

# Laser RR-Writer



The LASER-marker is a tool becoming almost indispensable to have in both the jewelry and industrial sectors. It is particularly useful for the marking of texts, logos, designs and graphic patterns.

From serial numbering to photo engraving, the LASER-marker is perfect for customizing metallic objects or precious alloys.

- An integrated video camera facilitates the viewing of the LASER-marking area, in order to position pieces better and to ensure total control during the marking phase.
- An adjustable Z-axis facilitates the focusing of pieces in the marking area, thanks to the aid of two high clarity pilot diode-LASERS.
- Powerful enough to cut up to 0.8-mm thick metal plates.
- The "COLD-Light" technology, thanks to the scarce generation of heat, eliminates the need for preheating the equipment and avoid the use of auxiliary cooling devices.
- Operating commands can be viewed and executed using either the machine's control pad, or the software.
- The possibility to import images, models, logos, texts etc., from a broad range of files with different extensions.

TECHNICAL DATA RR WRITER by OROTIG			
	RR-WRITER 50T	RR-WRITER 20H	RR-WRITER 20S
LASER-source type	Multi Diodi pumped fiber (Yb) LASER (Class 4)		
Wavelength	1064 ÷ 1085 nm	1030 ÷ 1200 nm	1064 ± 2nm
LASER Pulse-Power	50W	20W	20W
Pulse-Duration	120nS	200nS	120nS
Pulse-energy	1.0 mJ a 20 kHz	0.8 mJ a 20 kHz	1.0 mJ a 20 kHz
M <sup>2</sup>	< 1,8	1,6 ÷ 2,0	< 1,8
Pulse-Frequency	50 ÷ 100kHz	1 ÷ 200 kHz	20 ÷ 60 kHz
Scan-head	Ultra high-speed galvanic mirrors, marking speed > 7m/S		
Scan-head's focus Adjustment	Through the built-in digital keyboard, software and foot pedal		
Spot diameter	25µm		35µm
Size of L-marking field	60 x 60 mm		110 x 110 mm
Cooling system	Air-cooled LASER source Auxiliary external chiller NOT required (to warming-up time neither)		
Color Micro Video-camera	Integrated, included with 8X zoom-lens		
Access door	Moved up/down by program; openings on the 3 sides to ease introducing ext aux devices into a 32x45 cm working area		
Power-supply	Single-phase, 100/240Vac, 50/60hz, 6A		
Power-consumption (3X)	500W (650W)	400W (550W)	300W (450W)
Dimensionis (LxPxA/A door opened)	45 x 71 x 80/106 cm	45 x 71 x 65/91cm	
Weight (3X)	80Kg (85Kg)	70Kg (75Kg)	67Kg (72Kg)

**“...Much more than powerful:  
LASER for cutting, marking,  
engraving, plotting,...”**

The **RR-Writer 70** uses the “MULTI-DIODE PUMPED FIBER” technology ensuring higher levels of productivity by quality of job done and by managing even the most heavy daily workloads.



TECHNICAL DATA	
<i>Product</i>	<b>RR-WRITER 70 by OROTIG</b>
<b>LASER-source type</b>	Multi Diodi pumped fiber (Yb) LASER (Class 4)
<b>Wavelength</b>	1059 ÷ 1065 nm
<b>LASER Pulse-power</b>	70 W
<b>Pulse Duration</b>	40 nS
<b>Pulse-energy</b>	1.0 mJ a 20 kHz
<b>M<sup>2</sup></b>	1.0 ÷ 1.6
<b>Pulse-frequency</b>	70 ÷ 500 kHz
<b>Scan-head</b>	Ultra high-speed galvanic mirrors, marking speed > 7m/s
<b>Scan-head's focus adjustment</b>	Through the built-in digital keyboard, software and footswitch
<b>Spot Diameter</b>	25 µm
<b>Size of L-marking area</b>	110 x 110 with 160-mm f-Theta
<b>Cooling system</b>	Air-cooled LASER source Auxiliary external chiller NOT required, nor to warm-up time
<b>Color Micro Video-camera</b>	Integrated, included with 8X zoom
<b>Access Door</b>	Moved up/down by program; openings on the 3 sides to easy introduce ext aux devices into a 32x45-cm working area
<b>Power-supply</b>	Single-phase, 100/240V, 50/60Hz, 9A (12A in 3-axis version)
<b>Power Consuption</b>	750W-1000W (in 3-axis version)
<b>Dimensions (WxDxH)</b>	45 x 71 x 65 cm
<b>Weight</b>	75 Kg