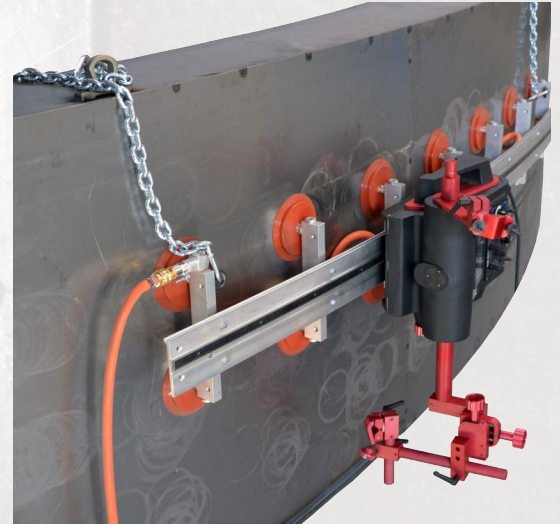


## VACUUM TRACK FIXING SYSTEM

Promotech's vacuum fixing system provides firm grip of track segments on both ferrous and non-ferrous materials. Light-weight and modular design enables easy adjustment and fitting of the system to specific needs depending on welding or cutting applications and working positions (e.g. flat, horizontal or vertical).



### Applications

- welding and cutting of non-ferrous materials (aluminum or stainless steel constructions)
- welding and cutting of thin or coated ferrous materials when magnetic adhesion is possibly insufficient

### System elements and accessories



AGR-541-00-00-00-0

#### Portable vacuum pump with safety reservoir

- generates vacuum and supports up to 21 vacuum units
- available for 115V or 230V



#### Semi-flexible or rigid track segments with vacuum units

- compatible with Rail Bull track segments



PWD-0541-03-00-00-0

#### Pump connection cable

- connects pump to the track segments (10-meter long)



#### Modular vacuum units

- each unit consists of 2 vacuum pads and manifold block with 4 slots
- possible configurations include entry unit, middle/extension unit or end unit

## Track segment elements



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



DYS-541-02-01-00-0  
**Bracket for Semi Flexible Track**  
(for vacuum units)



PRW-0523-13-01-00-0  
**Rigid Track Up-grade Set**

## System elements and accessories



MST-0541-01-01-40-0  
**Modular vacuum unit**



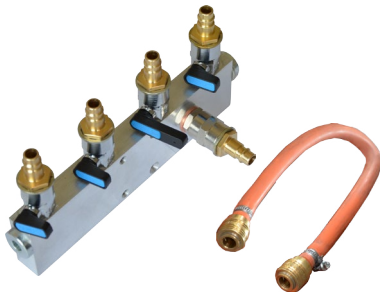
ZWR-0541-01-01-30-0  
**Shut-off valve set**  
(for entry vacuum unit)



KRK-000011  
**Threaded plug**  
(for end vacuum unit)



MST-0541-01-01-12-0  
**Vacuum pad**



ROZ-0541-04-00-00-0  
**4-way vacuum manifold with connection cable**  
(enables parallel connection of track segments; particular segment(s) can be displaced separately with no vacuum loss in the others)



WAZ-000031  
**Silicon cable (2m)**  
(for vacuum unit connections)



PWD-0541-01-03-00-0  
**Track segment connection cable**  
(for serial connection)



SRB-000365  
**Safety eye bolt**



OPS-000005  
**Cable tie**

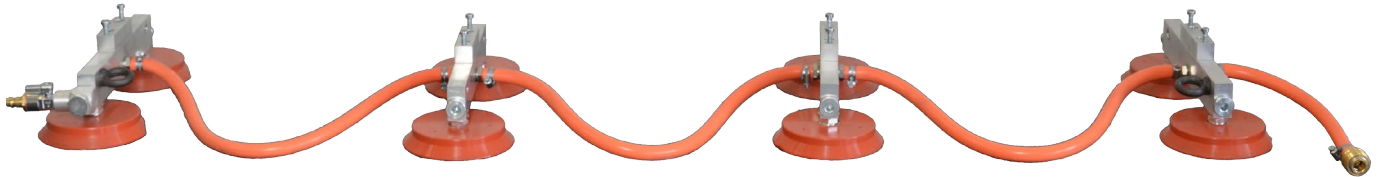


SZB-000018  
**Quick connector**



KRC-000013  
**Connector with external thread**

## ■ System configuration for serial connection

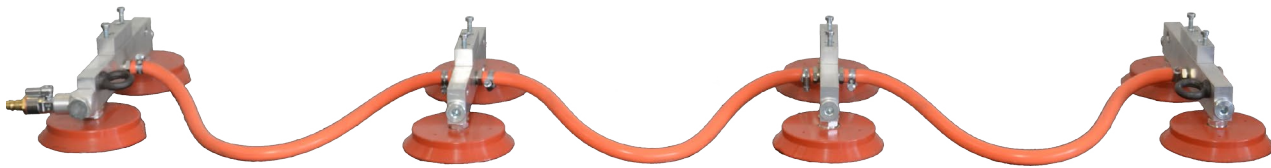


**Entry vacuum unit**  
(1 unit per track segment)

**Middle vacuum units**  
(up to 5 units per track segment)

**Extension vacuum unit**  
(for serial connection)

## ■ System configuration for single track or parallel connection



**Entry vacuum unit**  
(1 unit per track segment)

**Middle vacuum units**  
(up to 5 units per track segment)

**End vacuum unit**  
(for single track segment  
or parallel connection)

## ■ Technical specifications

Promotech's vacuum track fixing system consists of portable vacuum pump and semi-flexible or rigid track segments with up to 7 vacuum units per segment.

Semi-flexible track can be fixed on flat or curved surfaces with a radius of minimum 5 meters.

Single vacuum unit provides suction power of 1400N (vacuum -0,7bar).

The permitted load is up to 30 kg (welding/cutting carriage with accessories).

Temperature of material on which vacuum pads are used cannot exceed +320 °C.

The minimum distance between vacuum pads and heat source has to be more than 100 mm.

Vacuum track fixing system can be used in flat, horizontal and vertical working positions.

Safety eye bolts are provided to suspend vacuum track segments and protect them against accidental fall.

**Vacuum Track Fixing System parameters**

Track (semi-flexible/rigid)	Rail Bull track segments - 2 m (6,5 ft)
Min curved surface radius	5 m (16 ft)
Suction power (vacuum)	1400N (-0,7bar) per vacuum unit
Working positions	flat, horizontal, vertical

**Portable vacuum pump parameters**

Voltage	115V 50/60Hz or 230V 50/60Hz
Power	0,4 kW
Vacuum	min -0,8 bar
Pump capacity	4 m <sup>3</sup> /h (141 ft <sup>3</sup> /h)
Noise level	max 70 dB
Ambient temperature	0°C (32°F) to +40°C (104°F)
Safety reservoir volume	10 l
Weight	23 kg

All information is subject to change without notice. 1505



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