

ARISTO EDGE 500R

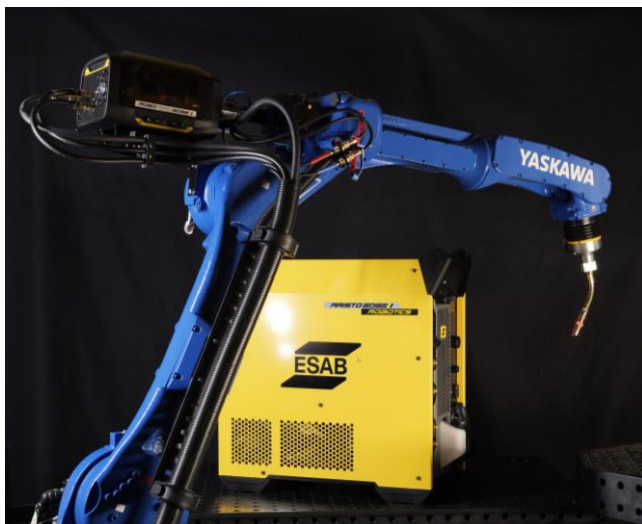
Powerful robotic power source



Aristo Edge 500R power supply

Industry

- Industrial and General Fabrication
- Mobile Equipment
- Civil Construction
- Agricultural Equipment
- Transportation



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

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



RoboFeed Edge wire feeder

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Specifications	
Mains Voltage	380 - 575V \pm 10%, 3 ph, 50/60 Hz
Welding Output GMAW (MIG/MAG)	500 A / 39.0 V at 60% Duty Cycle 400 A / 34.0 V at 100% Duty Cycle
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 (27.5 x 12.8 x 26.8 in.)
Weight	85 kg (187 lbs)
Operating Temperature	-20 to +55 °C (0 to 131 °F)
Enclosure Class	IP23
Application Class	S
Insulation Class	H
Certification Mark (Standards)	CE, CSA
Cooling Unit	
Cooling Power	1,4 kW
Coolant Volume	4.7 l (1.2 gal)
Max Flow	2.0 l/min (0.5 gal/min)
Max Pressure	4.5 bar (65 psi)

Ordering Information	
Aristo Edge 500R, CE 380-460V	0446300890
Aristo Edge 500R, CSA 460-575V	0446300891

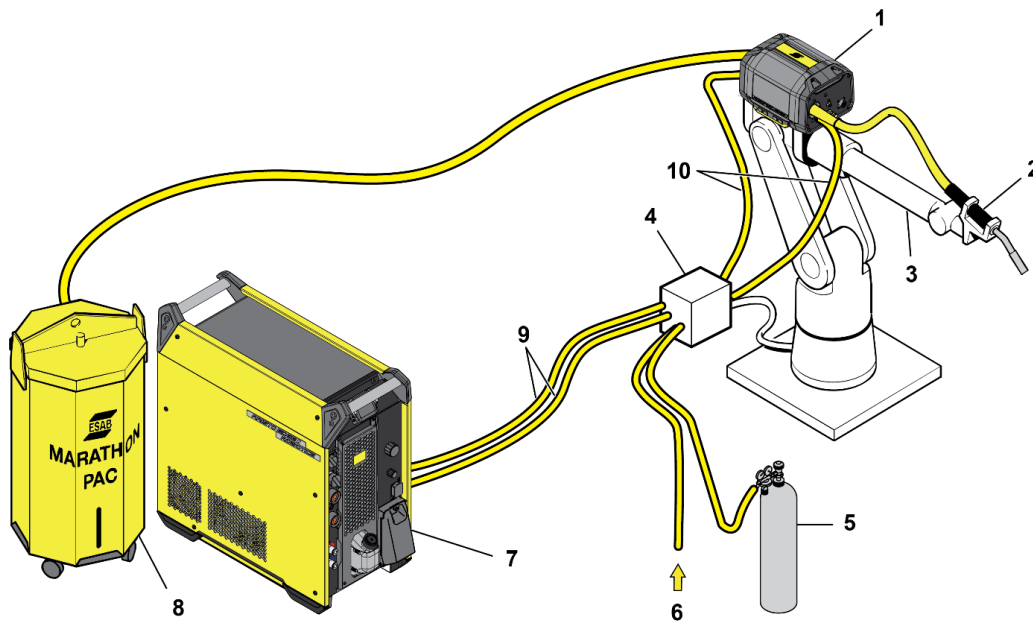
Options & Accessories	
Coolant 10l	0465720002
Wheel Kit, power source	0465416880

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

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Interconnection Cables

Description	Part Number
Interconnection cable 95mm ² 2 m (6.5 ft)	0446505880
Interconnection cable 95mm ² 5 m (16 ft)	0446505881
Interconnection cable 95mm ² 10 m (33 ft)	0446505882
Interconnection cable 95mm ² 15 m (49 ft)	0446505883
Interconnection cable 95mm ² 20 m (66 ft)	0446505884
Interconnection cable 120mm ² 2 m (6.5 ft)	0446505890
Interconnection cable 120mm ² 5 m (16 ft)	0446505891
Interconnection cable 120mm ² 10 m (33 ft)	0446505892
Interconnection cable 120mm ² 15 m (49 ft)	0446505893
Interconnection cable 120mm ² 20 m (66 ft)	0446505894



1	Wire feeding unit	2	Robotic torch	3	Robot arm
4	Base cable split box	5	Shielding gas regulator	6	Compressed air
7	Power source with AGW	8	Wire spool	9	Interconnection cable
10	Intermediate cable				



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