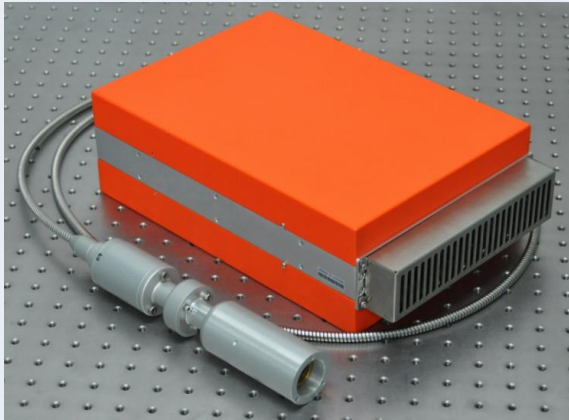


IFL-20P-HM 20W Multi-Mode Pulse Fiber Laser

IFL-20P-HM (H-series) is our Multi-Mode series Pulse Fiber Laser. It is designed with integrated cooling and iLuma's unique SRS suppression technology. The HM series pulse laser provides the user the ability to select pulse durations from 10ns to 350ns and has been designed to give optimal peak power and pulse energy over this range. Besides providing higher output pulse energies, the HM series stands out from the other series because instead of providing our users with a sharp Gaussian beam profile for marking, it is designed to provide quality and stable broader beam profiles for unique applications such as deep engraving and surface coating removal.

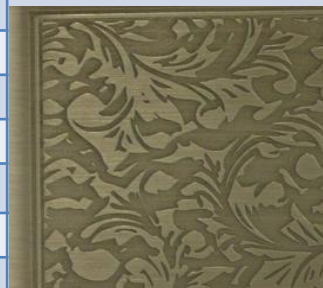
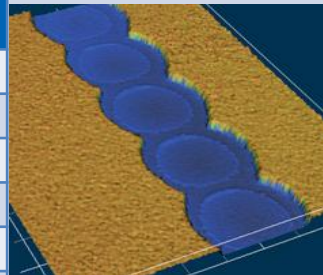


Features:

- ✓ Integrated built-in heatsink and cooling fan
- ✓ Peak power to 25KW
- ✓ Rep Rate from 20KHz* to 1000 KHz
- ✓ Pulse Duration from 10ns to 350ns
- ✓ Beam Quality $M2 \leq 4$
- ✓ Pulse Duration Tunable
- ✓ Rising time of first pulse tunable
- ✓ 2year warrantee
- ✓ Peak power cover all the operation rep rate.
- ✓ Integrated Isolator with Beam Delivery Optics
- ✓ SCSI hardware and RS-232 software control
- ✓ Real time monitoring & Shutdown Protection

Applications:

- ✓ Metal Marking & Cutting
- ✓ Remote Metal Welding
- ✓ Thin Film Removal
- ✓ Poly-compounds Marking
- ✓ IC Marking
- ✓ Ceramic Scribing and Cutting
- ✓ Mono silicon, Poly silicon Processing
- ✓ Resistor Trimming
- ✓ Solar Cell Scribing
- ✓ ITO Film removal
- ✓ Hole drilling



*Single Shot and pulses on demand available

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Product Specification:

Product Name	20W HM	30W HM*	40W HM*
Product Code	IFL-20P-HM-N-1	IFL-30P-HM-N-1	IFL-40P-HM-N-1
Average Power	20W	30W	40W
Central Wavelength	1064 ± 5 nm	1065 ± 5 nm	1066 ± 5 nm
Pulse Duration	10ns-350ns	10ns-350ns	10ns-350ns
Max Peak Power	20KW	25KW	25KW
Full Power of Rep rate	20 - 1000kHz	25 - 1000kHz	30 - 1000kHz
Output Power Stability	5%	5%	5%
Max Pulse Energy	1mJ	1.2mJ	1.3mJ
Beam size	5 – 9mm	5 – 9mm	5 – 9mm
M ²	≤ 4	≤ 4	≤ 4
polarization	Random	Random	Random
Length of cable	2 m	2 m	2 m
Weight of Module	< 6kg	< 6kg	< 6kg
Dimension of Module	360 x 210 x 100 mm	361 x 210 x 100 mm	362 x 210 x 100 mm
Operation Temp.	5°C - +55°C	5°C - +55°C	5°C - +55°C
Storage Temp.	-10°C - + 70°C	-10°C - + 70°C	-10°C - + 70°C

* will be launched at the end of year 2014

Product Order Code:

Co., Code	Average Power Code	Beam Quality Code	Pulse Feature Code	Wavelength Code	BET Code
IFL	15P	SM	N	1	A
	20P	LM	S	2	B
	30P	HM	P	3	C
	40P		C	4	D
	500C		L		E
Notes	15P-15W Pulse	SM-Single Mode	N- Pulse, 4ns-350ns,	1-1060nm	A- Without BET
	20P-20W Pulse	LM-Low Mode	S-Short Pulse, 1.5ns-10ns	2-1550nm	B- 3 X BET
	30P-30W Pulse	HM-Multi-Mode	P-ps Pulse, 700ps-10ns	3-532nm	C- 5X BET
	500C-500W CW		C-CW/Modulation	4-2000nm	D- 7X BET
			L-Smart ns Pulse		E- 9X BET
Example	Product Code	Description			
1	IFL-20P-LM-N-1-D	20W Pulse (1060nm), low mode , M2<2, Pulse Width 4ns-350ns, With 7X BET			
2	IFL-20P-SM-S-1-B	20W Pulse (1060nm), Single Mode, M2<1.3, Pulse Width 1.5ns-10ns, With 3X BET			
3	IFL-20P-SM-P-1-C	20W ps Pulse(1060nm), Single Mode, M2<1.3, Pulse Width 700ps-10ns, With 5X BET			

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