ARISTO®
MIG C3000i

HIGH PERFORMANCE PULSE MIG MACHINE FOR ADVANCED INDUSTRIAL APPLICATIONS

U6

U8²

ARISTO® MIG C3000i, U6/U8²

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

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

Aristo® MIG C3000i, 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, 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 300mm and feeds wires between 0.6mm and 1.2mm with wire feed speeds between 0.8 and 25m/min.

THE TRUE ARC VOLTAGE SYSTEM™

By combining the Aristo® MIG C3000i, 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 Aristo® U6 user-friendly control panel provides the Aristo® MIG C3000i with ESAB's data bank of synergic lines giving you one-knob setting for MIG/MAG and pulsed MIG. For a superior setup with more advanced features and SuperPulse functionality, the U8² control panel takes specialised settings to the next level!

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

WHAT IS QSET™?

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 on either of the control panels.

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.

U6 Features

- **Reliable and smooth weld starts and stops** supported by efficient Hot-start and crater fill functions
- Excellent **Pulsed MIG** welding performance
- **User-friendly** control panel
- **Wide range** of pre-programmed **synergic lines**
- **Memory** for 10 welding parameter sets

- **QSet™** - automatic setting of short arc MIG/MAG welding parameters
- **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

WHY UPGRADE TO A **U8²** PANEL?

ADVANTAGES OF THE U8² CONFIGURATION

- ■ Remote Pendant
- ■ SuperPulse™ Functionality
- ■ 3-in-1 Multi-Process Inverter
- ■ DC Pulse (Lift) TIG
- ■ Synergic Lines:
    - — Standard package (92),
    - — Complete Package (>230) & User Defined synergic lines
- ■ QSet™ (Automatic Weld Setting in Short ARC Mode)
- ■ Quick Setting Controls for Wire Feed Speed and Voltage
- ■ File Manager & Auto Save Mode
- ■ 255 Renamable Memories
- ■ Memories: Selectable via Trigger Switch
- ■ Production Statistics & Weld Data Extraction via USB
- ■ Limit Settings
- ■ Anti-Theft Password Protection & User Accounts
- ■ Large Backlit Display
- ■ True 4 Roll Wire Drive System Designed for Aluminium Welding
- ■ Water Cooled Torch Option
- ■ Push / Pull Torch Available
- ■ USB connectivity for storing weld data
- ■ FREE Software updates for the life of the machine

The U8² is developed to meet the most demanding requirements yet is designed to be simple and easy to use. The system allows you to perform Pulsed or Non Pulsed welding to achieve optimal results in Aluminium as well as with solid or flux cored wire on Mild/Carbon Steel and Stainless Steel.

WHAT IS SUPER PULSE™ ?

If your application demands efficient root runs or positional welding on thin, or thick aluminium or stainless materials, then SuperPulse™ will provide the optimum solution.

With productivity as the objective, today's TIG process is tomorrow's SuperPulse™.

The prime advantage of the pulse/pulse process - is the ability to control the heat input. Pulse/pulse is a well established process and has mainly been focused on aluminium welding.

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

ARISTO® MIG C3000i, U8²
PART NO: W1009690

ARISTO MIG C3000I U6 PULSE PLANT — W1009630

Aristo® MIG C3000i U6 Power Source **Includes:** Mains cable 415V/3 Phase, 5m (No Plug), 0.9mm M6 Contact Tip, 0.9/1.2mm Feed Roll, Work Lead with Clamp 5m, Gas Hose 1.5m c/w Clamp & Quick Connector	0459 750 882
PSF305 Euro MIG Torch, 3m	0458 401 880
Argon Regulator 45LPM 2GA	201017
Hose Connection Kit (5mm) 5/8"-18 UNF RH	308689

ARISTO MIG C3000I U8² SUPERPULSE™ PLANT — W1009690

Aristo® MIG C3000i U6 Power Source **Includes:** Mains cable 415V/3 Phase, 5m (No Plug), 0.9mm M6 Contact Tip, 0.9/1.2mm Feed Roll, Work Lead with Clamp 5m, Gas Hose 1.5m c/w Clamp & Quick Connector	0459 750 882
Aristo™ U8² Plus, Pendant Incl. Holder	0460 820 881
Blank Cover Plate MMC	0458 535 887
PSF305 Euro MIG Torch, 3m	0458 401 880
Argon Regulator 45LPM 2GA	201017
Hose Connection Kit (5mm) 5/8"-18 UNF RH	308689

ACCESSORIES:

Trolley 2-wheel	0459 366 890
Trolley 4-wheel	0460 060 880
Water Cooler CoolMidi 1800	0459 840 880
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
COMET Argon Regulator, ESS3 45LPM 2GA	301526
Aluminium Kit **Includes:** 1.2/1.6mm U Groove Feed Rolls 0458824003 (4ea), PTFE Liner 3m 0366550886 (1ea), Contact Tip 0468502008 (1Pk/10ea), Tip Adapter 0460819001, Intermediate Nozzle Al 0456615001 (1ea), Outlet Nozzle Al 0469837881 (1ea)	W6001200

STANDARD MIG TORCHES

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

TECHNICAL DATA, ARISTO® MIG C3000I

Mains Voltage	400V, 3~50/60 Hz
Fuse Slow	16A
Mains Cable	16mm²
Wire Feed Speed	0.8 - 25.0 m/min
Setting Range MMA	16 - 300A
Permitted Load MIG, 40ºC, 10min	300A @ 35%, 29V 240A @ 60%, 26V 200A @ 100%, 24V
Open Circuit Voltage	60V
Open Circuit Voltage Limit (VRD active)	<35V
Energy Save Mode (400V)	30W
Input Power	10.4kW
Apparent Power	11.9kVA
Power Factor at maximum current	0.7
Efficiency at maximum current, %	84
Control Voltage, V, Hz	42, 50/60
Dimensions L x W x H, mm	625 x 410 x 420
Weight	38kg
Wire Spool Capacity	15kg / 300mm
Setting Data - Wire Dimensions:	
Steel	0.6-1.2mm
Stainless Steel	0.6-1.2mm
Aluminium	1.0-1.2mm
Cored Wire	0.8-1.2mm
Enclosure Class	IP 23C
Operating Temperature	-10ºC to +40ºC
Insulation Class	H
Application class	S
Standards	IEC/EN 60974-1, -10

WATER COOLING UNIT, COOLMIDI 1800

Cooling Capacity, W	1600l/min
Coolant Volume	4.2l
Max Flow	4l/min
Max Pressure, 50/60 Hz bar	3/3.8
Weight	19kg (Empty)

PUSH/PULL GUNS & 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

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

*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.

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