

ESAB Tracfinder Wheel

Modular Welding Tractor



ESAB Tracfinder Wheel

Industry

- Bridge Construction
- Industrial and General Fabrication
- Mobile Equipment
- Ship and Offshore Yards
- Shipbuilding
- Steel Industry
- Transportation
- Structural Steel Fabrication

ESAB Tracfinder Wheel is the most versatile and autonomous welding carriage for all-positional welding and cutting applications. It delivers high-performance, precision welding in a compact, robust package. Designed for maximum flexibility and ease of use, this tractor is the ideal solution for fabrication shops seeking fast setup, reduced downtime, and consistent weld quality without the need for rails.

- **4-Wheel Drive System:** Dual motorization (independent left/right control) ensures optimal traction and stability in all welding positions.
- **Magnetic Base*:** with its 28kg magnetic force it Securely operates in all Welding positions
- **Battery Powered:** Minimum 10 hours of battery life ensures extended operation without interruption.
- **High Welding Speed:** up to 200 cm/min for enhanced productivity.
- **Remote control:** available with an operating range of 20 meters
- **Set up weld programs:** Set up weld speed & length, delays, repetitions, stitch welding, back-step welding & more
- **Motorized slides and pendulum oscillator:** Options for remote controlled linear and pendular axis set up for weaving in all angles
- **Auto-Guided Tracking:** Innovative tracking software adjusts the tractor's trajectory based on torch position, eliminating the need for rails and minimizing setup time.
- **Communication box:** accessory for 2-way communication with Aristo Edge power source

Visit **esab.com** for more information.

*Safety harness should be connected when running > 90-degree position. Added weight to tractor must not surpass 5 kg in these positions.

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Upgradable Modular system:

Different levels of automation

From Basic to Advanced+

Options to expand Features & functionality

Weaving & oscillation units

2 way communication box

- A product that fit the customer needs, budget and the application
- Modular system fit for purpose
- More applications and functionality than standard carriage solution
- Two-way communication between tractors and power source
- Unique Features and functionalities

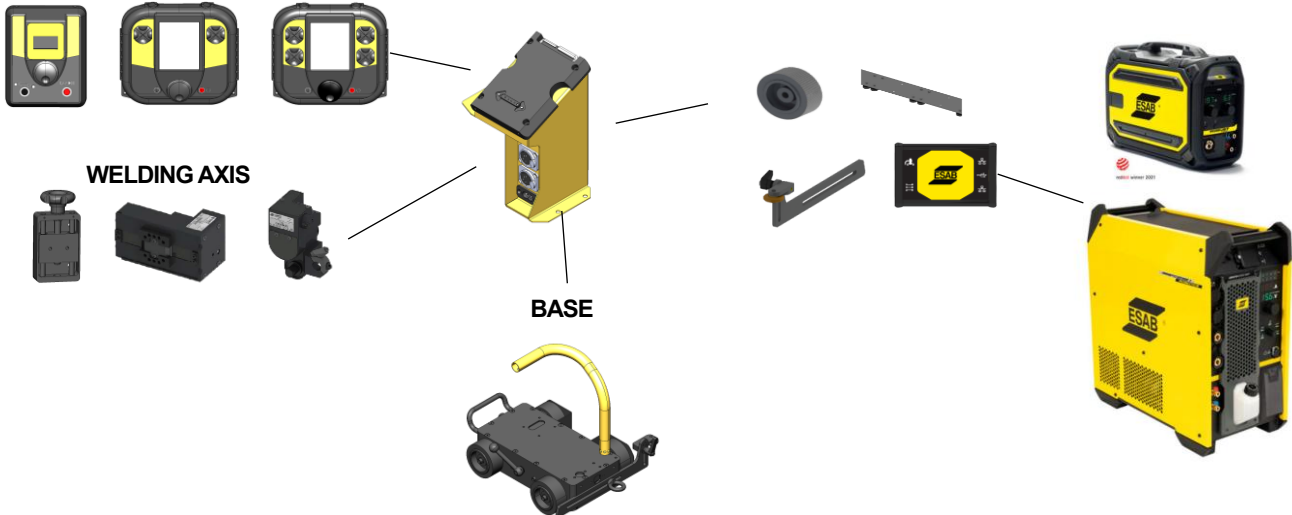


CONTROL PANEL /
REMOTE CONTROL

CENTRAL
CONTROL UNIT

ACCESSORIES

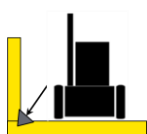
POWER SOURCE
(MODBUS) for 2-way communication



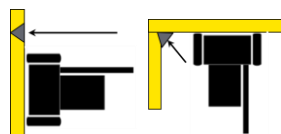
Welding positions:



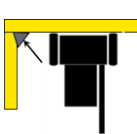
PA-1G



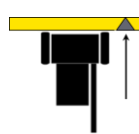
PB-2F



PC-2G



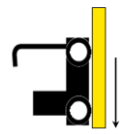
PD-4F



PE-4G



PF-3F



PG-3G



Pipe PA-1G



Pipe PE-4G

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Feature Comparison Chart			
Tracfinder Wheel	Standard	Advanced	Advanced+
Multilingual interface	✓	✓	✓
Units: metric or imperial	✓	✓	✓
Guided error codes	✗	✓	✓
Operation hours meter for maintenance	✓	✓	✓
Program cycles, stitch & back-step welding	✓	✓	✓
Weaving option: 3 patterns, synchronization of carriage base, axis and dwell time	✗	✓	✓
Special weaving: Multi-axis weaving for welding in any angle	✗	✓	✓
Special cycle feature for plasma cutting	✗	✓	✓
Axis position programming for multipass	✗	✓	✓
30 carriage job positions	✗	✓	✓
Transfer welding jobs between units by wireless remote control	✗	✓	✓
4-Wheel Drive for Secure Traction	✓	✓	✓
Dual Motorization (M1 Right / M2 Left)	✓	✓	✓
Welding speed up to 200 cm/min	✓	✓	✓
Motorized Slides (Y + Z)	✗	✓	✓
Magnets in Base (28kg Traction)	✓	✓	✓
Advanced Remote Control (Multi-Axis HMI)	✗	✓	◆
Guided Roller (Fillet/Track Welding)	✓	✓	✓
Limit Switches (End Stop Integrated)	✓	✓	✓
Orientable Handle (Transport & Torch Harness)	✓	✓	✓
Battery operated	✓	✓	✓
10h Battery Autonomy	✓	✓	✓
Tracking Without Rail Software	✗	✓	✓
Advanced Software Features	✗	✓	◆
Communication Box & Modbus Connectivity	✗	✗	✓

◆ = Advanced+ with Enhanced 4 button HMI & software with expanded functionality for 2-way communication and tracking without rail

Specifications			
	Standard	Advanced	Advanced+
Battery (battery not included)	Li-Ion 18V 5Ah	Li-Ion 18V 5Ah	Li-Ion 18V 5Ah
Operating time, Carriage Battery	10 - 20 h	10 - 20 h	10 - 20 h
Operating time, Remote Control Battery	No remote control	8 h	8 h
Minimum Pipe Diameter (Exterior weld)	1200 mm	1200 mm	1200 mm
Stepper motor	2x Brushless DC	2x Brushless DC	2x Brushless DC
Travel speed	1 – 200 cm/min	1 – 200 cm/min	1 – 200 cm/min
Slide adjustment, horizontal	38 mm	65 mm	65 mm
Slide adjustment, vertical	38 mm	65 mm	65 mm
Length, support arms	250 mm	250 mm	250 mm
Standard wheel, 4-wheel drive	75 mm	75 mm	75 mm
Ambient temperature	-5 / +50°C	-5 / +50°C	-5 / +50°C
Magnetic force	28 kg	28 kg	28 kg

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Specifications			
	Standard	Advanced	Advanced+
Dimensions, L x W x H	365 x 225 x 310 mm	365 x 225 x 310 mm	365 x 225 x 310 mm
Weight	9,1 kg	14 kg	14 kg
Protection rating	IP43	IP43	IP43
Weaving patterns	0	3	3
Parameter Control Buttons	0	8	16
2-way Communication (Modbus)	No	No	Yes

Ordering Information	
Tracfinder Wheel Standard	A000101097
Tracfinder Wheel Advanced	A000101098
Tracfinder Wheel Advanced+	A000101217

Accessories	
Complete long 400mm crabbing arm	0464752450
Complete extra long 700mm crabbing arm	0464752451
Complete set of 4 big plastic wheels D100mm	0464752461
Set of knurled aluminum wheels D75mm	0464752591
Complete angular torch holder for MIG-MAG	0464752606
High temperature torch holder (250°C max)	0464752552
Long arm L400mm	0464752555
Extra long arm L750mm	0464752556
Angular torch mount arm (+/- 45°)	0464752560
Big manual slide L100mm	0464752540
Communication box (Modbus)	0464752538



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