

Origo™ Mig 3001i, A24

Mig 3001i/3001iw

Optimum welding solutions

Robust and powerful

Origo™ Mig 3001i 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 galvanised steel. 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 communications and control 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 feeder Origo™ Feed 3004/4804w, Aristo™ Feed 3004/4804w or YardFeed 2000w. 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.

Flexibility

The power sources are optimised to operate together with the wire feeders Origo™ Feed 3004/4804, Aristo™ Feed 3004/4804 or YardFeed 2000. Connection cables up to 50 m provides a working radius of up to 54,5 meter 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 3m gun or a set-up with 54,5 meter working radius.

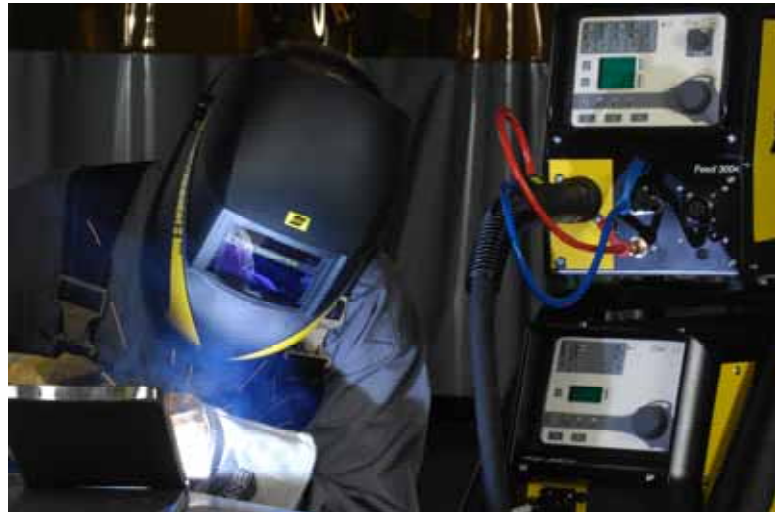
Origo™ Mig 3001i gives the choice of the following processes; MIG/MAG, pulse MIG, MMA, Carbon Arc Gouging and TIG with LiveTig™ start. The choice of processes is related to the choice of control panel.

Origo™ A24 for extended functionality

Origo™ Mig 3001i, A24 can weld MMA and TIG with LiveTig™ start. For MIG/MAG it is prepared to power either the standard Feed 3004/4804 or the arc voltage feeder MobileFeed. The Dual MMC software allows two individual control panels to operate simultaneously on the bus system. Origo™ A24 is supporting the MobileFeed and the feeder panel (MA23/24 or U6) is supporting the standard feeder.

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™ 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 reduces the preparation before start to a minimum.

The memory provides additional functionality. 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.

- **Reliable and smooth starts and ends** supported by efficient Hot-start and crater fill functions
- Efficient Man Machine Communication by the user-friendly control panels **Origo™ MA23 and MA24** or the **Aristo™ U6 and U8**
- **Wide range** of pre-programmed **synergic lines** in **MA24, U6 and U8**. Aristo™ U8 provide the facility to define and store customized synergic lines for any material or gas combinations
- **Memory** for 3 (MA23/24), 10 (U6) or 255 (Aristo™ U8) welding data sets
- **ESAB LogicPump, ELP**, secures automatic start of water pump by connection of a water cooled welding torch.
- **TrueArcVoltage System™**, measures the correct arc voltage value independent of the length of the connection cable, return cable or welding torch.
- **Aristo™ SuperPulse™**, the welding process with the best ability to control the heat input (Aristo™ U8).

Technical data

Mig 3001i	
Mains Voltage, V, Hz	4-300, 50/60
Fuse slow, A	16
Mains cable, mm ²	4x2,5
Setting range MIG/MAG & MMA, A	16-300
Setting range TIG, A	4-300
Permitted load MIG/MAG, 40 °C	
at 35% duty cycle, A/V	300/29,0
at 60% duty cycle, A/V	240/26,0
at 100% duty cycle, A/V	200/24,0
Open circuit voltage, V	67
Energy save mode (400V), W	30
Input power, kW	11,4
Apparant power, kVA	12,7
Power factor at maximum current MIG/MAG & MMA	0,90
Power factor at maximum current TIG	0,89
Efficiency at maximum current MIG/MAG, %	85
Dimensions l x w x h, mm	652x249x423
Dimensions l x w x h (incl. cooling unit), mm	714x249x693
Enclosure class	IP 23
Operating temperatur, °C	-10 to +40
Insulation class (main trafo.)	H

Weight, kg	33
Weight (incl. cooling unit), kg	53,5
Application class	S

Standards	IEC/EN 60971-1/-2/-10
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Water cooling unit:	
Cooling capacity, W (l/min)	1100 (1,0)
Coolant volume, l	5
Max flow, l/min	4
Max pressure, bar	3/3,8
Weight, kg	14/19
External dimensions l x w x h, mm	690x245x300



Origo™ A24

Ordering information

Mig 3001i	0459 740 882
Mig 3001iw	0459 740 883
Origo™ Mig 3001i, A24	0459 740 884

Accessories:	
Trolley 2w	0460 564 880
Feeder platform for Trolley 2w	0460 815 880
Trolley 4w	0460 565 880

Remote control AT1 CAN for current control	0459 491 883
Remote control AT1 CourseFine CAN for course/fine current control	0459 491 884
Remote interconnection cables AT1 and AT1 CourseFine	
5 m	0459 960 880
10 m	0459 960 881
25 m	0459 960 882

Options:	
Water Flow guard complete for Mig 3001iw	0456 855 881

Delivery content: 5 m mains cable incl. plug and 4,5 m return cable incl. earth clamp.



Interconnection cables 10/10 pole YardFeed 2000

50 mm ²	Air cooled torches	Water cooled torches
10.0 m	0459 528 562	0459 528 572
15.0 m	0459 528 563	0459 528 573
25.0 m	0459 528 564	0459 528 574
35.0 m	0459 528 565	0459 528 575
50.0 m	0459 528 566	0459 528 576

Interconnection cables 10/10 pole Feed 3004/4804

70 mm ²	Air cooled torches	Water cooled torches
1.7 m	0459 528 780	0459 528 790
5.0 m	0459 528 781	0459 528 791
10.0 m	0459 528 782	0459 528 792
15.0 m	0459 528 783	0459 528 793
25.0 m	0459 528 784	0459 528 794
35.0 m	0459 528 785	0459 528 795

95 mm ²		
1.7 m	0459 528 980	0459 528 990

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 none. 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.



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