

Aristo® Mig U5000iw WC

Advanced Synergic Multi-Process Welder



PRECIDRIVE



Multi-process Aristo® Mig U5000iw power source provides substantially improved arc welding performance and higher productivity for robotic and semi-automatic applications.

Professional TIG DC welding with U5000iw. Additionally, U5000iw features high frequency, LiftArc™ striking and TIG pulse-welding with DC.

The Aristo power source is designed to integrate with ESAB's industry-leading WeldCloud™ online data management platform via Wi-Fi or hard wired Ethernet communication.

- Proven, robust, heavy-duty industrial system that holds up in the most demanding welding environments
- Greatly improved performance with high speed Swift Arc Transfer (SAT™) welding
- Advanced pulse SuperPulse™ functionality reducing heat input, weld spatter and post weld clean up, controlling bead appearance and profile, increased speed for position welding and more depending on the application
- Up to 259 manual and 68 robotic pre-programmed synergic lines (U82 Plus) allows for a broad range of applications
- Effective fleet management, increased productivity and improved quality control with WeldCloud™ applications
- QSet welding mode that features automatic adaptation to varying contact tip to work piece distances
- PreciDrive wire drive system maintains precision wire feeding performance to promote consistent weld quality



*Aristo Mig U5000iw DC CVCC - MIG – Pulse MIG - SMAW
DC TIG – TIG Pulse – HF Start, Water Cooled*

Industry

- Automotive
- Transportation
- General Manufacturing
- Heavy Fabrication
- Nuclear & Aerospace
- Pressure Vessels
- Ship/Barge Building

Visit esab.com for more information.

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Specifications	
	U5000iw
Mains Voltage	460 V
Number of Phases	3 ph
Supply Frequency	50/60 Hz
Fuse Slow	32 A
Welding Output, 40°C	500 A / 40 V at 60% Duty Cycle 400 A / 36 V at 100% Duty Cycle
Setting Range, MIG/MAG	16-500 A, 8-60 V
Setting Range, MMA DC	16-500 A
Setting Range, TIG DC	4-500 A
Open Circuit Voltage MIG/MAG *	72-88 V
Open Circuit Voltage MIG/MAG VRD **	59 V
Open Circuit Voltage MMA	68-80 V
Open Circuit Voltage MMA VRD	< 35 V
Energy Save Mode	50 W
Rated kVA	25.2 kVA
Efficiency at Max Current	90%
Power Factor at Max Current	0.91
Control Voltage	42 V
Dimensions L x W x H	-
Dimensions L x W x H with cooling unit	625x394x776 mm (24.6x15.5x30.6 in.)
Weight with / without cooling unit	92.1 kg (203 lbs)
Operating Temperature	-10-40 °C (14-104 °F)
Enclosure Class	IP23
Insulation Class	H
Application Class	S
Approval	CSA
Mains Cable	4x6 mm ² (4x8 AWG)
Water cooling unit	
Cooling Capacity	1.6 kw
Coolant Volume	5.5 l (1.5 gal)
Max Flow	2.0 lpm (0.53 gpm)
Max Pressure	4.9 bar (71 psi)
Weight	20 kg (44 lbs)
Multi-Voltage Unit	
Mains Voltage	3x208/230/400/460/575 V
Weight	75 kg (165.4 lbs)
Dimension L x W x H	621x389x266 mm (24.4x15.3x10.5 in.)

* Valid for power sources without VRD specifications on the rating plate.

** Valid for power sources with VRD specifications on the rating plate. The VRD function is explained in the instructions manual for the control panel if the panel has that function.

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Ordering Information

Aristo® Mig U5000iw 460V CSA, integrated W82 and WeldCloud™	0445400886
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Delivery content: power source with built in water cooler, 5m (16 ft) mains cable incl. plug, 5 m return cable incl. earth clamp, 12p-10p interconnection cable adapter. For more information on WeldCloud™ online weld management platform see separate fact sheet and manual.

Options and Accessories

TUA-2 Auto-Transformer (multi-voltage)	0459145880
Handle incl. mounting screws for separate installation (2)	0459307881
Heavy-Duty Dual Cylinder Cart (cannot be used with U5000iw + multi-voltage unit)	0558102236
Trolley Aristo with swivel post (single feeder)	0458530880
Trolley Aristo Dual Cylinder (dual feeder)	0458603880
Guide pin (If no trolley)	0458731880
Remote control adapter RA12	0459491910
Remote control MTA1 CAN	0459491880
Remote control M1 10Prog CAN	0459491882
Remote control AT1 CAN	0459491883
Remote control AT1 CoarseFine CAN	0459491884
Foot pedal T1 Foot CAN, incl. 5 m cable with 10 pole plug, For connection to the feeder with U6 panel	0460315881
Foot pedal T1 Foot CAN, incl. 5 m cable with 12 pole plug, For connection to the feeder for U82	0460315880
Remote Interconnection Cable 5 m (16 ft), 12 pole (U82)	0459554880
Remote Interconnection Cable 10 m (32 ft), 12 pole (U82)	0459554881
Remote Interconnection Cable 15 m (49 ft), 12 pole (U82)	0459554882
Remote Interconnection Cable 25 m (82 ft), 12 pole (U82)	0459554883
Remote Interconnection Cable 5 m (16 ft) HD, 12 pole (U82)	0459554980
Remote Interconnection Cable 10 m (32 ft) HD, 12 pole (U82)	0459554981
Remote Interconnection Cable 5 m (16.4 ft), 10 pole (U6)	0459960880
Remote Interconnection Cable 10 m (33 ft), 10 pole (U6)	0459960881
Work Cable GC-500 4.5 m (15 ft) 4/0	0700006897
Foot Pedal T1 Foot CAN, incl. 5 m (16.4 ft) cable with 10 pole plug, for connection to the feeder with U6 panel	0460315881
Foot Pedal T1 Foot CAN, incl. 5 m (16.4 ft) cable with 12 pole plug, for connection to the feeder for U82	0460315880
Quick connector kit for current, water and shielding gas supply for 2x RobustFeed	0459546880
MMC kit for MMC panel mounted in the power source	0459579880
Water Flow guard complete	0456855880
Cooling unit OCE2H	0414191881
Coolant 10l	0465720002

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Interconnection Cables		
	Air-Cooled	Water-Cooled
Interconnection Cables - 70mm ² , 2.0m (6ft), CAN 10p-10p, incl. strain relief	0446255880	0446255890
Interconnection Cables - 70mm ² , 5.0m (16ft), CAN 10p-10p, incl. strain relief	0446255881	0446255891
Interconnection Cables - 70mm ² , 10.0m (33ft), CAN 10p-10p, incl. strain relief	0446255882	0446255892
Interconnection Cables - 70mm ² , 15.0m (49ft), CAN 10p-10p, incl. strain relief	0446255883	0446255893
Interconnection Cables - 70mm ² , 20.0m (65ft), CAN 10p-10p, incl. strain relief	0446255884	0446255894
Interconnection Cables - 70mm ² , 25.0m (82ft), CAN 10p-10p, incl. strain relief	0446255885	0446255895
Interconnection Cables - 70mm ² , 35.0m (115ft), CAN 10p-10p, incl. strain relief	0446255886	0446255896
Interconnection Cables - 95mm ² , 2.0m (6ft), CAN 10p-10p *	0459528980	0459528990
Interconnection Cables - 95mm ² , 5.0m (16ft), CAN 10p-10p *	-	0459528991
Interconnection Cables - 95mm ² , 10.0m (33ft), CAN 10p-10p *	-	0459528992
Interconnection Cables - 95mm ² , 15.0m (49ft), CAN 10p-10p *	-	0459528993
Interconnection Cables - 70mm ² , 25.0m (82ft), CAN 10p-10p *	-	0459528994
Interconnection Strain Relief Kit Aristo **	0446050881	
12p-10p Interconnection Cable Adapter	0446089880	

* Strain Relief Kit required for RobustFeed.

** To upgrade existing Aristo interconnection cable sets to fit with RobustFeed.

Wire Feeder & Control Panel	
Robust Feed U82 (U82 Plus, ELP, gas flow meter+heater+MMA outlet) Water cooled Tweco® 4	0445800896
Robust Feed U82 (U82 Plus, ELP, gas flow meter+heater+MMA outlet) Water cooled, Euro	0445800900
Robust Feed U82 (push pull connection only, paired with the PullMaster2 Tweco® 4	0445800904
Robust Feed U6 (push pull capable, gas flow meter+heater+MMA outlet) Air cooled, Tweco® 4	0445800890
Robust Feed U6 (push pull capable, gas flow meter+heater+MMA outlet) Water cooled, Euro	0445800895
Aristo Feed 3004 3004W ENCL 10P (use with U82 Plus 0460820881)	0460526891
Aristo U82 Plus complete incl. Holder	0460820881
Aristo U82 Control cable extension 7.5 m (24 ft)	0460877891

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



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