

FIBER-FLY

Diode laser

LASER MARKING SPECIALIST



LASER MARKING
LIGHT MARKING



TECHNOLOGY

FiberFly is the ultimate solution for the precision marking and micro-processing of all types of metals and plastics. Extremely compact, modular, perfectly sealed, it is configured for easy integration into any industrial production line. The **FiberFly** system offers the perfect combination of reduced operating costs and high throughput.

- **MAINTENANCE FREE:** the expected diode life of a fiber laser is in excess of 100.000 hours
- **LASER MODULE:** compact, 90° adjustable, with an ultra-fast scanning unit. Several laser controls (i.e. laser OK, oscillator failure, alarm reflected radiation...) including real time measuring of the emitted power.
- **CONTROL MODULE** - it contains the Laser Generator, the Power Supply and the Server - in a stainless steel 3U 19" rack. The **Power Supply** is protected against interferences and impulsive signals. The **Server** unit, for the control of the laser marking system - is connected to the company network or to the client PC through a 100Mbit/s TPC/IP communication. There is an industrial 26pin round connector available to directly connect the start/stop signals, the marking light and the encoder signals, if marking on fly is used.
- **DUST PROTECTION FAN FILTER:** on the front panel of the Control Module, so that the laser can easily be used in less clean industrial environments, i.e. with dust and oil in the air.
- **FLY CONNECTOR:** For further protection of the fiber and the cables, the connection between the laser and the diode module has been realized with a 25 mm diameter stainless steel connection. This design reduces to a minimum the risk of accidental breakage of the fiber and is also extra protection against electromagnetic interferences and electrostatic discharges.
- **POSSIBILITY TO INTEGRATE UP TO 8 MOTORS:** the motor system is based on servo/stepper motors with encoder feedback and supports the use of a **Joystick**. The interface is a RS485 Bus.
- **LASER OPERATIVE SOFTWARE:** **FlyX** (ActiveX) and **MotorX** for users that prefer to build their own application. **FlyCad** for a system with complete software, for immediate use where all the more advanced functions have already been implemented.

TECHNICAL FEATURES

LASER

CW Output power	20 W
Pulse energy	1mj
Solid State Laser	Ytterbium fiber with con q-switch
Cooling System	Integrated, Air to Air
Beam Quality	M2 < 1.5
Q-switch frequency	20-100 KHz
Aiming Beam for marking preview	650 nm Red Diode

SCANNER

Mirror aperture	8 mm or 10 mm
Marking Speed	600 characters/s
Accuracy	2 μ

