

Origo™ Mig 4001i, A24

Mig 4001i/4001iw

Optimum welding solutions

Robust and powerful

Origo™ Mig 4001i are your 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 to withstand the rigours of everyday industrial use.

The design of these power sources is based on inverter IGBT technology which ensures a combination of reliability and 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 operating noise levels and potentially, a longer working life 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 m.

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 torch or a set-up with 54.5 m working radius.

Origo™ Mig 4001i allows the choice of the following processes; MIG/MAG, Pulse MIG, MMA and Carbon Arc Gouging. The choice of processes is related to the different control panels.

Market Segments

- Civil Construction & Field Erection
- Energy Generation
- Pipeline Contractors
- Earth Moving and Mining
- Transport Equipment
- Offshore and Shipbuilding
- (Hire Fleets)

Applications

- Advanced mild and stainless steel fabrication
- Advanced aluminium fabrication
- QA Applications
- Prefabrication of Ni based material

XA00138620



Origo™ A24 for extended functionality

Origo™ Mig 4001i A24 is prepared to power either the standard Feed 3004/4804 or the arc voltage feeder MobileFeed. The Dual MMC software allow two individual MMC panels to operate simultaneously on the CANbus system. A24 will support the MobileFeed in CC and CV mode and the feeder panels MA23, MA24 and U6.

Aristo™ U8₂ for advanced applications

Aristo™ U8₂ provides 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 functionality and the capacity to store up to 255 welding parameters which can be recalled when ever needed. A number of soft buttons with flexible functions provide 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 **U8₂**
- **Wide range** of pre-programmed **synergic lines** in **MA24, U6** and **U8₂**. Aristo™ U8₂ 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™ U8₂) welding parameters
- **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.
- **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™ U8₂).

Technical data

	Mig 4001i
Mains voltage V, Hz	400, 3~ 50/60
Fuse, slow , A	20
Mains cable , Ø mm ²	4 x 4
Permitted load MIG/MAG at	
35% duty cycle A/V	400 / 34
60% duty cycle A/V	320 / 30
100% duty cycle A/V	250 / 26,5
Setting range A	
MIG/MAG	20 - 400
MMA	16 - 400
TIG	4 - 400
Open circuit voltage V	91
Open circuit power W	60
Power factor at maximum current	0,89
Efficiency at maximum current %	85
Control voltage V, Hz	42, 50/60
Dimensions l x w x h , mm	652x249x423
Dimension with cooling unit l x w x h , mm	714x249x693
Weight incl mains cable and plug , kg	43,5
with cooling unit kg	63,5
Operating temperature	-10 to +40°C
Enclosure class	IP 23
Application classification	S

The instruction manual include additional technical data.



Origo™ A24

Technical data CoolMidi 1000

Mains supply , from power source V, Hz	400, 3~ 50/60
Coolant flow capacity , l/min	4,0
Max pressure 50/60 Hz , bar	3/3,8
Max pressure height to torch , m	7
Weight , kg	14
Incl coolant, kg	19
Dimensions l x w x h , mm	630x245x300
Dimensions incl. filler tube l x w x h , mm	690x245x300

The instruction manual include additional technical data.

Ordering information

Mig 4001i	0460 455 882
Mig 4001iw	0460 455 883
Origo™ Mig 4001i	0460 455 884

Accessories:	
Trolley 2-wheel	0460 564 880
Feeder platform Trolley 2-wheel	0460 815 880
Protection frame	0460 459 880
Trolley 4-wheel	0460 565 880
Stabilizer kit Trolley 4w, for Counterbalance device (Only one Counterbalance device per trolley)	0460 946 880
Mounting bracket kit (for rack mounting etc)	0460 911 880

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	
5 m	0459 960 880
10 m	0459 960 881
25 m	0459 960 882
5 m HD	0459 960 980
10 m HD	0459 960 981
25 m HD	0459 960 982

Options:	
Water Flow guard complete for Mig 4001iw	0456 855 881

Delivery content: 5 m mains cable incl plug and 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 -10pole

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

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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