

FemtoBlade™ Femtosecond Micromachining Laser

Precision and flexibility for optimized processes.

The FemtoBlade laser system is a versatile tool for processing virtually any material with high quality and throughput.

Features

- Robust industrial design
- Integrated electronic controller
- High-volume manufacturing
- Easy integration
- Modular design for field serviceability
- High productivity:
 - Wide range of PRF from single shot to 16 MHz standard
 - FlexBurst™ technology

Options

- AccuTrig™ triggering function
- MegaBurst™ high-energy burst
- SYNC for high-speed line scanners

Applications

- OLED cutting
- PCB production
- Glass cutting, welding, scribing
- Sapphire cutting, scribing
- High-speed precision metal machining
- Selective thin-film ablation
- Metal drilling, cutting
- Medical device manufacturing



Specifications

Parameter*		
Output power	High Power	Low Power**
IR	200 W	45 W
Green	100 W	25 W
UV	50 W	12 W
Repetition rate	Single shot to 16 MHz	
Pulse width measured at 1030 nm	<500 fs***	
M ²	1.3	
Spatial mode	TEM ₀₀	
Polarization	>100:1 linear horizontal	
Laser Head		
Dimensions (L x W x H)	1004 x 389 x 239.5 mm (39.53 x 15.32 x 9.43 in)	505.5 x 389 x 239.5 mm (19.9 x 15.32 x 9.43 in)
Exit beam location and reference (H x W)	195 x 32.9 mm (7.68 x 1.30 in)	
Power Supply (fits 19-in rack)		
Dimensions (L x W x H)	388 x 475 x 43 mm (15.3 x 18.7 x 1.7 in)	

Note:
 * All specifications for 500 kHz, unless otherwise noted. Other repetition rate optimization available upon request
 ** PRF is 1 MHz for Green and UV
 *** IR is tunable from < 500 fs to > 5 ps

Regulatory Compliance

The products listed in this datasheet comply with the following regulatory standards, and display the certification and laser safety markings shown below. Contact your local Lumentum sales representative for additional information on specific products or configurations.

Regulatory Standards

IEC/EN 61010-1 IEC/EN 60825-1
 IEC/EN 61000-6-2 IEC/EN 61000-6-4
 CDRH 21 CFR 1040.10



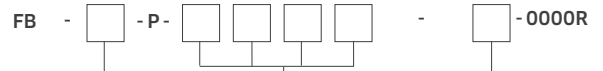
Safety certification markings



Laser safety warning label

Ordering Information

For more information on this or other products and their availability, please contact your local Lumentum account manager or Lumentum directly at customer.service@lumentum.com.



Power Level	Code	PRF	Code	NLO	Code
High	H	500 kHz	0500	1030 nm	R
Low	L	1 MHz	1000	515 nm	G
				343 nm	V

Accessories

Description	Product Code
AccuTrig	AT-0000R
MegaBurst	MB-0000R
SYNC	SC-0000R



North America
 Toll Free: 844 810 LITE (5483)

Outside North America
 Toll Free: 800 000 LITE (5483)

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