

# ESAB Tracfinder Rail

## Modular Welding Tractor



*ESAB Tracfinder Rail*

### Industry

- Ship and Offshore Yards
- Shipbuilding
- Pipeline
- Repair and Maintenance
- Heavy Fabrication
- Structural Steel Fabrication
- Tank and Vessel Fabrication
- Windtower

ESAB Tracfinder Rail is a fully modular and programmable rail-based welding tractor. It delivers high-performance, precision welding in a compact, robust package. The ESAB Tracfinder Rail is designed for horizontal and vertical welding in all positions using high stability rails.

- **Direct Drive Rail System:** Rack & pinion transmission allows high stability & prevents slippage
- **Battery Powered:** Minimum 10 hours of battery life ensures extended operation without interruption.
- **High Welding Speed:** up to 180 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
- **Joint teaching software:** Use points to set up non-standard weld paths
- **Communication box:** accessory for 2-way communication with Aristo Edge power source

Visit [esab.com](http://esab.com) for more information.

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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

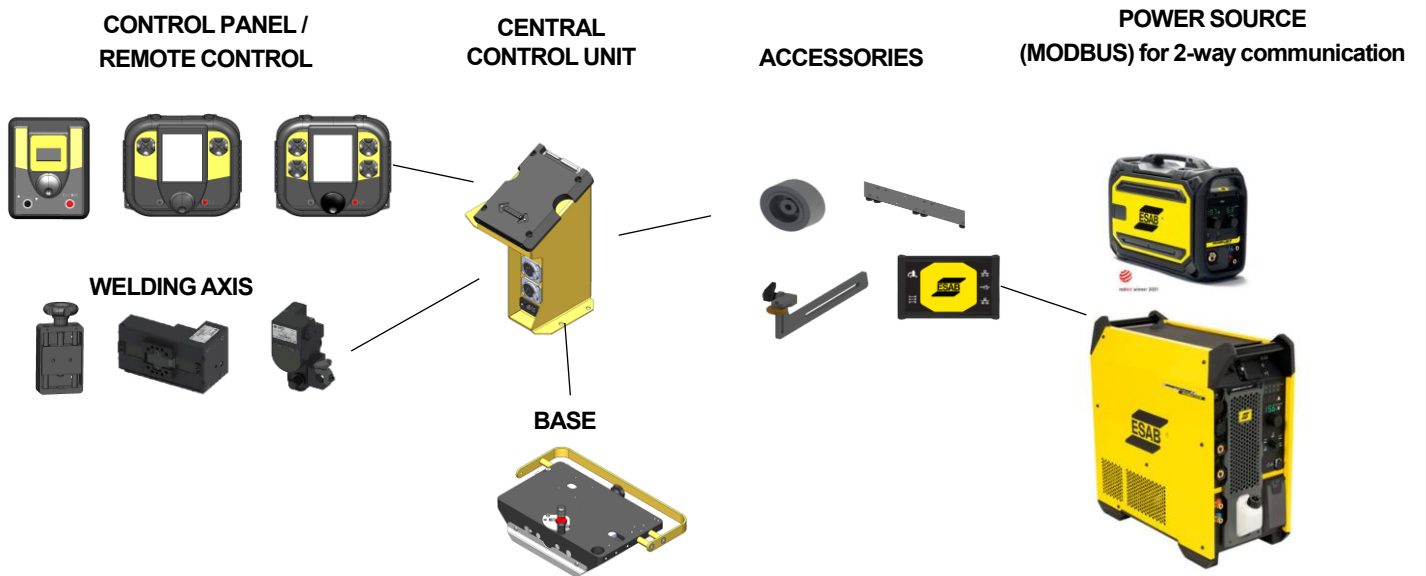
- A product that fit the customer needs, budget and the application
- Modular system fit for purpose
- More applications and functionality than standard carriage solution
- Two-way communication between tractors and power source
- Unique Features and functionalities



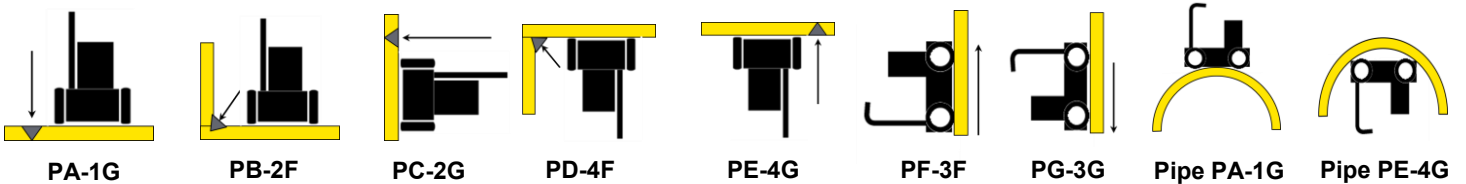
Standard

Advanced

Advanced +



## Welding positions:



# ESAB Tracfinder Rail

Feature Comparison Chart			
Tracfinder Rail	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 carriage jobs between units by wireless remote control	✗	✓	✓
Rack & pinion transmission system for stability & no slippage	✓	✓	✓
Welding speed up to 180 cm/min	✓	✓	✓
Motorized Slides (Y + Z)	✗	✓	✓
Advanced Remote Control (Multi-Axis HMI)	✗	✓	◆
Limit Switches (End Stop Integrated)	✓	✓	✓
Side Handle (Transport & Protection)	✓	✓	✓
Battery operated	✓	✓	✓
10h Battery Autonomy	✓	✓	✓
Joint Teaching 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)	1000 mm	1000 mm	1000 mm
Stepper Motor	Brushless DC	Brushless DC	Brushless DC
Travel speed	1 – 180 cm/min	1 – 180 cm/min	1 – 180 cm/min
Slide adjustment, horizontal	38 mm	65 mm	65 mm
Slide adjustment, vertical	38 mm	65 mm	65 mm
Standard rail	1500 mm	1500 mm	1500 mm
Ambient temperature	-5 / +50°C	-5 / +50°C	-5 / +50°C
Dimensions, L x W x H	345x220x255mm	345x220x255mm	345x220x255mm
Weight	7 kg	12 kg	12 kg
Protection rating	IP43	IP43	IP43
Weaving patterns	0	3	3
Parameter Control Buttons	0	8	16
2-way Power Source Communication (Aristo Edge)	No	No	Yes

# ESAB Tracfinder Rail

## Ordering Information – Product Packages

Tracfinder Rail Standard	A000101099
Tracfinder Rail Advanced	A000101100
Tracfinder Rail Advanced+	A000101218

## Accessories

Standard magnetic flexible track L1500mm	0464752592
Half-Length magnetic flexible track L750mm	0464752593
High temperature (180°C max) magnetic flexible track L1500mm	0464752594
Half-length high temperature (180°C max) magnetic flexible track L750mm	0464752595
Stiffened magnetic track L1500mm	0464752604
Rail end stop	0464752616
Additional magnetic end of flexible track	0464752613
Additional high temperature (180°C max) magnetic end of flexible track	0464752615
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 adjustment arm	0464752560
Big manual slide L100mm	0464752540
Communication box (Modbus)	0464752538



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