

Laser marking system type IF 20 IP / Baublys Laser GmbH

The compact fiber reinforced laser IF 20 IP with excellent beam quality, especially for industrial marking tasks. Latest diode technology from communication technology with very long lifetime. An almost maintenance-free system, without protective cabin; laser class 4.

The basic system consists of the following components:

- Fiber laser source
- beam guide
- galvo head
- control cabinet
- Machine control computer

Laser source:

- Diode pumped fiber amplified ytterbium laser with 1064 nm
- wavelength;
- hermetically sealed housing with plug-in connections for comfortable
- comfortable handling;
- Pulse frequency: 20 - 200 kHz
- Power class: 20 Watt
- Beam quality: $M^2 < 1.5$
- Beam diameter: $< 45 \mu\text{m}$ (at $f=160 \text{ mm}$)
- Electr. connected load: 400 V / N/PE / 50 Hz / 16 A / 3.5 kW

Beam deflection system:

- High-speed precision galvo system of smallest design (Scancube 10);
- Focusing optics with focal length $f = 160 \text{ mm}$ with a
- focus distance of 180 mm from protective glass;
- size of marking field: 112 x 112 mm;
- incl. protective glass for focusing optics;
- Change of optics possible without tools.

Laser control:

- Control computer on PC basis, designed for the requirements of
- industrial use;
- Data backup by hard disk mirroring on 2nd removable hard disk;
- Operating system Windows XP, OEM in country-specific language;
- 15" Color LCD monitor, high resolution, low radiation;
- Network card Ethernet, PCI;
- CD-ROM drive,
- incl. power supply for the laser;

- Main switch, emergency stop button, key switch and emission light
- according to BGV B2, EN 60204-1 and EN 60825-1.

Software:

- The pre-installed laser software WinLaser incl. graphical editor WinGraedPro have comfortable operating functions via pulldown menus and can be learned quickly and easily due to the user-friendly structure.

Miscellaneous:

- Set-up camera BDC for counter-reading the DMC code.