

# DX FCPA $\mu$ Jewel Family

Ytterbium-doped Femtosecond Fiber Lasers

## DX-Series $\mu$ Jewel Family

**10-40  $\mu$ J**  
**2-10 W**



### Product Features

- Proven industrial reliability in the field since market introduction in 2004
- Custom-fit pulse energy and average powers for fs laser material processing applications
- Air-cooled optical laser head
- Mechanical reliability complies with MIL-STD-810F and IEC 60601-1
- Regulatory certifications available

### Typical Configurations\*

	<b>DX0210</b>	<b>DX1010</b>	<b>DX0330</b>	<b>DX0540</b>
Center Wavelength	<b>1045 <math>\pm</math> 5 nm</b>			
Average Power	<b><math>\geq</math> 2 W</b>	<b><math>\geq</math> 10 W</b>	<b><math>\geq</math> 3 W</b>	<b><math>\geq</math> 5 W</b>
Pulse Duration	<b><math>\leq</math> 450 fs</b>			
Repetition Rate	<b>100 kHz</b>	<b>1000 kHz</b>	<b>100 kHz</b>	<b>100 kHz</b>
Pulse Energy	<b><math>\geq</math> 10 <math>\mu</math>J</b>	<b><math>\geq</math> 10 <math>\mu</math>J</b>	<b><math>\geq</math> 30 <math>\mu</math>J</b>	<b><math>\geq</math> 40 <math>\mu</math>J</b>

\* Other configurations available for specialized and OEM applications  
e.g. higher average power, higher pulse energy, other repetition rate

# DX FCPA $\mu$ Jewel Specifications

Beam Quality	$M^2 \leq 1.3$
Polarization	Horizontal with respect to baseplate
Power Stability	$\leq 1\%$ rms after stabilization over $\pm 1^\circ\text{C}$
Output Aperture Height	55.4 mm
Laser Head Dimensions	550 x 400 x 149 mm <sup>3</sup>
Laser Head Weight	$\leq 25$ kg
Head Heat Dissipation	Max. 80 W
Controller Dimensions	433 x 483 x 222 mm <sup>3</sup>
Controller Weight	$\leq 30$ kg
Power Consumption	Max. 600 W
Operating Voltage	100-120 or 200-240 VAC*

## Other Parameters

- Output Trigger: TTL 100 ns pulse
- Operating Temperature: 20-30 °C
- Storage Temperature: 0-50 °C
- Warm-up Time:  $\leq 60$  minutes
- Cable Length: 3 m



DX-Series Warning Label

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