

## RAIL TUG | TRACK WELDING AND CUTTING TRACTOR

The Rail Tug is a digitally controlled tractor designed for the mechanization of welding and thermal cutting processes. Featuring a rack and pinion drive system with electronic speed control, Rail Tug creates weld bead geometry which is exact to your specifications, reducing costly over welding and decreasing filler metal usage.

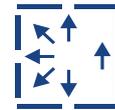
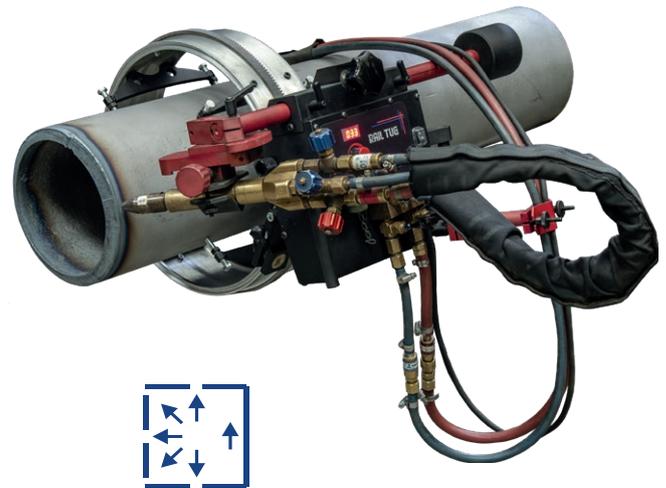
It can be used with semi-flexible tracks for plate and tank work with a minimum radius of 5 m (16 ft) or adapted to bent ring rail for pipe and tube applications.

Hi Flex tracks are suitable for variety of circumferential and irregular surface applications down to minimum radius of 750 mm (30")

Standard ring tracks are available for tube diameters from 200 mm (8") up to 3000 mm (10 ft).

Using a vacuum system allows the tracks to be clamped to non-ferrous surfaces (stainless steel, aluminum etc.)

The Rail Tug economically meets a broad array of welding and cutting applications on flat or curved plate, tube and pipe.



### Applications:

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



Continuous welding



Horizontal speed  
10-200 cm/min



Vertical speed  
10-200 cm/min



Ring tracks from 200 mm  
(8") OD up to 3 m (10 ft) OD

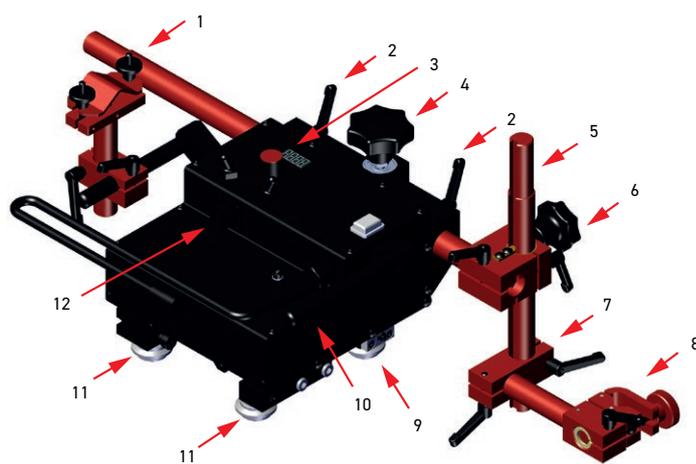
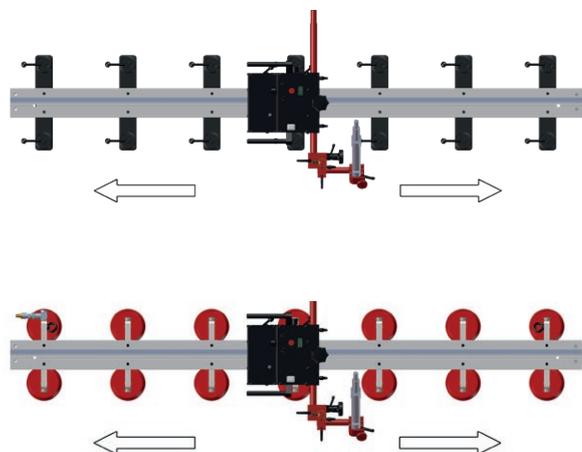
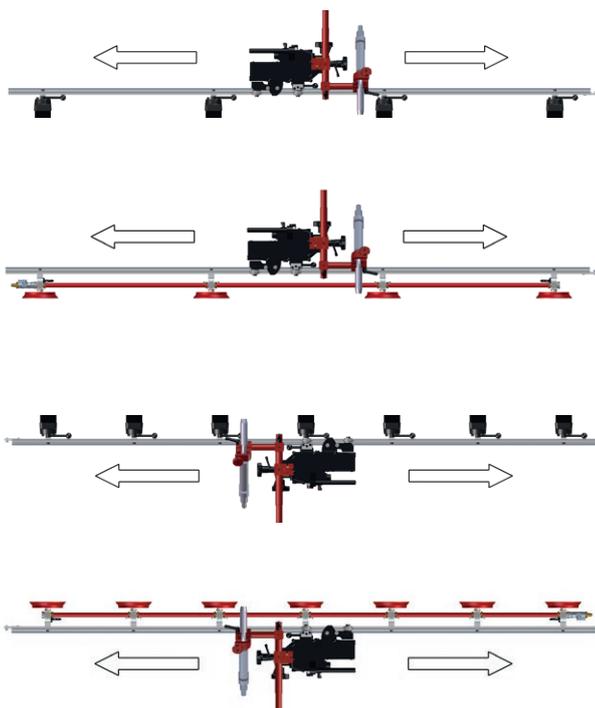
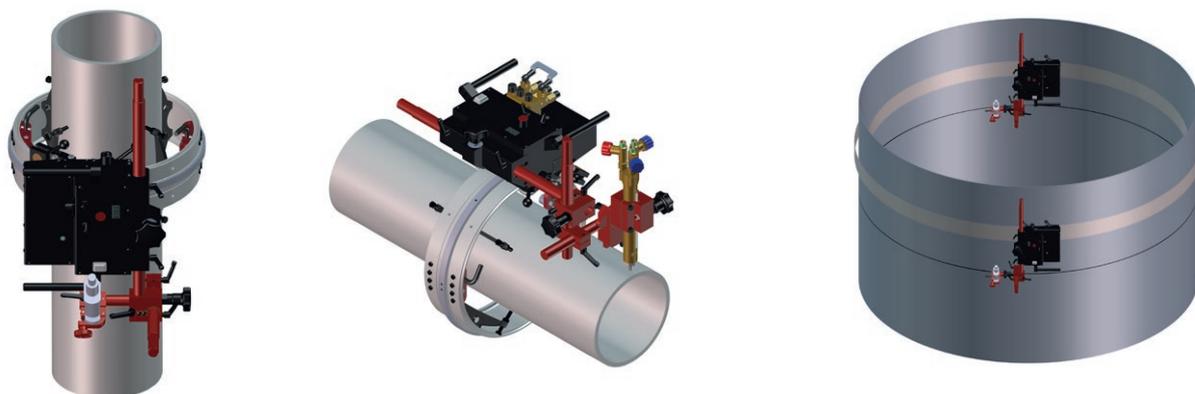


Hi Flex Track  
min OD 1500 mm (59")



Min. path convex radius for semi-flexible tracks is 5 m (16 ft)

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



- |  |   |
|--|---|
| 1. 540 mm (21") rack                             | 7. Clamping block with levers                 |
| 2. Rack Locking Levers                           | 8. Short rod torch holder with fits-all clamp |
| 3. Control panel                                 | 9. Guiding Roller                             |
| 4. Rack adjustment knob                          | 10. Carrying handle                           |
| 5. 300 mm (12") rack with 180 mm (7") adjustment | 11. Adjustable Roller                         |
| 6. Rack holder                                   | 12. Arc ignition socket                       |

## ■ Primary features and benefits

- Compact, lightweight design
- Closed-loop speed control system based on electric motor with encoder – ensures increased accuracy of speed
- Rack and pinion drive
- Consistent heat input reduces distortion
- Reduces wasted filler metal – eliminates over welding
- Digital LED display for presetting of travel speed
- Automatic arc on/off initiates welding and travel simultaneously
- Oxy-fuel and plasma cutting possible with optional accessories
  - 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
  - Semi-flexible tracks can be bended to minimum radius of 5 m (16 ft) without permanent deformation
- Suitable for variety of circumferential and irregular surface applications down to minimum radius of 100 mm (4")
- 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 with screw drive cross slide
- Convenient external 85-250 V power supply
- Improves working environment – removes operator from heat and fumes



## ■ Standard accessories:



Power cord 3 m (9,7 ft)  
 PWD-0466-18-00-00-0 (230 V CEE)  
 PWD-0466-16-00-00-0 (115 V USA)  
 PWD-0466-28-00-00-0 (115 V UK)



Start-Stop arc ignition cable 6.5 m  
 KBL-0466-17-00-00-0



540 mm long rod with 449 mm geared rack  
 RAM-0753-07-00-00-0



Cable anchor for RAIL TUG  
 UCW-0523-05-01-00-0



Sliding clamping block type 1  
 ZSP-0475-62-00-00-0



300 mm long rod  
 with 182 mm geared rack  
 RAM-0523-17-00-00-0

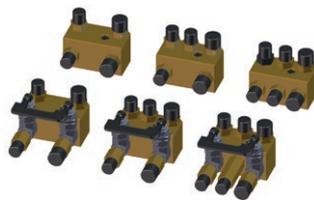
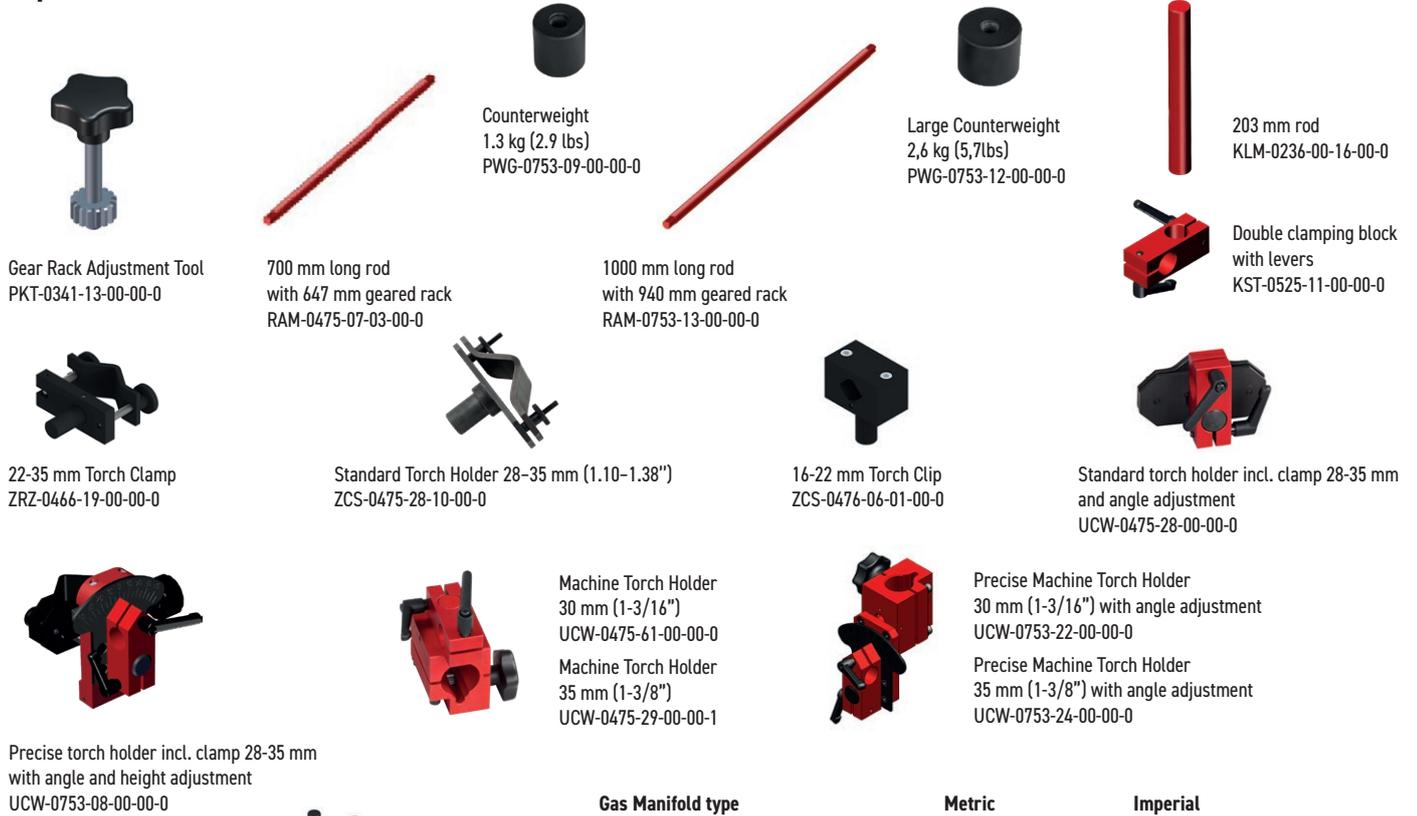


Double clamping block  
 with levers  
 KST-0525-11-00-00-0



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

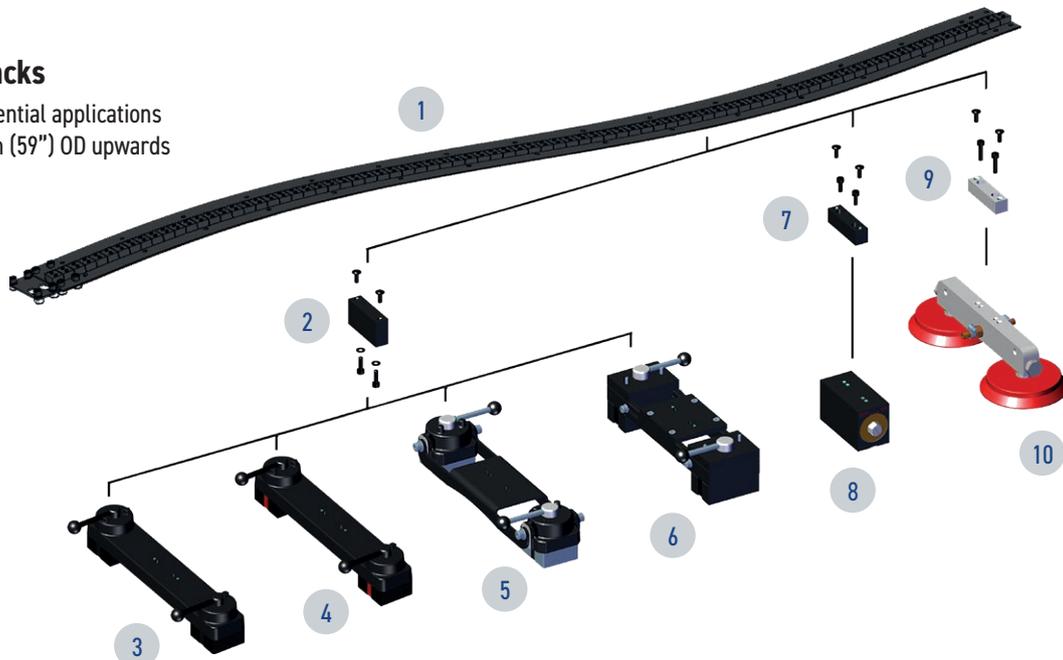
## Optional accessories:



Gas Manifold type	Metric	Imperial
Manifold 2x2	RZD-0475-64-00-00-0	RZD-0475-68-00-00-0
Manifold 2x3	RZD-0475-63-00-00-0	RZD-0475-67-00-00-0
Manifold 3/3	RZD-0475-74-00-00-0	RZD-0475-73-00-00-0
Manifold 2x2 with cut-off valve	RZD-0475-65-00-00-0	RZD-0475-70-00-00-0
Manifold 2/3 with cut-off valve	RZD-0475-66-00-00-0	RZD-0475-69-00-00-0
Manifold 3/3 with cut-off valve	RZD-0475-72-00-00-0	RZD-0475-71-00-00-0

## Hi-Flex tracks

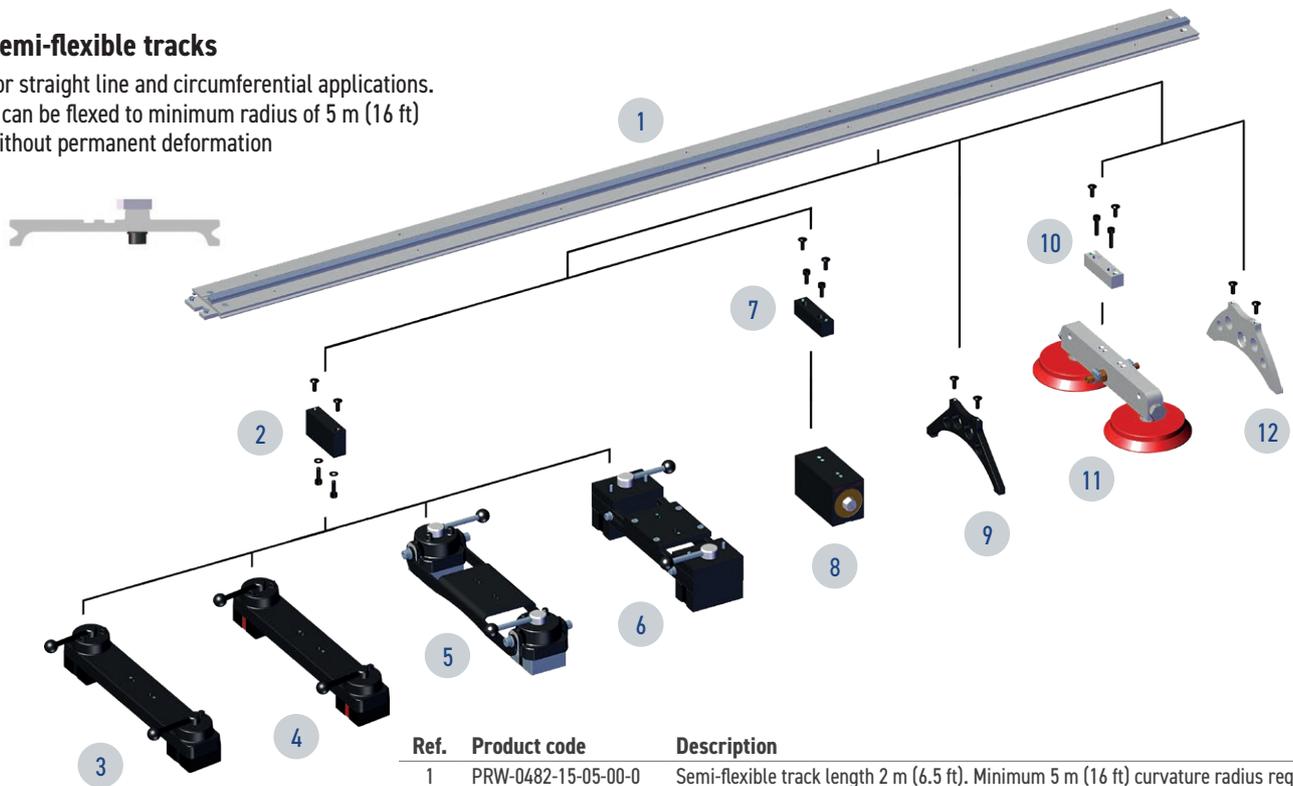
For circumferential applications from 1500 mm (59") OD upwards



Ref.	Product code	Description
1	TRO-0673-00-00-00-0	Hi-Flex Track min OD 1500 mm
2	DYS-0482-19-00-00-0	Bracket for magnetic unit for semi-flexible track and Hi-Flex track
3	ZSP-0475-92-00-00-0	Magnetic unit
4	ZSP-0475-93-00-00-0	Heat-resistant magnetic unit
5	ZSP-0475-85-00-00-0	Pivoting magnetic unit
6	ZSP-0523-19-00-00-0	Spacing-adjustable magnetic unit
7	DYS-0582-10-00-00-0	Bracket for magnetic narrow unit for semi-flexible track and Hi-Flex track
8	PDS-0582-10-00-02-0	Narrow magnetic unit with hexagon
9	DYS-0541-11-01-00-0	Bracket for vacuum modular unit for semi-flexible track and Hi-Flex track
10	MST-0541-10-02-00-0	Vacuum modular unit
11	ZSP-0673-07-00-00-0	Set of Hi Flex Track Guiding Rollers (4 pcs) for RAIL TUG and RAIL TITAN 2

## Semi-flexible tracks

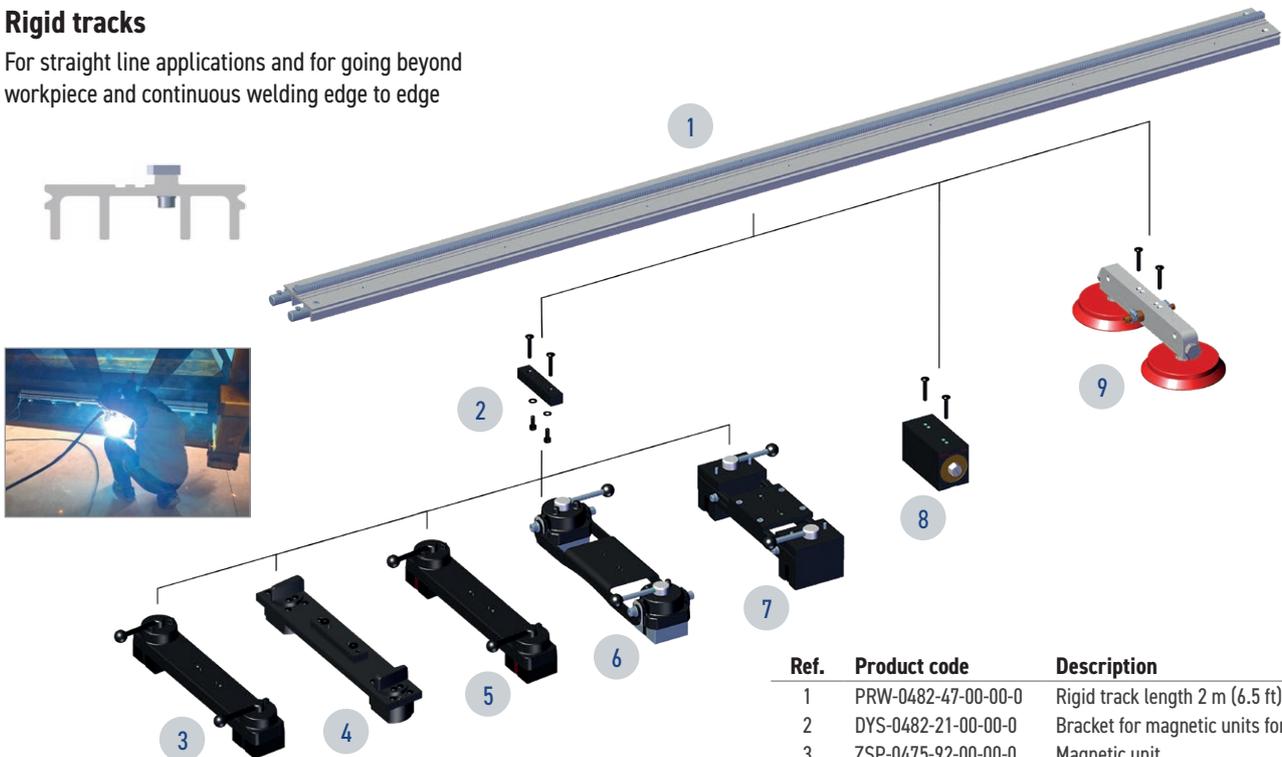
For straight line and circumferential applications.  
It can be flexed to minimum radius of 5 m (16 ft)  
without permanent deformation



Ref.	Product code	Description
1	PRW-0482-15-05-00-0	Semi-flexible track length 2 m (6.5 ft). Minimum 5 m (16 ft) curvature radius required
2	DYS-0482-19-00-00-0	Bracket for magnetic unit for semi-flexible track and Hi Flex track
3	ZSP-0475-92-00-00-0	Magnetic unit
4	ZSP-0475-93-00-00-0	Heat-resistant magnetic unit
5	ZSP-0475-85-00-00-0	Pivoting magnetic unit
6	ZSP-0523-19-00-00-0	Spacing-adjustable magnetic unit
7	DYS-0582-10-00-00-0	Bracket for magnetic narrow unit for semi-flexible track and Hi Flex track
8	PDS-0582-10-00-02-0	Narrow magnetic unit with hexagon
9	WSP-0523-12-01-00-1	Steel support for semi-flexible track
10	DYS-0541-11-01-00-0	Bracket for vacuum modular unit for semi-flexible track and Hi Flex track
11	MST-0541-10-02-00-0	Vacuum modular unit
12	WSP-0541-11-02-00-0	Aluminum track support for semi-flexible track

## Rigid tracks

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



Ref.	Product code	Description
1	PRW-0482-47-00-00-0	Rigid track length 2 m (6.5 ft)
2	DYS-0482-21-00-00-0	Bracket for magnetic units for rigid track
3	ZSP-0475-92-00-00-0	Magnetic unit
4	MST-0677-00-00-00-0	Lightweight Magnetic Unit
5	ZSP-0475-93-00-00-0	Heat-resistant magnetic unit
6	ZSP-0475-85-00-00-0	Pivoting magnetic unit
7	ZSP-0523-19-00-00-0	Spacing-adjustable magnetic unit
8	PDS-0582-10-00-02-0	Narrow magnetic unit with hexagon
9	MST-0541-10-02-00-0	Vacuum modular unit

## Ring tracks

For circumferential applications 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.



Ring track support  
with bolts  
WSP-0654-11-00-00-0



Ring track support  
with magnets  
WSP-0654-13-00-00-0



Ring track support  
with plastic feet  
WSP-0654-12-00-00-0



Bracket for ring track supports to expand  
pipe diameter range by 50 mm downwards  
DYS-0523-14-14-00-0

RAIL TUG Technical specification	
Voltage	1~ 115-230 V, 50-60 Hz
Power	66 W
Welding position (according to EN ISO 6947 and AWS/ASME)	PA / 1F / 1G PB / 2F PC / 2G PD / 4F PE / 4G PG / 3F (contact your dealer)
Fixing on pipes and round workpieces	Ring tracks Hi Flex tracks Semi-flexible track from 200 mm (8") OD up to 3 m (10 ft) OD Minimum curvature radius of 750 mm (30") Minimum curvature radius of 5 m (16 ft)
Torch type	MIG/MAG, SAW, Plasma, Oxy-fuel
Torch diameter	MIG/MAG SAW, Plasma Oxy-fuel 16-22 mm (0.63-0.87") 28-35 mm (1.10-1.38") up to 35 mm (1.38") option
Horizontal pulling force	300 N
Vertical pulling force	200 N
Horizontal speed	10-200 cm/min (4-80 in/min)
Vertical speed	10-200 cm/min (4-80 in/min)
Weight	10 kg (22 lbs)
Product Code (115-230 V, 50-60 Hz, plug EU)	WOZ-0570-10-20-00-0

## Standard shipping set:

- Rail Tug tractor
- Cardboard box
- 300 mm (12") rack with 180 mm (7") adjustment
- Rack holder
- Clamping block with levers
- Short rod torch holder with clamp
- Cable anchor
- 6 mm hex wrench
- 6.5 m (21 ft) arc ignition cable
- 3 m (10 ft) power cord
- Operator's Manual



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



More information available at [www.promotech.eu](http://www.promotech.eu)



PROMOTECH Sp. z o.o.  
Elewatorska 23/1  
15-620 Białystok, POLAND  
Phone +48 85 678 34 05  
marketing@promotech.eu



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