

# Aristo® Mig 5000iR

New edition robotic welding power source  
with W8<sub>2</sub> robotic interface



The new edition Aristo® Mig 5000iR power source provides substantially improved arc welding performance and higher productivity for robotic applications. It features an improved robot interface with more storage and increased communication speed. A built-in robotic interface module (W8<sub>2</sub>) and built-in web server allow remote access by a wide range of external devices, including robotic controllers.

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

- Improved arc starts with low-to-no spatter
- Improved end of weld crater fill for defect-free weld terminations
- Greatly improved performance in high speed Swift Arc Transfer (SAT™) welding
- Enhanced synergic line performance
- Complete integration with WeldCloud online management platform

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

## Industry

- Automotive
- Transportation
- General Manufacturing
- Ship/Barge Building

# Aristo<sup>®</sup> Mig 5000iR

Specifications		
Power Source	Aristo Mig 5000i	Aristo Mig U5000i
Primary Voltage	3x 400 V, 460 V	3x 400 V, 460 V
Supply Frequency	50/60 Hz	50/60 Hz
Fuse Slow	32 A	32 A
Setting Range MIG (GMAW)	16 – 500 A (8 – 60 V)	16 – 500 A (8 – 60 V)
Setting Range STICK (SMAW)	16 – 500 A	16 – 500 A
Setting Range TIG (GTAW)	-	4 – 500 A
STICK (SMAW) Welding Output	500 A/40 V @ 60% Duty Cycle 400 A/36 V @ 100% Duty Cycle	500 A/40 V @ 60% Duty Cycle 400 A/36 V @ 100% Duty Cycle
Open Circuit Voltage without VRD Function*	72 – 88 V MIG 68 – 80 V STICK	72 – 88 V MIG/TIG 68 – 80 V STICK
Open Circuit Voltage VRD Function Deactivated**	59 V MIG/STICK	59 V MIG/STICK
Open Circuit Voltage VRD Function Activated**	< 35 V	< 35 V
Energy Save Mode (400 V)	50 W	50 W
Rated kVA	25.2 kVA	25.2 kVA
Power Factor at Maximum Current	0.91	0.91
Efficiency at Maximum Current	87%	87%
Control Voltage	42 V 50/60 Hz	42 V 50/60 Hz
Operating Temperature	14 – 104°F (-10 – 40°C)	14 – 104°F (-10 – 40°C)
Approvals	IEC/EN 60974-1, -2, -3, -10	IEC/EN 60974-1, -2, -3, -10
Protection Class	IP23	IP23
Insulation Class	H	H
Dimensions without cooling unit L x W x H	24.6 x 15.5 x 19.5 in. (625 x 394 x 496 mm)	24.6 x 15.5 x 19.5 in. (625 x 394 x 496 mm)
Dimensions with cooling unit L x W x H	24.6 x 15.5 x 30.5 in. (625 x 394 x 776 mm)	24.6 x 15.5 x 30.5 in. (625 x 394 x 776 mm)
Weight	150 lbs. (68 kg)	150 lbs. (68 kg)
Application Class	S	S
<b>Water Cooling Unit</b>		
Cooling Capacity	2500 W @ 104°F (40°C), 0.4 gal/min (1.5 l/min)	
Coolant Volume	1.5 gal (5.5 L)	
Max Flow	0.5 gal (2 L)	
Max Pressure	3.4 bar	
Weight	44 lbs. (20 kg)	
<b>Multi-Voltage Unit</b>		
Primary Voltage	3x 208/230/400/460/475 V	
Supply Frequency	50/60 Hz	
Dimensions L x W x H	24.4 x 15.3 x 10.5 in. (621 x 389 x 266 mm)	
Weight	176 lbs. (80 kg)	

\*Valid for power sources with 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.

# Aristo<sup>®</sup> Mig 5000iR

Ordering Information	
Description	Part Number
Aristo Mig 5000iR 460 V with WeldCloud	0445400884
Aristo Mig 5000iwR 460 V water-cooled with WeldCloud	0445400885
Aristo Mig U5000iR 460 V with WeldCloud	0445400886

*Packages include power source, 16.4 ft. (5 m) mains cable including plug and 16.4 ft. (5 m) return cable including earth clamp. For more information on WeldCloud online weld management platform, see separate product fact sheet.*

Options & Accessories	
Description	Part Number
Multi-voltage unit, wide body	0459145880
Handle including mounting screws for separate installation (2)	0459307881
Trolley 1, standard	0458530880
Trolley 2, for counter balance device and/or 2 gas cylinders	0458603880
Guide pin (if no trolley)	0458731880
Remote control MTA1 CAN	0459491880
Remote control AT1 CAN	0459491883
Remote control AT1 CoarseFine CAN	0459491884
Remote interconnection cable, 16.4 ft. (5 m) 12 pole	0459554880
Remote interconnection cable, 33 ft. (10 m) 12 pole	0459554881
Remote interconnection cable, 82 ft. (25 m) 12 pole	0459554883
Foot pedal T1 Foot CAN, 16.4 ft. (5 m), 10 pole, U6 panel	0460315881
Foot pedal T1 Foot CAN, 16.4 ft. (5 m), 12 pole, U82 panel	0460315880
Quick connector kit for current, water and shielding gas (2x AristoFeed)	0459546880
MMC kit for MMC panel mounted in the power source	0459579880
Water flow guard complete	0456855880
Interconnection Cable - 95mm <sup>2</sup> , Water-Cooled, 5.5 ft. (1.7 m)	0459528970
Interconnection Cable - 95mm <sup>2</sup> , Water-Cooled, 16.4 ft. (5 m)	0459528971
Interconnection Cable - 95mm <sup>2</sup> , Water-Cooled, 33 ft. (10 m)	0459528972
Interconnection Cable - 95mm <sup>2</sup> , Water-Cooled, 49 ft. (15 m)	0459528973
Interconnection Cable - 95mm <sup>2</sup> , Water-Cooled, 82 ft. (25 m)	0459528974
Interconnection Cable - 95mm <sup>2</sup> , Water-Cooled, 115 ft. (35 m)	0459528975



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COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
= ISO 9001 =  
= ISO 14001 =  
= OHSAS 18001 =