

Railtrac B42V

A truly unique and flexible multi-purpose system for welding and cutting.



Railtrac B42V is a welding tractor system that can be configured to create the optimal solution for your mechanized welding application. To minimize problems associated with harsh environments, most mechanical parts are constructed in aluminum or stainless steel. Railtrac B42V is designed for horizontal and vertical up/down when applicable.

The system can be easily connected to most ESAB wire feeders with no major modification. Remote adapters have to be mounted in feeders Aristo® Feed 3004/4804 and Warrior™ Feed 304. Railtrac B42V features different torch holders for various applications.

With the optional Orbital kit you can convert the B42V into a pipe welder that can be used for orbital welding of pipes from 20 in. and up, in horizontal and vertical joints, with or without weaving.



Industry

- Ship and Offshore Yards
- Ship/Barge Building
- Pipeline
- Repair and Maintenance
- Heavy Fabrication
- Structural Steel Fabrication
- Tank and Vessel Fabrication
- Windtower

- 42V AC powered from power source or battery driven with standard Makita® 18 V system.
- Possible to program a specific welding length with auto return to start position.
- Stepper motors both for drive and weaving function with extremely high precision. Wide speed range available in a single unit.
- Remote is programmable for weave patterns and travel speed and is capable of controlling voltage and wire feed speed in up to 5 standard programs.
- Unit can be programmed and run directly from the controls on the Railtrac machine if the remote control is lost, damaged or not preferred.

Visit esab.com for more information.

Railtrac B42V

Technical Data	
Supply Voltage	24 – 70 VDC, 20 – 50 VAC, 18 V Battery (optional)
Battery Running Time	3 – 4 h (5Ah)
Battery Power Consumption Max	50 W
Bending Diameter Rail Min	Ø 1600 mm
Height Adjustment Slide	+/- 45 mm
Max Speed	30 mm/s (25 mm/s with battery)
Max Load	10 kg (5 kg with battery)
Max Temperature Magnet / Vacuum	70 / 90°C
Enclosure Class	IP44
Approvals	CE
Safety Class	DIN40050
Dimensions	210 x 360 x 270 mm
Weight	8 kg

Cable Key Diagram						
	Origo Feed 304, 484 (M12)	Origo Feed 304, 484 (M13)	Aristo Feed 3004/4804 (All panels)	Warrior Feed 304	Robust Feed Pulse	Universal Feeder
Control Cable 0457360880	●	●	●	●	●	●
Connection Cable 0457360886		●				
Battery 0457468074						(●)
Remote Adapter Kit 0465451881				●		●
Remote Adapter Kit RA 23 CAN 0459681880			●			
Transformer 230 VAC 0457467880						(●)
Transformer 115 VAC 0457467882						(●)

Ordering Information	
Railtrac B42V Package *	0398146016

* Railtrac comes delivered with a Universal Torch Holder Ø10-22 mm and adjusters as standard.

Options & Accessories	
Battery 18V, 5Ah Li-ion, Makita® *	0457468074
Battery Charger 230 VAC Makita® *	0457468072
Control Cable Miggytrac/Railtrac 5 m	0457360880
Connection Cable Universal (only w. 12-pin)	0457360886
Remote Adapter Kit Miggytrac/Railtrac	0465451881
Remote Adapter Kit RA 23 CAN Miggytrac/Railtrac	0459681880
Quick-extension bracket for flexible rail	0398146120

* Makita® Battery 5Ah Li-ion BL1850 (196673-6) and Battery Changer DC18RC (195585-0) can be bought locally in hardware store.

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Options & Accessories	
Transformer kit 230 VAC	0457467880
Transformer kit 115 VAC	0457467882
Floating Head for Torch	0398145211
Turning Bracket B42V	0398145203
Tilt Bracket Railtrac B42V	0398145202
Torch Holder Universal Ø15-30 mm	0398145106
Torch Holder for PSF	0398145101
Flexible Alu Rail, 2.5 m (8 ft)	0398146115
Flexible Alu Rail, 5 m (16 ft)	0398146119
Flexible Alu Rail, 2.5 m (8 ft), 8 magnets	0398146112
Flexible Alu Rail, 2.5 m (8 ft), 4 vacuum attachments	0398146113
Stiffener Bar, 2.5 m (8 ft)	0398146116
Flip Magnetic Attachment	0398146100
Vacuum Attachment, 90°	0398146104
Vacuum Attachment, 200°	0398146105
Screw Attachment for stiffened rail	0398146114
Railtrac Orbital Kit **	0398146801

** Includes 1 drive wheel module, 1 chain, 2 outer disc drive wheels and 1 tool kit drive wheel.

Orbital Rings	
Orbital Ring 20 in.	0449900720
Orbital Ring 22 in.	0449900722
Orbital Ring 24 in.	0449900724
Orbital Ring 26 in.	0449900726
Orbital Ring 28 in.	0449900728
Orbital Ring 30 in.	0449900730
Orbital Ring 32 in.	0449900732
Orbital Ring 34 in.	0449900734
Orbital Ring 36 in.	0449900736
Orbital Ring 38 in.	0449900738
Orbital Ring 40 in.	0449900740

Each Orbital Ring fits pipe Ø ±1 in.

Orbital Rings	
Orbital Ring 42 in.	0449900742
Orbital Ring 44 in.	0449900744
Orbital Ring 46 in.	0449900746
Orbital Ring 48 in.	0449900748
Orbital Ring 50 in.	0449900750
Orbital Ring 52 in.	0449900752
Orbital Ring 54 in.	0449900754
Orbital Ring 56 in.	0449900756
Orbital Ring 58 in.	0449900758
Orbital Ring 60 in.	0449900760
Orbital Ring 62 in.	0449900762



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