



# Origo™ Mag C140/C150/C170/C200/C250

## Welding machines for everyone

The ideal welding machine for everyone who wants good equipment to do less complex welding jobs of high quality. The Origo™ Mag C140/C150/C170/C200/C250 are step regulated welding power sources for MIG/MAG welding. A built-in wire feeder and the low weight of the units make them perfect, practical solutions for farmers, repair shops and light production users.

### MIG/MAG welding

Origo™ Mag can be used with both conventional solid wire and self-shielding cored wire. It is designed for welding of steel, stainless steel and aluminium as well as for brazing.

Wire diameters from 0.6 mm up to 1.2 mm can be used depending on type of machine.

### Easy to use

The Power Smoothing Device™ improves welding when CO<sub>2</sub> or Ar/CO<sub>2</sub> gas mixture is used. The units are equipped with multi-step voltage switches and potentiometers for wire speed adjusting to enable easy setting of welding parameters.

It is possible to adjust burnback time and to set spot welding time in C170/C200/C250.

The units are fan-cooled and equipped with thermal overload protection.

As an option the Origo™ Mag C170/C200/C250 can be equipped with V/A digital meter and transformer for CO<sub>2</sub> heater.

### Power Smoothing Device™

Although Origo™ Mag C140/C150/C170/C200/C250 are 1-ph units, Power Smoothing Device™ gives them excellent welding performance in CO<sub>2</sub> and gas mixtures. Power Smoothing Device™ provide for a smooth welding current as for a 3-phase machine.



### Torch included

Each machine is equipped with a gas-cooled MXL™ Torch (MXL™ 150v, MXL™ 200, MXL™ 270). They have ergonomic handles.

They have spring loaded contact pins in the central connector except for MXL™ 150v that is delivered with 2,5 m and is connected directly to the power source.

Optimum cooling of the torches gives them extended life time of the swan necks and the wear parts. You can choose gas nozzles in 3 different versions, standard, straight and conical. This provide maximum flexibility and an optimum life time.

## Applications

- Auto-repair
- Light metal fabrication
- Transport
- Education
- Household and furniture
- Tack welding

- **Power Smoothing Device™** - excellent welding performance for single phase machines.
- **Easy change of polarity** - it may be used with both conventional solid wire and self-shielding cored wire.
- **Easy setting of welding parameters** - welding machines for everyone
- **MXL™ Torches** - designed to provide the utmost in convenience and versatility

## Technical data

	Origo™ Mag C140	Origo™ Mag C150	Origo™ Mag C170	Origo™ Mag C200	Origo™ Mag C250
Mains voltage , V, Hz	230 1ph 50/60	230 1ph 50/60	230 1ph 50/60	230 1ph 50/60	230 1ph 50/60
Fuse, A-slow	10	10*	16	16*	35
Auto fuse (MCB) EN 60898 typ D, A	16	16	16*	20*	32*
Permitted load at					
20% duty cycle, A	100	150	170	200	250
30% duty cycle, A	-	122	139	163	200
60% duty cycle, A	54	86	98	115	140
100% duty cycle, A	42	67	76	90	110
Setting range (DC) , A	35 - 130	35 - 150	30 - 170	30 - 200	40 - 250
Open circuit voltage , V	20,0 - 28,0	18,5 - 30,5	19,5 - 35,5	17,5 - 33	19,5 - 42,5
Open circuit power , W	90	100	145	240	200
Power factor at maximum current	0,92	0,91	0,90	0,83	0,92
Wire feed speed, m/min	2,0 - 14	2,0 - 14	1,0 - 17	1,0 - 17	1,9 - 19
Wire diameter, mm					
Fe, Ss	0,6 - 0,8	0,6 - 0,8	0,6 - 0,8	0,6 - 1,0	0,6 - 1,2
C	0,8	0,8	0,8	0,8 - 1,0	0,8 - 1,2
Al	-	-	1,0	1,0	1,0 - 1,2
CuSi	0,8	0,8	0,8 - 1,0	0,8 - 1,0	0,8 - 1,0
Burnback time, s	-	-	0,02 - 0,25 (adj.on the PCB)	0,02 - 0,25 (adj.on the PCB)	0 - 0,25
Spot welding, s	-	-	0,2 - 2,5	0,2 - 2,5	0,2 - 2,5
Voltage steps	4	7	8	12	12
Inductance outlets	1	1	1	1	1
Polarity change	YES	YES	YES	YES	YES
Dimensions l x w x h, mm	650 x 300 x 550	650 x 300 x 550	860 x 420 x 730	860 x 420 x 730	860 x 420 x 730
Weight, kg	25	37,5	59	68	94
Operating temperature, °C	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40
Enclosure class	IP 23	IP 23	IP 23	IP 23	IP 23
Application classification	S	S	S	S	S

\*since „time - current characteristics” of fuses are spread within some scatter band -in certain cases it may be necessary to reduce the actual top current duty cycle X[%] to some value within limits of 5-20% or to reduce accordingly maximum welding current.

### Wear parts

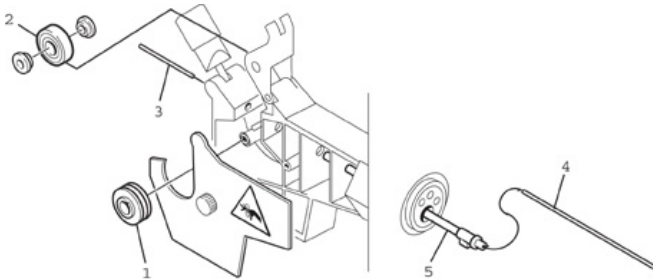
### Origo™ Mag C140/C150

Wire Ø mm	Wire type	1 Feed roller	2 Pressure roller	3 Inlet nozzle	4 Insert tube	5 Outlet nozzle	Groove type
0,6 / 0,8	Fe, Ss, C	469517-001	469475-880				V
	C=coiled wire						

### Wear parts

### Origo™ Mag C170/C200/C250

Wire Ø mm	Wire type	1 Feed roller	2 Pressure roller	3 Inlet nozzle	4 Insert tube	5 Outlet nozzle	Groove type
0,6 / 0,8	Fe, Ss, C	367556-001	455907-001	466074-001	455889-001	455886-001	V
0,8 / 1,0	Fe, Ss, C	367556-002	455907-001	466074-001	455889-001	455886-001	V
1,0 / 1,2	Fe, Ss, C	367556-003	455907-001	466074-001	455889-001	455886-001	V
1,0 / 1,2	Al	367556-004	455907-001	466074-001	455894-001	455885-001	U
	C=coiled wire						



### 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](http://www.esab.com) or contact your local ESAB dealer.

### Ordering information

Origo™ Mag C140 (230V 1 ph 50/60 Hz)	0349 306 220
Origo™ Mag C150 (230V 1 ph 50/60 Hz)	0349 306 532
Origo™ Mag C170 (230V 1 ph 50/60 Hz)	0349 305 236
Origo™ Mag C200 (230V 1 ph 50/60 Hz)	0349 306 560
Origo™ Mag C250 (230V 1 ph 50/60 Hz)	0349 305 238

Digital instrument	0349 302 598
Transformer for CO <sub>2</sub> heater (42V 50/60 Hz)	0349 302 250
Traction KIT (Origo™ Mag C140)	0349 309 073

### Delivery content:

- Origo™ Mag C140/C150; Welding torch MXL™ 150V 2,5 m (contact tip 0,8) assembled feed roller 0,6-0,8
- Origo™ Mag C170/C200; MXL™ 200 3 m (contact tip 0,8) assembled feed roller 0,6-0,8
- Origo™ Mag C250; MXL™ 270 3 m (contact tip 1,0) assembled feed roller 0,8-1,0
- All units; 3m mains cable with plug, 3m return cable with clamp, gas hose 1,5m, shelf for gas cylinder (except for Origo™ Mag C140), attachment chain for gas cylinder, instruction manual.



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