

# HIP & ROBOTIC WELDING SOLUTION CATALOGUE







## **SKYSCRAPERS. MUSCLE CARS. WIND TURBINES. OIL RIGS. GENERAL INDUSTRY.**

work we do varies greatly, but our commitment to that work and to how fabrication moves the world forward is a constant that keeps us all reaching for more.

As fabricators and fabricators' friends, we do some pretty epic work. And none of it would be possible without each and every one of us – the welders, the distributors, the engineers, the tools of the trade. Across the welding and fabrication world, the skills we have and the everyday

Together, **we shape the future** of welding and cutting.

# PRODUCT CATEGORIES



## HIP

## 01

## 02

Multi-process  
Equipment

MMA/TIG Equipment

## 03

Wire Feeder

## 04

MIG & TIG Torch

## 05

Robotic Welding  
Solution

### VISIT OUR WEBSITE FOR MORE INFORMATION ON:

- ARC WELDING EQUIPMENT
- FILLER METAL
- ROBOTS / WELDING AUTOMATION
- GOUGING EQUIPMENT
- ARC WELDING ACCESSORIES
- PLASMA CUTTING
- CUTTING AUTOMATION
- PERSONAL PROTECTIVE EQUIPMENT
- GAS CONTROL EQUIPMENT
- TD CUTTING AUTOMATION

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## Arc Welding Processes

### Gas Metal Arc Welding (GMAW, MIG)



This most flexible metal joining process involves an arc established between the workpiece and a wire electrode, which is continuously fed by a wire feeder through a torch.

The arc continuously melts the electrode to form the weld puddle.

An appropriate gas or gas mixture shields the weld area from atmospheric contamination.

The GMAW process has the advantages of high deposition rates, speed, excellent weld quality, minimal distortion of the workpiece, and no stub loss.

GMAW applications include several distinct process variations. Selection depends largely on the workpiece thickness and welding position:

#### Short Circuiting (Short Arc, Dip Transfer)

Involves a small fast-freezing weld puddle. Metal is transferred from the electrode to the puddle by repeated short circuits. Small diameter wires are used and the process operates at low currents and voltages. Short arc is used for welding thin gauge metals in all positions and for vertical and overhead welding of heavier sections.

#### Spray Arc

Electrode metal is transferred to the weld puddle as discrete droplets. Deposition rate is high and there is little or no spatter. With solid wire, the technique is used for 1/8 in. (3.2 mm) and thicker workpieces and for downhand welding.

#### Pulsed Spray Arc

The welding current is varied rapidly between a high and a low value. Metal is transferred to the work only during the high current period. The high peak current provides excellent arc stability. The period of low current maintains the arc and reduces the average current, making it possible to weld thinner gauge materials and to weld in all positions using larger sized wire electrodes than otherwise possible.

#### Cored Wire (FCAW, MCAW)

The electrode is fabricated from strip, enclosing a core of flux and metal which protects and refines the weld puddle and controls bead shape. Some cored wires can be used without external shielding gas. Smaller diameter wires can be used for all position welding. The addition of fluxing, alloy and slag-forming materials often allows high deposition rates, higher welding speeds and improved all-position capability compared with solid wires. This makes cored wire the material of choice in many high-production applications.

### Shielded Metal Arc Welding (SMAW, MMA)



In this first practical arc welding process, the arc is established between a wire rod and the workpiece. The rod is coated with materials, which generate a gas and form a slag to protect the weld puddle and the solidifying weld metal from the atmosphere.

The coating may also supply alloying and refining ingredients, and the slag may help shape the weld bead, especially in vertical and overhead applications.

Electrodes are available for welding most carbon, low alloy, and stainless steels, some non-ferrous metals, and a wide range of maintenance and repair applications.

Light-duty work is often done with AC power from low cost transformers; production work usually involves DC power from heavy-duty rectifiers.

### Gas Tungsten Arc Welding (GTAW, TIG)



Introduced by ESAB, the GTAW process produces welding heat from an arc between a non-consumable tungsten electrode and the workpiece. An inert gas, usually Argon, shields the arc and the workpiece.

Welding consumables, if used, are added separately. Because the process uses totally inert shielding gas, welds of the highest quality are produced, and almost any metal can be welded.

#### Additional Technical Information

ESAB Technical Service Representatives are available to answer your questions. We also recommend that you take advantage of a series of handbooks published by ESAB which provide excellent guidance on the use of the arc welding processes.

In addition, there are references from other sources which can be very helpful in achieving the best possible results.

Contact your local ESAB representative to find out more.

# // HEAVY INDUSTRY PRODUCT



(HIP)



**Warrior™ EDGE 500 DX**

Powerful multi-process welding power source

**PRECIDRIVE****SPOOLSAFE**  
PROTECTS YOUR WIRE

IP54



WeldCloud

**Specifications**

<b>Mains Voltage</b>	380 - 460 V $\pm 10\%$ , 3ph, 50/60 Hz
<b>Welding Output GMAW (MIG/MAG)</b>	500 A / 39.0 V at 60% Duty Cycle 400 A / 34.0 V at 100% Duty Cycle
<b>Welding Output SMAW (MMA)</b>	500 A / 40.0 V at 60% Duty Cycle 400 A / 36.0 V at 100% Duty Cycle
<b>Welding Output GTAW (TIG)</b>	500 A / 30.0 V at 60% Duty Cycle 400 A / 26.0 V at 100% Duty Cycle
<b>Setting Range GMAW (MIG/MAG)</b>	16 A / 14.8 V - 500 A / 39 V
<b>Setting Range SMAW (MMA)</b>	16 A / 20.6 V - 500 A / 40 V
<b>Setting Range GTAW (TIG)</b>	5 A / 10.2 V - 500 A / 30 V
<b>Standby Power</b>	43 W
<b>Open Circuit Voltage</b>	54.8 V
<b>Efficiency at Max Current MIG/MAG</b>	88%
<b>Power Factor at Max Current MIG/MAG</b>	0.93
<b>Dimensions L x W x H</b>	700 x 325 x 680 mm
<b>Weight</b>	85 kg
<b>Operating Temperature</b>	-20 - +55°C
<b>Enclosure Class</b>	IP23
<b>Application Class</b>	S
<b>Insulation Class</b>	H
<b>Certification Mark (Standards)</b>	CCC
<b>Cooling Unit, Integrated</b>	
<b>Cooling Power</b>	1.4 kW
<b>Coolant Volume</b>	4.7 l
<b>Max Flow</b>	2.0 l/min
<b>Max Pressure</b>	4.5 bar

**Ordering Information**

Warrior Edge 500 DX (incl. SPEED, THIN, ROOT), 380-460 V, CCC | 0446300895

Warrior Edge 500 DX is an easy-to-use, high- performing and connected multi-process welding machine featuring the WeldModes Pulse, SPEED, THIN and ROOT.

- High performance WeldMode THIN reduces spatter levels and helps reduce distortion when welding thin plates
- With a gap bridging ability, the easy to control ROOT
- WeldMode is optimized for root passes
- Adaptive optimized Pulse MIG process that compensates for operator variation with an easy, user-friendly setup designed to achieve excellent weld results
- Fit for purpose WeldMode SPEED provide a focused arc that allows the welder to better and easier handle the weld pool at higher travel speeds increasing the productivity
- Integrated 1.4 kW high performance cooling unit
- Integrated WeldCloud connectivity

**RobustFeed Edge Features**

- TrueFlow, the digital gas flow control system from ESAB, effectively manages shielding gas both in starts and while welding thus improving quality and decreasing consumption
- Effective and quick to set-up operator management system with key card that allows locking down quick- jobs with setting limits improves repeatability and adherence to welding procedure Specifications
- The 2021 Red Dot design award winning design provides well-designed ergonomics and intuitive user interface that reduces training needs for operators
- SpoolSafe - unique in the market IP54 protection against dirt/ dust, keeping your wire dry and clean, protecting the integrity of your weld
- A hybrid HMI solution with material selection and configurations on a TFT-screen inside the unit with a clear and easy to use external display for everyday operation makes unit easy to operate
- Integrates with the Exor DX torch models graphic display remote without the need for additional connectors

**Wire Feeder & Control Panel**

RobustFeed Edge BX, Water-cooled, Euro	0446600880
RobustFeed Edge CX, Water-cooled, Digital Gas Control, Heater, Euro	0446600881

For complete list of wire feeder accessories and interconnection cables please see separate fact sheets or instruction manuals.



# Warrior™ EDGE 500 DX

Options & Accessories			
Coolant 10 l.	0465720002	RobustFeed Wheel Kit *	0446081880
4-wheel Trolley, Power Source	0349313450C	Guide Pin Extension Kit *	0465508880
Counterbalance Arm RobustFeed **	0448181880	Torch Holder Assembly RobustFeed	0446958880
Counterbalance Arm Extension Kit for use with 6m and 7.5m torches	0448116880	Torch Strain Relief RobustFeed	0446082880
Stabilizer Kit for Counterbalance Arm **	0460946880	Boom Adaptor (Lifting Device)	0446956880
Wheel Kit, Power Source	0465416880	Quick Connector Marathon Pac	F102440880
Feeder Mounting Kit, Power Source Assembly incl cable holders	0447518880	4-wheel Feeder Trolley for >300 mm Spools	0349313700

\* Extension Kit 0465508880 required when Wire Feeder Wheel Kit is used in combination with Trolley 0349313450C.

\*\* Stabilizer Kit 0460946880 required when Counterbalance is used in combination with Trolley 0349313450C.



Exeor MIG 4.0G2, 4.0G2 CX and 4.0G2 DX Torches

MIG Torches	3 m	4 m	5 m
Exeor MIG 4.0G2, Gas-Cooled *	0700025752	0700025753	0700025754
Exeor MIG 4.0G2 CX, Gas-Cooled, Up/down **	0700025755	0700025756	0700025757
Exeor MIG 4.0G2 DX, Gas-Cooled, Graphic Display***	0700025758	0700025759	0700025760
Exeor MIG 4.0W2, Water-Cooled *	0700025727	0700025728	0700025729
Exeor MIG 4.0W2 CX, Water-Cooled, Up/down **	0700025730	0700025731	0700025732
Exeor MIG 4.0W2 DX, Water-Cooled, Graphic display ***	0700025733	0700025734	0700025735

\* Torch with enhanced cooling performance.

\*\* Torch with enhanced cooling performance. Includes Torch LED light and CX remote for JOB selection / WFS / V, 2T/4T.

\*\*\* Torch with enhanced cooling performance. Includes Torch LED light and DX graphical display remote for JOB selection / WFS / V / 2T/4T / Measure values, Arc Dynamics.

For more information on Exeor torches please see separate fact sheets.

RobustFeed Interconnection Cables (Length)	2 m	5 m	10 m	15 m	20 m	25 m	35 m
70 mm <sup>2</sup> , Gas-Cooled, strain relief	0446310880	0446310881	0446310882	0446310883	0446310884	0446310885	0446310886
70 mm <sup>2</sup> , Water-Cooled, strain relief	0446310890	0446310891	0446310892	0446310893	0446310894	0446310895	0446310896
95 mm <sup>2</sup> , Gas-Cooled, strain relief	0446310980	0446310981	0446310982	0446310983	0446310984	0446310985	0446310986
95 mm <sup>2</sup> , Water-Cooled, strain relief	0446310990	0446310991	0446310992	0446310993	0446310994	0446310995	0446310996

<b>Trolley</b> Part Number: 0349313450C RobustFeed	<b>Wheel Kit</b> Part Number: 0465416880	<b>Guide Pin Extension Kit</b> Part Number: 0465508880 Extension Kit required when Wire Feeder Wheel Kit is used in combination with Trolley.	<b>Quick Connector Marathon Pac</b> Part Number: F102440880 Allows connection of QCA Adaptor to inlet.

**Warrior™ Edge 500 CX**

Powerful multi-process welding power source

**PRECIDRIVE****SPOOLSAFE**  
PROTECTS YOUR WIRE  
IP54

WeldCloud

**eco POWER**Multi-Process  
Equipment

Specifications	
Mains Voltage	380 - 460 V $\pm 10\%$ , 3ph, 50/60 Hz
Welding Output GMAW (MIG/MAG)	500 A / 39.0 V @ 60% Duty Cycle 400 A / 34.0 V @ 100% Duty Cycle
Welding Output SMAW (MMA)	500 A / 40.0 V @ 60% Duty Cycle 400 A / 36.0 V @ 100% Duty Cycle
Welding Output GTAW (TIG)	500 A / 30.0 V @ 60% Duty Cycle 400 A / 26.0 V @ 100% Duty Cycle
Setting Range GMAW (MIG/MAG)	16 A / 14.8 V - 500 A / 39 V
Setting Range SMAW (MMA)	16 A / 20.6 V - 500 A / 40 V
Setting Range GTAW (TIG)	5 A / 10.2 V - 500 A / 30 V
Standby Power	43 W
Open Circuit Voltage	54.8 V
Efficiency at Max Current (MMA)	89%
Power Factor at Max Current (MMA)	0.91
Efficiency at Max Current MIG/MAG	88%
Power Factor at Max Current MIG/MAG	0.93
Dimensions L x W x H	700 x 325 x 680 mm
Weight	85 kg
Operating Temperature	-20 - +55°C
Enclosure Class	IP23
Application Class	S
Insulation Class	H
Certification Mark (Standards)	CCC
Cooling Unit	
Cooling Power	1.0 kW
Coolant Volume	4.5 l
Max Flow	1.8 l/min
Max Pressure	4.6 bar

**Ordering Information**

Warrior Edge 500 CX, 380 V, ++CCC

0448500887

Warrior Edge 500 CX is an easy-to-use, high-performing and connected multi-process welding machine.

Featuring integrated WeldCloud connectivity, the wire feeder RobustFeed Edge offers increased productivity and improved quality management, with wire and gas consumption tracking.

Equipped with TrueFlow, ESAB's digital gas flow control system, RobustFeed Edge effectively manages consumable resources, both in starts and while welding, thus reducing overall resource consumption.

Additional features include an adaptive optimized pulse MIG process that compensates for operator variation with an easy, user-friendly setup designed to achieve excellent weld results.

- Fit for purpose weld mode SPEED that provides a focused arc that allows the welder to better and easier handle the weld puddle at higher travel speeds thus increasing the productivity
- Integrated, 1.4 kW high performance cooling unit

**RobustFeed Edge**

- Effective and quick to set-up operator management system that allows locking down quick-jobs with setting limits improves repeatability and adherence to welding procedure Specifications
- The 2021 Red Dot design award winning design provides well-designed ergonomics and intuitive user interface that reduces training needs for operators
- SpoolSafe - unique in the market IP54 protection against dirt/dust, keeping your wire dry and clean, protecting the integrity of your weld
- PreciDrive wire drive system maintains precision
- wire feeding performance to promote consistent weld quality
- A hybrid HMI solution with material selection and configurations on a TFT-screen inside the unit with a clear and easy to use external display for everyday operation makes unit easy to operate

**Wire Feeder & Control Panel**

RobustFeed Edge BX, Water-cooled, Euro	0446600880
RobustFeed Edge CX, Water-cooled, Digital Gas Control, Heater, Euro	0446600881

For complete list of wire feeder accessories and interconnection cables please see separate fact sheets or instruction manuals.



# Warrior™ Edge 500 CX

Options & Accessories			
Cool 2	0465427880CN	RobustFeed Wheel Kit *	0446081880
Coolant 10 l.	0465720002	Guide Pin Extension Kit *	0465508880
4-wheel Trolley, Power Source	0349313450C	Torch Holder Assembly RobustFeed	0446958880
Counterbalance Arm RobustFeed **	0448181880	Torch Strain Relief RobustFeed	0446082880
Counterbalance Arm Extension Kit for use with 6m and 7.5m torches	0448116880	Boom Adaptor (Lifting Device)	0446956880
Stabilizer Kit for Counterbalance Arm **	0460946880	Quick Connector Marathon Pac	F102440880
Wheel Kit, Power Source	0465416880	4-wheel Feeder Trolley for >300 mm Spools	0349313700
Feeder Mounting Kit, Power Source Assembly incl cable holders	0447518880		

\* Extension Kit 0465508880 required when Wire Feeder Wheel Kit is used in combination with Trolley 0349313450C.

\*\* Stabilizer Kit 0460946880 required when Counterbalance is used in combination with Trolley 0349313450C

MIG Torches	3 m	4 m	5 m
Exeor MIG 4.0G2, Gas-Cooled *	0700025752	0700025753	0700025754
Exeor MIG 4.0G2 CX, Gas-Cooled, Up/down **	0700025755	0700025756	0700025757
Exeor MIG 4.0G2 DX, Gas-Cooled, Graphic Display***	0700025758	0700025759	0700025760
Exeor MIG 4.0W2, Water-Cooled *	0700025727	0700025728	0700025729
Exeor MIG 4.0W2 CX, Water-Cooled, Up/down **	0700025730	0700025731	0700025732
Exeor MIG 4.0W2 DX, Water-Cooled, Graphic display ***	0700025733	0700025734	0700025735

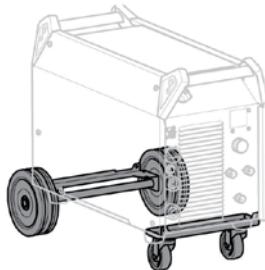
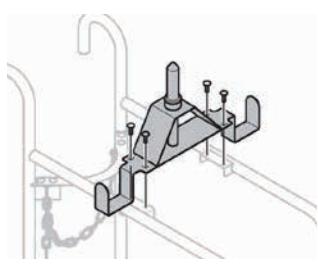
\* Torch with enhanced cooling performance.

\*\* Torch with enhanced cooling performance. Includes Torch LED light and CX remote for JOB selection / WFS / V, 2T/4T

\*\*\* Torch with enhanced cooling performance. Includes Torch LED light and DX graphical display remote for JOB selection / WFS / V / 2T/4T / Measure values, Arc Dynamics

For more information on Exeor torches please see separate fact sheets.

RobustFeed Interconnection Cables (Length)	2 m	5 m	10 m	15 m	20 m	25 m	35 m
70 mm <sup>2</sup> , Gas-Cooled, strain relief	0446310880	0446310881	0446310882	0446310883	0446310884	0446310885	0446310886
70 mm <sup>2</sup> , Water-Cooled, strain relief	0446310890	0446310891	0446310892	0446310893	0446310894	0446310895	0446310896
95 mm <sup>2</sup> , Gas-Cooled, strain relief	0446310980	0446310981	0446310982	0446310983	0446310984	0446310985	0446310986
95 mm <sup>2</sup> , Water-Cooled, strain relief	0446310990	0446310991	0446310992	0446310993	0446310994	0446310995	0446310996

	<b>Trolley</b> Part Number: 0349313450C RobustFeed		<b>Wheel Kit</b> Part Number: 0465416880		<b>Guide Pin Extension Kit</b> Part Number: 0465508880 Extension Kit required when Wire Feeder Wheel Kit is used in combination with Trolley.		<b>Quick Connector Marathon Pac</b> Part Number: F102440880 Allows connection of QCA Adaptor to inlet.
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**Aristo® 500ix**

Portable heavy industrial pulse welding machine

Feed 3004w U8<sub>2</sub>

Feed 3004w MA25 Pulse



RoboFeed 3804w ELP 12p

Aristo 500ix is a portable heavy industrial pulse power source with robust and reliable mechanical design.

Together with Feed 3004w MA25 Pulse or Feed 3004w U82 for Pulse application

Aristo 500ix has thick metal side panels with double bent side panels and large feet providing clearance and making the unit fit for use in tough environments. The large side panels provide easy access for service and maintenance. Ergonomic handles that are safe and marked for crane lifting provide easy logistics.

The unit comes with a sturdy cart featuring dedicated crane lifting points, a torch holder and large cable holders.

- Advanced pulse functionality reduces heat input and minimises spatter
- Up to 250 pre-programmed synergic lines (U8<sub>2</sub> Plus)
- QSet™ intelligent welding system
- Crater filling, adjustable burn back time and SCT (short circuit termination) options for defect-free weld terminations
- Durable and rugged – IP23 rating for outdoor and indoor use in rough environments
- Robotic variant Aristo 500ix integrates DeviceNet/ EtherNet/IP / PROFINET-IO protocol, easy to connect with Robotic.

**Specifications**

<b>Mains Voltage</b>	380 V ±15%, 3ph, 50 / 60 Hz
<b>Welding Output GMAW (MIG/MAG)</b>	500 A / 40.0 V @ 60% Duty Cycle, Robot 100% 400 A / 34.0 V @ 100% Duty Cycle
<b>Welding Output SMAW (Stick)</b>	500 A / 40.0 V @ 60% Duty Cycle, Robot 100% 400 A / 36.0 V @ 100% Duty Cycle
<b>Welding Output GTAW (TIG)</b>	500 A / 40.0 V @ 60% Duty Cycle, Robot 100% 400 A / 26.0 V @ 100% Duty Cycle
<b>Setting Range GMAW (MIG/MAG)</b>	16 A / 14.8 V - 500 A / 39 V
<b>Setting Range SMAW (MMA)</b>	16 A / 20.6 V - 500 A / 40 V
<b>Setting Range GTAW (TIG)</b>	5 A / 10.2 V - 500 A / 30 V
<b>Open Circuit Voltage</b>	58 V
<b>Efficiency at Max Current</b>	90%
<b>Power Factor at Max Current</b>	0.91
<b>Dimensions L x W x H</b>	712 x 325 x 470 mm
<b>Weight</b>	58.5 kg
<b>Operating Temperature</b>	-20 - +40°C
<b>Enclosure Class</b>	IP23
<b>Application Class</b>	S
<b>Insulation Class</b>	H
<b>Certification Mark (Standards)</b>	CCC, CE

# Aristo® 500ix

Ordering Information	
Aristo 500ix, CCC	0447996500
Aristo 500ix, CE for AUS	0447997080
Aristo 500ix, CE for China	0447996618
Aristo 500IX DeviceNet	0447996581
Aristo 500IX EtherNet/IP	0447996582
Aristo 500IX PROFINET-IO	0447996583
Aristo 500IX_Modbus TCP	0447997217

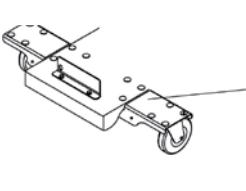
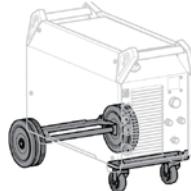
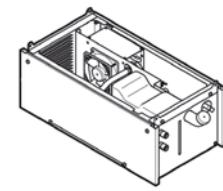
Delivery includes power source, 3 m mains cable and 5 m return cable incl clamp.

Options & Accessories						
COOL 2 Cooling Unit	0465427880CN	Stabiliser kit for Counterbalance Arm			0465509880	
Coolant 10 l.	0465720002	Wheel Kit, power source			0465416880	
Trolley (Robust Feed/Warrior Feed/Aristo Feed)	0349313450C	Counterbalance Arm <sup>2)</sup>			0458705880	
Guide Pin Extension Kit <sup>1)</sup>	0465508880	Quick Connector Marathon Pac			F102440880	
Wire Feeders						
Feed 3004w MA25 Pulse	0447996340	Feed 3004w U8 <sub>2</sub>			0447996640	
Aristo RoboFeed 3804w ELP 12p	0461000892C					
Feed 3004w Interconnection Cables (Length)	1.7 m	5 m	10 m	15 m	25 m	35 m
Gas-Cooled, 70 mm <sup>2</sup>	0459528780C	0459528781C	0459528782C	0459528783C	0459528784C	0459528785C
Water-Cooled, 70 mm <sup>2</sup>	0459528790C	0459528791C	0459528792C	0459528793C	0459528794C	0459528795C
RoboFeed 3804w Interconnection Cables (Length)	5 m	7.5 m	10 m	15 m	25 m	35 m
Gas-Cooled, 95 mm <sup>2</sup>	0740538890C	0740538891C	0740538881C	0740538882C	0740538883C	0740538884C
Water-Cooled, 95 mm <sup>2</sup>	0740538895C	0740538896C	0740538886C	0740538887C	0740538888C	0740538889C
MIG Torches	3 m			4 m		5 m
PSF 415, with Euro Connection	0700025040			0700025041		0700025042
PSF 515, with Euro Connection	0700025050			0700025051		0700025052
PSF 420W, with Euro Connection	0700025060			0700025061		0700025062
PSF 520W, with Euro Connection <sup>3)</sup>	0700025070			0700025071		0700025072

<sup>1)</sup> Extension Kit required when Wire Feeder Wheel Kit is used in combination with Trolley.

<sup>2)</sup> Not for use with RobustFeed. Counterbalance Arm requires Trolley 0349313450C and Stabiliser kit 0465509880.

<sup>3)</sup> With dual-circuit cooling system for less heat, better wire feedability and fewer production stops to change wear parts.

	<b>Stabiliser Kit for Counterbalance Arm <sup>3)</sup></b> Part Number: 0465509880		<b>Trolley</b> Part Number: 0349313450C RobustFeed		<b>Wheel Kit</b> Part Number: 0465416880		<b>COOL 2 Cooling Unit</b> Part Number: 0465427880CN		<b>Counterbalance Arm</b> Part Number: 0458705880 Not for use with RobustFeed
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**Warrior™ 750i CC/CV**

Powerful multi-process welding machine

OPTIMIZED FOR  
**ARCAIR**  
AN ESAB BRAND

Warrior 750i shown with  
RobustFeed PRO

The reliable multi-process welding equipment designed for heavy duty productivity now with an output of up to 850 amps.

- True multi-process package – enables gouging 16 mm electrodes with outstanding performance
- High-Duty Cycle - for long runs across a variety of applications and delivers 820 amps @ 60% duty cycle and 750 amps @ 100%
- Inverter Technology – Warrior brings the outstanding arc performance and energy savings you expect from an inverter, along with increased energy efficiency and more power
- Durable and rugged – suitable for outdoor and indoor use in rough environments. Warrior 750i paired with RobustFeed PRO, with its robust and weatherproof enclosed design provide the ideal solution whenever portability and durability are key
- Easy-to-use – clear and intuitive user interface for everyone to get started quickly. Glove-friendly knobs make adjustments quick and easy.

**Specifications**

<b>Primary Voltage</b>	380 - 460 V ±10%, 3ph, 50/60 Hz
<b>Fuse Slow</b>	63 A @ 400 V (83 A @ 380 V)
<b>Welding Output Arc Gouging (CAC-A)</b>	850 A / 44 V @ 35% Duty Cycle 820 A / 44 V @ 60% Duty Cycle 750 A / 44 V @ 100% Duty Cycle
<b>Welding Output GMAW (MIG/MAG)</b>	820 A / 44 V @ 60% Duty Cycle 750 A / 44 V @ 100% Duty Cycle
<b>Welding Output SMAW (Stick)</b>	820 A / 44 V @ 60% Duty Cycle 750 A / 44 V @ 100% Duty Cycle
<b>Welding Output GTAW (TIG)</b>	820 A / 34 V @ 60% Duty Cycle 750 A / 34 V @ 100% Duty Cycle
<b>Setting Range SMAW (Stick)</b>	15 - 820 A
<b>Setting Range GTAW (TIG)</b>	8 - 820 A
<b>Efficiency at Max Current</b>	91 %
<b>Power Factor Max Current</b>	0.91
<b>Energy Save Mode</b>	31 W
<b>Open Circuit Voltage</b>	89 V
<b>Mains Cable</b>	4 x 16 Ø mm <sup>2</sup>
<b>Operating Temperature</b>	-20 - +40°C (+55°C with derating)
<b>Dimensions LxWxH</b>	850 x 415 x 637 mm
<b>Weight</b>	103 kg
<b>Enclosure class</b>	IP23
<b>Application Class</b>	S
<b>Insulation Class</b>	H

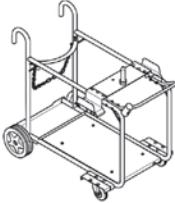
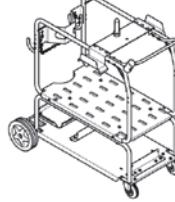
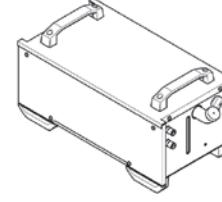
# Warrior™ 750i CC/CV

Ordering Information	
Warrior 750i CC/CV	0445555881

Delivery includes power source, 3 m mains cable and 5 m return cable incl clamp.

Options & Accessories			
Cool2 Cooling Unit	0465427881	Remote control AT1 CoarseFine	0459491897
Coolant 3 gal (10l)	0465720002	Remote Cable AN 8-12 Pole 5 m AT1/AT1 CF	0459552880
Trolley 4-wheel Air-cooled	0446398880	Remote Cable AN 8-12 Pole 10 m AT1/AT1 CF	0459552881
Trolley 4-wheel Water-cooled	0446270880	Remote Cable AN 8-12 Pole 15 m AT1/AT1 CF	0459552882
OKC Adapter Cable	0446507880	Remote Cable AN 8-12 Pole 25 m AT1/AT1 CF	0459552883
Remote control AT1	0459491896		
Gouging Accessories			
Arcair® K4000 Air Carbon-Arc Gouging Torch & Cable, Heavy Duty, (1000A, up to 13 mm round- and 16 mm flat electrodes)			61082008
Arcair® K-5 Air Carbon-Arc Gouging Torch & Cable, Heavy Duty, (1250A, up to 16 mm jointed and half round electrodes)			61104007
Wire Feeders			
RobustFeed Pro	0445800880	Warrior Feed 304, Gas-Cooled	0465250880
RobustFeed Pro, Water-Cooled	0445800881	Warrior Feed 304w, Water-Cooled	0465250881
RobustFeed Pro Offshore (incl. gas flow meter+heater)	0445800882	RobustFeed Pro Offshore, Water-Cooled (incl. gas flow meter+heater)	0445800883
MIG Torches	3 m	4 m	5 m
PSF 415, with Euro Connection	0700025040	0700025041	0700025042
PSF 515, with Euro Connection	0700025050	0700025051	0700025052
PSF 420W, with Euro Connection	0700025060	0700025061	0700025062
PSF 520W, with Euro Connection*	0700025070	0700025071	0700025072

\* With dual-circuit cooling system for less heat, better wire feedability and fewer production stops to change wear parts.

			
<b>Trolley, Air-cooled</b> Part Number: 0446398880	<b>Trolley, Water-cooled</b> Part Number: 0446270880	<b>COOL 2 Cooling Unit, Standalone</b> Part Number: 0465427881	<b>OKC Adaptor Cable</b> Part Number: 0446507880 Order along with 70 mm <sup>2</sup> and 95 mm <sup>2</sup> cables to connect lug to OKC.

## Transmig DP Series

Heavy-duty digital inverter pulse GMAW welder with 100% duty cycle

Transmig 500DP with Feed 304dw, cooling unit and trolley



Transmig DP series double pulse GMAW welding power source is centrally controlled through an ARM chip that adjusts the welding output voltage and current waveform at high speed and delivers super arc stability. It is appropriate for a variety of automation welding applications because it is a multifunctional digital double-pulse GMAW welding power source that can operate continuously at full load in challenging conditions with excellent performance.

Transmig's DP series includes multiple processes like MMA, GMAW, single pulse, and double pulse GMAW, and it can be used to weld mild steel, stainless steel, and aluminum alloy materials. Additionally, because of its superior striking, cratering, and deballing performance, it can be used in a variety of heavy-duty applications in challenging working conditions.

400DP, 500DP come with a robot supporting interface, which can be easily integrated into a robot arc welding system.

- Rich interface functions can meet the needs of digital control
- Full range of 100% heavy-duty output and stable heavy-duty output for 24 hours
- The pulse function can realize spatter-free welding of mild steel and stainless steel and produce excellent weld appearance
- Multiple automatic monitoring functions and outstanding triple-proof design enhance the reliability of the whole machine
- Three-stage parameter settings maximize welding adaptability
- Superior integration performance - can be integrated with Feed 304 wire feeder, COOL W1 water cooler or Trolley P1 welding trolley
- Suitable for automation welding and robot applications

Specifications	Transmig 400DP	Transmig 500DP
<b>Rated Input Voltage</b>	380 V±15%, 50 Hz/60 Hz	
<b>Rated Input Capacity</b>	17.2 kVA	24.7 kVA
<b>Power Factor</b>	0.93	
<b>Rated VRD Voltage for MMA</b>	20±2 V	
<b>Rated Output for MMA</b>	400 A / 36 V	500 A / 40 V
<b>OCV</b>	80 V	
<b>Rated Output for GMAW</b>	400 A / 34 V	500 A / 39 V
<b>Welding Voltage</b>	14 - 34 V	14 - 39 V
<b>Welding Current</b>	30 - 400 A	30 - 500 A
<b>Feeding Speed</b>	2.0 - 22.0 m/min	
<b>Gas Regulator Heating Supply</b>	AC36 V (100 W)	
<b>Welding Process</b>	MMA / GMAW / Pulse / Double pulse	
<b>Welding Material</b>	Mild Steel / Stainless Steel / Aluminum magnesium / Aluminum silicon	
<b>Wire Diameter</b>	Mild Steel 0.8 -1.6mm, Stainless Steel 0.8 -1.6mm, Aluminum magnesium 1.0 -1.6mm, Aluminum silicon 1.0 -1.6mm	
<b>Operating Temperature</b>	-10°C ~ +40°C	
<b>Storage Temperature</b>	-25°C ~ +55°C	
<b>Protection Class</b>	IP21S	
<b>Duty Cycle</b>	100%	
<b>Efficiency</b>	85%	
<b>Insulation Class</b>	F	
<b>External Dimension</b>	760 x 360 x 710 mm	
<b>Net Weight</b>	53.4 kg	

### Ordering Information

Transmig 400DP power source	ICFC960256
Transmig 500DP power source	ICFC960201
Transmig CM EtherNet/IP	ICFC960217
Transmig CM Profinet	ICFC960218

### Options & Accessories

#### Wirefeeder

Transmig Feed 304aw	ICFC960211
Transmig Feed 304dw	ICFC960212
Transmig RobFeed 304R	ICFC960213

#### Robotic Integration Accessories

Digital communication cable/10M/Transmig	ICFC960222
Analog Communication Cable/10M/Transmig	ICFC960284

#### Other Accessories

Trolley P1	ICFC960220
Water cooler/COOL W1	ICFC960221
Gas Regulator GCE/36V/Krass 0870290KR	ICFC960107
Earth Cable 50mm <sup>2</sup> /3M	ICFC960270
Input Power Cable 4X4mm <sup>2</sup> /5M	ICFC960274
Earth Cable 70mm <sup>2</sup> /3M	ICFC960275
Input Power Cable 4X6mm <sup>2</sup> /5M	ICFC960279
Wheel Kit/Transmig Power Source	ICFC960269

## Transmig P Series

Heavy-duty digital inverter pulse GMAW welder with 100% duty cycle



Transmig P series welding power source is a multifunctional digital pulse GMAW welder that is centrally controlled by an ARM chip, which can quickly modify the welding output voltage and current waveform to produce an arc that is extremely stable and performs welds with superior quality. It is appropriate for a variety of automation welding applications because it uses high-efficiency inverter technology to conserve energy and power.

Transmig P series welder includes multiple processes such as MMA, GMAW and single pulse GMAW. Single pulse function that can be used in the welding of mild steel and stainless steel makes it ideal for various heavy-duty applications in harsh working environments.

400P, 500P come with a robot supporting interface, which can be easily integrated into a robot arc welding system.

- Rich interface functions can meet the needs of digital control
- Full range of 100% heavy-duty output and stable heavy-duty output for 24 hours
- The pulse function can realize spatter-free welding of mild steel and stainless steel and produce excellent weld appearance
- Multiple automatic monitoring functions and outstanding triple-proof design enhance the reliability of the whole machine
- Three-stage parameter settings maximize welding adaptability
- Superior integration performance - can be integrated with Feed 304 wire feeder, COOL W1 water cooler or Trolley P1 welding trolley
- Suitable for automation welding and robot applications

Specifications	Transmig 400P	Transmig 500P
<b>Rated Input Voltage</b>	380 V±15%, 50 Hz/60 Hz	
<b>Rated Input Capacity</b>	17.2 kVA	24.7 kVA
<b>Power Factor</b>		0.93
<b>Rated VRD Voltage for MMA</b>		20±2 V
<b>Rated Output for MMA</b>	400 A / 36 V	500 A / 40 V
<b>OCV</b>		80V
<b>Rated Output for GMAW</b>	400 A / 34 V	500 A / 39 V
<b>Welding Voltage</b>	14 - 34 V	14 - 39 V
<b>Welding Current</b>	30 - 400 A	30 - 500 A
<b>Feeding Speed</b>		2.0 - 22.0 m/min
<b>Gas Regulator Heating Supply</b>		AC36 V (100 W)
<b>Welding Process</b>		MMA / GMAW / Pulse
<b>Welding Material</b>		Mild Steel / Stainless Steel
<b>Wire Diameter</b>		Mild Steel 0.8 -1.6, Stainless Steel 0.8 -1.6
<b>Operating Temperature</b>		-10°C ~ +40°C
<b>Storage Temperature</b>		-25°C ~ +55°C
<b>Protection Class</b>		IP21S
<b>Duty Cycle</b>		100%
<b>Efficiency</b>		85%
<b>Insulation Class</b>		F
<b>External Dimension</b>		760 x 360 x 710 mm
<b>Net Weight</b>		53.4 kg

Ordering Information	
Transmig 400P power source	ICFC960251
Transmig 500P power source	ICFC960200
Transmig CM EtherNet/IP	ICFC960217
Transmig CM ProfiNet	ICFC960218

Options & Accessories	
<b>Wirefeeder</b>	
Transmig Feed 364a	ICFC960101
Transmig Feed 364d	ICFC960210
Transmig Feed 304aw	ICFC960211
Transmig Feed 304dw	ICFC960212
Transmig RobFeed 304R	ICFC960213
<b>Robotic Integration Accessories</b>	
Digital communication cable/10M/Transmig	ICFC960222
Analog Communication Cable/10M/Transmig	ICFC960284
<b>Other Accessories</b>	
Trolley P1	ICFC960220
Water cooler/COOL W1	ICFC960221
Gas Regulator GCE/36V/Krass 0870290KR	ICFC960107
Earth Cable 50mm <sup>2</sup> /3M	ICFC960270
Input Power Cable 4X4mm <sup>2</sup> /5M	ICFC960274
Earth Cable 70mm <sup>2</sup> /3M	ICFC960275
Input Power Cable 4X6mm <sup>2</sup> /5M	ICFC960279
Wheel Kit/Transmig Power Source	ICFC960269

## Transmig H Series

Heavy-duty digital inverter GMAW welder with 100% duty cycle



The Transmig H series welding power source is a simple-to-use multifunctional digital GMAW welder that is centrally controlled by an ARM chip that adjusts the welding output voltage and current waveform at high speed, delivering super arc stability, strong adaptability, and a wide range of parameter adjustment. It is appropriate for a variety of automation welding applications.

Including multiple processes such as MMA, GMAW, Synergic GMAW and DPT, Transmig H series welding power source is featured with outstanding performance and can be applied in various heavy-duty applications in harsh working environments.

400H, 500H come with a robot supporting interface, which can be easily integrated into a robot arc welding system.

- Rich interface functions can meet the needs of digital control
- Full range of 100% heavy-duty output and stable heavy-duty output for 24 hours
- The pulse function can realize spatter-free welding of mild steel and stainless steel and produce excellent weld appearance
- Multiple automatic monitoring functions and outstanding triple-proof design enhance the reliability of the whole machine
- Three-stage parameter settings maximize welding adaptability
- Superior integration performance - can be integrated with Feed 304 wire feeder, COOL W1 water cooler or Trolley P1 welding trolley
- Suitable for automation welding and robot applications

Specifications	Transmig 400H	Transmig 500H
<b>Rated Input Voltage</b>	380 V±15%, 50 Hz/60 Hz	
<b>Rated Input Capacity</b>	17.2 kVA	24.7 kVA
<b>Power Factor</b>	0.93	
<b>Rated VRD Voltage for MMA</b>	20±2 V	
<b>Rated Output for MMA</b>	400 A / 36 V	500 A / 40 V
<b>OCV</b>	80 V	
<b>Rated Output for GMAW</b>	400 A / 34 V	500 A / 39 V
<b>Welding Voltage</b>	14 - 34 V	14 - 39 V
<b>Welding Current</b>	40 - 400 A	40 - 500 A
<b>Feeding Speed</b>	2.0 - 22.0 m/min	
<b>Gas Regulator Heating Supply</b>	AC36 V (100 W)	
<b>Welding Process</b>	MMA / GMAW / DPT	
<b>Operating Temperature</b>	-10°C - +40°C	
<b>Storage Temperature</b>	-25°C - +55°C	
<b>Protection Class</b>	IP21S	
<b>Duty Cycle</b>	100%	
<b>Efficiency</b>	85%	
<b>Insulation Class</b>	F	
<b>External Dimension</b>	760 x 360 x 710 mm	
<b>Net Weight</b>	53.4 kg	

Ordering Information	
Transmig 400H power source	ICFC960208
Transmig 500H power source	ICFC960209
Transmig CM EtherNet/IP	ICFC960217
Transmig CM Profinet	ICFC960218

Options & Accessories	
<b>Wirefeeder</b>	
Transmig Feed 364a	ICFC960101
Transmig Feed 364d	ICFC960210
Transmig Feed 304aw	ICFC960211
Transmig Feed 304dw	ICFC960212
Transmig RobFeed 304R	ICFC960213
<b>Robotic Integration Accessories</b>	
Digital communication cable/10M/Transmig	ICFC960222
Analog Communication Cable/10M/Transmig	ICFC960284
<b>Other Accessories</b>	
Gas Regulator GCE/36V/Krass 0870290KR	ICFC960107
Earth Cable 50mm <sup>2</sup> /3M	ICFC960270
Input Power Cable 4X4mm <sup>2</sup> /5M	ICFC960274
Earth Cable 70mm <sup>2</sup> /3M	ICFC960275
Input Power Cable 4X6mm <sup>2</sup> /5M	ICFC960279
Wheel Kit/Transmig Power Source	ICFC960269

## Wirefeeder Accessories for Transmig Series



### High Performance Wire Feeding System

Dual closed-loop digital control and a four-wheel drive design ensure strong wire feeding and stable welding effect, even with a 50-meter extension cable. The parameters can be controlled remotely by using a digital remote, including voltage, wire feed rate, inductance, and initial/welding/arc stopping parameters for efficient welding.

Wirefeeder Accessories	Feed 364a	Feed 364d	Feed 304aw	Feed 304dw	RobFeed 304R	
<b>Cable</b>						
Connect Cable set 5M/50mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 10M/50mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 15M/50mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 30M/50mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 50M/50mm <sup>2</sup> /6pin	x			x		x
Connect Cable set Water Cooling 5M/50mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 10M/50mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 15M/50mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 30M/50mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 50M/50mm <sup>2</sup> /6pin				x		x
Connect Cable set 5M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set 10M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set 15M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set 30M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set 50M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 5M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 10M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 15M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 30M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 50M/50mm <sup>2</sup> /9pin		x			x	
Connect Cable set 5M/70mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 10M/70mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 15M/70mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 30M/70mm <sup>2</sup> /6pin	x			x		x
Connect Cable set 50M/70mm <sup>2</sup> /6pin	x			x		x
Connect Cable set Water Cooling 5M/70mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 10M/70mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 15M/70mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 30M/70mm <sup>2</sup> /6pin				x		x
Connect Cable set Water Cooling 50M/70mm <sup>2</sup> /6pin				x		x
Connect Cable set 5M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set 10M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set 15M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set 30M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set 50M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 5M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 10M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 15M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 30M/70mm <sup>2</sup> /9pin		x			x	
Connect Cable set Water Cooling 50M/70mm <sup>2</sup> /9pin		x			x	

## Wirefeeder Accessories for Transmig Series

Wirefeeder Accessories	Feed 364a	Feed 364d	Feed 304aw	Feed 304dw	RobFeed 304R	
<b>Feed Roller</b>						
FeedRoller/Feed304/ 0.8-1.0/V			x	x	x	ICFC960238
FeedRoller/Feed304/ 1.0-1.2/V			x	x	x	ICFC960239
FeedRoller/Feed304/ 1.2-1.6/V			x	x	x	ICFC960240
FeedRoller/Feed304/ 1.0-1.2/U			x	x	x	ICFC960241
FeedRoller/Feed304/ 1.2-1.6/U			x	x	x	ICFC960242
PressureRoller/Feed304/Flat			x	x	x	ICFC960243
PressureRoller/Feed304/1.0-1.2/U			x	x	x	ICFC960244
PressureRoller/Feed304/1.2-1.6/U			x	x	x	ICFC960245
Inlet wire guide/steel/Feed304			x	x	x	ICFC960246
Middle wire guide/steel/Feed304			x	x	x	ICFC960247
Outlet wire guide/steel/Feed304			x	x	x	ICFC960248
Inlet wire guide/ALU/Feed304			x	x	x	ICFC960287
Middle wire guide/ALU/Feed304			x	x	x	ICFC960288
Feed Roller/Feed364/ 0.8-1.0/V	x	x				ICFC960108
Feed Roller/Feed364/ 1.0-1.2/V	x	x				ICFC960109
Feed Roller/Feed364/ 1.2-1.6/V	x	x				ICFC960146
FeedRoller/Feed364/ 1.2-1.4/V	x	x				ICFC960111
FeedRoller/Feed364/ 1.4-1.6/V	x	x				ICFC960148
FeedRoller/Feed364/ 1.0-1.2/K	x	x				ICFC960112
FeedRoller/Feed364/ 1.2-1.4/K	x	x				ICFC960113
FeedRoller/Feed364/ 1.4-1.6/K	x	x				ICFC960149
Inlet wire guide 2mm/Feed364	x	x				ICFC960114
Middle wire guide 2mm/Feed364	x	x				ICFC960115
Outlet wire guide 2mm/Feed364	x	x				ICFC960116
PressureRoller/Flat/Feed364	x	x				ICFC960117
<b>Robotic Integration Accessories</b>						
Inlet wire guide/RobFeed304R					x	ICFC960289
RobFeed 304R bracket					x	ICFC960605
<b>Wirefeeder Other Accessories</b>						
Wheel Kit/Feed 304			x	x		ICFC960249
Torch holder/Feed 304			x	x		ICFC960250
Transmig WireFeeder Control Cable 5M/6pin	x		x		x	ICFC960259
Transmig WireFeeder Control Cable 10M/6pin	x		x		x	ICFC960260
Transmig WireFeeder Control Cable 15M/6pin	x		x		x	ICFC960261
Transmig WireFeeder Control Cable 30M/6pin	x		x		x	ICFC960262
Transmig WireFeeder Control Cable 50M/6pin	x		x		x	ICFC960263
Transmig WireFeeder Control Cable 5M/9pin		x		x		ICFC960264
Transmig WireFeeder Control Cable 10M/9pin		x		x		ICFC960265
Transmig WireFeeder Control Cable 15M/9pin		x		x		ICFC960266
Transmig WireFeeder Control Cable 30M/9pin		x		x		ICFC960267
Transmig WireFeeder Control Cable 50M/9pin		x		x		ICFC960268



## Fabricator ES 400i

Heavy-Duty industrial inverter welder



Fabricator ES 400i is a heavy-duty inverter-controlled power source for MMA (Stick) welding, TIG (live-TIG) welding and CC Carbon-Air Arc Gouging.

The Fabricator ES 400i is built to withstand rugged use making it a perfect solution for industrial usage. Ideal for heavy industries using all types of electrodes, including Cellulosic.

- The intuitive control panel of the ES 400i makes it easy to optimize settings, reducing the time taken for achieving the best weld characteristics
- Equipped with Hot Start and Arc Force with the possibility to adjust parameters during welding. Hot Start helps to avoid starting problems while Arc Force sets the intensity of the arc for improved weld quality
- Built-in Anti-Stick function to prevent the electrode from getting accidentally stuck in the puddle
- Wide mains voltage tolerance allows for stable welding
- Inverter controlled for high efficiency and low power consumption
- Excellent welding performance with all types of electrodes including Cellulosic

Specifications					
Mains Voltage (Welding Input)	Fuse Slow	Welding Output	Setting Range MMA/TIG	Efficiency Max Current	Idle Power Consumption
380 VAC (-15% +15%), 3 Ph, 50/60 Hz	32 A	400 A at 60% Duty Cycle, at 40°C 300 A at 100% Duty Cycle, at 40°C	MMA: 20 - 400 A TIG: 20 - 400 A	MMA: 88% TIG: 85%	40 W (VRD OFF) 15 W (VRD ON)
Maximum Open Circuit Voltage (Max. With VRD ON)	Enclosure Class		Operating Temperature	Dimensions LxWxH	Weight
82 VDC (15VDC)	IP21S		-10°C - +40°C	525 x 280 x 475 mm	29.5 kg

Ordering Information	
Fabricator ES 400i	0447996400 0447996401 CCC

Options & Accessories			
SR-B 26V-HD Torch, Air, OKC 50, 4 m	0700025530	Remote for Fabricator ES 400i	0447996200
SR-B 26V-HD Torch, Air, OKC 50, 8 m	0700025531		



Easy to use intuitive control panel!

## Fabricator ET 400iP

Optimize your welding process for specialized TIG machine



The Fabricator ET 400iP is a heavy-duty inverter welding power source designed for HF TIG Pulse and MMA (Stick) welding. It's built for use in challenging environments, making it an ideal solution for industrial applications and heavy industries.

- The intuitive and clear control panel makes it easy to optimize settings, saving the time while delivering quality welding performance
- Specialized machine version can be connected to and communicate with Auto TIG welding machine through the analog / RS485 interface
- The flow alarm is an optional feature available with the Cool2 cooling unit
- 4TS is a special 4T mode with manual switching of the welding current for continuous welding when switching between different plate thicknesses
- Wide input voltage tolerance allows for stable welding

Specifications							
Mains Voltage (Welding Input)	Fuse Slow	Pulse Background Current Settings Range		Setting Range MMA/TIG	Efficiency Max Current	Idle Power Consumption	Welding Output
380 VAC (-15% +10%), 3 Ph, 50/60 Hz	32 A	10% to 90% of set current		30 – 400 A MMA 5 – 400 A TIG	89% MMA 86% TIG	40 W (VRD OFF) 15 W (VRD ON)	400 A / 36 V (MMA), 400 A / 26 V (TIG) @ 60% Duty Cycle, at 40°C
Maximum Open Circuit Voltage (Max. With VRD ON)	Enclosure Class	Pulse Frequency	Operating Temperature	Certification Mark (Standards)	Dimensions LxWxH		310 A / 32.4 V (MMA), 310 A / 22 V (TIG) @ 100% Duty Cycle, at 40°C
76 VDC (15VDC)	IP21S	0.5 – 250 Hz	-10°C – +40°C	CCC	525 × 280 × 475 mm		38.5 kg

Ordering Information							
Fabricator ET 400iP regular version, without analog and RS 485 interfaces							0447996440
Fabricator ET 400iP specialized machine version, including analog and RS 485 interfaces							0447997303
Fabricator ET400iH hot wire welding power source							0447997035

Fabricator ET400iP with Cool 2 connection requires to purchase 0447248001.

Fabricator ET400iP with Cool 2 connection and flow alarm function requires to purchase 0447248001 and 0447997082.

Options & Accessories			
SR-B 26 HD Torch, Air, OKC 50, 4 m	0700025526	Water cooler adapter for COOL 2 cooler	0447248001
SR-B 26 HD Torch, Air, OKC 50, 8 m	0700025527	COOL 2 water cooler	0465427880CN
MMA 4 Analogue Remote Control incl. 10 m cable and 8-pin connector	0700500084	Coolant 10 L	0465720002
SR-B 400 Torch, Water, OKC 50, 4 m	0700025538	Water cooler accessory kit	0447997082
SR-B 400 Torch, Water, OKC 50, 8 m	0700025539	Trolley 3-in-1 for water cooled system with COOL 2 and adapter	0349313450C

## Fabricator ES 410iC

Heavy-Duty industrial inverter welder



Fabricator ES 410iC is a heavy-duty inverter-controlled power source for MMA (Stick) welding, TIG (live-TIG) welding and CC Carbon-Air Arc Gouging.

- The intuitive control panel of the ES 410iC makes it easy to optimize settings, reducing the time taken for achieving the best weld characteristics
- Equipped with Hot Start and Arc Force with the possibility to adjust parameters during welding. Hot Start helps to avoid starting problems while Arc Force sets the intensity of the arc for improved weld quality
- Built-in Anti-Stick function to prevent the electrode from getting accidentally stuck in the puddle
- Wide mains voltage tolerance allows for stable welding
- Inverter controlled for high efficiency and low power consumption
- Excellent welding performance with all types of electrodes including Cellulosic

### Specifications

Mains Voltage (Welding Input)	Fuse Slow	Welding Output	Setting Range MMA/TIG	Efficiency Max Current	Idle Power Consumption
380-400-415-440 VAC (-15% +10%), 3 Ph, 50/60 Hz	32 A	410 A at 60% Duty Cycle, at 40°C 310 A at 100% Duty Cycle, at 40°C	30 – 410 A / 10 – 410 A	89% MMA and 86% TIG	40 W (VRD OFF) 15 W (VRD ON)
Maximum Open Circuit Voltage (Max. With VRD ON)	Enclosure Class, CCC	Enclosure Class, CE / non-CE	Operating Temperature	Certification Mark (Standards)	Dimensions LxWxH
76 VDC (15VDC)	IP21S	IP23S	-10°C – +40°C	CE / CCC	525 × 280 × 475 mm

### Ordering Information

Fabricator ES 410iC, CCC	0447100882
Fabricator ES 410iC, Non-CE	0447100880

### Options & Accessories

SR-B 26V-HD Torch, Air, OKC 50, 4 m	0700025530	MMA 4 Analogue Remote Control incl. 10 m cable and 8-pin connector	0700500084
SR-B 26V-HD Torch, Air, OKC 50, 8 m	0700025531		



Easy to use intuitive control panel

## Fabricator ET 410iP

Heavy-Duty HF TIG pulse industrial inverter welder



Fabricator ET 410iP is a heavy-duty inverter-controlled power source for HF TIG Pulse welding and MMA (Stick) welding.

- The intuitive control panel of the ET 410iP makes it easy to optimize settings, reducing the time taken for achieving the best weld characteristics
- Equipped with High Frequency for easy arc starts and Start Pulse (micropulse) which preheats the Tungsten electrode for improved arc stability from the start
- Pulse background current between 10% and 90% of the set current and pulsing frequency from 0.5 to 250 Hz, for optimal pulse in each application
- Spot mode for easy tack welding and 4 TS to be able to pulse only when it's necessary
- Wide mains voltage tolerance allows for stable welding
- Inverter controlled for high efficiency and low power consumption
- Excellent welding performance with Stick electrodes

Specifications						
Mains Voltage (Welding Input)	Fuse Slow	Welding Output	Setting Range MMA/TIG	Efficiency Max Current	Idle Power Consumption	
380-400-415-440 VAC (-15% +10%), 3 Ph, 50/60 Hz	32 A	410 A at 60% Duty Cycle, at 40°C 310 A at 100% Duty Cycle, at 40°C	30 – 410 A / 5 – 410 A	89% MMA and 86% TIG	40 W (VRD OFF) 15 W (VRD ON)	
Maximum Open Circuit Voltage (Max. With VRD ON)	Enclosure Class	Pulse frequency	Operating Temperature	Certification Mark (Standards)	Dimensions LxWxH	Weight
76 VDC (15VDC)	IP21S	0.5 – 250 Hz	-10°C – +40°C	CE / CCC	525 × 280 × 475 mm	38.5 kg

Ordering Information	
Fabricator ET 410iP, Non-CE	0447101880
Fabricator ET 410iP, CE	0447101881
Fabricator ET 410iP, CCC	0447101882

Options & Accessories			
SR-B 26 HD Torch, Air, OKC 50, 4 m	0700025526	SR-B 400 Torch, Water, OKC 50, 4 m	0700025538
SR-B 26 HD Torch, Air, OKC 50, 8 m	0700025527	SR-B 400 Torch, Water, OKC 50, 8 m	0700025539
MMA 4 Analogue Remote Control incl. 10 m cable and 8-pin connector	0700500084	Trolley 3-in-1 for water cooled system with COOL 2 and adapter	0349313450C
COOL 2 water cooler	0465427880CN	Coolant 10 L	0465720002
Water cooler adapter for COOL 2 cooler	0447248001		



Easy to use intuitive control panel

**Origo™ Tig 4300iw AC/DC**

Robust and powerful MMA/TIG welding machines



4300iw AC/DC with cooling unit

- Professional TIG AC/DC welding
- QWave - quiet and highly dynamic AC arc
- True AC Rating - correct display of the actual welding current
- Professional MMA welding with Origo Tig 4300iw AC/DC
- Adjustable ArcPlus regulation, HotStart, ArcForce and switchable polarity (DC)
- Water cooler with ELP, ESAB LogicPump (the water cooler starts automatically when the water cooled TIG torch is connected, preventing overheating)

**Specifications - Origo Tig 4300iw AC/DC**

Input Voltage	Setting Range		Amps Input at Rated Load TIG	Power Factor @ Max Current TIG
400 VAC, 3 ph, $\pm 10\%$ 50 Hz	TIG AC/DC: 4 – 430 A		MMA AC/DC: 16 – 430 A	25 A
<b>Welding Output</b>		<b>Dimensions L x W x H</b>		<b>Weight</b>
TIG AC/DC 430 A / 27.2 V @ 40% Duty Cycle 400 A / 26.0 V @ 60% Duty Cycle 315 A / 22.6 V @ 100% Duty Cycle		MMA AC/DC 430 A / 37.2 V @ 40% Duty Cycle 400 A / 36.0 V @ 60% Duty Cycle 315 A / 32.6 V @ 100% Duty Cycle		625 x 394 x 776 mm 95 kg

**Ordering Information**

Origo Tig 4300iw, TA24 AC/DC	0460100880
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Delivery includes power source with 5 m mains cable and plug, 4.5 m return cable, 2 m gas hose with clips.

**Options & Accessories**

Trolley 4-wheel (Tig 4000i, 4300iw)	0458530881	Adaptor for remote-controller torches	0459491912
Coolant 10 L	0465720002	Foot pedal T1 Foot CAN, 5 m	0460315880

**TIG Torches**

For torches see separate page on the SR-B TIG torches range.

## Renegade™ ES 300i & ET 300i/300iP

Multi-voltage, industrial MMA/TIG machines



- ES 300i has highest power-to-weight ratio in its class weighing in at 15 kg and producing 300 A at 40% duty cycle (3 ph)
- Small, lightweight system can virtually go anywhere on the jobsite; its three handle design makes it easy for transportation and maneuvering through manholes and other hard to reach areas
- ES 300i incorporates excellent performance with 6010 (cellulosic) electrodes and additional functionality to tailor Arc Force for a softer or crisper arc through a 6010 mode
- With an excellent TIG operational range from 5 to 300 A, you'll have the confidence to tackle a broad range of material thicknesses
- Intuitive Interface – the machine's digital readout display, along with large buttons with excellent feedback and controls, make it easy to set parameters and read them from a distance
- Cable Management – an integrated latch system helps control cables so they can be secured to the machine, making it easy to pack up and go
- ET300iP - Pulse HF TIG. 0.1 - 1000 pulse frequency range, the widest range in its category giving you maximum precision TIG welding capability including better arc control, penetration and increased travel speeds
- Modular system with tool-less connection to water cooler and trolley

MMA/TIG  
Equipment

Specifications							
Input Voltage	Welding Output TIG		Welding Output MMA		Setting Range	Input Current Draw	Rated kVA
230 VAC, 1ph 230 – 460 VAC, 3ph ± 10% 50/60 Hz	300 A/22 V @ 40% Duty Cycle, 3ph 250 A/20 V @ 60% Duty Cycle, 3ph 200 A/18 V @ 100% Duty Cycle, 1/3ph		300 A/32 V @ 40% Duty Cycle, 3ph 250 A/30 V @ 60% Duty Cycle, 3ph 200 A/28 V @ 100% Duty Cycle, 1/3ph		5 – 200 A, 1ph 5 – 300 A, 3ph	10 A, 400 – 460 V 11 A, 380 V 20 A, 230 V	11.3 kVA
Open Circuit Voltage	Power Factor @ Max Current	Efficiency @ Max Current	Energy Save Mode	Mains Cable Length	Dimensions L x W x H		Weight
48 V (32 V - VRD)	0.96	85% (TIG) 89% (MMA)	91 W	3m	460 x 200 x 320 mm		ES 300i: 15 kg  ET 300i/ET 300iP: 16.9 kg without cooler 26.9 kg with cooler

Ordering Information	
Renegade ES 300i	0445100880
Renegade ES 300i, incl. shoulder strap and 5 m return cable and clamp	0445250880
Renegade ET300i	0445100900
Renegade ET300iP	0445100920

ES 300i packages include power source with 3 m mains cable and plug.

ET 300i/300iP packages include power source with 3 m mains cable and plug, 5 m return cable and clamp and 2 m gas hose w. clips.

## Renegade™ ES 300i &amp; ET 300i/300iP

Options & Accessories				
Shoulder strap	0445197880			
Trolley 2-wheel	0460330881			
Electrode holder kit, Handy 300, OKC50, 3 m	0700006902			
Electrode holder kit, Handy 300, OKC50, 5 m	0700006888			
Return cable kit, OKC50, 3 m	0700006903			
Return cable kit, OKC50, 5 m	0700006889			
OKC50 male contact, pack of 4 pcs	0160360881			
MMA 3 Analog Remote Control incl. 10 m cable and 6-pin connector <sup>1)</sup>	0445870880			
MMA 3 Analog Remote Control incl. 25 m cable and 6-pin connector <sup>1)</sup>	0445870881			
10 m Replacement Cable for MMA 3 Analog Remote Control <sup>1)</sup>	0445204880			
25 m Replacement Cable for MMA 3 Analog Remote Control <sup>1)</sup>	0445204881			
Retrofitkit for MMA 3 Analog Remote Control	0445840880			
ER 1 Remote Control incl. 5 m cable and 6-pin connector	0445536881			
ER 1 Remote Control incl. 10 m cable and 6-pin connector	0445536882			
ER 1 Remote Control incl. 25 m cable and 6-pin connector	0445536883			
ER 1 Remote Control incl. 5 m cable and 4-pin connector <sup>2)</sup>	0445536880			
5 m replacement cable with 4-pin connector for ER 1 RemoteControl	0445450880			
1 to 3-phase Adaptor Renegade <sup>3)</sup>	0445139880			
Renegade ET 300i, ET 300iP Only				
EC 1000 Water-Cooler	0445045880			
Coolant 10 L	0465720002			
ER 1F Foot pedal incl. 5 m cable and 6-pin connector	0445550881			
ER 1F Foot pedal incl. 10 m cable and 6-pin connector	0445550882			
TIG Torches	4 m	8 m	12 m	16 m
SR-B 21, water-cooled, OKC50	0700025544	0700025545	0700025546	0700025547
SR-B 26, gas-cooled, OKC50	0700025518	0700025519	0700025520	0700025521

<sup>1)</sup> Compatible with Renegade ES 300i, ET 300i and ET 300iP machines with serial number over 815-xxx.<sup>2)</sup> 4-pinconnector is used for Renegade ES 300i machines with serial number up to 718-xxx-xxx.<sup>3)</sup> Only for use with Renegade ES 300i (0445100880), ET 300i (0445100900) and ET 300iP (0445100920).Renegade ET 300iP with cooling unit on  
Trolley 2-wheel (0460330881)

# Aristo RoboFeed 3804W

Optimum feeding solution for robot applications



- The Aristo robot package offers more than 200 pre-programmed synergic lines as well as memory for 255 parameters or schedules
- Easy to connect/disconnect by using quick connectors for gas, liquid, control signals and welding current
- TrueArcVoltage™ system for continuous measurement of the arc length
- All control functions at the front of the feeder or accessible via Aristo U82 or external control panels
- CAN-Bus for internal communication between the components
- Detects anti-collision through the CAN-Bus
- Forward and reverse wire feed inching
- Shielding and cleaning gas purge

Specifications							
Input Voltage	Welding Output	Wire Feed Speed	Drive Mechanism	Drive Rollers	Speed Control	Wire Dimensions	
42 V (50/60 Hz)	500 A @ 60% / 400 A @ 100%	0.8 - 30.0 m/min	4WD	Ø 38 mm	Pulse encoder	Mild Steel	0.8 - 1.6 mm
Dimensions L x W x H	Standards	Torch Connection	Weight	Enclosure Class	Operating Temperature	Stainless	0.8 - 1.6 mm
362 x 246 x 235 mm	IEC 60974-5, IEC 60974-10	EURO	7.3 kg	IP2X	-10°C - +40°C	Cored Wire	0.9 - 1.6 mm
						Aluminium	1.0 - 1.6 mm

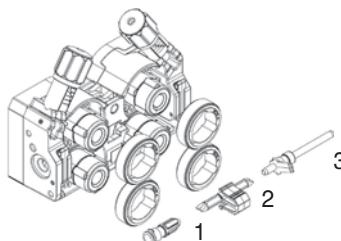
Ordering Information		
Aristo RoboFeed 3804w ELP 12p		0461000892

Options & Accessories					
Interconnection cable 5.0 m air-cooled	0740538890	Interconnection cable 10.0 m water-cooled		0740538886	
Interconnection cable 10.0 m air-cooled	0740538881	Interconnection cable 15.0 m water-cooled		0740538887	
Interconnection cable 15.0 m air-cooled	0740538882	Interconnection cable 25.0 m water-cooled		0740538888	
Interconnection cable 5.0 m water-cooled	0740538895	Interconnection cable 35.0 m water-cooled		0740538889	

Spare Parts, Feed Rollers					
V Groove for Fe/SS/Cored	0445850002	0445850003	0445850004*	0445850005	0445850006
Groove / Side 1 - Wire Diameters [mm]	0.8	0.9 / 1.0	0.9 / 1.0	1.2	1.4
Groove / Side 2 - Wire Diameters [mm]	0.9 / 1.0	0.9 / 1.0	1.2	1.2	1.6
V-K Groove for Cored Wire	0445850030	0445850031	0445850032	0445850033	
Groove / Side 1 - Wire Diameters [mm]	0.9 / 1.0	1.2	1.2	1.6	
Groove / Side 2 - Wire Diameters [mm]	1.2	1.2	1.4	1.6	
U-Groove for Aluminum Wire	0445850050	0445850051	0445850052		
Groove / Side 1 - Wire Diameters [mm]	0.8	1.0	1.2		
Groove / Side 2 - Wire Diameters [mm]	1.0	1.2	1.6		

Spare Parts, Wire Inlet			
Wire Guide for	(1) Inlet Nozzle	(2) Middle Nozzle	(3) Outlet Nozzle
Fe/SS/Cored 0.6 - 1.6 mm	0445822001*	0446080882*	0445830881*
Aluminum 0.8 - 1.6 mm	0445822001	0446080881	0445830885

\* Included in delivery.



**Aristo® Feed 3004w**

Advanced Synergic Multi-Process



Feed 3004w MA25 Pulse



Feed 3004w U8₂

- New drive motor offers more torque for improved arc starts, more consistent speed and less noise
- Redesigned drive rolls and feed mechanism for more positive feeding performance and reduced risk of wire shavings
- Short Circuit Termination (SCT) technology sharpens the wire at the end of each weld to promote better arc starts
- Feed 3004 can be equipped with a counter balance arm, lifting eye or a wheel kit for increased mobility
- TrueArcVoltage™ system measures the correct arc voltage at the contact tip (together with ESABtorches)

Specifications			
Supply Voltage	Wire Feed Speed	Max Spool Capacity	Wire Diameter
42 VAC, 1 ph, 50/60 Hz	0.8 - 25.0 m/min	300 mm (440 mm*), 18 kg (30 kg*)	Mild Steel Stainless FCW Aluminium
Dimensions L x W x H		Weight	
690 x 275 x 420 mm		15 kg	0.6 - 1.6 mm 0.8 - 1.6 mm 0.9 - 1.6 mm 1.0 - 1.6 mm

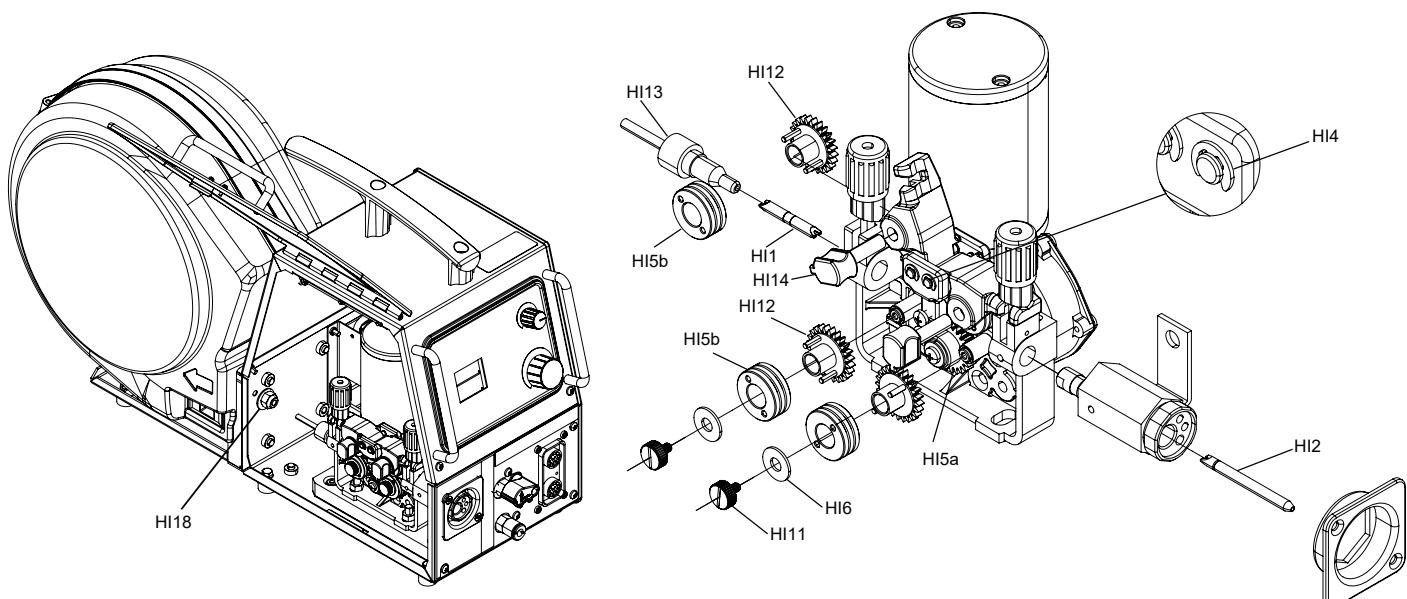
Ordering Information	
Aristo Feed 3004w MA25 Pulse	0447996340
Aristo Feed 3004w U8₂	0447996640

Options & Accessories			
Wheel Kit, front wheels turn	0458707880	Trolley 4-wheel stabilizer kit for counterbalance device	0460946880
Strain relief for welding gun	0457341881	Remote control MTA1 CAN	0459491880
Strain relief for connection cables	0459234880	Remote control MT1 10Prog CAN	0459491882
Lifting eye	0458706880	Push-Pull Connection kit with W.F.S.	0459681881
Adapter for spool diameter 17 in. (440 mm)	0459233880	Push-pull gun connection kit, basic	0459020883
Adapter for 11 lbs. (5 kg) spool	0455410001	Remote adapter kit for Miggytrac/Railtrac	0459681880
Guide Pin (If no trolley)	0458731880	Quick connector for Marathon Pac	899F50
MiniBoomcounterbalance device (requires P/N's 0460565880, 0461310880 and 0460946880)	0458705880		
<b>Connection Cable</b> (see p38 wire feeder connection cable kit)			

# Aristo Feed 3004w

Wear Parts				
No.	Description	Wire Type	Wire size	Order
HI1	Intermediate nozzle	Fe, Ss & cored		0447996571
	Intermediate nozzle	Al		0447996470
HI2	Outlet nozzle	Fe, Ss & cored	Ø 2.0 mm steel for 0.6-1.6 mm	0447996573
	Outlet nozzle	Al	Ø 2.0 mm plastic for 0.8-1.6 mm	0447996572
HI4	Locking washer			0447996677
HI5a	Motor gear			0447996689
				Groove type
HI5b	Pressure rollers	Fe, Ss & cored		Flat
	Feed/pressure rollers	Fe, Ss & cored	Ø 0.6 &0.8 mm	V
	Feed/pressure rollers	Fe, Ss & cored	Ø 0.8 &1.0 mm	V
	Feed/pressure rollers	Fe, Ss & cored	Ø 0.9/1.0 &1.2 mm	V
	Feed/pressure rollers	Fe, Ss & cored	Ø 1.4 &1.6 mm	V
	Feed/pressure rollers	Cored	Ø 0.9/1.0 &1.2 mm	V-Knurled
	Feed/pressure rollers	Cored	Ø 1.2/1.2 mm	V-Knurled
	Feed/pressure rollers	Cored	Ø 1.2 &1.4 mm	V-Knurled
	Feed/pressure rollers	Cored	Ø 1.2 &1.6mm	V-Knurled
	Feed/pressure rollers	Al	Ø 0.8 &0.9/1.0 mm	U
	Feed/pressure rollers	Al	Ø 1.0 &1.2 mm	U
	Feed/pressure rollers	Al	Ø 1.2 &1.6 mm	U
	Notes			
HI6	Washer	Ø 16/5×1		
HI11	Nut for feed roller			0447 996 690
HI12	Gear adapter for feed roller			0447 996 691
HI13	Wire inlet	Fe, Ss & cored		0447 996 570
	Wire inlet	Al		0447 996 469
HI14	Shaft			0447 996 692
HI15	Nut	M12		
HI18	Inlet nozzle	Include HI15		ICFC960487

In order to weld with aluminium wire, proper rollers, nozzles and liners for aluminium wire must be used. It is recommended to use 3 m long welding torch for aluminium wire, equipped with appropriate wear parts.



**RobustFeed Edge BX/CX**

Reliable, easy to use, with built in connectivity



reddot winner 2021

**PRECIDRIVE****SPOOLSAFE**  
PROTECTS YOUR WIRE

IP54

- A hybrid HMI solution with material selection and configurations on a TFT-screen inside the unit with a clear and easy to use external display for everyday operation makes the unit easy to operate
- Effective and quick to set-up operator management system that allows locking down quick-jobs with setting limits improves repeatability and adherence to welding procedure specifications
- Fit for purpose weld mode SPEED that provides a focused arc that allows the welder to better and easier handle the weld puddle at higher travel speeds thus increasing the productivity
- PreciDrive wire drive system maintains precision wire feeding performance to promote consistent weld quality
- SpoolSafe - a unique in the market IP54 protection against dirt/dust keeps your wire dry and clean, improves feedability and reduces risk of contaminations of the weld
- The 2021 Red Dot first design award winning design provides well-designed ergonomics and intuitive user interface that reduces training needs for operators

**Specifications**

Input Voltage	Standby Power	Operating Temperature	Wire Feed Speed	Max Spool Capacity	Wire Diameter
60 VDC	30 W	-20°C – +55°C	0.8 – 25 m/min	300 mm, 20 kg	Mild Steel 0.6 – 2.0 mm
<b>Protection Class</b>		<b>Welding Output (40°C)</b>		<b>Dimensions L x W x H</b>	<b>Weight</b>
IP54		500 A @ 60 % 400 A @ 100 %	595 x 250 x 430 mm	16.8 kg	Stainless 0.6 – 1.6 mm FCW 0.9 – 2.4 mm Aluminium 0.9 – 1.6 mm

**Ordering Information**

RobustFeed Edge BX, Water-cooled, Euro	0446600880
RobustFeed Edge CX, Water-cooled, Digital Gas Control, Heater, Euro	0446600881

**Options & Accessories**

Guide Pin Extension Kit	0465508880	Torch Holder RobustFeed	0446958880
RobustFeed Wheel Kit *	0446081880	Torch Strain Relief RobustFeed	0446082880
Boom Adaptor (Lifting Device)	0446956880	Quick Connector Marathon Pac	F102440880
<b>Torch</b> (see p50 EXEOR MIG torch)			
<b>Connection Cable</b> (see p38 wire feeder connection cable kit)			
<b>Wire Feed Wheel</b> (see p41 wire feed wearing parts & spare parts)			

\* Extension Kit 0465508880 required when Wire Feeder Wheel Kit is used in combination with Trolley 0349313450C.



Internal LED lights at spool and mechanism, integrated storage for wear parts in lid, graphic panel for material set-up and configuration.

## RobustFeed PRO

Ultimate robustness and portability



Wheel Kit and Torch Strain Relief works with feeder horizontal or vertical

**PRECIDRIVE**

**SPOOLSAFE**  
PROTECTS YOUR WIRE  
IP54

The RobustFeed, with its ergonomic, robust and enclosed design, is the ideal partner whenever portability and durability are key.

Equipped with a new precision wire drive system with enough power to handle up to 2.0 mm solid wire and 2.4 mm cored wire. Offshore variants available with flow meter and heater included. RobustFeed PRO works with Warrior power sources.

- Durable, drop-proof housing that withstands demanding applications
- Great portability with ergonomic handles, 5 lifting points and safe for crane lifting handles
- Weatherproof, enclosed design that withstands rain from all directions and inside heater ensures the filler metal is kept dry
- Large sun-friendly display and clear controls make set up efficient and easy when wearing gloves
- Protected cable connectors and sturdy strain relief for interconnection cable reduces maintenance
- Works as great in the field as in workshops, on a trolley, with or without wheel kit, and other options and accessories
- PreciDrive wire drive system maintains precision wire feeding performance to promote consistent weld quality
- SpoolSafe - a unique in the market IP54 protection against dirt/dust keeps your wire dry and clean, improves feedability and reduces risk of contaminations of the weld
- The 2021 Red Dot design award winning design provides well-designed ergonomics and intuitive user interface that reduces training needs for operators

Specifications					
Input Voltage		Operating Temperature	Wire Feed Speed	Max Spool Capacity	
42 VAC, 1ph, 50/60 Hz		-20°C – +55°C	0.8 – 25 m/min	300 mm, 20 kg	
Protection Class		Welding Output	Dimensions L x W x H		Weight
IP44		550 A @ 35% Duty Cycle 500 A @ 60 % Duty Cycle 400 A @ 100% Duty Cycle	595 x 250 x 430 mm	16.8 kg	
Mild Steel		0.6–2.0 mm			
Stainless		0.6–1.6 mm			
FCW		0.9–2.4 mm			
Aluminium		0.9–1.6 mm			

Ordering Information			
RobustFeed PRO	0445800880	RobustFeed PRO Offshore (incl. gas flow meter+heater)	0445800882
RobustFeed PRO, Water	0445800881	RobustFeed PRO Offshore, Water (incl. gas flow meter+heater)	0445800883

Delivery includes wire feeder and feed rolls for 0.9 - 1.2 mm wire.

Options & Accessories			
RobustFeed Wheel Kit	0446081880	Guide Pin Extension Kit <sup>2)</sup>	0465508880
Torch Strain Relief RobustFeed	0446082880	Liquid Cooling Kit RobustFeed (to upgrade gas-cooled feeders)	0446123880
Trolley (RobustFeed/Warrior Feed/Aristo Feed)	0349313450C	Quick Connector Marathon Pac	F102440880
Trolley Retrofit Kit RobustFeed <sup>1)</sup>	0349313100	Interconnection Strain Relief Kit Warrior <sup>3)</sup>	0446050880
<b>Connection Cable</b> (see p38 wire feeder connection cable kit)			
<b>Wire Feed Wheel</b> (see p41 wire feed wearing parts & spare parts)			

<sup>1)</sup> To fit RobustFeed on older Trolley 0465510880.

<sup>2)</sup> Extension Kit required when Wire Feeder Wheel Kit is used in combination with Trolley.

<sup>3)</sup> To upgrade existing Warrior interconnection cable sets to fit with RobustFeed.

## RobustFeed Pulse/U6/U8<sub>2</sub>

用于脉冲焊接应用的结实型便携式送丝机

**PRECIDRIVE**



The RobustFeed, with its ergonomic, robust and enclosed design, is the ideal partner for fabricators. These new pulse welding wire feeders are equipped with a new precision wire drive system perfect for demanding applications.

RobustFeed Pulse control functions are easy to find, set and fine-tune, while the RobustFeed U6 offers additional functionality including parameter limits and parameter lock for better repeatability. RobustFeed U8<sub>2</sub> offers pulse on pulse and other advanced processes with the SuperPulse functionality. All units offer synergic lines to address a wide variety of steel, aluminium and stainless steel wires.

- Fully portable feeder offering the benefits of pulse - reducing weld spatter and post weld clean up, controlling bead appearance and profile, increased speed for position welding and more depending on the application
- PreciDrive wire drive system maintains precision wire feeding performance to promote consistent weld quality
- Durable housing, sturdy strain relief for interconnection, 5 ergonomic lifting points and safe for crane lifting handles makes product truly portable
- Integrates perfectly on standard trolleys, with or without wheel kit, and other options and accessories
- The 2021 Red Dot design award winning design of the RobustFeed also provides additional benefits including, best in class enclosure from moisture and dust to keep the spool safe, an integrated heater and flow meter and well-designed ergonomics

Specifications					
Input Voltage		Operating Temperature	Wire Feed Speed	Max Spool Capacity	
42 VAC, 1ph, 50/60 Hz		-20°C – +55°C	0.8 – 25 m/min	300 mm, 20 kg	
Protection Class	Welding Output	Dimensions L x W x H		Weight	Wire Diameter
IP44	630 A @ 35% Duty Cycle 500 A @ 60 % Duty Cycle 400 A @ 100% Duty Cycle	595 x 250 x 430 mm		16.7 kg	Mild Steel Stainless FCW Aluminium 0.6–1.6 mm 0.6–1.6 mm 0.8–2.0 mm 0.8–1.6 mm

Ordering Information	
RobustFeed Pulse Water-cooled Euro <sup>2)</sup>	0445800894
RobustFeed Pulse (incl. gas flow meter, heater, MMA outlet) Water-cooled Euro <sup>2)</sup>	0445800891
RobustFeed Pulse (incl.push-pull, ELP, gas flow meter, heater, MMA outlet) Water-cooled Euro <sup>1)</sup>	0445800892
RobustFeed U6 Water-cooled Euro <sup>2)</sup>	0445800897
RobustFeed U6 (incl. gas flow meter, heater, MMA outlet) Water-cooled Euro <sup>2)</sup>	0445800887
RobustFeed U6 (incl. push-pull, ELP, gas flow meter, heater, MMA outlet) Water-cooled Euro <sup>1)</sup>	0445800888
RobustFeed U8 <sub>2</sub> (incl. U8 <sub>2</sub> Plus, ELP) Water-cooled Euro	0445800899
RobustFeed U8 <sub>2</sub> (incl. U8 <sub>2</sub> Plus, ELP, gas flow meter, heater, MMA outlet) Water-cooled Euro	0445800898
RobustFeed U8 <sub>2</sub> (incl. U8 <sub>2</sub> Plus, ELP, gas flow meter, heater, MMA outlet, push-pull) Water-cooled Euro <sup>1)</sup>	0445800900
RobustFeed U0 (incl. ELP) Water-cooled Euro <sup>2)</sup>	0445800901

<sup>1)</sup> Available remote M1

<sup>2)</sup> Available remotes, MTA1 CAN, AT1 CAN and other

ELP feature needed for use with legacy equipment for example Cool 1.

RobustFeed Pulse/U6/U8<sub>2</sub> with push-pull has support for remote control and mechanisation with Miggytrac B5001 & Railtrac B42V/BV2000. Compatible push-pull torches MXH 315PP and MXH 420wPP.

Combine RobustFeed U0 with one RobustFeed U8<sub>2</sub> to have two wire feeders simultaneously connected.

# RobustFeed Pulse/U6/U8<sub>2</sub>

Panel Functions			
	RobustFeed Pulse + Aristo 500ix	RobustFeed U6 + Aristo 500ix	RobustFeed U8 <sub>2</sub> + Aristo 500ix
<b>MIG CV</b>	X	X	X
<b>MIG Pulse</b>	X	X	X
<b>Synergic Lines</b>	Steel, Stainless Steel, Aluminium 93 lines	Steel, Stainless Steel, Aluminium 92 lines	Steel, Stainless Steel, Aluminium 259 manual and 68 robotic lines
<b>MMA</b>	MMA controls and outlet on wire feeder *	MMA controls and outlet on wire feeder *	X
<b>Gouging</b>		Gouging controls and outlet on wire feeder *	X
<b>Live TIG</b>		X	X
<b>Gas Flow Meter</b>	X *	X *	X *
<b>Heat Kit</b>	X *	X *	X *
<b>2T/4T</b>	X	X	X
<b>Hot Start</b>	X	X	X
<b>Creep Start</b>	X	X	X
<b>Crater Fill</b>	X	X	X
<b>Burnback</b>	X	X	X
<b>SCT</b>	X	X	X
<b>Amperage Setting</b>	X	X	X
<b>Gas Pre- and Post-flow Setting</b>	X	X	X
<b>Qset</b>	X	X	X
<b>Memory Settings</b>	3	10	255
<b>Spot Welding Time</b>		X	X
<b>Setting Limits</b>		X	X (and measure limits)
<b>Code Lock</b>		X	X (and user levels)
<b>SuperPulse (Pulse/Pulse, Pulse/Spray, Pulse/Short)</b>			X
<b>Synergic Line Creation</b>			X

\* Depending on variant

Options & Accessories			
RobustFeed Wheel Kit	0446081880	Guide Pin Extension Kit <sup>2)</sup>	0465508880
Torch Strain Relief RobustFeed	0446082880	Liquid Cooling Kit RobustFeed (to upgrade gas-cooled feeders)	0446123880
Trolley (RobustFeed/Warrior Feed/Aristo Feed)	0349313450C	Quick Connector Marathon Pac	F102440880
Trolley Retrofit Kit RobustFeed <sup>1)</sup>	0349313100	Interconnection Strain Relief Kit Aristo <sup>3)</sup>	0446050881
<b>Connection Cable</b> (see p38 wire feeder connection cable kit)			
<b>Wire Feed Wheel</b> (see p41 wire feed wearing parts & spare parts)			

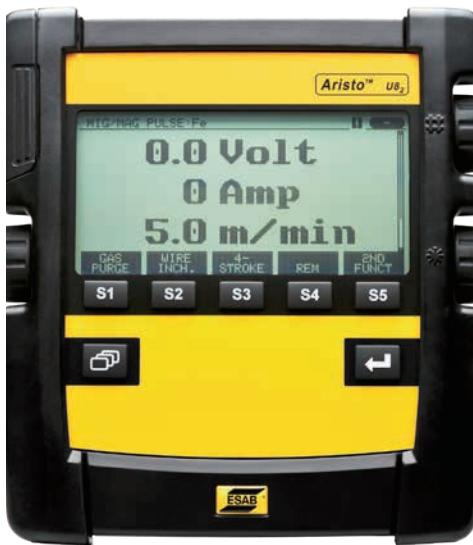
<sup>1)</sup> To fit RobustFeed on older Trolley 0465510880.

<sup>2)</sup> Extension Kit required when Wire Feeder Wheel Kit is used in combination with Trolley.

<sup>3)</sup> To upgrade existing Aristo interconnection cable sets to fit with RobustFeed.

## Aristo® U8<sub>2</sub> Controller

Developed for durability and usability



**QSet™** is the best single parameter automatic arc system on the market for the perfect short arc. The advantages are enormous! You set up the machine with the appropriate gas/wire combination, press the torch switch and start welding within seconds.

The machine determines the optimum parameters and makes any changes as required in a fraction of a second. The wire MMA out which is normally a constant length in MIG/MAG welding, can be varied with QSet™.

Whether you are close to the work piece with the torch or so far away that the gas protection almost ceases, the welding arc remains unchanged - always perfect. Unbeatable in deep seams, if you have to weld around corners or are welding upwards coming out of the downhand position.

Utilized with CO<sub>2</sub> gas you can weld with QSet with extremely low levels of spatter and can drastically reduce the gas costs, compared with mixed gas, without any loss of quality.

QSet is ideal for welding in restricted positions, root welding, GMA brazing and for reproducible results in the series production of parts. QSet is also available in many other ESAB controller / machine combinations.

### Synergic Lines

In the Aristo U8<sub>2</sub> Plus you have more than 230 synergic lines available to you for your welding applications. From construction steel to Super Duplex, from aluminium to Ni basic alloys or for applications of hard metal. You can create customized synergic lines yourself for any desired material and any combination of protective gas and save them as new synergic lines. You can transfer data via the USB connection, to another Aristo U8<sub>2</sub> or to your computer for data backup or exchange by e-mail.

The Aristo U8<sub>2</sub> control panel is used in combination with Aristo Feed 3004 and 4804 to set and adjust welding parameters. The U8<sub>2</sub> is developed to meet the most demanding requirements yet is designed to be simple and easy to use. The system allows you to perform Pulsed or Non pulsed welding with solid or flux cored wire on mild/carbon steel as well as on Stainless. Using solid wire, you can also achieve optimal results in aluminum.

- Multilingual, menu available in 18 languages
- Knobs for quick setting of wire-feed speed and voltage
- USB connectivity for storing weld data
- Qset™ for optimum short arc setting
- Standard package synergic lines (92)

### Additional U8<sub>2</sub> Plus features:

- Complete package synergic lines (>230) and user defined synergic lines
- SuperPulse™ functionality
- Limit editor to set and measure values, file manager, auto save mode and production statistics

### SAT – Swift Arc Transfer™ (Robotic Welding Only)

Swift Arc Transfer (SAT) is a high productivity GMAW process using AristoRod™ non-copper coated wires with Advanced Surface Characteristics at travel speeds well beyond the limits of normal spray arc welding.

The advantage AristoRod non-copper-coated wire over copper-coated wires is that it does not contaminate the feed system with copper particles. Synergic lines are available for three AristoRod wire sizes and various shielding gases.

SAT produces flat welds with good penetration and without undercut. An additional advantage is the low heat input, resulting in less deformation. SAT is developed for robotic, automated and mechanized welding, and suited for fillet and overlap welds in thin to thick plate, in downhand positions.

SAT uses ESAB inverter power sources together with the Robofeed 3004 wire feeder for wire feed speeds up to 30 m/min in conjunction with U8<sub>2</sub> Plus control unit. ESAB provides a complete package of equipment, consumables, and synergic lines as well as the expertise to successfully implement the SAT process.

### Quality Control

For storage of the measured values you are offered two options in the form of the setting limits and measuring limits. The setting limits prevent the operator from inputting excessively high values for the welding process. The measuring limits ensure that the power source does not exceed the input values. Up to 16 User Accounts on three levels with various access rights and blocking codes can be used to prevent unauthorized persons from making changes.

### Production Statistics

The total arc time, total quantity of material and the number of welding processes can be logged per production statistics item. In addition, the arc time and amount of material for the last welding process are recorded, the total weld metal deposited can be recorded – and collected by WeldCloud™.

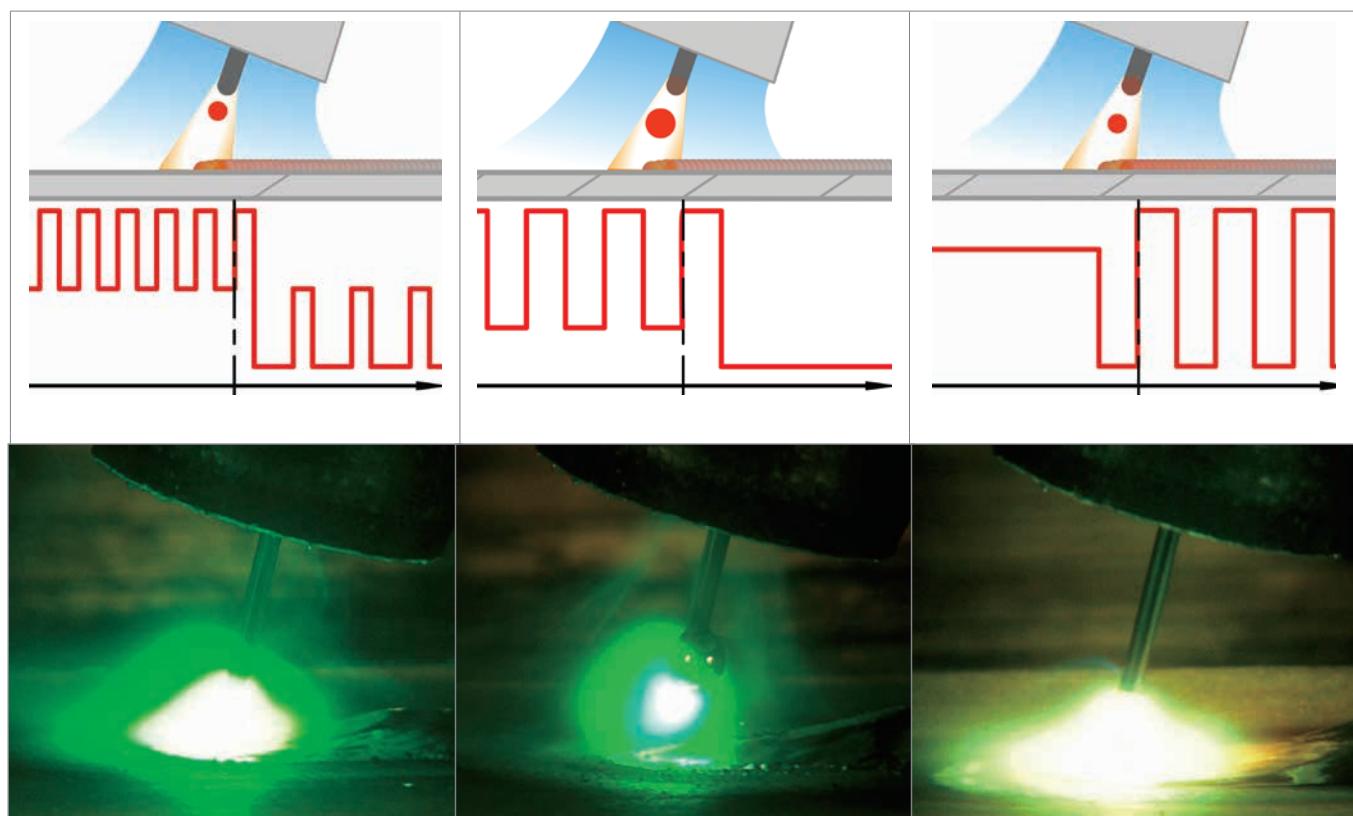
## Aristo® SuperPulse™

Innovative process for heat input control

An additional feature of the Aristo U8<sub>2</sub> Plus control is Aristo SuperPulse - a further development of the Pulse/Pulse concept, giving full control over the heat input and thereby expanding the scope of application of the GMAW process resulting in better gap bridging, reduction in distortion, and better balance of the weld penetration and its profile.

SuperPulse combines the relevant advantages of the various types of arc. For example, the quality of the pulsed arc with the productivity of the spray arc. Or pulse arc with short arc, to introduce the least amount of heat into the thinnest sheets of metal.

Or the combination of two pulsed arcs with different frequencies, for example, for the MIG welding of aluminium with a TIG look. It also allows the working range of larger wires to be expanded increasing productivity.



**Wire Feeder**

Pulse/Pulse	Pulse/Short Arc	Spray/Pulse
<ul style="list-style-type: none"> <li>■ All position weldability</li> <li>■ Thicknesses from 3 to 12 mm</li> <li>■ Exceptional results on Aluminium and stainless steel</li> <li>■ Aesthetically pleasing welds with uniform bead</li> </ul>	<ul style="list-style-type: none"> <li>■ Excellent performance on thin stainless and Aluminium 1 to 5 mm</li> <li>■ Higher travel speeds compared to TIG</li> </ul>	<ul style="list-style-type: none"> <li>■ Better overall results on thicker weldments [6 mm and over]</li> <li>■ Better control of fusion and penetration</li> <li>■ Ability to weld thick Aluminium vertical up with no weaving</li> </ul>

### Aristo SuperPulse Benefits:

- Easier positional welding
- Uniform penetration
- Less sensitive for root gap variations and unequal heat transfer
- GTAW weld appearance with the GMAW process
- Suitable for automated welding, e.g./with ESAB Railtrac and Miggytrac mechanised welding tractors
- Extends the working range for larger wire sizes
- With its precisely adjustable heat input and depth of penetration, Aristo SuperPulse can solve difficult welding tasks and increase productivity



## Wire Feeder Connection Cable Sets

Warrior 400i/500i/750i Connection Cable Sets for Warrior Feed Wire Feeders						
Feeder connection cable (length)	2 m	5 m	10 m	15 m	25 m	35 m
50 mm <sup>2</sup> , Gas-Cooled	0459836560	0459836561	0459836562	0459836563	0459836564	0459836565
50 mm <sup>2</sup> , Water-Cooled	0459836570	0459836571	0459836572	0459836573	0459836574	0459836575
70 mm <sup>2</sup> , Gas-Cooled	0459836880	0459836881	0459836882	0459836883	0459836884	0459836885
70 mm <sup>2</sup> , Water-Cooled	0459836890	0459836891	0459836892	0459836893	0459836894	0459836895
95 mm <sup>2</sup> , Gas-Cooled	0459836980	0459836981	0459836982	0459836983	0459836984	0459836985
95 mm <sup>2</sup> , Water-Cooled	0459836990	0459836991	0459836992	0459836993	0459836994	0459836995

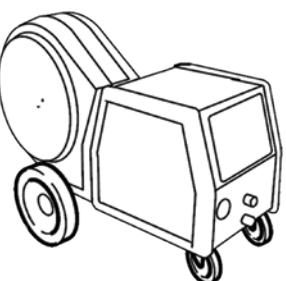
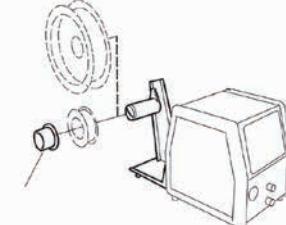
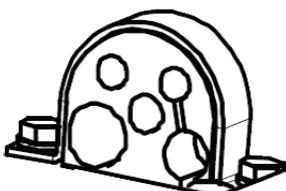
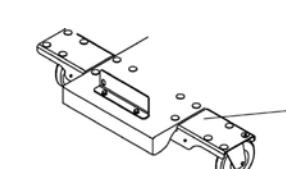
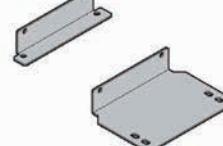
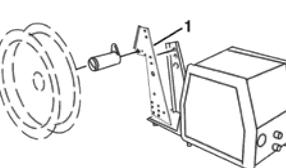
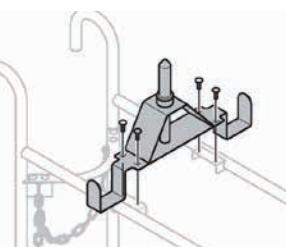
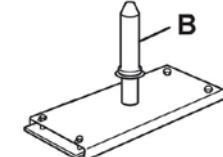
Aristo Mig 5000iw/U5000iw Connection Cable Sets for Aristo Feed Wire Feeders						
Feeder connection cable (length)	2 m	5 m	10 m	15 m	25 m	35 m
95 mm <sup>2</sup> , Gas-Cooled, 12p CAN	0456528880	0456528881	0456528882	0456528883	0456528884	0456528885
95 mm <sup>2</sup> , Water-Cooled, 12p CAN	0456528885	0456528895	0456528896	0456528897	0456528898	0456528899
95 mm <sup>2</sup> , Gas-Cooled, 10-12p CAN	0459528960	0459528961	0459528962			
95 mm <sup>2</sup> , Water-Cooled, 10-12p CAN	0459528970	0459528971	0459528972	0459528973	0459528974	0459528975

Connection Cable Sets for RobustFeed							
RobustFeed PRO+Warrior 400i/500i/750i							
Feeder connection cable (length)	2.0 m	5.0 m	10.0 m	15.0 m	20.0 m	25.0 m	35.0 m
70 mm <sup>2</sup> , Gas-Cooled	0446160880	0446160881	0446160882	0446160883	0446160887	0446160884	0446160885
70 mm <sup>2</sup> , Water-Cooled	0446160890	0446160891	0446160892	0446160893	-	0446160894	0446160895
95 mm <sup>2</sup> , Gas-Cooled	0446160980	0446160981	0446160982	0446160983	-	0446160984	0446160985
95 mm <sup>2</sup> , Water-Cooled	0446160990	0446160991	0446160992	0446160993	-	0446160994	0446160995
Strain Relief Kit Warrior *	0446050880						
RobustFeed Pulse/U6/U8 <sub>2</sub> + Aristo 500ix							
Feeder connection cable (length)	2.0 m	5.0 m	10.0 m	15.0 m	20.0 m	25.0 m	35.0 m
70 mm <sup>2</sup> , Gas-Cooled	0459836880	0459836881	0459836882	0459836883	-	0459836884	0459836885
70 mm <sup>2</sup> , Water-Cooled	0459836890	0459836891	0459836892	0459836893	-	0459836894	0459836895
Strain Relief Kit Warrior *	0446050881						
RobustFeed Edge BX/CX + Warrior Edge CX/DX							
Feeder connection cable (length)	2 m	5 m	10 m	15 m	20 m	25 m	35 m
70 mm <sup>2</sup> , Gas-Cooled	0446310880	0446310881	0446310882	0446310883	0446310884	0446310885	0446310886
70 mm <sup>2</sup> , Water-Cooled	0446310890	0446310891	0446310892	0446310893	0446310894	0446310895	0446310896
95 mm <sup>2</sup> , Gas-Cooled	0446310980	0446310981	0446310982	0446310983	0446310984	0446310985	0446310986
95 mm <sup>2</sup> , Water-Cooled	0446310990	0446310991	0446310992	0446310993	0446310994	0446310995	0446310996
Strain Relief Kit Warrior *	0446082880						

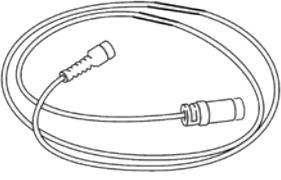
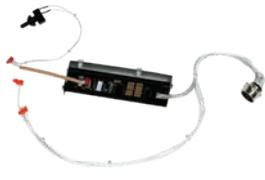
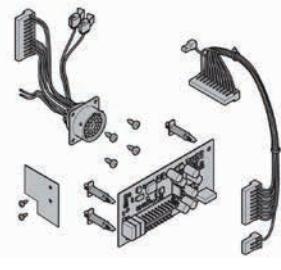
\* Use Strain Relief Kit to upgrade existing Warrior/Aristo cable sets to fit with RobustFeed.

Aristo 500ix Connection Cable Sets for Aristo Feed 3004W MA25 Pulse & Aristo Feed 3004W U8 <sub>2</sub>						
Feeder connection cable (length)	1.7 m	5 m	10 m	15 m	25 m	35 m
70 mm <sup>2</sup> , Gas-Cooled, 10p CAN	0459528780C	0459528781C	0459528782C	0459528783C	0459528784C	0459528785C
70 mm <sup>2</sup> , Water-Cooled, 10p CAN	0459528790C	0459528791C	0459528792C	0459528793C	0459528794C	0459528795C

## Wire Feeder Accessories

 <p><b>Wheel Kit</b> Part Number: 0458707880 Increases the working radius from the power source. The wheel kit has four wheels and can also be placed to pivot on the power source.</p>	 <p><b>Lifting Eye</b> Part Number: 0458706880 Using this device, the feeder unit can be suspended in a swinging arm.</p>	 <p><b>Adaptor for Spool Diameter 200 mm/ 5 kg</b> Part Number: 0455410001 For use with Bobbin Holder 0458704880</p>	 <p><b>Counterbalance Arm</b> Part Number: 0458705880 Requires Stabiliser kit and Bracket kit. Not for use with RobustFeed.</p>
 <p><b>Strain Relief for Welding Torch</b> Part Number: 0457341881 Recommended in combination with wheel kit.</p>	 <p><b>Feeder Strain Relief for Connection Cables</b> Part Number: 0459234880</p>	 <p><b>Stabiliser Kit for Counterbalance Arm</b> Part Number: 0465509880</p>	 <p><b>Bracket Kit for Counterbalance Arm</b> Part Number: 0461310880</p>
 <p><b>Steel Spool Cover</b> Part Number: 0459431880 300 mm spools.</p>	 <p><b>Adaptor for Spool Diameter 440mm / 30 kg</b> Part Number: 0459233880</p>	 <p><b>Guide Pin Extension Kit</b> Part Number: 0465508880 Extension Kit required when Wire Feeder Wheel Kit is used in combination with Trolley.</p>	 <p><b>Guide Pin (if no Trolley) For use with Feed 3004 only</b> Part Number: 0458731880 <b>Insulating Bushing (b), included in guide Pin</b> Part Number: 0278300401</p>

## Wire Feeder Accessories

 <p><b>Remote Connection Cable for CAN</b> Part Number: 0459960880 Requires MTA or M1 10Prog CAN remote) CAN 4 pole - 10 pole 5 m.</p>	 <p><b>Miggytrac/Railtrac Remote Adaptor for CAN feeders MA23, MA24, U6, U8<sub>2</sub></b> Part Number: 0459681880</p>	 <p><b>Remote Kit - WarriorFeed 304</b> Part Number: 0465451880 For use with Handheld Remote Unit M1</p>	 <p><b>Remote Kit Miggytrac/Railtrac WarriorFeed 304</b> Part Number: 0465451881</p>
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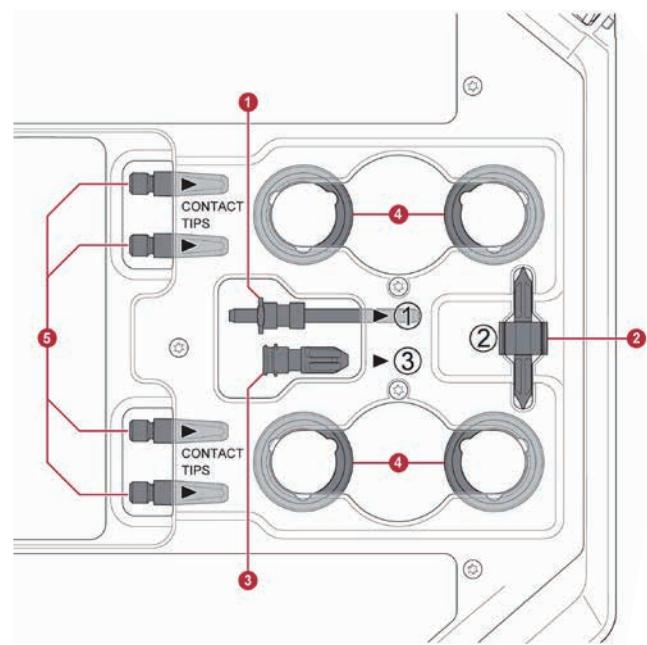
 <p><b>Foot pedal T1 Foot CAN</b> Part Number: 0460315881 incl. 5 m cable with 10 p plug, for connection to the feeder with U6 panel. Part Number: 0460315880 incl. 5 m cable with 12 p plug, for connection to the feeder for U8<sub>2</sub></p>	 <p><b>Quick Connector Marathon Pac</b> Part Number: F102440880 Allows connection of QCA Adaptor to inlet.</p>
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## Wire Feeder Wear & Spare Parts

RobustFeed PRO/Pulse/U6/U8 <sub>2</sub> /EDGE			
<b>1</b>	Inlet wire guide	0445822001 0445822002	Ø 2 mm for Fe, Ss, Al, C, 0.6-1.6 mm Ø 3 mm for Fe/C, 1.8-2.4 mm
<b>2</b>	Middle wire guide	0446080882 0446080883 0446080881	Fe, Ss, C, 0.6-1.6 mm Fe, C, 1.8-2.4 mm Al, 0.8-1.6 mm
<b>3</b>	Outlet wire guide	0445830881 0445830882 0445830885	Fe, Ss, C, 0.6-1.6 mm Fe, C, 1.8-2.4 mm Al, 0.8-1.6 mm
<b>4</b>	V Groove	0445850001 0445850002 0445850003 0445850004 0445850005 0445850006 0445850007	Fe, Ss, C, 0.6-0.8 mm Fe, Ss, C, 0.8-0.9/1.0 mm Fe, Ss, C, 0.9/1.0-0.9/1.0 mm Fe, Ss, C, 0.9/1.0-1.2 mm * Fe, Ss, C, 1.2-1.2 mm Fe, Ss, C, 1.4-1.6 mm Fe, Ss, C, 2.0 mm
	V-K Groove	0445850030 0445850031 0445850032 0445850033 0445850035 0445850036	C, 0.9/1.0-1.2 mm C, 1.2-1.2 mm C, 1.2-1.4 mm C, 1.6-1.6 mm C, 2.0-2.0 mm C, 2.4-2.4 mm
	U Groove	0445850050 0445850051 0445850052	Al, 0.8-1.0mm Al, 1.0-1.2mm Al, 1.2-1.6mm
<b>5</b>	Contact tips for the welding torch (x4)		

Fe = Steel - Ss = Stainless steel - C = Cored wire - Al = Aluminium

\* Included in delivery.



Storage compartment in lid



V Groove



V-K Groove



U Groove

## MMA Accessories

MMA Accessories			
400A grounding cable with clamp, OKC, 3m, 50mm <sup>2</sup>	0447997260	Euro-type electrode holder, OKC, 3m, 50mm <sup>2</sup> Leadset	0447996599
400A grounding cable with clamp, OKC, 5m, 50mm <sup>2</sup>	0447997275	Euro-type electrode holder, OKC, 3m, 70mm <sup>2</sup> Leadset	0447996601
400A grounding cable with clamp, bolt-on, 3m, 50mm <sup>2</sup>	0447997261	OKC adaptor cable 0.4m 70mm <sup>2</sup>	0447997277
400A grounding cable with clamp, bolt-on, 5m, 50mm <sup>2</sup>	0447997262	Grounding clamp 500A	0447996593
500A grounding cable with clamp, OKC, 3m, 70mm <sup>2</sup>	0447997263	Grounding clamp 600A	0447996595
500A grounding cable with clamp, OKC, 5m, 70mm <sup>2</sup>	0447997276	Electrode holder 400A (swivel fixed)	0447996592
500A grounding cable with clamp, bolt-on, 3m, 70mm <sup>2</sup>	0447997264	Euro-type electrode holder 600A (swivel fixed)	0447996594
500A grounding cable with clamp, bolt-on, SC, 5m, 70mm <sup>2</sup>	0447997265	OKC Plug 70-95	0447996597
500A grounding cable with clamp, OKC, OKC, 3m, 95mm <sup>2</sup>	0447997266		
500A grounding cable with clamp, OKC, OKC, 5m, 95mm <sup>2</sup>	0700006897		
500A grounding cable with clamp, bolt-on, SC, 3m, 95mm <sup>2</sup>	0447997267		
500A grounding cable with clamp, bolt-on, SC, 5m, 95mm <sup>2</sup>	0447997268		

# // MIG & TIG TORCH





## PSF MIG Torches

For medium/heavy-duty fabrication



The next generation of PSF has been completely redesigned with front-end wear parts that remain fully compatible with the time-proven heritage PSF wear parts. The modern look and feel, as well as improved performance, make this the right tool for even the most demanding industrial applications.

- 4 sizes of gas-cooled & 2 sizes of water-cooled models
- PSF 260 with rotatable neck
- PSF 520W with dual-circuit cooling system for optimal performance
- Threaded gas nozzles secures a firm fit and better heat dispersion
- Very durable wear part system with robust tip Adaptor and long tips for toughest applications
- CuCrZr contact tips for long life
- Optional remote control module on selected variants

Specifications				
Model	Rated Output, Gas		Wire Size	Cooling
260	225 A @ 60% duty cycle, Mixed	250 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.0 mm	Gas
315	285 A @ 60% duty cycle, Mixed	315 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.2 mm	Gas
415	325 A @ 60% duty cycle, Mixed	380 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.6 mm	Gas
515	400 A @ 60% duty cycle, Mixed	450 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.6 mm	Gas
420W	450 A @ 60% duty cycle, Mixed	450 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.6 mm	Water
520W *	500 A @ 60% duty cycle, Mixed	500 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.6 mm	Water

\* Dual-circuit cooling system (520W) ensure the critical front-end stays cool even under extreme conditions. Less heat means better wire feedability and fewer production stops to change wear parts.

Ordering Information	3 m	4 m	5 m
PSF 260, with Euro Connection	0700025020	0700025021	0700025022
PSF 315, with Euro Connection	0700025030	0700025031	0700025032
PSF 315 RS3, with Euro Connection	-	0700025033	-
PSF 415, with Euro Connection	0700025040	0700025041	0700025042
PSF 415 RS3, with Euro Connection	-	0700025043	-
PSF 515, with Euro Connection	0700025050	0700025051	0700025052
PSF 420W, with Euro Connection	0700025060	0700025061	0700025062
PSF 420W RS3, with Euro Connection	0700025063	0700025064	-
PSF 520W, with Euro Connection	0700025070	0700025071	0700025072
PSF 520W RS3, with Euro Connection	0700025073	0700025074	-

RS3 is compatible with any ESAB machines with MA23-, MA24-, MA25-, U6- and U8<sub>2</sub> control panels as well as RobustFeed Pulse wire feeder.

## PSF Wear Parts

Ordering Information		260/260C	315	415/415C	515	420W/420CW	520W
	Wear Parts						
1	Gas Nozzle Standard	0458464881 (Ø 14 mm)	0458464882 (Ø 16 mm)	0458464883 (Ø 17 mm)	0458464884 (Ø 18 mm)	-	-
1	Gas Nozzle Conical	0458465881 (Ø 12 mm)	0458465882 (Ø 14 mm)	-	0458465884 (Ø 15 mm)	0458464882 (Ø 16 mm)	0458464883 (Ø 17 mm)
1	Gas Nozzle Conical only for M6	-	-	0458465883 (Ø 15 mm)	-	0458465882 (Ø 14 mm)	0458465883 (Ø 15 mm)
1	Gas Nozzle Cylindrical/Straight	0458470881 (Ø 16 mm)	0458470882 (Ø 19 mm)	0458470883 (Ø 21 mm)	0458470884 (Ø 21 mm)	0458470882 (Ø 19 mm)	0458470883 (Ø 21 mm)
3	Tip Adaptor M6	0366314001			-	0366394001	-
3	Tip Adaptor M8	-	0366395001			0460819001	
4	Insulation Bushing/Washer	0366397001	0366397002			0458874001	

# PSF Wear Parts

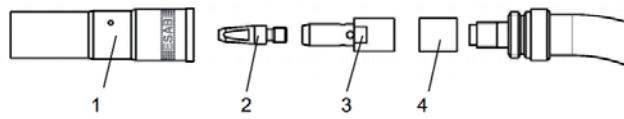
Ordering Information				260/260C	315	415/415C/420W/420CW	515/520W
	Contact Tips	CO <sub>2</sub>	Mix				
2	Contact Tip M6 x 27 CuCrZr	0.6	-		0468500001		-
2	Contact Tip M6 x 27 CuCrZr	-	0.6		0468500002		-
2	Contact Tip M6 x 27 CuCrZr	0.8	-		0468500003 *		-
2	Contact Tip M6 x 27 CuCrZr	0.9	0.8		0468500004		-
2	Contact Tip M6 x 27 CuCrZr	1.0	0.9		0468500005		-
2	Contact Tip M6 x 27 CuCrZr	1.2	1.0		0468500007 *		-
2	Contact Tip M6 x 27 CuCrZr	1.4	1.2	-	0468500008		-
2	Contact Tip M6 x 27 CuCrZr	1.6	-	-	0468500009 *		-
2	Contact Tip M6 x 27 CuCrZr	-	1.6	-	0468500010		-

2	Contact Tip M8 x 37 CuCrZr	0.8	-	-		0468502003	
2	Contact Tip M8 x 37 CuCrZr	0.9	0.8	-		0468502004 *	
2	Contact Tip M8 x 37 CuCrZr	1.0	0.9	-		0468502005 *	
2	Contact Tip M8 x 37 CuCrZr	1.2	1.0	-		0468502007 *	
2	Contact Tip M8 x 37 CuCrZr	1.4	1.2	-		0468502008 *	
2	Contact Tip M8 x 37 CuCrZr	1.6	-	-		0468502009 *	
2	Contact Tip M8 x 37 CuCrZr	-	1.6	-		0468502010 *	
2	Contact Tip M8 x 37 CuCrZr	2.0	2.0	-	-	0468502011	
2	Contact Tip M8 x 37 CuCrZr	2.4	2.4	-	-	0468502012	

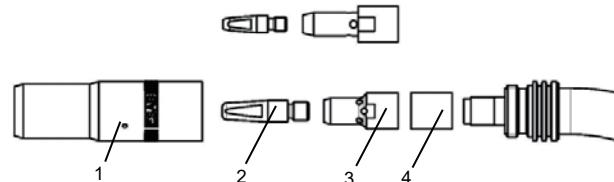
\* supplied as standard.

Wear and spare parts for older models please see instruction manual and contact your local ESAB representative.

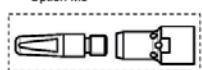
## PSF 260



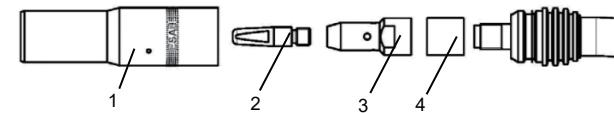
## PSF 415



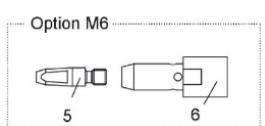
## PSF 315



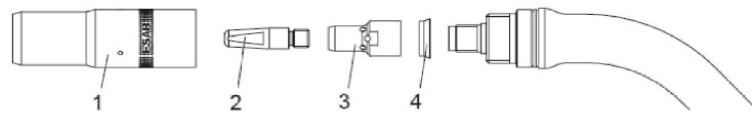
## PSF 515



## PSF 420W



## PSF 520W



**MXL Torches**

Gas-cooled Industrial Series



The next generation of MXL torches has been completely redesigned to give users an improved look, feel and performance with all models when used in industrial applications. All consumables are standard Euro style.

- High-quality torch for industrial use
- Ergonomic handle with knuckle joint
- Both gas and water-cooled models available. Please see separate fact sheet and manual

Specifications							
Model	Cooling	Welding Output Mixed Gas	Welding Output CO2	Wire Diameter	Certification Mark (Standards)	Operating Temperature	Cable Length
MXL 201	Gas	150 A @ 60%	160 A @ 60%	0.6 – 1.0 mm	CE (IEC 60974-7)	-10°C – +40°C	3 m, 4 m
MXL 271		210 A @ 60%	230 A @ 60%	0.8 – 1.2 mm			3 m, 4 m, 5 m
MXL 341		300 A @ 60%	330 A @ 60%	0.8 – 1.6 mm			3 m, 4 m, 5 m

Ordering Information	3 m	4 m	5 m
MXL 201 with Euro Connection	0700025220	0700025221	0700025222
MXL 271 with Euro Connection	0700025230	0700025231	0700025232
MXL 341 with Euro Connection	0700025240	0700025241	0700025242

**MXL Wear Parts**

Wear Parts – Liners	Part Number	MXL 201	MXL 271	MXL 341
<b>Steel liner</b>				
0.8 – 1.0, Blue, 3 m	0700200085	x *	x	x
0.8 – 1.0, Blue, 4 m	0700200086	x *	x	x
0.8 – 1.0, Blue, 5 m	0700025800			x
1.0 – 1.2, Red, 3 m	0700200087		x *	x *
1.0 – 1.2, Red, 4 m	0700200088		x *	x *
1.0 – 1.2, Red, 5 m	0700025801			x *
1.2 – 1.6, Yellow, 3 m	0700025802			x
1.2 – 1.6, Yellow, 4 m	0700025803			x
1.2 – 1.6, Yellow, 5 m	0700025804			x
<b>PTFE liner (for Aluminium)</b>				
1.0 – 1.2, Red, 3 m	0700200091	x	x	x
1.0 – 1.2, Red, 4 m	0700200092	x	x	x
1.0 – 1.2, Red, 5 m	0700025812			x
1.2 – 1.6, Yellow, 3 m	0700025813			x
1.2 – 1.6, Yellow, 4 m	0700025814			x
1.2 – 1.6, Yellow, 5 m	0700025815			x
<b>PA/Bronze-Liner (for aluminium and stainless steel)</b>				
0.8 – 1.0, Anthracite 3 m	0700025816		x	x
0.8 – 1.0, Anthracite 4 m	0700025817		x	x
0.8 – 1.0, Anthracite 5 m	0700025818			x
1.2 – 1.6, Anthracite 3 m	0700025819			x
1.2 – 1.6, Anthracite 4 m	0700025820			x
1.2 – 1.6, Anthracite 5 m	0700025821			x

\* Supplied as standard. For complete list of wear and spare parts please see separate manual or spare parts list.

## MXL Wear Parts

Wear Parts		MXL 201	MXL 271	MXL 341
1	Gas Nozzle Conical	0700200054 (Ø 12 mm)*	0700200055 (Ø 15 mm)*	0700200056 (Ø 16 mm)*
1	Gas Nozzle Tapered	0700200060 (Ø 9.5 mm)	0700200061 (Ø 11 mm)	0700200062 (Ø 12 mm M6)
1	Gas Nozzle Cylindrical	0700200057 (Ø 16 mm)	0700200058 (Ø 20 mm)	0700200059 (Ø 20 mm)
1	Gas Nozzle FCAW	0700200105 (Ø 6.5 mm)		
4	Tip Adaptor M6		0700200073*	0700200074*
4B	Tip Adaptor M8		0700025289	0700025290
5	Nozzle Spring	0700200078	0700200079	
6	Gas Diffusor			0700200080*

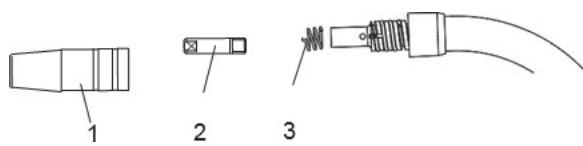
Wear Parts – Contact Tips		MXL 201	MXL 271 / MXL 341		
		Cu			
2	Contact Tip M6 x 25 Ø 0.6	0700200063			
2	Contact Tip M6 x 25 Ø 0.8	0700200064 <sup>1)</sup>			
2	Contact Tip M6 x 25 Ø 0.9	0700200065			
2	Contact Tip M6 x 25 Ø 1.0	0700200066			
			Cu	CuCrZr	Alu Cu
2	Contact Tip M6 x 28 Ø 0.8		0700200068	0700200081	
2	Contact Tip M6 x 28 Ø 0.9		0700200069	0700200082	
2	Contact Tip M6 x 28 Ø 1.0		0700200070 <sup>2)</sup>	0700200083	0700025273
2	Contact Tip M6 x 28 Ø 1.2		0700200071 <sup>3)</sup>	0700200084	0700025274
2B	Contact Tip M8 x 30 Ø 0.8		0700025275	0700025280	
2B	Contact Tip M8 x 30 Ø 0.9			0700025281	
2B	Contact Tip M8 x 30 Ø 1.0		0700025276	0700200103	0700025286
2B	Contact Tip M8 x 30 Ø 1.2		0700025277	0700200104	0700025287
2B	Contact Tip M8 x 30 Ø 1.6		0700025279	0700025285	0700025288

<sup>1)</sup> Supplied as standard

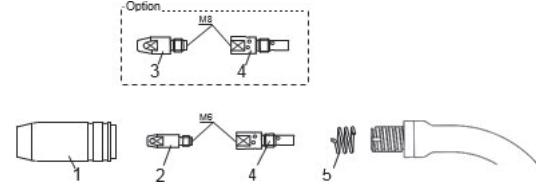
<sup>2)</sup> MXL 271

<sup>3)</sup> MXL 341

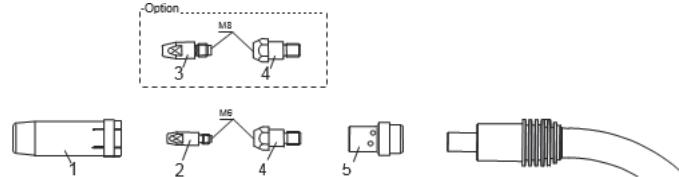
### MXL 201



### MXL 271



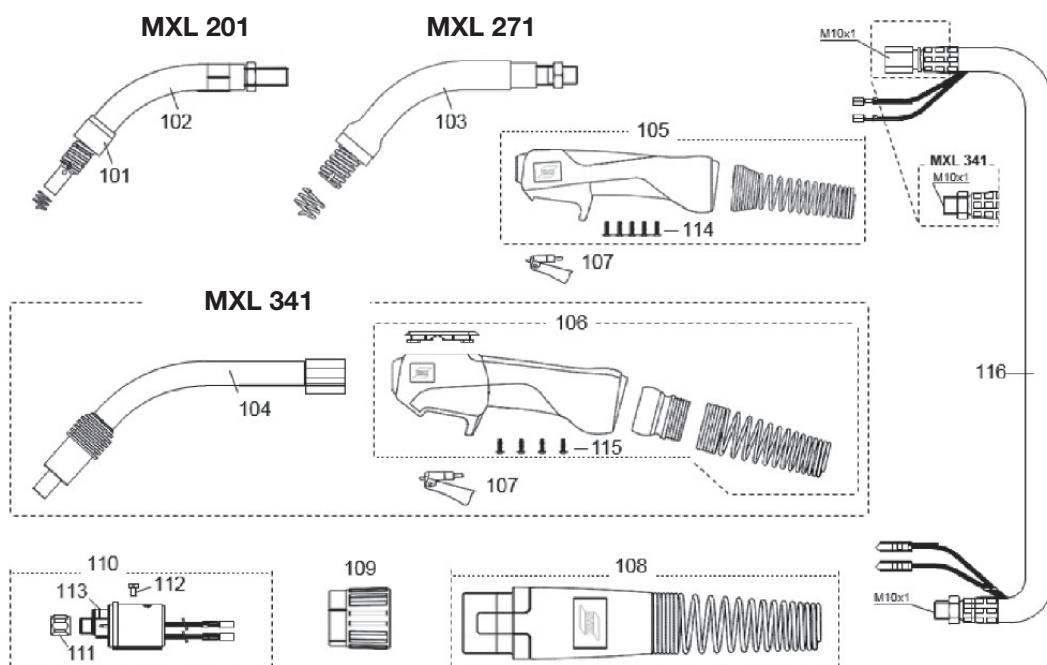
### MXL 341



## MXL Wear Parts

Spare Parts		MXL 201	MXL 271 / MXL 341		
No.	Description	Part Number	MXL 201	MXL 271	MXL 341
101	Head Insulator	0700200096	x		
102	Torch Neck MXL 201	0700025200	x		
103	Torch Neck MXL 271	0700025201		x	
104	Torch Neck MXL 341	0700025202			x
105	Handle Complete Expert Mini	0700025900	x	x	
106	Handle Complete Expert Plus	0700025901			x
107	Trigger, Yellow, 2-poles	0700025903	x	x	x
108	Cable Support cpl.	0700025950	x	x	x
109	Adaptor Nut	0700025951	x	x	x
110	Central Connector G	0700200101	x	x	x
111	Liner Locking Nut	0700200098	x	x	x
112	Cylinder Head Screw M4 x 6	0700025952	x	x	x
113	O-ring 4.0 x 1.0 mm (gas nipple)	0700025953	x	x	x
114	Screw Expert Mini Handle	0700025904	x	x	
115	Screw Expert Plus Handle	0700025904			x

Spare Parts - Cables				
No.	Description	3 m	4 m	5 m
116	Coaxial Cable MXL 201	0700025960	0700025961	-
	Coaxial Cable MXL 271	0700025962	0700025963	-
	Coaxial Cable MXL 341	0700025964	0700025965	0700025966



## MXH Push-pull MIG Torches

Excellent feeding reliability for high demands



The gas-cooled MXH 315PP and water-cooled MXH 420WPP push-pull systems are created for RobustFeed Pulse and Aristo Feed 3004.

- Permanent, stable feeding by precise feed rolls and high-performance motor
- Easy change between a straight- or 45° rotatable swan neck
- Quick change of feeder rolls without tools
- Potentiometer for easy remote access to wire-feed settings

Specifications				
Model	Rated Output, Gas		Wire Size	Cooling
315PP	270 A @ 60% duty cycle, Mixed	310 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.6 mm	Gas
420WPP	400A @ 60% duty cycle, Mixed	430 A @ 60% duty cycle, CO <sub>2</sub>	up to 1.6 mm	Water

Ordering Information	8 m	12 m
MXH 315PP, 0° Straight neck	0700025304	0700025305
MXH 315PP, 45° Swan neck	-	0700025306
MXH 420WPP, 0° Straight neck	0700025307	0700025308
MXH 420WPP, 45° Swan neck	-	0700025309

PP connection and wire feed control kit, Aristo/OrigoFeed 3004 (0459681882)

For wear & spare parts, please see separate instruction manual.

## PSF Fume-extraction MIG Torches

Fume extraction torches with excellent extraction capacity



Range of fume extraction torches with a reliable and robust design, made to capture the fumes directly at the source.

- Leather protected hose
- Robust steel knuckle-joint for improved mobility
- Remote and rotatable T-piece ensures that dirt and fume particles does not interfere with critical parts in the Euro connection
- Extensive and robust PSF wear parts system including CuCrZr tips as standard

Specifications				
Model	Rated Output, Gas		Wire Size	Cooling
260C	250 A @ 60% duty cycle, CO <sub>2</sub>	225 A @ 60% duty cycle, Mixed	up to 1.0 mm	Gas
415C	380 A @ 60% duty cycle, CO <sub>2</sub>	325 A @ 60% duty cycle, Mixed	up to 1.6 mm	Gas
420CW	450 A @ 60% duty cycle, CO <sub>2</sub>	450 A @ 60% duty cycle, Mixed	up to 1.6 mm	Water

Ordering Information	3 m	4 m	5 m
PSF 260C, with Euro Connection	0700025420	0700025421	0700025422
PSF 415C, with Euro Connection	0700025440	0700025441	0700025442
PSF 415C RS3, with Euro Connection	0700025443	0700025444	0700025445
PSF 420CW, with Euro Connection	0700025450	0700025451	0700025452
PSF 420CW RS3, with Euro Connection	0700025453	0700025454	0700025455

RS3 is compatible with any ESAB machines with MA23-, MA24-, MA25-, U6- and U82 control panels as well as RobustFeed Pulse wire feeder.

**EXEOR MIG Torches**

Unique performance



- Exeor is the next generation of torches designed to equip the welder with the best torch for ESAB welding systems
- The slim, ergonomic handle design offers the lowest weight and best balance to avoid fatigue and provides ease of use in multiple positions. The hexagon patterned soft grip area ensures the torch is comfortable to hold
- The gas-cooled MIG 4.0G<sup>2</sup> has enhanced internal gas channels that significantly reduce the heat impact even at high parameters
- On the water cooled MIG 4.0W<sup>2</sup>, the dual cooling channels ensure absolute superior cooling performance even at high parameters
- Slim and well balanced handle with soft grip area
- Excellent cooling performance for less spatter attachment, longer life time of consumables and better working conditions for the welder
- Exeor CX variant with remote module for easy-to- use, simple access to adjust parameters on Warrior Edge welding systems
- Exeor CX variant has LED light for illumination of workpiece in darker working conditions
- Light and flexible rubber strain relief

Specifications						
Welding Output Mixed Gas	Welding Output CO <sub>2</sub>	Wire Diameter	Recommended Gas Flow	Certification Mark (Standards)	Operating Temperature	Cable Length
Gas-cooled: 420 A @ 100% Water-cooled: 450 A @ 100%	Gas-cooled: 420 A @ 100% Water-cooled: 450 A @ 100%	0.8 – 1.6 mm	10 – 20 l/min	CE (IEC 60974-7)	-10°C – + 40°C	3 m, 4 m, 5 m

Ordering Information	3 m	4 m	5 m
Exeor MIG 4.0G <sup>2</sup>	0700025752	0700025753	0700025754
Exeor MIG 4.0G <sup>2</sup> CX, Up/down	0700025755	0700025756	0700025757
Exeor MIG 4.0W <sup>2</sup>	0700025727	0700025728	0700025729
Exeor MIG 4.0W <sup>2</sup> CX, Up/down	0700025730	0700025731	0700025732

Options & Accessories				
Liners		3 m	4 m	5 m
Steel liner, Blue, 0.8 – 1.0 mm		0700200085	0700200086	0700025800
Steel liner, Red HD, 1.0 – 1.2 mm		0700025825	0700025826	0700025827
Steel liner, Grey HD, 1.4 – 1.6 mm		0700025825	0700025826	0700025827
PA/Bronze liner, Anthracite, 0.8 – 1.0 mm		0700025816	0700025817	0700025818
PA/Bronze liner, Anthracite, 1.2 – 1.6 mm		0700025819	0700025820	0700025821

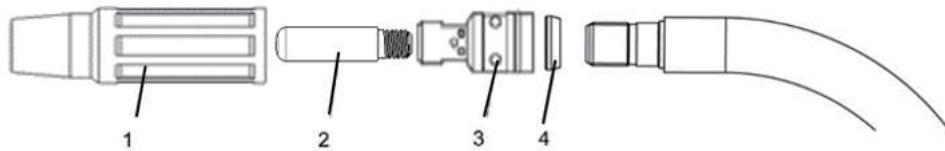


CX module with 3 LEDs indicating the active program.  
Use +/- buttons to adjust parameters or select program.

## EXEOR MIG Torches

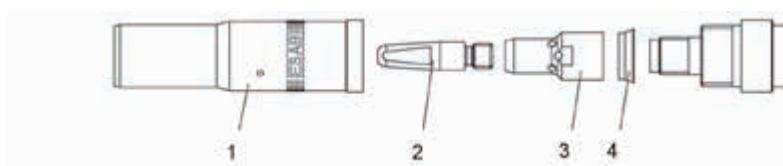
Exeor MIG 4.0G <sup>2</sup>			
No.	Description	Part Number	
1	Gas Nozzle Standard, Ø 16 mm (5/8 in.)	12401200	
1	Gas Nozzle Conical, Ø 14 mm (1/2 in.)	12401201	
1	Gas Nozzle Straight, Ø 19 mm (3/4 in.)	12401202	
3	Tip Adapter	15401136	
4	Insulation Bushing	0700025854	

Contact Tips, M8 x 1.25 x 38 mm			
No.	Wire Size	Inside diameter	Part Number
2	0.9 mm (.035 in.)	1.12 mm (.044 in.)	11601102
2	1.0 mm (.040 in.)	1.22 mm (.048 in.)	11601103
2	1.2 mm (.045 in.)	1.37 mm (.054 in.)	11601104
2	1.3 mm (.052 in.)	1.65 mm (.064 in.)	11601105
2	1.6 mm (1/16 in.)	1.85 mm (.073 in.)	11601106
2	AL 1.20 mm (3/64 in.)	1.50 mm (.059 in.)	11601113
2	AL 1.60 mm (1/16 in.)	2.08 mm (.082 in.)	11601114



Exeor MIG 4.0W <sup>2</sup>			
No.	Description	Part Number	
1	Gas Nozzle Standard, Ø 16 mm (5/8 in.)	0458464882	
1	Gas Nozzle Conical, Ø 14 mm (1/2 in.)	0458465882	
1	Gas Nozzle Straight, Ø 19 mm (3/4 in.)	0458470882	
3	Tip Adapter	0460819001	
4	Insulation Bushing	0458874001	

Contact Tips			
No.	Gas / Wire Ø	Mix/Ar	Part Number
	CO <sub>2</sub>		M8
2	0.8 mm (0.030 in.)		0468502003
2	0.9 mm (0.035 in.)	0.8 mm (0.030 in.)	0468502004
2	1.0 mm (0.040 in.)	0.9 mm (0.035 in.)	0468502005
2	1.2 mm (0.045 in.)		0468502006
2	1.2 mm (0.045 in.)	1.0 mm (0.040 in.)	0468502007
2	1.4 mm (0.052 in.)	1.2 mm (0.045 in.)	0468502008
2	1.6 mm (0.062 in.)		0468502009
2		1.6 mm (0.062 in.)	0468502010



## EXEOR TIG Torches

Multi-functional and ergonomic TIG welding torches



The innovative Exeor TIG torch range is designed to provide excellent ergonomics and outstanding performance in TIG welding applications. With flexible head and on-torch remote current control options, Exeor torches are a versatile choice that provides convenience in all applications. Their slim, compact design, ergonomic handle with its uniquely contoured ESAB pattern and soft grip zones assures a safe and relaxed grip. The long trigger is designed to ensure a natural, easy control of the torch in all hand positions.

Choose between gas-cooled or water-cooled and multiple TIG body options to suit your individual application.

- Ergonomically formed handle with soft grip zones
- Long trigger as standard for easy access and control
- Optional potentiometer for additional parameter control
- Multiple different torch heads available
- Connects directly to your ESAB TIG machine without additional configuration

Specifications				
Model	Welding Output (10 min)	Recommended electrode Ø	Cable Length	Cooling
Exeor SR 17	35%, 130 A AC, 170 A DC	0.5 - 2.4 mm	4 m, 8 m	Water
Exeor SR 21	100%, 240 A AC, 340 A DC	0.5 - 3.2 mm	4 m, 8 m	Water

Ordering Information			
Torch	Cooling	4 m	8 m
Exeor TIG SR 17	Gas	0700026220	0700026221
Exeor TIG SR 17FX	Gas	0700026222	0700026223
Exeor TIG SR 21	Water	0700026290	0700026291
Exeor TIG SR 21FX	Water	0700026292	0700026293

Potentiometer versions for Rebel-, Rogue ET- and Renegade ET-series*			
Exeor TIG SR 17FX-R	Gas	0700026236	0700026237
Exeor TIG SR 21-R	Water	0700026294	0700026295
Exeor TIG SR 21FX-R	Water	0700026296	0700026297

\* Not applicable for Rebel EMP 215iC, Rogue ET180iP, Renegade ET 300iP.

FX = Flexible head, R = Remote

Please see separate fact sheet for wear parts.



Choose between standard one-trigger version or potentiometer version for easy access to adjustment of welding parameters.

## SR-B TIG Torches

Multi-functional and ergonomic TIG welding torches



SR-B torches are dedicated to quality. The torches are designed to provide convenience and versatility. Choose between gas-cooled or water cooled, with or without gas-valve and with optional flexible head to suit your individual application.

- Gas cooled torches always measured at 60% duty cycle. Water cooled at 100% duty cycle
- Ergonomically formed handle with toggle switch
- Cable assembly with swivel cable support on the handle
- The torches are also available with up/down function for ESAB CAN-bus controlled machines. (requires separate adapter)

Specifications				
Model	Rated Output, AC	Rated Output, DC	Electrode Ø	Cooled
SR-B 9	80 A @ 60% duty cycle	110 A @ 60% duty cycle	up to 1.6 mm	Gas
SR-B 17	100 A @ 60% duty cycle	140 A @ 60% duty cycle	up to 2.4 mm	Gas
SR-B 18	225 A @ 100% duty cycle	320 A @ 100% duty cycle	up to 4.0 mm	Water
SR-B 20	160 A @ 100% duty cycle	220 A @ 100% duty cycle	up to 3.2 mm	Water
SR-B 21	240 A @ 100% duty cycle	340 A @ 100% duty cycle	up to 3.2 mm	Water
SR-B 26	140 A @ 60% duty cycle	200 A @ 60% duty cycle	up to 4.0 mm	Gas
SR-B 26 HD	160 A @ 60% duty cycle	230 A @ 60% duty cycle	up to 4.0 mm	Gas
SR-B 400	315 A @ 100% duty cycle	450 A @ 100% duty cycle	up to 4.8 mm	Water

Ordering Information OKC25	4 m	8 m
SR-B 9V	0700025504	0700025505
SR-B 17V	0700025512	0700025513

FX = Flexible head, V = Valve, HD = Heavy Duty, R = Remote

Ordering Information OKC50	4 m	8 m	12 m	16 m
SR-B 9	0700025500	0700025501	-	-
SR-B 9-R	0700025559	-	-	-
SR-B 9FX	0700025506	0700025507	-	-
SR-B 9FX-R	-	0700025562	-	-
SR-B 17	0700025508	0700025509	0700025510	0700025511
SR-B 17-R	0700025563	0700025564	-	-
SR-B 17FX	0700025516	0700025517	-	-
SR-B 17V	0700025514	0700025515	-	-
SR-B 26	0700025518	0700025519	0700025520	0700025521
SR-B 26-R	0700025567	0700025568	-	-
SR-B 26FX	0700025524	0700025525	-	-
SR-B 26FX-R	0700025569	0700025570	-	-
SR-B 26HD	0700025526	0700025527	-	-
SR-B 26V	0700025522	0700025523	-	-
SR-B 26V HD	0700025530	0700025531	-	-
SR-B 26 FX HD	0700025532	0700025533	-	-
SR-B 18	0700025550	0700025551	-	-
SR-B 18FX	0700025554	0700025555	-	-
SR-B 20	0700025534	0700025535	-	-
SR-B 20FX	0700025536	0700025537	-	-
SR-B 21	0700025544	0700025545	0700025546	0700025547
SR-B 21FX	0700025548	0700025549	-	0700025558
SR-B 400	0700025538	0700025539	-	-
SR-B 400 R	0700025575	0700025576	-	-

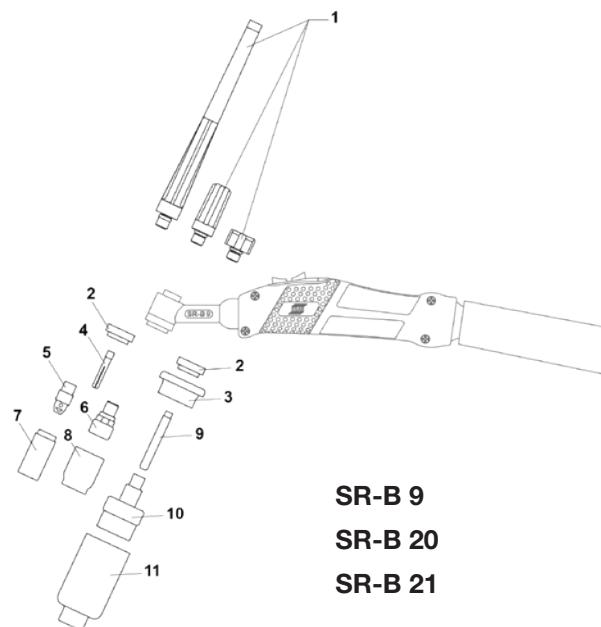
FX = Flexible head, V = Valve, HD = Heavy Duty, R = Remote

## SR-B Wear Parts

Nozzles, collets, collet bodies and gas lenses for **SR-B 9, SR-B 20, and SR-B 21** torches.

Ordering Information SR-B 9, SR-B 20, SR-B 21			
No.	Size	Description	Part Number
1	Long	Back cap	0365310051
	Medium		0365310050
	Short		0365310049
2		Heat shield	<b>0366960017</b>
3		Adaptor Jumbo gas lens	0157123026
4	Ø 0.5	Collet standard and	0365310027
	Ø 1.0	gas lens	0365310028
	Ø 1.6	SR-B 9	<b>0365310029</b>
	Ø 2.0		0700025662
	Ø 2.4	SR-B 20/21	<b>0365310030</b>
	Ø 3.0		0700025663
	Ø 3.2		0365310091
5	Ø 0.5-1.6	Collet body standard	0365310037
	Ø 2.0-2.4		0365310039
	Ø 3.0-3.2		0365310090
6	Ø 1.0	Collet body w. gas lens	0157121016
	Ø 1.6		0157121017
	Ø 2.0-2.4		0157121018
	Ø 3.0-3.2		0157121041
7	Ø 6.4 (No.4)	Gas nozzle standard	0365310044
	Ø 8.0 (No.5)	L=30 mm	0365310045
	Ø 9.8 (No.6)	SR-B 9	<b>0365310046</b>
	Ø 11.2 (No.7)	SR-B 20/21	<b>0365310047</b>
	Ø 12.7 (No.8)		0365310048
	Ø 15.9 (No.10)		0588000440
-	Ø 5.0 (No.3)	Gas nozzle std long	0700025664
	Ø 6.4 (No.4)	L=48 mm	0700025665
	Ø 8.0 (No.5)	L=48 mm	0700025666
	Ø 9.5 (No.6)	L=48 mm	0700025667
	Ø 6.5 (No.4)	L=63 mm	0700025668
	Ø 8.0 (No.5)	L=63 mm	0700025669
	Ø 9.5 (No.6)	L=63 mm	0700025670
	Ø 6.5 (No.4)	L=89 mm	0700025671
8	Ø 6.4 (No.4)	Gas nozzle for gas lens	0157121032
	Ø 8.0 (No.5)	L=25.5 mm	0157121033
	Ø 9.8 (No.6)		0157121034
	Ø 11.2 (No.7)		0157121039
	Ø 12.7 (No.8)		0157121040
-	Ø 6.4 (No.4)	Gas nozzle for gas lens	0700025658
	Ø 8.0 (No.5)	long L=35 mm	0700025659
	Ø 9.8 (No.6)	L=35 mm	0700025660

**Bold** = standard delivery.



**SR-B 9**  
**SR-B 20**  
**SR-B 21**

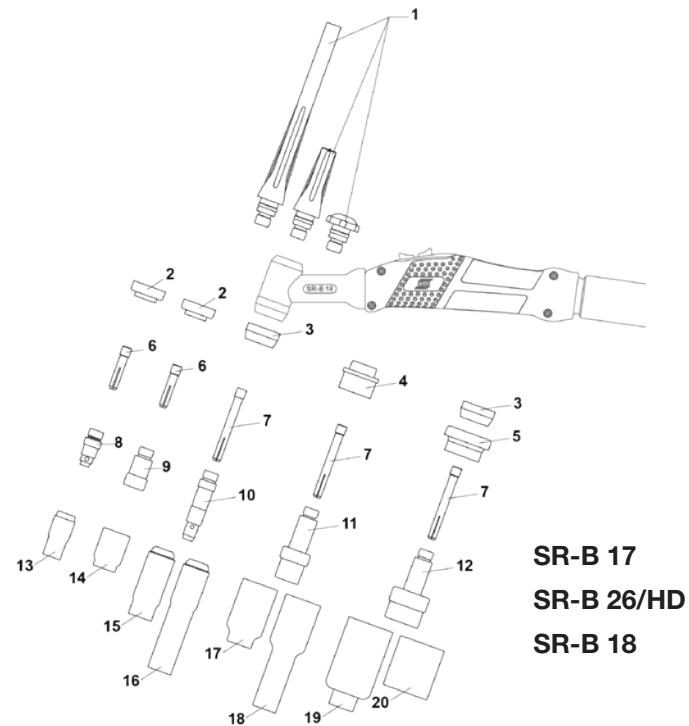
## Ordering Information SR-B 9, SR-B 20, SR-B 21

No.	Size	Description	Part Number
9	Ø 11.2 (No.7)	L=35 mm	0700025661
9	Ø 1.0	Collet for Jumbo gas-	0700025672
	Ø 1.6	lens	0700025673
	Ø 2.0-2.4		0700025674
	Ø 3.0-3.2		0700025675
10	Ø 1.0-1.6	Gas lens, Jumbo	0700025676
	Ø 2.4		0700025677
	Ø 3.2		0700025678
11	Ø 9.8 (No.6)	Gas nozzle for Jumbo-	0157123088
	Ø 12.7 (No.8)	gas lens	0157123089
	Ø 15.9 (No.10)	L=48 mm	0588000438
	Ø 19.0 (No.12)	L=48 mm	0157123098
	Ø 24.0	L=48 mm	0588000437
	Ø 24.0	L=34 mm	0700025679

## SR-B Wear Parts

Nozzles, collets, collet bodies and gas lenses for **SR-B 17**,  
**SR-B 26**, **SR-B 26 HD** and **SR-B 18** torches.

Ordering Information SR-B 17, SR-B 26/HD, SR-B 18			
No.	Size	Description	Part Number
1	Long	Back cap	0157123029
	Medium		0588000591
	Short		0157123028
2		Heat shield small	0700025680
3		Heat shield	<b>0366960016</b>
4		Heat shield gas lens	0366960020
5		Heat shield large gas lens	0366960021
6	Ø 1.0	Collet standard and	0349501216
	Ø 1.6	for gas lens, short	0349501217
	Ø 2.4		0349501218
	Ø 3.2		0349501219
7	Ø 0.5	Collet standard and	0157123009
	Ø 1.0	for gas lens	0157123010
	Ø 1.6		0157123011
	Ø 2.0		0700025681
	Ø 2.4		<b>0157123012</b>
	Ø 3.0		0700025682
	Ø 3.2		0157123013
	Ø 4.0		0157123014
8	Ø 1.0-1.6	Collet body short	0700025683
	Ø 2.0-2.4		0700025684
	Ø 3.0-3.2		0700025685
9	Ø 1.0-1.6	Collet body with gas	0700025686
	Ø 2.4	lens, short	0700025687
	Ø 3.2		0700025688
10	Ø 0.5-1.6	Collet body standard	0157123016
	Ø 2.0-2.4		<b>0157123017</b>
	Ø 3.0-3.2		0157123018
	Ø 4.0		0157123019
11	Ø 1.0	Collet body with	0157123021
	Ø 1.6	gas lens, standard	0157123022
	Ø 2.0-2.4		0157123023
	Ø 3.0-3.2		0157123024
	Ø 4.0		0157123025
12	Ø 1.0	Collet body with extra	0157123083
	Ø 1.6	large gas lens	0157123084
	Ø 2.0-2.4		0157123085
	Ø 3.0-3.2		0157123086
	Ø 4.0		0588000087
13	Ø 6.4 (No.4)	Gas nozzle	0365310044
	Ø 8.0 (No.5)	L=30 mm	0365310045
	Ø 9.8 (No.6)		0365310046
	Ø 11.2 (No.7)		0365310047
	Ø 12.7 (No.8)		0365310048
	Ø 15.9 (No.10)		0588000440
14	Ø 6.4 (No.4)	Gas nozzle for	0157121032
	Ø 8.0 (No.5)	gas lens, short	0157121033
	Ø 9.8 (No.6)	L=25.5 mm	0157121034
	Ø 11.2 (No.7)		0157121039



Ordering Information SR-B 17, SR-B 26/HD, SR-B 18			
No.	Size	Description	Part Number
	Ø 12.7 (No.8)		0157121040
15	Ø 6.4 (No.4)	Gas nozzle standard	0157123052
	Ø 8.0 (No.5)	L=47 mm	0157123053
	Ø 9.8 (No.6)		<b>0157123054</b>
	Ø 11.2 (No.7)		0157123055
	Ø 12.7 (No.8)		0157123056
	Ø 15.9 (No.10)		0588000442
	Ø 19 (No.10)		0588000441
16	Ø 6.4 (No.4)	Gas nozzle standard	0700025689
	Ø 8.0 (No.5)	L=76 mm	0700025690
	Ø 9.8 (No.6)		0700025691
	Ø 11.2 (No.7)		0700025692
17	Ø 6.4 (No.4)	Gas nozzle for	0157123057
	Ø 8.0 (No.5)	gas lens	0157123058
	Ø 9.8 (No.6)	L=42 mm	0157123059
	Ø 11.2 (No.7)		0157123060
	Ø 12.7 (No.8)		0157123061
	Ø 17.5		0588000439
18	Ø 6.4 (No.4)	Gas nozzle for	0700025693
	Ø 8.0 (No.5)	gas lens	0700025694
	Ø 9.8 (No.6)	L=76 mm	0700025695
	Ø 11.2 (No.7)		0700025696
	Ø 12.7 (No.8)		0700025697
19	Ø 9.8 (No.6)	Gas nozzle for gas	0157123088
	Ø 12.5 (No.8)	lens, large	0157123089
	Ø 15.9 (No.10)	L=48mm	0588000438
	Ø 19 (No.12)		0157123098
	Ø 24		0588000437
20	Ø 24	Gas nozzle for gas	0700025679
		lens, short	
		L=34 mm	

**Bold** = standard delivery.

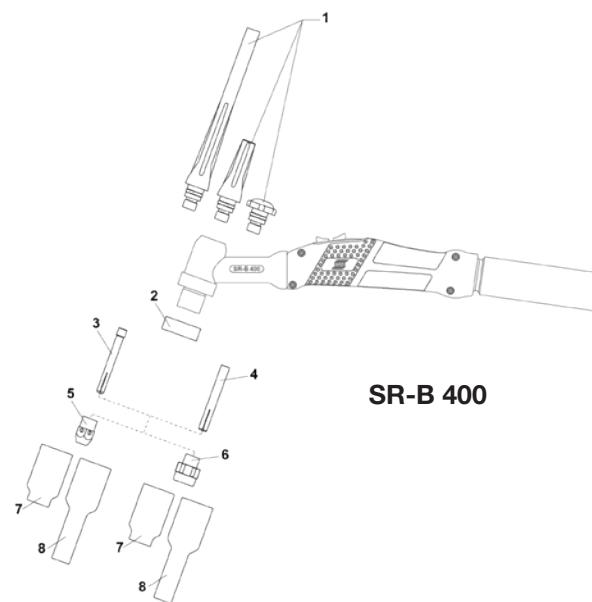
## SR-B Wear Parts

### Subheader

Nozzles, collets, collet bodies and gas lenses for **SR-B 400** torches.

Ordering Information SR-B 400			
No.	Size	Description	Part Number
1	Long	Back cap	0157123029
	Medium		0588000591
	Short		0157123028
2		Heat shield	<b>0366960018</b>
3	Ø 1.0	Collet standard and	0157123010
	Ø 1.6	for gas lens	0157123011
	Ø 2.4		<b>0157123012</b>
	Ø 3.2		0157123013
	Ø 4.0		0157123014
4	Ø 2.4	Collet, heavy duty	0157123077
	Ø 3.2		0157123078
	Ø 4.0		0157123079
	Ø 4.8		0157123074
5	Ø 1.0-3.2	Collet body standard	<b>0157123081</b>
	Ø 3.2-4.8		0157123082
6	Ø 1.0	Collet body with gas-	0157123091
	Ø 1.6	lens	0157123092
	Ø 2.4		0157123093
	Ø 3.2		0157123094
	Ø 4.0		0157123095
	Ø 4.8		0157123075
7	Ø 6.4 (No.4)	Gas nozzle Standard	0157123057
	Ø 8.0 (No.5)	and for gas lens	0157123058
	Ø 9.8 (No.6)	L=42 mm	<b>0157123059</b>
	Ø 11.2 (No.7)		0157123060
	Ø 12.7 (No.8)		0157123061
	Ø 17.5		0588000439
8	Ø 6.4 (No.4)	Gas nozzle Standard	0700025693
	Ø 8.0 (No.5)	and for gas lens	0700025694
	Ø 9.8 (No.6)	L=76 mm	0700025695
	Ø 11.2 (No.7)		0700025696
	Ø 12.7 (No.8)		0700025697

**Bold** = standard delivery.



TXH™ to SR-B Replacement List				
TXH Range		SR-B Range		
TXH 121V OKC25, 4 m	0700300523	SR-B 9V OKC25G 3/8, 4 m		0700025504
TXH 121 OKC50, 4 m	0700300524	SR-B 9 OKC50, 4 m		0700025500
TXH 121F OKC25, 4 m	0700300525	SR-B 9FX OKC50, 4 m	Need OKC50->25 adapter, 0590046800	0700025506
TXH 121F OKC50, 4 m	0700300526	SR-B 9FX OKC50, 4 m		0700025506
TXH 121 OKC50, 8 m	0700300529	SR-B 9 OKC50, 8 m		0700025501
TXH 121F OKC25, 8 m	0700300530	SR-B 9FX OKC50, 8 m	Need OKC50->25 adapter, 0590046800	0700025507
TXH 121F OKC50, 8 m	0700300531	SR-B 9FX OKC50, 8 m		0700025507
TXH 151 OKC25, 4 m	0700300536	SR-B 17 OKC50, 4 m	Need OKC50->25 adapter, 0590046800	0700025508
TXH 151V OKC25, 4 m	0700300537	SR-B 17V OKC25 3/8, 4 m		0700025512
TXH 151 OKC50 4 m	0700300538	SR-B 17 OKC50, 4 m		0700025508
TXH 151V OKC50, 4 m	0700300539	SR-B 17V OKC50 3/8, 4 m		0700025514
TXH 151F OKC25, 4 m	0700300540	SR-B 17FX OKC50, 4 m	Need OKC50->25 adapter, 0590046800	0700025516
TXH 151F OKC50, 4 m	0700300541	SR-B 17FX OKC50, 4 m		0700025516
TXH 151 OKC25, 8 m	0700300542	SR-B 17 OKC50, 8 m	Need OKC50->25 adapter, 0590046800	0700025509
TXH 151 OKC50, 8 m	0700300544	SR-B 17 OKC50, 8 m		0700025509
TXH 151V OKC50, 8 m	0700300545	SR-B 17V OKC50 3/8, 8 m		0700025515
TXH 151F OKC25, 8 m	0700300546	SR-B 17FX OKC50, 8 m	Need OKC50->25 adapter, 0590046800	0700025517
TXH 151F OKC50, 8 m	0700300547	SR-B 17FX OKC50, 8 m		0700025517
TXH 201 OKC50, 4 m	0700300552	SR-B 26 OKC50, 4 m		0700025518
TXH 201V OKC50, 4 m	0700300553	SR-B 26V OKC50 3/8, 4 m		0700025522
TXH 201F OKC50, 4 m	0700300554	SR-B 26FX OKC50, 4 m		0700025524
TXH 201 OKC50, 8 m	0700300555	SR-B 26 OKC50, 8 m		0700025519
TXH 201V OKC50, 8 m	0700300556	SR-B 26V OKC50 3/8, 8 m		0700025523
TXH 201F, OKC50, 8 m	0700300557	SR-B 26FX OKC50, 8 m		0700025525
TXH 201 OKC25, 4 m	0700300558	SR-B 26 OKC50, 4 m	Need OKC50->25 adapter, 0590046800	0700025518
TXH 201F OKC25, 4 m	0700300559	SR-B 26FX OKC50, 4 m	Need OKC50->25 adapter, 0590046800	0700025524
TXH 201 OKC25, 8 m	0700300560	SR-B 26 OKC50, 8 m	Need OKC50->25 adapter, 0590046800	0700025519
TXH 251w OKC50, 4 m	0700300561	SR-B 20 OKC50, 4 m		0700025534
TXH 251wF OKC50, 4 m	0700300562	SR-B 20FX OKC50, 4 m		0700025536
TXH 251w OKC50, 8 m	0700300563	SR-B 20 OKC50, 8 m		0700025535
TXH 251wF OKC50, 8 m	0700300564	SR-B 20FX OKC50, 8 m		0700025537
TXH 401w OKC50, 4 m	0700300565	SR-B 400 OKC50, 4 m		0700025538
TXH 401w HD OKC50, 4 m	0700300566	SR-B 400 OKC50, 4 m		0700025538
TXH 401w OKC50, 8 m	0700300567	SR-B 400 OKC50, 8 m		0700025539
TXH 401w HD OKC50, 8 m	0700300568	SR-B 400 OKC50, 8 m		0700025539
TXH 121r OKC50, 4 m	0700300620	SR-B 9-R OKC50, 4 m		0700025559
TXH 121Fr OKC50, 8 m	0700300623	SR-B 9FX-R OKC50, 8 m		0700025562
TXH 151r OKC50, 4 m	0700300624	SR-B 17-R OKC50, 4 m		0700025563
TXH 151r OKC50, 8 m	0700300626	SR-B 17-R OKC50, 8 m		0700025564
TXH 201r OKC50, 4 m	0700300628	SR-B 26-R OKC50, 4 m		0700025567
TXH 201Fr OKC50, 4 m	0700300629	SR-B 26FX-R OKC50, 4 m		0700025569
TXH 201r OKC50, 8 m	0700300630	SR-B 26-R OKC50, 8 m		0700025568
TXH 201Fr OKC50, 8 m	0700300631	SR-B 26FX-R OKC50, 8 m		0700025570
TXH 251wr OKC50, 4 m	0700300632	SR-B 21-R OKC50, 4 m		0700025571
TXH 251wFr OKC50, 4 m	0700300633	SR-B 21FX-R OKC50, 4 m		0700025573
TXH 251wr OKC50, 4 m	0700300634	SR-B 21-R OKC50, 8 m		0700025572
TXH 251wFr OKC50, 8 m	0700300635	SR-B 21FX-R OKC50, 8 m		0700025574
TXH 401wr OKC50, 4 m	0700300636	SR-B 400-R OKC50, 4 m		0700025575
TXH 401wr OKC50, 8 m	0700300638	SR-B 400-R, OKC50, 8 m		0700025576
TXH 251W, 8 m Wheel Remote	0700300659	SR-B 21R, 8 m Heliarc	Only Heliarc marchines	0700025577
TXH 401W, 8 m Wheel Remote	0700300660	SR-B 400-R, 8 m Heliarc	Only Heliarc marchines	0700025579
TXH 251W, 8 m Flex Wheel Remote	0700300663	SR-B 21FX-R, 8 m Heliarc	Only Heliarc marchines	0700025578
TXH 252w, 4 m	0700300855	SR-B 21, OKC50, 4 m		0700025544
TXH 252w, 8 m	0700300856	SR-B 21, OKC50, 8 m		0700025545
TXH 202, 4 m (Rebel 8-pin)	0700300857	SR-B 26, 4 m Rebel	Only Rebel's with solenoid valve	0700025580

**XCT-B TIG Torches**

High performance and compact design TIG Torches

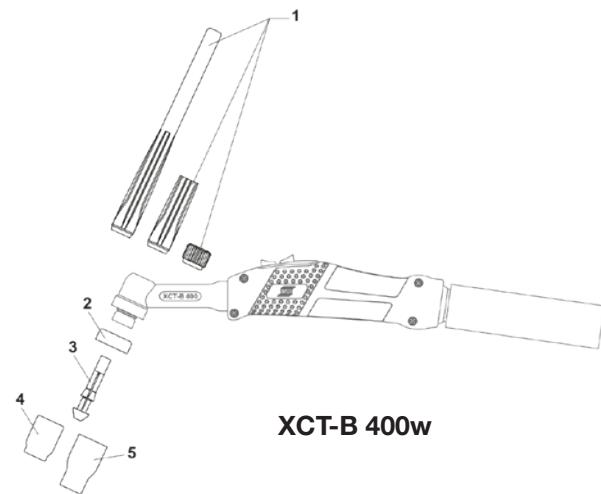


- Torch head and XCT collet have been carefully optimised. The torch achieves gas shielding that is comparable with using a gas lens
- Simplified system with only three extremely durable wear parts
- Equipped with the new Precision Switch technology allowing for precise operation with optimised ergonomics
- Extensively tested and a proven, compact design with high durability
- Extremely compact head size

Specifications				
Model	Rated Output, AC	Rated Output, DC	Electrode Ø	Cooled
XCT-B 400w	315 A @ 60% duty cycle	450 A @ 60% duty cycle	up to 4.0 mm	Water

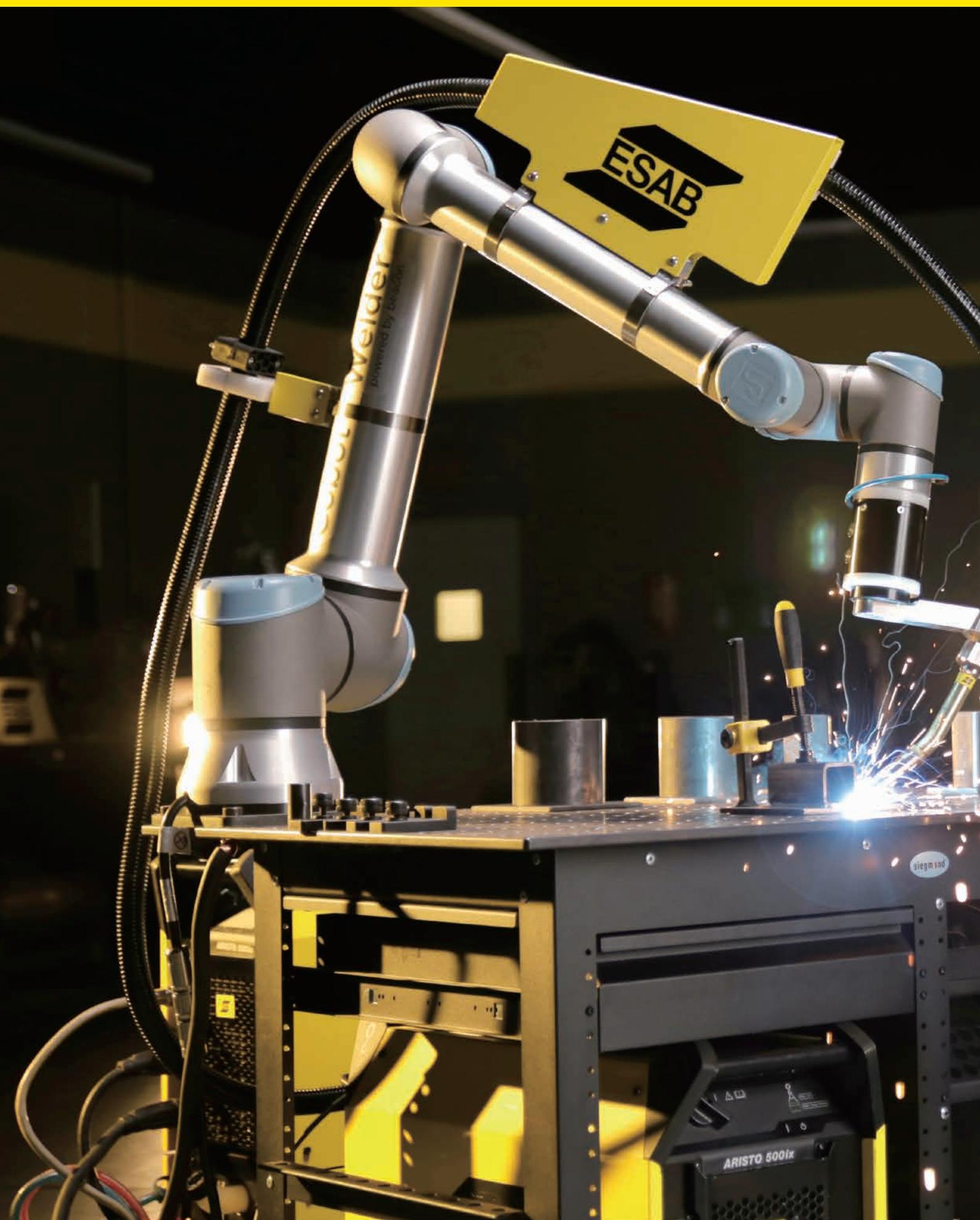
Ordering Information	4 m	8 m	12 m	16 m
XCT-B 400w	0700025540	0700025541	0700025542	0700025543

Ordering Information SR-B 400			
No.	Size	Description	Part Number
1	Long	Back cap	0700025650
	Medium		0700025651
	Short		0700025652
2		Heat shield	0700025653
3	Ø 1.6	Collet	0700025654
	Ø 2.4		0700025655
	Ø 3.2		0700025656
	Ø 4.0		0700025657
4	Ø 6.4 (No.4)	Gas nozzle Standard	0157121032
	Ø 8.0 (No.5)		0157121033
	Ø 9.8 (No.6)	L=25.5 mm	0157121034
	Ø 11.2 (No.7)		0157121039
	Ø 12.7 (No.8)		0157121040
	Ø 16.0 (No.10)		0700025698
5	Ø 6.4 (No.4)	Gas nozzle	0700025658
	Ø 8.0 (No.5)		0700025659
	Ø 9.8 (No.6)	L=35.0mm	0700025660
	Ø 11.2 (No.7)		0700025661
	Ø 16.0 (No.10)		0700025699





# // ROBOTIC WELDING SOLUTION



ON



## Automation and Robotics Integration

In 1974, ESAB and ASEA (today's ABB) created the world's first electric welding robot. Since then, the industry has been transformed by developments in robotic welding technology, many pioneered by, or in collaboration with, ESAB.

Dual stations and robot travel tracks (1976), ceiling-mounted robots on a travelling gantry (1978), free-programmable positioners (1981), fully flexible manufacturing systems for arc welding (1984) – this relentless pace of development has made us a world leader. This leadership brings worldwide applications experience and expertise to the mutual benefit of everyone.

As an ESAB customer, you gain full and personal access to an unrivaled source of technical application expertise, service, and support.

Our worldwide representation and network of independent distributors offer practical knowledge and technical solutions. Our knowledge in material properties, welding, cutting or general productivity enhancement is second to none.



### Aristo® 500ix

Portable heavy industrial pulse welding machine

■ SEE PAGE 12



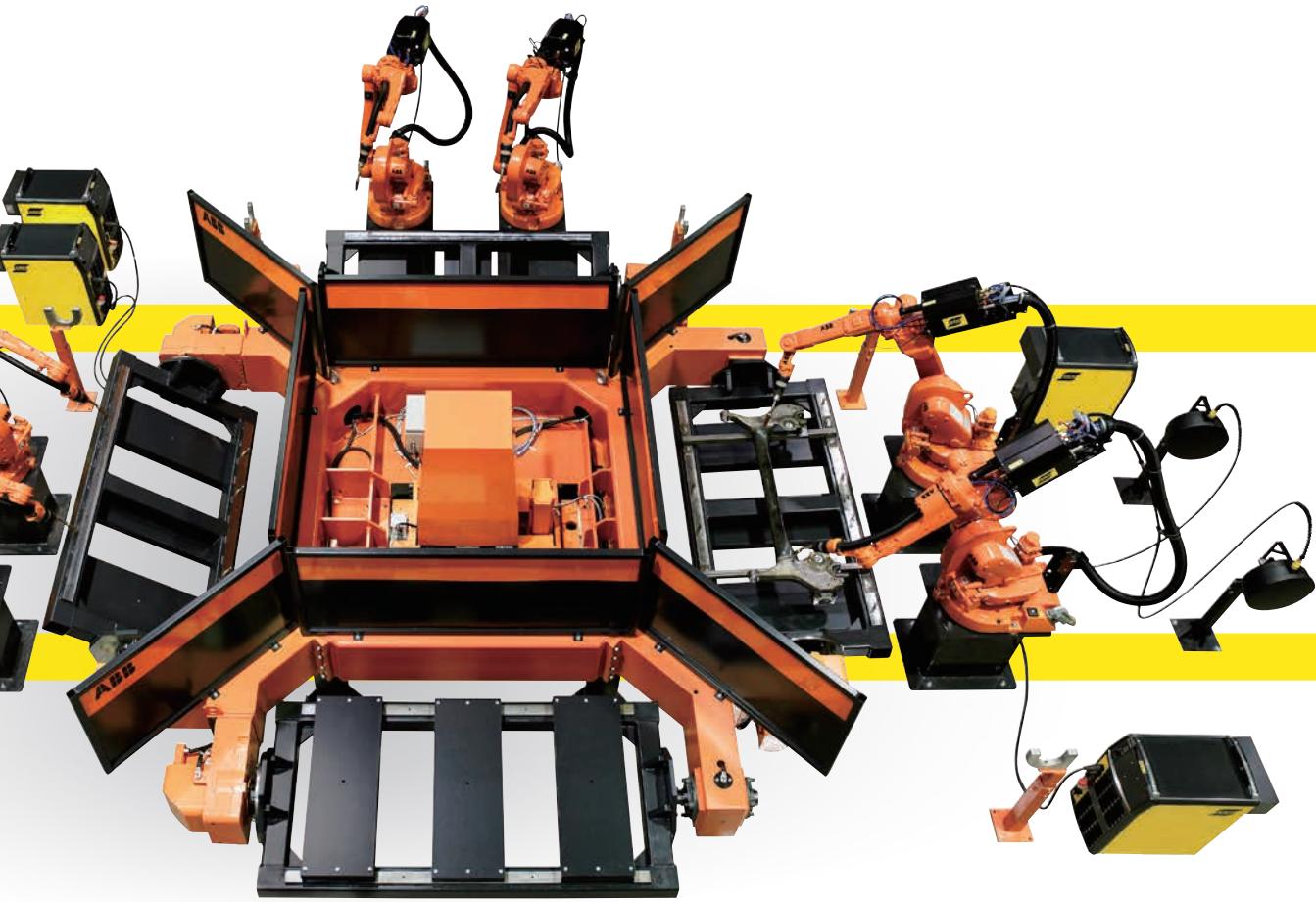
RoboFeed 3804w ELP 12p

### Transmig DP Series

Heavy-duty digital inverter pulse GMAW welder with 100% duty cycle

■ SEE PAGE 16





## Transmig P Series

Heavy-duty digital inverter pulse GMAW welder with 100% duty cycle

■ SEE PAGE 17

## Transmig H Series

Heavy-duty digital inverter GMAW welder with 100% duty cycle

■ SEE PAGE 18



## Arsito Edge 500R

Powerful robotic power source



### Specifications

<b>Mains Voltage</b>	380 - 575V $\pm 10\%$ , 3 ph, 50/60 Hz
<b>Welding Output GMAW (MIG/MAG)</b>	500 A / 39.0 V @ 60% Duty Cycle 400 A / 34.0 V @ 100% Duty Cycle
<b>Standby Power</b>	43 W
<b>Open Circuit Voltage</b>	54.8 V
<b>Efficiency at Max Current (MMA)</b>	89%
<b>Power Factor at Max Current (MMA)</b>	0.91
<b>Efficiency at Max Current MIG/MAG</b>	88 %
<b>Power Factor at Max Current MIG/MAG</b>	0.93
<b>Dimensions L x W x H</b>	700 x 325 x 680 mm
<b>Weight</b>	85 kg
<b>Operating Temperature</b>	-20 ~ +55°C
<b>Enclosure Class</b>	IP23
<b>Application Class</b>	S
<b>Insulation Class</b>	H
<b>Certification Mark (Standards)</b>	CCC, CE, CSA
<b>Cooling Unit</b>	
<b>Cooling Power</b>	1.4 kW
<b>Coolant Volume</b>	4.7 l
<b>Max Flow</b>	2.0 l/min
<b>Max Pressure</b>	4.5 bar

### Ordering Information

Aristo Edge 500R, CCC	0446300892
Aristo Edge 500R, CE 380-460V	0446300890
Aristo Edge 500R, CSA 460-575V	0446300891

The Aristo Edge 500R power source is a key component of the cutting-edge Aristo Edge RoboSystem, a comprehensive robotic welding solution. This system incorporates the Aristo Edge 500R power supply, RoboFeed Edge robotic wire feeder, an automation gateway (AGW), various torch options, and dress kits (brackets and cables) tailored for diverse robotic systems. Designed to harness unique synergies among its components, the RoboSystem facilitates advanced robotic capabilities such as seam tracking and nozzle/wire sensing.

Equipped with state-of-the-art digital control electronics from ESAB, the Aristo Edge 500R ensures precise arc starts and enhanced stability across all GMAW transfer modes, including SPEED and THIN, effectively minimizing spatter. The SPEED mode offers superior control at higher travel speeds, reduced spatter, deeper and more focused penetration in fillet welds, and the ability to weld in narrower grooves.

Moreover, the innovative Aristo Edge platform empowers independent development, optimization, and updates for each welding process. This feature instills users with confidence, knowing they are investing in a future-proof system that can adapt to evolving technological advancements.

- Easy to integrate
- Multi-Voltage
- Intuitive User Interface
- Different weld modes deliver high weld quality
- Integrated IoT and Automation Gateway
- Integrated Cooling Unit

### Options & Accessories

Coolant 10l	0465720002
Wheel Kit, power source	0465416880
<b>Interconnection Cables</b>	
Interconnection cable 95mm <sup>2</sup> 2 m (6.5 ft)	0446505880
Interconnection cable 95mm <sup>2</sup> 5 m (16 ft)	0446505881
Interconnection cable 95mm <sup>2</sup> 10 m (33 ft)	0446505882
Interconnection cable 95mm <sup>2</sup> 15 m (49 ft)	0446505883
Interconnection cable 95mm <sup>2</sup> 20 m (66 ft)	0446505884
Interconnection cable 120mm <sup>2</sup> 2 m (6.5 ft)	0446505890
Interconnection cable 120mm <sup>2</sup> 5 m (16 ft)	0446505891
Interconnection cable 120mm <sup>2</sup> 10 m (33 ft)	0446505892
Interconnection cable 120mm <sup>2</sup> 15 m (49 ft)	0446505893
Interconnection cable 120mm <sup>2</sup> 20 m (66 ft)	0446505894

### Anybus Module for Automation Gateway (AGW)

Anybus - EtherNet/IP	0447533001
Anybus - EtherCAT	0447533002
Anybus - Modbus TCP	0447533003
Anybus - Profibus	0447533004
Anybus - DeviceNet	0447533005
Anybus - CANopen	0447533006
Anybus - Profinet-IRT	0447533007

## Transmig™ RobFeed 304R

The optimum wire feeding solution for robotic applications



The RobFeed 304R wire feeders are designed for use with the Transmig series welding power sources. Equipped with wire feed rollers for various welding wires, it can be used for high-quality welding of carbon steel, stainless steel, aluminum alloy and other welding wires. With preset current (wire feed speed)/preset voltage regulation, it produces clean, reliable arc starting and reduces defects such as wire sticking and spattering. The reliable, lightweight nature of the RobFeed 304R wire feeders makes them ideal for robotic welding applications.

- Welding current (wire feed speed)/welding voltage, adjustable on wire feeder
- Feed speed can be continuously adjusted in the range of 2-22 m/min
- Wire feed roll design provides reliable wire feed and can be changed quickly
- High-torque motor provides powerful Feed power, and the shape and structure are sturdy and durable

Specifications	
<b>Rated welding current</b>	500 A @ 100%
<b>Feeding voltage of motor</b>	DC 24 V
<b>Wire dimensions</b>	Ø 0.8 mm ~ Ø 1.6 mm
<b>Rated drawing force</b>	100 N
<b>Wire feeding speed</b>	2.0 ~ 22.0 m/min
<b>Weight</b>	4 kg
<b>Dimension</b>	290 x 210 x 240 mm

Ordering Information	
Transmig RobFeed 304R	ICFC960213

Options & Accessories	
FeedRoller/Feed304/ 0.8-1.0/V	ICFC960238
FeedRoller/Feed304/ 1.0-1.2/V	ICFC960239
FeedRoller/Feed304/ 1.2-1.6/V	ICFC960240
FeedRoller/Feed304/ 1.0-1.2/U	ICFC960241
FeedRoller/Feed304/ 1.2-1.6/U	ICFC960242
PressureRoller/Feed304/Flat	ICFC960243
PressureRoller/Feed304/1.0-1.2/U	ICFC960244
PressureRoller/Feed304/1.2-1.6/U	ICFC960245
Inlet wire guide 2mm/Feed304	ICFC960246
Middle wire guide 2mm/Feed304	ICFC960247
Outlet wire guide 2mm/Feed304	ICFC960248

**Aristo® RoboFeed 3804 HW & FeedControl 3804 HW**

Optimum feeding solution for hollow wrist robots



Aristo RoboFeed 3804 HW is a completely enclosed feeding unit that provides operational functions for gas purge and wire inching. It is specially designed for use with hollow wrist robots that include the torch package inside the robot arm. The PCB sits inside the Aristo FeedControl 3804 HW box instead of inside the feeder housing in order to maintain a lighter weight.

The digitally controlled feed unit allows for accurate speed control with the aid of a pulse encoder on speeds ranging from 0.8 to 30.0 m/min. The 4-roll feed mechanism includes grooves in both the feed and pressure rolls to ensure stable feeding and low wear on the wire. Aristo RoboFeed 3804 HW is available with Ø38 mm rollers for wires up to Ø1.6 mm.

- Low weight and compact size
- High Duty Cycle (500 A / 60% - 400 A / 100%)
- Tool-free wear parts exchange
- Touch Sense through gas nozzle or wire

Specifications	
<b>Aristo RoboFeed 3804 HW</b>	
<b>Input Voltage</b>	60 V DC (PWM)
<b>Welding Output</b>	500 A @ 60% 400 A @ 100%
<b>Drive Mechanism</b>	4WD
<b>Drive Rollers</b>	Ø 38 mm
<b>Wire Feed Speed</b>	0.8 - 30.0 m/min
<b>Torch Connection</b>	EURO
<b>Dimensions L x W x H</b>	251 x 182 x 221 mm
<b>Weight</b>	5.8 kg
<b>Speed Control</b>	Pulse encoder
<b>Wire Dimensions</b>	0.8 – 1.6 mm
<b>Wire Dimensions, Cored Wire</b>	0.9 – 1.6 mm
<b>Operating Temperature</b>	-10 ~ +40°C
<b>Enclosure Class</b>	IP 2x
<b>Standards</b>	IEC 60974-5, IEC 60974-10
<b>Aristo FeedControl 3804 HW</b>	
<b>Input Voltage</b>	42 V AC
<b>Duty Cycle</b>	500 A / 60%, 400 A / 100%
<b>Dimensions L x W x H</b>	330 x 118 x 320 mm
<b>Weight</b>	4.9 kg
<b>Operating Temperature</b>	-10 ~ +40°C
<b>Enclosure Class</b>	IP 2x
<b>Standards</b>	IEC 60974-5, IEC 60974-10

Ordering Information	
Aristo RoboFeed 3804 HW	0465040881
Aristo FeedControl 3804 HW	0461080882

Options & Accessories	
Cable Kit Assembly, 3.6 m, universal air/water-cooled	0465412885
Cable Kit Assembly, 5.0 m, universal air/water-cooled	0465412884
Interconnection Cable 5.0 m, air-cooled	0740538890
Interconnection Cable 10.0 m, air-cooled	0740538881
Interconnection Cable 15.0 m, air-cooled	0740538882
Interconnection Cable 5.0 m, water-cooled	0740538895
Interconnection Cable 10.0 m, water-cooled	0740538886
Interconnection Cable 15.0 m, water-cooled	0740538887
Quick Connector Marathon Pac	F102440880

Cable kit assembly connects RoboFeed 3804 HW to FeedControl 3804 HW. Interconnection cables connects the power source to the FeedControl 3804 HW.

Bracket kits to mount the RoboFeed 3804 HW and the connection cable between RoboFeed and FeedControl 3804 HW on the robot are available for different robot brands and models. Please contact your regional ESAB representative for more information.

## Aristo® RoboFeed 3804W

The optimum wire feeding solution for robotic applications



Aristo RoboFeed 3804W is a completely enclosed feeding unit which includes the drive control system and the operational functions for gas purge and wire inching, forward and reverse. The unit is equipped with mounting bolts with rubber absorbers to protect the components from the high acceleration and deceleration forces of the robot.

- The Aristo robot package offers more than 200 pre-programmed synergic lines as well as memory for 255 parameters or schedules
- Easy to connect/disconnect by using quick connectors for gas, liquid, control signals and welding current
- TrueArcVoltage™ system for continuous measurement of the arc length
- All control functions at the front of the feeder or accessible via Aristo U82 or external control panels
- CAN-Bus for internal communication between the components
- Detects anti-collision through the CAN-Bus
- Forward and reverse wire feed inching
- Shielding and cleaning gas purge

Specifications	
<b>Input Voltage</b>	42 V 50/60Hz
<b>Welding Output</b>	500 A @ 60% / 400 A @ 100%
<b>Drive Mechanism</b>	4WD
<b>Speed Control</b>	Pulse encoder
<b>Wire Feed Speed</b>	0.8 - 30.0 m/min
<b>Wire Dimensions:</b> <b>Mild Steel/Stainless Steel</b>	0.8 - 1.6 mm
<b>Aluminium</b>	1.0 - 1.6 mm
<b>Cored Wire</b>	0.9 - 1.6 mm
<b>Speed Control</b>	Pulse encoder
<b>Drive Rollers</b>	Ø 38mm
<b>Torch Connection</b>	EURO
<b>Operating Temperature</b>	-10°C ~ +40°C
<b>Enclosure Class</b>	IP 2X
<b>Standards</b>	IEC 60974-5, IEC 60974-10
<b>Dimensions L x W x H</b>	362 x 246 x 235 mm
<b>Weight</b>	7.3 kg

Ordering Information	
Aristo RoboFeed 3804W ELP 12p	0461000892C

Options & Accessories	
Interconnection cable 5.0 m air-cooled	0740538890
Interconnection cable 10.0 m air-cooled	0740538881
Interconnection cable 15.0 m air-cooled	0740538882
Interconnection cable 5.0 m water-cooled	0740538895
Interconnection cable 10.0 m water-cooled	0740538886
Interconnection cable 15.0 m water-cooled	0740538887
Interconnection cable 25.0 m water-cooled	0740538888
Interconnection cable 35.0 m water-cooled	0740538889

## Robofeed Edge

High performance robotic wire feeder

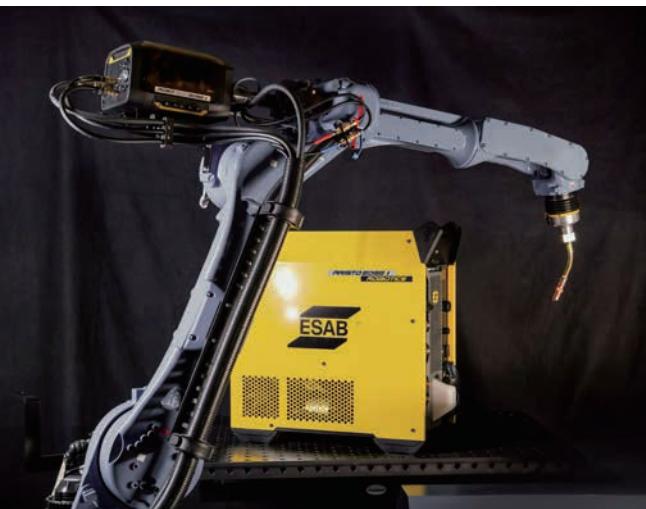


### Specifications

<b>Duty Cycle</b>	600 A @ 60% 500 A @ 100%
<b>Welding Processes</b>	GMAW (MIG/MAG)
<b>Drive Mechanism</b>	4WD
<b>Wire Feed Speed</b>	0.8 - 35 m/min
<b>Drive Rollers</b>	Ø 38 mm
<b>Wire Dimensions</b>	0.8 - 1.6 mm
<b>Welding Torch Connector</b>	ESAB TrueArcPin (TAP) or EURO Connector
<b>Power Supply</b>	60 VDC
<b>Power Requirement</b>	48 W
<b>Rated Supply Current</b>	0.8 A
<b>Operating Temperature</b>	-10 ~ 40°C
<b>Enclosure Class</b>	IP2X
<b>Application Class</b>	S
<b>Certification Mark (Standards)</b>	CE, CSA
<b>Dimension</b>	322 x 235 x 182 mm
<b>Weight*</b>	5.5 kg

### Ordering Information

RoboFeed Edge TrueArcPin (TAP) CE/CSA	0445900880
RoboFeed Edge EURO CE/CSA	0445900881



ESAB RoboFeed Edge is a compact and powerful wire feeder developed for the Aristo Edge RoboSystem robotic welding solution.

The Aristo Edge RoboSystem includes the Aristo Edge 500R power supply, RoboFeed Edge wire feeder, an automation gateway (AGW), a variety of torch options and dress kits (bracket and cables) for different robotic systems. All components have been developed to achieve unique synergic effects together for high performance GMAW welding.

An innovative mounting design allows rapid installation and easy maintenance of the RoboFeed Edge on both hollow wrist (HW) and standard robot arms. Internal LED lights illuminate the feed mechanism allowing feed rollers to be easily and safely changed. Feeder rollers are available up to Ø1.6 mm (1/16 in.).

- Easy to install
- Torch connection features a unique ESAB torch module which allows a high duty cycle with less heat generation
- Integrated wire brake function for accurate wire touch sense results
- Advanced shielding gas control: Digital setup of shielding gas flow for each weld with high potential for shielding gas savings
- PreciDrive wire drive mechanism combined with a high-power density motor maintains precision and agile wire feeding performance to promote consistent weld quality
- Integrated HMI for quick access

### Options & Accessories

I/O connector kit <sup>1)</sup>	0447030880
Intermediate cable 95mm <sup>2</sup> 3.2m (11ft) <sup>2)</sup>	0446504880
Intermediate cable 95mm <sup>2</sup> 4.6m (15ft) <sup>2)</sup>	0446504881
Intermediate cable 120mm <sup>2</sup> 3.2m (11ft) <sup>2)</sup>	0446504890
Intermediate cable 120mm <sup>2</sup> 4.6m (15ft) <sup>2)</sup>	0446504891

### DressKit Accessories <sup>3)</sup>

DressKit Yaskawa AR1440	0447790880
DressKit Yaskawa AR1730/2010	0447790881
DressKit Yaskawa AR3120	0447790882
DressKit Fanuc ArcMate 100iD,100iD/8L-10L, 120iD, 120iD/12L	0447791880
DressKit KUKA KR6-R1840/KR8-R1640	0447792880
DressKit KUKA KR8-R1440 HW	0447792881
DressKit KUKA KR8-R2100 HW	0447792882
DressKit KUKA KR8/KR16/KR20/KR22 - R2010/R1610	0447792883
DressKit KUKA KR20 R3100	0447792884
DressKit ABB IRB 2400	0447793880
DressKit ABB IRB 2600 – 165 & 185 & 2m	0447793881
DressKit ABB IRB 1520iD	0447793882
DressKit ABB IRB 1660iD	0447793883
DressKit ABB IRB 2660iD	0447793884
DressKit ABB IRB 1410	0447793885
DressKit ABB IRB 1600	0447793886

<sup>1)</sup> Including 3 digital output and 1 digital input 24V DC on the RoboFeed Edge.

<sup>2)</sup> The Intermediate cable is the cable assembly between wire feeder and split box, universal for water and gas cooled. Same design for Hollow Wrist (HW) and Standard Arm Robots.

<sup>3)</sup> DressKits include Feeder Bracket, Quick connector, Cable bracket and Split box.

## Aristo® U8<sub>2</sub> & W8<sub>2</sub>

The ultimate control system for Aristo power sources and wire feeders



Aristo U8<sub>2</sub> Plus



Aristo W8<sub>2</sub> Integrated

Aristo W8<sub>2</sub> Fieldbus

The Aristo® U8<sub>2</sub> control panel is used in combination with Aristo RoboFeed 3804W and Aristo welder to set and adjust welding parameters. The U8<sub>2</sub> is developed to meet the most demanding requirements yet is designed to be simple and easy to use. The system allows you to perform Pulsed or Non pulsed welding with solid or flux cored wire on mild/carbon steel as well as on Stainless. Using solid wire, you can also achieve optimal results in aluminum.

- Supports manual and automated welding applications
- Dials for quick setting of wire feed speed and voltage
- QSet for optimum Short Arc setting
- Limit editor set and measured values
- Release pulse to release frozen wire
- LAN (via Aristo W8<sub>2</sub> )
- WeldPoint
- Standard package synergic lines (92)
- Additional for Aristo U8<sub>2</sub> Plus:
  - Complete package synergic lines
  - Aristo SuperPulse™ Functionality
  - File manager and auto-save mode
  - User defined synergic lines
  - Production statistics

Specifications		
Model	Aristo U8 <sub>2</sub>	Aristo W8 <sub>2</sub>
<b>Input voltage</b>	42 V, 50/60 Hz	42 V, 50/60 Hz
<b>Power supply (from robot)</b>	24 V, DC	24 V, DC
<b>Communication system</b>	CANbus	CANbus
<b>Dimensions, L x W x H</b>	244 x 222 x 48 mm	366 x 101 x 159 mm
<b>Enclosure class</b>	IP23	IP23
<b>Operating temperature</b>	-10°C ~ +40°C	-10°C ~ +40°C
<b>Transport temperature</b>	-25°C ~ +55°C	-25°C ~ +55°C
<b>Weight</b>	1.2 kg	4 kg
<b>Standards</b>	IEC/EN 60974 -1, -10	IEC/EN 60974 -1, -10

Ordering Information	
Aristo U8 <sub>2</sub> Plus	0460820881
Aristo U8 <sub>2</sub> Plus I/O	0460820882
Aristo W8 <sub>2</sub> Integrated	0460891880
Aristo W8 <sub>2</sub> Fieldbus (DeviceNet)	0460891881
Aristo W8 <sub>2</sub> Fieldbus (Profibus)	0460891882
Aristo W8 <sub>2</sub> Fieldbus (CANopen)	0460891883
Aristo W8 <sub>2</sub> Fieldbus (Ethernet)	0460891884

Options & Accessories	
Extension cable Aristo U8 <sub>2</sub> , 7.5 m	0460877891
<b>Interconnection cable W8<sub>2</sub> for:</b>	
Aristo Mig 5000iW/U5000iW	0456527885
Aristo 500iX	0462000880

Delivery content Aristo U8<sub>2</sub> : 1.2 m control cable with 12p connector, complete holder and English user manual.

Delivery content W8<sub>2</sub> Fieldbus: English installation manual.

## WeldScanner

Multi-talented recording device



The WeldScanner is easy to operate and simple to connect to any welding power source

The WeldScanner is a multipurpose measuring device, usable as data logger, oscilloscope and for validation – designed by welding experts.

- Documentation of welding seams
- Easily find the root cause of errors
- Cooling time measurement for T 8/5
- Convenient data export
- Interactive touch screen with curve progression that shows all welding parameters
- Rugged system made to withstand use in rough conditions for daily use
- Easy to operate and simple to connect to any welding power source

### Various Applications

- Automatic recording of weld time and consumption values (wire, gas and energy)
- Calculation of heat input by entering the seam length to the device
- Capable of measuring all welding arc types, True RMS measuring and Rectified Average Mean Value for square waves
- Calculation of arc energy (heat input) using instantaneous values in compliance with ISO 15641 and ISO/TR 18491
- Production control assistance conforms to EN 1090
- Contactless cooling time measurement T 8/5
- Scope measurement up to 20 kHz

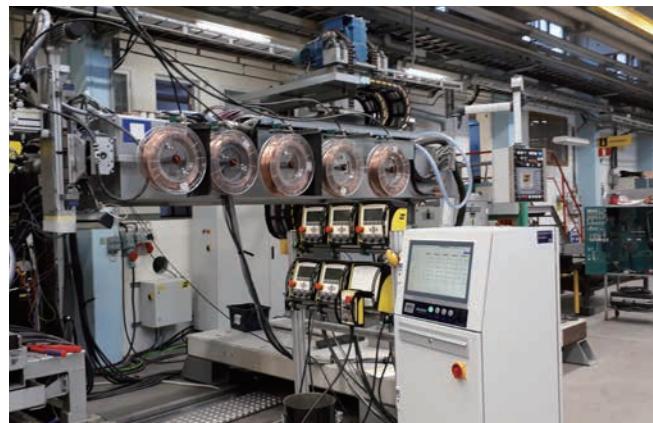
Ordering Information				
Description	Part Number	GMAW/GTAW/ SMAW	SAW	Resistance Welding
<b>WeldScanner S3 Base Device</b>	HKS0001433	X	X	X
<b>Process Sensor P350/500</b>	HKS0002381	X		
<b>Process Sensor P700/1000</b>	HKS0002382	X		
<b>Process Sensor P1400/2000</b>	HKS0002383		X	
<b>Process Sensor P2800/4000</b>	HKS0002384		X	X
<b>Gas Flow Sensor 30 l/min</b>	HKS0001425	X		
<b>Wire Sensor Mobile</b>	HKS0001428	X		
<b>Wire Sensor SAW 3-5 mm</b>	HKS0001816		X	
<b>Process Sensor P 100K – Resistance Welding</b>	HKS0001464			X
<b>Connecting Cable for Sensors 5 m -S3</b>	HKS0001430	X	X	
<b>Plug Adapter For Welding Voltage</b>	HKS0000322	X	X	X
<b>Add-on WeldScanner Cooling Time Measurement</b>	HKS0000908	Optional		
<b>WeldScanner Robust Case Type 2</b>	HKS0002275	Optional	Optional	Optional

# WeldQAS

Quality Assurance System



- Records welding parameters such as welding current, welding voltage, gas flow rate, wire feed speed during the welding process online without an additional accessory added on the welding torch
- The WeldQAS is based on a new technology of recording high-resolution digital data and intelligent data processing in a signal processor
- Uses patented algorithms and welding parameters to detect pores, burn-through, wire defects (MSG) and other welding irregularities
- Data are stored in databases and provide an overview for optimising and stabilising the welding production. WeldQAS is network compatible and the data are automatically stored on a central server
- The WeldQAS series consist of a compact version, a cabinet version and a panel version to which sensors can be connected to record process variables. Process variables can also be recorded using industrial fieldbus systems or power source-specific buses



## WeldQAS -Compact version

- Compact size (330 x 200 x 320 mm) stand-alone or wall mounted, 10.1 inch touchscreen display
- Mid-range CPU with passive cooling; industry flash memory with Windows embedded; LAN, USB, optional HDMI / VGA
- Connection of two HKS sensors (8 differential inputs with 25 kHz or 4 x 250 kHz, 3 counter inputs 100 kHz)
- 24 digital inputs and outputs
- Profibus / Profinet / EthernetIP available

## WeldQAS -Cabinet version

- Cabinet (600 x 1500 x 520 mm), with or without wheels, 18.5 inch touchscreen display
- High-end CPU and additional memory possible; industry flash memory for Windows IoT embedded; LAN, USB, HDMI / VGA
- Can be located up to 200m from the measuring module via HKS-Ethernet (20m per measuring module included)
- Virtually unlimited number of measuring channels
- Profibus / Profinet / EthernetIP available
- Integrated database server
- Integration of additional modules for galvanic isolation, additional relay available

## WeldQAS – Power version

- Panel PC (530 x 510 x 180 mm), wall or support arm mounted, 15.6" touchscreen display
- High-end CPU and additional memory possible; industry flash memory for Windows IoT embedded; LAN, USB, HDMI / VGA
- Can be located up to 200m from the measuring module via HKS-Ethernet (20m per measuring module included)
- Virtually unlimited number of measuring channels
- Profibus / Profinet / EthernetIP available
- Scalable up to six torches

Ordering Information			
Description	Part Number	GMAW GTAW	SAW
WeldQAS Micro	HKS0001421	X	X
WeldQAS Universal (Cabinet)	HKS0002362	X	X
WeldQAS Power	HKS0002806	X	X
WeldQAS Power (prepared for support arm mounting)	HKS0002807	X	X

## Aristo® Mig Robot Packages

High-tech welding equipment

ESAB's Aristo Mig robot package provides superior welding technology that is easy to install and use. The package can be connected to different types of robots for new installations as well as for retrofitting existing installations.

The Aristo Mig process package (with ESAB Canbus technology) offers a choice of Aristo Mig inverter-based power sources, high-speed, high-precision, robot-mounted wire feeders, various robotic interfaces, and the most powerful control pendant in industry - the Aristo Pendant U8<sub>2</sub> Plus control box.

The interface with the robot controller can be achieved with analogue/digital I/O communication or via EtherCat, DeviceNet, EtherNet IP, Profinet, Profibus or CANopen.



- Aristo packages for Hollow Wrist robots
- Aristo packages for Standard Wrist robots

## Aristo® Mig Robot Packages

For Hollow Wrist robots

Standard packages are available in different configurations for ABB, FANUC, KUKA, YASKAWA and leading robot brands.

### Example 1

**Water-Cooled Transmig DP for YASKAWA AR1440, YASKAWA AR2010**

- Transmig 500DP-Rd
- Power source to robot interconnect cable 10m
- RobFeed 304R
- Aristo RT 62 torch neck 45°
- Torch cable bundle 1.2m
- Straight 0° torch mount
- Flange adaptor
- Cable package water-cooled 5m

\* Other types of torch neck on-demand.



### Example 2

**Water-Cooled Transmig DP for KUKA K6-16HW**

- Transmig 500DP-Rd
- Power source to robot interconnect cable 10m
- RobFeed 304R
- Aristo RT 62 torch neck 45°
- Infiniturn Torch 1340mm
- Rigid torch mount
- Flange adaptor
- Cable package water-cooled 5m

\* Other types of torch neck on-demand.



### Optional:

Stand alone bobbin holder complete with 4.5m Marathon

Pac hose



## Aristo® Mig Robot Packages

For Standard Wrist robots

Standard packages are available in different configurations for ABB, FANUC, KUKA, YASKAWA and leading robot brands.

### Example 1

Water-cooled Aristo 500iX DeviceNet package, for ABB IRB 2600

- Aristo 500ix DeviceNet
- Aristo U8<sub>2</sub> Plus control box
- U8<sub>2</sub> extension cable, 7.5m
- Aristo RoboFeed 3804W
- Aristo RT welding torch, with 22° torch neck, torch mount holding arm and adaptor
- ABB IRB 2600 mounting support
- Interconnection cable 10 m incl. corrugated pipe
- Cooler 2 water tank



### Example 2

Water-cooled Aristo edge 500R package, for ABB IRB 2600

- Aristo Edge 500R
- Integrated water tank incl. water flow sensor
- RoboFeed Edge wire feeder (incl. gas flow sensor)
- Anybus ProfiNet communication module
- Interconnection cable at power source end
- Interconnection cable at wire feeder end
- Hub box (connecting two interconnection cables)
- ABB IRB 2600 mounting kit
- Aristo RTw welding torch, with 22° torch neck, torch mount holding arm and adaptor



### Options:

Complete stand-alone spool holder, with 4.5m Marathon Pac hose



## Transmig™ Robot Packages

High-tech welding equipment

ESAB's Transmig robot package provides advanced welding technology that is easy to install and use. The package can be connected to different types of robots for new installations as well as for retrofitting existing installations.

The Transmig process package (with ESAB Canbus technology, Transmig packages for Hollow Wrist robots, Transmig packages for Standard Wrist robots) offers a choice of Transmig inverter-

based power sources, high-speed, high-precision, robot-mounted wire feeders, various robotic interfaces, and the most powerful control pendant in industry.

The interface with the robot controller can be achieved with analogue/digital I/O communication or DeviceNet, Ethernet, and Profinet.



## Transmig™ Robot Packages

For Hollow Wrist robots

Standard packages are available in different configurations for ABB, FANUC, KUKA, YASKAWA and leading robot brands.

### Example 1

Water-Cooled Transmig DP for YASKAWA AR1440, YASKAWA AR2010

- Transmig 500DP-Rd
- Power source to robot interconnect cable 10m
- RobFeed 304R
- Aristo RT 62 torch neck 45°
- Torch cable bundle 1.2m
- Straight 0° torch mount
- Flange adaptor
- Cable package water-cooled 5m

\* Other types of torch neck on-demand.



### Example 2

Water-Cooled Transmig DP for KUKA K6-16HW

- Transmig 500DP-Rd
- Power source to robot interconnect cable 10m
- RobFeed 304R
- Aristo RT 62 torch neck 45°
- Infiniturn Torch 1340mm
- Rigid torch mount
- Flange adaptor
- Cable package water-cooled 5m

\* Other types of torch neck on-demand.



### Optional:

Stand alone bobbin holder complete with 4.5m Marathon Pac hose



## Transmig™ Robot Packages

For Standard Wrist robots

Standard packages are available in different configurations for ABB, FANUC, KUKA, YASKAWA and leading robot brands.

### Example 3

#### Air-Cooled Transmig i for ABB IRB 2600

- Transmig 500i-Ra
- Extension cable 7.5m
- RobFeed 304R
- Aristo RT torch with torch neck, 22°, torch mount, and adaptor
- Assembly bracket for ABB IRB 2600
- Cable set power source - wire feeder, 'high end version' 10m, incl. clamp and Reiku hose
- Mounting bracket for the 'high end' cable set with the Reiku hose for ABB IRB 2600



### Example 4

#### Water-Cooled Transmig i for ABB IRB 2600

- Transmig 500i-Ra
- Water flowguard power source
- Extension cable 7.5m
- RobFeed 304R
- Aristo RTw torch with torch neck, 22°, torch mount, and adaptor
- Assembly bracket for ABB IRB 2600
- Cable set power source - wire feeder, 'high end version' 10m, incl. clamp and Reiku hose
- Mounting bracket for the 'high end' cable set with the Reiku hose for ABB IRB 2600



### Optional:

Stand alone bobbin holder complete with 4.5m Marathon Pac hose



## ESAB Cobot

Revolutionize Your Welding Processes

ESAB Cobot Welding Solutions - a cutting-edge system that integrates advanced process, flexible configurations, and high-tech features for unparalleled performance. It is an excellent choice for welding tasks that demand high-quality welds on diverse workpieces.

### Touch sensing

It allows the programmer to physically search the part and offset programmed weld paths to match the actual location of weld joints.

### Weaving

Unique welding technique that the arc is oscillated transversely as it progresses along the weld path, allowing filling the joint by moving the arc.

### Arc tracking

The arc tracking technology can independently correct the welding path in real time to adapt to the change of the weld position, so that it can accurately guide the torch to weld along the weld path during the welding process of various types of welds.

### Multi-pass and multi-layer

The actual path of the first arc tracking welding is saved to ensure subsequent weld passes do not require further touch-up. Additionally, the system supports offset and rotation adjustments for the torch posture. It also allows for the increase or decrease of weld length as needed. Furthermore, the system supports alternating multi-layer welding of multiple welding seams on workpieces.

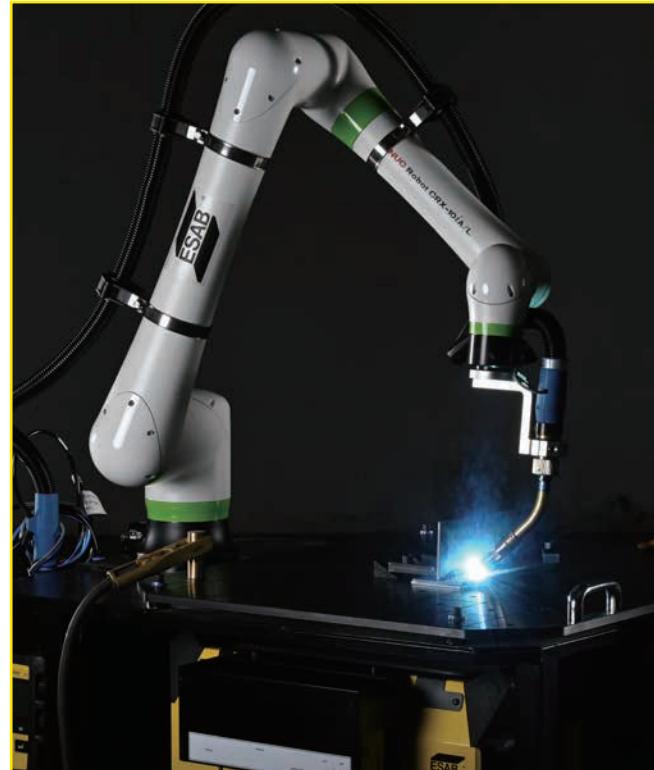


### Synergic lines

In the Aristo U82 Plus you have more than 230 synergic lines available for your welding applications. From construction steel to Super Duplex, from aluminum to Ni basic alloys, or for applications of hard metal.

### Super pulse

Giving full control over the heat input and thereby expanding the scope of application of the GMAW process resulting in better gap bridging, distortion deduction, and a better balance between the weld penetration and its profile.



### QSet™ intelligent welding system

The best single-parameter automatic arc system on the market for the perfect short arc. The advantages are enormous!

### SAT™

Optimized for mechanized and robotic/cobotic welding, ESAB's Swift Arc Transfer, or SAT™ is a high-speed GMAW welding process, and an example of a solution developed through our VAE approach.

### WeldCloud™

WeldCloud is a cloud-based welding management system that helps to streamline welding processes and improve productivity. With WeldCloud, welders can track welding parameters, monitor weld quality, and manage welder certifications, all from a single platform.



# ESAB Cobot

Cobot Package Order Information			
Aristo 500ix, CCC	0447996500	Transmig 400DP power source	ICFC960256
Aristo 500ix, CE,	0447997080	Transmig 500DP power source	ICFC960201
Aristo 500ix, CE,	0447996618	Transmig 400P power source	ICFC960251
Aristo 500IX DeviceNet	0447996581	Transmig 500P power source	ICFC960200
Aristo 500IX EtherNet/IP	0447996582	Transmig 400H power source	ICFC960208
Aristo 500IX PROFINET-IO	0447996583	Transmig 500H power source	ICFC960209
Warrior Edge 500 CX, 380 V, CCC	0448500887	Transmig CM EtherNet/IP	ICFC960217
Warrior Edge 500 DX, 380-460 V, CCC	0446300895	Transmig CM ProfiNet	ICFC960218

Wire Feeder			
Aristo RoboFeed 3804W ELP 12p	0461000892	RoboFeed Edge TrueArcPin (TAP) CE/CSA	0445900880
Transmig RobFeed 304R	ICFC960213	RoboFeed Edge EURO CE/CSA	0445900881

Options & Accessories			
RM72G-22°, 420A-500A 60%	663P001026	RM2 cable assemblies, 2.8m	673P4R0C28
RM72G-45°, 420A-500A 60%	663P001028	PP2R push-pull system	580P001000
RM72G-45°-400, 420A-500A 60%	663P001030	PP2R cable assemblies, 2.8m	580P4R1C28
RM72W-22°, 420A-450A 100%	673P001051	RM82W HD-22°, 600A-650A, 100%	673PH01021
RM72W-45°, 420A-450A 100%	673P001053	RM82W HD-45°, 600A-650A, 100%	673PH01023
Gas-Cooled cable assemblies, 2.8m	663P3R0280	RM2 HD cable assemblies, 2.8m	673PHR0W28

Robotic Arm				
Arm	Type	Reach (mm)	Payload (kg)	Power Input
UR	UR10e	1300	12.5	100-240VAC, 47-440Hz
FANUC	CRX-10iA/L	1418	10	100-120VAC, 50/60Hz, 200-240VAC, 50/60Hz
YASKAWA	HC10DTP	1200	10	200-230VAC, 50/60Hz, 3Phase 380-480VAC, 50/60Hz
ABB	CRB15000	950	5	24V/2A DC
AUBO	i10	1350	10	100-240VAC, 50/60Hz
DOBOT	CR10	1300	10	100-240VAC, 50/60Hz



## NXG Robotic FSW Solution



- Flexible, compact, and robust, capable for 2D and 3D structures
- Communication and mechanical interfaces are available to connect with robots
- Welding capacity: 6xxx aluminum alloy, up to 10mm
- Built-in water-cooling and force control
- Conventional FSW, Stationary Shoulder FSW and Bobbin FSW

## NXG Robotic FSW Specifications

<b>Max. Welding Speed</b>	3000 mm/min
<b>Max. RPM</b>	4000 rpm
<b>Insertion Speed</b>	0.1 - 1 mm/sec
<b>Max. Down Force</b>	15 kN
<b>Max. Lateral Force</b>	4.5 kN
<b>Spindle Power</b>	23 kW
<b>FSW Welding Head Interface</b>	Weldon 25
<b>Head Weight</b>	60 kg
<b>Robotic Load</b>	500 kg or以上
<b>Max. Operation Range</b>	3487 mm (ABB IRB 8700) 2826 mm (KUKA KR500 MT) 2704 mm (HYUNDAI HX600) 2550 mm (ABB IRB 7600) 2540 mm (KAWASAKI MX700N)
<b>Max. Welding Thickness</b>	1-10 mm (6xxx aluminum alloy)
<b>Repositioning Accuracy</b>	± 0.08 mm
<b>Max. Torque</b>	50 NM
<b>Cooling of Spindle</b>	Water-cooled
<b>Number of Axis</b>	6
<b>Control Mode</b>	Force control & position control

NXG Robotic FSW welding head can be integrated with different robots

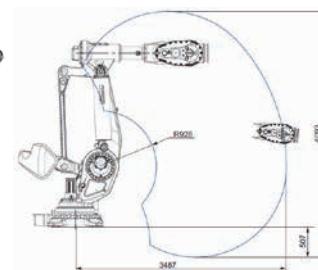
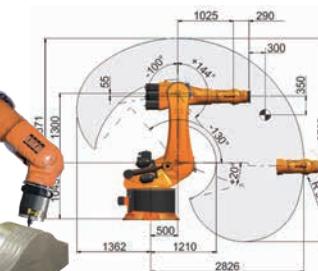
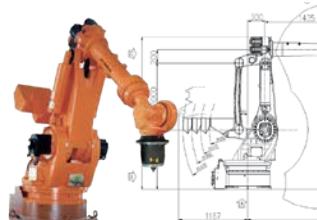


ABB IRB 8700



KUKA KR500 MT



HYUNDAI HX600

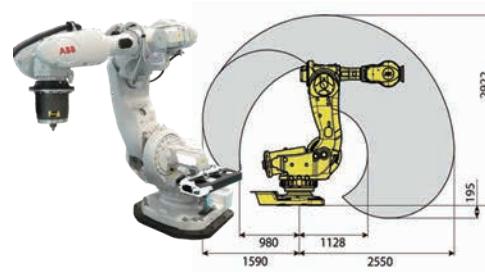
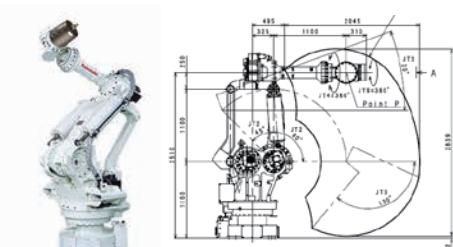


ABB IRB 7600

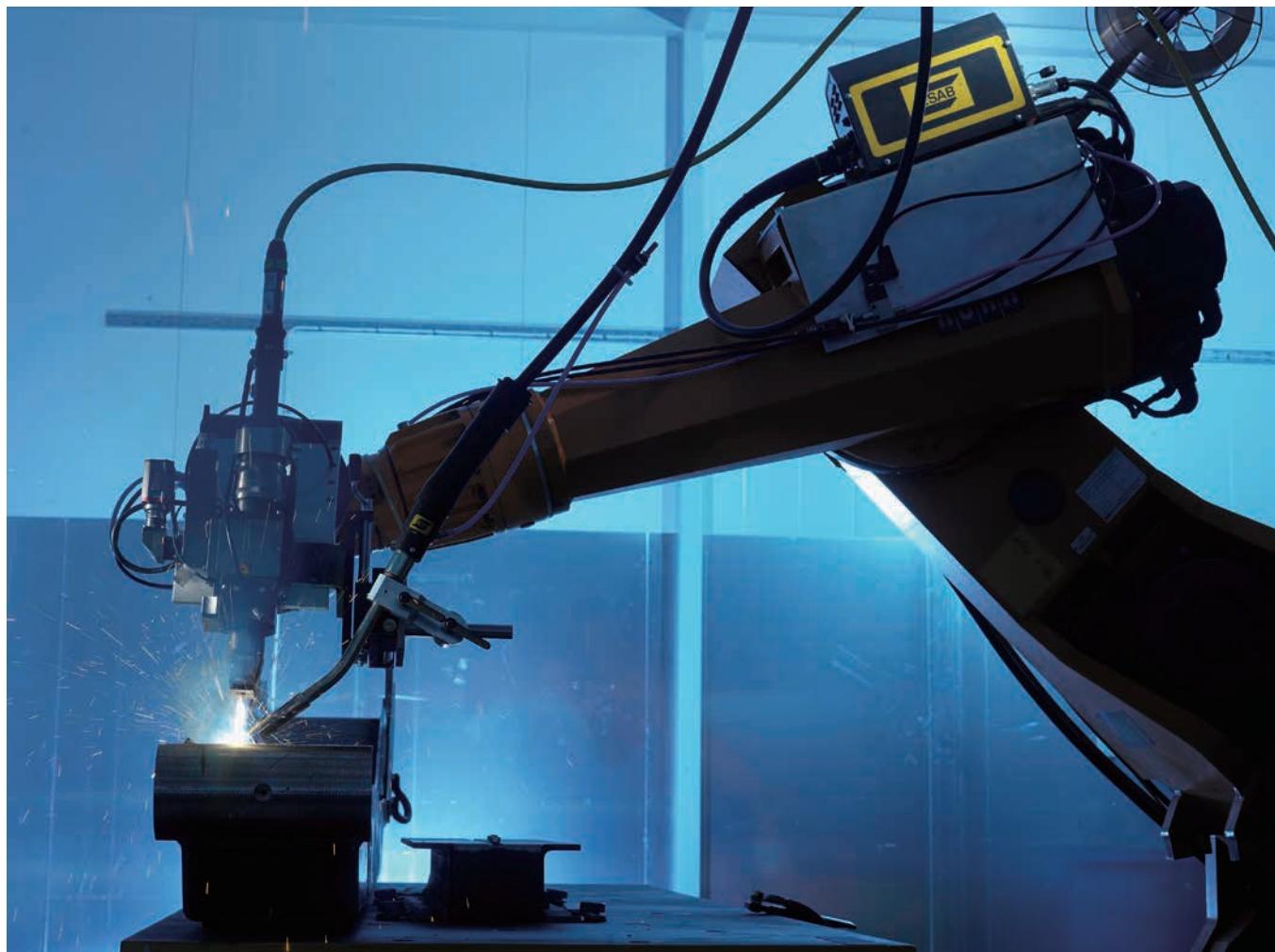
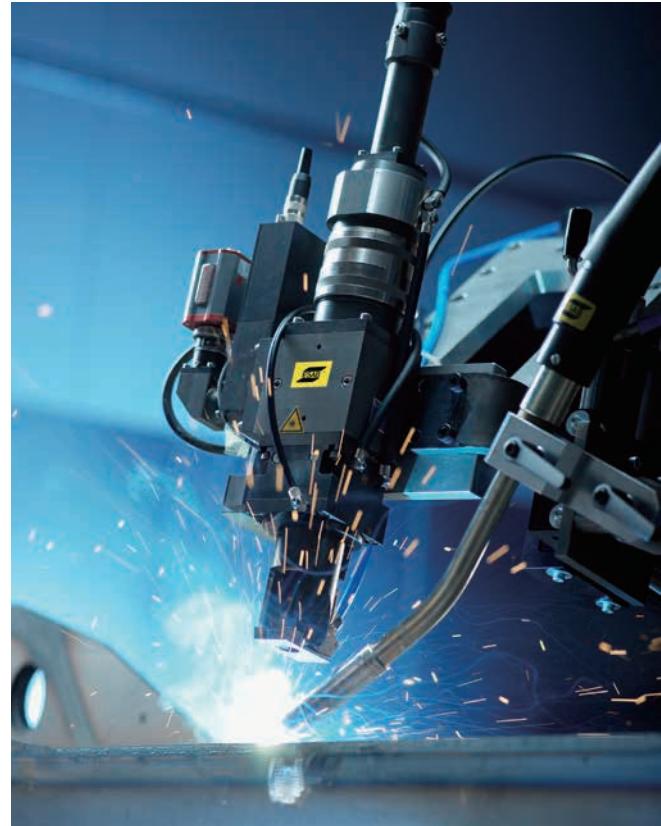


KAWASAKI MX700N

## Robotic Laser Welding Solution

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



## InduSuite Software Assembly

Unlock your shop's true potential

A complete suite of digital services, InduSuite gives you the power to revolutionize your entire fabrication workflow with data. It's a collection of welding and cutting software applications that connects data, machinery, and processes to optimize performance and unlock your shop's true potential. And gives you simplicity, insight, and control right at your fingertips.



InduSuite



Simplicity // Insight // Control



## COLUMBUS.

Program your cutting machines with this best-in-class CAD/CAM software featuring beveling, automatic nesting, cut optimization, and seamless integration with your ERP system.



## CutCloud.

Analyze and improve your cutting operations from anywhere with real-time data. Manage cutting jobs, track quality, and analyze your productivity.



## WeldCloud Productivity.

Start analyzing and improving your welding productivity, tracking consumption, and tracing all your welding down to each weld session.



## WeldCloud Notes.

Gain superior control over your welding documentation such as PQRs, WPSs, and WPQs with welding management software that saves you time.



## WeldCloud Fleet.

Manage your entire fleet from any location with cloud-based job control, service logs, and performance insight.



## OCTOPUZ.

Reduce your industrial robot's production downtime and maximize its ROI by programming its next job in a virtual, offline environment.

## Aristo® RT Robotic Torches

Standard and Hollow Wrist robots in single arc and tandem applications

The new range of Aristo RT robotic torches offer world class performance in single arc or tandem applications.

- These torches are designed for common robotic welding applications and are available for the following robotic packages:
  - Standard Wrist (external cable)
  - Helix - Hollow Wrist (+/- 220°)
  - Infiniturn - Hollow Wrist (endless rotation)
- Three gas-cooled models and three water-cooled models are available in different swan neck angles
- Packages are available for ABB, FANUC, KUKA, and Yaskawa robotic systems
- Collision-resistant torch design means no re-adjustment of the torch neck reducing downtime and improves productivity
- Constant TCP even when changing necks or cables, reduces part programming and program "touch up" time

### Special Features

- Built in blow out port can be used for cooling and/or cleaning of the torch neck
- Long-life consumables, torch body, and spare parts
- Designed for all robot types and models
- Quick-change torch system
- Simple cable replacement
- Air and water-cooled torches use the same spare parts
- Threaded gas nozzles with additional clamping for better heat transfer prolongs consumable life
- Optimized gas flow provides stable and reliable welding arc

### Torch Design

- Large, strong brass outer tube assures TCP stability due to its high wall thickness
- Low spatter adhesion to brass due to its physical character
- Brass torch flange
- Highest precision guarantees stability
- Precise alignment of torch, cable assembly interface and torch mount assure precise and constant TCP



### Industry Best TCP (Tool Center Point)



Torch mount with safety off



KS-1 (collision sensor)



FLC Hollow Wrist torch mount rigid version



Adaptor flange

**Aristo® RT Robotic Torches**

## Ordering information

Ordering Information - Torch Necks (Interchangeable between all robot types)				
Aristo RT Torch	Gas-Cooled		Water-Cooled	
	RT 42G	RT 62G	RT 42W	RT 62W
Neck 0°	0700300441	0700300452	0700300474	0700300485
Neck 22°	0700300442	0700300453	0700300475	0700300486
Neck 36°	0700300443	0700300454	0700300476	0700300487
Neck 45°	0700300444	0700300455	0700300477	0700300488
Neck 45°long version	0700300445	0700300456	0700300478	0700300489

For further information, please contact your ESAB Robotic Specialist.

Ordering Information - Torch Bundle, Feeder to Neck (Standard Wrist)				
Aristo RT Torch	Gas-Cooled		Water-Cooled	
	RT 42G	RT 62G	RT 42W	RT 62W
Technical Data: mixed gas	350 A 60% DC Gas-Cooled 0° 22° 36° 45°	420 A 60% DC Gas-Cooled 0° 22° 36° 45°	350 A 100% DC Water-Cooled 0° 22° 36° 45°	450 A 100% DC Water-Cooled 0° 22° 36° 45°
Cable, Euro connector, 1.0m	0700300458	0700300458	0700300491	0700300491
Cable, Euro connector, 1.2m	0700300459	0700300459	0700300492	0700300492
Cable, Euro connector, 1.3m	-	-	0700300493	0700300493
Cable, Euro connector, 1.4m	0700300460	0700300460	-	-
Cable, Euro connector, 1.5m	0700300461	0700300461	0700300494	0700300494
Cable, Euro connector, 1.8m	0700300462	0700300462	-	-
Cable, Euro connector, 3.0m	-	-	0700300495	0700300495

For further information, please contact your ESAB Robotic Specialist.

Ordering Information - Torch Mounts				
Aristo RT Torch	Gas-Cooled		Water-Cooled	
	RT 42G	RT 62G	RT 42W	RT 62W
Torch mount for 22° neck (standard)	0700300422	0700300422	0700300422	0700300422
Torch mount for 36° neck (standard)	0700300424	0700300424	0700300424	0700300424
Torch mount for 45° neck (standard)	0700300423	0700300423	0700300423	0700300423
KS-1 (collision sensor)	0700300434	0700300434	0700300434	0700300434
Options: FL-1 (rigid mount for electronic collision detection b the robot)	0700300435		0700300435	

For further information, please contact your ESAB Robotic Specialist.



RT tip holders



RT gas diffuser and spatter protection



Torch mount

## Aristo® RT Robotic Torches

### Ordering information

Ordering Information - Helix / Infiniturn (Hollow Wrist)						
Robot Model	ABB IRB 15201D/1600ID	ABB IRB 2600ID	FANUC Arc Mate 100iC	FANUC Arc Mate 120iC	Motoman MA 1400	Motoman MA1900
<b>Torch mount with safety off</b>						
<b>RT KSC G (air-cooled)</b>	0700300430	0700300430	0700300430	0700300430	0700300430	0700300430
<b>RT KSC W (water-cooled)</b>	0700300431	0700300431	0700300431	0700300431	0700300431	0700300431
<b>Torch mount, rigid version</b>						
<b>RT FLC G (air-cooled)</b>	0700300432	0700300432	0700300432	0700300432	0700300432	0700300432
<b>RT FLC W (water-cooled)</b>	0700300433	0700300433	0700300433	0700300433	0700300433	0700300433
<b>Adapter flange for robot</b>	0700300509	0700300521	0700300497	0700300497	0700300429	0700300429
<b>Infiniturn cable, air-cooled</b>	0700300437	0700300511	0700300436	0700300437	0700300510	0700300512
<b>Infiniturn cable, water-cooled</b>	0700300465	0700300514	0700300464	0700300465	0700300513	0700300515
<b>Helix cable, air/water-cooled</b>	0700300467	0700300517	0700300466	0700300467	0700300516	0700300518

For further information, please contact your ESAB Robotic Specialist.

Ordering Information - Tandem Torch				
Aristo RT Tandem Torches	RT 42G	RT 62G	RT 42W	RT 62W
<b>Technical Data: mixed gas 2x 550 A 100% DC water-cooled</b>	Straight neck Wire distance at TCP 0.3 in (8 mm) (Std.)	Neck 22° bent Wire distance at TCP 0.3 in (8 mm) (Std.)	Straight neck Wire distance at TCP 0.4 in (10 mm)	Neck 22° bent Wire distance at TCP 0.4 in (10 mm)
<b>Torch, Euro connector, 1m cable</b>	-	-	0700300312	-
<b>Torch, Euro connector, 1.2m cable</b>	0700300317	-	0700300313	-
<b>Torch, Euro connector, 1.5m cable</b>	-	0700300318	-	0700300314
<b>Torch, Euro connector, 3m cable</b>	-	-	-	0700300315
<b>Torch, Euro connector, 3.5m cable</b>	-	-	-	0700300316
<b>Torch mount 22° for RT 20F/22F</b>	0700300426	0700300426	0700300426	0700300426
<b>Adaptor flange for robot (if required)</b>	depends on robot			
<b>KS-1 (collision sensor)</b>	0700300434	0700300434	0700300434	0700300434
<b>Options: FL-1 (rigid mount for electronic collision detection b the robot)</b>	0700300435	0700300435	0700300435	0700300435

For further information, please contact your ESAB Robotic Specialist.



Robot torch external cable



KUKA Hollow Wrist

## TBi® (AN ESAB BRAND) RT NG

Robotic torch & assemblies

The TBi RM2 product line provides a convincingly robust design, high welding performance, reliability and cost-effective operation. The completely modular system allows for perfect adaptation to different welding tasks. A unique TBi advantage for the end user is the collision-resistant TCP, completely eliminating the need for torch re-adjustments.



### TBi RM 42G, RM 42W

Especially slim and compact welding torch for best accessibility to the work piece



### TBi RM 52G, RM 52W

Especially slim and compact welding torch for best accessibility to the work piece.



### TBi RM 62G, RM 62W

Powerful welding torch for demanding industrial use



### TBi RM 72G, RM 72W

Powerful welding torch with extended lifetime for demanding industrial use



### TBi RM 82W

Powerful welding torch with additional water cooling of the nozzle seat



### RM 42 G NG / 42 W NG / 82W NG

These special robot torches provide access to very hard to reach areas and can be used for narrow gap welding.



## TBi® (AN ESAB BRAND) RT NG

Robotic torch & assemblies

### TBi RoboMIG cable assemblies

The TBi RoboMIG cable assemblies have been optimized for the specific requirements of robotic use. The integrated TBI RM2 interface guarantees a mechanically robust connection of the torches. High-quality hoses, separate hose for the blow-out air and integrated check valves assure a long life and best welding properties.



### TBi KS-2 safety-off mechanism

The TBI safety-off mechanism has been developed to reliably protect the robot and the torch system in case of a collision. It is outstanding in regard to its large elastic deflection combined with very good repeatability. We generally recommend using this device.



### Torch mounts

#### Torch mount with safety-off function

- Reliable shut-off function in case of a collision
- Very high repeatability
- Automatic water shut-off valves
- Very simple installation, takes only a few minutes
- Optional with integrated wire brake
- Integrated connection for nozzle sense function



#### Torch mount without safety-off function

- Rigid connection between torch and robot, only for robots with electronic collision detection
- Automatic water shut-off valves
- Very simple installation, takes only a few minutes
- Optional with integrated wire brake
- Integrated connection for nozzle sense function



### Adapter flange

- Interface between the torch mount and the robot
- Electrical insulation between the torch mount and robot

*The adapter must always be ordered in addition to the torch mount.*



## Swift Arc Transfer™

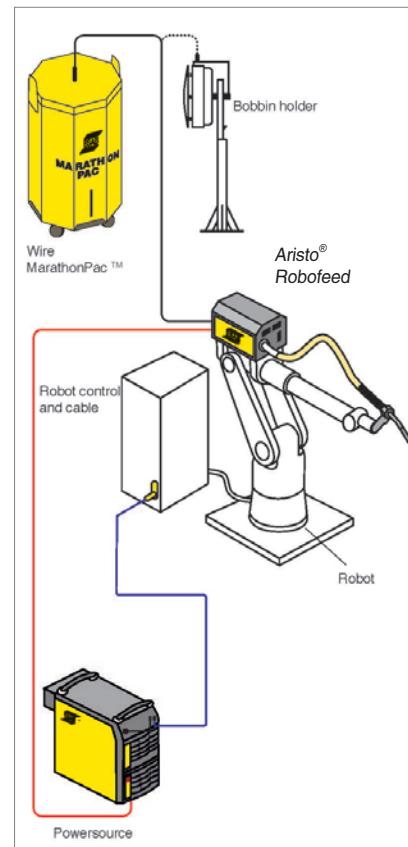
High-speed robotic MIG welding

- Swift Arc Transfer (SAT) is a high productivity MIG process using OK AristoRod non-copper-coated wires with Advanced Surface Characteristics (ASC) at travel speeds well beyond the limits of normal Spray Arc welding
- The advantage OK AristoRod non-copper-coated wires over copper-coated wires is that it does not quickly contaminate the feed system with copper particles
- Synergic lines are available for three OK AristoRod wire sizes and various shielding gases
- SAT produces flat welds with good penetration and no undercut
- An additional advantage is the low heat input, resulting in less deformation
- SAT is developed for robotic and automated welding and suited for fillet and overlap welds in thin to thick plate in downhand positions
- SAT uses ESAB inverter power sources together with the Aristo Robofeed 3804W wire feeder for wire feed speeds up to 1181 ipm (30 m/min) in conjunction with the Aristo Pendant U8<sub>2</sub> Plus control unit
- ESAB provides a complete package of equipment, consumables and synergic lines as well as the expertise to successfully implement the Swift Arc Transfer process



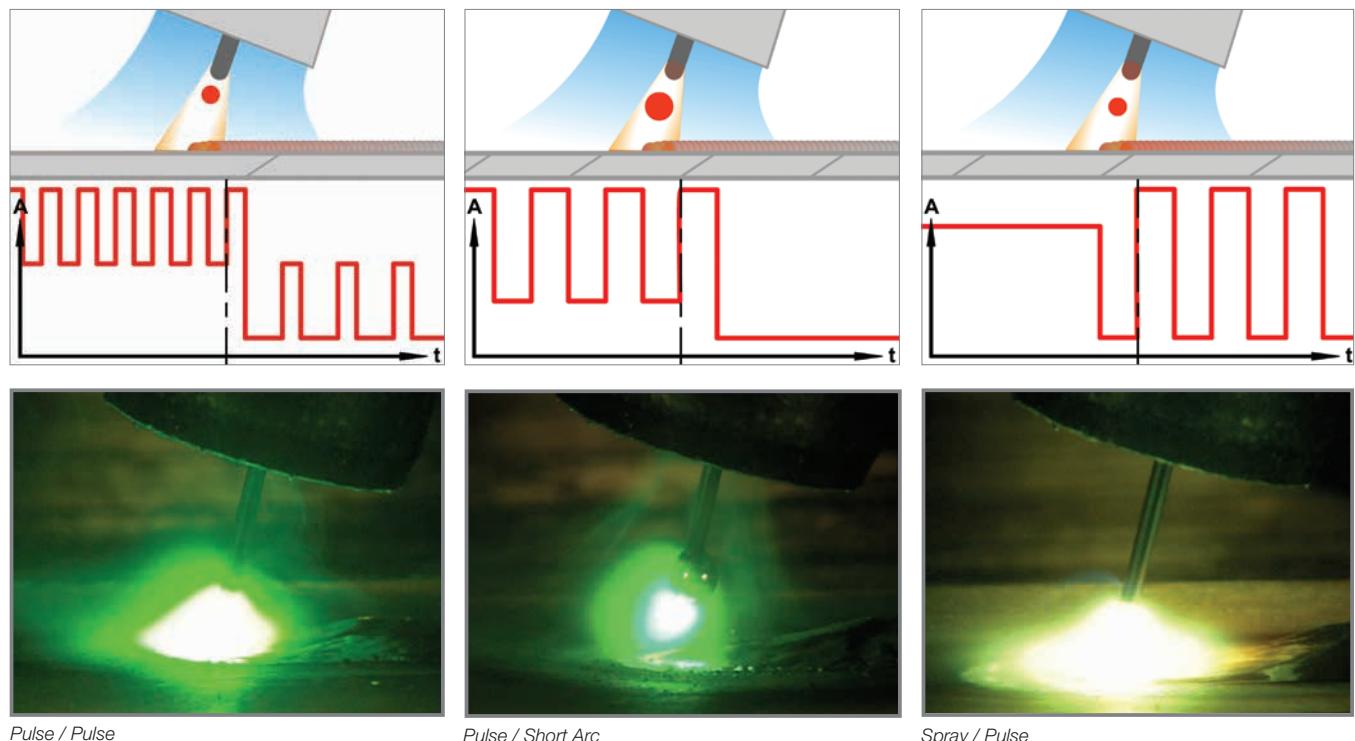
## Ultimate Welding Technology for Robots

- ESAB's Aristo U8<sub>2</sub> robot package is a complete set of welding equipment and consumables, based on ESAB's latest digital power source technology
- The package consists of:
  - Aristo Mig U5000iw inverter or Aristo 500iX chopper power source
  - Aristo Pendant U8<sub>2</sub> Plus control unit with SAT synergic lines or the Aristo W8<sub>2</sub> interface for different robot brands
  - Aristo RoboFeed 3804W encapsulated wire feeder with up to 1181 ipm (30 m/min) wire feed speed
  - Cable packages
  - Marathon Pac bulk wire drum with robot quality welding wire and optional bobbin holder
- The robot package can be installed to enable SAT welding on newly built robots, but also for retrofit of existing installations



## Aristo® SuperPulse™

Innovative process for heat input control



Aristo SuperPulse is a further development of the Pulse/Pulse concept, giving full control over the heat input and thereby expanding the scope of application of the MIG process. In addition to Pulse/Pulse, the following arc mode combinations and applications are possible:

- Pulse/Short Arc enables the welding of very thin sheet metal
- Productive welding of root passes replacing the TIG process
- Spray Arc/Pulse - very efficient arc mode for positional welding of thick materials
- Aluminum can be welded straight upwards, without weaving
- MIG brazing of very thin sheet material

### Aristo SuperPulse Benefits:

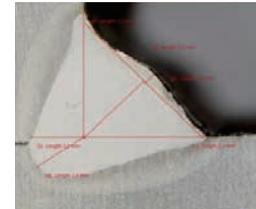
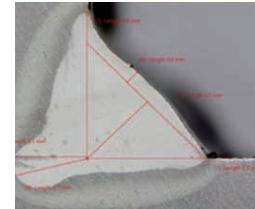
- Easier positional welding
- Uniform penetration
- Less sensitive for root gap variations
- Less sensitive for unequal heat transfer
- TIG weld appearance with the MIG process
- Suitable for automated welding, e.g. with Railtrac and Miggyltrac automated welding tractors
- Extends the working range for larger wire sizes
- With its precisely adjustable heat input and depth of penetration, Aristo Superpulse can solve difficult welding tasks and increase productivity



## Aristo Edge SPEED Welding

Large penetration process for thick plates

The SPEED WeldMode is a pulse-controlled spray arc transfer process with focused arc for faster travel speed and better penetration.

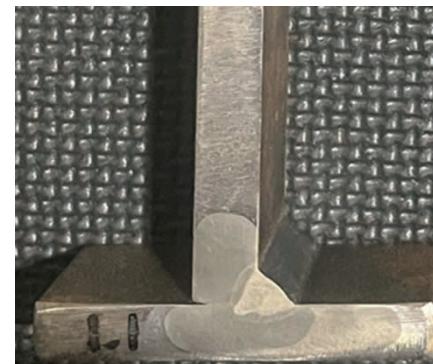


### Advantages of SPEED Process

- SPEED VS Spray Arc, different penetrations for the same parameter
- Focused arc brings more concentrated heat input
- More stable arc for less spatter
- Faster travel speed, up to 20% faster than spray arc transfer
- Better penetration for the welding of narrower bevels
- Significantly improve the productivity and reduce the cost by 5-30%

### SPEED Application

- Base metal: S355J2
- Plate thickness: 8 mm
- Bevel: unbeveled, no clearance
- Welding wire: 1.0 mm
- Shielding gas: Ar+18% CO<sub>2</sub>
- Wire feed speed: 18.0 m/min
- Travel speed: 1300 mm/min
- Throat depth: a3



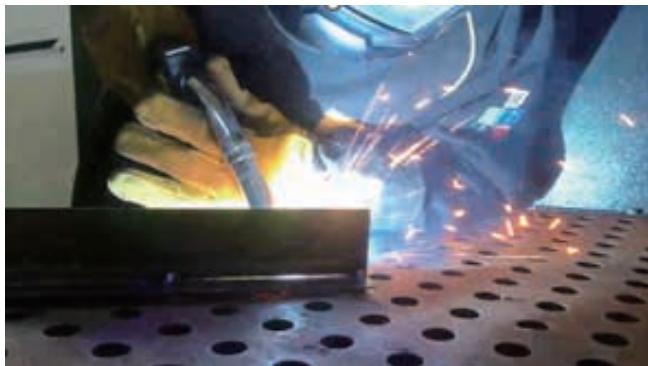
- Base metal: Q355
- Plate thickness: 40 mm
- Bevel: 45° bevel on both sides, blunt edge 6 mm
- Welding wire: 1.2 mm
- Shielding gas: Ar+18% CO<sub>2</sub>
- Wire feed speed: 12-14 m/min
- Travel speed: 600 mm/min



## Aristo Edge THIN Welding

Low spatter and low heat input process for thin plates

The THIN WeldMode is a low spatter and low heat input process developed based on short arc transfer for welding thin plates from 0.8 to 3 mm.



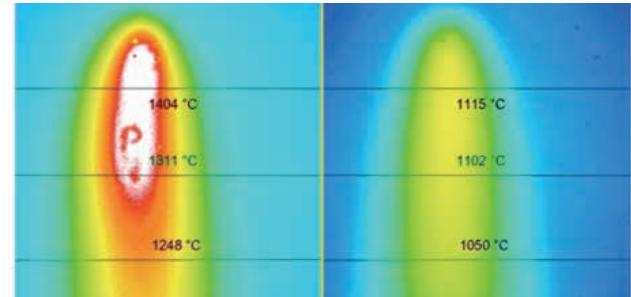
Short Arc Mode



THIN Mode

### Advantages of THIN Process

- Reduce the welding spatter by up to 85%
- Reduce the heat input by approx. 21%
- Reduce the welding fume
- Significantly reduce distortion
- Very stable arc

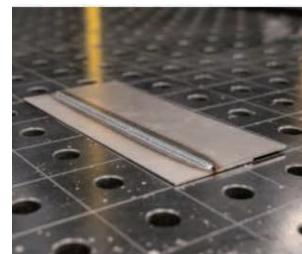


Conventional Short Arc Process

ESAB THIN Process

### THIN Application

- Base metal: Carbon steel, 1 mm thick
- Shielding gas: Ar+18% CO<sub>2</sub>
- Welding wire: 1.0 mm
- Joints: overlap, T-type & external corner
- Wire feed speed: 2.5-4 m/min
- Travel speed: 600-800 mm/min



**TBi BRG-2 Torch Cleaning Station**

Automatic torch cleaning stations for robot torches

The automatic torch cleaning station BRG-2 is solely designed to clean robot and automated welding torches in connection with automated welding systems, such as welding robots. The BRG-2 is controlled by the robot control. Status signals are provided by the station. Spatter are removed by a rotating reamer. The anti-spatter fluid is applied to the torch head in a controlled way. The robot cell will not be contaminated and less anti-spatter fluid is used.

- Automated cleaning process, no manual cleaning by the operator
- Short cleaning time and resulting high system availability
- Prevents pollution-related quality deviations of the weld

NXG Robotic FSW Specifications	
<b>Function</b>	pneumatic
<b>Air supply</b>	oil-free compressed air, 6 bar
<b>Control signal</b>	24V DC
<b>Cleaning cycle</b>	approx. 4 - 5sec.
<b>Anti-spatter fluid dosage</b>	adjustable
<b>Anti-spatter fluid container</b>	500 ml
<b>Wire cutting performance</b>	max. 1.6mm steel wire
<b>Weight</b>	approx. 14 kg (without pedestal)
<b>Operating Temperature</b>	-10 ~ +40°C
<b>Maximum Cobot Arm Reach</b>	1300 mm
<b>Dimensions L x W x H, incl. Arm in full upright position</b>	1219 x 1042 x 2951 mm
<b>Weight</b>	377 kg

Ordering Information	
TBi BRG-2 cleaning station VD	531P101M44
TBi BRG-2 cleaning station ES	531P101M46



## OK AristoRod™ & Marathon Pac™

An unbeatable combination

### Marathon Pac – Octagonal Bulk Wire Drums

For many ESAB customers, Marathon Pac is key in maximizing production efficiency and quality. In fact, it can cut down time on spool changes and maintenance by almost 95%. Bulk supply Marathon Pacs are available packed with either 551 or 1050 lbs (250 or 475 kg) of OK AristoRod non-copper-coated welding wire.

An 'Endless' version combines the contents of a series of Marathon Pacs to form a continuous in-line supply source. As each drum empties, the subsequent drum takes over and a new drum is added to the line to form an uninterrupted supply of welding wire. ESAB supplies a full range of accessories for efficient handling and installation of Marathon Pacs.

Empty Marathon Pacs can be folded flat to save space and can be disposed of environmentally-friendly.



### New ASC wire surface technology

OK AristoRod non-copper-coated welding wires with Advanced Surface Characteristics (ASC) resist corrosion during storage, improve feedability and arc stability and also reduce contact tip wear to a level equal to the very best copper-coated wires.

OK AristoRod with ASC has a number of unique features with advantages for manual, automated, and robotic welding. These translate into clear benefits which, together, add up to increased productivity and lower welding costs.



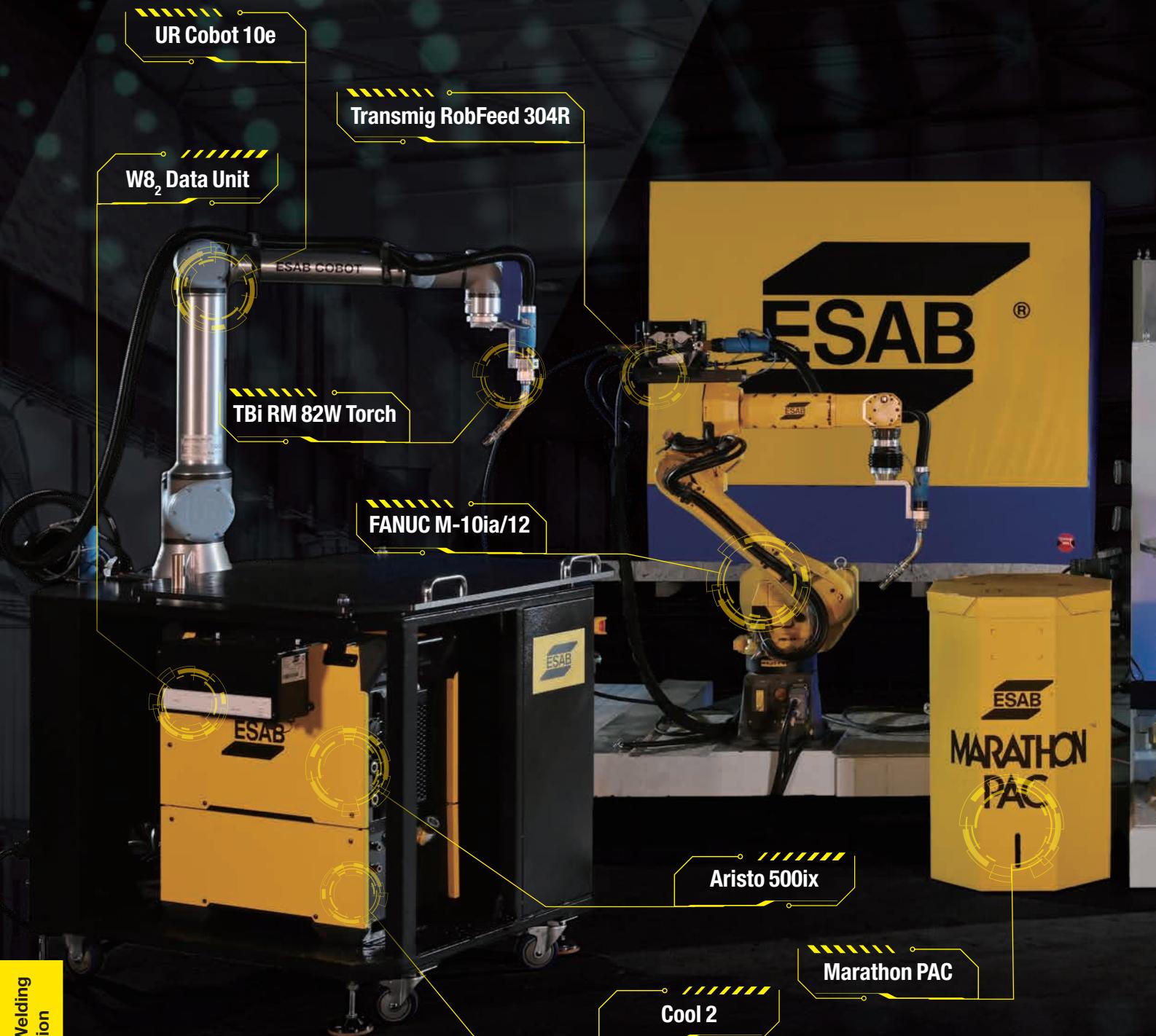
Feature	Benefit
Consistent welding performance	Consistent weld results
Stable arc with low feeding force	High weld quality. Reduced rework or post weld cleaning
Excellent arc ignition	Reduced post weld cleaning
High current operability	Higher productivity
Extremely low spatter level	Reduced post weld cleaning
Trouble-free feedability, even at high wire feed speeds and long feed distances	Higher productivity, reduced equipment downtime
Low fume emission	Cleaner working environment



For more information, please see the Marathon Pac brochure (SWR-10055).

# ESAB ROBOTIC WELDING

## FOR VARIOUS PROCESS, APPLICATIONS



# WELDING SOLUTIONS

## APPLICATIONS AND SEGMENTS.



# UNRIValed SERVICE AND SUPPORT.

All ESAB products are backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with the maintenance and upgrading of your machines. And our products are backed with the most comprehensive warranty in the business.

With ESAB, you can be sure you purchased a product that will meet your needs today and in the future. Product and process training is also available. Ask your ESAB sales representative or distributor for a complete ESAB solution.

For more information please visit [esab.com](http://esab.com).



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