

# ESAB COBOT

Simple-to-use robotic welding for higher productivity,  
less rework – and a sharper edge over the competition.



ESAB Cobot robotic welding systems solve today's toughest challenges in the most demanding environments, including industries with a high mix of low-volume parts. It allows for increased output and productivity – without more manpower – all in a small footprint.

Best of all, unlike traditional robotics there's no complicated programming. Cobots are made for welders, not programmers, with app-based software that is simple and intuitive.

Combining the best-quality UR arm on the market, the Aristo 500ix heavy-industrial pulse welding power source, and the RobustFeed U82 wirefeeder, ESAB Cobot is the ideal solution for superior feed-ability and arc performance.

## Industry

- General Industrial Fabrication
- Energy
- Transportation
- Repair and Maintenance
- Educational

- Easy-to-use app-based software allows immediate access to parts programming, analytics for increased repeatability and uptime, and productivity monitoring.
- In-app remote support provides answers and information in a matter of minutes.
- Advanced pulse functionality reduces heat input and minimizes spatter to improve productivity by reducing rework, saving you time and cost.
- No robot operation/programming experience required.
- Playlist/Part storage for quick and easy recall.

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



*Aristo 500ix*



  
reddot winner 2021

*Robust Feed U82*

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| Specifications                                                                    |                                                                                                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage for Cobot                                                           | 120V – 240VAC 1 ph                                                                                                                                 |
| Input Voltage for Welding Equipment                                               | 380 – 575 V $\pm$ 10%, 3ph, 50/60 Hz                                                                                                               |
| Internet Requirement                                                              | RJ45 Hardline with outbound internet access                                                                                                        |
| Welding Output                                                                    | <b>Air-Cooled</b><br>Mix 400 A / 60%, 270 A / 100%<br>CO2 480 A / 60%, 320 A / 100%<br><b>Water-Cooled</b><br>Mix 400 A / 100%<br>CO2 400 A / 100% |
| <b>Wire Dimensions</b><br>Mild Steel<br>Stainless Steel<br>Cored Wire<br>Aluminum | 0.8 – 1.6 mm (.030 - 1/16 in.)<br>0.8 – 1.6 mm (.030 - 1/16 in.)<br>0.8 – 1.6 mm (.030 - 1/16 in.)<br>0.8 – 1.6 mm (.030 - 1/16 in.)               |
| Wire Feed Speed                                                                   | 0.8 - 25.0 m/min (30 – 985 ipm)                                                                                                                    |
| Wire Spool Capacity                                                               | 20 kg (45 lbs)                                                                                                                                     |
| Max Spool Diameter                                                                | 300 mm (12 in.)                                                                                                                                    |
| Operating Temperature                                                             | -10 - 40°C (14 to 104°F)                                                                                                                           |
| Maximum Cobot Arm Reach                                                           | 1300 mm (51.2 in.)                                                                                                                                 |
| Dimensions L x W x H, incl. Arm in full upright position                          | 1219 mm x 1042 mm x 2951 mm (48 x 41 x 116.2 in.)                                                                                                  |
| Weight                                                                            | 377 kg (830 lbs.)                                                                                                                                  |

| Ordering Information                           |            |
|------------------------------------------------|------------|
| ESAB Cobot Aristo 500ix Air-Cooled 460V 3 ph   | 0464752010 |
| ESAB Cobot Aristo 500ix Water-Cooled 460V 3 ph | 0464752020 |
| ESAB Cobot Aristo 500ix Air-Cooled 575V 3 ph   | 0464752012 |
| ESAB Cobot Aristo 500ix Water-Cooled 575V 3 ph | 0464752022 |

Air-Cooled Packages includes Welding table, Universal Robot, Aristo 500ix (0446200881), RobustFeed U82 (0445800900), Interconnection set, air-cooled torch RT 72G (0700300850), torch cable assembly (0700025122), torch mount (0700300422), regulator (Victor EDGE 2.0 ESS32-150-580 (0781-3634))

Water-Cooled Packages includes: Welding table, Universal Robot, Aristo 500ix (0446200881), RobustFeed U82 (0445800900), cooling unit, Interconnection set, water-cooled torch RT 72W (0459990225), torch cable assembly (0700025123), torch mount (0700300422), regulator (Victor EDGE 2.0 ESS32-150-580 (0781-3634))

| Torch Consumables         |            |
|---------------------------|------------|
| Guide nipple incl. O-ring | 0700300471 |
| O-ring                    | 0700300398 |
| O-ring                    | 0700300397 |
| Nozzle seat RT 72         | 0459990039 |
| Neck insulator ceramic    | 0459990040 |
| Locking nut               | 0459990041 |
| Nozzle insulator, black   | 0459990223 |

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## Torch Consumables

|                                                    |            |
|----------------------------------------------------|------------|
| Contact tip M8x30mm, CuCrZr (HD) 0.8 mm (0.30 in.) | 0700300372 |
| Contact tip M8x30mm, CuCrZr (HD) 0.9 mm (0.35 in.) | 0700300373 |
| Contact tip M8x30mm, CuCrZr (HD) 1.2 mm (0.45 in.) | 0700300375 |
| Contact tip M8x30mm, CuCrZr (HD) 1.4 mm (0.52 in.) | 0700300376 |
| Contact tip M8x30mm, CuCrZr (HD) 1.6 mm (1/1 in.)  | 0700300377 |
| Contact tip M8x30mm, Ecu for Al 1.2 mm (0.45 in.)  | 0700300360 |
| Contact tip M8x30mm, Ecu for Al 1.4 mm (0.52 in.)  | 0700300361 |
| Contact tip M8x30mm, Ecu for Al 1.4 mm (1/16 in.)  | 0700300362 |
| Tip holder M8, HD, Brass                           | 0700300677 |
| Gas nozzle con., NW 16 mm                          | 0700300389 |
| Gas nozzle con., NW 16 mm, stick out               | 0459990130 |

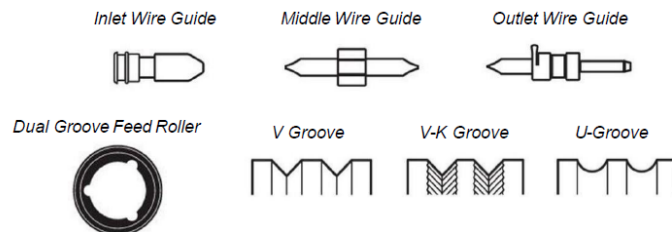
Additional consumables can be found in XA00205520\_ESAB-RT-Robotic-Torches\_GL\_EN

## Feeder Wear Parts

|                                                                       |            |
|-----------------------------------------------------------------------|------------|
| Feed Roller V Groove for Fe/SS/C 0.8-0.9/1.0 mm (.030 - .040 in.)     | 0445850002 |
| Feed Roller V Groove for Fe/SS/C 0.9/1.0-0.9/1.0 mm (.040 - .040 in.) | 0445850003 |
| Feed Roller V Groove for Fe/SS/C 0.9/1.0-1.2 mm (.040 - .045 in.)*    | 0445850004 |
| Feed Roller V Groove for Fe/SS/C 1.2-1.2 mm (.045 - .045 in.)         | 0445850005 |
| Feed Roller V Groove for Fe/SS/C 1.4-1.6 mm (.052 - 1/16 in.)         | 0445850006 |
| Feed Roller V-K Groove for C 0.9/1.0-1.2 mm (.040 - .045 in.)         | 0445850030 |
| Feed Roller V-K Groove for C 1.2-1.2 mm (.045 - .045 in.)             | 0445850031 |
| Feed Roller V-K Groove for C 1.2-1.4 mm (.045 - .052 in.)             | 0445850032 |
| Feed Roller V-K Groove for C 1.6-1.6 mm (1/16 - 1/16 in.)             | 0445850033 |
| Feed Roller U Groove for Al 0.8-1.0 mm (.030 - .040 in.)              | 0445850050 |
| Feed Roller U Groove for Al 1.0-1.2 mm (.040 - .045 in.)              | 0445850051 |
| Feed Roller U Groove for Al 1.2-1.6 mm (.045 - 1/16 in.)              | 0445850052 |
| Inlet Wire Guide Ø 2 mm for Fe/SS/Al/C 0.6-1.6 mm (.023 - 1/16 in.)*  | 0445822001 |
| Middle Wire Guide for Fe/SS/C 0.6-1.6 mm (.023 - 1/16 in.)*           | 0446080882 |
| Middle Wire Guide for Al 0.8-1.6 mm (.030 - 1/16 in.)                 | 0446080881 |
| Outlet Wire Guide for Fe/SS/C 0.6-1.6 mm (.023 - 1/16 in.), Euro      | 0445830881 |
| Outlet Wire Guide for Al 0.8-1.6 mm (.030 - 1/16 in.), Euro           | 0445830885 |

Feeder is drum adaptable with Quick Connector Marathon Pac™ (F102440880)

Fe = Mild Steel; SS = Stainless Steel; Al = Aluminum; C = Cored Wire \* Included in delivery.  
For complete list of wear and spare parts please see separate manual.



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