



FiberFly

Power 10-20-30-50-100W



Maximum
energy savings



Virtually no
maintenance



FiberFly uses the most innovative technology at with **active fiber** doped with Ytterbium. It is the ideal laser solution for **precision marking, micro-machining and cutting** of plastic and metal materials. The fiber technology has provided extraordinary leaps in laser technology: The expected laser life provides more than **100,000 hours** of marking due to the use of “**single emitter**” diodes as well as the fully integrated design and construction of the optical components. In order to guarantee additional protection against overvoltage or power blackouts, Lasit an interference **filtration system**. This design is standard on each FiberFly system that is built. The real effectiveness is verified by a noise generator. Moreover, a flexible stainless steel tube protects and guides the connection cables as well as the optical fiber. An additional layer of steel armour cabling further protects the cables. This tube of diameter 25mm minimizes the possibility of accidental breakage and it creates additional protection against any electromagnetic interference or electrostatic discharge. The marks created with the FiberFly system are accurate, indelible and have **no environmental impact** whatsoever, unlike inks and chemicals.

Technical Specifications

Power	10-20-30-50-100W
Technology	Active fiber laser doped with Ytterbium
Wavelength	1060-1070 nm
Beam quality	$M^2 < 1.8$ (measured and real)
Pulse frequency	from 20 KHz to 200 KHz (1MHz optional)
Pointing laser (laser sighting)	The red laser diode coaxial provides a way to pinpoint exactly where the part will be marked. The visual guide helps to align precisely where the mark will be placed on the workpiece
Electrical connection	110-230 Vac (L+N+Gnd) 50-60Hz
Maximum absorption	180W, 200W, 250W, 400W
Cooling	Air cooled for 10-20-30-50W Water cooled for 100W
Interconnection cable	Stainless steel armoured $\varnothing 25\text{mm}$ length 3 mt
Operating temperature	15°C - 35°C without condensation

- 100,000 hours of marking
- Active fiber technology
- Precision Marking
- Protective steel cable

