



Origo™ EDW 510 D , Origo™ EDW 610 D Heavy Duty Engine Driven Welders

Robust and powerful

Designed to with-stand toughest climate and working conditions. Whether your are welding on an off-shore platform or a pipeline in the desert, the Origo EDW 510 D and 610 D mobility and reliable performance will provide the most cost efficient solution to on-site welding.

The brushless synchronous three-phase welding generator requires a minimum of maintenance.

All electrical circuits are hardwired without need for any electronic PC boards.

Welding

Easy to operate with clear well designed controls. Welding power capacity optimized for coated electrodes from 2.0mm-6.0mm. High open circuit voltage gives an easy arc striking of all types of electrodes including basic and cellulosic electrodes. Optional polarity switch (610 D) shorten setting time when welding root runs with electrodes which require minus polarity. Volt-and amp. meters are available as options.

Arc gauging

Separate current outlet gives excellent characteristics for carbon arc gauging with electrodes up to 10mm (610 D).

Auxiliary power

Auxiliary power 110/220 V single phase provides power for electrical tools often needed for completing the job. Drilling, grinding, drying electrodes and lighting are a few examples. The auxiliary power can be used during welding.

Transport

Units are skid mounted, complete with central located eyelets for easy lifting (standard). Optional site tow is available for transport within the work site.

Warranty

ESAB offers three years warranty on the welding generator while the one year warranty on the engine is covered by Deutz world wide service network

Applications

- General fabrication and civil construction
- Repair and maintenance
- Power generation
- Pipelines



Origo™ EDW

Air cooled engine

The air cooled Deutz engine guarantees reliability, low maintenance and efficient operating in ambient temperatures up to +50°C. Esab engine watch system monitors the following:

- Low oil pressure
- High engine temperature
- Battery charge

This system is used to protect the engine, indicating fault conditions, automatically shutting down the engine and indicating the engine fault.

- **Designed for professional contractors**
- **Robust & long lasting design**
- **Welding range DC 60-450A (EDW 510 D)**
- **Welding range DC 40-600A (EDW 610 D)**
- **Auxiliary Power outlets 6.2 KVA, 220/110 V, 1-ph.**
- **Proven brushless generator techology**
- **No PCB required for welding current regulation**
- **Low maintenance**
- **Reliable air-cooled low rpm Deutz diesel engine**
- **Three years warranty on the welding generator**

Technical data

Origo EDWI		510 D	610 D
Welding generator		Brushless design	
Duty Cycle			
40%	A	450	575
60% duty cycle	A	400	530
100% duty cycle	A	300	500
Setting range (DC)	A	40-500	40-700
Open circuit voltage	V	75-92	75-92
Insulation class		H(180°C)	H(180°C)
Welding Current Range			
STEP I	A	40-145	40-90
STEP II	A	110-330	65-235
STEP III	A	150-500	130-700
Dimensions l x w x h	mm	1600X850X990	1600x850x990
Weight	kg	775	795
Enclosure protection		IP 23	IP 23
Working ambient temperature		-10 to +50°C	-10 to +50 °C
Auxiliary generator			
Max output	kVA	6,2	6,2
Voltage, 1-ph, 60Hz	V	110 / 220	110/220
Engine		Deutz F3L 912	Deutz F3L 912
Type		3-cylinder	3-cylinder
Fuel		Diesel	Diesel
Power at 1800 rpm		32.0kW	32.0kW
Cooling		Air	Air
Starting system, electrical	V	12	12
App. running time full tank at 100%		90ltr, 11 hours	90ltr, 11 hours

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, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

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.

Ordering information

Origo EDW 510 D	0700161884
Origo EDW 610 D	0700161885
Options	
Remote control, with 15m cable	0700161041
Spark arrestor NB040	0700161043
Polarity switch	0700161072
V/A-meter kit	0700161066
Earth rod	0700161042
110V Kit	0700161118
Hot start switch 92V/60-92V	0700161119
Emergency stop button	0700161120
2 wheel site trolley	0217600140
4 wheel highway trailer	0305200140
Maintenance	
Engine maintenance kit 2000h operation	0700161087
Accessories	
Flair 600 Arc gauging torch 600A	0468253880
PK 1 Quiver, 110V	0000515062
PK 1 Quiver, 230V	0000515064



ESAB reserves the right to alter specifications without prior notice
ESAB is approved according to ISO 9001:2000



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