multimode fiber laser



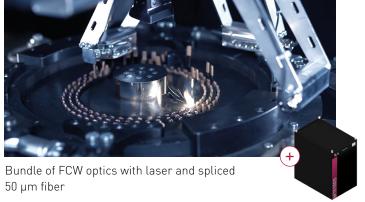
MODULAR LASER SOURCES WITH POWER OF 3 – 24 kW AND SPLICED FIBERS OF 50 – 100 μm OR PLUGGED FIBERS OF 100 – 1,000 μm

Brightlight lasers are offered in combination with various Scansonic optics for laser welding, brazing, cladding, cutting and hardening. Brightlight is supported by Scansonic's worldwide sales and service network as well as Scansonic's development teams.



APPLICATION EXAMPLES





LASER SPEC.

Operation mode	Multimode
Polarization	random
Central emission wavelength	1080 nm
Output Power	3 - 24 kW
Power range	1% - 100%
Output emission bandwith	+/- 5 nm
Modulation frequency	10 kHz
Switching time	25 μs

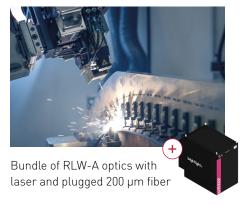
OPTICAL OUTPUT SPEC.

Delivery cable connector	QBH (up to 9 kW), QD, Q+
Delivery Diameter / color / cable type	13 mm / yellow / metal shielded cable
Beam quality M ²	4 - 20
Delivery cable diameter output	50 μm up to 6 kW, 100 μm
Delivery cable length	20 m (longer distance on request)

ELECTRICAL SPEC.

Voltage	360 V - 440 V
Max. input current	16 A -125 A
Frequency	50 Hz / 60 Hz
Max. input power	10 kW - 75 kW

APPLICATION EXAMPLES







MECHANICAL SPEC.

Dimensions (L x H x B)	Spliced	Plugged
Cabinet size small	892 mm x 433 mm x 744 mm	900 mm x 575 mm x 744 mm
Cabinet size medium	868 mm x 543 mm x 1013 mm	900 mm x 685 mm x 978 mm
Cabinet size large	995 mm x 960 mm x 1203 mm	995 mm x 960 mm x 1399 mm
Weight	180 kg - 540 kg	200 kg - 575 kg







up to 15 kW



up to 24 kW

ENVIRONMENTAL SPEC.

Operation temperature range	0 °C - 40 °C
Storage temperature range	-10 °C - 50 °C
Operation humidity	0% – 95%
Storage humidity range	0% – 95%

COOLING SPEC.

Water temperature	20 °C - 25°C
Water pressure	3 - 5 bar
Flow rate	25 l/min - 200 l/min (each 3 kW laser power 25 l/min)
Cooling capacity	6 kW - 48 kW (each 3 kW laser power 9 kW + 1 kW)

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