

# ATLEX-FBG Series



Compact, high efficient excimer laser  
for Fiber Bragg Grating (FBG) writing

## Key Features:

- TMC (Total-Metal-Ceramic) Vessel
- Corona Preionization
- Solid State Switch
- Laser Head Volume < 3 l
- Air-Cooled, Thermal Management
- Flushable Optics Holder
- Integrated 4-Valve System for Easy Gas Handling
- RS485, RS232, USB and FOC Interface for System Integration
- Energy Stabilization Mode
- Meets European CE Standard, RoHS Compliant



## Technical Data

Gas Medium	ArF	KrF	Units
Wavelength	193	248	nm
High Voltage Switching Technique	Solid State Switch	Solid State Switch	
Max. Pulse Energy <sup>1)</sup>	10	15	mJ
Max. Average Power			
ATLEX-300-FBG	2.4	4.0	W
ATLEX-500-FBG	4.0	6.5	W
Spatial Coherence <sup>2)</sup> (Vertical Beam Direction)	> 300	> 300	µm
Max. Rep. Rate			
ATLEX-300-FBG	300		Hz
ATLEX-500-FBG	500		Hz
Pulse Duration <sup>2)</sup>	5 - 8		ns
Beam Dimensions <sup>2)</sup> (V x H)	4 x 6		mm
Beam Divergence <sup>2)</sup> (V x H)	1 x 2		mrad
Energy Stability (Stand. Dev.)	< 3		%
Dimensions (L x W x H)	540 x 470 x 370		mm
Weight	60		kg
Cooling	Air		
Power Requirements	230 VAC / 6,3 A / 50-60 Hz / 1 Phase		

All specifications are typical data and subject to change without notice due to product improvements.

<sup>1)</sup> measured at low rep. rates; allow 10% reduction of output energy and power for laser equipped with stabilization mode

<sup>2)</sup> Typical Value, FWHM

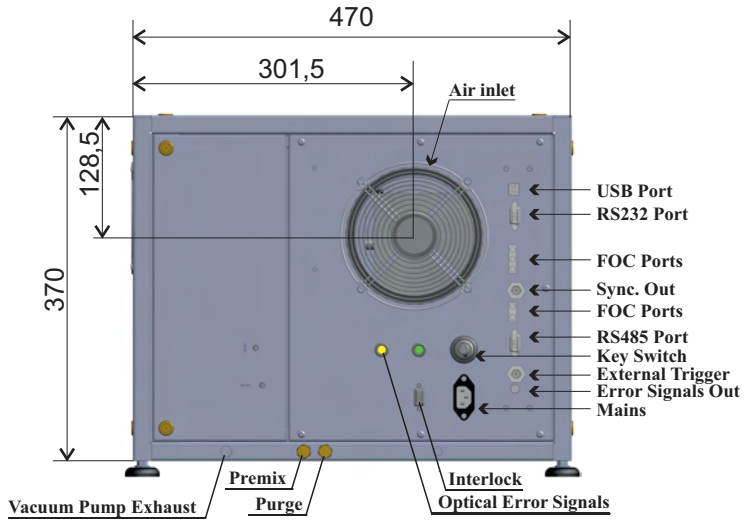
**ATL LASERTECHNIK**

Advanced Technology Lasers

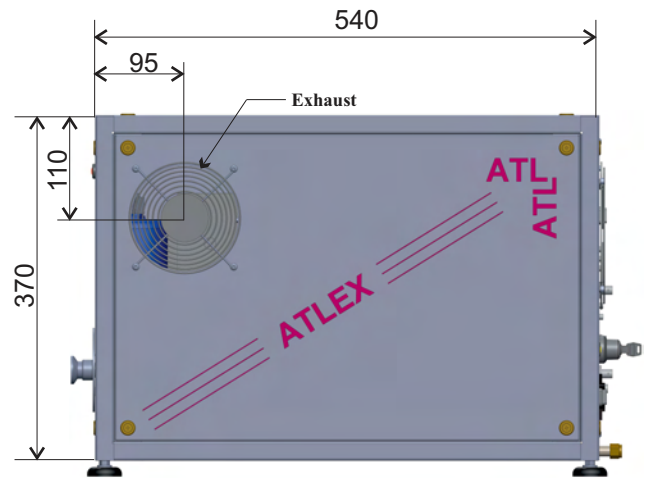
# ATLEX-FBG Series Dimensions



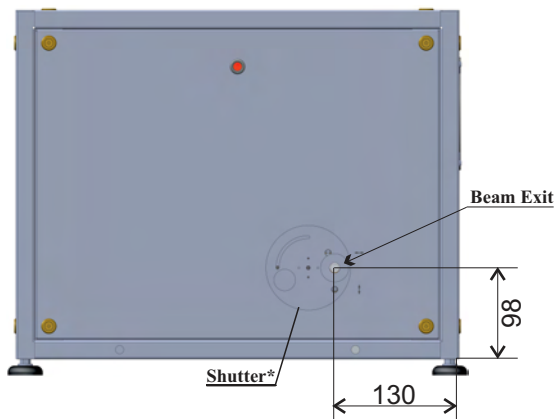
Rear view



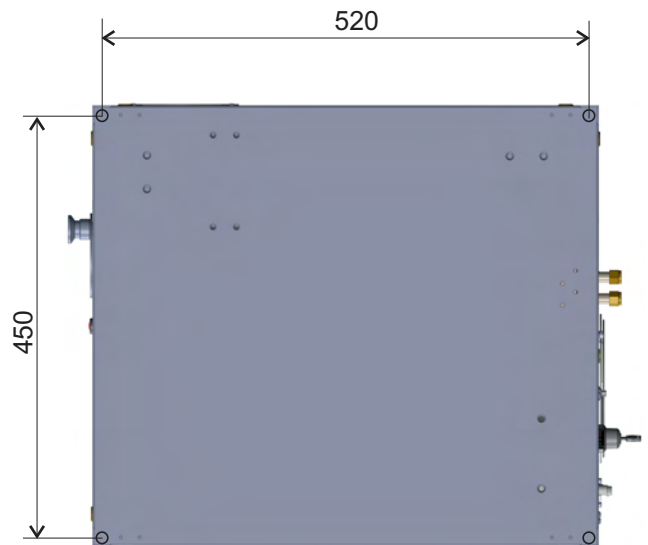
Side view



Front view



Bottom view



\*Optional

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ATLEX-FBG complies with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health.



Visible and invisible Laser Radiation. Avoid eye or skin exposure to direct or scattered Radiation. CLASS IV Laser radiation product per EN60825-1 (1994).