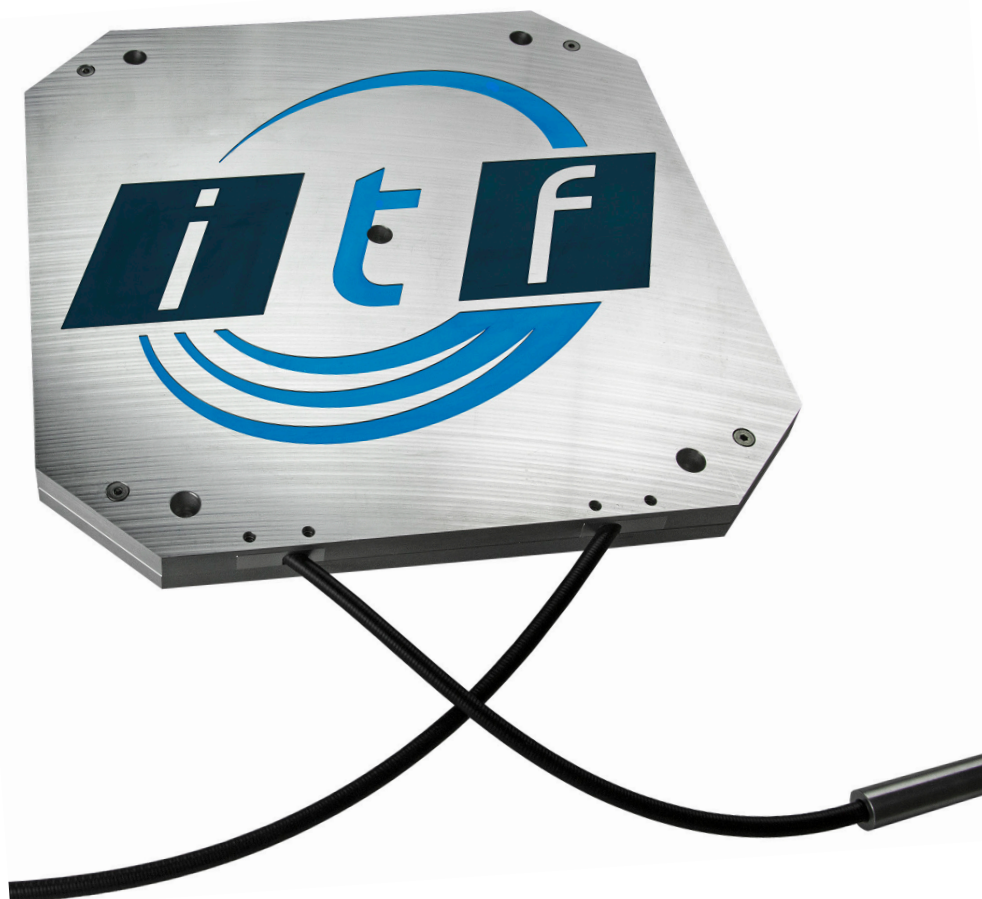


Powering Industrial Lasers Forward Laser Engines

Integrated Optical Cavity Solutions - Up to 5 kW

ITF Technologies' Laser Engines are built and designed based on our long time expertise in Large Mode Area fiber handling and component manufacturing. They feature exceptional pump to laser efficiency and beam quality. With the proper pump configuration, they will deliver maximum laser power using the minimum number of pump diodes.

The use of ITF Laser Engines allows our customers to take advantage of optimal optical performance while being able to concentrate their efforts on other parts of their laser system. They are therefore able to optimize their system design to best answer the market and their own needs.



KEY FEATURES

High Pump Conversion Efficiency

Custom Configurations Available

Single module up to 5kW

Power and temperature monitoring

APPLICATIONS

Industrial Fiber Lasers

Fiber Laser Combination

kW Class Fiber Lasers

Industrial & Research

Additive manufacturing

Metal sheet cutting

Laser welding

FOR MORE INFO

Website: www.itftechnologies.com

Email: info@itftechnologies.com



Laser Engines - 5 kW - Product under development

Optical specifications

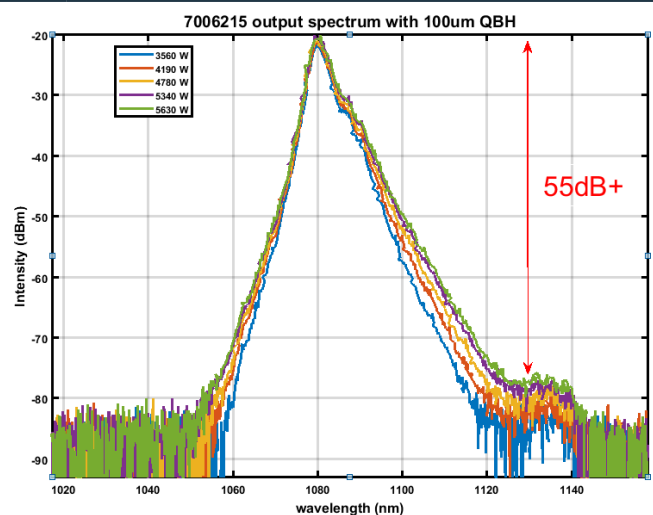
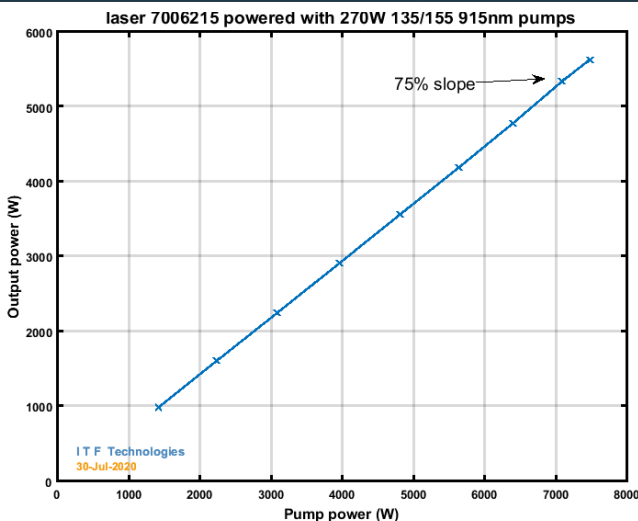
	5 KW CLASS
Center wavelength	1080nm +/- 5nm
Optical-Optical Efficiency	>70% (typical >73%)
Polarization	Random
BPP	3-5 mm-mrad
Laser line width	> 1nm
Power variation over one hour	less than +/-1% (after warmup)
Output Power	Up to 5 kW

Pump requirements

	VALUE	NOTES
Number of pump input ports	16	
Pump fiber	200/220 um NA=0.22	
Pump wavelength	915nm	>95% of energy inside 908-928nm over full operation range

Mechanical and environmental specifications

	VALUE	NOTES
Dimensions	530mm x 659mm x 30.5mm	-
Operating temperature	15C to 25C	Base plate temperature, non condensing
Storage temperature	-40 to 75°C / <80% relative humidity	Non condensing
Delivery fiber	50um and 100um core	-
Delivery cable	Optional QBH optical cable available	Variable length



ORDERING INFO

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