

# Fabricator EM 401i/501i

Rugged & reliable inverter



*Fabricator EM 501i with integrated cooling unit*

Fabricator are heavy duty inverter controlled power sources for MIG/MAG and MMA (Stick) welding. Built to withstand rugged use which makes it a perfect solution for industrial usage. Ideal for heavy industries using solid and flux-cored wires together with Fabricator Feed.

- Rugged and Reliable welding system for heavy application, 400 A or 500 A at 60% Duty Cycle
- Three variants, one 500 with integrated cooling unit and two 400 with and without cooling unit
- Energy savings with high power factor, high efficiency and low idle power
- Lower cost of operation. Delivers all the added benefits of an inverter technology at a similar price as a conventional transformer machine
- The machine is built in with integrated wide and large wheels and cylinder support to facilitate moving around the workshop. Also includes two side cable handling supports
- Wide voltage tolerance for stable welding output
- Variable inductance control for better arc performance
- IP23 use anywhere, for field and workshop applications

Visit [esab.com](http://esab.com) for more information.

## Industry

- Civil Construction
- Industrial and General Fabrication
- Repair and Maintenance



*Fabricator EM 501i with integrated cooling unit and Counterbalance Arm*

# Fabricator EM 401i/501i

<b>Specifications</b>		
Model	<b>EM 401i</b>	<b>EM 501i</b>
Mains Voltage	380 - 415 V, 3ph, ± 10%, 50/60 Hz	380 - 415 V, 3ph, ± 10%, 50/60 Hz
Welding Output, MIG/MAG	400 A @ 60% 310 A @ 100%	500 A @ 60% 390 A @ 100%
Welding Output, MMA	400 A @ 60% 310 A @ 100%	500 A @ 60% 390 A @ 100%
Setting Range, MIG/MAG	30 A / 15.5V – 400 A / 34 V	30 A / 15.5V – 500 A / 39 V
Setting Range, MMA	30 A / 21.2V – 400 A / 36 V	30 A / 21.2V – 500 A / 40 V
Wire Dimensions	0.8 – 1.2 mm	1.0 – 1.6 mm
Efficiency at Max Current	86 %	87 %
Power Factor Max Current	0.91	0.91
Energy Save Mode	< 35 W	< 35 W
Mains Cable Ø mm <sup>2</sup>	4 x 6	4 x 6
Operating Temperature	-10 to +40 °C	-10 to +40 °C
Dimensions L x W x H	1035 x 500 x 1015 mm	1035 x 500 x 1015 mm
Weight w/o cooling unit	102.0 kg	-
Weight w/ cooling unit w/o coolant	107.5 kg	111.5 kg
Weight w/ cooling unit & coolant	111.5 Kg	115.5 kg
Enclosure Class	IP23	IP23
Application Class	S	S
Insulation Class	H	H
Certification Mark	CE, EAC	CE, EAC
<b>Cooling Unit COOL 2F</b>		
Cooling Power	1 kW at 25°C ambient temperature	
Coolant Volume	4.5 l	
Maximum Water Flow	1.8 l/min	
<b>Fabricator Feed 304/304w</b>		
Wire Feed Speed	1.5 – 25.0 m/min	
Wire Spool Capacity	18 kg	
Max Spool Diameter	300 mm	
Wire Dimensions		
Mild Steel	0.8 – 1.6 mm	
Stainless Steel	0.8 – 1.6 mm	
Cored Wire	0.9 – 1.6 mm	
Dimensions	675 x 265 x 418 mm	
Weight – Fabricator Feed 304	13.9 kg	
Weight – Fabricator Feed 304w	14.2 kg	

<b>Ordering Information</b>	
Fabricator EM 501i with integrated cooling unit *	0446400882
Fabricator EM 401i with integrated cooling unit *	0446400883
Fabricator EM 401i *	0446400884
Fabricator Feed 304	0446401881
Fabricator Feed 304w	0446401882

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

# Fabricator EM 401i/501i

<b>Interconnection Cables</b>	
Interconnection Cables - 70mm <sup>2</sup> , Gas-Cooled, 2.0m	0459836880
Interconnection Cables - 70mm <sup>2</sup> , Gas-Cooled, 5.0m	0459836881
Interconnection Cables - 70mm <sup>2</sup> , Gas-Cooled, 10.0m	0459836882
Interconnection Cables - 70mm <sup>2</sup> , Gas-Cooled, 15.0m	0459836883
Interconnection Cables - 70mm <sup>2</sup> , Gas-Cooled, 25.0m	0459836884
Interconnection Cables - 70mm <sup>2</sup> , Water-Cooled, 2.0m	0459836890
Interconnection Cables - 70mm <sup>2</sup> , Water-Cooled, 5.0m	0459836891
Interconnection Cables - 70mm <sup>2</sup> , Water-Cooled, 10.0m	0459836892
Interconnection Cables - 70mm <sup>2</sup> , Water-Cooled, 15.0m	0459836893
Interconnection Cables - 70mm <sup>2</sup> , Water-Cooled, 25.0m	0459836894
Interconnection Cables - 95mm <sup>2</sup> , Water-Cooled, 2.0m	0459836990
Interconnection Cables - 95mm <sup>2</sup> , Water-Cooled, 5.0m	0459836991
Interconnection Cables - 95mm <sup>2</sup> , Water-Cooled, 10.0m	0459836992
Interconnection Cables - 95mm <sup>2</sup> , Water-Cooled, 15.0m	0459836993
Interconnection Cables - 95mm <sup>2</sup> , Water-Cooled, 25.0m	0459836994

<b>Torches</b>	
MXL 341 Gas-Cooled Torch with Euro connection, 3 m	0700025240
MXL 341 Gas-Cooled Torch with Euro connection, 4 m	0700025241
MXL 341 Gas-cooled Torch with Euro Connection, 5 m	0700025242
MXL 411W Water-cooled Torch with Euro Connection, 3 m	0700025250
MXL 411W Water-cooled Torch with Euro Connection, 4 m	0700025251
MXL 411W Water-cooled Torch with Euro Connection, 5 m	0700025252
MXL 511W Water-cooled Torch with Euro Connection, 3 m	0700025260
MXL 511W Water-cooled Torch with Euro Connection, 4 m	0700025261
MXL 511W Water-cooled Torch with Euro Connection, 5 m	0700025262

<b>Options &amp; Accessories</b>	
Wheel Kit, front wheels turn	0458707880
Wheel Kit, all wheels turn	0458707881
Strain Relief for Welding Torch	0457341881
Strain Relief bracket for Interconnection Cable set	0459234880
Quick Connector Marathon Pac™	F102440880
Counterbalance Arm	0458705880
Coolant 10 l (3 gal)	0465720002

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