

FLASH

The perfect solution for chain production

The Flash family of welding machines offers a range of **fiber-optic laser sources** that can be integrated into production processes that require a **high degree of automation**. Compatible with all chain production machines, the Flash guarantees **uniformity and high welding quality even at high frequencies**.



LIQUID COOLING SYSTEM

Liquid cooling system with dual circuit and liquid-cooled electronics, for **24/7 continuous duty cycles**.



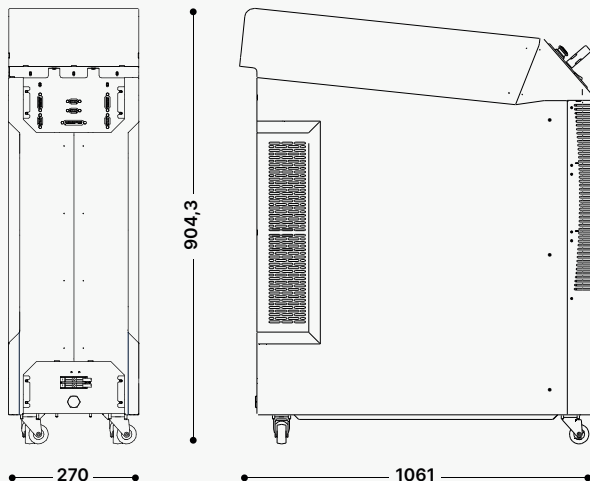
PROGRAMMING SHOTS

Possibility of programming up to **4 different types of shots in sequence**.



CONTROLLED POWER

Self-test system for power monitoring, which guarantees greater control over the quality of the weld.



*dimensions in mm

Discover all our machines, stay connected!



REQUEST A QUOTE

sales@orotig.com

more information on orotig.com

FEATURES

MADE IN ITALY

Intuitive interface

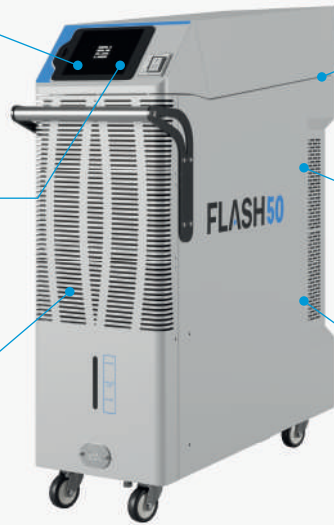
5.7" color easy to use touch screen display.

Automatic limitation

Automatic power limitation delivered depending on the set fiber.

Monitoring delivered power

Optional system that allows monitoring of the delivered power.



Real time updates

USB for firmware updates and diagnosis of critical issues in real time.

Optical fibers

Optical fibers from 200 to 1000 microns.

Vertical fiber

Fibers with vertical connection to protect from dust, oil, and pollutants.

Flash series laser welders can simultaneously handle 2 fibers of different diameter and length with a single laser generator, and can weld chains of different thicknesses and shapes.

Available accessories

Micrometric holder for the focuser; 50 or 70 mm focaliser (round/oval, straight/90° spot).

TECHNICAL DATA

	Flash 35	Flash 50	Flash 80	Flash 130
CRYSTAL TYPE		Nd:YAG @ 1064		Nd:YAG @ 1064 [x 2]
PULSE POWER	25 J	30 J	40 J	80 J
PULSE DURATION	0.5 - 25 ms	0.5 - 25 ms	0.5 - 25 ms	0.5 - 25 ms
PEAK PULSE POWER	3.6 kW	6 kW	7.5 kW	12 kW
AVERAGE POWER	40 W	50 W	80 W	130 W
PULSE FREQUENCY	0 - 20 Hz	0 - 20 Hz	0 - 20 Hz	0 - 40 Hz
ELECTRICAL	230 VAC ± 10%, 1+N ph, 50/60 Hz, 1.8 kW (F 35) / 2.3 kW (F 50-F 80) / 3.8 kW (F 130)			
FIBER DIAMETER (3 m LENGHT)	200 - 400 µm	400 - 600 µm	600 - 800 µm	800 - 1000 µm
COOLING SYSTEM	Forced air with double circuit, 8 L liquid and double radiator			
WEIGHT	70 Kg	75 Kg	80 Kg	80 Kg
	Flash 35 [DF]	Flash 50 [DF]	Flash 80 [DF]	Flash 300
CRYSTAL TYPE		Nd:YAG @ 1064 [x 2]		
PULSE POWER	25 J	30 J	40 J	80 J
PULSE DURATION	0.5 - 25 ms	0.5 - 25 ms	0.5 - 25 ms	0.5 - 25 ms
PEAK PULSE POWER	3.6 kW	6 kW	7.5 kW	12 kW
AVERAGE POWER	40 [+ 40 W]	50 [+ 50 W]	80 [+ 80 W]	130 W
PULSE FREQUENCY	0 - 20 Hz	0 - 20 Hz	0 - 20 Hz	0 - 40 Hz
ELECTRICAL	230 VAC ± 10%, 1P + N + PE, 50/60 Hz		400 VAC ± 10%, 3+N ph, 50/60 Hz	
FIBER DIAMETER (3 m LENGHT)	200 - 400 µm	400 - 600 µm	600 - 800 µm	800 - 1000 µm
COOLING SYSTEM	Forced air with double circuit, 8 L liquid and double radiator			
WEIGHT	80 Kg	80 Kg	80 Kg	80 Kg