

# Flash



The series of LASER-welders FLASH offers a range of LASER-sources with optical fiber, integrable into production processes requiring a high degree of speed and automation.

Reference point of the goldsmith sector for chain welding and compatible with all machines for chain production, they guarantee uniformity and high quality of welding even at high shooting frequencies.



- 1 Intuitive operator interface with 5.7" color touch-screen display;
- 2 Automatic limitation of the power delivered according to the set fiber;
- 3 USB for firmware updates and diagnosis of critical issues in real time;

- 4 Optical fibers from 200 to 1000 microns; Fiber with vertical connection for protection from dust, oil, and pollutants;
- 5 Optional system that allows monitoring the energy delivered.

### ACCESSORIES

- Focuser of 50 or 70 mm, with round spot or oval spot, straight or 90°;
- Micrometric support for focuser.

The FLASH 35, FLASH 50, and FLASH 80 models are available with either single-fiber and dual-fiber output. The double fiber allows to connect a single FLASH to two chain machines at the same time, while still guaranteeing separate management and delivery of maximum power to each fiber, so optimizing costs and space.

### TECHNICAL DATA

MODEL	FLASH 35	FLASH 35 DF	FLASH 50	FLASH 50 DF	FLASH 80	FLASH 80 DF
LASER CRYSTAL: Nd:YAG@1064 nm	Ø 5 mm	Ø 5 mm x 2	Ø 6,3 mm	Ø 6,3 mm x 2	Ø 7 mm	Ø 7 mm x 2
PULSE-POWER @ 3 ms	10 J	10 + 10 J	18 J	18 + 18 J	20 J	20 + 20 J
MAX PULSE-POWER	25 J (3)	25 J (3)	30 J (3)	30 J (3)	40 J (3)	40 J (3)
PEAK-POWER	3,6 kW	3,6 kW	6 kW	6 kW	7,5 kW	7,5 kW
AVERAGE POWER	40 W	40 + 40 W	50 W	50 + 50 W	80 W	80 + 80 W
PULSE DURATION	0,5 - 25 ms	0,5 - 25 ms	0,5 - 25 ms	0,5 - 25 ms	0,5 - 25 ms	0,5 - 25 ms
FREQUENCY OF REPETITION	0 - 20 Hz	0 - 20 Hz	0 - 20 Hz	0 - 20 Hz	0 - 20 Hz	0 - 20 Hz
FIBER SIZE	200 - 400 µm	200 - 400 µm	400 - 600 µm	400 - 600 µm	600 - 800 µm	600 - 800 µm
POWER SUPPLY	Single - phase 230 VAC±10%, 50/60Hz					
WEIGHT	70 kg	80 kg	75 kg	80 kg	80 kg	



### CONSTANT POWER THANKS TO THE AUTOTEST

Self-test system for monitoring the shooting power, with on-screen warnings in the event of drops or power peaks, for greater control to the quality of the welding and reduction of waste in production.



### COOLING SYSTEM LIQUID

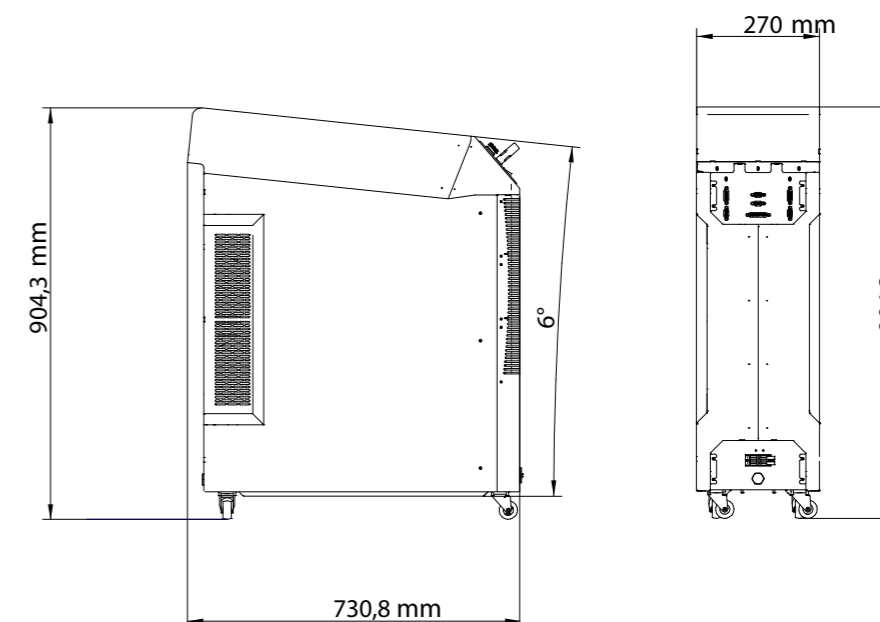
Liquid cooling system with double circuit (two pumps and two radiators), with liquid cooled electronics, for greater efficiency even for 24/7 work cycles.



### PROGRAMMING OF 4 TYPES OF SHOOTING

Possibility of programming up to 4 different types of shooting in sequence, for processes requiring differentiated sequential welding.

### DIMENSIONS



### TECHNICAL DATA

MODEL	FLASH 130	FLASH 250
LASER CRYSTAL: Nd:YAG @ 1064 nm	Ø 7 mm x 2	Ø 7 mm x 2
PULSE-POWER @ 3 ms	40 J	40 J
MAX PULSE-POWER	80 J (3)	80 J (3)
PEAK-POWER	12 kW	12 kW
AVERAGE POWER	130 W	250 W
PULSE DURATION	0,5 - 25 ms	0,5 - 25 ms
FREQUENCY OF REPETITION	0 - 20 Hz	0 - 40 Hz
FIBER SIZE	600 - 800 µm	800 - 1000 µm
POWER SUPPLY	Single - phase 230 VAC±10%, 50/60Hz	Three - phase 400 VAC±10%, 50/60Hz
WEIGHT	80 Kg	85 kg

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