

REA JET

INDUSTRIAL CODING AND
MARKING SOLUTIONS -
MADE IN GERMANY

REA JET Fiber Laser FL Tamper-Proof Marking with Light



Innovative Marking and Coding Solutions for Industry



Industrial marking with Fiber Laser systems from REAJET offers a distinct advantage: it is consumable and virtually maintenance-free, i.e. it involves low operating costs. Working with the REAJET FL Fiber Laser Marking System is simple and intuitive. It has a graphical operating panel, using a modern rotary knob with push-button function.

Unique in the world is just one overall operating concept, used for both the REAJET laser and the REAJET ink-jet systems, using a single set of interfaces! Parallel user interfaces therefore enable your operating personnel to take charge of several methods of marking. And that will save you both money and time.

The compact design and the easy to rotate marking head of the REAJET FL allow for simple mechanical integration. Included in delivery is a pilot laser that ensures the system is swiftly set up for operation with new products. New Generation digital beam deflecting mirrors provide for the highest possible operating speed, but with enough capability in reserve.

Operation of, or training on, the REAJET FL, using a PC – as well as remote maintenance by PC – is made possible by means of its integrated VNC server. No matter where you are, by means of the integrated web server you are able to control your REAJET marking system from any web browser available; there is no need to install further software. The remote maintenance tool for remote diagnostics and support is included in delivery.

Possible applications of the REAJET FL are

- engraving and annealing metals
- colour inscription of untreated and with additives transferred plastics
- day and night design
- coated substrates

Advantages of Fiber Laser: REAJET FL

- single overall operating concept, for both laser and ink-jet marking
- easy-to-learn and intuitive operation (graphical user interface)
- integrated VNC server and web server, for remote diagnostics and maintenance
- clear presentation of laser parameters with guided input and result preview
- Pilot laser included in delivery
- easy integration, due to compact design
- digital beam deflecting mirrors, allowing highest possible operating speed



FL Controller Unit

FL Operating Terminal



FL Laser Unit

Technical Specifications

FL Laser Unit	FL 10	FL 20	FL 30	FL 50
Laser Type	Diode-pumped, air-cooled, pulsed Fiber Laser with integrated Pilot Laser			
Laser Power	10 W	20 W	30 W	50 W
Pulse energy	1 mJ			
Optimum pulse energy	10 kHz	20 kHz	30 kHz	50 kHz
Variable pulse frequency	2 kHz - 200 kHz			
Pulse length / Wave length	100 ns / 1064 nm			
Beam quality	M ² - 2.0 (optimized for marking)			
Focusing lense	FL 100	FL160	FL 255	
• Distance to product	98 mm	176 mm	292 mm	
• Marking area (L x H)	65 x 65 mm*	110 x 110 mm*	180 x 180 mm*	
Mirror control	Digital, giving highest marking speed			
Dimensions (L x W x H)	420 x 70 x 82 mm			
Weight	1.5 to 2.5 kg (depending on focusing lense)			

* unlimited marking length with moving products

FL Operating Terminal	FL 10	FL 20	FL 30	FL 50
Display	5.7 inch, high-resolution graphics display, 6 LEDs for direct display of status			
User Interface	Intuitive operation via keypad and rotary knob with push-button function			
Languages	To be freely chosen			
Dimensions (W x D x H)	302 x 230 x 66 mm			
Weight	2.7 kg			

FL Controller Unit	FL 10	FL 20	FL 30	FL 50
Communication	Ethernet, USB, RS232			
Digital I/Os	2x 6 Inputs, 2x 4 Outputs - freely configurable			
Accessories	Extraction Units, Encoders, I/O-Kits, Product Sensors, Safety Kits, Signal Lights			
Safety	Interlock (Dual-channel safety circuit)			
Ambient conditions	5 - 40 °C, humidity 5 - 85 % not condensed			
Stromversorgung	95 - 250 V AC (Aurorange) 50/60 Hz			
Dimensions (W x D x T)	160 x 580 x 400 mm (umbilical between laser unit and controller unit: 3 m)			
Weight	21 kg			

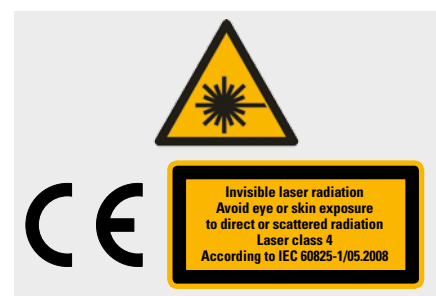
Layout	
Layout Software (Windows® based)	REA JET Label Creator
Marking Content	Text, Date, Shift, Time, Counter, Logo, Barcode, 2D-Code, Linear-, Circle- and Cornermarking etc.
Direction of Marking / Marking speed	To be freely chosen / up to 20,000 mm/s
Marking format	True Type fonts, Laser-optimized fonts, Custom fonts



Marking of plastic parts



Marking of metal parts



Laser class 4

REA JET



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