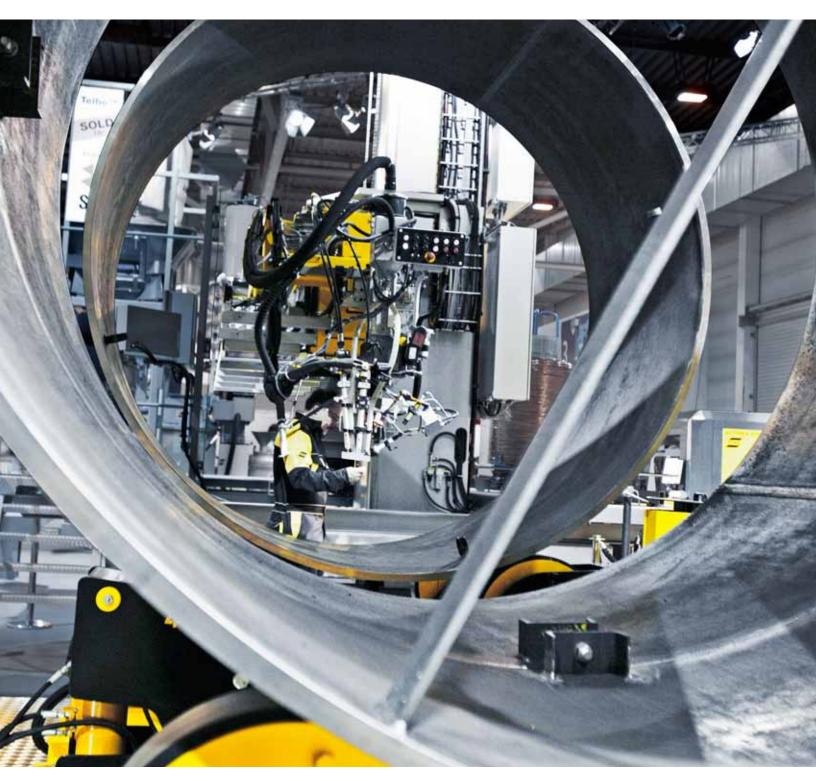


Automation Catalogue



STRENGTH THROUGH COOPERATION

Contents

Mechanized and Orbital TIG	5
Controllers and power sources	15
Welding tractors	23
Welding heads	39
Columns and booms	49
Carriers and gantries	59
Accessory components	63
Handling equipment	75
Special applications	93

Mechanized & Orbital TIG



Aristo® MechTig C2002i

Orbital welding power source

- Mechanized TIG welding increases productivity and reduces the welding costs.
- The Aristo® MechTig C2002i can control two motors; the travelling motor and the wire feed motor.
- Aristo® MechTig C2002i is built on a modular system and have a built-in cooling unit, which gives flexibility when adapting to customer requirements.
- The design of Aristo® C2002i is robust to withstand the wear and tear of many years of daily use in industrial environments.
- User friendly.
- 10" colour monitor.
- · Graphical interface.
- Program library and auto generation of programs.



Ordering information

Aristo® MechTig C2002i	0444 700 880
Sales Literature	XA00131320

Options & Accessories

Trolley	0301 100 880
Remote control MechT 1 CAN	0460 181 880
Cable between MechTig C2002i and MechT 1	CAN:
Length 5 m	0459 554 880
Length 10 m	0459 554 881
Length 15 m	0459 554 882
Length 25 m	0459 554 883
Length 0.25 m	0459 554 884

Technical data	
Mains voltage, V/ph Hz	230/1, 50-60
Fuse, slow, A	16
Mains cable, Ø mm² (in.	3x2.5 (3x0.1)
Permitted load at (Tig) 35% duty cycle, A / V 60% duty cycle, A / V 100% duty cycle, A / V	180 / 17 140 / 16 110 / 14
Setting range, TIG, A	5-200
Open circuit voltage, V	92
Dimensions LxWxH, mm (in.)	470x479x472 (18.5x18.9x18.6)
Weight, kg (lbs.)	30 (66)
Enclosure class	IP 23





Aristo® MechControl 2 and 4

Orbital welding control boxes

- The Aristo® MechControl 2 can control two motors; for travelling and wire feed.
- The Aristo[®] MechControl 4 can control four motors; for travelling, wire feed, Arc Voltage Control (AVC) and weaving.
- The design of Aristo[®] MechControl 2 and 4 is robust to withstand the wear and tear of many years of daily use in industrial environments.
- User friendly.
- 10" colour monitor.
- · Graphical interface.
- Program library and auto generation of programs.

Ordering information

Aristo® MechControl 2	0444 500 880
Aristo® MechControl 4	0444 500 881
Sales Literature	XA00131420

Options & Accessories

Connection cable 1.7 m	0460 210 880
Connection cable 8.0 m	0460 210 881
Remote control MechT 1 CAN	0460 181 880

Cable between MechControl 2 or 4 and MechT 1 CAN:

Length 5 m	0459	554	880
Length 10 m	0459	554	881
Length 15 m	0459	554	882
Length 25 m	0459	554	883
Length 0.25 m	0459	554	884

Technical data	MechControl 2 and 4
Control voltage, V, Hz	42, 50-60
Dimensions LxWxH, mm (in.)	471x403x364 (18.5x15.9x14.3)
Weight, kg (lbs.) MechControl 2 MechControl 4	17.4 (38.3) 18.4 (40.5)
Enclosure class	IP 23





Aristo® MechTig 3000i and 4000iw

Robust and powerful orbital welding power sources

- The power sources are optimised to operate together with Mech Control 2 and 4.
- The control and communication CAN-bus system means less cables, which in turn increases operational reliability.
- The power sources are compact and sturdy. Aristo® MechTig 3000i have a separate cooling unit and Aristo® MechTig 4000iw have a built-in water cooling unit, both are equipped with ELP.
- The patented ESAB LogicPump ELP automatically starts the
 cooling water pump in the machine when a water cooled tool is
 connected to the MechControl. This eliminates the risk of overheating the tool. When a self-cooled tool is used, the pump is
 automatically shut off giving lower noise and longer lifetime for
 the cooling pump.
- Connection cables up to 8 metres provide a working range of up to 16 metres to suit all your individual needs.

Ordering information

Aristo® MechTig 3000i (3x400V, 50 Hz)	0459 745 882
Aristo® MechTig 4000iw (3x400V, 50 Hz)	0458 625 886
Connection cable 1.7 m	0460 210 880
Connection cable 8.0 m	0460 210 881

Options & Accessories MechTig 3000i

Cool-Midi 1800 MechTig	0459 840	881
Trolley 2-wheel	0459 366	890
Trolley 4-wheel	0460 060	880



Options & Accessories MechTig 4000iw

Multi Voltage unit. Wide body	
3x208/230/400/460/475/575 V, 50/60 Hz	0459 145 880
Handles incl mounting screws for	
9	0450 207 004
Multi Voltage unit (complete set = 2)	0459 307 881
Trolley	0458 530 880
Guide pin (if no trolley)	0458 731 880

Technical data	MechTig 3000i	MechTig 4000iw
Mains voltage, V, Hz	3x400, 50/60	3x400, 50x60
Fuse, slow, A	10	16
Mains cable, mm ²	4x2.5	4x4
Setting range, TIG DC, A	4-300	4-400
Permitted load, 40 °C at 35% duty cycle, A / V at 60% duty cycle, A / V at 100% duty cycle, A / V	300 / 22 240 / 19.6 200 / 18	400 / 26 320 / 23 250 / 20
Open circuit voltage, V	60	60
Energy save mode (400V), W	30	60
Power factor at maximum current	0.89	0.75
Efficiency at maximum current, %	81.5	97.1
Dimensions L x W x H, mm (in.)	652x249x423 without cooling unit	625x394x776 with cooling unit
Enclosure class	IP 23	IP 23
Insulation class (main trafo)	Н	Н
Operating temperature, °C	-10 to +40	-10 to +40
Weight, kg (lbs.)	30	81
Water cooling unit: Cooling capacity, W, I/min Coolant volume, I	CoolMidi 1800 1600 at 40°C, 1.2 4.2	Built-in cooling unit 2500 at 40°C, 1.5 5.5



Aristo® MechTig 3000i

Max flow, I/min



A21 PRB and PRC Tube-to-tube TIG welding tools

0443 750 882

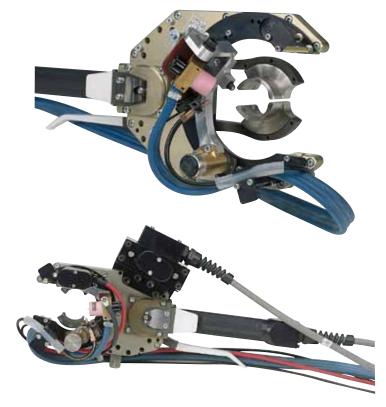
Small, flexible and lightweight

- Available in three sizes for tubes with outer diameters of 17 to 170 mm (0.67-6.7 inch)
- The PRB tools are available as water-cooled or air-cooled.
 They offer benefits in a number of application areas for welding stainless tubes in the food industry, process industry as well as heavy-duty engineering such as the energy and power industries.
- The PRC tools are water-cooled. They are available in two configurations with arc length control or with arc length control and weave control of the arc.
- The PRB tools can be used together with ESAB's power source MechTig C2002i or MechTig 4000iw/MechTig 3000i combined with MechControl 2 or 4.
- The PRC tools can be used together with ESAB's power source MedTig 4000iw/MechTig 3000i combined with MechControl 2 or 4.

Ordering information

PRB water-cooled		
Δ21 PRR 17-49 mm (0.67-2 inch	١	

AZT FRD, 17-49 IIIII (0.07-2 IIICII)	0443 / 30 862
A21 PRB, 33-90 mm (1-3.5 inch)	0443 760 882
A21 PRB, 60-170 mm (2-6.5 inch)	0443 770 882
PRB air-cooled	
A21 PRB, 17-49 mm (0.67-2 inch)	0443 750 883
A21 PRB, 33-90 mm (1-3.5 inch)	0443 760 883
A21 PRB, 60-170 mm (2-6.5 inch)	0443 770 883
PRC with Arc Voltage Control	
A21 PRC, 17-49 mm (0.67-2 inch)	0443 751 881
A21 PRC, 33-90 mm (1-3.5 inch)	0443 761 881
A21 PRC, 60-170 mm (2-6.5 inch)	0443 771 881
PRC with Arc Voltage Control and weaving	
A21 PRC, 17-49 mm (0.67-2 inch)	0443 752 881
A21 PRC, 33-90 mm (1-3.5 inch)	0443 762 881
A21 PRC, 60-170 mm (2-6.5 inch)	0443 772 881



Options & Accessories

Angular support bracket	0443 875 880
Rebuilding kit for PRB/PRC 17-49 for	
tubes with OD 8-17 mm (0.3-0.7 inch)	0444 002 880
Rebuilding kit for PRB/PRC 33-90 for	
tubes with OD 20-33 mm (0.8-1.3 inch)	0443 908 880
Rebuilding kit for PRB/PRC 60-170 for	
tubes with OD 44-60 mm (1.7-2.4 inch)	0443 909 880
Sales Literature	XA00098520

Technical data	PRB 17-49	PRB 33-90	PRB 60-170	PRC 17-49	PRC 33-90	PRC 60-170
Rate of rotation, rpm	0.1-2.4	0.1-1.6	0.05-0.95	0.1-2.4	0.1-1.6	0.05-0.95
Tube OD, mm (in.)	17-49 (0.67-1.93)	33-90 (1.3-3.54)	60-170 (2.36-6.7)	17-49 (0.67-1.93	33-90 (1.3-3.54)	60-170 (2.36-6.7)
Tube OD optional, mm (in.)	8-17 (0.31-0.67)	20-33 (0.79-1.30)	44-60 (1.73-2.36)	8-17 (0.31-0.67)	20-33 (0.79-1.30)	44-60 (1.73-2.36)
Max welding current at 100% duty cycle, water-cooled, A 100% duty cycle, air-cooled, A	250 100	250 100	250 100	250 -	250 -	250 -
Electrode diameter, mm (in.)	1.6/2.4 (1/16-3/32)	1.6/2.4 (1/16-3/32)	1.6/2.4 (1/16-3/32)	1.6/2.4 (1/16-3/32)	1.6/2.4 (1/16-3/32)	1.6/2.4 (1/16-3/32)
Weight (less cables), kg (lbs.) With AVC, kg (lbs.) With AVC and weaving, kg (lbs.)	2.8 (6) - -	3.2 (7) - -	4.4 (10) - -	3.3 (7) 5.1 (11)	- 3.7 (8) 5.5 (12)	- 4.9 (11) 6.7 (15)
Min spacing between two parallel tubes, mm (in.)	D/2+70 *) (D2+2.76) *)					
Arc adjustment rate, mm/s (ips)	-	-	-	2.5 (0.1)	2.5 (0.1)	2.5 (0.1)



A21 PRH Enclosed Tube TIG welding head

- Designed for welding thin-walled, stainless steel tubes to provide maximum gas shielding around the tube.
- Rotating part and tungsten electrodes are enclosed in a gas chamber formed by the outer casing, which also constitutes the clamping arrangement for the tube-to-tube to be welded.
- Water-cooled and available in three sizes to weld tubes between 3-76.2 mm (0.12-3 inch).
- Equipped with encoder motors for precise positioning of each sector when welding with different sets of parameters.
- Includes 8 m (26 ft.) connection cable.
- For use with ESAB's orbital TIG power source Aristo[®] MechTig C2002i or Aristo[®] MechTig 4000i combined with control box Aristo[®] MechControl 2 or 4.



Cartridge C + Collets C for PRH 3-12



Cartridge MF for PRH 3-12





Ordering information

Welding head PRH 3-12	0444 300 880
Welding head PRH 3-38	0444 301 882
Welding head PRH 6-76	0444 302 880
Sales Literature	XA00115920

Options & Accessories

Cartridges and collets are available for all diameters within the working range of each tool. Article numbers to be found in the product fact sheet XA00115920.

Technical data	PRH 3-12	PRH 3-38	PRH 6-76
Rate of rotation rpm	0.65-12.6	0.5-9.5	0.31-6.15
Tube outer diameter, mm (in.)	3-12.7 (0.12-0.50)	3-38.1 (0.12-1.50)	6-76.2 (0.24-3)
Max cont. welding current at 100% duty cycle, water-cooled, A	15	50	60
Max pulsed welding current, water-cooled, A	40	100	100
Electrode diameter, mm (in.)	1.0 (0.040)	1.6-2.4 (1/16-3/32)	1.6-2.4 (1/16-3/32)
Weight, incl cables, kg (lbs.)	5 (11)	6.5 (14)	7.5 (16.5)

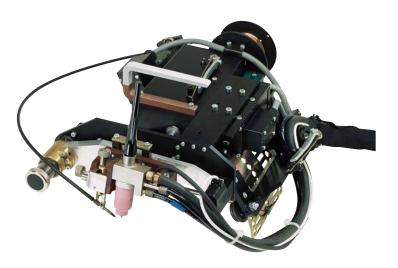


A21 PRD Orbital Tube and Pipe TIG welding head

The ultimate tube welder

A21 PRD 160

- Designed for pipes with an outer diameter of 160 mm (6 inch) or more.
- Carriage travels around the pipe on a rack adapted to match the diameter of the pipe.
- Basic model for thin-walled pipes includes one motor for travel.
- Options for thick walled pipes inlcude wire feed, arc voltage control (AVC) and weaving modules.
- For use with ESAB's orbital TIG power source Aristo® Mech Tig C2002i or MechTig 4000iw combined with MechControl 2 or MechControl 4.



Ordering information

A21 PRD 160 welding head Basic	0444 151 880
for use only when fusion welding with a floating head	
A21 PRD 160 with wire feeder	0444 151 881
A21 PRD 160 with AVC	0444 151 882
A21 PRD 160 with AVC and wire feeder	0444 151 883
A21 PRD 160 w/ AVC, wire feeder, weaving	0444 151 884
Sales Literature PRD 160	XA00106020

Options & Accessories

Standard racks for A21 PRD 160, please contact ESAB for more information.

Wire feed unit	0444 137 880
Arc voltage control (AVC)	0443 656 881
Weaving unit, complete	0444 140 880

Techni	cal data	A21 PRD 160
Max weldi	ng current, 100% duty cycle	315A, continuous DC 400A, pulsed DC
Working ra	ange, external, mm (in.)	160-1025 (6.3-40.4)
Clearance	height, mm (in.)	111-119 (4.4-4.7) for handle + 37 (+1.5)
Min distan	ce to flange, mm (in.)	18 at 0° skew (0.71)
Rotation s	peed, cm/min (in.)	2-40 (0.8-15.7)
Torch Electrode Angular ad	size, mm (in.) djustment	water-cooled with gas lens Ø 1.6-3.2 (1/16-1/8) -30° to +45°
Filler wire;	Feed speed, cm/min (ipm) Nozzle Spool, Ø mm (in.)	15-150 (5.9-59) adjustable in X, Y and Z-axis 100 (4)
Weaving;	Speed, mm/s (ips) Amplitude, mm (in.) Rest time at end position, s	2-12 (0.08-0.47) ± 15 (± 0.6) 0.1-10
AVC;	Speed, mm/s (ips) Amplitude, mm /(in.)	2.0 (0.8)
Weight wit	hout cables and rack, kg (lbs.)	approx. 8 (17.6)

A22 POC 12-60 Tube-to-Tube Sheet TIG welding head

Exact centering

- Precision-built, robust, versatile welding head for all types of tube-to-tube sheet welding.
- Working range of 12-60 mm (0.5-2.4 inch) outer diameter.
- · High centering accuracy.
- Patented centering mandrels area available for inner tube diameters from 9.9 mm (0.38 inch)
- Water-cooled and capable of pulsing at 200A, 60% duty cycle.
- For use with Aristo® MechTig C2002i or MechTig 4000iw/ MechTig 3000i combined with MechControl 2 or 4.



Options & Accessories

Counter-balancing block	0332 330 005
3-point support incl electrode holder	
for fillet welding up to Ø36 mm (1.4 in.)	0333 897 880
3-point support incl electrode holder	
for fillet welding Ø36-93 mm (1.4-3.6 in.)	0333 897 883
Additional gas cup	0441 000 880
Internal bore welding torch 9.5-15 mm (0.37-0.59)	0441 131 880
Internal bore welding torch, 15-20 mm (0.59-0.79 in.)	0441 132 880
Internal bore welding torch, 20-30 mm (0.79-1.18 in.)	0441 133 880

For information about Spindles and Centering Mandrels, see fact sheet XA00087220 or contact ESAB.

Ordering information

A22 POC 12-60 welding head with wire feed 0443 930 880 Sales Literature XA00087220



Technical data

12-60 (0.5-2.4) 12-36 (0.5-1.4)
0.2-4.5
1.6-2.4 (1/16-3/32)
180 at 60% duty cycle
4.8 (10.6)
8 (26.2)

 Wire feed unit;
 0.8-0.9 (0.030-0.35)

 Filler wire diameter, mm (in.)
 0.15-1.5 (5.9-59)

 Filler wire speed, m/min (ipm)
 0.15-1.5 (5.9-59)

 Wire spool diameter, mm (n.)
 100 (4)

 Wire reel weight, kg (lbs.)
 0.5 (1.1)



A25 Mechanized TIG Modular Component System

The key to mechanization of your TIG welding

- Modular components can be easily combined to create customized solutions for specific welding requirements.
- TIG Narrow Gap method can be used together with A25 system for extremely small joint angle and subsequent low joint volume.
- Choose between different models with arc voltage control (AVC), weaving slides, manual horizontal and vertical slide, floating slides, circular slides, wire feeder and BTE 250M or BTE 500M torch.
- ESAB's well-proven power source Aristo® MechTig 4000iw/ MechTig 3000i combined with control box MechControl 4 can be used for control of functions like AVC, weaving, wire feed, rotation and other welding parameters.
- The power source Aristo® MechTig 4000iw/MechTig 3000i combined with MechControl 2 are used for control of functions like wire feed, rotation and other welding parameters.



Ordering information

A25 Welding Automat	with BTE 250M	with BTE 500M
With AVC	0443 911 880	0443 911 881
With AVC, weaving slides	0443 911 882	0443 911 883
With AVC, manual horizontal slides	0443 911 884	0443 911 885
With manual vertical and horizontal slides	0443 911 886	0443 911 887
With slides for floating head	0443 912 880	0443 912 881
Complete system with AVC, weaving slides,		
wire feed unit, VEC motor with turntable,		
mounted on stand	0443 910 880	0443 910 881
Sales Literature	XA00089520	

Ordering information - components

For information about Components, see fact sheet XA00089520 or contact ESAB.

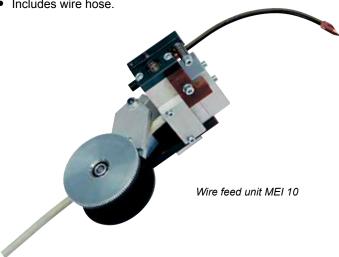
Technical data	
AVC slide amplitude, mm (in.)	76 (3)
AVC slide speed, mm/s (ipm)	2.8 (0.1)
Weaving slide amplitude, mm (in.)	76 (3)
Weaving slide speed, mm/s (ipm)	19 (0.75)
Manual slide amplitude, mm (in.)	93 (3.6)
Floating slide amplitude, mm (in.)	76 (3)
Wire diameter, mm (in.)	0.6-1.6 (0.024-0.063)
Wire feed speed, m/min (ipm)	0.1-2.6 (4-102)
VEC motor with encoder speed, rpm	1000
VEC motor with encoder ratio	672:1



MEI 10 and MEI 21 Wire Feed Units

MEI 21 Wire feed unit

- Four wire rollers for orbital TIG welding.
- Eliminates the need for a wire feed unit and wire spool mounted on the welding head.
- Use with 5 kg (11 lbs.) wire spools.
- For wire diameters of 0.6-0.8 mm (0.023-0.031 inch).
- Includes wire hose.



Ordering information

MEI 21	0443 830 880
MEI 10 for PRB/PRC 17-49 with AVC	0444 211 880
MEI 10 for PRB/PRC 33-90 with AVC	
and PRC 33-90 with AVC and weaving	0444 212 880
MEI 10 for PRB/PRC 60-170 with AVC	
and PRC 60-170 with AVC and weaving	0444 213 880
Sales Literature MEI 21	XA00089020
Sales Literature MEI 10	XA00098620

MEI 10 Wire feed unit

- Developed for mounting PRB 17-170 tools (PRC 17-49 only with AVC).
- PRB tools with MEI 10 can be used with power source Aristo® MechTig C2002i or MechTig 4000iw combined with Mech-Control 2 or 4.
- PRC tools with MEI 10 can be used with power source Aristo® MechTig 4000iw combined with MechControl 4.
- Ideal for aluminium welding with short wire feed distance from the reel to the molten pool.
- Also use for mild steel and stainless steel.
- For wire diameters of 0.8-1.0 mm (0.030-0.040 inch) for aluminium, 0.8 mm (0.030 inch) for steel.
- Motor equipped with pulse generator for precise wire feed speed adjustment.



Technical data	MEI 21	MEI 10
Wire diameter, mm (in.)	0.6-0.8 (0.023-0.031)	0.8 (0.031)
Wire feed, m/min (ipm)	0.1-2.6 (0.004-0.1)	0.1-1.2 (0.004-0.05)
Max. spool dimension/weight, Ø mm/kg (in./lbs.)	200/5 (8/11)	60/0.26 (2.4/0.6)
Hub width, mm (in.)	60 (2.4)	-
Hub hole diameter, mm (in.)	51.5 (2)	-
Wire guide length, m (ft.)	4.2 (14)	0.1 (0.3)
Weight, kg (lbs.)	4 (8.8)	0.5 (1.1)

Controllers &Power Sources

A2-A6 Process Controller PEK

For use with ESAB CAN-controlled power sources and motors

- For use with ESAB automatic power sources LAF 631/ 1001/1251/1601 and TAF 801/1251.
- · CAN-bus system for data transfer.
- Prepared for submerged arc welding (SAW), gas metal arc welding (GMAW) and arc gouging.
- User-friendly clear text menus.
- Selectable welding process.
- Memory for 255 parameter sets.
- Constant current or constant wire speed.
- Encoder controlled motors for top performance motion control.
- USB port for data back-up and transfer.
- Used welding parameters can be stored directly on a USB memory drive.
- Documentation of used welding parameters on PC or through LAN with WeldPoint™.
- Five Soft Keys can be configured according to operator preferences.

Adjustable sun shield for better visibility for outdoor use





Ordering information

A2-A6 process controller PEK	0460 504 880
Sales Literature	XA00143720

Options & Accessories

I/O-Module	0462 080 001
Set of connectors	0462 119 880
Cable restraining bracket	0460 861 880

Technical data

Connection voltage from the power source	42V AC, 50/60 Hz
Connection power	max 900 VA
Motor connection adjusted for ESAB's A2 and A6 motors	connection of 2 motors, motor current 6A cont., max 10A
Speed control	feedback from pulse encoder
Welding speed, m/min (ipm)	0.1-2.0 (4-79) depending on travel carriage
Max. manual travel speed, m/min (ipm)	2.0 (79)
Consumable wire feed speed, m/min (ipm)	0.3-25 (12-984) depending on wire feed unit
Valve output	1 pc, 42 V AC, 0.5A
Inputs	for connection of sensors or limit switches
Connection to power source	Burndy contact 12-poles
Max ambient temperature, °C (°F)	45 (113)
Min ambient temperature, °C (°F)	-15 (59)
Relative humidity (of air)	98%
Dimensions, LxWxH, mm (in.)	246x235x273 (7x9.25x11)
Weight, kg (lbs)	6.6 (14.5)
Enclosure class	IP23
Standards	EN60974-1, EN60974-10

Controllers and Power Sources



A2 Process Controller PEI

For use with ESAB power sources and motors

- Control system for A2 tractors and A2 welding heads
- Analogue type that can control most brands of power supplies.
- Suitable for submerged arc welding (SAW) or gas metal arc welding (GMAW)
- Travel speed, voltage and wire feed speed can be adjusted by simply turning the knobs - actual data is shown on digital displays during welding.
- Change welding direction using switch on front panel.
- Choice of scratch start or direct start methods.
- Adjustable burn-back time.

Ordering information

A2 process controller PEI 0449 330 880 Sales Literature XA00114320



Options & Accessories

Control cable, 15 m (49 ft)	0449 500 880
Control cable, 25 m (82 ft.)	0449 500 881
Control cable, 35 m (115 ft.)	0449 500 882
Control cable, 50 m (164 ft.)	0449 500 883
Control cable, 75 m (246 ft.)	0449 500 884
Control cable, 100 m (328 ft.)	0449 500 885

Technical data

Connection voltage from the power source	42V AC, 50/60 Hz
Connection power	max 700 VA
Motor connection adjusted for ESAB's A2 motors	42V DC, 3.5 A P100%, 4.5A P60%
Speed control	Internal EMK-adjustment
Welding speed, m/min (ipm)	0.1-2.0 (4-79) depending on travel carriage
Max. transport speed, m/min (ipm)	2.0 (79)
Consumable wire feed speed, m/min (ipm)	0.5-16.2 (20-640) depending on wire feed unit
Burnback time, s	0-2.0
Gas pre-flow time, s	0.5
Gas post-flow time, s	1.0
Connection to power source	Burndy contact, 23 poles
Welding voltage control, V DC	0-10
Flow guard	NO Contact / PNP OC
Limit switches	NO Contact / PNP OC
External current shunt, A/mV	1000/60, 1500/60, 600/100, 750/100
Operating temperature, °C (°F)	-10 - +40 (14-104)
Weight, kg (lbs.)	6.2 (14)
Dimensions LxWxH, mm (in.)	197x227x220 (7.8x9.0x8.7)
Enclosure class	IP23
Standards	EN50199, EN60974-1



Power sources LAF 631, 1001, 1251 and 1601

DC power sources for submerged-arc welding (SAW) or gas metal arc welding (GMAW)

- Three-phase, fan-cooled DC welding power sources designed for high productivity automated submerged-arc welding (SAW) or high productivity gas metal arc welding (GMAW).
- Used in combination with ESAB's A2-A6 equipment range and the A2-A6 Process Controllers (PEK or PEI).
- Good arc stability at both high and low arc voltages.
- Adjust and monitor the welding parameters on the power source from the front panel of the process controller (PEK or PEI).
- Welding current range can be extended by connecting two po wer sources in parallel for the most demanding applications.
- Power source prepared for communication using most standard protocols like TCP/IP (LAN), CAN or even straight communication with a PLC. Optional communication modules might be needed depending on types of used protocol.
- Ideal for SAW applications such as wind tower components, nuclear power vessels, boilers and in the ship building industry.
- Ideal for GMAW applications such as welding the root pass in heavy pipe production.



LAF 631 in combination with MechTrac and GMH



Ordering information

LAF 631	0460 512 880
LAF 1001	0460 513 880
LAF 1251	0460 514 880
LAF 1601	0460 515 880
LAF 1001 M	0460 513 881
LAF 1251 M	0460 514 881
LAF 1601 M	0460 515 881
Sales Literature	XA00143820

Options & Accessories

PEK

r L N	
Control cable, 15 m (49 ft.)	0460 910 881
Control cable, 25 m (82 ft.)	0460 910 882
Control cable, 35 m (115 ft.)	0460 910 883
Control cable, 50 m (164 ft.)	0460 910 884
PEI	
Control cable, 15 m (49 ft.)	0449 500 880
Control cable 25 m (82 ft)	0440 500 881

Control cable, 15 m (49 ft.) 0449 500 880
Control cable, 25 m (82 ft.) 0449 500 881
Control cable, 35 m (115 ft.) 0449 500 882
Control cable, 50 m (164 ft.) 0449 500 883
Control cable, 75 m (246 ft.) 0449 500 884
Control cable, 100 m (328 ft.) 0449 500 885
Wheel set LAF 631 0457 787 880

Controllers and Power Sources



Power sources LAF 631, 1001, 1251 and 1601

Cont.

Technical data	LAF 631	LAF 1001	LAF 1251	LAF 1601
Mains supply, 3 ph 50 Hz, V	400/415	400/415/500	400/415/500	400/415/500
Mains supply, 3 ph 60 Hz, V	440	400/440/550	400/440/550	400/440/550
Current 100%, 50 Hz, A	52	64/64/52	99/99/80	136/136/108
Current 100%, 60 Hz, A	52	64/64/52	99/99/80	136/136/108
Fuse, slow, 50 Hz, A	63	63	100/100/80	160/160/125
Fuse slow, 60 Hz, A	63	63	100/100/80	160/160/125
Maximum load at: 100% duty cycle, A/V 80% duty cycle, A/V 60% duty cycle, A/V	630/44 - 800/44	800/44 - 1000/44	1250/44 - -	1600/44 - -
Setting range, A/V GMAW SAW	50/17-630/44 30/21-800/44	50/17-1000/45 40/22-1000/45	60/17-1250/44 40/22-1250/44	- 40/22-1600/46
Open circuit voltage, V	54	52	51	54
Open circuit power, W	150	145	220	220
Efficiency	0.84	0.84	0.87	0.86
Power factor	0.90	0.95	0.92	0.87
Enclosure class	IP23	IP23	IP23	IP23
Dimensions, LxWxH, mm (in.)	670x490x930 (26x19x37)	646x552x1090 (25x22x43)	774x598x1428 (30.5x23.5x56)	774x598x1428 (30.5x23.5x56)
Weight, kg (lbs.)	260 (573)	330 (727.5)	490 (1080)	585 (1290)
Application class	S	S	S	S

Technical data	LAF 1001 M	LAF 1251 M	LAF 1601 M
Mains supply, 3 ph 50 Hz, V	230/400/415/500	230/400/415/500	230/400/415/500
Mains supply, 3 ph 60 Hz, V	230/400/440/550	230/400/440/550	230/400/440/550
Current 100%, 50 Hz, A	111/64/64/52	171/99/99/80	235/136/136/108
Current 60%, 50 Hz, A	138/80/80/65	-	-
Current 100%, 60 Hz, A	111/64/64/52	171/99/99/80	235/136/136/108
Current 60%, 60 Hz, A	138/80/80/65	-	-
Fuse, slow, 50 Hz, A	125/63/63/63	160/125/125/80	200/160/160/125
Fuse, slow, 60 Hz, A	125/63/63/63	160/100/100/80	200/160/160/125

For all other technical information, see LAF 1001, LAF 1251 and LAF 1601, above.

These welding power sources comply with the requirements of EN 60974-1 and IEC 974-1.

S This symbol indicates that the welding power source may be used in areas with an increased electrical hazard, e.g. areas where the electrical hazard is increased due to damp and/or the proximity to earthed metal objects.

Power sources TAF 801 and 1251

Square wave AC power sources for submerged arc welding (SAW)

- Square wave AC power sources that convert the secondary voltage from a sinus wave via a thyristor controlled rectifier bridge to a square wave arc voltage with excellent strike characteristics and good welding properties.
- · Capacity for continuous welding
- Pre-setting of arc voltage.
- Reliable square wave striking.
- Arc voltage or current feed back.
- · Optimized open circuit voltage.
- · Compensation of mains supply fluctuation.
- · Voltage drop compensation for long welding cables.
- High power factor ensuring low power consumption.
- Designed and built for convenient servicing.
- Safety control voltage 42V.
- Prepared for Scott connection of two power sources.
- Used in combination with ESAB's A2-A6 equipment range and the A2-A6 Process Controllers (PEK or PEI).
- Power source prepared for communication using most standard protocols like TCP/IP (LAN), CAN or even straight communication with a PLC. Optional communication modules might be needed depending on types of used protocol.



Ordering information

TAF 801	0460 516 880
TAF 1251	0460 517 880
Sales Literature	XA00143920

Options & Accessories

Control cable, 15 m (49 ft.)	0460 910 881
Control cable, 25 m (82 ft.)	0460 910 882
Control cable, 35 m (115 ft.)	0460 910 883
Control cable, 50 m (164 ft.)	0460 910 884

Technical data	TAF 801	TAF 1251
Mains supply, 1 ph 50 Hz, V	400/415/500	400/415/500
Mains supply, 1 ph 60 Hz, V	400/440/550	400/440/550
Maximum load at: 100%duty cycle, A/V 60% duty cycle, A/V	800/44 1000/44	1250/44 1500/44
Setting range, A/V	300/28-800/44	400/28-1250/44
Open circuit voltage, V	71	72
Open circuit power, W	230	230
Efficiency	0.86	0.86
Power factor	0.75	0.76
Dimensions, LxWxH, mm (in.)	774x598x1428 (30.5x23.5x56)	774x598x1428 (30.5x23.5x56)
Weight, kg (lbs)	495 (1091)	608 (1340)
Enclosure class	IP23	IP23
Application class	S	S

Controllers and Power Sources



Power source Aristo® 1000 AC/DC SAW

AC/DC inverter power source for efficient submerged arc welding

- Based on unique and patent pending technologies to deliver the best welding performance with the lowest power consumption.
- Designed for use with the digital PEK controller and the robust A2/A6 feeder units.
- A global inverter connect to a three phase mains supply from 380 to 575 V, 50 or 60 Hz.
- Change between DC and AC "on the fly". Minimize downtime and weld defects by the push of a button with the patent pending "on the fly" function.
- Long welding cables. The patent pending Cable Boost™
 technology stores energy and instantly delivers up to 450%
 additional energy when required. Cable Boost extends the
 maximum usable weld cable length with more than a factor
 two, without compromising the weld result.
- Cable Boost[™] is also an energy saver. The inductive energy generated in the welding cables is re-used in the welding process instead of being wasted as heat and power losses.
- Designed for uninterrupted welding production. There are no connectors or cables at any exposed positions. All cables are connected behind a door in the front of the machine. Easily accessible for service and well protected against damage.

Technical data	
Mains supply, 3 ph, V, Hz	380-575, 50/60
Mains current (DC load), A / V	86 / 380 82 / 400 79 / 415 74 / 440 71 / 460 66 / 500 59 / 550 57 / 575
Mains fuse (slow), A / V	100 / 380 100 / 400 80 / 415 80 / 440 80 / 460 80 / 500 63 / 550 63 / 575
Maximum load at 100% duty cycle, A / V	1000 / 44
Open circuit voltage, V	130
Open circuit power, W	240
Efficiency at max rating	0.88
Power factor	0.93
Dimensions, LxWxH, mm (in.)	865x610x1320 (34x24x52)
Weight, kg (lbs)	330 (727.5)
Enclosure class	IP23
Certification	CE-certified
Third party approvals	ETL, CCC, Ghost-R



Ordering information

Aristo [®] 1000 AC/DC SAW	0462 100 880
Sales literature, fact sheet	XA00153220
Sales literature, process brochure	XA00155520

Options & Accessories

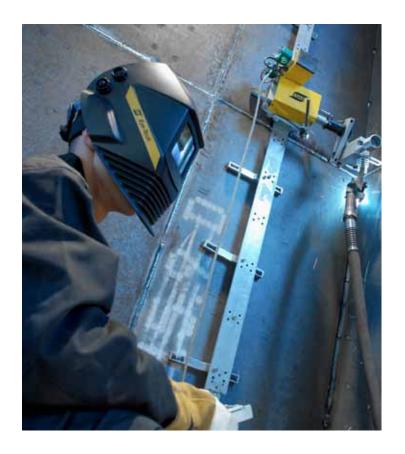
Control cable, 15 m (49 ft.)	0460 910 881
Control cable, 25 m (82 ft.)	0460 910 882
Control cable, 35 m (115 ft.)	0460 910 883
Control cable, 50 m (164 ft.)	0460 910 884
A2-A6 Process controller PEK	0460 504 880

WeldingTractors

Railtrac 1000

Multi-purpose system for welding and cutting

- Ideal for a wide variety automated gas metal arc welding (GMAW) applications.
- Made from aluminium and steel parts to withstand harsh environments.
- Ideal for horizontal to horizontal and vertical (up only) welding.
- Can be customized with a wide range of accessories.
- New joint system allows for both stiff and flexible rail applications.
- Straightforward, well designed programming unit with up to 5 different programs.
- Standard software offers programmable interval welding and backfill function.
- Operator can control machine motions with hand held remote without lifting welding visor.
- Remote Control features: start and stop, shift program, weaving width, zero line displacement and many more.
- Adjust the welding current and voltage during welding with the two potentiometers on the remote control (when using ESAB equipment).
- Remote control only available on FW1000 and FWR1000 models.



Technical data	Railtrac F1000 Flexi	Railtrac FR1000 Flexi Return	Railtrac FW1000 Flexi-Weaver	Railtrac FW1000L Flexi-Weaver	Railtrac FWR1000 Flexi-Weaver-Return
Mains supply, V AC/DC	36-46/40-60	36-46/40-60	36-46/40-60	36-46/40-60	36-46/40-60
Max power consumption, W	30	30	80	80	80
Weight, excl rails, Kg (lbs)	6 (13)	6 (13)	7 (15)	7 (15)	7 (15)
Dimensions, LxWxH, mm (in.)	170x400x190 (6.7x15.8x7.5)	170x400x190 (6.7x15.8x7.5)	170x350x190 (6.7x13.8x7.5)	170x350x190 (6.7x13.8x7.5)	170x350x190 6.7x13.8x7.5
Flexi rail dimensions, LxW, mm (in.)	60x5 (2.4x0.2)	60x5 (2.4x0.2)	60x5 (2.4x0.2)	60x5 (2.4x0.2)	60x5 (2.4x0.2)
Stiffener bar, LxW, mm (in.)	40x10 (1.6x0.4)	40x10 (1.6x0.4)	40x10 (1.6x0.4)	40x10 (1.6x0.4)	40x10 (1.6x0.4)
Min bend diameter, external, mm (in.)	3000 (118)	3000 (118)	3000 (118)	3000 (118)	3000 (118)
Slide for height adjustment, mm (in.)	±22 (±0.87)	±22 (±0.87)	±22 (±0.87)	-	±22 (±0.87)
Mechanical lateral adjustment, mm (in.)	-	-	±35 (±1.4)	±35 (±1.4)	±35 (±1.4)
Welding speed, cm/min (ipm)	10-150 (3.9-59)	10-150 (3.9-59)	10-150 (3.9-59)	5-99 (1.95-39)	10-150 (3.9-59)
Quick transport, cm/min (ipm)	150 (59)	150 (59)	150 (59)	99 (39)	150 (59)
Prehating time, sec	0.0-9.9	0.0-9.9	0.0-9.9	0.0-9.9	0.0-9.9
Interval welding, cm (in.)	1-99 (0.4-39)	1-99 (0.4-39)	1-99 (0.4-39)	1-99 (0.4-39)	1-99 (0.4-39)
Crater-filling time, sec	0.0-9.9	0.0-9.9	0.0-9.9	0.0-9.9	0.0-9.9
"Backfill", mm (in.)	0-99 (0-3.9)	0-99 (0-3.9)	0-99 (0-3.9)	0-99 (0-3.9)	0-99 (0-3.9)
Weaving speed, mm/s (ips)	-	-	6-60 (0.2-2.4)	6-60 (0.2-2.4)	6-60 (0.2-2.4)
Weaving width, mm (in.)	-	-	1-30 (0.04-1.2)	1-30 (0.04-1.2)	1-30 (0.04-1.2)
Electrical 0-line displacement, mm (in.)	-	-	±12.5 (±0.5)	±12.5 (±0.5)	±12.5 (±0.5)
Pause time at outer edge, sec	-	-	0.0-9.9	0.0-9.9	0.0-9.9
Weaving pattern, No.	-	-	3	3	3
Number of programs	5	5	5	5	5
Temperature machine and magnets, °C	0-70	0-70	0-70	0-70	0-70
Temperature vacuum attachments, °C	0-90	0-90	0-90	0-90	0-90
Enclosure class	IP23	IP23	IP23	IP23	IP23



Railtrac 1000

System configuration

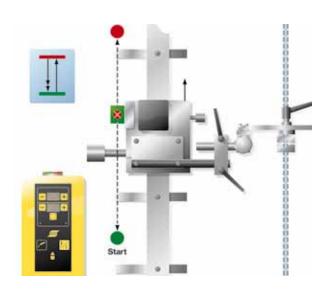
Railtrac F1000 Flexi

A mechanised system with a flexible combi-rail, suitable for both inside and outside welding and cutting along sharp curves as well as straight surfaces. This model is also suitable for thermal cutting.



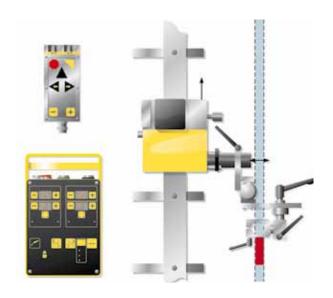
Railtrac FR1000 Flexi Return

Railtrac FR1000 has the combi-rail and facilities for movable start and stop for automatic return for any length. This system is ideal for use in fixed installations or where a weld is repeated over and over again.



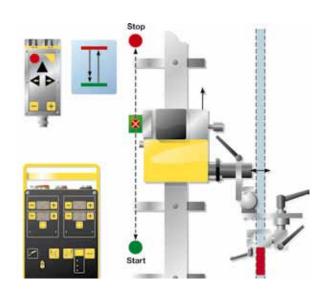
Railtrac FW1000 Flexi Weaver

This version has a flexible combi-rail and a weaver for weaving in many different patterns. It is also equipped with a remote-controlled unit with a user-friendly design.



Railtrac FWR1000 Flexi Weaver Return

Like the Flexi Weaver, this system has a weaving unit, but it also has adjustable start, stop and return facilities. Equipped with a remote control unit with a unique design, this is a very advanced solution for a number of applications.



Railtrac 1000

Cont.

Ordering information

Railtrac F1000 Flexi	0398 146 002
Railtrac FR1000 Flexi Return	0398 146 003
Railtrac FW1000 Flexi Weaver	0398 146 012
Railtrac FW1000L Flexi Weaver (low speed)	0398 146 014
Railtrac FWR1000 Flexi Weaver Return	0398 146 013
Sales Literature	XA00135520

Options & Accessories

Standard

Weaving unit *) Control unit Remote control *) Universal Torch holder with slide Automatic start and stop function **)

Components

Flexible alu-rail, 2.5 m (8 ft.)	0398	146 1	15
Flexible alu-rail, 2.5 m (8 ft.), 8 magnets	0398	146 1	12
Flexible alu-rail, 2.5 m (8 ft.), vacuum attachments	0398	146 1	13
Stiffener Bar, 2.5 m (8 ft.)	0398	146 1	16
Magnetic attachment 90°, at least 8/2.5 m (8/8 ft.)	0398	146 1	00
Vacuum attachment 90°, at least 4/2.5 m (4/8 ft.)	0398	146 1	04
Vacuum attachment 200°, at least 4/2.5 m (4/8 ft.)	0398	146 1	05
Screw attachment for stiffened rail	0398	146 1	14

Accessories

Accessories	
Torch holder	0398 145 101
Adapter for stiffened rail attachments	0398 146 106
Universal pivoted torch holder	0398 145 104
Attachment for IMP cutting toch	0398 145 260
Torch angle attachment	0398 145 215
Tilt unit for weaving unit *)	0398 145 200
Turning unit for weaving unit *)	0398 145 201
"Floating" head	0398 145 211
IMP cutting torch	0398 145 250
Transport and storage box	0398 145 199
Control cable, 5 m (16.4 ft.)	0457 360 880
AristoFeed wire feeder adaptor kit	0458 757 881
Universal control cable, 5 m (16.4 ft.)	0457 360 881
Transformer kit	0457 467 880

- *) FW1000, FW1000L, FWR1000 only **) FR1000 and FWR1000 only







Railtrac Orbital W

The machine to automate your tube welding

The Railtrac Orbital W is a superb alternative if you wish to automate your tube welding. It is ideal for use with ESAB's semi-automatic power sources and feed units.

The Railtrac Orbital W is a small compact motor powered tractor. A standard ESAB welding torch can be attached quickly. Two motors guarantee an even, stable movement on the rail.

The control box allows you to control the following parameters and store 5 different welding programs:

- Start and stop
- Shift program
- Travel or welding direction
- Travel or welding speed
- Weaving width
- Zero line displacement
- Welding current (wire feed speed)
- Welding voltage
- Backfill function

Technical data	
Control voltage, V AC	36-46
Power, W	90
Connection	Burndy, 12 pins
Welding speed, cm/min (ipm)	5-99 (2-39)
Slide for height adjustment, mm (in.)	±22 (±0.9)
Weaving speed, mm/sec. (ips.)	6-60 (0.2-2.4)
Weaving width, mm (in.)	1-30 (0.04-1.2)
Pause time at outer edge, sec	0.0-9.9
Electrical 0-line displacement, mm (in.)	±12.5 (±0.5)
Number of programs	5
Dimensions (LxWxH), mm (in.)	312x327x181 (12.3x12.9x7.1)
Weight, kg (lbs)	8 (17.6)
Enclosure class	IP 23



Ordering information

Railtrac Orbital W 0398 146 032

Options & Accessories

Floating head	0398 145 211
Orbital ring 6"	0449 900 706
Orbital ring 8"	0449 900 708
Orbital ring 10"	0449 900 710
Orbital ring 12"	0449 900 712
Orbital ring 14"	0449 900 714
Orbital ring 16"	0449 900 716
Orbital ring 18"	0449 900 718
Orbital ring 20"	0449 900 720
Orbital ring 22"	0449 900 722
Orbital ring 24"	0449 900 724
Orbital ring 26"	0449 900 726
Sales Literature	XA00133720

Larger ring sizes available on request

Railtrac BV/BVR 1000

Programmable equipment for hardfacing and repair of rail profiles

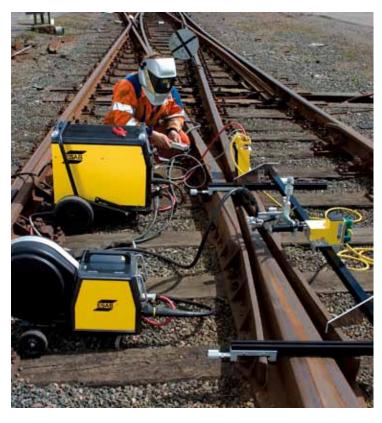
- Light weight makes it quick and easy to remove the aluminium travel beam from rail or crossing and simple to restore to its original position on the work piece.
- It can be used with a number of different power sources and wire feeder combinations.
- Precise adjustments of the weaving pattern, travel speed and zero line can all be achieved during welding.
- Welding parameters are adjustable from the remote control.
- CE and EMC approved.
- IP 23 enclosure class makes it suitable for use out-doors.
 Control voltage level of 42V AC is safe for use anywhere.

Ordering information

Railtrac BV 1000, complete excl welding equipment
Railtrac BVR 1000, complete excl welding equipment
Torch holder
Sales Literature

0398 145 002
0398 145 003
0398 145 101
XA00067820

Technical data	
Connection voltage, V AC / V DC	36-46 / 40-60
Max. output consumption, W	80
Weight excl. rail, kg (lbs.)	7 (15.4)
Weight of rail 2 m, kg (lbs.)	4 (8.8)
Slide for adjusting height of torch, mm (in.)	±22 (±0.9)
Mechanical lateral adjustment, mm (in.)	200 (7.9)
Gun attachment universal, mm (in.)	Ø 12-36 (Ø 0.5-1.4)
Max. effective weld length, mm (in.)	1500 (59)
Welding speed, cm/min (ipm)	10-150 (0.2-59)
Fast transport speed, cm/min (ipm)	150 (59)
Weaving speed, mm/s (ips)	7-50 (0.3-2.0)
Weaving width (W), mm (in.)	1-80 (0.04-3.1)
Zero-line shift, mm (in.)	25 / ±12.5 (1.0 / ±0.5)
Programmable edge length (L), cm (in.)	6-99 (2.4-39)
Number of programs	BV: 4, BVR: 6
Enclosure class	IP23







Tramtrac™ II

A cost-efficient and flexible solution for the repair of embedded city tramway rails.

Tramtrac™ II is ESAB's latest equipment for the repair of embedded grooved city tramway rails. Using the FCAW process with self-shielded wires, instead of the conventional SAW process, provides a number of advantages in terms of ease of use and cost-efficiency.

- The FCAW process makes Tramtrac™ II a small and ultra lightweight solution.
- Easy to store and move around from site to site.
- The tractor can be hand-carried and is easily installed and removed on and off the rail, allowing trams to pass within a controlled safety situation.

Ordering information

Tramtrac™ II	0814 721 880
Connection cable 10 m (33 ft.)	0457 360 884
Origo™ MIG 410	0349 302 408
Origo™ MIG 320	0349 303 562
Magnetic earth return cable & clamp	0000 500 415
OK Tubrodur 14.71, 1.6 mm (1/16 in.)	1471 167 730
OK Tubrodur 15.65, 1.6 mm (1/16 in.)	1565 167 730
Sales Literature	XA00133420

Technical data	
Control voltage, V AC	36-46
Power, W	90
Welding speed, mm/min (ipm)	30-100 (1.2-3.9)
Dimensions LxWxH, mm (in.)	600x300x150 (23.6x11.8x5.9)
Weight without consumables, kg (lbs.)	12 (26.5)





Miggytrac 1001

The perfect complement to your GMAW power source

- Small, compact, motorized tractor.
- Easy to attach to ESAB welding torch.
- The tractor is held in the correct position on the workpiece with a magnet, even if the workpiece is bent or angled.
- · Remote controlled travel.
- Start/stop function from the remote control panel.
- Travel speed settings of 150-1200 mm/min (6-47 ipm), wire feed speed and voltage all functions of the remote control.
- Significantly increased welding speed, especially when using cored wire.

Ordering information

Miggytrac 1001	0457 357 881
Welding screen	0457 463 880
Sales Literature	XA00126320

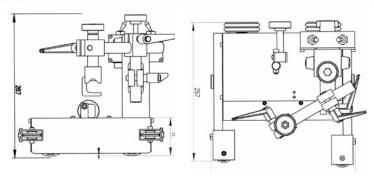
Options & Accessories

cable to OEM feeders)

ESAB Control cable, 5 m (16.4 ft) (12 pin male-23 pin male Burndy style) Origo™ Feed and Aristo™Feed feeders	0457 360 880
ESAB AristoFeed adaptor kit (required for connection of Miggytrac to Aristo™ Feed feeders)	0459 681 880
Universal control cable, 5 m (16.4 ft) (12 pin male Burndy style-open end). Requires user-supplied plug to connect	0457 360 881

Technical data	
Control voltage, V AC	36-46
Power, W	20
Welding speed, mm/min (ipm)	150-1200 (6-47)
Remote control outlet	Volt and ampere (wire feed speed)
Connection	Burndy, 12 pins
Dimensions, LxWxH, mm (in.)	266x257x267 (10.5x10x10.5)
Weight, kg (lbs.)	7 (15.4)









Miggytrac 2000

The perfect complement to your GMAW power source

- Ideal for long welds eliminating stressful welding positions for the welder.
- The tractor is held in the correct position on the workpiece with a magnet, even if the workpiece is bent or angled.
- Guide wheels adjust to allow the unit to drive itself against the workpiece.
- Program for intermittent welding.
- Set length of weld and distance between welds from 1-99 cm (0.4-39 in.)
- High-speed travel between welds 250 cm/min (98 ipm)
 for increased efficiency.
- Backfill function for crater filling at the end of the weld.
- Adjust the welding current and voltage during welding with the two potentiometers on the control panel (when using ESAB equipment).

Ordering information

Miggytrac 2000	0457	358	880
Welding screen	0457	463	881
Sales Literature	XA00	1047	720

Options & Accessories

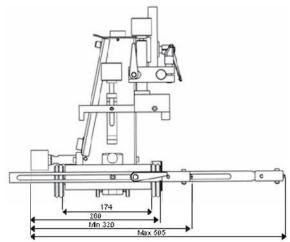
(12 pin male Burndy style-open end). Requires user-supplied plug to connect

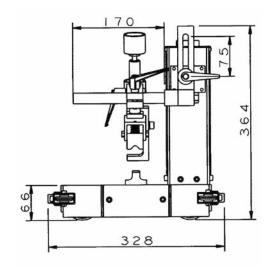
cable to OEM feeders)

ESAB Control cable, 5 m (16.4 ft) (12 pin male-23 pin male Burndy style) Origo™ Feed and Aristo™ Feed feeders	0457 360 880
ESAB AristoFeed adaptor kit (required for connection of Miggytrac to Aristo™ Feed feeders)	0459 681 880
Universal control cable, 5 m (16.4 ft)	0457 360 881

Technical data	
Control voltage, V AC	36-46
Power, W	40
Welding speed, mm/min (ipm)	150-1500 (6-59)
Fast travel speed, cm/min (ipm)	250 (98.4)
Programmable Interval Welding, cm (in.)	1-99 (0.4-37)
Linear slide stroke length (horizontal), mm (in.)	±17 (±0.67)
Remote control outlet	Volt and ampere (wire feed speed)
Connection	Burndy, 12 pins
Crater fill time, s	0-9.9
Backfill, cm (in.)	0-9.9 (0-4)
Dimensions, LxWxH, mm (in.)	330x260x360 (13x10x14)







Miggytrac 3000

The complete small welding automat for Gas Metal Arc Welding

- Small, compact, motorized tractor with integrated wire feed and water-cooled welding torch designed for horizontal mechanized MIG welding of plates and beams
- Four-wheel drive carriage
- Carriage can travel diagonally towards the flange or stiffener to be welded.
- Program for intermittent welding.
- · Carriage motion and wire feed controlled separately.
- Set weld length and distance between welds from 1-99 cm (0.4-39 in.)
- Distance between beads run at transport speed of 250 cm/min (98 ipm) for optimal efficiency.
- Program wire feed speed, time for gas pre-flow, gas post-flow and burnback.

Ordering information

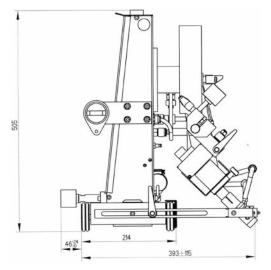
Miggytrac 3000 0457 359 880 With straight, water-cooled swan neck

Delivered without contact tip

Sales Literature XA00123620

Technical data	
Wire dimensions, mm (inch) - Unalloyed steel - Stainless steel - Cored wire	1.0-1.4 (0.040 - 0.055) 1.0-1.4 (0.040 - 0.055) 1.0-1.4 (0.040 - 0.055)
Control voltage, V AC	36-46
Power, W	80
Welding speed, mm/min (ipm)	150-1500 (6-59)
Transport speed, cm/min (ipm)	250 (98.4)
Lengths at Intermittent welding, cm (in.)	1-99 (0.4-39)
Crater fill time, sec.	0-9.9
Backfill, cm (in.)	0-9.9 (0-4)
Wire feed speed, m/min (ipm)	2-25 (79-984)
Gas pre-flow/post-flow, sec	0-9.9
Burnback, sec.	0-9.9
Filler wire reel, in.	12
Dimensions, LxWxH, mm (in.)	370x400-530x520 (14.5x16-21x20.5)
Linear slide stroke length (horizontal), mm (in.)	±17 (±0.67)
Remote control, max value, Kohm	2.5
Max current over the start relay, A	5
Connection	straight 23-pin Burndy
Enclosure class	IP 23
Weight, excl wire reel, kg (lbs.)	17 (37.5)





Options & Accessories

Contact Tip M8 x 37 CuCrZr

- CO ₂ 1.0	0468 502 005
- CO ₂ 1.2, Mix/Ar 1.0	0468 502 007
- CO ₂ 1.4, Mix/Ar 1.2	0468 502 008
Gas nozzle, water-cooled	0449 903 101
Bent swan neck, 15°	0449 903 115
Bent swan neck, 30°	0449 903 130
Wire feed roller for aluminium	0449 903 031
Pressure roller for aluminium	0449 903 032

For Connection cables and Adaptor Kit, please see separate leaflet for Miggytrac 3000.



A2 Multitrac with A2 process controller PEI

The universal welding tractor for better welding economy

- Can be connected to most analogue, DC power supplies.
- Compact and efficient design allows for easy movement between workpieces.
- Self-propelled, four-wheel drive for stable, accurate and constant operation.
- A2 Process Controller PEI allows simple setting of travel speed, voltage and wire feed speed.
- Heavy-duty feed unit ensures an even and stable wire feed, for top quality, homogenous welding.
- Horizontal, vertical and rotary slides allow for quick adjustment of the nozzle into various positions.
- Reliable mechanical components, even under harsh working conditions.
- Easy to use control equipment with different start methods; direct start or scratch start.
- Wide range of accessories available.



Ordering information

A2 Multitrac SAW, PEI	0449 360 880
A2 Multitrac SAW Twin, PEI	0449 360 881
A2 Multitrac GMAW, PEI	0449 361 880
Sales Literature	XA00114220

Options & Accessories

Guide wheel bogie	0413 542 880
Idlling roller	0333 164 880
Guide bar 3 m (10 ft.)	0154 203 880
V-guide wheel	0333 098 881
V-wheeltrack in steel	0443 682 881
Loop for connection of two tractors	0334 680 881
Pilot lamp, laser diode	0821 440 880

Technical data	Single SAW	Twin SAW	GMAW
Wire diameters, mm (in.) - Steel - Stainless steel - Cored wire - Aluminium	1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32)	2x1.2-2.5 (2x(0.45x3/32)) 2x1.2-2.5 (2x(0.45x3/32)) -	0.8-1.6 (.030-1/16) 0.8-1.6 (.040-1/16) 1.2-2.4 (.045-3/32) 1.2-1.6 (.045-1/16)
Max wire feed speed, m/min (ipm)	9 (354)	9 (354)	16 (630)
Wire reel weight, kg (lbs.)	30 (66)	2x15 (2.2x33)	30 (66)
Flux hopper capacity, I (gal.)	6 (1.4)	6 (1.4)	-
Weight, excl wire and flux, kg (lbs.)	47 (103)	47 (103)	43 (95)
Permissible load 100%, A	800	800	600
Control voltage, V AC	42	42	42
Travel speed, m/min (ipm)	0.1-1.7 (4-67)	0.1-1.7 (4-67)	0.1-1.7 (4-67)
Linear slides stroke length, mm (in.)	90 (3.5)	90 (3.5)	90 (3.5)
Rotary slide setting angle	360°	360°	360°

A2 Multitrac with A2/A6 process controller PEK

The universal welding tractor for Submerged-arc Welding (SAW) and Gas Metal Arc Welding (GMAW)

- The A2 Multitrac with the A2/A6 process controller PEK is available for both the SAW and the GMAW method.
- If the SAW-version is chosen, the A2 Multitrac is capable of working equally well with either single or twin wire.
- The feed unit secures an even, stable wire-feed speed.
- Four-wheel drive ensures accurate travel speed.
- Digital control panel allows exact pre-set and control of welding parameters.
- The Multitrac is fully mobile and can easily be moved from one welding station to another. It can also be quickly set-up for different workpieces.
- Designed for use with LAF or TAF welding power sources.

Ordering information

A2 Multitrac A2TF (SAW), PEK	0461 233 880
A2 Multitrac A2TF (SAW Twin), PEK	0461 233 881
A2 Multitrac A2TG (GMAW), PEK	0461 234 880
A2 Multitrac A2TG (4WD, GMAW MTW 600), PEK	0451 234 881
Sales Literature SAW	XA00143220
Sales Literature GMAW	XA00143320

Options & Accessories

Guide wheel bogie	0413 542 880
Idlling roller	0333 164 880
Guide bar 3 m (10 ft.)	0154 203 880
V-guide wheel	0333 098 881
V-wheeltrack in steel	0443 682 881
Loop for connection of two tractors	0334 680 881
Pilot lamp, laser diode	0821 440 880





Technical data	Single SAW	Twin SAW	Single GMAW	GMAW with MTW 600
Wire diameters, mm (in.) - Steel - Stainless steel - Cored wire - Aluminium	1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32)	2x1.2-2.5 (2x(0.45x3/32)) 2x1.2-2.5 (2x(0.45x3/32)) -	0.8-1.6 (.030-1/16) 0.8-1.6 (.040-1/16) 1.2-2.4 (.045-3/32) 1.2-1.6 (.045-1/16)	1.0-1.6 (.039-1/16) 1.0-1.6 (.039-1/16) 1.0-2.4 (.039-3/32) 1.0-2.0 (.039-5/64)
Max wire feed speed, m/min (ipm)	9 (354)	9 (354)	16 (630)	25 (984)
Wire reel weight, kg (lbs.)	30 (66)	2x15 (2.2x33)	30 (66)	30 (66)
Flux hopper capacity, I (gal.)	6 (1.4)	6 (1.4)	-	-
Weight, excl wire and flux, kg (lbs.)	47 (103)	47 (103)	43 (95)	43 (95)
Permissible load 100%, A	800	800	600	600
Control voltage, V AC	42	42	42	42
Travel speed, m/min (ipm)	0.1-1.7 (4-67)	0.1-1.7 (4-67)	0.1-1.7 (4-67)	0.1-1.7 (4-67)
Linear slides stroke length, mm (in.)	90 (3.5)	90 (3.5)	90 (3.5)	90 (3.5)
Rotary slide setting angle	360°	360°	360°	360°



A2 Tripletrac A2TF

The superb welding tractor for internal circumferential welding

- For increased productivity and quality.
- Ideal for internal circumferential welding of large cylindrical objects that are rotating on a turning roll system.
- Heavy-duty feed unit secures even and stable wire feed for top quality, homogenous welds.
- Delivered with either the digital A2-A6 PEK or the analogue A2 PEI process controller.
- Unique steering system allows operator to simultaneously adjust the wheel and torch position for accurate and effortless seam tracking.
- Control equipment is easy to use and requires minimal training.
- Choose between start methods, burn-back times and other settings.

Ordering information

A2 Tripletrac with PEK	0461 236 880
A2 Tripletrac with PEI	0449 430 881
Sales Literature	XA00143520

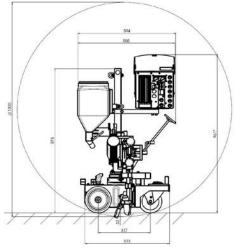
Options & Accessories

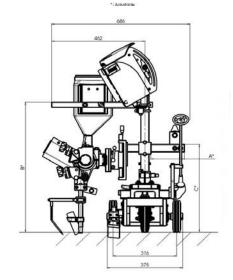
Pilot lamp, laser diode	0821 440 880
Utility light, incl transf. and 50 m (164 ft.) cable	0449 443 880
Flux recovery unit OPC	0148 140 880
Bracket suction	0332 947 880
Flux hopper of silumin alloy	0413 315 881
Concentric flux feeding funnel	
(included in the A2 Tripletrac)	0145 221 881
Contact tube, bent	0413 511 001
Wire reel, plastic 30 kg (66 lbs.)	0153 872 880
Wire reel, steel, fixed width	0416 492 880
Wire reel, steel, flexible width	0449 125 880
Wire reel, steel, Ø 220 mm (8.6)	0671 164 080

Technical data

Wire diameters, mm (in.) - Steel - Stainless steel - Cored wire	1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32)
Max wire feed speed, m/min (ipm)	9 (354)
Wire reel weight, kg (lbs.), W	30 (66)
Flux hopper capacity, I (gal.)	6 (1.4)
Weight, excl. wire and flux, kg (lbs.)	47 (103)
Permissible load 100%, A	800
Control voltage, V AC	42
Travel speed, m/min (ipm)	0.1-1.7 (4-67)
Linear slides stroke length, mm (in.)	90 (3.5)
Rotary slide setting angle	360°
Max inclination for the tractor	5°







A6 Mastertrac A6TF (SAW)

For efficient Submerged-arc Welding

- Self-propelled, four-wheel drive automatic welding machine.
- Easy to move with quick set-up for different workpieces.
- Suitable for heavy production welding with capacity for up to 6 mm (0.24 inch) wire using 1500A direct or alternating current.
- Designed for use with LAF or TAF welding power sources.
- Three different designs:

Single: available with standard or high speed motor

Twin-Arc: with a simple add-on for the extra wire, you can convert an A6 Single Mastertrac into a highly productive automatic Twinarc welder for fillet and butt welds without the use of an extra machine or power source.

Tandem: the high deposition rate using a multi-electrode system increases productivity substantially. By selecting different combinations of direct and alternating currents, the A6 Tandem Mastertrac can handle any type of welding work resulting in increased profitability.

- Weld mild steel and aluminium solid or cored wire by modifying an A6 Single Mastertrac with an easy conversion kit for Gas metal arc welding (GMAW).
- Pre-set and control of welding parameters with the A2-A6
 Process Controller PEK a digital control system with display menus; 255 different weld sets can be stored.

Ordering information

A6 Mastertrac A6TF (SAW)	0461 235 880
A6 Mastertrac A6TF (SAW Twin)	0461 235 881
A6 Mastertrac A6TF (SAW, high speed)	0461 235 890
A6 Mastertrac A6TF (SAW, Twin, high-speed)	0461 235 891
A6 Mastertrac Tandem A6TF (SAW, AC/DC 1500)	0461 232 882
Sales Literature	XA00143420



Options & Accessories

Contact equipment heavy Twin Arc, compl.	0334 291 889
Wire reel, plastic 30 kg (66 lbs.)	0153 872 880
Wire reel, steel 30 kg (66 lbs.)	0416 492 880
Wire reel, steel, flexible width	0449 125 880
Brake hub extra	0146 967 880
Rebuilding kit GMAW	0334 299 890
Strip cladding kit	0155 972 880
Flux hopper holder for strip cladding	0148 107 003
Wire reel, steel for strip cladding	
30-100 mm (1.2-4.0 in.)	0671 161 880
Flux recovery nozzle, strip cladding	0156 025 001
Flux funnel	0254 900 880
Insert, extended	0254 900 301
Angular slide	0671 171 580
Pilot lamp, laser diode	0821 440 880
Flux recovery unit OPC	0148 140 880
Bracket suction	0332 947 880
Idler rollers (2 per automat)	0333 164 880
Guide wheel, fillet	0671 125 780
Magnet guide rail, 3 m (10 ft.)	0154 203 880

Carbon arc gouging

Rebuilding kit

(use with carbon electrodes Ø 8.9-12.7) 0153 592 880

Technical data	Single SAW	Single GMAW	Twin SAW	Tandem SAW
Permissible load 100%, A	1500	600	1500	2x1500
Wire diameter, mm (in.)	3.0-6.0 (1/8-1/4)	1.0-3.2 (0.045-1/8)	2x2.0-3.0 (2x3/32-1/8)	2x3.0-6.0 (2x1/8-1/4)
Wire feed speed, m/min (ipm)	0.2-4.0 (8-157.5)	0.8-16.6 (31.5-653.5)	0.2-4.0 (8-157.5)	0.2-4.0 (8-157.5)
Wire feed speed high, m/min (ipm)	0.4-8.0 (16-315)	-	0.4-8.0 (16-315)	-
Travel speed, m/min (ipm)	0.1-2.0 (4-79)	0.1-2.0 (4-79)	0.1-2.0 (4-79)	0.1-2.0 (4-79)
Control voltage, V AC	42	42	42	42
Wire reel weight, kg (lbs.)	30 (66)	30 (66)	2x30 (2x66)	2x30 (2x66)
Flux hopper capacity, I (gal.)	10 (2.6)	-	10 (2.6)	10 (2.6)
Weight excl wire and flux, kg (lbs.)	110 (242.5)	100 (220.5)	110 (242.5)	158 (348)



A6-DK

The portal welding machine

- Works with a single wire on each head.
- Each weld head is controlled by the A2-A6 PEK process controller and LAF (DC) or TAF (AC) power source.
- Ideal for simultaneous horizontal-vertical welding on both sides of a web or through panel.
- Straddles workpieces up to 800 mm (31 inch) tall and symmetrical profile widths of 400 mm (16 inch).
- Travels directly on a workpiece guided by a joint.
- Travel speed adjustable from 0.15-2.0 m/min (6-79 ipm).
- Store up to 10 I (2.6 gal.) of flux in the hopper.
- Each weld head is equipped with OPC flux recovery system.

Ordering information

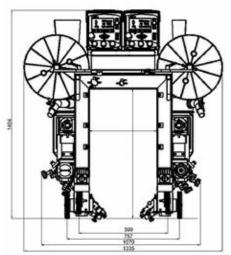
A6-DK SAW, single wire excl. wire reel, feed rollers and contact jaws *) 0461 237 901 Sales Literature XA00143620

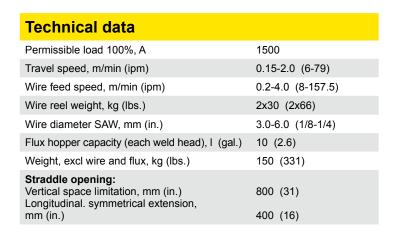
*) when contact equipment is excluded, feed rollers and contact jaws have to be ordered separately.

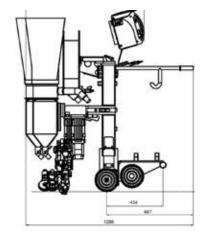
Options & Accessories

Wire reel, plastic, 30 kg (66 lbs.) 0153 872 880 Wire reel, steel, 30 kg (66 lbs.) 0416 492 880









Welding Heads

A2S Mini Master

A multi-purpose automatic welding system

- Versatile welding system for single wire SAW, twin wire SAW or GMAW.
- · Light-weight, compact design allows for greater flexibility.
- Modular design allows user to expand, integrate or modify the system quickly and easily.
- Uses A2-A6 PEK or A2 PEI process controller.
- Accurate, easy joint-tracking with manual or motorized slide system and manual PAV or automatic GMH joint tracking.
- The system attaches to any beam travelling carriage or Column & Boom system.



Ordering information

A2S Mini Master SAW Systems Incl A2-A6 Process controller PEK and wire equipment

With manual slides 90x90 mm	0449 170 900
With motorized slides 180x180 mm and PAV	0449 170 901
With motorized slides 180x180 mm and GMH	0449 170 902
Incl AO December 11 to DEL and wife a switness of	
Incl A2 Process controller PEI and wire equipment	
With manual slides 90x90 mm	0449 370 880
With motorized slides 180x180 mm and PAV	0449 370 881
With motorized slides 180x180 mm and GMH	0449 370 882

A2S Mini Master GMAW MTW (4WD) Systems	
Incl A2-A6 Process controller PEK and wire equipment	
With manual slides 90x90 mm	0449 181 900
With motorized slides 180x180 mm and PAV	0449 181 901
With motorized slides 180x180 mm and GMH	0449 181 902
Incl A2 Process controller PEI and wire equipment	
With manual slides 90x90 mm	0449 380 880
With motorized slides 180x180 mm and PAV	0449 380 881
With motorized slides 180x180 mm and GMH	0449 380 882
Sales Literature	XA00088820

Options & Accessories

Pilot lamp, laser diode (for PEK), 2 m cable Pilot lamp, laser diode (for PEK), 5 m cable Pilot lamp, laser diode (for PEK), 7 m cable Thin wire straightener, single wire	0821 440 880 0821 440 882 0821 440 883 0332 565 880
Gas handling equipment, GMAW only: Cooling unit OCE 2H, 220V AC 50/60 Hz Gas hose Water-cooling hose Arc shield	0414 191 881 0190 270 101 0190 315 104 0334 689 880
Optional equipment SAW:	
Flux recovery unit OPC	0148 140 880
Flux container, silumin alloy	0413 315 881
Concentric flux funnel	0145 221 881

Flux recovery unit OPC 0148 140 880 Flux container, silumin alloy 0413 315 881 Concentric flux funnel 0145 221 881 Contact tube, bent 0413 511 001 Wire reel, plastic, 30 kg (66 lbs.) 0153 872 880 Wire reel, steel, 30 kg (66 lbs.) 0416 492 880 Wire reel, steel, flexible width 0449 125 880 Wire reel, steel, Ø 220 mm (8.7 inch) 0671 164 080

For PEK:

Conversion kit, SAW to GMAW A2 (2WD) 0461 247 880 Conversion kit, SAW to GMAW MTW (4WD) 0461 248 880

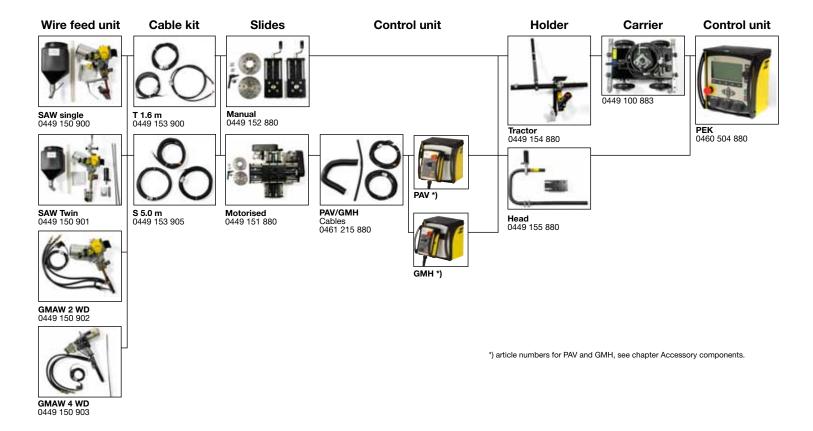
For PEI:

Conversion kit, SAW to GMAW 0413 526 881

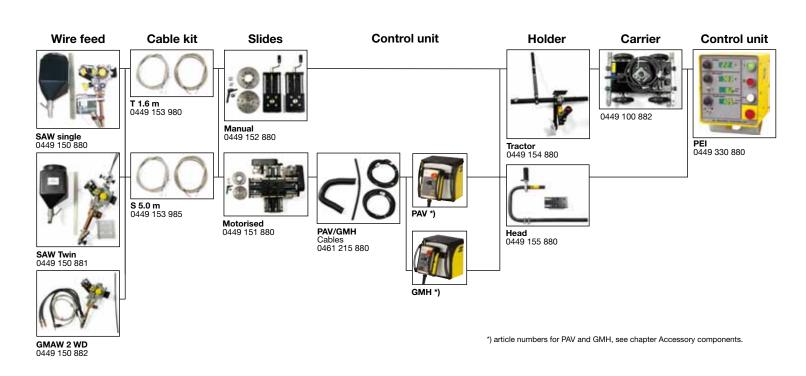
Technical data		Single wire SAW	Twin wire SAW	GMAW	GMAW MTW 600w
Wire diameter, mm (in.)	Steel Stainless Steel Cored wire Aluminium	1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32) 1.6-4.0 (1/16-5/32)	2x1.2-2.5 (2x.045-3/32) - - -	0.8-1.6 (.030-1/16) 0.8-1.6 (.030-1/16) 1.2-2.4 (.045-3/32) 1.2-1.6 (.045-1/16)	1.0-1.6 (.040-1/16) 1.0-1.6 (.040-1/16) 1.0-2.4 (.040-3/32) 1.0-2.0 (.040-5/64)
Max. wire feed speed, r	m/min (ipm)	9 (354)	9 (354)	16 (630)	25 (984)
Flux hopper capacity, I	(gal.)	6 (1.4)	6 (1.4)	-	-
Max. permissible load 1	00%, A	800	800	600	600
Control voltage, V AC		42	42	42	42
Linear slide stroke leng	th, mm (in.)	90 (3.5)	90 (3.5)	90 (3.5)	90 (3.5)
Rotary slide setting range	ge	360°	360°	360°	360°



A2 Component system Modularization - PEK



A2 Component system Modularization - PEI



A6S Arc Master

Flexibility as standard

- Flexibility, reliability and superior performance capability
- Comprehensive component and module system make process customization easy.
- A6 VEC motor for reliable and consistent wire feed.
- Accurate, easy manual PAV or automatic GMH joint tracking with manual slides or joystick-controlled motor-operated cross slides.
- Capable of heavy-duty gas metal arc welding (GMAW), single/twin wire submerged arc welding (SAW), as well as strip cladding and Synergic Cold Wire (SCW) welding with optional accessories.
- Uses A2-A6 PEK process controller for fast, accurate pre-setting of all parameters before welding starts.
- Feedback system ensures high and consistent welding quality saves time and material.
- The welding heads can be equipped with a standard wire feed unit (gear ratio 156:1) or with a high-speed wire feed unit (gear ratio 74:1).



Ordering information

Single wire SAW systems

Sales Literature

standard wire feed unit (gear ratio 156:1) With manual slides 210x210 mm 0449 270 900 With motorized slides 300x300 mm and PAV 0449 270 901 With motorized slides 300x300 mm and GMH 0449 270 902 high-speed wire feed unit (gear ratio 74:1) With manual slides 210x210 mm 0449 270 910 With motorized slides 300x300 mm and PAV 0449 270 911 With motorized slides 300x300 mm and GMH 0449 270 912 Twin-wire SAW system high-speed wire feed unit (gear ratio 74:1) With manual slides 210x210 mm 0449 271 910

With motorized slides 300x300 mm and PAV

With motorized slides 300x300 mm and GMH



Technical data	Ratio 156:1	Ratio 74:1
Max. wire feed speed, m/min (ipm)	0.2-4.0 (8-157)	0.4-8.0 (16-315)
Wire diameter, single, mm (in.)	3.0-6.0 (0.118-0.236)	1.6-4.0 (0.063-0.157)
Wire diameter, twin, mm (in.)	2x2.0-2x3.0 (2x0.079-2x0.118)	2x1.6-2x2.5 (2x0.063-2x0.098)
Tubular wire single, mm (in.)	3.0-4.0 (0.118-0.157)	1.6-4.0 (0.063-0.157)
Linear slide stroke length, mm (in.)	90 (3.5)	90 (3.5)
Rotary slide setting range Circular slide, crank operated Straightener	± 180° ± 45°	± 180° ± 45°
Max. permissible load, 100%, A	1500	1500

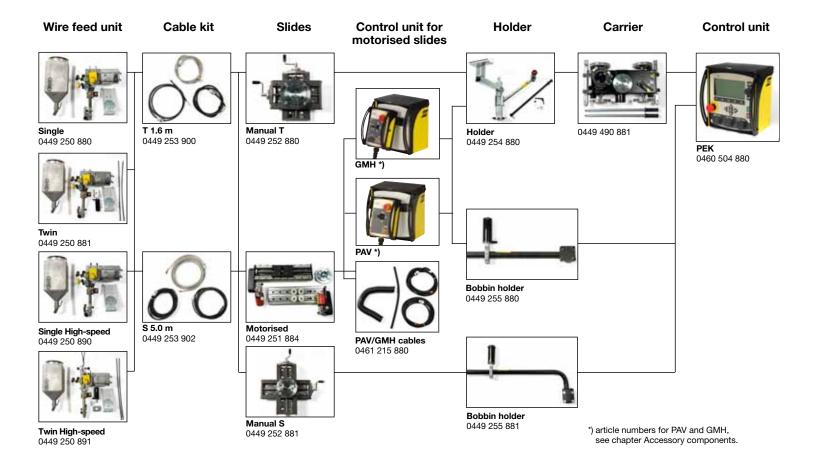
0449 271 911

0449 271 912

XA00088920



A6 Component system Modularization



A6S and A6DS Tandem welding heads

For optimum productivity

- · Suitable for heavy construction welding.
- Capable of welding DC/DC, DC/AC or AC/AC.
- Uses A2-A6 Process Controller PEK for quick and accurate programming of welding parameters for each torch.
- Feedback system gives high and consistent welding quality from start to finish, saving time and money.
- Versatile positioning through easy to use, complete slide as sembly for welding torch position, distance stick-out and angle on both leading and trailing torches.
- Enhance productivity by adding optional equipment such as Twin Wire and Synergic Cold Wire systems.
- Available in two basic versions, A6S Tandem Master and A6DS Tandem Master with several configurations to match specific safety, quality and productivity requirements.
- Welding heads can be equipped with a standard wire feed unit (gear ration 156:1) or with a high-speed wire feed unit (gear ratio 74:1).

Ordering information

A6S Tandem Master, standard (156:1)	0818 971 880
A6S Tandem Master, high-speed (74:1)	0818 971 881
A6DS Tandem Master, standard (156:1)	0818 970 880
A6DS Master, high-speed (74:1)	0818 970 881
Sales Literature	XA00119120



Options & Accessories

Twinkit (one per torch)	0809 934 882
GMH, joint tracking with remote, complete	0460 884 880
GMH, joint tracking with control panel, compl	0460 884 881
GMH, slide motor cables, 5.0 m (16 ft.)	0461 215 880
Laser lamp, 5 m cable (16 ft.)	0821 440 882
Laser lamp, 7 m cable (23 ft.)	0821 440 883
Bracket (straight) for wire	0334 318 880
Brake hub, for wire reel	0146 967 880
Wire reel, plastic, 30 kg (66 lbs.)	0153 872 880
Wire reel, steel, fixed width, 30 kg (66 lbs.)	0416 492 880
Wire reel, steel, flexible width, 30 kg (66 lbs.)	0449 125 880

Technical data (Basic components)	A6S Tandem Master	A6DS Tandem Master
A6 feed unit HD type for wire 3-6 mm (1/8-1/4 in.)	2 pcs	2 pcs
Horizontal motorized slide with double runners L=355 mm (14 in.)	1 pc	1 pc
Vertical motorized slide with double runners L=595 mm (23.4 in.)	1 pc	1 pc
PEK, process controller	2 pcs	2 pcs
Flux hopper, 10 I (2.3 gal.) incl bracket	1 pc	1 pc
Cable holder	1 pc	1 pc
Main bracket with mounting flange for cross slide assembly	1 pc (0810 786 880)	-
Swivel bracket for rotating head 90°	1 pc (0334 549 880)	1 pc (0809 873 880)
Welding head	2 pcs	2 pcs
Each welding head has: A6 manual slide L=90 mm A6 circular slide Insulators	1 pc (0154 465 880) 1 pc (0671 171 580) 4 pcs (0278 300 180)	1 pc (0154 465 880) 1 pc (0671 171 580) 4 pcs (0278 300 180)
Total weight (excl PEK, wire and flux) approx. kg (lbs)	215 (474)	190 (419)



A6S and A6DS Tandem welding heads

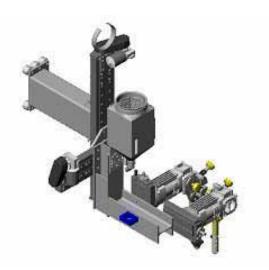
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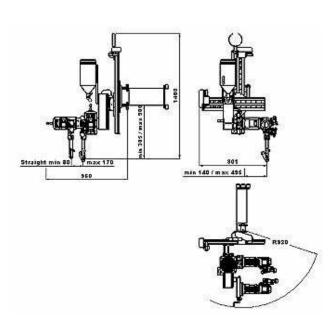
A6S Tandem Master

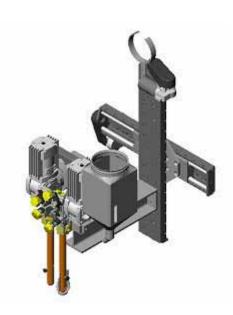
- Optimized for welding across multiple perpendicular axes and is key in the welding of cylindrical objects where both longitudinal and circumferential welding is required.
- Adjustable +90° interval turning bracket and cross slide.
- Automatic joint tracking keeps in track no matter which direction welding occurs.

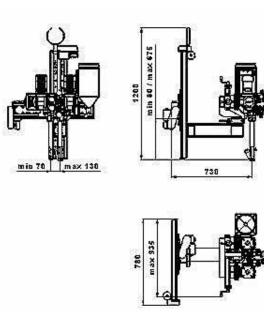
A6DS Tandem Master

- Optimized for welding in multiple directions and is key in the automated welding of long weld joints such as beams and girders.
- Adjustable ±90° interval turning bracket and fixed cross slide.
- Automatic joint tracking in any direction when integrated to ESAB column and boom M-model systems; simply rotate the head 180° and weld in the reverse direction.









A6S Compact welding heads for internal welding

For excellent welding results

- For welding longitudinal and circumferential butt joints inside tubes
- Three versions available:

A6S Compact 300 for internal welding of tubes down to 300 mm (12 inch) inside diameter.

A6S Compact 500 for internal welding of tubes down to 500 mm (20 inch) inside diameter.

A6S Compact 700 for internal welding of tubes down to 700 mm (27.5 inch) inside diameter.

- Equipped with reliable, VEC feed motor for superior weld performance.
- Supervise and adjust the head position via TV monitoring system - Optional.
- Use standard mini-cross slide assembly and PAV manual tracking system or GMH automatic joint tracking system to easily follow the joint - Optional.
- Add either the FFRS Basic/Super or FFRS 1200/3000 Flux Feed
 & Recovery System to optimize the welding process.

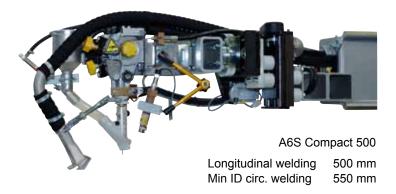
Ordering information

A6S Compact 300 Welding head, standard	0809 280 880
A6S Compact 300 Welding head, high-speed	0809 280 881
A6S Compact 500 Welding head, standard	0416 967 880
A6S Compact 500 Welding head, high-speed	0416 967 882
A6S Compact 700 Welding head, standard	0811 054 880
A6S Compact 700 Welding head, high-speed	0811 054 881
Sales Literature	XA00124620

Technical data	Compact 300
Wire diameters, mm (in.) - Steel - Stainless steel	3.0-4.0 (1/8-5/32) 3.2 (1/8)
Permissible load 100%, A	800
Control voltage, V AC	42
Travel speed, m/min (ipm)	0.1-1.7 (4-67)
Linear slides stroke range, mm (in.)	50 (2)
Rotary slide setting range	360°
Wire feed speed, standard, m/min (ipm)	0.2-4.0 (8-157)
Wire feed speed, high.speed, m/min (ipm)	0.4-8.0 (15.7-315)

For technical data for Compact 500 and 700, please contact your local ESAB representative.







Options & Accessories - Compact 300

Flux valve control kit, including	
solenoid valve and 5 m (16.4 ft.) air hose	0813 620 880
TV monitoring equipment	0811 176 880
Laser pointer	0811 177 880
Contact tips, wire size	
M12, 3.0 mm (7/64 in.)	0154 623 005
M12, 3.2 mm (1/8 in.)	0154 623 004
M12, 4.0 mm (5/32 in.)	0154 623 003
Feed rollers, wire size	
3.0-3.2 mm (1/8 in.)	0218 510 298
4.0 mm (5/32 in.)	0218 510 286



A6S SAW strip cladding head

For surfacing with high alloyed materials

- Used in combination with standard A6S Arc Master welding head.
- Provides an economical solution for surfacing with high alloyed materials such as stainless steel or nickel-based alloys.
- Choose a wider variety of parent materials and consumables.
- Stainless steel cladding is widely used in production of components where additional strength or corrosion resistance is required.
- Welding head can be fitted with electrode strips as wide as 30-100 mm (1.2-4.0 inch) and as thick as 0.5 mm (0.02 inch).

Ordering information

Strip cladding kit (for use with A6T SAW Tractor or A6S Arc Master HD) Sales Literature

0155 972 880 XA00101020

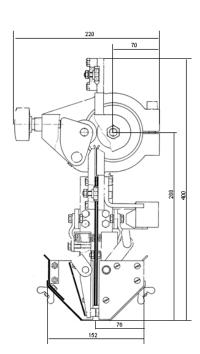
Options & Accessories

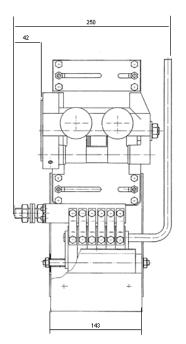
Reel holder (not to be used with motor-operated cross slide)

Wire reel, steel

Suction nozzle, flux

0417 636 880
0416 492 880
0156 025 001







ESW - Electroslag welding - is a method of strip cladding, but differs from SAW strip cladding in that the arc is created between the electrode and the workpiece.

The welding flux that is put into the joint melts and a slag pool is produced, which then increases in depth.

When the temperature of the slag and its conductive capacity thereby increases, the arc is extinguished and the welding current is conducted via the molten slag where the necessary welding energy is produced through resistance.

This method can be used for joining thicknesses of 25 mm (1 in.) and above.

Contact ESAB for Options & Accessories and Technical Data for the ESW Welding Head.

Technical data	
Max. welding current at 100% duty cycle, A	1500
Feed roller diameter, mm (in.)	50 (2.0)
Strip width, mm (in.)	30-100 (1.2-4.0)
Strip thickness, mm (in.)	0.5 (0.02)
Strip feed speed	see sales literature for A6 Mastertrac, (XA00109420) or A6S Arc Master (XA00088920)

Column & Booms

CaB Systems

Cost efficient and flexible weld mechanization

- Modular design concept allows total customization using standard components.
- Large selection of available components to integrate for a custom solution:
- Any A2 or A6 weld head
- A2-A6 Process Controller PEK with ESAB DC or AC power sources
 - · ESAB turning rolls and positioners
 - · ESAB flux feeding and recovery systems
 - · Monitoring systems and cameras
 - Four basic station configurations, suitable for most standard applications.
- Three different sizes; 300, 460 and 600 (number refers to boom profile height (mm) which determines working range and load capability).
- Choose from stationary or mobile, rail-travelling carriage systems.
- Versatile to respond to any automated welding demand.



Standard CaB sizes

The three different sizes 300, 460 and 600 are the beam height dimensions of the boom in millimeters. Each boom size has a corresponding column. The different sizes are not only limited in where it can fit, but also how far the boom can extend and how much load that can be put on.

CaB 300S / 460S Standard format - exceptional economy

- Conventional column and boom with a movable boom and the welding head mounted at the end of the boom.
- Standard mechanical performance, with cable support.
- Options like camera system, pulse encoder-regulated speed and flux control.
- The CaB 300S have a working range of 3 to 5 m (10 to 16.5 ft.) both vertically and horizontally.
- The CaB 460S have a working range of 5 to 7 m (16.5 to 23 ft.) both vertically and horizontally.



Basic Station 1 - Standard format

Conventional Column and boom, with a movable boom and welding head at boom end. Welding equipment can be positioned along four axes.

Column & Booms



CaB Systems

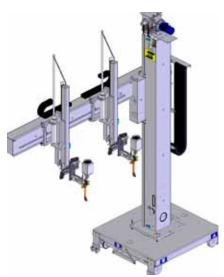
Cont

CaB 300M / 460M / 600M Modular format - extended functionality

- A modular range of column and booms, available in three load sizes.
- Standard mechanical performance, including cable chains for the boom motions.
- The welding head is mounted at the front end of the boom.
- More than 20 options fully integrated, such as tandem welding, shift function, transport speed etc.
- Due to modularity and the fixed configuration possibilities the lead times for delivery can be kept at a minimum.

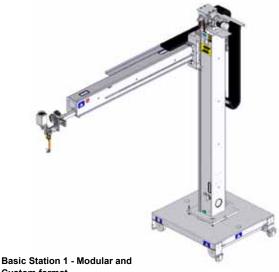
CaB 300C / 460C / 600C **Custom format - special capabilities**

- A customized range of welding column and booms for different customer requirements and applications.
- · Loading capacities and working strokes for utmost accessibility to the welding joints.
- Based on the modular CaB range, solutions to meet the most demanding request can be achieved.
- Welding methods as TIG, MIG and SAW cladding as well as Nar row Gap can be chosen on customized stations.



Basic Station 3 - Custom format

Side-boom manipulator with horizontally fixed boom, supporting one or two welding heads. This welding station, which offers flexible movement, is the basic unit for welding girders and profiles and for joining plates and sections.



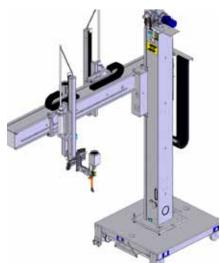
Custom format

Conventional Column and boom, with a movable boom and welding head at boom end. Welding equipment can be positioned along four axes. Cable chains are included.



Basic Station 2 - Custom format

Conventional Column and boom, with a movable boom and welding head at boom end combined with a boom-carriage-mounted welding head (not CaB 300).



Basic Station 4 - Custom format

Side-boom manipulator with double-track boom. Welding heads mounted on either side of the boom. The boom carriages can be individually controlled by the joint tracking systems, on separate tracks. Ideal for transversal double-fillet welding of stiffeners.

CaB Systems

Technical data CaB 300S and CaB 300M

Technical data - Column		CaB 300S / 3	300M
Effective working range, m (ft.)	3 (10)	4 (13)	5 (16.5)
Max. boom height A , mm (ft.) using movable carriage, min mm (ft.)	4070 (13) 930 (3)	5070 (16.5) 930 (3)	6070 (20) 930 (3)
Max. boom height B , mm (ft.) using concrete stand, min mm (ft.)	3955 (15.6) 815 (2.67)	4955 (19.5) 815 (2.67)	5955 (23.5) 815 (2.67)
Max. boom height C , mm (ft.) using stationary foot plate, min mm (ft.)	3750 (14.7) 610 (2.4)	4750 (18.7) 610 (2.4)	5750 (22.6) 610 (2.4)
Total height D using movable carriage, mm (ft.)	5170 (17)	6170 (20)	7170 (23.5)
Total height E using concrete stand, mm (ft.)	5055 (16.5)	6055 (20)	7055 (23)
Total height F using stationary foot plate, mm (ft.)	4850 (16)	5850 (19)	6850 (22.5)
Lifting speed, m/min (ipm)	0.7 (27.5)	0.7 (27.5)	0.7 (27.5)
Max total load on column platform, kg (lbs)	600 (1320)	600 (1320)	600 (1320)

Technical data - Boom			
Extension G , max mm (ft.) min mm (ft.)	3580 (11.75) 540 (1.77)	4580 (15) 540 (1.77)	5580 (18) 540 (1.77)
Permissible loads: total, max kg (lbs.) one end, max kg (lbs.)	300 (660) 240 (530)	220 (485) 150 (330)	150 (330) 75 (165)
Cross-sectional diameter H, mm (ft.)	325 (13)	325 (13)	325 (13)
Welding speed, m/min (ipm)	0.1-2.0 (4-79)	0.1-2.0 (4-79)	0.1-2.0 (4-79)
Transport speed, m/min (ipm)	2.0 (79)	2.0 (79)	2.0 (79)

Technical data - Rail carriage				
Track width L, inside to inside, mm (in.)	1730 (68.11)			
Width x length, mm (in.)	2060x2330 (81.1x91.7)			
Height I, mm (in.)	365 (14.37)			
Welding speed, m/min (ipm)	0.1-2.0 (4-79)			
Transport speed, m/min (ipm)	2.0 (79)			
Total weight, kg (lbs.)	1670 (3681)			

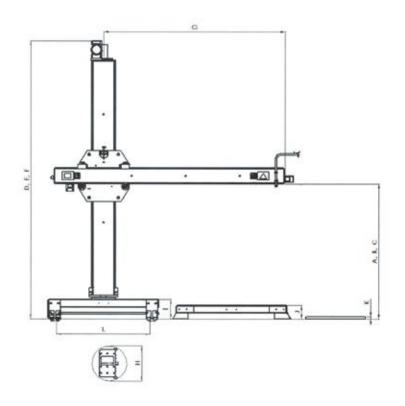
Welding speed, m/min (ipm)	0.1-2.0 (4-79)	
Transport speed, m/min (ipm)	2.0 (79)	
Total weight, kg (lbs.)	1670 (3681)	
Tackwinel data Can		
Technical data - Con	crete stand	
Width x length, mm (in.)	2060x2100 (81.1x82.7)	

Technical data - Foo	t plate
Width x length, mm (in.)	1100x1100 (43.3x43.3)
Height K, mm (in.)	40 (1.57)

250 (9.84)

350 (772)

1550 (3417)



Height J, mm (in.)

Total weight, kg (lbs.)

Total weight, kg (lbs.)



CaB Systems

Technical data CaB 460S and CaB 460M

Technical data - Column	CaB 460M only	CaB 460S CaB 460M	CaB 460S CaB 460M	CaB 460S CaB 460M
Effective working range, m (ft.)	4 (13)	5 (16.5)	6 (20)	7 (23)
Max. boom height A , mm (ft.) using movable carriage, min mm (ft.)	4950 (16) 950 (3.12)	5950 (19.5) 950 (3.12)	6950 (23) 950 (3.12)	7950 (26.08) 950 (3.12)
Max. boom height B , mm (ft.) using concrete stand, min mm (ft.)	4845 (16) 845 (2.77)	5845 (19) 845 (2.77)	6845 (22.5) 845 (2.77)	7845 (25,74) 845 (2.77)
Max. boom height C , mm (ft.) using stationary foot plate, min mm (ft.)	4510 (15) 510 (1.6)	5510 (18) 510 (1.6)	6510 (21.5) 510 (1.6)	7510 (24.64) 510 (1.6)
Total height D using movable carriage, mm (ft.)	6275 (20.5)	7275 (24)	8275 (27)	9275 (30.43)
Total height E using concrete stand, mm (ft.)	6170 (21)	7170 (23.5)	8170 (27)	9170 (30)
Total height F using stationary foot plate, mm (ft.)	5835 (20)	6835 (22.5)	7835 (25.5)	8835 (29)
Lifting speed, m/min (ipm)	2.0 (79)	2.0 (79)	2.0 (79)	2.0 (79)
Max total load on column platform, kg (lbs)	1500 (3300)	1500 (3300)	1500 (3300)	1500 (3300)
Technical data - Boom				
Extension G , max mm (ft.) min mm (ft.)	4715 (15.47) 715 (2.35)	5715 (18.75) 715 (2.35)	6715 (22.03) 715 (2.35)	7715 (25.31) 715 (2.35)
Permissible loads: total, max kg (lbs.) one end, max kg (lbs.)	1100 (2423) 550 (1211)	1050 (2313) 450 (1211)	1000 (2203) 350 (1211)	950 (2094) 150 (331)
Cross-sectional diameter H , mm (ft.)	630 (25)	630 (25)	630 (25)	630 (25)
Welding speed, m/min (ipm)	0.1-2.0 (4-79)	0.1-2.0 (4-79)	0.1-2.0 (4-79)	0.1-2.0 (4-79)
Transport speed, m/min (ipm)	2.0 (79)	2.0 (79)	2.0 (79)	2.0 (79)

Technical data - Rail carriage

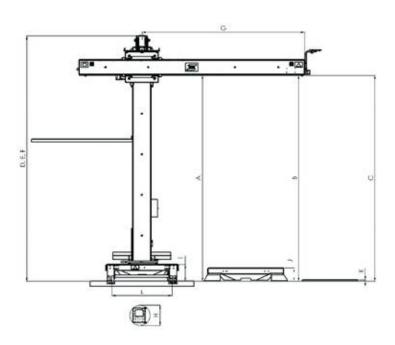
Track width L , inside to inside, mm (in.)	1730 (68.11)
Width x length, mm (in.)	2100x2380 (82.7x93.7)
Height I, mm (in.)	485 (19.1)
Welding speed, m/min (ipm)	0.1-2.0 (4-79)
Transport speed, m/min (ipm)	2.0 (79)
Total weight, kg (lbs.)	2860 (6305)

Technical data - Concrete stand

Width x length, mm (in.)	2100x2410 (82.7x94.9)
Height J, mm (in.)	380 (14.96)
Total weight, kg (lbs.)	2900 (6393)

Technical data - Foot plate

Width x length, mm (in.)	1600x1600 (63x63)
Height K, mm (in.)	40 (1.57)
Total weight, kg (lbs.)	505 (1113)



CaB SystemsTechnical data CaB 600M

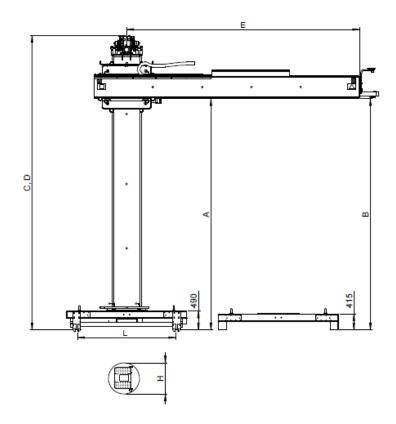
Technical data - Column	CaB 600M				
Effective working range, m (ft.)	6 (20)	7 (23)	8 (26)	9 (29.5)	10 (33)
Max. boom height A , mm (ft.) using movable carriage, min mm (ft.)	7025 (276.6) 1075 (42.3)	8025 (316) 1075 (42.3)	9025 (355.3) 1075 (42.3)	10025 (395) 1075 (42.3)	11025 (434) 1075 (42.3)
Max. boom height B , mm (ft.) using concrete stand, min mm (ft.)	6950 (22.8) 1000 (3.3)	7950 (26.1) (1000 (3.3)	8950 (29.4) 1000 (3.3)	9950 (32.6) 1000 (3.3)	10950 (35.9) 1000 (3.3)
Max. boom height C , mm (ft.) using stationary foot plate, min mm (ft.)	8585 (28.2)	9585 (31.4)	10585 (34.7)	11585 (38)	12585 (41.3)
Total height D using movable carriage, mm (ft.)	8510 (27.9)	9510 (31.2)	10510 (34.5)	11510 (37.8)	12510 (41)
Lifting speed, m/min (ipm)	2.0 (79)	2.0 (79)	2.0 (79)	2.0 (79)	2.0 (79)

Max total load on column platform, kg (lbs)

Technical data - Boom			
Extension E, max mm (ft.) min mm (ft.)	7000 (23) 1000 (3.3)	8000 (26) 1000 (3.3)	9000 (29.5) 1000 (3.3)
Permissible loads: total, max kg (lbs.) one end, max kg (lbs.)	1940 (4277) 550 (1213)	1830 (4034) 400 (882)	1700 (3748) 250 (551)
Cross-sectional diameter H, mm (ft.)	1000 (3.3)	1000 (3.3)	1000 (3.3)
Welding speed, m/min (ipm)	0.1-2.0 (4-79)	0.1-2.0 (4-79)	0.1-2.0 (4-79)
Transport speed, m/min (ipm)			
Total weight incl cables, kg (lbs.)	1050 (2315)	1165 (2568)	1280 (2822)

Technical data - Rail carriage 4WD				
Track width L , inside to inside, mm (in.)	2500 (98.4)			
Width x length, mm (in.)	3100x2600 (122x102)			
Height I, mm (in.)	490 (19.3)			
Welding speed, m/min (ipm)	0.1-2.0 (4-79)			
Transport speed, m/min (ipm)	2.0 (79)			
Total weight, kg (lbs.)	4800 (10582)			

Technical data - Concrete stand		
Width x length, mm (in.)	3100x2680 (122x105.5)	
Height J, mm (in.)	415 (16.3)	
Total weight, kg (lbs.)	4250 (9370)	



Column & Booms



Cab 2200

For small and medium sized objects

- Designed for light duty.
- Smooth 360° lockable rotation.
- Linear guidings for smooth movement which makes it ideal for the gas metal arc welding (GMAW), gas tungsten arc welding (GTAW) and submerged arc welding (SAW) processes.
- Cable chain on column and boom.
- Movable carriage or fixed stand.
- IP 55 pendant control station using low voltage on the generous 10 m (33 ft.) cable.
- Anti-fall device and limit switches for all motions.
- Pay load of 70 kg (154 lbs.)

Ordering information

CaB 2200, manual carriage CaB 2200, fixed stand Sales Literature 0370 250 600 0370 250 605 XA00144220



Technical data	
Mains supply, V	230/380/400/440
Frequency, Hz	50/60, 3-phase
Vertical speed, mm/min (ipm)	600 (23.6)
Boom speed, mm/min (ipm)	0-2050 (0-80.7)
Rotation	Manual
Electrical panel	IP55
Boom height max (a), mm (in.) Boom height min (a), mm (in.)	2500 (98.4) 450 (17.7)
Boom height max (b), mm (in.)	2700 (106.3)
Boom extension max (c), mm (in.) Boom extension min (c), mm (in.)	2500 (98.4) 490 (19.3)
Boom extension max (d), mm (in.) Boom extension min (d), mm (in.)	2500 (98.4) 490 (19.3)
Wheel centre distance (e), mm (in.)	1600 (63)
Axle centre distance (f), mm (in.)	1500 (59)
Height of column (a), mm (in.)	3200 (126)

CaB 44, 55, 66 and 77

- Designed and robustly build to withstand rugged work environments.
- Smooth 360° lockable rotation.
- All vertical and horizontal guidings are precisely machined for smooth movement.
- Solid state inverter for variable speed of horizontal travel and travel carriage.
- Work gearbox for vertical travel via AC motor, complete with brake for added safety.
- High tensile roller chain used for vertical travel with the addition of a counter balance system with the column that provides smooth, effortless travel.
- IP 55 pendant control station using low voltage on the generous 10 m (33 ft.) cable.
- Anti-fall device and limit switches for all motions.
- Pay load of 420 kg (924 lbs.)



CaB 44, motorized carriage	0370 250 601
CaB 55. motorized carriage	0370 250 602
CaB 66, motorized carriage	0370 250 603
CaB 77, motorized carriage	0370 250 604
CaB 44, fixed stand	0370 250 606
CaB 55, fixed stand	0370 250 607
CaB 66, fixed stand	0370 250 608
CaB 77, fixed stand	0370 250 609
Sales Literature	XA00144120

Technical data	
Control voltage, V DC	42
Max ambient temperature	80°C (176°F)
Axial play, runner, mm (in.)	0.1 (0.004)
Max. torque-free load, kg (lbs.)	150 (330)



Options & Accessories

Camera system	0370 250 616
Spools at rear end of the boom	0370 250 617
Motorized rotation	0370 250 618
Tandem platform	0370 250 619
0.5 m boom section	0370 250 621
0.5 m column section	0370 250 622





Telbo™ 6500 and Telbo™ 9500

Telescopic boom

- Save valuable workshop space with the unique 3-section telescope-like retraction of the boom, securing operator safety.
- Outstanding reach-out with heavy loading capacity to ensure superior productivity and weld quality.
- Ideal for internal/external circumferential welding of windtower applications.
- Flexible production, no matter if mixed sizes and plate thicknesses are to be welded productive results are obvious.
- Loaded with 1000 kg (2204 lbs.) Flux BigBag and 1000 kg Wire EcoCoils, welding is continuously performed and costly dwell times are minimized.





Ordering information

For ordering information, please contact nearest ESAB representative.

Features

- PLC control system for synchronized boom motion
- Automatic "Wind Back" of wire during boom retraction
- Telescopic wire guides
- Remote controlled flux nozzle (option)
- Remote controlled height adjustm. of joint tracking sensor (option)
- Saving in factory-floor foot print
- Increased workshop safety
- Enables flexible production
- "Big Pack" handling concepts (option)
- Camera supervision system (option)

Applications

- Power generation, especially wind tower manufacturing lines.
- Pipeline, pipe mill contactors.
- General fabrication (small workshops with limited space).

Technical data	Telbo™ 6500	Telbo™ 9500
Effective work range, m (ft.)	6.5 (21.33)	9.5 (31.17)
Max extension, m (ft.) *)	8.0 (26.25)	12.5 (41)
Max load at boom end, kg (lbs.)	300 (661.4)	500 (1102)
Welding process	SAW / GMAW	SAW
Welding heads	A6	A6 SAW, Single/Tandem and Tandem/Twin
Control system	PLC / GMH	PLC / GMH
Operator seat	No	Yes

^{*)} Measured from column centre.

Carriers & Gantries

Mechtrac 1730/2100/2500/3000

For mechanized gantry automation

- Fast and flexible way to increase productivity.
- Equipped with A2-A6 PEK process controller and A2 welding equipment for mechanized submerged arc welding (SAW) or gas metal arc welding (GMAW).
- Weld various profiles such as I-, T- or L-beams, straight columns or tapered columns.
- Available in four versions (width of gantry): 1730 mm (68 in.), 2100 mm (83 in.), 2500 mm (94 in.) or 3000 mm (118 in.).
- All versions have standard gantry leg height of 1500 mm (59 in.).
- Floor mounted rail delivered in standard lengths of 3 m (118 in.) can be easily extended.
- Dual-drive motors are standard.
- Gantry can support a maximum weight of 220 kg (485 lbs.) up to two A2 welding heads, complete with GMH joint tracking and OPC flux recovery systems.



Mechtrac equipped with A2 welding heads, process controller PEK and power sources LAF 631

Ordering information

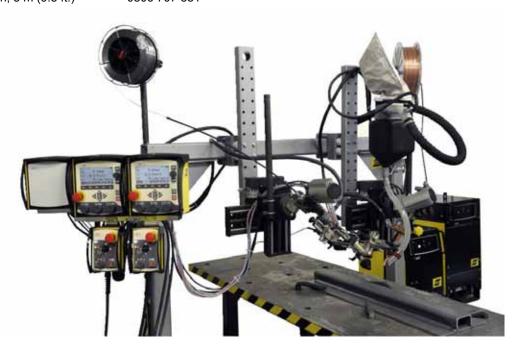
0809 670 881
0809 670 882
0809 670 883
0809 670 884
XA00101220

echnical data		
ravel speed, m/min (ipm)	0.2-1.9	(8-7

Maximum load, kg (lbs.)	220 (485)
Standard rail length, m (ft.)	3 (9.8)
Gantry width mm (in)	1730-3000 (68-118)

Options & Accessories

Travelling rail, 3 m (9.8 ft.) 0806 707 880
Travelling rail, extension, 3 m (9.8 ft.) 0806 707 881



Carriers and Gantries



Gantrac

Highly stabilized manipulation of welding torches with optimized welding results

- Rigid legs supported by encoder-controlled DC-driven bogie carriages as well as a cross beam to ensure uniform, stable welding speed.
- The gantry beam is equipped with guides and a rack on one or both sides for motorized welding carriages.
- The well-proven A6 welding heads are mounted on heavy duty slides with comprehensive working strokes to obtain good access to the workpieces.
- Incorporates the A2-A6 Process Controller PEK, equipped with GMH automatic joint tracking to control the vertical and horizontal axes.
- Submerged arc welding is the ideal method for the applications intended for this station.
- The flux handling equipment can be operated conveniently, without time-waisting interruptions. At the same time as flux consumption is reduced, the workplace is kept clean and free from flux spillage.
- The welding heads can be turned ±180 degrees for welding in both X-directions as well as 90 degrees for welding in Y-direction across the beam.
- A large number of positioning axes permit flexible welding production.



Ordering information

For ordering information, please contact your nearest ESAB representative.

Walltrac

Minimal floor working area thanks to the single rail/wall support

- For production of various beam structures, such as I/H and box beams of tapered and non-symmetrical design, stiffener sections and the joining of plates and sections.
- Longitudinal and transverse welding procedures.
- Uses A6 welding heads and A2-A6 Process Controller PEK.
- Automatic joint tracking GMH controls the vertical and horizontal axes, i.e. the slides and the carriages, to safeguard the superior weld quality.
- A large number of positioning axes permit flexible welding production.



AccessoryComponents

Beam Travelling Carriage

To be used with ESAB A2 and A6 welding heads

- Ideal solution for submerged arc welding (SAW) or gas metal arc welding (GMAW) applications requiring beam mounted carriage.
- Can be fitted with any A2 or A6 welding head.
- For longitudinal welding or welding of circumferential workpieces.
- Place the carriage on either a standard I-beam IPE 300 or specially machined I-beam (contact ESAB for details).
- Fast and easy pre-programming of travel motion and welding parameters using the A2-A6 process controller PEK.

Ordering information

Beam travelling carriage	0457 897 881
Sales Literature	XA00091920

Options & Accessories

Mounting bracket for Tandem head	0458 026 001
Track in lengths of 3000 mm (9.8 ft.)	0145 282 880
Required number of floor columns: 2	
Track in lengths of 4500 mm (14.8 ft.)	0145 282 881
Required number of floor columns: 3	
Track in lengths of 6000 mm (19.7 ft.)	0145 282 882
Required number of floor columns: 3	
Track in lengths of 8000 mm (26 ft.)	0145 282 883
Required number of floor columns: 4	



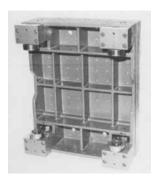
Technical data

Travel speed beam carriage, cm/min (ipm)	6-200 (2-79)
Weight carriage, kg (lbs.)	60 (132)

MBVA 330 and 550

Beam welding carriage

- Heavy side beam carriage, suitable for multiple submergedarc welding heads and most options available on column and booms.
- Cross beams available up to 1.2 m (4 ft.), capacity up to 1.4 ton.
- VEC motor with gear, rack and pinion, for powerful, consistent carriage travel.
- Different travel units for speeds to match process.



Ordering information

MBVA 330 carriage	0150 765 880
MBVA 550 carriage	0150 901 880
Sales Literature	XA00105120

Options & Accessories

Cable, length 1.5-50 m (5-164 ft.)	contact ESAB
Travel unit, speed range 3-80 cm/min (1.2-32 ipm) Travel unit, speed range 11-125 cm/min (4-49 ipm) Travel unit, speed range 14-250 cm/min (5.5-98 ipm) Travel unit, speed range 37-1500 cm/min (14.5-590 ipm) Travel unit, speed range 27-530 cm/min (11-208 ipm)	0150 943 880 0150 943 881 0150 943 882 0150 943 883 0150 943 884
Beam 330, 300 cm (118 in.), 240 kg (529 lbs.) Beam 330, 450 cm (177 in.), 480 kg (1058 lbs.) Beam 330, 600 cm (236 in.), 720 kg (1587 lbs.) Beam 330, 750 cm (295 in.), 960 kg (2116 lbs.) Beam 330, 900 cm (354 in.), 1000 kg (2204 lbs.) Beam 330, 1050 cm (413 in.), 1200 kg (2645.5 lbs.) Beam 330, 1200 cm (472 in.), 1420 kg (3130.5 lbs.)	0803 348 880 0803 348 881 0803 348 882 0803 348 883 0803 348 884 0803 348 885 0803 348 886
Beam 550, 300 cm (118 in.) Beam 550, 450 cm (177 in.) Beam 550, 600 cm (236 in.) Beam 550, 800 cm (315 in.) Beam 550, 1200 cm (472 in.)	0321 527 880 0321 527 881 0321 527 882 0321 527 883 0321 527 884

Technical data	MBVA 330	MBVA 550
Rated load, N (kp)	10000 (1000)	20000 (2000)
Rated moment, Nm (kpm)	3300 (330)	10000 (1000)
Weight, kg (lbs.)	95 (209)	275 (606)

Accessory Components



Servo Slide

Motorized slide for linear motion

- Heavy duty capacity with high precision slide for accurate and rapid joint tracking and positioning.
- Can be installed in vertical or horizontal positions setting lengths up to 1030 mm (41 in.) with a central point of attachment.
- Operates jointly with A2 or A6 components.
- Slides available from 60 mm (2.4 in.) to 1030 mm (41 in.) working range.
- Permissible load of 1500 N (337 lbf/ft.) in any mounting position.
- Maximum torque for vertical unit is 400 Nm (3540 lbf/in.);
 maximum torque for horizontal unit is 280 Nm (2480 lbf/in.).



Ordering information

Servo slide, 60 mm (2 in.)	0334 333 880
Servo slide, 120 mm (5 in.)	0334 333 881
Servo slide, 180 mm (7 in.)	0334 333 882
Servo slide, 240 mm (9 in.)	0334 333 883
Servo slide, 300 mm (12 in.)	0334 333 884
Servo slide, 420 mm (17 in.)	0334 333 885
Servo slide, 540 mm (21 in.)	0334 333 886
Servo slide, 730 mm (29 in.)	0334 333 887
Servo slide, 1030 mm (41 in.)	0334 333 888
Servo slide, 358 mm (14 in.), heavy duty	0416 190 880
Servo slide, 598 mm (23.5 in.), heavy duty	0416 190 884
Sales Literature	XA00032720

Options & Accessories

Connecting cable, 2 m (6.5 ft.)	0460 745 880
Connecting cable, 5 m (16.4 ft.)	0460 745 881
Connecting cable, 10 m (32.8 ft.)	0460 745 882

Technical data	
Control voltage, V DC	42
Max ambient temperature	80°C (176°F)
Axial play, runner, mm (in.)	0.1 (0.004)
Max. torque-free load, kg (lbs.)	150 (330)

Technical data	Slide 60 mm (2 in.)	Slide 120 mm (5 in.)	Slide 180 mm (7 in.)	Slide 240 mm (9 in.)	Slide 300 mm (12 in.)	Slide 420 mm (17 in.)	Slide 540 mm (21 in.)	Slide 730 mm (29 in.)	Slide 1030 mm (41 in.)
Total length, mm (in.)	305 (12)	365 (14)	425 (17)	485 (19)	545 (21.5)	665 (26)	785 (31)	1025 (40)	1385 (54.5)
Number of 60 mm indexings	3	4	5	6	7	9	11	14	21
Weight, kg (lbs.)	11.5 (25)	13.2 (29)	15 (33)	16.7 (37)	18.5 (41)	21.9 (48)	25.4 (56)	30.9 (68)	38.8 (85.5)

PAV and **GMH**

Joint Positioning and Tracking systems

- Simple and easy to use.
- Adapt for use with almost any type of welding joint.
- The PAV system is for manual joint tracking and the GMH system is for automatic joint tracking.
- The PAV and GMH work equally well with ESAB A2 or A6 welding systems.
- Motorized servo slides guarantee a reliable and accurate joint tracking.
- Both the PAV and GMH systems are available in three versions; with control panel on the front, with remote control or without control panel suitable for integration into customized solutions.
- The GMH automatic joint tracking system is designed for use in fillet and butt joints using sensor fingers.
- GMH compensates for irregularities in weld joint, tracks simple geometric shapes and avoids parallax problems.



Adjustable sun shield for better visibility for outdoor use

Ordering information

PAV without control panel	0460 502 880
PAV with control panel	0460 502 881
PAV with remote control	0460 697 880
GMH without control panel	0460 503 880
GMH with control panel	0460 503 881
GMH with remote control	0460 698 880
GMH system compl with remote control,	
sensor, sensor cable and mini cross saddle	0460 884 880
GMH system compl with control panel,	
sensor, sensor cable and mini cross saddle	0460 884 881
Sales Literature PAV	XA00139420
Sales Literature GMH	XA00139320

Technical data	
Control voltage, V AC, Hz	42, 50-60
Fuse, A	10
Max. welding current at 100% duty cycle, A	6
Armature voltage, V DC	40
Field voltage, V DC	60
Current limit, A	15
Dimensions, mm (inch)	246x235x273 (9.7x9.3x10.7)
Weight, kg (lbs.)	6 (13)
Enclosure class	IP23



GMH with and without remote control



PAV with and without remote control

Options & Accessories

Cable restraining bracket	0460 861 880
Motor cable, 5 m (16.4 ft.)	0460 745 881
Motor cable, 10 m (32.8 ft.)	0460 745 882
Motor cable, 19 m (62.3 ft.)	0460 745 884
Servo slides	0334 333 xxx
(see former page)	

For GMH only:

Sensor cable, 5 m (16.4 ft.)	0416 749 888
Sensor cable, 9 m (29.5 ft.)	0416 749 889
Sensor cable, 19 m (62.3 ft.)	0416 749 880
Sensor with finger	0416 688 880
Mini cross saddle + sensor support	0416 739 880
Remote control	0460 570 880
Protective rubber boot for sensor	0412 013 001
Standard finger	0146 586 001
Finger with ball	0416 719 001
Finger for heat exchange plates	0443 328 880
Finger for beam welding	0443 187 880
Intermediate transformer	0148 636 002

Accessory Components



AVPS

Automatic Laser Tracking Unit

- The AVPS (Active Vision Process Supervision) laser tracking system provides precise seam tracking to significantly increase productivity and minimize weld defects.
- The AVPS provides a very simple, operator friendly and affor dable system, while retaining the precision and flexibility available with an advanced laser vision system.
- It is especially suited for 3D hard automation applications, such as subarc.
- The AVPS is operating using standard ESAB pendant and joystick control.
- Minimal operator training is required. The operator simply selects the pre-programmed joint profile (groove, fillet etc.), brings the head into position and starts tracking.
- The cost of an AVPS upgrade can easily be justified by defect elimination and higher speeds.
- The AVPS can be installed on any new or retrofit GMD or GMH standard system. It can run in automatic, semi automatic and manual modes.
- · Robust design fit for SAW environment.
- Easy retrofit on existing GMD/GMH installations.
- No mechanical adjustments needed.
- Easy to learn and operate.
- Vertical and horizontal seam tracking for V- and butt grooves as well as many other joint types.
- · Joint type selection via control pendant.
- The delivery includes Laser vision camera, control unit, Weldcom HMI software, replacement protective camera lenses (10 pcs), cable kit complete for GMD/GMH including ESAB probe cable (3 m), laser camera cable (30 m), control unit to GMD/GMH (3 m).





Ordering information

AVPS for GMD	0822 113 880
AVPS for GMH	0822 113 881
AVPS for GMH and CaB with FAA	0822 113 882
Sales Literature	XA00155820

Technical data	Laser vision camera
Standoff distance, mm (in.)	5.1 (0.2)
Field of view depth, mm (in.)	140 (5.5)
Field of view width, mm (in.)	27-76 (1.1-3)
Average depth resolution, mm (in.)	0.11 (0.0043)
Average lateral resolution, mm (in.)	0.05 (0.00197)
Laser class	IIIb
Operating temperature, °C (°F)	5-40° (41-104°)
Dimension, LxWxH, mm (in.)	33.3x58x94 (1.3x2.3x3.7)
Weight, kg (lbs.)	0.5 (1.1)

Technical data	Control unit
Input power, V DC	24
Operating temperature, °C (°F)	5-40° (41-104°)
Dimension, LxWxH, mm (inch)	300x300x150 (11.8x11.8x5.9))
Weight, kg (lbs.)	3.5 (7.7)

OPC Basic & Super

Sturdy compact flux recovery systems

- · Robust and compact design.
- Easy to operate and practically maintenance-free.
- Integated system for maximum productivity lower investment and service costs.
- Adapts to any A2 or A6 welding system tractor or stationary.
- Uses only compressed air safe and inexpensive.
- Can be integrated into complete FFRS flux feeding and recovery system.
- Three filter types; filter bag for A2 applications, cyclone filter with filter bag for most A6 applications and Tedak filter for heavy-duty applications.
- OPC system includes; ejector, cyclone, filter with attachment hardware, securing strap, suction hose and four suction nozzles (for butt welds, normal and large; fillet welds, left and right).

OPC Basic Flux Recovery System

- Works on ejector principle using compressed air
- Cyclone separator, on top of flux hopper, efficiently separates dust from recovered flux.
- Slag is separated and flux is returned to hopper.

Ordering information

OPC Basic, with standard filter bag	0148 140 880
OPC Basic, with cyclone filter	0802 415 882
OPC Basic, with Tedak filter	0802 415 883
OPC Super *)	0339 719 880
OPC Super complete, with cyclone filter	0802 415 892
OPC Super complete, with Tedak filter	0802 415 893
Sales Literature	XA00105020
Sales Literature Wear parts OPC	XA00126420

*) excl. hose, nozzles and filter

Technical data	OPC Basic	OPC Super
Airflow capacity at working pressure 0.4 MPa, I/min at working pressure 0.5 MPa, I/min at working pressure 0.6 MPa, I/min	175 225 250	420 500 580
Max working pressure, MPa	0.6	0.6
Max suction height at working pressure 0.4 MPa, m *) at working pressure 0.5 MPa, m *) at working pressure 0.6 MPa, m *)	0.8 0.8 0.8	1.0 1.2 1.4
Sound level at work, dB	70	72
Max working temperature, °C	130	150
Short term temperature, °C **)	170	190

^{*)} Suction height with normal flux bead and a welding speed of 100 cm/min



OPC Super Flux Recovery System

- Similar to Basic System but with stronger ejector and cyclone provides better suction.
- Can also be used with pre-heated flux.

Options & Accessories

Air pressure hose 3/8 in.	0190 343 104
Air pressure hose 1/2 in.	0190 343 106
Air pressure tube Ø 63 mm, 2.5 in.	0193 125 003
Air central	0417 714 880
Plastic bag	0190 665 004
Filter bag, paper	0155 966 001
Filter bag, cotton	0332 448 001
Cyclone filter	0379 538 880
Tedak filter	0453 708 881



^{**)} Tested with preheated flux to temp. max 220°C and weld object temp. max 350°C.



FFRS Flux Feed and Recovery Systems

Efficient flux handling for cost-effective welding

- · Ideal for continuous and high capacity welding
- Minimum manual flux handling.
- Reduced flux consumption for better welding economy.
- Fewer weld stops for increased efficiency.
- Efficient filtration of used air.
- Flux feeds from a 75 I (20 gal.) capacity TPC-75 pressurized flux tank to the ESAB flux hopper of your choice; 6 I or 10 I (1.6 gal. or 2.6 gal.)
- Flux feed inlet options; straight or bent.

FFRS Super

- Built on OPC Super modules
- Super for increased flux and heat conditions.
- Based on ejector vacuum principle.

FFRS 1200 & 3000

- Based upon an electrical suction unit creating vacuum.
- For use when extra high recovery force is required and for compact welding heads.
- Flux dust separated automatically in a pre-separator.

Options & Accessories

Air central	0417 714 880
Flux hopper 10 I (2.6 gal.)	0147 649 881
Flux hopper 6 I (1.6 gal.)	0413 315 881
Holder for hopper	0148 487 880
Level indicator for TPC	0452 048 880
Pneumatic flux valve	0802 540 880
Flux valve control unit	0813 620 880
Sales Literature FFRS Super	XA00104820
Sales Literature FFRS 1200 & 3000	XA00104920



FFRS 3000

Ordering information

FFRS Super with cyclone filter	0809 914 881
FFRS Super with heaters in TPC	0809 914 882
FFRS Super with Tedak dust filter	0809 914 883
FFRS Super with heaters and Tedak filter	0809 914 884

FFRS Super systems include 25 m 1/2" air pressure hose, 25 m flux feed hose from TPC to hopper (20 m for heated systems) 2 m flux suction hose, 6 m dust hose from hopper to filter (10 m for systems with Tedak), bent inlet for flux hopper and flux recovery nozzles.

FFRS 1200	0809 914 885
FFRS 1200 with heaters	0809 914 886
FFRS 3000	0809 914 887
FFRS 3000 with heaters	0809 914 888

FFRS 1200/3000 systems include 25 m 1/2" air pressure hose, 25 m flux feed hose from TPC to hopper (20 m for heated systems) 16 m flux suction hose, suction hose between the primary separator and the vacuum unit (1200 = 2 m, 3000 = 5 m), bent inlet for flux hopper and flux recovery nozzles.

Technical data	FFRS 1200	FFRS 3000
Weight without flux, kg (lbs.)	230 (507)	400 (882)
Dimensions, LxWxH, mm (in.)	1053x450x2210 (41x18x87)	750x450x2210 (30x18x87)
Primary separator Volume, I (gal.) Dimensions, LxW, mm (in.)	50 (13) 450x700 (18x28)	50 (13) 450x900 (18x35)
Suction unit Type Power, W Mains supply, V/Hz Fuse, A Max. vacuum, kPA Max. air flow capacity, m³/h Sound level, dB Filter area, m² Life-span of filter, work hours Weight, kg (lbs.) Dimensions, LxWIH, mm (in.)	P160 1200 110-230 / 50-60 10 -21 156 74 0.6 99.95 5-6000 19 (42) 480x400x1160 (19x16x46)	E-PAK 150 3000 400 / 3-50 16 -25 270 63 3 99.95 4000-6000 194 (428) 1200x690x2000 (47x27x79)

CRE 30 & CRE 60 Air Drying Units

For use with ESAB flux handling systems

- Designed for use with any flux handling system.
- The system is based on the absorption principle reduces the risk of hydrogen cracking in weld metal by ensuring flux remains dry.
- Built-in monitor warns if the programmed humidity limit is exceeded.
- Reduces condensation less corrosion and malfunctions.
- Simple system monitoring manometer on pressurized dryer bottles with easy-to read dew point indicator.



CRE 30 air drying unit	0443 570 880
CRE 60 air drying unit	0443 570 881
Sales Literature	XA00101920



Options & Accessories

Desiccant, type 512

 (package per 25 kg (55 lbs.)
 0443 570 017

 Oil filter
 0443 570 018

 Dust filter
 0443 570 019

CRE 30	CRE 60
230, 50/60	230, 50/60
40	50
30 Normal (1060)	60 Normal (2120)
14	14
-26 (-14)	-26 (-14)
10 (22) 4 2.5-5.0 (0.01-0.20) 720 (0.023)	16 (35) 4 2.5-5.0 (0.01-0.20) 720 (0.026)
5	5
60 Normal	60 Normal
R12	R12
6 (87)	6 (87)
10 (145)	10 (145)
30 (86)	30 (86)
	230, 50/60 40 30 Normal (1060) 14 -26 (-14) 10 (22) 4 2.5-5.0 (0.01-0.20) 720 (0.023) 5 60 Normal R12 6 (87) 10 (145)

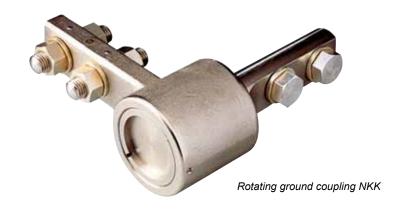


Rotating Ground Couplings

- For a good connection to the workpiece to obtain optimal welding performance.
- For rotating workpieces, a ground connection with a rotatable coupling is the safest choice.
- To attach the coupling to the workpiece, special clamps are available, see "Ground Clamps" below.

Ordering information

NKK 600, max. 600A, 2.2 kg (4.8 lbs.)	0700 004 007
NKK 800, max. 800A, 2.7 kg (5.9 lbs.)	0700 004 001
NKK 1200, max 1200A, 4.0 kg (8.8 lbs.)	0700 004 002
NKK 2000, max 2000A, 7.3 kg (16 lbs.)	0700 004 003



Ground Clamps for Rotating Workpieces

- K2 or PZ3 ground clamps can be mounted directly onto the rotatable ground coupling to create good contact between the workpiece and the return cable.
- Return clamps can also be used together with the GA 800 handle connection to form a complete ground clamp to handle high current welding on non-rotating workpieces.

Ordering information

 K2 Clamp head for NKK 800/1200
 0700 004 004

 GA 800 Handle connection for K2
 0700 004 005

 PZ3 Pole clamp for NKK 2000
 0700 004 006







Camera Systems

for submerged arc welding (SAW) and open arc welding

- Together with a laser or pilot lamp, control the welding process from a convenient location.
- The system consists of a purposeful designed camera with builtin crosshair generator to provide a continuous and distinct joint scanning.
- In combination with the 15 inch flat screen, it becomes a unit for excellent control and joint supervision.
- Upon welding, the GMAW camera switches over to viewing the weld pool, facilitating the supervision of the process.
- Optional overview camera will reproduce a picture of the welded joint to get an immediate inspection of the welding quality.



Technical data	Monitor
Panel type	LCD 15" with protective glass
Temperature range Operating	-5 - +35°C



Ordering information

Camera systems including camera, camera housing, monitor, crosshair generator, camera mounting bracket, work light, work light bracket, necessary cables:

A2/A6 SAW camera with cooling unit	0811 412 880
A2/A6 SAW camera without cooling unit	0811 412 881
SAW compact camera with cooling unit	0811 413 900
SAW compact camera without cooling unit	0811 413 901
SAW compact Basic/Overview camera	0811 413 880
GMAW camera with cooling unit	0811 414 880
GMAW camera without cooling unit	0811 414 881
Sales Literature	XA00124520

Ordering information - components

SAW camera	0810 092 880
GMAW camera	0811 380 880
GMAW camera (prep for cooling)	0811 380 881
SAW compact camera	0811 381 880
SAW compact camera (prep for cooling)	0811 381 881
SAW compact Basic/Overview	0810 517 880
Monitor incl crosshair generator	0811 383 880

Housing is included in cameras and monitor

Technical data	SAW Camera	GMAW Camera/ SAW Compact camera	SAW Compact camera Basic/Overview
TV standard	PAL/NTSC	PAL/NTSC	PAL/NTSC
Temperature range Operating Cooled version (water cooling is required)	-5 - +50°C -	-10 - +50°C (14-122°F) approx. 300°C	-
Dimensions, mm (in.)	60x60x105 (2.4x2.4x4.1)	145x24x24 (5.7x0.9x0.9)	25x25x126 (1x1x5) + lens
Weight, kg (lbs.)	approx 0.46 (1)	approx 0.46 (1)	approx. 0.16 (0.35)

Accessory Components



OCE-2H Cooling unit

Compact and efficient

- Can be used for gas metal arc welding (GMAW) as well as for tungsten arc welding (GTAW).
- Both for manual and automatic welding.
- Flow guard as option.
- Designed for use together with water-cooled welding equipment, manual or automatic.
- The water tank and pump are manufactured of corrosion resistant material. A flow guard is available as optional equipment for control of the water flow down to about 1 l/min (0.26 gal.)

Cooling unit OCE-2H	0414 191 881
Flow guard for OCE-2H	0414 231 880
Sales Literature	XA00043120

Technical data Pump with	motor
Max power consumption, W	250
Mains supply, V, Hz	230, 50/60, 1-phase
Mains water pressure at 50 Hz 300 kPa, bar 60 Hz 410 kPa, bar	3 4.1

Technical data Cooler	
Cooling power 40° overtemp and 2.0 l/min, kW 60° overtemp and 2.0 l/min, kW	1.1 1.7 kW
Water pressure at 2.0 l/min, kPa	220
Total water consumption, I (gal.)	8 (2.11)
Dimensions, LxWxH, mm (in.)	236x316x398 (9.3x12.4x15.7)



Handling Equipment

CD 5-120 and CI 5-120

Conventional Roller Beds

- Robust design with durable rollers.
- Gritblasted steelwork with polyurethane finished coating to endure the abrasive environment of offshore and marine industries.
- Oversized bearings.
- Specially formulated high-load polyurethane tire design for high wear resistance.
- Cast steel gearbox with double worm gear arrangement for smooth operation and minimum backlash.
- Solid state inverter for precise speed control.
- Motorized and idler rail bogie versions.

Ideal for:

- Wind tower fabrication
- Offshore and shipyards
- Pressure vessels
- Pipelines

Options & Accessories

Foot pedal	0370 250 301
Synchronise kit	0370 250 302
PEH/PEK & E-stop connection (without I/O-board)	0370 251 514
Pendant with digital display	0370 250 431



Drive unit	
Roller bed CD-5	0370 250 000
Roller bed CD-10	0370 250 002
Roller bed CD-15	0370 250 004
Roller bed CD-30	0370 250 006
Roller bed CD-60	0370 250 008
Roller bed CD-100	0370 250 010
Roller bed CD-120	0370 250 012
ldler unit	
Roller bed CI-5	0370 250 001
Roller bed CI-10	0370 250 003
Roller bed CI-15	0370 250 005
Roller bed CI-30	0370 250 007
Roller bed CI-60	0270 250 009
Roller bed CI-100	0370 250 011
Roller bed CI-120	0370 250 013
Sales Literature	XA00144320

Technical data		CD/CI-5	CD/CI-10	CD/CI-15	CD/CI-30	CD/CI-60	CD/CI-100	CD/CI-120
Max loading capacity, ton/section	Drive unit Idler unit	2.5 2.5	5 5	7.5 7.5	15 15	30 30	50 50	60 60
Turning capacity, ton	Drive unit	7	15	25	45	100	150	250
Turning speed, min-max, mm/min (ipm)		62-618 (2.4-24.3)	102-1020 (4-40)	114-1137 (4.5-45)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)
Workpiece diameter, mm (in.) min 90°, max 30°		165-6430 (6.5-253)	165-6430 (6.5-253)	222-7580 (8.7-298)	466-8366 (18.3-329)	466-8366 (18.3-329)	466-8366 (18.3-329)	466-8366 (18.3-329)
Mains supply, V	50Hz, 3ph 60Hz, 3ph	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480
Fuse, A		16	16	16	16	16	32	50
Control voltage, V AC		24	24	24	24	24	24	24
Weight, kg (lbs.)	Drive unit Idler unit	401 (884) 221 (487)	506 (1115) 270 (595)	665 (1466) 348 (767)	1222 (2694) 668 (1473)	2002 (4413) 1237 (2727)	2688 (5926) 1555 (3428)	3323 (7326) 2019 (4451)
Dimensions LxHxW, mm (in.)	Drive unit	2090x540x534 (82x21x21) 2090x540x386 (82x21x15)	2090x540x564 (82x21x22) 2090x540x450 (82x21x17.7)	2465x620x562 (97x24.5x22) 2465x620x500 (97x24.5x19.6)	2790x765x765 (110x30x35) 2790x765x700 (110x30x35)	2790x765x933 (110x30x37) 2790x765x888 (110x30x35)	3400x765x1177 (134x30x46) 2790x765x1080 (110x30x42.5)	3400x765x1284 (134x30x50.5) 2900x765x1110 (110x30x43.7)
Cable, control box, m (in.)		10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)



CD-30/60/100/120-DB and CI-30/60/100/120-DB

Conventional Roller Beds with rail bogie

- Robust design with durable rollers.
- Gritblasted steelwork with polyurethane finished coating to endure the abrasive environment of offshore and marine industries.
- · Oversized bearings.
- Specially formulated high-load polyurethane tire design for high wear resistance.
- Cast steel gearbox with double worm gear arrangement for smooth operation and minimum backlash.
- Solid state inverter for precise speed control.
- Motorized and idler rail bogie variants.

Ideal for:

- Wind tower fabrication
- Offshore and shipyards
- Pressure vessels
- Pipelines

Options & Accessories

Foot pedal	0370 250 301
Synchronise kit	0370 250 302
Pendant with digital display	0370 250 431



CD-30-DB with Motorized Rail Bogie, 50 Hz	0370 250 014
CD-60-DB with Motorized Rail Bogie, 50 Hz	0370 250 016
CD-100-DB with Motorized Rail Bogie, 50 Hz	0370 250 018
CD-120-DB with Motorized Rail Bogie, 50 Hz	0370 250 020
CD-30-DB with Motorized Rail Bogie, 60 Hz	0370 250 022
CD-60-DB with Motorized Rail Bogie, 60 Hz	0370 250 024
CD-100-DB with Motorized Rail Bogie, 60 Hz	0370 250 026
CD-120-DB with Motorized Rail Bogie, 60 Hz	0370 250 028
CI-30-IB with Idler Rail Bogie	0370 250 015
CI-60-IB with Idler Rail Bogie	0370 250 017
CI-100-IB with Idler Rail Bogie	0370 250 019
CI-120-IB with Idler Rail Bogie	0370 250 021
Sales Literature	XA00144420

Technical data		CD-30-DB / CI-30-IB	CD-60-DB / CI-60-IB	CD-100-DB / CI-100-IB	CD-120-DB / CI-120-IB
Max loading capacity, ton/section	Drive unit Idler unit	15 15	30 30	50 50	60 60
Turning capacity, ton	Drive unit	45	100	150	250
Turning speed, min-max, mm/min (ipm)		130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)
Travel speed rail bogie, mm/min (ipm)		292-2920 (11.5-115)	292-2920 (11.5-115)	292-2920 (11.5-115)	292-2920 (11.5-115)
Workpiece diameter, mm (in.) min 90°, max 30°		466-8366 (18.3-329.4)	466-8366 (18.3-329.4)	466-8366 (18.3-329.4)	466-8366 (18.3-329.4)
Mains supply, V	50Hz, 3ph 60Hz, 3ph	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480
Fuse, A		16	16	32	50
Control voltage, V AC		24	24	24	24
Weight, kg (lbs.)	Drive unit Idler unit	1739 (3834) 1082 (2385.5)	2550 (5622) 1560 (3439)	3275 (7220) 1901 (4191)	3938 (8682) 2391 (5271)
Dimensions LxHxW, mm (in.)	Drive unit	2790x955x1382 (110x37.5x54.5) 2790x955x1082 (110x37.5x42.5)	2790x955x1592 (110x37.5x63) 2790x955x1450 (110x37.5x57)	3400x970x1782 (134x38x70) 2790x955x1482 (110x37.5x58)	3400x1040x1992 (134x41x78.5) 2900x955x1692 (114x37.5x67)
Cable, control box, m (in.)		10 (394)	10 (394)	10 (394)	10 (394)

FIR 35, 75 and 100
Heavy duty Roller Beds for growing line production

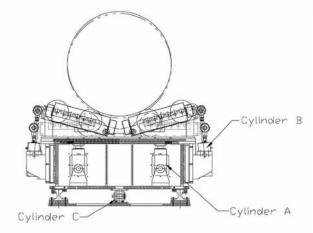
- Designed and robustly built to withstand rugged work environments.
- This unit is part of a growing line, ideal for wind tower production.
- FIR has four independently adjustable rollers to align the workpieces (cans) with each other and two cross rollers to lift up the section for conveying out the workpiece.

Ideal for:

- Wind tower fabrication
- Vessels
- Pipemills

Roller bed FIR 35 Roller bed FIR 75	0370 250 934 0370 250 935
Roller bed FIR 100	0370 250 936
Sales Literature	XA00144520





Technical data	FIR 35	FIR 75	FIR 100
Max loading capacity, ton	35	75	100
Workpiece diameter, mm (in.)	2200-5000 (86.6-197)	900-6000 (35.4-236)	900-6000 (35.4-236)
Tire type, steel, Ø mm (in.)	300 (11.8)	300 (11.8)	300 (11.8)
Control voltage, V AC	24	24	24
Mains supply, 50Hz-3ph, V	480	480	480
IP classification (electrical)	IP43	IP43	IP43
Power pack rating, kW	3	5.5	5.5
Pump, cc	3.2	5.5	5.5
Tank capacity, I (gal.)	60 (15.9)	90 (23.8)	90 (23.8)
Stroke length cylinder A, mm (in.)	Ø125x160x2 (4.9x6.3x0.08)	Ø150x85x160x2 (5.9x3.3x6.3x0.08)	Ø180x160x2 (7.1x6.3x0.08)
Stroke length cylinder B, mm (in.)	Ø100x210x4 (3.9x8.3x0.16)	Ø150x85x350x4 (5.9x3.3x13.8x0.16)	Ø180x400x4 (7.1x15.8x0.16)
Stroke length cylinder C, mm (in.)	Ø150x300 (5.9x11.8)	Ø150x85x300 (5.9x3.3x11.8)	Ø180x300 (7.1x11.8)
Net weight, kg (lbs.)	4850 (10692)	8400 (18519)	9000 (19842)
Cable lenght control pendant, m (in.)	10 (394)	10 (394)	10 (394)



FIT 30, 60 and 100

Conventional idler Roller Beds with built-in hydraulic height adjustment

- Designed and robustly built to withstand rugged work environments.
- This unit can be used in one for aligning several cans or used as part of a growing line, ideal for wind tower production.
- Two independently adjusted rollers to align the workpieces (cans) with each other.
- Delivered with or without rail bogie.

Ideal for:

- Wind tower fabrication
- Vessels
- Pipemills

Roller bed FIT 30	0370 250 937
Roller bed FIT 30IB	0370 250 938
Roller bed FIT 60	0370 250 939
Roller bed FIT 60IB	0370 250 940
Roller bed FIT 100	0370 250 941
Roller bed FIT 100IB	0370 250 942
.	
Sales Literature	XA00144620



Technical data	FIT 30	FIT 60	FIT 100
Max. loading capacity, ton	15	30	50
Max. lifting capacity, ton	15	30	50
Workpiece diameter, mm (in.)	1500-6500 (59x256)	1500-6500 (59x256)	1524-5486 (60x216)
Fuse, A	16	16	16
Control voltage, V AC	24	24	24
Mains supply, 50/60Hz-3ph, V	400	400	400
IP classification (motor)	IP55	IP55	IP55
IP classification (electrical)	IP43	IP43	IP43
Power pack rating, kW	1.1	2.2	4
Weight, kg (lbs.)	1800 (3968)	1900 (4189)	2295 (5060)
Dimension with travel car, LxWxH, mm (in.)	3730x900x1590 (147x35.4x62.6)	3730x1130x1590 (147x44.5x62.6)	3730x1330x1590 (147x52.4x62.6)
Dimension without travel car, LxWxH, mm (in.)	3730x540x945 (147x21.3x37.2)	3730x770x945 (147x30.3x37.2)	3730x1070x945 147x42.1x37.2)
Cable length control box, m (in.)	6 (236)	6 (236)	6 (236)

SD 5-120 and SI 5-120

Self-aligning Roller Beds

- Robust design with durable rollers.
- Gritblasted steelwork with polyurethane finished coating to en dure the abrasive environment of offshore and marine industries.
- Oversized bearings.
- Specially formulated high-load polyurethane tire design for high wear resistance.
- Cast steel gearbox with double worm gear arrangement for smooth operation and minimum backlash.
- Solid state inverter for precise speed control.
- Motorized and idler rail bogie versions.
- Electical clutch

Ideal for:

- Wind tower fabrication
- Offshore and shipyards
- Pressure vessels
- Thinwall vessels / Pipes

Options & Accessories

Foot pedal 0370 250 301 Pendant with digital display 0370 250 431



	unit	

Brive and	
Roller bed SD-5	0370 250 050
Roller bed SD-10	0370 250 052
Roller bed SD-20	0370 250 054
Roller bed SD-40	0370 250 056
Roller bed SD-60	0370 250 058
Roller bed SD-80	0370 250 060
Roller bed SD-100	0370 250 062
Roller bed SD-120	0370 250 095

Idler unit

Roller bed SI-5	0370 250 051
Roller bed SI-10	0370 250 053
Roller bed SI-20	0370 250 055
Roller bed SI-40	0370 250 057
Roller bed SI-60	0270 250 059
Roller bed SI-80	0370 250 061
Roller bed SI-100	0370 250 063
Roller bed SI-120	0370 250 096

Technical da	nta	SD/SI-5	SD/SI-10	SD/SI-20	SD/SI-40	SD/SI-60	SD/SI-80	SD/SI-100	SD/SI-120
Max loading capacity, ton/section	Drive unit Idler unit	2.5 2.5	5 5	10 10	20 20	30 30	40 40	50 50	60 60
Turning capacity, ton	Drive unit	7.5	15	30	60	100	120	150	180
Turning speed, mm/min (ipm)		130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	124-1240 (4.9-49)	125.5-1255 (4.94-49.4)	140-1400 (5.5-55)	140-1400 (5.5-55)	100-1000 (4-40)
Workpiece diameter, mm (in.)		200-6500 (8-256)	200-6500 (8-256)	200-6500 (8-256)	500-6500 (20-256)	500-6500 (20-256)	500-6500 (20-256)	500-6500 (20-256)	500-6500 (20-256)
Mains supply, V	50Hz, 3ph 60Hz, 3ph	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480
Fuse, A		16	16	16	16	32	32	32	32
Control voltage, V AC		24	24	24	24	24	24	24	24
Weight, kg (lbs.)	Drive unit Idler unit	880 (1940) 580 (1279)	950 (2094) 660 (1455)	1138 (2509) 758 (1671)	2720 (5997) 1960 (4321)	3295 (7264) 2255 (4971)	3420 (7540) 2385 (5258)	-	-
Dimensions LxHxW, mm (in.)	Drive unit	3100x930x480 (122x37x19) 3100x930x420 (122x37x17)	3080x930x500 (121x37x20) 3080x930x440 (121x37x17.3)	3600x930x550 (142x37x21.7) 3600x930x480 (142x37x18.9)	3780x1400x632 (149x55x24.9) 3300x1400x632 (130x55x24.9)	3780x1400x632 (149x55x24.9) 3300x1400x632 (130x55x24.9)	4250x1386x990 (167x55x39) 3240x1386x890 (128x55x35)	4250x1386x1090 (167x55x43) 3240x1386x990 (128x55x39)	4100x1400x830 (161x55x33) 3600x1400x790 (142x55x31)
Cable, control box, m (in,)		10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)



SD 5-100 DB and SI 5-100 IB

Self-aligning Roller Beds with rail bogie

- Robust design with durable rollers.
- Gritblasted steelwork with polyurethane finished coating to endure the abrasive environment of offshore and marine industries.
- · Oversized bearings.
- Specially formulated high-load polyurethane tire design for high wear resistance.
- Cast steel gearbox with double worm gear arrangement for smooth operation and minimum backlash.
- Solid state inverter for precise speed control.
- Motorized and idler rail bogie versions.

Ideal for:

- Wind tower fabrication
- Offshore and shipyards
- Pressure vessels
- Pipelines

Options & Accessories

Foot pedal	0370 250 301
Pendant with digital display	0370 250 431

Sales Literature XA00145120



Ordering information

Drive unit

0370 250 064
0370 250 066
0370 250 068
0370 250 070
0370 250 072
0370 250 074
0370 250 076
0370 250 097

Idler unit

Roller bed SI-5-IB	0370 250 065
Roller bed SI-10-IB	0370 250 067
Roller bed SI-20-IB	0370 250 069
Roller bed SI-40-IB	0370 250 071
Roller bed SI-60-IB	0270 250 073
Roller bed SI-80-IB	0370 250 075
Roller bed SI-100-IB	0370 250 077
Roller bed SI-120-IB	0370 250 098

Technical data		SD-5-DB SI-5-IB	SD-10-DB SI-10-IB	SD-20-DB SI-20-IB	SD-40-DB SI-40-IB	SD-60-DB SI-60-IB	SD-80-DB SI-80-IB	SD-100-DB SI-100-IB	SD-120-DB SI-120-IB
Max loading capacity, ton/section	Drive unit Idler unit	2.5 2.5	5 5	10 10	20 20	30 30	40 40	50 50	60 60
Turning capacity, ton	Drive unit	7.5	10	20	60	100	120	150	150
Turning speed, mm/min (ipm)		130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)	130-1300 (5-51)
Travel speed, mm/min (ipm)		300-3000 (11.8-118)	300-3000 (11.8-118)	300-3000 (11.8-118)	300-3000 (11.8-118)	300-3000 (11.8-118)	300-3000 (11.8-118)	300-3000 (11.8-118)	300-3000 (11.8-118)
Workpiece diameter, mm (in.)		300-6500 (11.8-256)	300-6500 (11.8-256)	300-6500 (11.8-256)	300-6500 (11.8-256)	500-6500 (20-256)	500-6500 (20-256)	500-6500 (20-256)	500-6500 (20-256)
Power supply, V	50Hz, 3ph 60Hz, 3ph	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480
Fuse, A		16	16	16	16	32	32	32	32
Control voltage, V AC		24	24	24	24	24	24	24	24
Weight, kg (lbs.)		1180 (2601) 880 (1940)	1400 (3086) 920 (2028)	1620 (3571) 1090 (2403)	-	4000 (8818) 2700 (5952)	4305 (9490) 3140 (6923)	-	-
Dimensions LxHxW, mm (in.)	Drive unit	3100x1200x1210 (122x47x47.6) 3100x1200x1050 (122x47x41.3)	3080x1200x1210 (121x47x47.6) 3080x1200x1050 (121x47x41.3)	3600x1200x1210 (142x47x47.6) 3600x1200x1050 (142x47x41.3)	3780x1600x1855 (149x63x73) 3300x1600x1475 (87.5x50x51.5)	3780x1600x1855 (149x63x73) 3300x1600x1475 (87.5x50x51.5)	4250x1538x1710 (167x61x67) 3240x1538x1560 (128x61x61.4)	4250x1538x1850 (167x61x73) 3240x1538x1700 (128x61x67)	4100x1600x2055 (161x63x81) 3600x1600x1675 (142x50x66)
Cable, control box, m (in.)		10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)	10 (394)

FUB 30 and FUB 60

Fit-up beds

- Designed and robustly built to withstand rugged work environments
- Fastest system to assemble 1 + 1 sections.
- One FUB set consists of one power and one idler roller bed 30T, four indepently adjustable rollers to align the two sections with each other.
- The roller bed and rollers are all mounted on one main frame.
- Tires of type Polyurethane 20.5 x 7 inch.

Ideal for:

- Wind tower fabrication
- Vessels
- Pipemills





Ordering information

 FUB 30
 0370 250 931

 FUB 60
 0370 250 932

Technical data	FUB 30	FUB 60
Max. loading capacity, ton	30	60
Min. workpiece diameter, mm (in.) at 90° included angle	610 (24)	610 (24)
Max. workpiece diameter, mm (in.) at 30° included angle	6435 (253.3)	6435 (253.3)
Roller speed, mm/min (ipm)	130-1295 (5-51)	130-1295 (5-51)
Control voltage, V DC	24	24
Mains supply, 50 Hz, 3-phase, V 60 Hz, 3-phase, V	380/400/415 400/460/480	380/400/415
Travel car bogie	yes	yes
Travel car speed, mm/min (ipm)	238-2380 (9.4-94)	240-2400 (9.5-95)
Travel car drive, AC kW	1.1	2.2
Power pack rating, kW	1.5	1.5
IP classification (motor)	IP55	IP55
IP classification (electrical)	IP43	IP43
Pump, cc	2.1	2.1
Tank capacity, I	16 (4.23)	16 (4.23)
Weight, kg (lbs.)	5250 (11575)	7360 (16226)



RT3 - RT35

Two-axis Positioner for rotating and tilting workpieces

- Continuously (stepless) adjustable speed.
- Low voltage (24) remote control unit for all functions.
- 2-axis: tilting and rotation.
- Inverter-controlled rotation speed.
- All drives are equipped with AC motors which require less maintenance, no carbon-brush to change.
- Mechanically and electrically designed for easier maintenance with few spare parts.

Ideal for:

- Pipe shops
- Vessels
- Cladding of dish ends
- Fuel tanks



Ordering information

Positioner RT3	0370 250 851
Positioner RT5	0370 250 852
Positioner RT10	0370 250 853
Positioner RT15	0370 250 854
Positioner RT20	0370 250 855
Positioner RT35	0370 250 856

Sales Literature XA00144820

Options & Accessories

Foot pedal	0370 250 298
Pendant with digital display	0370 250 431

Technical data	RT3	RT5	RT10	RT15	RT20	RT35
Max. loading capacity, ton	3	5	10	15	20	35
Rotation motor, kW	1.5	2.2	4	5.5	9.2	11
Rotation cont AC inverter, kW	1.5	2.2	4	5.5	11	11
Rotation speed, rpm	0.1-1.0	0.08-0.82	0.048-0.48	0.1-1.0	0.048-0.48	0.029-0.29
Tilting range table plate, °	0-135	0-135	0-135	0-135	0-135	0-90
Tilting speed, sec.	80	113	177	120	177	105
Tilting motor c/w brake	1.5	2.2	4	7.5	9.2	7.5
Power supply, 50 Hz, 3-ph, V 60 Hz, 3-ph, V	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480	380/400/415 440/460/480
Fuse, A	16	18	25	40	60	60
Control voltage, V AC	24	24	24	24	24	24
Table plate diameter, mm (in.)	1200 (47)	1500 (59)	1800 (71)	1800 (71)	2200 (87)	2800 (110)
Max. welding current, A	800	1000	1000	1000	1000	1000
IP classification	IP55	IP55	IP55	IP55	IP55	IP55
Weight, kg (lbs.)	1570 (3461)	2720 (5996.5)	4530 (9987)	7100 (15653)	10000 (22046)	17000 (37479)
Dimensions LxWxH, mm (in.)	1625x1070x1057 (64x42x41)	1720x1590x1227 (68x62.5x48)	2453x2070x1586 (96.5x81.5x62.4)	2800x2190x1840 (110x86x72.5)	3050x2400x1850 (120x94.5x73)	1940x2950x2600 (76x116x102)
Cable length, control box, m (in.)	6 (236)	6 (236)	6 (236)	10 (394)	10 (394)	10 (394)

TAP 1T-STD / TAP 3T-STD and TAP 1T-HD / TAP 3T-HD

Three-axis Positioner for small objects

- Height, angle and speed are continuously (stepless)adjustable.
- Low voltage (24V) remote control unit for all functions.
- 3-axis: height, tilting angle and rotation.
- Inverter-controlled rotation speed.
- All drives are equipped with AC motors which require less maintenance, no carbon-brush to change.
- The hydraulics for height and tilt adjustment are equipped with built-in safety valves preventing hose failure.
- Mechanically and electrically designed to be more compact and wih fewer components for easier maintenance and fewer spare parts.
- Compared with TAP-STD, the TAP-HD have higher rotation torque, smaller backlash on table top and are more stable on front back swaying.



- Pipe shops
- Vessels
- Cladding of dish ends
- Fuel tanks



Positioner TAP 1T-STD	0370 250 750
Positioner TAP 3T-STD	0370 250 751
Positioner TAP 1T-HD	0370 250 753
Positioner TAP 3T-HD	0370 250 754

Sales Literature XA00144920



Options & Accessories

Foot pedal	0370 250 298
Pendant with digital display	0370 250 431

Technical data	TAP 1T-STD	TAP 1T-HD	TAP 3T-STD	TAP 3T-HD
Max. loading capacity, ton	1	1	3	3
Max. rotational torque, Nm	750	2730	1250	4860
Tilting torque, Nm	4070	4070	9980	9980
Rotation speed, rpm	0.1-1.5	0.1-1.5	0.06-0.6	0.06-0.6
Tilting range table plate, degree	0-135	0-135	0-135	0-135
Tilting range arm, degree	0-45	0-45	0-45	0-45
Mains supply 50/60 Hz, 3ph, V	400	400	400	400
Fuse, A	16	16	16	16
Control voltage, V AC	24	24	24	24
Table plate diameter, mm (in.)	900 (35.4)	900 (35.4)	1000 (39)	1000 (39)
Max. welding current, A	800	800	800	800
Weight, kg (lbs.)	782 (1724)	782 (1724)	1500 (3307)	1500 (3307)
Dimensions, LxWxH, mm (in.)	1875x1023x751 (73.8x40.3x29.6)	1620x1124x773 (63.8x44.3x30.4)	2040x1268x1019 (80.3x49.9x40.1)	2282x1280x1045 (89.8x50.4x41.1)
Cable, control box, m (in.)	6 (236)	6 (236)	6 (236)	6 (236)



MTS1 and MTS3

Pipe rotator

- MTS1 and MTS3 are used for supporting workpieces with different diameter and length.
- Positioning of the workpiece with headstock and positioner.

Ordering information

 Pipe rotator MTS1
 0370 251 057

 Pipe rotator MTS3
 0370 251 058

 Sales Literature
 XA00153920



Technical data	MTS1	MTS3
Max loading capacity, ton	1	3
Vessel size, Ø mm (in.)	100-610 (3.94-24.02)	150-914 (5.9-36)
Roller type	PU Black	PU Black
Roller size, mm (in.)	150 (5.9)	200 (7.87)
Weight, kg (lbs.)	198 (436.5)	335 (738.5)
Dimensions, LxWxH, mm (in.)	635x1020x500 (25x40.2x19.7)	800x1310x550 (31.5x51.6x21.7)

HPS-3T

Pipe rotator

- The HPS pipe rotator is used for supporting tubes with diameter from 100 to 1000 mm (3.9 to 39 inch).
- A manually operated hydraulic system will set the rollers for the diameter requested.

Ordering information

Pipe rotator HTS-3T 0370 251 044

Technical data	MTS3
Max loading capacity, ton	3
Workpiece size, Ø mm (in.)	100-1000
Roller size, mm (in.)	200 (7.87)
Weight, kg (lbs.)	345 (761)
Dimensions, LxWxH, mm (in.)	1500x1100x710 (59x43.3x28)



PR7/10 and IR7

Pipe Spool Rotator & Idler

- PR7/10 is used in Pipe Spool applications.
- The PR7/10 has robust design, gritblasted steelwork with Polyurethane finished coating to endure the abrasive environment.
- Working area Ø 50-920 mm (1.97-36.2 inch)
- Rotation speed 75-750 mm (2.95-29.5 inch)

Ideal for:

- Welding of pipes
- Prefabrication/welding of pipe systems
- Welding of curved pipes, angle tees

Ordering information

Pipe Spool Rotator PR7/10	0370 251 056
Idler IR7	0370 251 060
Sales Literature	XA00154220

Options & Accessories

Pendant with digital display 0370 250 431



Technical data	PR7/10	IR7
Max loading capacity, ton	3.5	3.5
Turning capacity, kg (lbs).	10 (22)	-
Roller speed, mm/min (ipm)	75-750 (2.95-29.5)	-
Workpiece diameter, min-max mm (in.)	100-970 (3.94-38.2)	165-970 (6.5-38.2)
Power supply, 50 Hz, 3-ph, V 60 Hz, 3-ph, V	380/400/415 440/460/480	-
Polyurethane Tire, Ø mm (in.) Width mm (in.)	254 (10) 80 (3.15)	254 (10) 80 (3.15)
Fuses, A	16	-
Control voltage, V AC	24	-
Motor, kW	1.1	-
IP classification (Motor)	IP 55	-
IP classification (Electrical)	IP 43	-
AC inverter, kW	1.1	-
Weight, kg (lbs.)	1210 (2668)	772 (1702)
Dimensions, LxWxH, mm (in.)	1500x3150x500 (59x124x19.7)	1200x850x715 (47.2x33.5x715)
Cable, control box, m (in.)	10 (394)	-



LLR-500P / LLR-500I and LLR-3000P / LLR-3000I

Conventional roller beds for small workpieces

- Ideal handling equipment for lightweight workpieces.
- Stepless adjustable speed.
- Supplied with a low-voltage foot pedal with Start/Stop function.
- Mechanically and electrically the roller beds have been designed for easier maintenance and a small number of spare parts.

Ideal for:

- Manufacturing of cylindrical objects
- Pipe shops



LLR 500P and LLR 500I

LLR-500P, drive unit	0370 250 190
LLR-500I, idler unit	0370 250 191
LLR-3000P, drive unit	0370 250 196
LLR-3000P, idler unit	0370 250 197
Sales Literature LLR-500P / LLR-500I	XA00154820
Sales Literature LLR-3000 / LLR-3000I	XA00155120



LLR 3000P and LLR 3000I

Technical data		LLR-500	LLR-3000P
Max loading capacity, kg (lbs.)	Drive unit Idler unit	250 (551) 250 (551)	1500 (3307) 1500 (3307)
Turning capacity, kg (lbs.)	Drive unit	750 (1653)	4500 (9921)
Turning speed, mm/min (ipm)		0-4420 (174)	0-4000 (157.5)
Workpiece diameter, mm (in.) min (150°), max (60°)		50-1000 (1.97-39.4)	286-1006 (11.3-39.6)
Power supply, 50Hz 1ph, V		220	220
Motor, W		100	100
Control voltage, V AC		24	24
Weight, kg (lbs.)	Drive unit Idler unit	60 (132) 45 (99)	109 (240) 71 (157)
Dimensions LxHxW, mm (in.)	Drive unit	1120x322x300 (44.1x12.7x11.8) 960x322x200 (37.8x12.7x7.9)	1260x413x405 (49.6x16.3x15.9) 950x413x340 (37.4x16.3x13.4)
Cable, foot pedal, m (in.)		3 (118)	3 (118)

LLP-200, LLP-500, LLP-750 and LLP-1000

Two axes positioner

- Ideal handling equipment for lightweight workpieces.
- Stepless adjustable speed.
- Supplied with a low-voltage foot pedal with Start/Stop function.
- The LLP positioners have 2 axes.
- The LLP-200 has manual tilting adjustment while the LLP-500, LLP-750 and LLP-1000 have motorized tilting.
- The 2-axes operation guarantes the ideal ergonomic position.
- Mechanically and electrically the roller beds have been designed for easier maintenance and a small number of spare parts.

Ideal for:

- Pipe shops
- Repair

Ordering information

0370 250 202
0370 250 203
0370 250 204
0370 250 205



Technical data	LLP-200	LLP-500	LLP-750	LLP-1000
Max loading capacity, turning, kg	200 (441)	500 (1102)	750 (1653)	1000 (2205)
Max loading capacity, tilting, kg	200 (441)	500 (1102)	750 (1653)	1000 (2205)
Rotation speed, rpm	0.6-6	0.2-2	0.09-0.9	0.09-0.9
Tilt range, degree	0 - 90	-45 - 90	-45 - 90	-45 - 90
Incoming supply (50Hz/1-phase), V	220	220	-	-
Incoming supply (50Hz/3-phase), V	-	-	380	380
Control voltage, V AC	24	24	24	24
Rotation drive motor, W	0.065	150	550	750
Earthing, A	300	300	600	600
Table plate diameter, mm	400 (15.7)	620 (24.4)	900 (35.4)	900
Dimensions, LxWxH, mm	400x550x540 (15.7x21.7x21.3)	620x680x817 (24.4x26.8x32.2)	900x1100x1230 (35.4x43.3x48.4)	900x1140x1390 (35.4x44.9x54.7)
Cable length foot pedal, m (in.)	3 (118)	3 (118)	3 (118)	3 (118)



LLP-50H and LLP-150H

Two axes positioner with center hole

- Ideal rotating and tilting lightweight workpieces.
- Stepless adjustable speed.
- Supplied with a low-voltage foot pedal with Start/Stop function.
- The LLP-H positioners have 2 axes, motorised rotation and manual tilting.
- The center hole is 120 mm.
- The 2-axes operation guarantes the ideal ergonomic position.
- Mechanically and electrically the roller beds have been designed for easier maintenance and a small number of spare parts.

Ideal for:

- Pipe shops
- Repair



 Positioner LLP-50H
 0370 250 200

 Positioner LLP-150H
 0370 250 201

 Sales Literature
 XA00154620

Technical data	LLP-50H	LLP-150H
Max loading capacity, turning, kg (lbs.)	50 (110)	150 (330)
Max loading capacity, tilting, kg (lbs.)	50 (110)	150 (330)
Rotation speed, rpm	0 - 4.5	0 - 4.5
Tilt range, degree	± 90	± 90
Incoming supply (50Hz/1-phase), V	220	220
Control voltage, V AC	24	24
Rotation drive motor, W	60	65
Earthing, A	200	200
Table plate diameter, mm (in.)	450 (17.7)	450 (17.7)
Table hole diameter, mm (in.)	120 (4.7)	120 (4.7)
Dimensions, LxWxH, mm (in.)	530x486x500 (20.9x19.1x19.7)	600x486x560 (23.6x19.1x22)
Cable length foot pedal, m (in.)	3 (118)	3 (118)



LLT-250 and LLT-750

Turntable

- Ideal for rotating lightweight workpieces.
- Assures easy access for welding and assembly.
- Stepless adjustable speed.
- Supplied with a low-voltage foot pedal with Start/Stop function.
- For improved productivity and quality.

Ordering information

Turntable LLT-250	0370 250	210
Turntable LLT-750	0370 250	211

Sales Literature XA00154720

Technical data	LLT-250	LLT-750
Max loading capacity, kg (lbs.)	250 (551)	750 (1653)
Rotation speed, rpm	0 - 4.5	0.08 - 0.8
Incoming supply (50Hz/1-phase), V	220	220
Control voltage, V AC	24	24
Rotation drive	DC 100W	AC 0.75 kW
Table plate diameter, mm (in.)	500 (19.7)	620 (24.4)
Dimensions, LxWxH, mm (in.)	600x500x310 (23.6x19.7x12.2)	716x810x537 (28.2x31.9x21.1)
Cable length foot pedal, m (in.)	3 (118)	3 (118)

Chuck LLC

3-claw chuck for ESAB Low Load Positioning Equipment

- Used as a support in combination with ESAB low load positioning equipment for lightweight workpieces.
- Designed for easy maintenance and assembly.

Ordering information

Chuck LLC, 3-claw chuck 0370 250 209

Technical data	Chuck-125
External diameter, Ø mm	83 (3.3)
External height, mm	200 (7.9)
Clamping range (alt 1), Ø mm	10 - 230 (0.39-9)
Clamping range (alt 2), Ø mm	10 - 250 (0.39-9.8)
Weight, kg (lbs.)	7.5 (16.5)







Tank welder AGW1 and AGW2

Single-side and double-side

- A series of self-propelled 3 o'clock welding equipment, primarily developed for on-site erection of large storage tanks, silos, blast furnaces and similar cylindrical objects.
- Available as a single-side version and a double-side version.
- Designed to travel on the top edge of the tank shell.
- As there are different ways of building tanks, one machine in the series is designed to travel on a rail which is temporarily fixed to the shell or on a stand-alone ring outside the shell.
- The operator of each machine (if a double-side version) rides in a cabin, where he supervises and controls the welding process with the control panel within easy reach.
- The cabin, whose floor level under the carriage is variable to suit the height of the plate, is built as a cage to give the operator(s) maximum safety and comfort.
- For weather protection the cage can be covered by curtains.
- The cabin of a double-side machine is equipped with step ladders and a joining bridge at the top to facilitate for the operators to climb onboard. The bridge also has guard rails for the safety of the operators.

Ordering information

Tank welder single-side, AGW1	0370 250 700	
Tank welder double-side, AGW2	0370 250 702	
Sales Literature	XA00145220	

Options & Accessories

Transportable stand AGW1	0370 250 703
Transportable stand AGW2	0370 250 704
Set of cables, 95 mm ² (75 & 25 m)	0370 250 705
Cabine light	0370 250 706



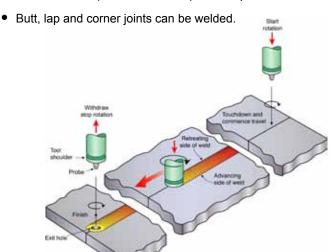
Technical data	AGW1	AGW2
Carry load, kg (lbs.)	300 (661)	300 (661)
Shell height, mm (in.)	1800-3500 (70.8-137.8)	1800-3500 (70.8-137.8)
Height increment, mm (in.)	100 (3.9)	100 (3.9)
Max. shell thickness, mm (in.)	50 (1.96)	50 (1.96)
Min. side clearance, mm (in.)	1450 (57)	1450 (57)
Travel speed, mm (in.)	244-2440 (9.6-96.06)	278-2780 (10.9-109.4)
AC motor travel, kW	1x0.55	2x0.55
AC inverter travel, kW	1x1.1	1x1.1
IP classification (motor)	IP55	IP55
IP classification (electrical)	IP43	IP43
Max. flux hoist, kg (lbs.)	70 (154.3)	70 (154.3)
Electrical panel	yes	yes
Dimensions, LxWxH, mm (in.)	1440x5836x2102 (56.7x229.8x82.8)	2210x5836x2120 (87x229.8x83.5)
Weight, kg (lbs.)	1300 (2866)	1460 (3219)

Special Applications

Friction Stir Welding

Quality in depth

- The Friction Stir Welding (FSW) method is based on the principle of obtaining a sufficiently high temperature and pressure to join two components together by using a rotating tool, which under high pressure, moves along the joint and thereby creates a weld.
- FSW is ideal for joining straight profiles and flat plates from 1.2 to 130 mm (0.045 - 1.18 inch) with full penetration.



Suitable application areas

- Shipbulding / Offshore platforms
- Aerospace industry
- Railway wagons, trams, underground train carriages
- Automotive industry
- Production of electric motors
- Defence industry
- · Cooling elements
- Basically all aluminium, copper and magnesium alloys can be Friction Stir welded with high quality and speed.





Key benefits

- Minimal distortion and shrinkage
- No joint preparation degreasing only
- No grinding, polishing or straightening
- No repair welding
- Reduced weight (40% less than GMAW)
- High joint-gap tolerance
- Consistent weld quality
- Increased tensile strength
- Outstanding fatique properties
- No fumes, sparks or spatter
- Low noise level
- Simple operation (HMI)
- Improved repeatability

SuperStir™ Friction Stir Welding System

The ESAB SuperStir™ range is purpose-built for high-volume production of large aluminium panels, girders and trusses. The large custom-designed units offer a safe, clean and simple welding process that can be fully automated, dramatically reducing production costs.

ESAB SuperStir™ FSW technology is applied across the entire industrial spectrum, from shipping, offshore, construction and transportation to defence and aerospace.



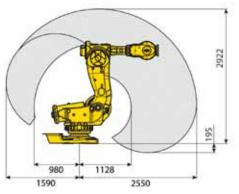
Friction Stir Welding

Cont.

LEGIO™ Friction Stir Welding System

- The modular system makes it possible to assemble welding stations to suit the most varied Friction Stir welding applications.
- The LEGIO[™] system consists of 5 basic designs in a series of seven sizes, covering a welding depth of 1.2 to 65 mm (0.045 to 2.4 in.)
- These basic types can be supplemented with different types of equipment to suit the most varied production needs with maximum flexibility to any production line.
- The larger S- and the U-models are designed to be easily integrated with larger fixtures, rotary units and exchangeable clamping systems.
- For the production of smaller workpieces, the UT- and the ST-model are the most suitable. They have tables prepared with a hole pattern, where fixtures can be attached.







Rosio™ Friction Stir Welding Robot

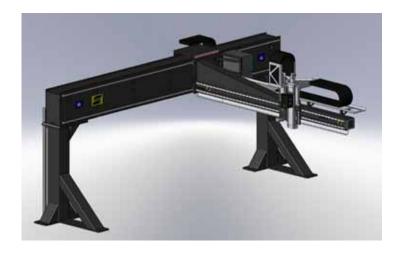
- Designed for complex joints.
- The latest IRC5 control system, featuring embedded force control, ensures high accuracy in-contact motion.
- The upgraded motion software permits linear welding in arbitrary patterns, as well as circular and square paths.
- Additional functionalities to support customized path programming and spindle operation, permit advanced welding, even with limited programming skills.
- A user-friendly HMI extends the IRC5 interface, providing full operator feedback via a Flex Pendant.

Rosio™
1-7 (0.04-0.28) 1-6 (0.04-0.24) 1-5 (0.04-0.20) 1-5 (0.04-0.20)
>1000 (39.4)
3000
13
2550 (100.4)
1206.5 x 1200 (47.4 x 47.2)
2500 (5511.55)
2160x725x710 (85.04x28.54x27.95)
250 (551.16)
()

Hybrio[™] - Hybrid Laser Welding

Lighting the way

- ESAB's Hybrio[™] hybrid laser welding technology combines the deep weld penetration and low heat input associated with laser welding with the excellent weld properties and superior gap tolerance of gas metal arc welding (GMAW).
- A radically new welding alternative, it produces extremely narrow and deep welds at very high travel speeds. In a single pass, the Hybrio[™] process can often achieve what might require multiple weld passes using a conventional fusion welding process.
- Heat input to the part is reduced, as is the associated weld shrinkage and distortion that can make post-welding geometry unpredictable - and costly to repair.
- Using GMAW in combination with a laser, the Hybrio[™]
 process solves laser-only welding's limitations, concerning its
 ability to produce acceptable welds in joints with less than
 perfect fit-up between parts. This enables a widened, more
 robust process envelope by a factor of three compared
 to a conventional laser-only process.
- GMAW also allows users to add filler metal to adjust the weld's
 metallurgical properties and create beads and fillets, while the
 slower cooling rate reduces hardness. These features are especially beneficial when joining high performance carbon and
 stainless steels.
- ESAB's exclusive adaptive closed-loop control system detects joint fit-up conditions and changes the process parameters in real-time to achieve a constant weld profile. This broadens the process window by a further 5 times over non-adaptive control.



Ordering information

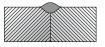
For more information, please contact your nearest ESAB representative.

Sales Literature

XA00153320



GMAW (MIG/MAG)



Autogenous Laser (laser only)



Hybrid Laser Welding



Graphic illustrating differences between GMAW, Laser and Hybrid Laser Welding weld profiles

The Hybrio™ Value Proposition:

- Operating costs reduced by 50-80%.
- Productivity improved by 300-1000%.
- Heat input and distortion reduced by 80-90%.
- Reduced weld repair rates.
- Reduced labour content through fully automated operation.
- Reduced operator skill requirement due to easy, PC-bamachine controller.
- Lower downstream assembly, welding and finishing costs, through reduced part distortion.
- Higher overall plant throughput and revenue generation.
- Feasibility of new, lighter, stiffer and simpler product design and construction methods.
- Full backing and support of ESAB's process experts and service professionals, with extended warranty and service agreements.



Hybrio[™] - Hybrid Laser Welding

Cont.

Hybrio™ Flex

The Hybrio[™] Flex flexible hybrid laser welding cell is based upon a modular, six-axis motion system platform that can be scaled to cover a large range of working envelopees up to 4m x 20 m and longer. Additionally, this system can be configured to cover a range of Z-axis depths from 1 m to 3 m (3 to 10 ft.). This gives the user the flexibility to use the Hybrio[™] Flex system for large variety of product geometries and weld joint configurations.

Hybrio™ Beam

The Hybrio™ Beam hybrid laser beam welding system is based upon ESAB's robust submerged-arc beam welding systems that can be found in plants around the world. These systems come in horizontal and vertical configurations and are designed to center and feed web and flange parts through a fixed welding station. Components are aligned and press-sed together ensuring excellent joint conditions at the point of welding. Equipped with the Hybrio™ process, these systems can out-produce traditional beam welding equipment by a factor of three to ten times depending upon the web thickness.

Hybrio™ Seam

Hybrio™ Seam hybrid laser seam welding systems cover a range of raw sheet and plate thicknesses and sizes from small sheet and coil joining systems to large panel line plate welding machines. These systems are designed to press and clamp sheet or plate joints into position as the Hybrio™ process moves along the joint, performing the weld. These systems can achieve single-side, full-penetration butt welds up to 12.5 mm (1/2 in.) in thickness in a single pass and thicker with subsequent passes.

Hybrio™ Tube

Hybrio™ Tube hybrid laser tube and pipe systems are longitudinal seam welding systems designed to press the material together at the weld joint to achieve the fit up needed for HLAW welding. The part is then drawn through the machine to perform the weld. These systems can produce straight or tapered tubes and pipes up to 1 m (3 ft.) in diameter and with wall thicknesses up to 12.5 mm (1/2 in.).

Hybrio™ Orbit

The Hybrio™ Orbit hybrid laser pipe girth welding system is specially designed for welding full pipe girths as well as for rapidly producing high-quality root passes for subsequent processing with traditional high-deposition processes. These are fully orbital welding systems, capable of 360 degree continuous welds around cylindrical products with very low clearances. The Hybrio™ Orbit system was specifically developed for the oil and gas industry, but has applications in many other industry segments.

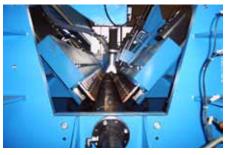
Hybrio™ Process Package for Integrators

ESAB's Hybrio™ hybrid laser arc welding process technology leads the industry in ease of use and process robustness. ESAB has developed a fifth-generation welding system that is capable of sensing its environment, the joint location and fit-up and then adapting the process in real-time to maintain high weld quality over a wide range of fit-up conditions. ESAB has built

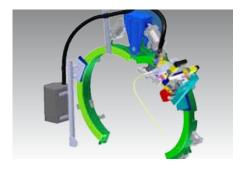
this technology into a complete process package that is available not only as part of our turnkey hybrid welding systems but also to machine tool OEM and system integrators. ESAB provides the hybrid welding expertise along with the support of our Laser Process Centers in North America and Europe, to minimize the technical risk to our OEM and integration partners worldwide.











HNG Multi

Narrow Gap Welding System

- Designed for both Single (AC or DC) and tandem (DC/AC or AC/AC) wire welding in parallel or almost parallel joints, ranging in width from 18 mm (0.71 in.) and in depth down to 350 mm (13.8 in.).
- Continuous double-sided joint tracking gives a high reliability at shift overlap.
- · Continuous measuring of joint width
- Short-circuit protected, welding head workpiece.
- · Automatic positioning.
- Possible to weld up to 50 mm (1.97 in.) joint width
- · Air-cooled torch
- Reliable and uniform high weld quality
- High productivity.
- Minimum of supplementary work.

Technical data	
Weld joint type	Butt
Wire dimension, mm (in.)	3-4 (0.12-0.16)
Wire feed motor	A6 VEC 156:1, 4000 rpm
Max. wire feed speed, m/min (ipm.)	4 (157)
Max welding current DC, A	800
Max welding current AC, A	800
Beads in each layer	2-4
Deposition rate, kg/h (lbs./h)	approx. 7/16 (15.4/35.3) (Single/Tandem)
Tilting angle of weld nozzle	± 3.5°
Max. joint depth, mm (in.)	350 (13.8)
Joint width, mm (in.)	18-50 (0.71-1.97)
Wire angle between wires	15°
Distance between wires, mm (in.)	15 (0.59) (valid for 30 mm (1.18) stick-out)
Accuracy of joint tracking, mm (in.)	± 0.15
Max heat resistance, workpiece, °C (°F)	300 (572)
Min weld diameter, mm (in.)	500/1200 (19.7/47.2) Single/Tandem
Flux hopper unit	OPC Super
Flux hopper capacity, I (gal.)	approx. 10 (2.64)
Min clearance internal weld - Longitudinal, Ø mm (in.) - Circumferential, Ø mm (in.)	1500 (59.06) 1500 (59.06)
Weight, kg (lbs.)	140/165 (309/364) (Single/Tandem)



Ordering information

For more information, please contact your nearest ESAB representative.





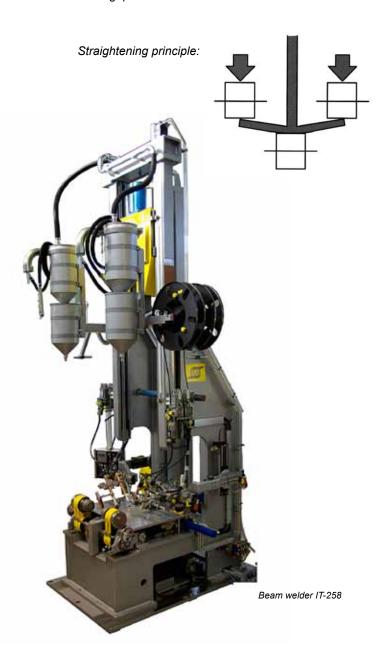
Double-sided joint tracking



Beam Welding - Pull Through Welders

For welding of beams and profiles

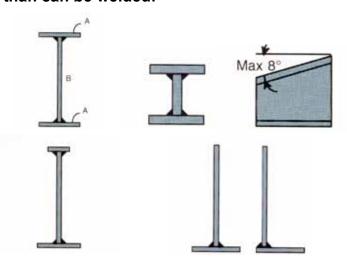
- ESAB offers a complete and effective way of welding beams and profiles. Whether you weld I-, T- or L-beams, wide flange beams, columns, tapered beams or non-symmetrical beams, ESAB has the expertise and welding equipment to match your efficiency, quality, precision, versatility, productivity, and overall welding economy requirements.
- Two types of machines: IT-machines where the beams are welded with the web unit in the vertical position, and I-machines, where the beams are produced in horizontal position.
- · High production capacity and perfect weld quality.
- The welding operation takes place when the flange and the web are pressed together under pressure in order completely to eliminate the gap between the surfaces.





Total range of beam sizes that can be welded:				
Machine type Web Flange				
IT-258	200-2500 mm	100-800 mm		
IT-158	200-1500 mm	100-800 mm		

Examples of beams than can be welded:



Welding solutions for Pipemills

Our experience and knowledge - your benefit!

Flexible, reliable welding equipment

A wide range of products developed in-house for various multi-wire SAW applications which are particularly suitable for pipe welding.

Precise, high-speed longitudinal welding

Our concept for longitudinal submerged-arc welding is suitable for pipes in a normal diameter range of 20-64", a normal wall thickness of 6-40 mm (0.24-1.57 in.) and a length of up to 18 m (708.66 in.).

Internal and external welding

For internal welding we have designed pre-stressed booms as well as welding heads for up to four wires.

The external welding station is based on a column and boom solution with a very stable cross-slide to adapt to different pipe diameters.

Return current systems (grounding)

High current circuits have to be closed back to the power source by efficient systems at constantly moving pipes. Flexible steel brushes in two rows in front and behind the welding process are pressed with defined force from outside to the pipe to catch the current with a minimum of voltage loss and to surely avoid any arc blow effect, which would disturb the weld process.

Problem-free flux and wire feed systems

Smooth feeding of wire in different diameters and equally straightforward supply of new and re-used flux.

The correct combination of compressed air, flux feeding, easy replenishment of new flux via the Big/Bag system, a vacuum unit, a reliable magnetic separator and continuous recovery helps to create welding stations with less downtime, high-quality welds and a cleaner working environment.

Spiral pipe welding

Internal and external welding is performed at one and the same station. Internal welding starts first and, after half a turn, external welding then begins - internally with two or in some cases three wires and externally with one or three wires in the welding process, depending on the diameter and wall thickness of the pipe.

Ordering information

For more information, please contact your nearest ESAB representative.



Internal welding



External welding



Windmill Tower Manufacturing

Dedicated solutions for dedicated manufacturers

- The key to efficient production of wind towers is smooth component flow in the workshop. The benefit of a high deposition welding process is completely lost if the set-up or handling of components in any area of the process fails or takes an unacceptable amount of time.
- ESAB can assist with the welding and cutting process in wind tower production and deliver finely tuned solutions for each step in the production process.
- With a complete package from ESAB, you only need to work with one supplier for product, service and support. This results in a large project being organized efficiently, with a fixed cost and agreed time schedule. Smooth production flow is part of the complete delivery.





Oxy-fuel or plasma cutting of plate and seam preparation



Submerged-arc welding of flanges and supports



Rolling, forming and tack welding of the shell



Joining of shell sections using roller beds with hydraulic fit-up system. Internal and external submerged-arc welding performed by a column and boom station.

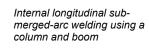


External longitudinal submerged-arc welding using a column and boom



Automatic welding of the door frame.







Production of sub-components using an ESAB positioner and manual welding equipment

ESAB Retrofit

Modernization and upgrading

- ESAB's service group can upgrade any brand of existing equipment to virtually new condition, with the latest process equipment and accessories.
- Accessories include seam trackers, flux recovery systems, wire handling equipment, strip cladding equipment - all can be added to existing equipment.
- Material quality, thickness and required properties will decide the
 most suitable welding process. Over a time these conditions will
 change which might lead to a change of process. ESAB can
 offer a variety of different welding heads for different processes
 to be fitted on any carrier.
- ESAB Retrofit is an ideal alternative to investment in new equipment. Not least when it comes to the added values that frequently accompany this kind of upgrade.
- In addition to increased availability, a conversion of this kind frequently also leads to a substantial rise in productivity and quality, not to mention improvements to the working environment.
- ESAB works with many OEM's for equipment specify the ESAB process system and accessories and get the advantage of ESAB performance from your existing supplier of machinery.





Why Retrofit?

- It is difficult to find parts for your old equipment
- The productivity is too low with your present equipment
- The quality of the process is unacceptable
- The process is not ideal for the present production

Time to Retrofit? What kind of carrier can be retrofitted?

- ESAB can retrofit manipulators, gantries, seamers, shipyard panel lines etc. We even retrofit flash butt welding machines to a new life.
- Integration of welding equipment to new carriers or production lines produced by integrators of automation equipment for example pipemills, panel lines etc.
- We do small retrofits by just replacing the existing equipment and we do large integrated solutions.

World leader in welding and cutting technology and systems



ESAB operates at the forefront of welding and cutting technology. Over one hundred years of continuous improvement in products and processes enables us to meet the challenges of technological advance in every sector in which ESAB operates.

Quality and environment standards

Quality, the environment and safety are three key areas of focus. ESAB is one of few international companies to have obtained the ISO 14001 and OHSAS 18001 standards in Environmental, Health & Safety Management Systems across all our global manufacturing

At ESAB, quality is an ongoing process that is at the heart of all our production processes facilities worldwide. Multinational manufacturing, representation an international network of independent distributors brings the benefits of ESAB quality and unrivalled expertise in materials and processes within reach of all our customers, wherever they are located.



* Includes manufacturing facilities of ESAB North America. A wholly owned subsidiary of Anderson Group Inc.



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