



ARISTO®

MIG C3000i, U6

**HIGH PERFORMANCE MIG MACHINE FOR
ADVANCED INDUSTRIAL APPLICATIONS**



ARISTO[®] MIG C3000i, U6

**The ideal system for the professional user
working with advanced applications up to 300A.**

Aristo[®] Mig C3000i, U6 is the ideal partner when it comes to efficient production or prefabrication of high alloyed materials with a very high demand on the welding performance.

Aristo[®] Mig C3000i, U6 gives you the choice of the following processes; MIG/MAG, QSet[™], synergic MIG/MAG, synergic pulsed MIG and MMA. The choice of welding process is made on the control panel.

The power source is based on inverter IGBT technology that provides reliable equipment with outstanding welding characteristics.

The communications and control CAN-bus system means less cables, which in turn increases operational reliability.

INTEGRATED FEEDING SYSTEM FOR ALL APPLICATIONS

Aristo[®] Mig C3000i, U6 has the feeder built into the power source to form a compact and versatile unit. The four-wheel wire feed system takes wire spools up to Ø 300 mm and feeds wires between Ø 0,6 and 1,2 mm with wire feed speeds between 0,8 and 25 m/min.

THE TRUEARC VOLTAGE SYSTEM[™]

By combining the Aristo[®] Mig C3000i, U6 with an ESAB PSF[™] torch you are guaranteed a weld with the correct arc voltage independent of any voltage drop in the torch cable. This means that you will get the same arc voltage and weld result regardless of the length and status of the torch.



SYNERGIC LINES AND PULSED WELDING

The user-friendly control panel Aristo[®] U6 provides the Aristo[®] Mig C3000i with ESAB's data bank of synergic lines giving you one-knob setting for MIG/MAG and pulsed MIG.

The pulsed MIG welding performance is excellent, making the Aristo[®] Mig C3000i, U6 an ideal machine for difficult materials such as aluminium.

Simply set the wire feed speed and the QSet[™] function will automatically select the correct welding parameters for your wire/gas combination. QSet[™] does this for all gas and wire combinations, CO₂ and MAG Brazing alike and without any need for synergic lines.

QSet[™] is the quick and easy way to finding optimised welding parameters for the best quality weld. Spatter and set-up time are reduced to a minimum.

It is simple and straightforward to set a new working point with QSet[™]. Only change the wire feed speed to match the required welding power and QSet[™] will select all other parameters for an optimised welding result in the whole short arc area.

All this with only one knob control.

“Convert the C3000i into a superior Super Pulse machine by adding the Aristo U8² Plus pendant interface.”



SUPER PULSE MACHINE

Aristo [®] Mig C3000i U6 Pulse-Plant (Air Cooled)	W1009630
Cover Plate MMC Blank	0458535887
Aristo [™] U8 ² Plus, pendant incl. holder	0460820881

APPLICATIONS

- Advanced mild and stainless steel fabrication
- Advanced aluminium fabrication
- Prefabrication for offshore and shipbuilding
- Production of white goods
- Process plants
- Aluminium vehicles
- Nuclear & Aerospace
- QA Applications
- Prefabrication of NI based material

ADVANTAGES OVER 320P

- Remote Pendant
- Super Pulse
- Large Backlit Display
- 255 Renamable Memories
- Limit Settings
- Password Protection & User Accounts
- Production Statics & Weld Data Extraction via USB
- 4ea Quick Access Memory Buttons
- Trigger Selectable Memories
- Push / Pull Torch Available
- True 4 Roll Wire Drive System Designed for Aluminium Welding
- Water Cooled Torch Option
- Multi-Process
- DC Pulse TIG
- Q-Set (Automatic Weld Setting in Short Circuit Mode)

- **Reliable and smooth weld starts and stops** supported by efficient Hot-start and crater fill functions
- Excellent **Pulsed MIG** welding performance
- Efficient Man Machine Communication by the user-friendly control panel **Aristo® U6**
- **Wide range** of pre-programmed **synergic lines**.
- **QSet™** - automatic setting of short arc MIG/MAG welding parameters
- **Memory** for 10 welding parameter sets
- **ESAB LogicPump ELP**, secures automatic start of water pump when connecting a PSF water cooled welding torch.
- **TrueArcVoltage System™**, measures the correct arc voltage value independent of the length of the PSF™ welding torch



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TECHNICAL DATA, ARISTO® MIG C3000I

Mains Voltage, V, Hz	400, 3~50/60
Fuse slow, A	16
Mains cable, mm2	4x4
Wire feed speed, m/min	0.8-25.0
Setting rangeMMA, A	16-300
Permitted load MIG, 40°C	
at 35% duty cycle, A	300/29 V
at 60% duty cycle, A	240/26 V
at 100% duty cycle, A	200/24 V
Open circuit voltage, V	60
Open circuit voltage limit (VRD active), V	<35
Energy save mode (400V), W	30
Input power, kW	10.4
Apparant power, kVA	11.9
Power factor at maximum current	0.7
Efficiency at maximum current, %	84
Control voltage, V, Hz	42, 50/60
Dimensions lwxhxh, mm	625x410x420
Wire spool capacity, kg	18
Max. spool diameter, mm	300
Setting data - Wire dimensions:	
steel	0.6-1.2
stainless steel	0.6-1.2
aluminium	1.0-1.2
cored wire	0.8-1.2
Enclosure class	IP 23C
Operating temperatur, °C	-10 to +40
Insulation class (main trafo.)	H
Weight, kg	38
Application class	S
Standards	IEC/EN 60974-1, -10
Water cooling unit:	
Cooling capacity, W, l/min	1600
Coolant volume, l	4.2
Max flow, l/min	4
Max pressure, 50/60 Hz bar	3/3.8
Weight, kg	19/23

TORCHES AND WARE PARTS

Recommended torches/PushPull guns:	0460 265 003
PSF™ 305 3.0m	0458 401 880
PSF™ 305 4.5m	0458 401 881
PSF™ 410w 3.0m	0458 400 882
PSF™ 410w 4.5m	0458 400 883

WEAR PARTS

Wire Ø mm	Wire type	1 Feed roller	2 Inlet nozzle	3 Intermediate nozzle	4 Outlet nozzle	Groove type	Marking
0.6 / 0.8	Fe, Ss, C	0459 052 001	0455 049 001	0455 072 002	0469 837 880	V	0.6 S2 & 0.8 S2
0.8 / 0.9-1.0	Fe, Ss, C	0459 052 002	0455 049 001	0455 072 002	0469 837 880	V	0.8 S2 & 1.0 S2
0.9-1.0 / 1.2	Fe, Ss, C	0459 052 003	0455 049 001	0455 072 002	0469 837 880	V	1.0 S2 & 1.2 S2
0.9-1.0 / 1.2	C	0458 825 001	0455 049 001	0455 072 002	0469 837 880	V-K	1.0 R2 & 1.2 R2
0.8 / 0.9-1.0	Al	0458 824 001	0455 049 001	0456 615 001	0469 837 881	U	0.8 A2 & 1.0 A2
1.2 / 1.6#	Al	0458 824 003	0455 049 001	0456 615 001	0469 837 881	U	1.2 A2 & 1.6 A2

C = cored wire, K=knurled groove, Bold = Standard delivery, #1.6 = NA

ORDERING INFORMATION

Aristo® Mig C3000i U6 Pulse-Plant (Air Cooled)	W1009630
Plant Contents: Aristo/Origo MIG C3000i U6 Pulse Power Source, mains cable 5m 415V/3Phase (NO plug) 0459750882, MIG Torch PSF305 3m 0458401880, 0.9mm M6 contact tip 0468500002, 0.9/1.2mm feed roll 0459052003, work lead with clamp 5m, Gas hose 1.5m c/w clamp & quick connector, Regulator Comet 250 Argon 45LPM 201017, Kit Connector 5/8-18UNF RH 308689 & instruction manual	
Aristo® Mig C3000i, U6 Power Source	0459 750 882
Delivery content:	
5 m mains cable with plug, 4.5 m return cable with earth clamp, 2 m gas hose, 2 hose clamps and 1 quick connector female.	0460 450 883
Accessories:	
Trolley 2-wheel	0459 366 890
Trolley 4-wheel	0460 060 880
Water cooler CoolMidi 1800	0459 840 880
Aristo U8+ Controller	0460820881
Cover Plate MMC Blank	0458535887
Remote control MTA 1 CAN	0459 491 880
Remote control AT1 CAN	0459 491 883
Remote control AT1 CourseFine CAN	0459 491 884
Remote interconnection cables:	
5m	0459 554 880
10m	0459 554 881
Regulator Argon Comet	301526
Hose end connector 5/8-18unf-RH	308689
Aluminium Kit	W6001200
Includes: 1.2/1.6mm U Groove feed Rolls 0458824003(4ea), PTFE liner 3m 0366550886 (1ea), Contact Tip 1.2mm A (1Pk/10ea), Intermediate Nozzle Al 0456615001(1ea), Outlet Nozzle Al 0469837881(1ea)	

Remote adapter kit 0459 681 891 is compulsory for RS3.

**Use remote adapter kit 0459 681 891 for MXH™ PP.

Connection kit 0459 020 883 can be used, but with limited functionality.

TORCHES AND WARE PARTS

MXH™ 300 PP 6.0m**	0700 200 017
MXH™ 300 PP 10.0m**	0700 200 018
MXH™ 400w PP 6.0m**	0700 200 015
MXH™ 400w PP 10.0m**	0700 200 016
Remote adapter kit MXH™ PP / PSF™	RS3 0459 681 891

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