



# Aristo<sup>®</sup> robot package

STANDARD MIG ROBOTIC WELDING COMPONENTS  
FOR FIELD BUS COMMUNICATION



*ESAB has been working with robotic welding for many years.  
This is why you can rely on our process knowledge,  
application expertise and support.*

Welding has been our field of expertise ever since our founder developed the coated welding electrode more than a century ago. Over 80% of all robots used for welding, use the semi-automatic welding process, also called MIG/MAG or GMAW.

Processes used in robotic welding include:

- MIG/MAG
- MIG/MAG pulse
- MIG/MAG SuperPulse™
  - Short arc / pulse
  - Pulse / pulse
  - Pulse / Spray arc
- MIG/MAG Brazing

#### Synergic lines

In our top of the line products we include Synergic lines. These lines are developed from our process knowledge and field experience. The Aristo® U8<sub>2</sub> control pendant has an extensive synergic database. This means that you will have all alternatives without compromising quality. Aristo® U8<sub>2</sub> control pendant has more than 200 synergic lines for short/spray arc and pulsed arc. In addition the Aristo® U8<sub>2</sub> can also handle customer specific synergic lines if required. The synergic lines can be up- and downloaded using a PC.

#### Suitable for all materials

Suitable for mild steel, stainless steel, Ni based, aluminium and copper.

#### Easy to install

The Aristo® Mig power sources are connected to the enclosed feeder Aristo® RoboFeed 3004w by quick connectors. Connection to the robot controller is from the Aristo® W8<sub>2</sub> Fieldbus communication unit by a Fieldbus cable which has to be defined according to suit the specific bus.

Wire conduit in different lengths is available for efficient transport of the wire from the Marathon Pac drum to the feeder. All these efforts to minimise set up time enabling production to commence in the shortest possible time.



#### Full range of equipment

The precision Aristo® Mig power sources can weld MIG/MAG solid wire and cored wires using constant current, pulsing or super pulsing as well as MIG/MAG brazing. The Aristo® Mig power source supplies accurate and repeatable power to drive, control and monitor the welding process. ESAB's 100 years of welding process knowledge has been captured and stored in the many pre-programmed Synergic lines enabling you to achieve the optimum performance for every material, process and gas combination in your mechanised application.

#### The Aristo® W8<sub>2</sub> - Fieldbus

Aristo® W8<sub>2</sub> is a communication unit for Fieldbus (DeviceNet, Profibus and CANopen) and LAN.

#### Among the interface features are:

- 255 memories (schedules) changeable during welding.
- Direct access to the wire feed speed and voltage
- Wire touch sense
- Weld busy
- Arc acknowledge
- Multilevel error status information inching
- Reverse wire feed direction
- Shielding gas control
- Cleaning gas control
- 2 levels of safety stops

The welding manager can easily block all access to the preset weld-parameters in the Aristo® U8<sub>2</sub> by a code lock function.

#### Connecting cables

High quality cables are used to transfer the large amount of digital signals required between the robot control, the Aristo® U8<sub>2</sub> control unit and the power source. You choose the optimum length for your installation.

#### The Wire feeder

Aristo® RoboFeed 3004w with 30 mm feed rolls.

#### Hose package for connecting the power source to the feeder.

This package contains all the cables and hoses required and all are equipped with quick connectors. The water connectors lock the water in the hose, when not connected. A protective cover gathers the hoses together and protects them from wear and tear.

#### Torches

ESAB offers the PSF™ 315M torch in standard lengths 1.5, 2.2 and 3.0 m. Swan necks are available in 4 different standard versions: Straight, 25 degrees, straight extended and 25 degrees extended. PSF™ 315M complies with the TrueArcVoltage™ System

#### Full range of consumables

ESAB has wire packages for very high productivity, easy handling and high quality assurance.



#### Marathon Pac™

The Marathon Pac™ is available in the following sizes: Mini Marathon Pac™, 100 kg, Standard Marathon Pac™, 250 kg, and Jumbo Marathon Pac™, 475 kg. Standard and Jumbo exist in Endless version which enables continuous welding operations.

ESAB is always there for you when it concerns productivity-improvements. Read more in our separate leaflets.

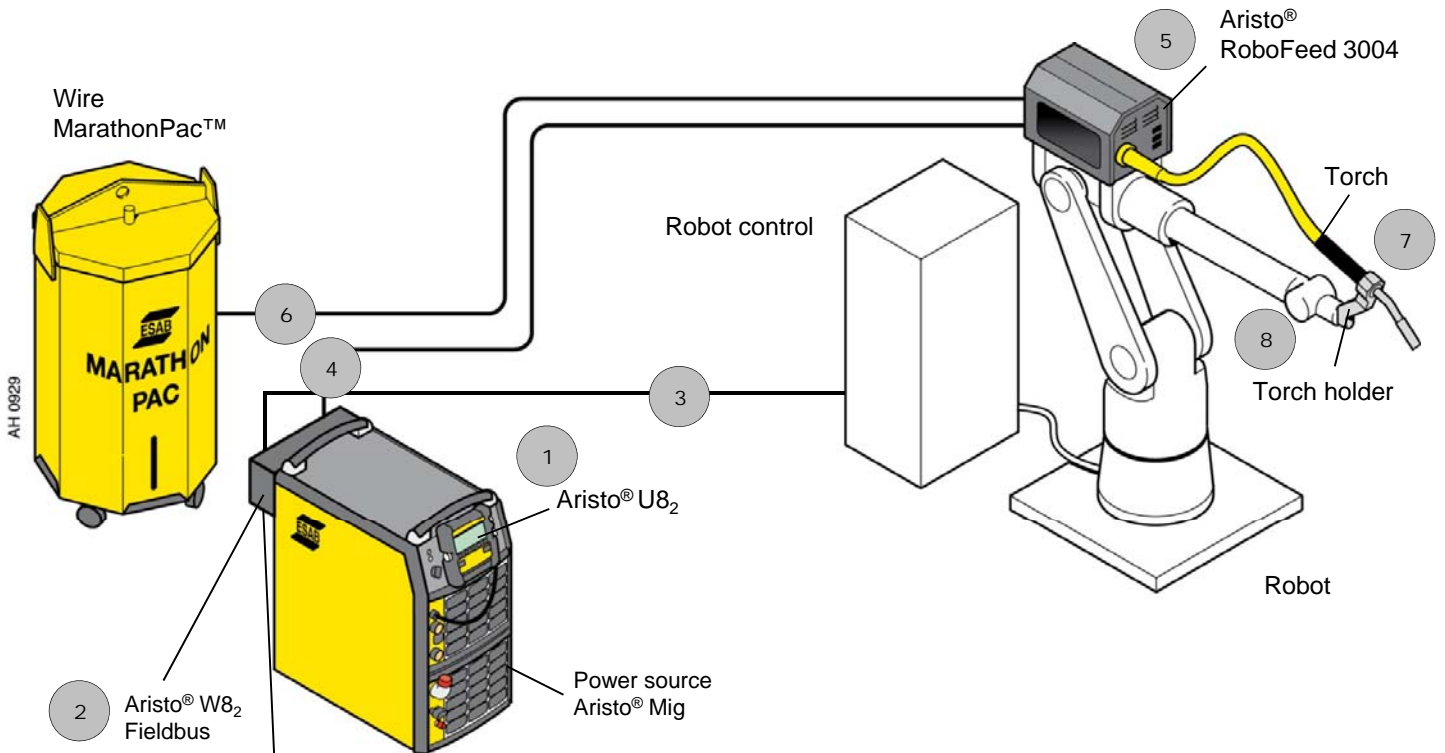
A complete Aristo® robot package consists of:

- Aristo Mig power source
- Aristo RoboFeed feeder unit
- Aristo U8<sub>2</sub> - operating pendant \*
- Aristo W8<sub>2</sub> Fieldbus and LAN \* communication unit
- Control cable and cable package - with quick connections
- Welding torch or PP torch including holder
- ESAB wire

\* For detailed information see fact sheet XA00141820

Global solutions for a global industry. ESAB have been working with mechanised products since 1935, and have become a dominant player, not just through our ability to devise excellent solutions, but also from our commitment to support those solutions world-wide at local level.

# Aristo<sup>®</sup> robot package Aristo<sup>®</sup> RoboFeed 3004w



Fieldbus PCB incl connector



CAT2 (L)



Torch bracket TCP 1  
(CAT 2 holder)



Torch bracket TCP 2  
(CAT 2 holder)



Complete torch holder  
(anti collision software)

## Ordering information

### Power sources

Aristo Mig 3001i, 400 V	0459 740 882
Aristo Mig 3001iw, 400 V	0459 740 883
Aristo Mig 5000i, 400 V	0459 230 880
Aristo Mig 5000iw, 400 V	0459 230 881
Aristo Mig 5000iw, 400 V, Incl flow guard	0459 230 896
Aristo Mig 6502c, 400 V	0349 311 370
Aristo Mig 6502cw, 400 V	0349 311 390

### Accessories for power sources

Trolley Aristo Mig 5000i	0461 043 880
Flow guard Mig 3001iw	0456 855 881
Flow guard Mig 6502cw	0349 302 251

<b>1 Aristo<sup>®</sup> U8<sub>2</sub></b>	
Aristo U8 <sub>2</sub>	0460 820 880
Aristo U8 <sub>2</sub> Plus	0460 820 881
Extention cable 7.5 m	0460 877 891

<b>2 Aristo<sup>®</sup> W8<sub>2</sub></b>	
Aristo W8 <sub>2</sub> – Fieldbus (DeviceNet)	0460 891 881
Aristo W8 <sub>2</sub> – Fieldbus (Profibus)	0460 891 882
Aristo W8 <sub>2</sub> – Fieldbus (CAN open)	0460 891 883
Interconnection cable Mig 5000i	0456 527 885
Interconnection cable Mig 3001i/6502c	0462 000 880

<b>3 Control cable, Aristo<sup>®</sup> W8<sub>2</sub> - robot</b>	
Fieldbus cable 5x screened – 10 m	0461 182 002

<b>4 Cable package, power source - feeder</b>		
	<i>Air-cooled</i>	<i>Water-cooled</i>
5.0 m	0740 538 890	0740 538 895
10.0 m	0740 538 881	0740 538 886
15.0 m	0740 538 882	0740 538 887
25.0 m		0740 538 888
35.0 m		0740 538 889

<b>5 Feeder unit</b>	
Aristo RoboFeed 3004w ELP 12p *	0461 000 891
* incl. quick connector Marathon Pac <sup>™</sup>	

<b>Assembly bracket</b>	
Assembly bracket universal	0461 173 880

<b>6 Wire conduits</b>	
Wire Conduit 1.8 M	F102 437 881
Wire Conduit 3.0 M	F102 437 882
Wire Conduit 3.8 M	F102 437 889
Wire Conduit 4.5 M	F102 437 883
Wire Conduit 6.0 M	F102 437 887
Wire Conduit 6.5 M	F102 437 890
Wire Conduit 8.0 M	F102 437 884
Wire Conduit 12.0 M	F102 437 885

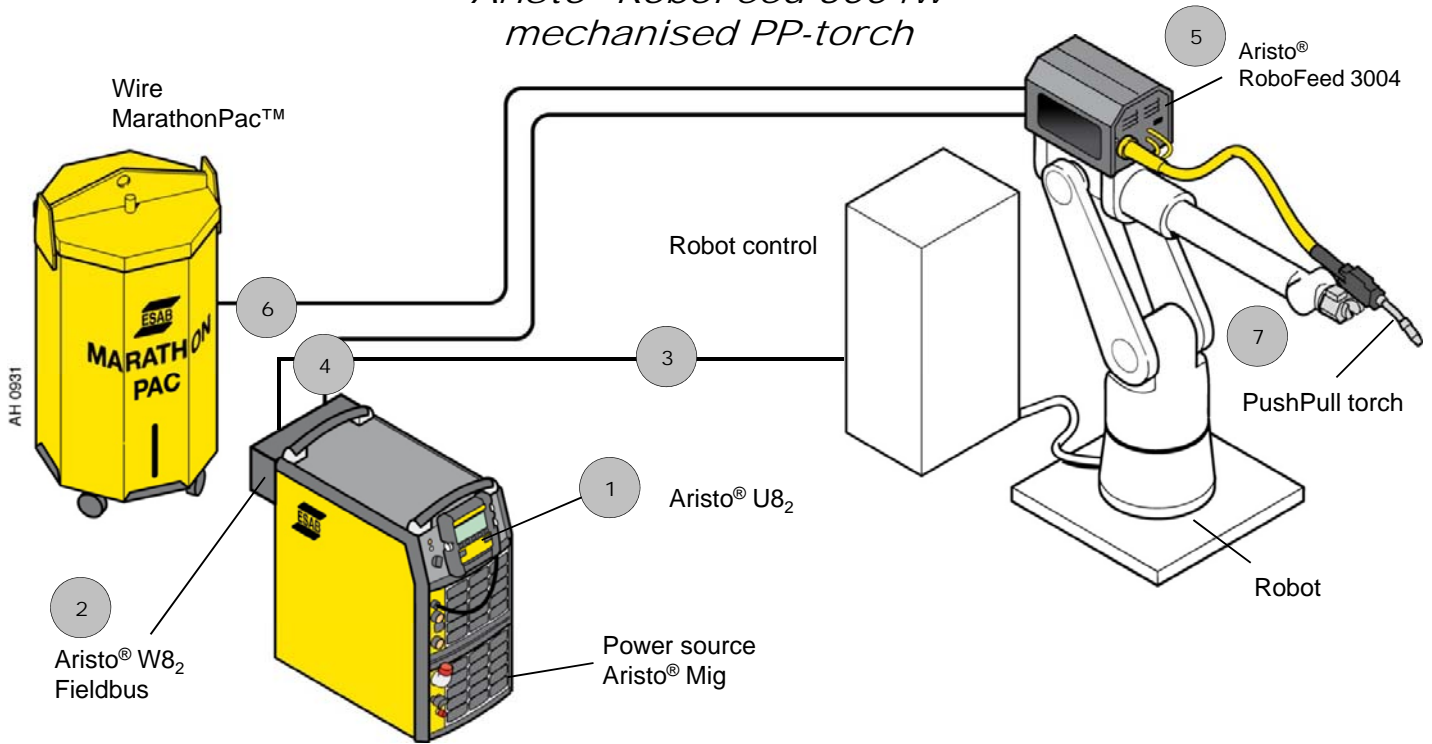
<b>7 Welding torch</b>	
PSF <sup>™</sup> 315M 1.5 m, Straight	0367 233 896
PSF <sup>™</sup> 315M 2.2 m, Straight	0367 233 901
PSF <sup>™</sup> 315M 3 m, Straight	0367 233 905
PSF <sup>™</sup> 315M 1.5 m, Standard 25 degree	0367 233 894
PSF <sup>™</sup> 315M 2.2 m, Standard 25 degree	0367 233 900
PSF <sup>™</sup> 315M 3 m, Standard 25 degree	0367 233 898

<b>8 Torch brackets and holders</b>	
AntiCollisionDevice (CAT2 – L) cpl.	0700 200 303
Torch holder TCP1 (X=350, Y=0)	0700 200 300
Torch holder TCP2 (X=329, Y= -89)	0700 200 301
Torch holder complete*	0700 200 302*
Flange CAT2, d=40 mm ISO 9409-1-A40	0700 200 304
Flange CAT2, d=50 mm ISO 9409-1-A50	0700 200 305

\* Requires collision software in the robot controller



# Aristo<sup>®</sup> robot package Aristo<sup>®</sup> RoboFeed 3004w mechanised PP-torch



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Aristo Mig 5000iw, 400 V	0459 230 881
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Aristo Mig 6502c, 400 V	0349 311 370
Aristo Mig 6502cw, 400 V	0349 311 390

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Aristo U8 <sub>2</sub>	0460 820 880
Aristo U8 <sub>2</sub> Plus	0460 820 881
Extention cable 7.5 m	0460 877 891

<b>2 Aristo<sup>®</sup> W8<sub>2</sub></b>	
Aristo W8 <sub>2</sub> – Fieldbus (DeviceNet)	0460 891 881
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**7** =See separate fact sheet

## Service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software. The service organisation will offer standardised solutions for the reconditioning or modification of existing products. Spare and wear parts are manufactured and available according to ESAB's quality plan.

ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.



**ESAB AB**  
Box 8004  
SE-402 77 GÖTEBORG SWEDEN  
Phone: +46 31 50 90 00 Fax +46 31 22 04 49  
E-mail: info@esab.se  
[www.esab.com](http://www.esab.com)

