

MANFREDI



NEW
GALILEO
130

YOUR SUCCESS
IS OUR GOAL

GALILEO laser welding

- + 130 JOULE**
effective power, concentrated in a compact bench unit ideal to weld any type of alloy (including titanium) with maximum precision. Integrated cooling circuit. Plug and play installation system, fast and easy. Quickly ready to use. Compact dimensions: suitable to be installed on any laboratory bench. High strength and reliability, maintenance free. Working chamber design based on the goldsmith's needs.
- + 50 WELDING** programs.
- + STEREOMICROSCOPE**
with 10X binoculars, equipped with optical protection against UV and laser radiations.
- + ARGON GAS**
essential for titanium welding. Easy to connect through fast connection on the rear side of the equipment.
- + SOFTWARE** upgrade through USB.
- + PULSE SHAPING**
software allowing the goldsmith to design the own pulse shape, to furtherly improve the quality of the welding. Thanks to this new control system, it's possible to obtain incomparable aesthetic results.
- + SLEEP MODE**
system allowing to save energy, thus avoiding unnecessary waste and increasing to the most the equipment components' life.
- + LIGHTING**
through 3 cold light led panels to completely envelop the object with no-shadow areas, to optimize visibility and increase the precision of welding.
- + METAL FRAME**
for a higher resistance and a longer duration.



Via Valpellice, 72
10060 San Secondo di Pinerolo (TO)
ITALY
P.IVA 08130670014

Tel. +39 0121.50.15.61
Fax +39 0121.50.17.19

info@group-rs.com

Technical data	Galileo
Laser source	Nd:YAG (1064 nm)
Pulse energy max. (J)	130
Average Power (W)	100
Peak power (kW)	10
Pulse width (ms)	0.5 - 20 with steps of 0,5
Spot diameter (mm)	0.2 - 2.0 automatic regulation with steps of 0.1
Pulse frequency	Single shot or up to 20 pulse/sec dynamically controlled (1-20 Hz)
Cooling circuit	Integrated air-to-water with automatic sleep mode and deionizer filter
Fumes suction	Integrated
Protection Argon supply	Injection with flexible nozzle, electronically controlled. Possibility to regulate intensity of the flux
Compressed air gun	Internal mobile nozzle for air cooling
Aiming system	Webbed eyepiece + laser pin
Microscope	Acromatic stereomicroscope, focal 120mm. Optical protection against UV and laser radiations.
Working area lighting	Cold light source (led)
Pulse shaping	20 standard shapes + 10 shapes which can be programmable by the user. Custom shapes completely adjustable throughout the graphic display of the machine
Pulse filling	With duty cycle adjustable by the operator
Parameters setting	Electronically, throughout a joystick placed into the working chamber. All the working parameters are shown on a wide colorful graphic display
Programs	50 programs
Display	Colorful graphic display 5,7"
Autodiagnosis System	Automatic with warnings on display
Power Supply (V)	230V 50/60Hz, 10A
Videocamera + LCD screen	Optional: videocamera on trinocular tube + LCD flat screen
PC connection	USB
Size (mm)	500 (W) x 515 (H) x 660 (D)
Weight (kg)	65