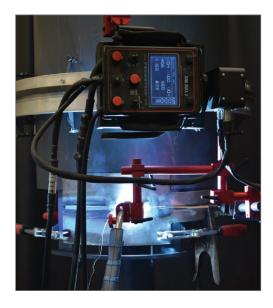
Features and benefits:

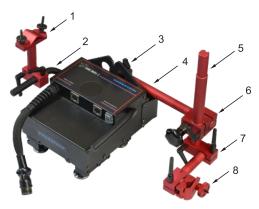
- Easy to upgrade modular design
- Continuous and programmable path of stitch welds (weld length, space between welds, backweld length, crater fill time)
- Linear torch oscillator to produce weave welds
- Three modes of automatic seam tracking (vertical, horizontal and both)
- Limit switch stops the arc and travels the tractor to the initial position
- Hand-held ergonomic control pendant (3 m cable included) with magnetic adhesion provides firm grip on ferromagnetic materials
- Multifunctional LED display with numeric representations for each motion parameter makes presetting and repeating of the optimum welding or cutting procedure simple and without guess work
- Intuitive software with user-friendly interface
- Automatic arc on/off initiates welding and travel simultaneously
- Rack and pinion drive
- Convenient external 230 V, 115 V or 42 V power supply
- Closed-loop position control system based on electric motor with encoder – ensures increased accuracy of speed and positioning
- Consistent heat input reduces distortion
- · Reduces wasted filler metal eliminates over welding
- Quick-clamping torch holder mechanism for different types of torches with diameters of 16-22 mm (0.63-0.87"); up to 35 mm (1.38") option
- Precise torch adjustment
- Improves working environment removes operator from heat and fumes







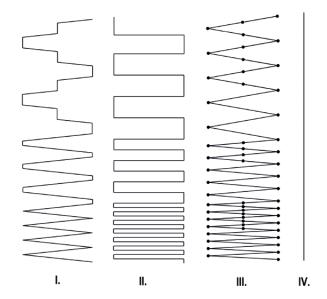




- 1. Cable anchor
- 2. Carrying handle
- 3. Torch rod holder
- 4. 300 mm (12") rod
- 5. 300 mm (12") rack with 180 mm (7") adjustment range
- 6. Rackholder
- 7. Clamping block with levers
- 8. Short rod torch holder with fits-all clamp

RAIL BULL 2 Technical specification		
Voltage		1~230 V, 50-60 Hz 1~115 V, 50-60 Hz 1~ 42 V, 50-60 Hz
Power		120 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 / 3F (contact your dealer) PG / 3G
Fixing on pipes and round workpieces	Ring tracks	from 200 mm (8") OD up to 3 m (10ft) OD
	Hi-flex tracks	Minimum curvature radius of 750 mm (30")
	Custom rolled tracks	from 3 m (10 ft) 0D up to 10 m (32 ft) 0D
	Semi-flexible track	Minimum curvature radius of 5 m (16 ft)
Torch type		MIG/MAG, Plasma, Oxy-fuel
Torch diameter		16-22 mm (0.63-0.87") up to 35 mm (1.38") option
Horizontal pulling force		400 N
Vertical pulling force		300 N
Horizontal speed		0-300 cm/min (0-120 in/min)
Vertical speed		0-300 cm/min (0-120 in/min)
Oscillation type		Linear
Weld path		Straight, triangle, trapezoid, square
Oscillation width		0.2-11.8 cm (0.1-4.5")
Oscillation speed		10-300 cm/min (5-120 in/min)
Oscillation dwell time at center and on ends		0-5 s
Weight		10 kg (22 lbs)





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. Square The tractor travels only during dwell and stops during oscillator cross travel.

Only dwell time determines the weld path, and weave speed has no influence.

III. Triangle The tractor travels only during weaving.

Both the tractor and oscillation stop during dwell mode.

IV. Straight The tractor travels continuously while oscillation is switched-off.



Standard accessories:



5 m (17 ft) power cable PWD-0523-10-03-00-0



Remote control pendant PNL-0523-03-00-00-0



3 m (10 ft) remote control cable PWD-0523-10-01-00-0



6.5 m (21 ft) arc ignition cable KBL-0466-17-00-00-0



300 mm (12") rod WSP-0523-16-00-00-0



Rackholder ZSP-0475-62-00-00-0



300 mm (12") rack RAM-0523-17-00-00-0



Cable anchor UCW-0523-05-01-00-0



Clamping block with levers KST-0525-11-00-00-0



Short rod torch holder with fits-all clamp UCW-0476-20-00-00-0 $\,$



Contact block ZDR-0523-76-00-00-0

Optional equipment:



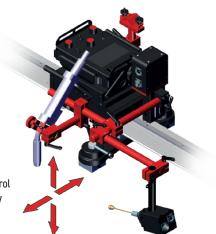
Power supply (3 voltage versions to choose from) 1 ~ 230 V, 50-60 Hz, ZSL-0523-09-00-00-0 1 ~ 115 V, 50-60 Hz, ZSL-0523-09-00-01-0 1 ~ 42 V, 50-60 Hz, ZSL-0523-97-00-02-0

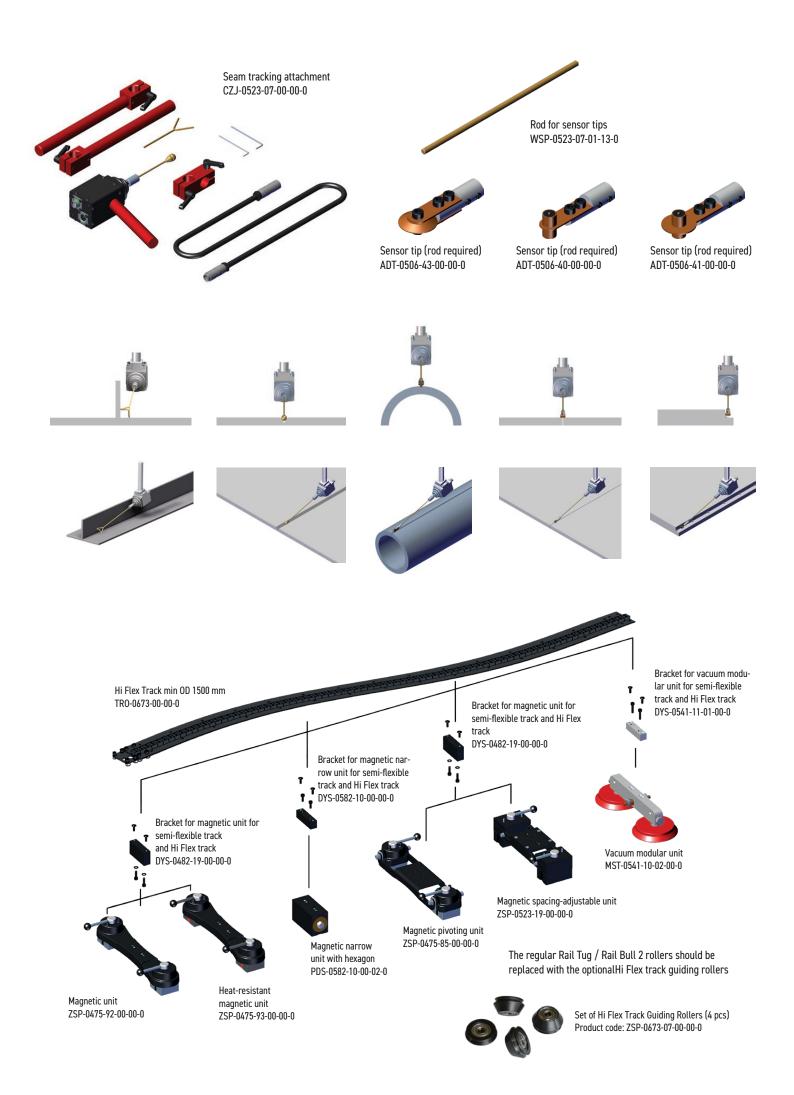


Configuration with seam tracking horizontally and vertically requires an optional seem tracking attachment and a motorized vertical slide



Active torch position control vertically and horizontally





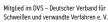
Available on request, diameter can be custom configured within the range Ring tracks from 200 mm OD up to 3000 mm OD (from 8" to 10 ft). Ring tracks can be equipped with various supports depending on the customer's needs. Bracket for ring track supports to expand pipe diameter range by 50 mm downwards Support with bolts Support with magnets Support with plastic feet DYS-0523-14-14-00-0 WSP-0523-14-02-00-0 WSP-0523-14-12-00-0 WSP-0523-14-11-00-0 Rigid track length 2 m (6.5 ft) PRW-0482-47-00-00-0 Bracket for magnetic unit for rigid track DYS-0482-21-00-00-0 Vacuum modular unit MST-0541-10-02-00-0 Magnetic narrow unit with hexagon PDS-0582-10-00-02-0 Magnetic spacingadjustable unit Magnetic pivoting unit ZSP-0523-19-00-00-0 ZSP-0475-85-00-00-0 Heat-resistant magnetic unit Lightweight ZSP-0475-93-00-00-0 Magnetic unit Magnetic Unit ZSP-0475-92-00-00-0 MST-0677-00-00-00-0 Semi-flexible track length 2 m (6.5 ft) Minimum 5 m (16 ft) curvature radius required PRW-0482-15-05-00-0 Bracket for vacuum Semi-flexible tracks can be custom rolled modular unit for semipermanently within the radius range from flexible track 1.5 m up to 5 m (5 ft up to 16 ft) and Hi Flex track Bracket for magnetic unit for semi-flexible DYS-0541-11-01-00-0 track and Hi Flex track DYS-0482-19-00-00-0 Bracket for magnetic Aluminum track narrow unit for semisupport for semiflexible track flexible track and Hi Flex track WSP-0541-11-02-00-0 DYS-0582-10-00-00-0 Bracket for magnetic unit for Vacuum modular unit semi-flexible track MST-0541-10-02-00-0 and Hi Flex track DYS-0482-19-00-00-0 Magnetic spacingadjustable unit ZSP-0523-19-00-00-0 Magnetic pivoting unit ZSP-0475-85-00-00-0 Steel track suport for semi-flexible track Magnetic narrow WSP-0523-12-01-00-1 unit with hexagon PDS-0582-10-00-02-0 Heat-resistant magnetic unit Magnetic unit Lightweight ZSP-0475-93-00-00-0 ZSP-0475-92-00-00-0 Magnetic Unit MST-0677-00-00-00-0

- Tractor
- Power supply (optional)
- 5 m (17 ft) power cable
- · Remote control pendant
- 3 m (10 ft) remote control cable
- 6.5 m (21 ft) arc ignition cable
- 300 mm (12") rod
- 300 mm (12") rack
- Rackholder
- Clamping block with levers
- Short rod torch holder with fits-all clamp
- Cable anchor
- Contact block
- 6 mm hex wrench
- Operator's Manual

Applications:

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













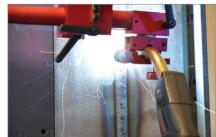












More information available at www.promotech.eu

