## // ARC WELDING EQUIPMENT

## Fabricator EM 401i \& 501i <br> Rugged \& reliable inverter



## (4) esab.com/fabricator

■ 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 and with variable inductance control for better arc performance
- IP23 use anywhere, for field and workshop applications

| Specifications |  | Fabricator EM 401i | Fabricator EM 501i |
| :---: | :---: | :---: | :---: |
| Input Voltage |  | $380-415 \mathrm{~V} 3 \mathrm{ph} \pm 10 \% 50 / 60 \mathrm{~Hz}$ | $380-415 \mathrm{~V} 3 \mathrm{ph} \pm 10 \% 50 / 60 \mathrm{~Hz}$ |
| Welding Output MIG/MAG (GMAW), MMA (SMAW) |  | 400 A @ 60\% duty cycle 310 A @ 100\% duty cycle | 500 A @ 60\% duty cycle 390 A @ 100\% duty cycle |
| Settings range DC | GMAW FCAW SMAW | $\begin{aligned} & 30-400 \mathrm{~A}, 15.5-34 \mathrm{~V} \\ & 30-400 \mathrm{~A}, 21.2-36 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 30-500 \mathrm{~A}, 15.5-39 \mathrm{~V} \\ & 30-500 \mathrm{~A}, 21.2-40 \mathrm{~V} \end{aligned}$ |
| Energy Saving Mode |  | $<35 \mathrm{~W}$ | $<35 \mathrm{~W}$ |
| Mains Cable |  | $4 \times 6 \emptyset \mathrm{~mm}^{2}$ | $4 \times 6 \emptyset \mathrm{~mm}^{2}$ |
| Power Factor at Maximum Current MIG/MAG |  | 0.91 | 0.91 |
| Efficiency at Maximum Current MIG/MAG |  | 86\% | 87\% |
| Operating Temperature |  | -10 to $40^{\circ} \mathrm{C}$ | -10 to $40^{\circ} \mathrm{C}$ |
| Enclosure Class |  | IP 23 | IP 23 |
| Application Class |  | S | S |
| Certification Mark |  | CE, EAC | CE, EAC |
| Dimensions, L x W x H w/ cooling unit |  | $1,035 \times 500 \times 1,015 \mathrm{~mm}$ | $1,035 \times 500 \times 1,015 \mathrm{~mm}$ |
| Weight |  | 102 kg | - |
| Weight w/ cooling unit (incl. coolant) |  | 107.5 (111.5) kg | 111.5 (115.5) kg |


| Specifications | COOL 2F Cooling Unit |
| :--- | :--- |
| Cooling Power | 1 kW at $25^{\circ} \mathrm{C}$ ambient temperature |
| Coolant Volume and Max Flow | 4.5 L and $1.8 \mathrm{~L} / \mathrm{min}$ |


| Specifications | Fabricator Feed $\mathbf{3 0 4}$ | Fabricator Feed 304w |
| :--- | :--- | :--- |
| Drive System and Wire Feed Speed | 4-wheel drive; $1.5-25 \mathrm{~m} / \mathrm{min}$ | 4 -wheel drive; $1.5-25 \mathrm{~m} / \mathrm{min}$ |
| Wire Spool Capacity/Diameter | $18 \mathrm{~kg} / 300 \mathrm{~mm}$ | $18 \mathrm{~kg} / 300 \mathrm{~mm}$ |
| Wire Dimensions | $0.8-1.6 \mathrm{~mm}$ | $0.8-1.6 \mathrm{~mm}$ |
| Dimensions, L x W x H | $675 \times 265 \times 418 \mathrm{~mm}$ | $675 \times 265 \times 418 \mathrm{~mm}$ |
| Water Cooling | - | Yes |
| Weight | 13.9 kg | 14.2 kg |

## Fabricator EM 401i \& 501i

| Ordering Information |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Fabricator EM 501i with integrated cooling unit | 0446400882 | Fabricator EM 401i | 0446400884 |  |  |  |  |  |  |
| Fabricator EM 401i with integrated cooling unit | 0446400883 |  |  |  |  |  |  |  |  |

Delivery includes power source, 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.

| Options \& Accessories |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fabricator Feed 304 |  | 0446401881 | Strain Relief bracket for Interconnection Cable set |  | 0459234880 |
| Fabricator Feed 304w |  | 0446401882 | Quick Connector Marathon Pac ${ }^{\text {TM }}$ |  | F102440880 |
| Wheel Kit, front wheels turn |  | 0458707880 | Counterbalance Arm |  | 0458705880 |
| Wheel Kit,all wheels turn |  | 0458707881 | Coolant10 I (3 gal) |  | 0465720002 |
| Strain Relief for Welding Torch |  | 0457341881 |  |  |  |
| MIG Torches | 3 m |  | 4 m | 5 m |  |
| MXL 341 with Euro Connection | 0700025240 |  | 0700025241 | 0700025242 |  |
| MXL 411W with Euro Connection | 0700025250 |  | 0700025251 | 0700025252 |  |
| MXL 511W with Euro Connection | 0700025260 |  | 0700025261 | 0700025262 |  |



Fabricator EM 501i with integratedcooling unit and Counterbalance Arm

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 .

