PROMOTECH®

smart tools for heavy tasks



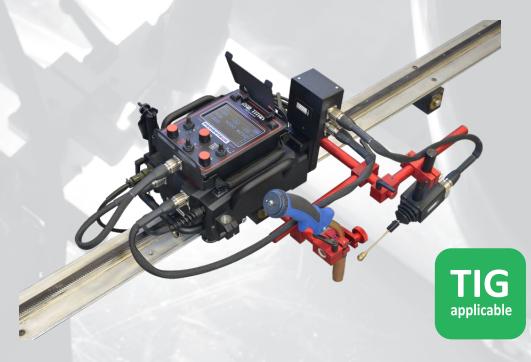
RAIL TITAN

MODULAR TIG-MIG-MAG WELDING AND CUTTING RAIL TRACTOR

Rail Titan is fully modular mechanized tractor that can be custom configured for TIG-MIG-MAG welding, oxy-fuel or plasma cutting and gouging applications on flat or curved plate, tube and pipe.

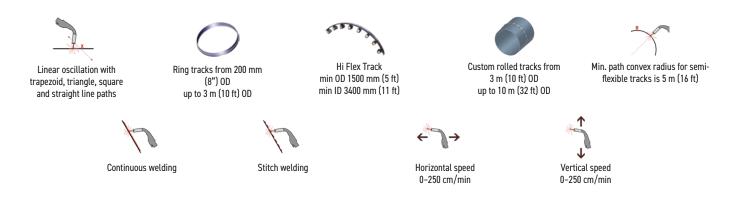
Linear torch oscillator produces straight, triangle, trapezoid and square weld paths.

Rail Titan can travel on hi-flex, semi-flexible, rigid or ring tracks that can be clamped to ferrous materials with magnetic units and to non-ferrous materials by means of vacuum track system incl. vacuum pump and vacuum units.



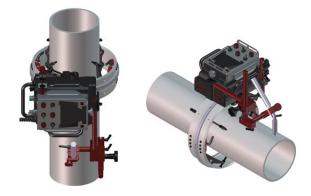
Primary features and benefits:

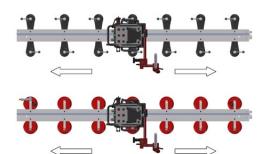
- Suitable for TIG welding (HF resistant)
- Robust design with die-cast aluminum housing
- Ergonomic remote control pendant with simple and easy to find control knobs makes adjustments possible without lifting of the operators welding hood
- Programmable path of stitch welds
- Suitable for variety of circumferential and irregular surface applications down to min. radius of 100 mm (4")
 - \square 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
- Active compensation of torch position vertically and horizontally also with oscillator in use by means of modular automatic seam tracking system
- 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 Titan produces consistent high quality welds and cuts in a fraction of the time required by manual operations
- Convenient Power Supply 115-230 V

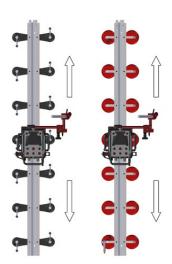


Rail Titan can work in all welding positions on both ferromagnetic and non-ferromagnetic materials by using rack and pinion drive and various tracks equipped with magnetic or vacuum units.











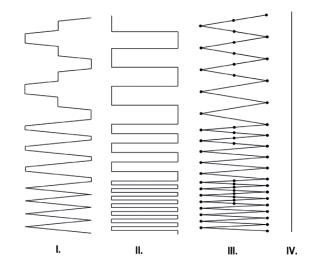






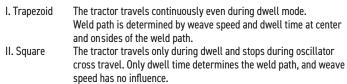


Weld paths:





F1, F2, F3 - Rotary parameter/function setting knobs



III. Triangle The tractor travels only during weaving. Both the tractor and oscillation stop during dwell mode. The tractor travels continuously while oscillation is switched-off. IV. Straight











Standard accessories:





Rackholder

ZSP-0475-62-00-00-0



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



Remote control pendant



5 m (16.5 ft) remote control cable 3 m (10 ft) remote control cable 0.5 m (1.5 ft) remote control cable



Short rod torch holder with fits-all clamp

UCW-0476-20-00-00-0



PWD-0466-18-00-00-0 (230 V CEE) PWD-0466-16-00-00-0 (115 V USA) PWD-0466-23-00-00-0 (115 V UK)



WSP-0523-16-00-00-0



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



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



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

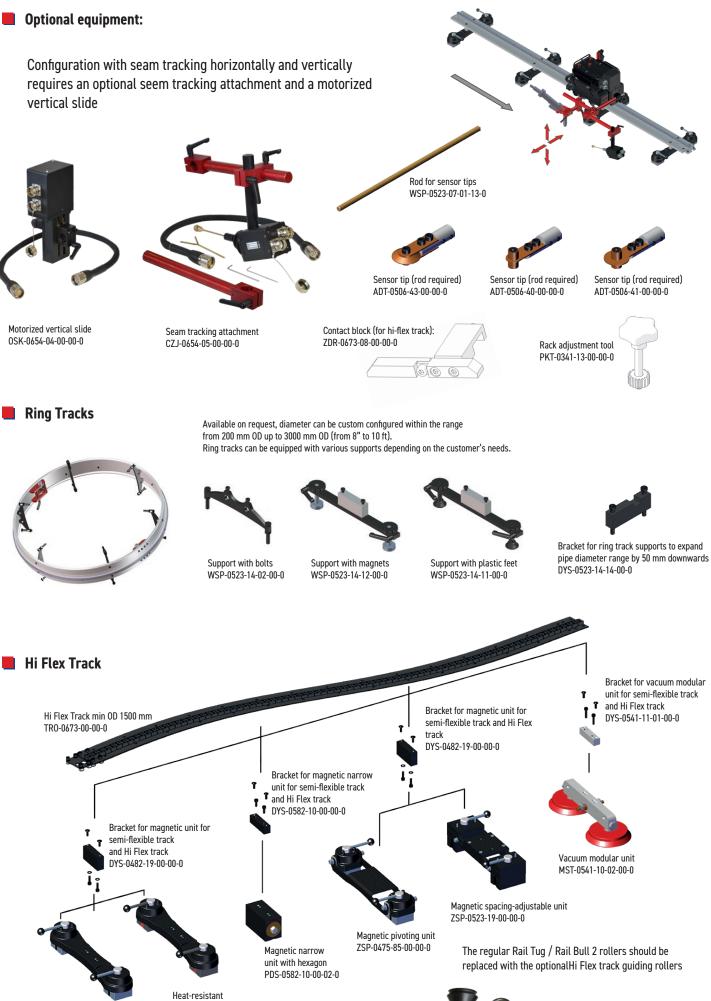


Contact block ZDR-0523-76-00-00-0



300 mm (12") rod



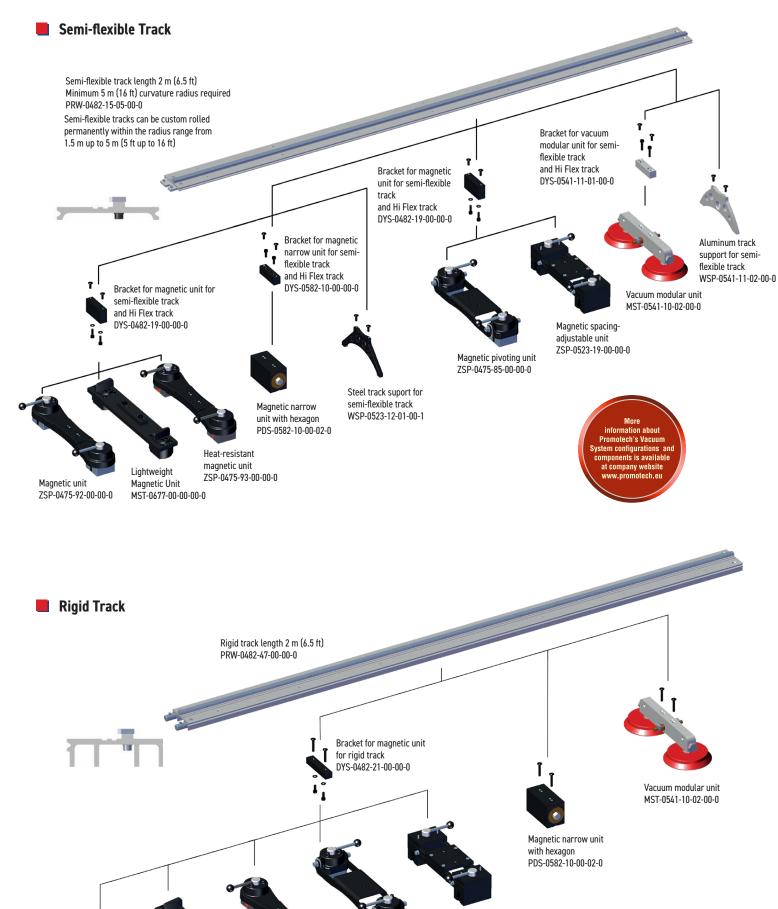


Magnetic unit ZSP-0475-92-00-00-0 magnetic unit

ZSP-0475-93-00-00-0

Set Pro

Set of Hi Flex Track Guiding Rollers (4 pcs) Product code: ZSP-0673-07-00-00-0



Magnetic spacing-adjustable unit ZSP-0523-19-00-00-0

Magnetic pivoting unit ZSP-0475-85-00-00-0

Heat-resistant magnetic unit ZSP-0475-93-00-00-0

Lightweight Magnetic Unit

MST-0677-00-00-00-0

Magnetic unit ZSP-0475-92-00-00-0

RAIL TITAN Technical specification		
Voltage		1~ 115-230 V, 50-60 Hz
Power		60 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
Fixing on pipes and round workpieces	Ring tracks (OD)	200 mm (8") – 3 m (10 ft)
	Hi-flex tracks (OD)	Minimum 1.5 m (5 ft)
	Hi-flex tracks (ID)	Minimum 3.4 m (11 ft)
	Custom rolled tracks (OD) Semi-flex tracks (OD)	3–10 m (10–32 ft) (contact your dealer) Minimum 10 m (32 ft)
Torch type		MIG/MAG, TIG, oxy-fuel, plasma
MIG/MAG torch diameter		16-22 mm (0.63-0.87")
Minimum workpiece thickness for magnetic clamping		5 mm (0.2")
Horizontal pulling force		400 N
Vertical pulling force		300 N
Horizontal speed		0-250 cm/min (0-98 in/min)
Vertical speed		0-250 cm/min (0-98 in/min)
Oscillation type		Linear
Weld path		Straight, triangle, trapezoid, square
Oscillation width		0.1-11.8 cm (0.04-4.5")
Oscillation speed		10-200 cm/min (5-78 in/min)
Oscillation dwell time at center and on ends		0-5 s
Maximum oscillator pulling force		100 N
Weight		10 kg (22 lbs)
Product code		WOZ-0654-10-20-00-0

Standard shipping set:

- Rail Titan tractor
- plastic box
- 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 with 180 mm (7") adjustment
- rack holder
- clamping block with levers
- short rod torch holder with fits-all clamp
- cable anchor
- contact block
- 6 mm hex wrench
- Operator's Manual

You Tube

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









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

More information available at <u>www.promotech.eu</u>



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