

Origo™ Mig 410/510

Powerful and flexible

Robust and powerful

Origo™ Mig 410 and 510 are sturdy and robust step switched power sources for heavy duty MIG/MAG welding. Well proven technology together with ESAB developed software provides high reliability and outstanding welding performance.

The machines are made with a strong galvanised metal casing to withstand harsh environments. The large wheels, sturdy lifting eyelets and an under carriage designed for transport with forklift makes the machines easy to move.

Easy to use

The wide current and voltage range make it easy to optimise settings for a wide variety of filler materials and gases.

The patented ELP, ESAB LogicPump, on the water cooled variants automatically starts the water pump in the machine when a water cooled gun is connected to the wire feeder (Origo™ Feed 304 or Origo™ Feed 484). This eliminates the risk of over-heating the welding gun and prevents costly repairs. When a self-cooled gun is used, the pump is automatically shut off giving lower noise and longer lifetime for the cooling pump.

Flexibility

The machines are optimised to operate together with Origo™ Feed 304 or Origo™ Feed 484 wire feeders. As standard the wire feed unit sits on a swivel post mounted on the top of the Origo™ Mig providing a 360° radius of operation.



The in series fitted and calibrated digital meter kit provides an accurate reading of the set welding parameters and will hold its display even after welding has finished.

Differing wire feed unit mounting options and interconnection cable lengths of up to 35 metres provide maximum flexibility and working area.

The system is prepared ready for simple mechanisation applications using the ESAB MiggyTrac and Railtrac.

Applications

- Civil construction
- Mobile machinery
- Foundries
- Shipyards
- Pipeworks

- **Outstanding welding characteristics**- high efficiency and quality welding.
- **Standard digital V/A meter kit** – makes parameters visible and helps to improve weld quality.
- **Sturdy galvanised metal casing with air filter as option**- made to withstand tough corrosive and adverse environments.
- **Wide current and voltage range**- no compromise, multi-purpose applications.
- **ELP, ESAB LogicPump**- automatically starts water pump when a water-cooled gun is connected.
- **Idle mode**- power and noise efficient, cooling fan and pump work only when needed

Technical data

	Origo™ Mig 410	Origo™ Mig 510
Mains voltage, V, Hz	400-415 3~50 230/400-415/500 3~50 230/440-460 3~60	400-415 3~50 230/400-415 3~50 230/440-460 3~60
Fuse, slow, A	230V/25A - 400V/20A	230V/50A - 400V/35A
Mains cable, mm²	4x2.5	4x6
Permitted load at		
50% duty cycle, A/V	400 / 34	-
60% duty cycle, A/V	365 / 32	500 / 39
100% duty cycle, A/V	280 / 28	390 / 33.5
Setting range (DC), A/V	50 / 16.5 - 400 / 34	50 / 16.5 - 500 / 39
Open circuit voltage V	17-45	17-50
Open circuit power, W	360	440
with cooling unit, W	600	620
Power factor at maximum current	0.98	0.92
Efficiency at maximum current, %	71	82
Voltage steps	40	40
Inductance outlets	2	3
Dimensions l x w x h, mm	812 x 552 x 925	812 x 552 x 925
Weight, kg	144	214
with cooling unit	158	228
Operating temperature, °C	-10 till +40	-10 till +40
Enclosure class	IP 23	IP 23
Application classification	S	S



Ordering information

Origo™ Mig 410 (230/400-415/500V 50Hz ; 230/440-460V 60Hz)	0349 312 610
Origo™ Mig 410w (230/400-415/500V 50Hz ; 230/440-460V 60Hz)	0349 312 620
Origo™ Mig 410 (400-415V 50Hz)	0349 303 563
Origo™ Mig 410w (400-415V 50Hz)	0349 303 564
Origo™ Mig 510 (230/400-415/500V 50Hz ; 230/440-460V 60Hz)	0349 312 630
Origo™ Mig 510w (230/400-415/500V 50Hz ; 230/ 440-460V 60Hz)	0349 312 640
Origo™ Mig 510 (400-415V 50Hz)	0349 303 565
Origo™ Mig 510w (400-415V 50Hz)	0349 303 566
Air filter	0349 302 423
Cable holder	0349 303 362
Water flow guard	0349 302 251
Transformer for CO ₂ heater	0349 302 250
Stabilizer	0349 303 474
Reinforcer kit for counterbalance	0349 309 748

Delivery content: 5 m mains cable, wheels, 5m return cable with clamps, shelf for gas cylinder and a guide pin for the wire feeder, instruction manual.

Quality accessories for the quality welder
ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at www.esab.com or contact your local ESAB dealer.

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,

Connection cables

	400 Amp	500 Amp
Air 1,7 m	0469 836 880	0469 836 890
Air 5,0 m	0469 836 981	-
Air 10,0 m	0469 836 881	0469 836 891
Air 15,0 m	0469 836 882	0469 836 892
Air 25,0 m	0469 836 883	0469 836 893
Air 35,0 m	0469 836 884	0469 836 894
Water 1,7 m	0469 836 885	0469 836 895
Water 5,0 m	0469 836 983	-
Water 10,0 m	0469 836 886	0469 836 896
Water 15,0 m	0469 836 887	0469 836 897
Water 25,0 m	0469 836 888	0469 836 898
Water 35,0 m	0469 836 889	0469 836 899

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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