

IPG Photonics' LaserCube

Fiber Laser Flat Bed Cutter



Small Parts Made Easy™



Benefits

- ▶ Fast Cutting for Small Parts
High-force Linear Drives & Low-mass Head
- ▶ IPG's Fiber Reliability
No Laser Maintenance,
No Mirrors to Align
- ▶ Expanded Capabilities
Cut Copper, Brass & Reflective Metals
- ▶ Vision Package
Precise Part Alignment
Every Time



Features

- ▶ Outstanding Pulse Power/
Energy Stability
- ▶ >30% Wall-plug Efficiency
- ▶ CW & Pulsed Modes
- ▶ Perfect Beam Quality
- ▶ Beam Quality Optimized
for Applications
- ▶ Internal Pulse Generator &
Pulse Shaping
- ▶ Low Cost High Peak Power
- ▶ Compact Rugged Design



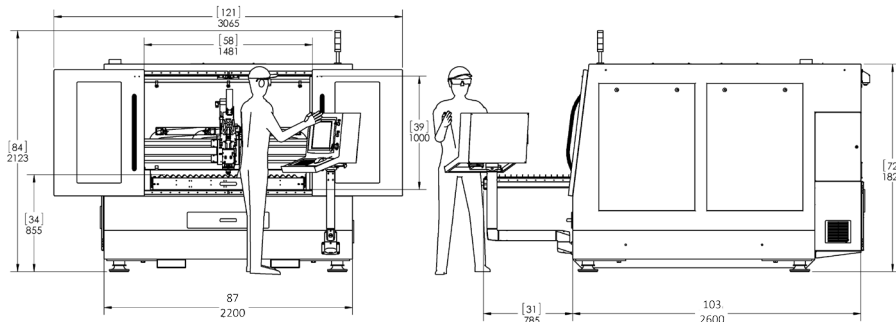
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IPG Photonics The Power to Transform®

Fiber Laser Flat Bed Cutter

System Specifications

Laser	IPG Fiber Laser: 500 W, 1 kW, 1.5 kW, 2 kW, 3 kW 4 kW CW or 450/4500 W QCW Feeding Fiber: 50 μm ; Red Aiming Laser	
Beam Delivery	IPG Photonics FLC-D30 Motorized Cutting Head 200 mm Focusing Optic, 100 mm Collimator, Spot Size $\sim 100 \mu\text{m}$ for 50 μm Feed Fiber Capacitive Height Sensing; Replaceable Cover Window Coaxial Cutting Gas; Side Blower Nozzle	
Motion System	1225 x 1225 x 70 mm Workspace Linear Motor Driven X & Y Stages 1245 mm Travel Each 1 μm Linear Encoder Fully Sealed w/ Air Purge Positional Accuracy: $\pm 25 \mu\text{m}$ Repeatability: $\pm 2 \mu\text{m}$	Ball Screw Driven Z-Stage 75 mm Travel 2,5 μm Linear Encoder Positional Accuracy: $\pm 10 \mu\text{m}$ Repeatability: $\pm 5 \mu\text{m}$
Machine Base	Fabricated Steel Structure: 72" H x 87" W x 102" D Granite Structure for Stability and Rigidity; Integrated Fork Tubes for Lifting Integrated Electronics, Gas and Laser Enclosures; Vibration Isolation Mounting Feet Telescoping Cutting Box & Debris Collection Drawer for Easy Load, Unload & Cleaning	
Enclosure	Laser Safety Enclosure – Class 1 Fabricated 14GA sheet metal construction; Horizontal Front Doors, 58" Wide Laser Safety-Viewing Window; Side Access Maintenance Panels Exhaust Duct Bulkhead Fitting; Make-up Air Vent	
Controller	Industrial CNC Motion Controller; 15" LCD Touchscreen HMI CNC Software with G/M-code programming; Full Contouring Capability Laser Power Proportional to Cutting Speed; Editable Material Database Programmable Gas Pressure Regulator; Multilevel Security Access System	
Air Exhaust	Exhaust Plenum for Exhausting Smoke & Debris from Cutting Box; Internal Ducting to Exhaust Plenum via a Single Ducting Outlet	



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