



# RF 1222 // THE BIG BOY

### **Never ending power lasers**



#### **KEY FEATURES**

Self refilling Technology

Radio Frequency excited

Low operative cost & Easy integration

High reliability & High beam quality

High electrical/optical conversion efficiency

Integrated RF power supply

TCP/IP connection for remote diagnostics and control

Integrated shutter for safety certificability

On board HMI panel

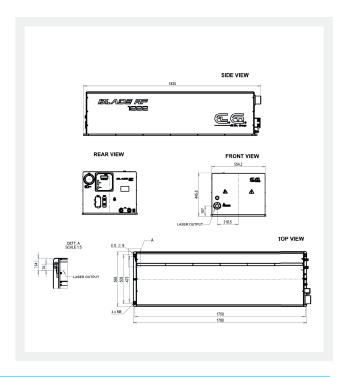
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## **Never ending power lasers**

The **Blade RF 1222**  $\rm CO_2$  laser, joins the advantages of the RF excitement technology (high peak power, high frequency modulation, compactness) with the incredible advantages of virtually "no factory service" requirement of the self refilling solution.

#### MAIN APPLICATIONS:

- · high performance remote processing;
- · plastic, wood, leather, textile and steel cutting;
- · digital converting;
- paper, cardboard and labels hi-speed cutting and kiss-cutting



Systems Specifications	
Model	RF 1222
Rated power (W)	1200
Effective peak power (W)	2400
Power stability (long term)	±5%
Wavelength (µm)	10.6 ± 0.4
Polarization	linear vertical
Beam diameter (1/e <sup>2</sup> at the exit) (mm)	11 ± 0.5
Beam divergence (1/e <sup>2</sup> full angle) (mrad)	2.0 ± 0.1
Maximum pulsing frequency (kHz)	100
Pulse width range (µs)	2 ÷ 150
Mode quality (M <sup>2</sup> )	<1.2
Beam ellipticity	1,2 : 1
Typical gas mix consumption (NI/year)	170
Pulse rise / Fall Time (µs)	<50
Environmental temperature range (°C)	5° ÷ 35°
Maximum humidity	Non condensing at inlet water cooling temperature
<b>Electrical Power Requirements</b>	
Input voltage (V <sub>DC</sub> )	48 ± 0.5
Max current (A)	400
Coolant	
Heat dissipation (W)	20000
Coolant temperature (°C)	20° ± 1°
Water cooling input pressure (bar)	4÷6
Water cooling flow rate (I/min)	40
Dimension/Weight	
Dimension (LxWxH) (mm)	1820x565x446
RF Power supply dimensions	integrated
Safety shutter	integrated
Weight (kg)	300

NOTE: Aiming to product improvement, El.En. SpA reserves the right to change specifications without notice. Purchaser acknowledges that the products must comply with applicable regulations before they can be resold to customers. El.En. lasers are produced under a quality assurance system certified according to ISO 9001.





