itf Technologies
Member of O-Net Group

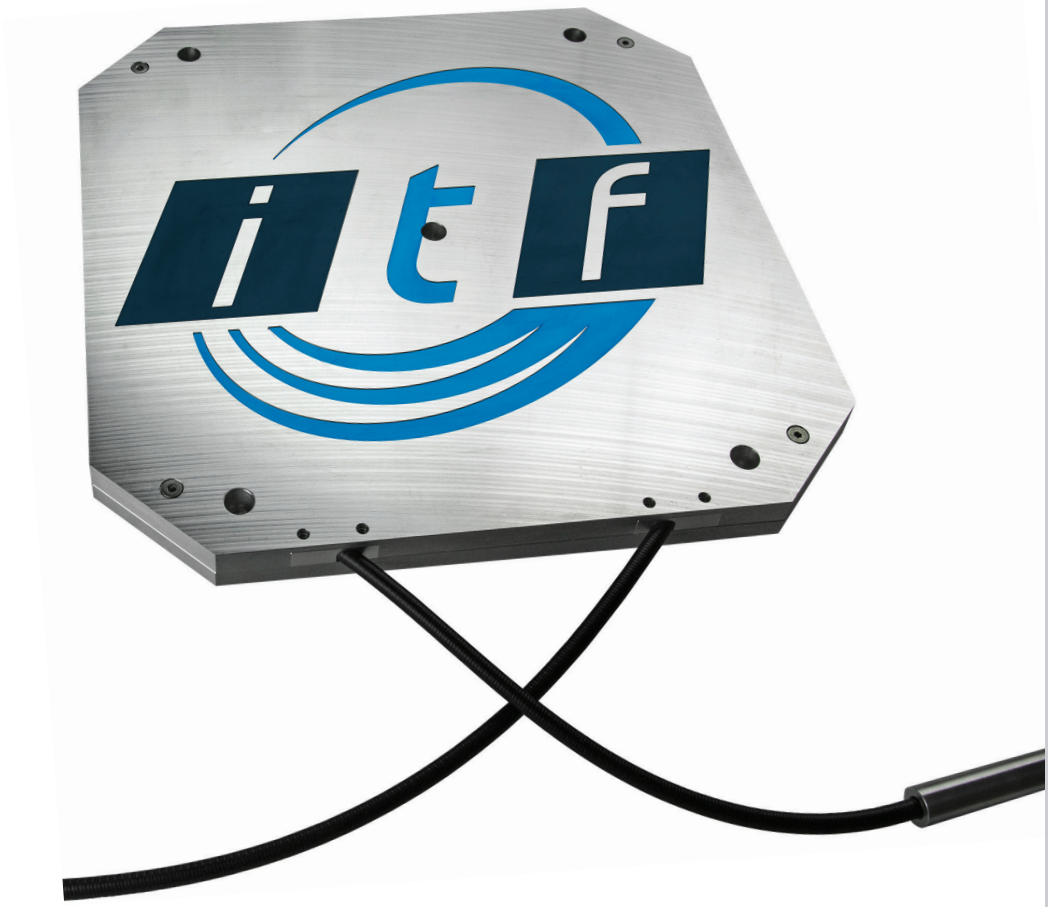
One Name in Beam Quality

Powering Laser Engines Forward
Laser Engines

Integrated Solution for Fiber Lasers up to 2kW

ITF Technologies' Laser Engines are build and designed based on our long time expertise in Large Mode Area fiber handling and component manufacturing. They feature exeptional pump to laser light efficiency and preserve an excellent beam quality. With the proper pump configuration, ITF Technologies Laser Engines will deliver the maximum laser power by using the minimum amount of pump diodes.

Our Laser Engines allows our customers to take advantage of optimum optical performance and concentrate their efforts to build a laser system based on their own integration expertise. They are then able to optimize their design to best answer their own customer requirements.



KEY FEATURES

- High Pump Power Efficiency
- Custom Configurations Available
- High Optical Conversion Efficiency
- ROHS Compliant

APPLICATIONS

- Fiber Lasers
- Fiber Laser Combination
- kW Class Fiber Lasers
- Industrial & Research

FOR MORE INFO

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POWERING LASER ENGINES FORWARD

Laser specifications (1 kW class)

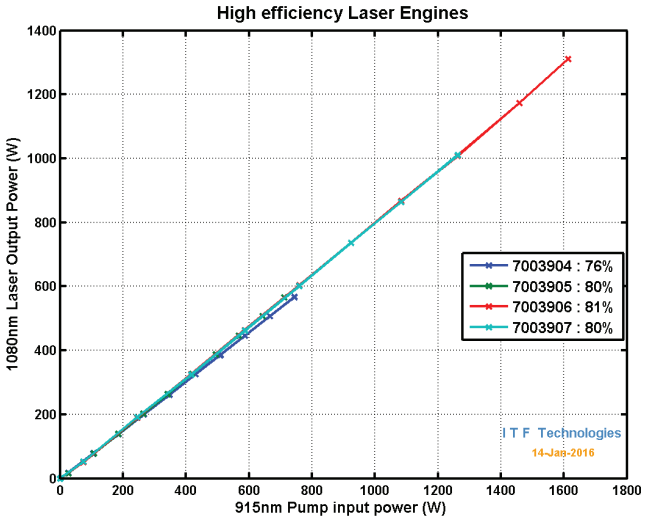
	1 KW CLASS	2 KW CLASS
Center wavelength	1080nm +/- 5nm	1080nm +/- 5nm
Optical efficiency	>73% (typical >75%)	>73%
Polarization	Random	Random
M2	< 1.2	< 1.5
Laser line width	> 1nm	> 1nm
Power variation over one hour	less than +/-1% (after warmup)	less than +/-1% (after warmup)
Output Power	500W or 1000W	2000 W

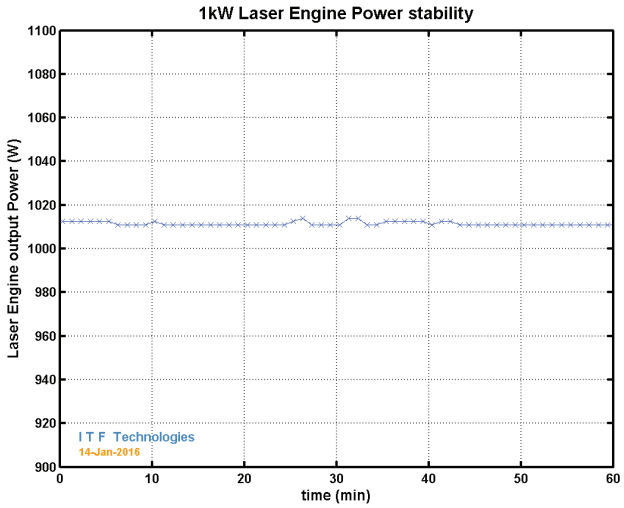
Pump requirements

	VALUE	NOTES
Number of pump input ports	6 to 24	Dependant on customer's pump diode choice
Pump fiber	106.5/125um NA=0.22	135/155um fibers also available
Pump wavelength	915nm	

Mechanical and environmental specifications

	VALUE	NOTES
Dimensions	300mm x 300mm x 25mm	All power classes have the same footprint
Operating temperature	15C to 25C	Base plate temperature, Non condensing
Storage temperature	-40 to 75°C / <80% relative humidity	Non condensing
Delivery fiber	20/400um or 25/400	50um and 100um core output also available
Delivery cable	Armored, up to 5 meters	QBH optical cable available





ORDERING INFO

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O-Net Communications