Aristo™ Mig U4000i/U5000i

Optimum welding solutions

Robust and powerful

Aristo™ Mig U4000i and U5000i are ideal partners when it comes to efficient production or prefabrication of high alloyed materials with a very high demand on the welding performance.

The power sources are compact and sturdy pieces of equipment with a chassis made of extruded aluminium sections: **Alutech™.** This is a robust material that withstands rough treatment.

The power sources are based on inverter IGBT technology that provides reliable equipment with outstanding welding characteristics. The control and communication CAN-bus system means less cables, which in turn increases operational reliability.

ESAB LogicPump The patented ESAB LogicPump ELP, automatically starts the cooling water pump in the machine when a water cooled torch is connected to the wire feeders Aristo™ Feed 3004 or Aristo™ Feed 4804. This eliminates the risk of over-heating the welding torch. When a self-cooled torch is used, the pump is automatically shut off giving lower noise and longer lifetime for the cooling pump.

Aristo™ Selector is an efficient solution for applications which require a quick and easy exchange between 2 different wire dimensions or wire types. Connect 2 x Aristo™ Feed to 1 Aristo™ Mig and the selector provides automatically power to the one in operation.

Flexibility

The power sources are optimised to operate together with the wire feeders Aristo™ Feed 3004 and Aristo™ Feed 4804. Connection cables up to 35 m provides a working radius of up to 35 m to suit all your individual welding needs.

The TrueArcVoltage System™, in combination with an ESAB PSF™ torch, guarantees that you weld with the correct arc voltage independent of any voltage drop in the welding cables. This means that you will get the same arc voltage and weld result either you have a set-up with short connection cable and 3 m torch or a set-up with 35 m working radius.

Aristo™ U8 for advanced applications

Aristo™ U8 support a quick access to synergic setting. More than 200 pre-programmed synergic lines are available. Welding based on pre-programmed synergic data reduce the preparation before start to a minimum.

The memory provides additional functionalities. The capacity to store up to 255 welding parameters which can be recalled when ever needed. A number of soft buttons with flexible functions provides direct access to Hot start, crater fill, 2/4-stroke etc.

- **Multiprocess equipment**; MIG/MAG, pulse MIG, MMA, TIG, Pulse TIG and Carbon Arc Gouging.
- **Reliable and smooth starts and ends** supported by efficient Hot-start and crater fill functions
- Efficient Man Machine Communication by the user-friendly control panel **U6** or **Aristo™ U8**
- **Wide range** of pre-programmed **synergic lines.** Aristo™ U8 provide the facility to define and store customized synergic lines for any material or gas combinations
- **Memory** for 10 (U6) or 255 (Aristo™ U8) welding parameters
- **ESAB LogicPump ELP,** secures automatic start of water pump by connection of a water cooled welding torch at the wire feeder or a water cooled TIG torch.
- **TrueArcVoltage System™,** measures the correct arc voltage value independent of the length of the connection cable, return cable or welding torch.
- **Dust filter** to handle tough and dirty environment and avoid grinding-dust and metal particles inside the chassis
- **SuperPulse™,** the welding process with the ability to control the heat input (Aristo™ U8).

Applications

- **Advanced mild and stainless steel fabrication**
- **Advanced aluminium fabrication**
- **Prefabrication for Offshore and Shipbuilding**
- **Production of linen drapery (white goods)**
- **Prefabrication of Ni based material**
- **Nuclear & Aerospace**
- **Erection and repair of process and power plants**
- **QA Applications**
- **Pressure vessels, tanks and apparatuses for the process industry**

XA00113020

Technical data

	Aristo™ Mig U4000i	Aristo™ Mig U5000i
Mains Voltage, V, Hz	3x400, 50/60	3x400, 50/60
Fuse slow , A	25	35
Mains cable, mm^2	4x4	4x6
Setting range, MIG/MAG, A/V	16-400/8-60	16-500/8-60
Setting range, MMA DC, A	16-400	16-500
Setting range, TIG DC, A	4-400	4-500
Permitted load, 40 ºC		
at 35% duty cycle, A/V	400/34	
at 60% duty cycle , A/V	320/30	500/39
at 100% duty cycle , A/V	250/27	400/34
Open circuit voltage , V	55-90	68-88
Energy save mode (400V), W	60	50
Input power, kW	16	23
Power factor at maximum current	0.649	0.85
Efficiency at maximum current, %	85	86
Control voltage, V, Hz	42, 50/60	42, 50/60
Dimensions l x w x h, mm	625x394x496	625x394x496
Dimensions l x w x h (with cooling unit), mm	625x394x776	625x394x776
Enclosure class	IP 23	IP 23
Insulation class (main trafo.)	H	H
Operating temperature, °C	-10 to +40	-10 to +40
Weight, kg	61	69
Application class	S	S
Standards	IEC/EN 60974-1, EN 50199	
Water cooling unit:		
Cooling capacity, W, l/min	2500 at 40 °C , 1.5	
Coolant volume, l	5.5	
Max flow:, l/min	2.0	
Max pressure, bar	3.4	
Weight, kg	20	
Multi Voltage unit:	Add on or separate	
Main voltage, V, Hz	3x208/230/400/460/475/575, 50/60	
Weight, kg	80	
Dimension l x w x h, mm	621x389x266	

Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to non. 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 according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. 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.

Ordering information

Aristo™ Mig U4000i	0458 625 884
Aristo™ Mig U4000iw	0458 625 885
Aristo™ Mig U5000i	0459 230 882
Aristo™ Mig U5000iw	0459 230 883
Accessories:	
Multi Voltage unit, Wide body (3x208/230/400/460/475/575V, 50/60 Hz)	0459 145 880
Handle incl mounting screws for separate installation. (Complete set = 2)	0459 307 881
Trolley 1 (Standard)	0458 530 880
Trolley 2 (Feeder with counter balance device and/or 2 gas bottles)	0458 603 880
Guide pin (If no trolley)	0458 731 880
Remote control MTA1 CAN	0459 491 880
Remote control AT1 CAN	0459 491 883
Remote control AT1 CourseFine CAN	0459 491 884
Remote interconnection cables AT1, AT1 CourseFine and MTA1:	
5 m	0459 554 880
10 m	0459 554 881
15 m	0459 554 882
25 m	0459 554 883
Foot pedal FS 002 CAN incl. 5 m cable with Burndy 12 plug	0349 090 890
Quick connector kit for current, water and shielding gas supply for 2x Aristo™ Feed	0459 546 880
MMC kit for MMC panel mounted in the power source	0459 579 880
Options:	
Water Flow guard complete	0456 855 880
Voltage peak reduction unit (applicable only to Aristo™ Mig U4000i)	0458 741 001

Delivery contents: 5 m mains cable incl. plug and 5 m return cable incl. earth clamp

Interconnection cables

	Air cooled torches	Water cooled torches
1,7 m	0456 528 880	0456 528 885
5,0 m	0456 528 890	0456 528 895
10,0 m	0456 528 881	0456 528 886
15,0 m	0456 528 882	0456 528 887
25,0 m	0456 528 883	0456 528 888
35,0 m	0456 528 884	0456 528 889

2006-11-07 / ESAB reserves the right to alter specifications without prior notice

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ISO 9001:2000