



**INDUSTRIAL
PERFORMANCE FOR ALL.**

FABRICATOR

Maximise your output and save energy with
a reliable, efficient, and affordable inverter.

As a welding operator, your work can be unpredictable. But you cannot afford to tolerate unpredictability when it comes to your welding fleet. At ESAB, we have been working hard to create a reliable and user-friendly welding machine that saves our customers time and money. Meet Fabricator: the powerful, efficient, and affordable industrial welding workstation designed for maximum mobility around your shop – so your production never misses a step.

BENEFITS AND FEATURES.

RELIABLE INDUSTRIAL PERFORMANCE.

Fabricator's inverter-based technology allows for better power efficiency, easier operation, and better overall utility for heavy-industrial welding applications.

- Designed for heavy-industrial MIG, flux cored, and stick applications
- Welding output up to 400 A and 500 A at 60% duty cycle
- Optimised welding performance for different wire sizes (0.8–1.6 mm) and gases means you can achieve high-quality welds even with pure CO₂ shielding gas
- Built with a 4-wheel-drive feeding system for wire feed speeds up to 25 m/min.
- Available with or without integrated cooling unit
- Proven industrial-grade IP23 housing for indoor and outdoor use
- Easy-to-open side panel for preventative maintenance



IMPRESSIVE ENERGY EFFICIENCY.

With 87% energy efficiency and low idle, Fabricator provides more energy savings by consuming less power – saving you €600* or more in energy costs per year.

*Estimated for two shifts welding 350 A at 40% duty cycle compared to standard transformer technology.

Fabricator complies with new European regulations for eco-friendly welding equipment, helping you save on energy costs with a power source efficiency greater than 85% and idle power below 50 W.



**POWER
EFFICIENCY**



EASY TO USE AND ADJUST.

Fabricator is simple to operate, containing only the settings and functions needed to make welding easy and understandable.

- Quickly and easily set voltage and wire feed speed remotely in the wire feeder

DESIGNED FOR STABLE MOBILITY.

Safely move Fabricator from one location to the next. The fully mobile welding workstation navigates easily around stationary workpieces in your shop.

- Easily load and unload with low-profile cylinder tray and chain-locking mechanism to keep cylinder secure
- Large, wide wheels ensure stable movement around the shop
- Compatible with ESAB counterbalance device – no extra accessories needed
- Compact design with cable connectors located on the back of the machine
- Cable holders on both sides of the unit for organised cables that stay out of your way
- Crane-safe lifting handles – no special accessories needed



SUPERIOR OVERALL VALUE.

Fabricator brings you all the added benefits of inverter technology, but with a lower cost of operation when compared to conventional transformer welding machines.



SPECIFICATIONS AND ORDERING INFORMATION.

SPECIFICATIONS		
Power Source	Fabricator EM 401i	Fabricator EM 501i
Main Voltage	380–415 V, 3ph, ±10%, 50/60 Hz	380–415 V, 3ph, ±10%, 50/60 Hz
Welding Output, MIG/MAG	400 A at 60%; 310 A at 100%	500 A at 60%; 390 A at 100%
Setting Range, MIG/MAG	30 A / 15.5 V–400 A / 34.0 V	30 A / 15.5 V–500 A / 39.0 V
Wire Dimensions	0.8–1.2 mm	1.0–1.6 mm
Operating Temperature	-10°C to +40°C	-10°C to +40°C
Dimensions (L x W x H)	1,035 x 500 x 1,015 mm	1,035 x 500 x 1,015 mm
Weight without Cooling Unit	102.0 kg	–
Weight with Cooling Unit (without Coolant)	107.5 kg	111.5 kg
Enclosure Class	IP23	IP23
Efficiency at Maximum Current (%)	86%	87%
Energy Save Mode	< 35 W	< 35 W
Cooling Unit	COOL 2F	
Cooling Power	1 kW at 25°C ambient temperature	
Coolant Volume and Max Flow	4.5 L and 1.8 L/min.	
Wire Feeder	Fabricator Feed 304	Fabricator Feed 304w
Drive System and Wire Feed Speed	4-wheel drive; 1.5–25 m/min.	4-wheel drive; 1.5–25 m/min.
Wire Spool Capacity/Diameter	18 kg/300 mm	18 kg/300 mm
Wire Dimensions	0.8–1.6 mm	0.8–1.6 mm
Dimensions (L x W x H)	675 x 265 x 418 mm	675 x 265 x 418 mm
Water Cooling	–	Yes
Weight	13.9 kg	14.2 kg

ORDERING INFORMATION			
Power Source	Ordering Number		
Fabricator EM 501i with Integrated Cooling Unit	0446400882		
Fabricator EM 401i with Integrated Cooling Unit	0446400883		
Fabricator EM 401i	0446400884		
Feeder			
Fabricator Feed 304	0446401881		
Fabricator Feed 304w	0446401882		
Interconnection Cable ¹	400 A – Gas	400 A – Water	500 A – Water
2.0 m	0459836880	0459836890	0459836990
5.0 m	0459836881	0459836891	0459836991
10.0 m	0459836882	0459836892	0459836992
Torch	3 m	4 m	5 m
MXL 341, Gas Cooled	0700025240	0700025241	0700025242
MXL 411w, Water Cooled	0700025250	0700025251	0700025252
MXL 511w, Water Cooled	0700025260	0700025261	0700025262

¹Other cable lengths available. See more details in the fact sheet and at esab.com.

Choose Fabricator: the more reliable and efficient industrial welding solution. Contact your ESAB distributor to order a Fabricator package today, and visit esab.com/fabricator to learn more.

CUSTOMISE FABRICATOR WITH ACCESSORIES FOR ANY APPLICATION:

- **Wire feeder counterbalance device** for better reach and ergonomics when welding large objects
- **Lifting eye** to mount the wire feeder above your workpiece, enabling a more productive setup with a wider reach
- **Marathon Pac™ connectors** attach the wire feeder to bulk wire for streamlined high-volume production
- **Feeder wheel kit** improves the mobility of the feeder around the workpiece

OPTIONS & ACCESSORIES	
Model	Ordering Number
Wheel Kit, Front Wheels Turn	0458707880
Wheel Kit, All Wheels Turn	0458707881
Lifting Eye	0458706880
Strain Relief for Welding Torch	0457341881
Strain Relief Bracket for Interconnection Cable Set	0459234880
Quick Connector Marathon Pac	F102440880
Counterbalance Arm	0458705880

UNRIVALLED SERVICE AND SUPPORT.

Fabricator, like every ESAB machine, is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with maintenance and upgrading of machines.

For more information on Fabricator, visit esab.com/fabricator.

3-YEAR WARRANTY.

ESAB's industry-leading service and support means that if customers do need help, they will be protected by the most comprehensive warranty in the business.



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