

BLADE™ RF

Never ending power lasers



Self-refilling CO₂ laser
Power 350W
Wavelength 10.2μm

KEY FEATURES

- Semisealed technology: no factory refilling needed
- Radio Frequency excited
- Low operative cost & easy integration
- High reliability & high beam quality
- Special RF333P: 350W @ 10.2μm
- High electrical/optical conversion efficiency
- Integrated RF power supply
- TCP/IP connection for remote diagnostics and control

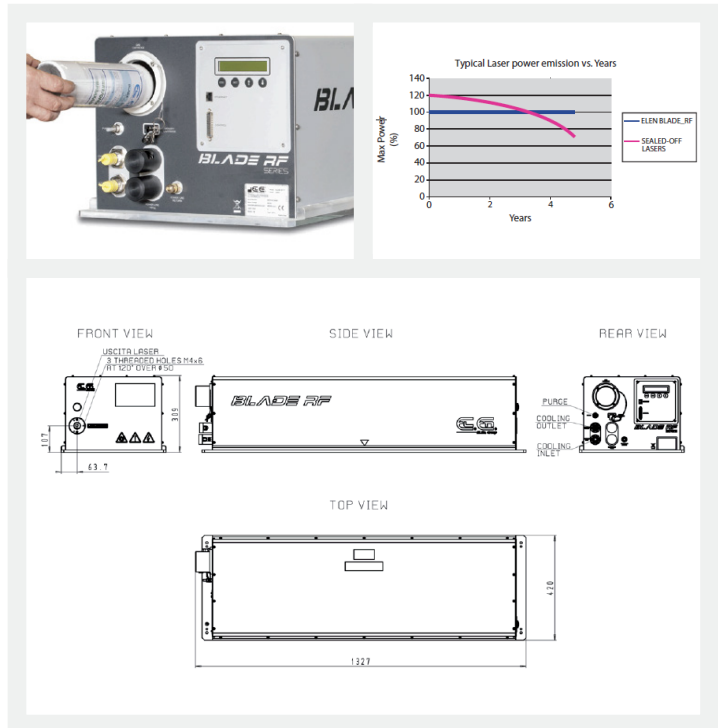
RF 333P

The Blade RF Self Refilling technology provides an unsurpassed stability of the laser power, allowing an absolute consistency of the processes parameters during the years.

With a wavelength of 10.2µm and a rated power output of 330W, the **Blade RF 333P** is a RF CO₂ laser source intended for applications on thermoplastic polymers such as polypropylene. The packaging industry is the natural destination of this device.

MAIN APPLICATIONS:

- plastic processes
- digital converting
- polypropylene coating and film cutting
- labels kiss cutting



Systems Specifications

MODEL	RF 333P
Rated power (W)	330
Effective peak power (W)	>750
Power stability (long term)	±5%
Wavelength (µm)	10.2 ± 0.2
Polarization	Linear horizontal
Beam diameter (1/e ² at the exit) (mm)	9.2 ± 0.5
Beam divergence (full angle) (mrad)	2.0 ± 0.2
Maximum pulsing frequency (kHz)	100
Pulse width range (µs)	2 ÷ 150
Mode quality (M ²)	<1.1
Beam ellipticity	1.1:1
Typical gas mix consumption (Cartridge/year)	2
Pulse Rise /Fall Time (µs)	< 50
Environmental temperature range (°C)	5° ÷ 35°
Maximum humidity	Non condensing at inlet water cooling temperature
Electrical Power Requirements	
Input voltage (V _{DC})	48 ± 1
Max current (A)	100
Coolant	
Heat dissipation (W)	5000
Coolant temperature (°C)	20° ± 1°
Max water cooling input pressure (bar)	4
Water cooling flow rate (l/min)	11±1
Dimensions/Weight	
Dimensions (LxWxH) (mm)	1327x420x309
RF Power supply dimensions	Integrated
Safety shutter	Optional
Weight (kg)	92

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.



El.En. s.p.a. // HQ Operations
 Via Baldanzese, 17 50041 Calenzano (FI) ITALY
 phone +39 055 8826807 fax +39 055 8832884
 email marketing@elengroup.com website elenlaser.com

