

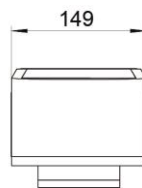
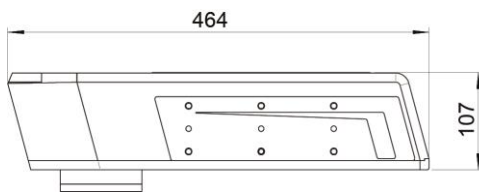
Product: **DFL Ventus Marker Industrial Design**

Series: **Business Fibre**

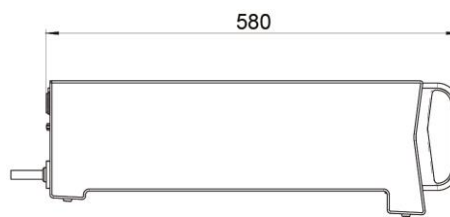
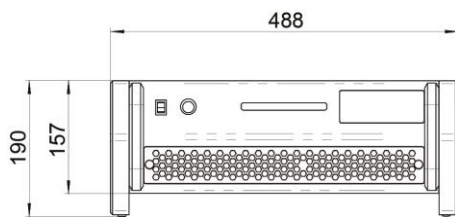


Laser type	fiber laser Yb:fibre, MOPA system
Operating mode	pulsed
Wave length	1064 nm ± 5 nm
Laser power max.	20 W - 70 W, system dependent
Beam quality M ²	< 1.3 bis < 3.7, system dependent
Peak power max.	9 kW - 20 kW, system dependent
Pulse energy max.	0.7 mJ - 1.3 mJ, system dependent
Pulse repetition rate	1 kHz - 1 MHz, system dependent
Number of adjustable pulse forms/-lengths	25 - 40
Pilot laser	650 nm, < 1 mW
Laser class	4
Functional safety in accordance with DIN EN ISO 13849-1	PLe
Power supply	85 - 264 VAC/10 A/50 - 60 Hz
Power consumption max.	600 - 1000 W, system dependent
Fuse protection	110 VAC: 2 x 5 AT, 220 VAC: 2 x 2.5 AT
PC interface	USB 2.0
Interlock connection	dual-circuit interlock, SD-Ready
Laser control interface for	ready-to-operate message/fault alarm, external shutter warning light, 8 digital inputs, 8 digital outputs, differential inputs for "Marking on the fly"

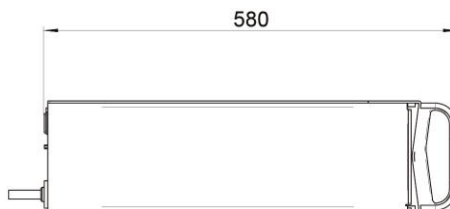
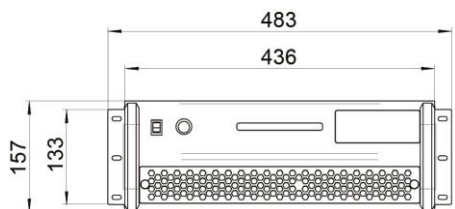
Internal control (optional)	Control interface: - 2 Ethernet interfaces Device interfaces: - 2 serial interfaces (RS232/RS485) - 1 USB 2.0 interface Service interfaces: - 4 status LEDs for laser control - 1 display port connection for monitor - 2 USB 2.0 interfaces for mouse and keyboard
Scanning speed	< 10 m/sec
Marking software	Magic Mark V3
Marking field size and focusing length (depending on the focusing objective)	60 mm x 60 mm for 132 ± 3 mm 110 mm x 110 mm for 200 ± 3 mm 180 mm x 180 mm for 327 ± 6 mm
Focus shift when using the FocusShifter (depending on the focusing objective)	± 5 mm ± 14 mm ± 35 mm
Operating temperature, air humidity	25 °C ± 10 °C, 30% - 85%, non-condensing
Weight	Laser head 7 kg Supply unit tabletop device 25 kg Supply unit 19" built-in device 22 kg
Dimensions L x W x H	Laser head 464 mm x 149 mm x 107 mm Supply unit tabletop device 488 mm x 190 mm x 580 mm Supply unit 19" built-in device 483 mm x 157 mm x 580 mm



Laser head



Supply unit tabletop device



Supply unit 19" built-in device