FLAST-Constant

Fiber Laser Modules

Laser cutting represents the largest and the most important application of material processing market. Metal, organic and non-metals many materials can be cut via CW (Continuous Wave) lasers. Laser cutting technology is a non-contact process and enables customers to cut variety of materials faster.

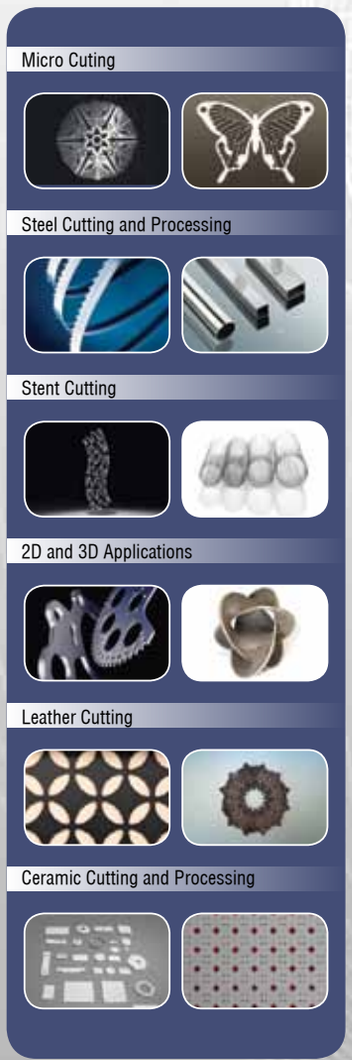
Fiber laser – based cutting technology has several advantages compared to alternative technologies. Fiber lasers offer the tightly focused spot size resulting from a high beam quality, high efficiency, maintenance free application, reliability and flexibility.

FLAST-Constant CW fiber lasers are developed to cut burrs-free, fast and highly precise. With its flexible architecture, it can be adopted to cut complex contours on flat, tubular or three-dimensional materials. Thanks to the unique features of ***FLAST-Constant*** Fiber Laser Series, ***FLAST-Constant*** matches any customer requirements and is perfectly tailored for micro-cutting.

FLAST-Constant Series represent the state-of-the-art in fiber laser technology with its proprietary design of FiberLAST and are constantly being improved. They are housed in a robust package that meets more than industrial standards providing maintenance free and reliable long life operation.

FiberLAST offers 24/7 service and technical support. ***FLAST-Constant*** series CW fiber lasers are also suitable for upgrades.

APPLICATIONS



- *Metal cutting*
- *Precision cutting*
- *Stainless steel and aluminium cutting and processing*
- *Copper material cutting and processing*
- *Cutting and processing of composite material*
- *Leather cutting*
- *Ceramic cutting and processing*
- *Titanium cutting and processing*
- *Precision cutting and processing of stent*
- *Automotive industry*
- *2D and 3D applications*
- *Engraving*
- *Others*

ADVANTAGES

- *Proprietary design*
- *Customer oriented solutions*
- *High – efficiency*
- *High beam quality*
- *Clean & burr-free cuts*
- *24/7 operation*
- *Maintenance free*
- *More than 100.000 hours of working life*
- *Compelling technical support*
- *OEM solutions*

FiberLAST, Year 2012, Winner of TUBITAK
(The Scientific & Technological Research Council of Turkey)
"10th Technology Award"

FiberLAST

LASER	FLAST-Constant 50W	FLAST-Constant 100W	FLAST-Constant 150W	FLAST-Constant 200W	UNIT
Laser Type	Yb-doped fiber laser				
Mode of operation	continuous wave				
Wavelenght	1060+1				nm
Bandwidth	1				nm
Average power	50	100	150	200	W
Output power stability	% < 5				
Beam quality (M^2)	< 1,2				
Polarization	random				
Laser output	QBH connector				

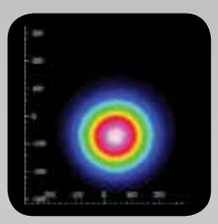
Electrical Specifications

Input voltage	24+-1	V(DC)
Power consumption	750	W

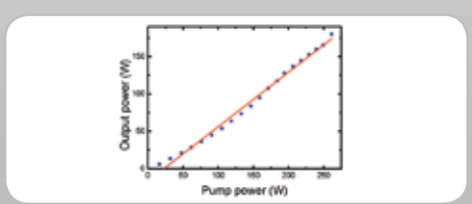
Environmental Conditions

	Minimum	Maximum	
Operating temperature	+15	+35	°C
Storage temperature	+10	+60	°C
Humidity	%10	%90	

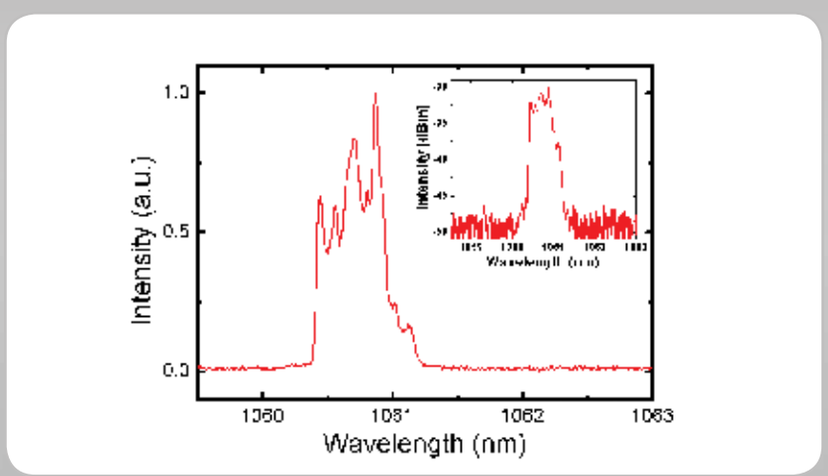
All specifications are subject to change without notice.



CW Beam Profile



CW Beam Spectrum



CW Output Power

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