LASER*fibre* LF-t

Table Laser Marking Station with Fibre Laser

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 MTBF more than 100.000 hours reduced price of ownership of laser.

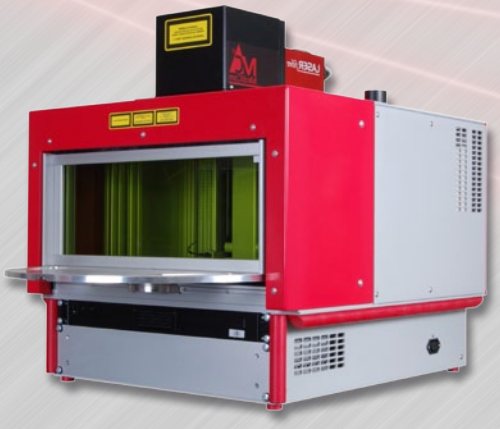
Models **LASER*fibre* LF** are produced as a Q-switched lasers **LF-Q** with power up to 50 W designed for marking and engraving. Fibre lasers excels with beam quality and quality marking competes with more powerful diode Nd:YAG lasers.

LF20QT table laser marking station
Q-switched with fibre laser 20W. Station is equipped with motorized linear Z-axis with programmable height of marking material.

Type **LF-t** is a standalone compact table station with manual feeding.

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. Precious and fine marking is useful in all industrial applications.

Open Cabine of table station
Motorized sliding doors, lined table with 520 mm, marking field 160x160 mm.



LF20QT table station
is equipped with two positional, manual carousel.

Technical data of laser:

Laser		
Type:	ytterbium fibre laser	
Wavelength:	1064 nm	
Pumping type:	laser diodes	
Power:	type LFXX-QT	20, 30, 50 W
Switching:	Q-switched	50-200 ns pulses 1 mJ/pulse
Frequency:	Q-switched CW	5-200 kHz CW modulation 0-100 kHz
MTBF:	Q-switched	> 100.000 hours

Scanning head	
Principle:	Galvanometric beam deflection in X and Y axes
Type:	Fast scanners
Marking speed:	0 - 4000 mm/s
Resolution:	2 µm
Repetition accuracy:	25 µm
Focusing optics	
Marking field:	160 x 160 mm 250 x 250 mm*
Single line width:	Typical 0.06 mm
Cooling	Direct passive cooling Water free

Technical data LASER*fibre* station version "T":

System control	
Internal:	Control system checks and sets all equipment operational parameters
Master control computer:	Industrial PC, Intel Core i3 @ 3.1 GHz, 4 GB RAM, USB, SSD 80 GB
Monitor:	LCD display, 19"
Network:	Ethernet 1000
Software	
Operating system:	Windows 7
Design software:	Corel Draw
Control software:	WMark - the marking control program, Windows environment, full setting of all marking parameters comprehensive set of commands and functions

Vertical feed	
Type:	Linear stage, step motor
Control:	Electronic, part height is entered in mm
Max. lift:	200 mm
Cabin door	
Type:	manual - manually opened/closed
Control:	automatic* - driven by step moto
Other parameters	
Power supply:	100–240 V, 50/60 Hz
Input:	300-600 W
Cover:	IP54
Dimensions:	600x550x630 mm [wxhxd]
Cabin dimensions:	520x305x390 mm [wxhxd]
Weight:	56 kg
Operating conditions:	Temperature 15˚ ÷ 33 ˚C, non-condensing humidity

Accessories*:

Rotary axe	
Drive:	Step motor, belt transmission
Resolution:	6000 steps per revolution
Rotary table	
Drive:	Manually driven
Resolution:	Two operating positions
Parts insertion:	Calibrated holes for replaceable insertion devices

Exhaust system	
Exhauster Type 1:	180 m³/h, power regulation 230 V, 1.3 kW
Exhauster Type 2:	300 m³/h, no regulation 380 V, 3.4 kW
Other accessories	Refer to accessory product brochures and technical data

* other accessories on request

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