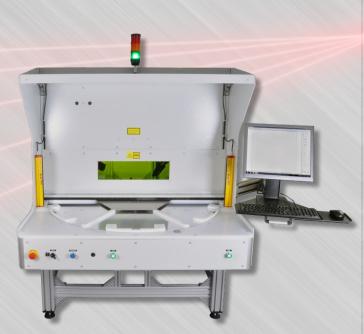


## LASERfibre LF-XL

Laser Marking Station with Fibre Laser and rotary carousel

- Diode pumped fibre lasers MediCom LASER fibre LF are a new generation of marking lasers with fibre as an active material and a set of reliable laser diodes as a pumping source. This new technology brings on much higher efficiency and therefore lower power consumption and lower cooling requirements. Lasers of type Laser fibre LF are cooled directly by air. There are no replacement parts and maintenance free design of the laser cuts down number and complexity of maintenance. Due to use of more pumping laser diodes, the reliability increased dramatically and reduced price of ownership of laser.
- Models LASERfibre LF are produced as a Q-switched lasers LF-Q with power up to 100 W designed for marking and engraving.
- Fibre lasers excels with beam quality and marking quality competes with more powerful diode Nd:YAG lasers. Due to fine spot (about 0.02mm) are useful for fine and precious marking and engraving.



Laser head is placed on the motorized axes Y and Z
Laser is fitted with scanning head with F-theta lens 420 mm and marking field 280x280 mm. Laser power, laser type, size of marking field which affecting spot size are optional.



Laser marking workstation type XL with 50 W fibre laser
Station designed with semi-automatic six positional rotating carousel,
fitted with calibrated holes for replaceable insertion devices.

- Type LF-XL is a standalone station with manual feeding. Size and design of the station together with rotating carousel of a diameter 1250 mm allows marking of large parts with a high productivity. The station is suitable for marking a single parts as well as series of thousands.
- A lot of accessories are available, for instance aiming beam, rotary axis, universal holders, RFID programmers, barcode readers, etc.
- Compact design, reliability and long lifetime of this model excels in marking of final components in industry as well as marking of parts and various materials like plastic and metals. Precious and fine marking is useful in all industrial applications.



## **TECHNICAL DATA OF LASER:**

Laser
Type: ytterbium fibre laser

Wavelength: 1064 nm

Pumping type: laser diodes

Power: LFXX-QXL

20, 30, 50, 100 W

Laser switching: Q-switched 100 ns pulses

Q-switched

1 mJ/pulse

Frequency: Q-switched

5 - 200 kHz

MTBF of laser diodes:

0 200 1012

> 100.000 hours

Scanning head

Principle: Galvanometric beam deflection in

X and Y axis

Type: Fast scanners

Marking speed: 0 - 4000 mm/s Resolution: 2 µm

Repetition accuracy: 25 µm

**Focusing optics** 

Cooling

Marking field: 160 x 160 mm

100x100 mm\*, 280 x 280 mm\*

Single line width: Typically 0.06 mm

(0.02-0.1 mm depending on optics

configuration)\*

Direct passive cooling

Water free

## **TECHNICAL DATA LASER fibre STATION VERSION "XL":**

Vertical feed Z System control Internal: Control system checks and Type: linear shift, stepper motor Control: sets all equipment operational electronic parameters Max. lift: 200 mm Horizontal feed Y Master control computer: Industrial PC, Intel Core i3 @ 3.1 GHz, 4 GB RAM, USB, SSD 80 Type: linear shift, stepper motor Control: electronic Max. lift: 400 mm LCD display, 19" Monitor: Ethernet 1000 Network: **Software** Other parameters Windows 7 100-240 V, 50/60 Hz Operating system: Power supply: 300-600 W Design software: CorelDraw Input: Control software: WMark 2012 - the marking IP54 Cover: control program, Windows Load capacity: Depending on design max. 100 kg environment, full setting Diameter of carousel:

## **SELECTED ACCESSORIES\*:**

Parts insertion:

Calibrated holes for replaceable insertion devices, sliding

T-squares prism

and functions

of all marking parameters

comprehensive set of commands

Exhausting system

Operating conditions:

Dimensions:

Weight:

Exhausting unit 1: 180 m3/h, power regulation

230 V, 1.3 kW

520 kg

Exhausting unit 2: 400 m3/h, no regulation

380 V, 3.4 kW

Other accessories

Refer to accessory product brochures and technical data

1400x1860x1800 mm [wxhxd]

Temperature 15 ÷ 33 °C, non-condensing humidity

\* Alternative or optional accessories



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