

PULSED FIBRE LASER MARKING SYSTEM FOR CABLES

- Compact Size
- High Quality Marks
- Low Maintenance

FIBRE LASER FL20

APPLICATIONS

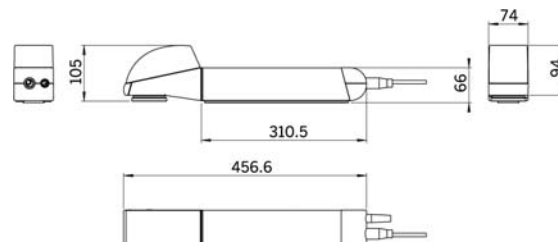
Clear and direct marking on a variety of plastic insulation of wires and cables at moderate speeds of 30 to 300 m/min (depending on the insulation material)

STANDARD CONFIGURATION

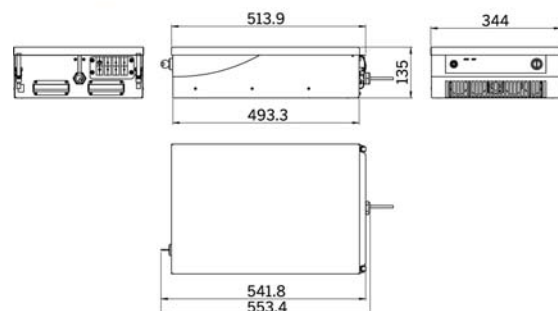
Ytterbium (Yb) pulsed fibre laser unit consisting of supply unit and marking unit. Protection unit on separate stand.

FEATURES

Compact and versatile pulsed fibre laser marker (20 Watt)
 Can be used reliably, quickly and economically.
 Compact, simple integration into cable production line.
 Smallest marking head on the market
 Tried-and-tested flexible software and hardware platforms.
 Air-cooled, highly efficient and maintenance-free laser source.



Versorgungseinheit (Alle Maße in mm)



INVISIBLE LASER RADIATION
 AVOID EYE OR SKIN
 EXPOSURE TO DIRECT OR
 SCATTERED RADIATION

MEDEK & SCHÖRNER GMBH
 Cable Marking Systems

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FIBRE LASER FL20

TECHNICAL DETAILS

LASER SOURCE

Ytterbium (Yb) pulsed fibre laser
Power class 20 Watt
Central emission wavelength: 1,060 – 1,070nm

LASER BEAM DEFLECTION

Digital high-speed galvanometer scan

LASER BEAM ORIENTATION

90-degree (standard)

FOCUSING (PRECISION OPTICS)

Focal lengths 10mm marking head: $f = 254\text{mm}$ (420mm)

USER INTERFACES

Integrated keypad
Smart Graph software on PC; configurable in 20 languages (option)

ELECTRICAL REQUIREMENTS

100 – 240 V (autorange), 250 VA, 1 PH, 50/60 Hz

ENVIRONMENTAL PROTECTION

IP54S, air cooled
5 – 40c (40–105F) / 10 – 90 %, non-condensing

WEIGHT

Supply unit – 17kg / 37lbs
Marking unit 10mm – 6kg / 13lbs

MARKING FORMATS

Standard fonts (Windows TrueType/TTF;PostScript/PFB; OpenType/OTF) and individual fonts, such as high-speed or OCR
Machine-readable codes: ID-MATRIX;ECC plain;
BARCODES/ –stacked omnidirectional/ –limited [CCA/B]/ expanded Graphics/ graphic components, logos, symbols, etc.(dxf, jpg,ai)

SMART GRAPH

ActiveX software interface for integration to operation software
Graphics-orientated user interface under Windows XP/Vista for intuitive and fast preparation of complete marking jobs
Text / data / graphics / parameter editor
Easy access to standard CAD and graphics programs using import functions for file formats: dxf, jog, ai, etc.
WYSIWYG / Various password-protected security levels

COMMUNICATION

Ethernet (TCP/IP,100Mbit LAN), Rs232, digital I/Os
Inputs for encoders and product detector triggers
I/Os for start, stop, external error, job select, trigger, trigger enable, encoder; system ready, ready to mark, marking, shutter closed, error, bad, good signals and machine/operator interlocks
Customer-specific solutions