

Aristo™ Mig C3000i, MA6

High performance MIG machine for advanced medium industrial applications

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

Aristo™ Mig C3000i, MA6 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, MA6 gives you the choice of the following processes; MIG/MAG, 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, MA6 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 TrueArcVoltage System™

By combining the Aristo™ Mig C3000i, MA6 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™ MA6 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, MA6 an ideal machine for difficult materials such as aluminium.

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**

- **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™ MA6**
- **Wide range** of pre-programmed **synergic lines**.
- **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

Technical data

Mains Voltage, V, Hz	400, 3-50/60
Fuse slow, A	16
Mains cable, mm ²	4x2.5
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	70-80
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 l x w x h, 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



Ordering information

Aristo™ Mig C3000i, MA6 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.

Accessories:

Trolley 2-wheel	0459 366 890
Trolley 4-wheel	0460 060 880
CoolMidi 1800	0459 840 880
Remote control MTA 1 CAN	0459 491 880
Remote control M1 10 Prog. CAN	0459 491 882
Remote control AT1 CAN	0459 491 883
Remote control AT1 CourseFine CAN	0459 491 884
Remote interconnection cables:	
5 m	0459 554 880
10 m	0459 554 881
15 m	0459 554 882
25 m	0459 554 883
Adapter for 5 kg:s spool	0455 410 001
Connection kit MXH™ PP	0459 020 883
Remote adapter kit MXH™ PP / PSF™ RS3	0459 681 891

Torches and ware parts

Recommended torches/PushPull guns:

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
PSF™ 410w RS3 3.0m*	0458 400 898
PSF™ 410w RS3 4.5m*	0458 400 899
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 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.

Wear parts

Wire Ø mm	Wire type	1 Feed roller	2 Inlet nozzle	3 Intermediat e nozzle	4 Outlet nozzle	Groov e 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



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