

# 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

Interconnection Cables	
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

Torches	
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

Options & Accessories	
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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