



Serie ML-69 B - Saldatrice laser a fibra 2000 W - 5000 W

La serie ML-69 B offre il vantaggio di un'eccellente efficienza di oscillazione laser, di un risparmio energetico e di costi operativi ridotti, punti di forza per una produzione rispettosa dell'ambiente. Le saldatrici laser a fibra Serie ML-69 B che applicano la tecnica CW (Continuous Wave). Le saldatrici laser sono disponibili con potenze di 2, 3, 4 e 5 kW.

Specifiche Serie ML-69 B - Saldatrice laser a fibra 2000 W - 5000 W

- Uscita nominale massima: 2000 W - 5000 W
- Azionamento in onda continua (CW)
- Nuclei di fibra da 200 micron per ottenere un'alta concentrazione di energia per la saldatura ad alta velocità di metalli difficili
- Facile da usare grazie al touch screen
- Programmazione della forma degli impulsi, controllo di modulazione e monitoraggio dello stato di funzionamento
- I diodi laser a lunga durata garantiscono un'elevata affidabilità

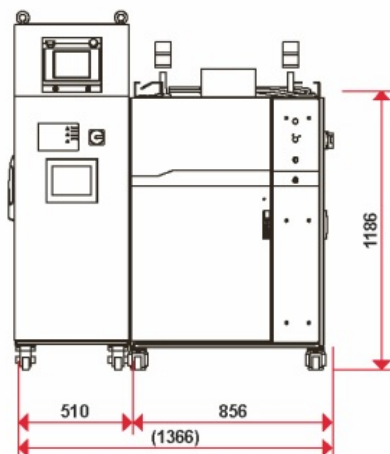
Specifications Serie ML-69 B - Saldatrice laser a fibra 2000 W - 5000 W 1/2

Modello	ML-6920 A	ML-6930 A	ML-6940 A
Uscita nominale max	2000 W	3000 W	4000 W
Potenza di picco max	2000 W	3000 W	4000 W
Ripetizione modalità uscita	Standard: 0.1 - 500.0 msec (0.1 msec.incremental) - Switch to: 0.05 - 50.00 msec. (0.05 msec. incremental)	Standard: 0.1 - 500.0 msec (0.1 msec.incremental) - Switch to: 0.05 - 50.00 msec. (0.05 msec. incremental)	Standard: 0.1 - 500.0 msec (0.1 msec.incremental) - Switch to: 0.05 - 50.00 msec. (0.05 msec. incremental)
Cw modalità uscita	0.01 - 100.00 sec. (0.01 sec. incremental) - 1 - 10000 sec. (1 sec. incremental)	0.01 - 100.00 sec. (0.01 sec. incremental) - 1 - 10000 sec. (1 sec. incremental)	0.01 - 100.00 sec. (0.01 sec. incremental) - 1 - 10000 sec. (1 sec. incremental)
Velocità di ripetizione impulso	1 - 5000 pps	1 - 5000 pps	1 - 5000 pps
Modulazione	1 - 5000 Hz (sine wave, triangle wave, rectangular wave)	1 - 5000 Hz (sine wave, triangle wave, rectangular wave)	1 - 5000 Hz (sine wave, triangle wave, rectangular wave)
Wavelength	1070 - 1080 nm	1070 - 1080 nm	1070 - 1080 nm
Posizionamento luce guida	Built-in red-colored visual laser (Class 2M)	Built-in red-colored visual laser (Class 2M)	Built-in red-colored visual laser (Class 2M)
Stabilità uscita	+/- 2% or below @maximum rated output	+/- 2% or below @maximum rated output	+/- 2% or below @maximum rated output
Ottica	Optical fiber / Dual time sharing (optional)	Optical fiber / Dual time sharing (optional)	Optical fiber / Dual time sharing (optional)
Fibre consegna	200 or 300 micron fiber cores. Connectors QBH both input and output side. Standard lengths 10 and 30 meters. Other fiber core diameters, connector types and fiber lengths available upon request	200 or 300 micron fiber cores. Connectors QBH both input and output side. Standard lengths 10 and 30 meters. Other fiber core diameters, connector types and fiber lengths available upon request	200 or 300 micron fiber cores. Connectors QBH both input and output side. Standard lengths 10 and 30 meters. Other fiber core diameters, connector types and fiber lengths available upon request
Numero di programmi	256	256	256
Misurazione	Measure and display power (W)	Measure and display power (W)	Measure and display power (W)
Contatore totale	9 digits	9 digits	9 digits
Contatore tempo Ld	7 digits	7 digits	7 digits
Contatore tempo di processo	7 digits	7 digits	7 digits
Assorbimento (compreso assorbimento raffreddamento (14,7 kw))	Max. 24.7 kW	Max. 29.7 kW	Max. 30.7 kW
Raffreddamento	Water cooled	Water cooled	Water cooled
Sorgente pompa	Laser Diode	Laser Diode	Laser Diode
Temperatura di funzionamento	10 - 40 °C	10 - 40 °C	10 - 40 °C
Massa (compresa unità di controllo)	720 kg	760 kg	790 kg
Dimensions HxWxD	1775 mm x 2050 mm x 1081 mm	1775 mm x 2050 mm x 1081 mm	1775 mm x 2050 mm x 1081 mm

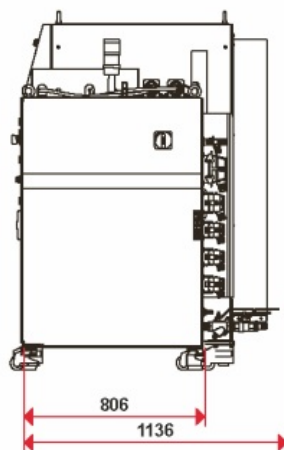
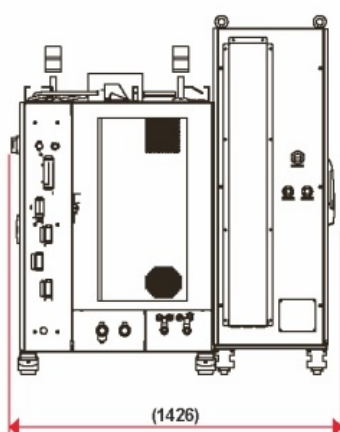
Specifications Serie ML-69 B - Saldatrice laser a fibra 2000 W - 5000 W 2/2

Modello	ML-6950 A
Uscita nominale max	5000 W
Potenza di picco max	5000 W
Ripetizione modalità uscita	Standard: 0.1 - 500.0 msec (0.1 msec.incremental) - Switch to: 0.05 - 50.00 msec. (0.05 msec. incremental)
Cw modalità uscita	0.01 - 100.00 sec. (0.01 sec. incremental) - 1 - 10000 sec. (1 sec. incremental)
Velocità di ripetizione impulso	1 - 5000 pps
Modulazione	1 - 5000 Hz (sine wave, triangle wave, rectangular wave)
Wavelength	1070 - 1080 nm
Posizionamento luce guida	Built-in red-colored visual laser (Class 2M)
Stabilità uscita	+/- 2% or below @maximum rated output
Ottica	Optical fiber / Dual time sharing (optional)
Fibre consegna	200 or 300 micron fiber cores. Connectors QBH both input and output side. Standard lengths 10 and 30 meters. Other fiber core diameters, connector types and fiber lengths available upon request
Numero di programmi	256
Misurazione	Measure and display power (W)
Contatore totale	9 digits
Contatore tempo Ld	7 digits
Contatore tempo di processo	
Assorbimento (compreso assorbimento raffreddamento (14,7 kw))	Max. 44.7 kW Cooling
Raffreddamento	Water cooled
Sorgente pompa	Laser Diode
Temperatura di funzionamento	10 - 40 °C
Massa (compresa unità di controllo)	900 kg
Dimensions HxWxD	1775 mm x 2050 mm x 1081 mm

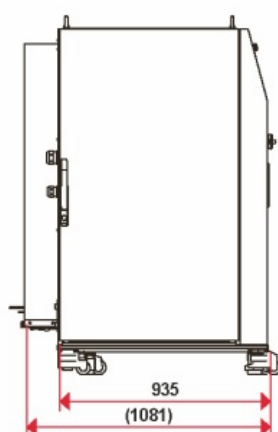
Drawings Serie ML-69 B - Saldatrice laser a fibra 2000 W - 5000 W



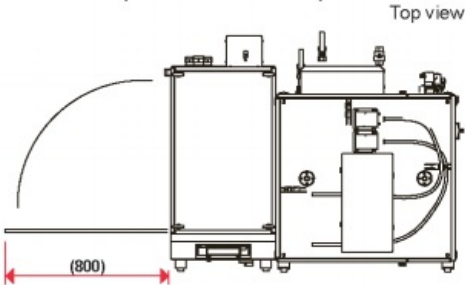
Rear view



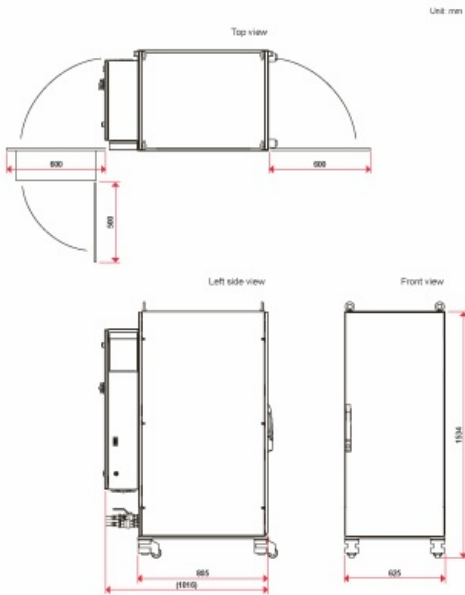
Left side view



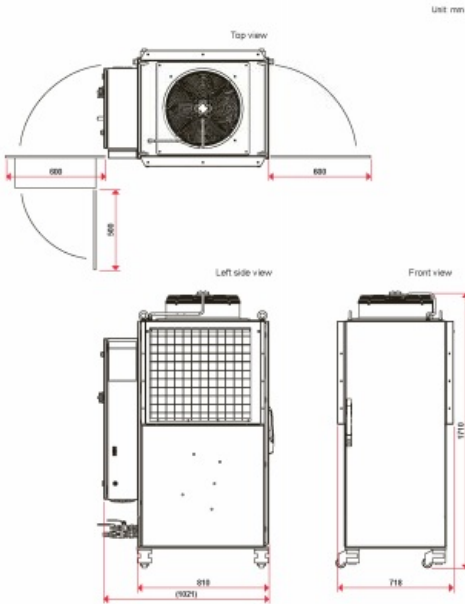
Main unit (1 to 2 deliveries)



Chiller cooler (LC 170.01-W.3.5/6)



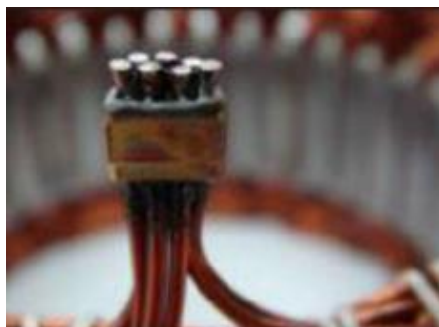
Chiller cooler (LC 170.01-A.3.5/6)



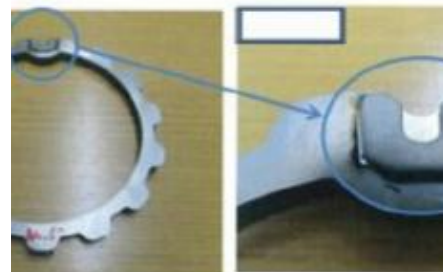
Product applications Serie ML-69 B - Saldatrice laser a fibra 2000 W - 5000 W



Fiber laser welding of stainless steel



Fiber laser welding of gear parts



Turbocharger components

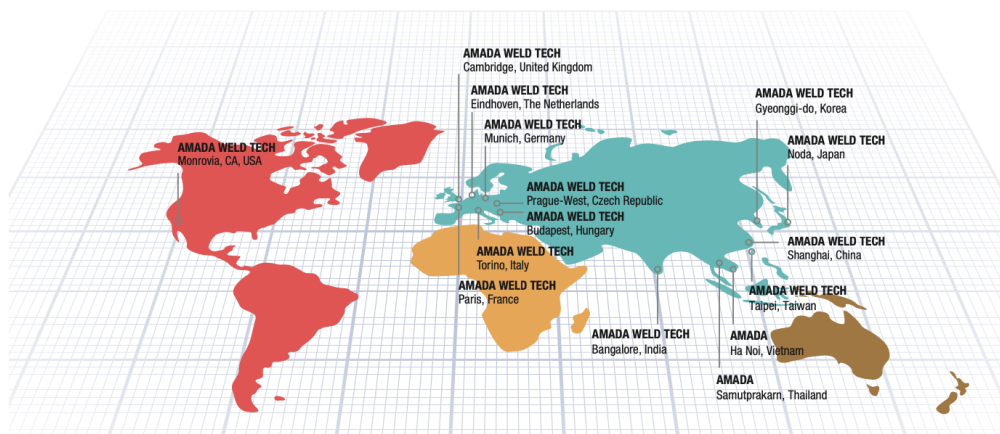
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