

# 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 <sup>2</sup>	1.3		
Spatial mode	TEM <sub>00</sub>		
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	195 x 32.9 mm (7.68 x 1.30 in)		
reference (H x W)			
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/UL/CSA 61010-1 IEC/EN 60825-1 FCC 47 CFR Part 15 & 18 (Class A)

IEC/EN 61000-6-2 INVISIBLE LASER RADIATION

IEC/EN 61000-6-4 (Class A)

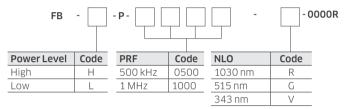
CLASS 4 LASER PRODUCT

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.



### 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)

Toll Free: 400 120 LITE (5483)

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