

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 REA JET offers a distinct advantage: it is consumable and virtually maintenance-free, i.e. it involves low operating costs. Working with the REA JET 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 REA JET laser and the REA JET inkjet 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 REA JET 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 REA JET 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 REA JET 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 REA JET FL are

- Engraving and annealing metals
- Colour inscription of untreated and with additives doped plastics
- Day and night design
- Coated substrates

Advantages of Fiber Laser: REA JET FL

- Newest compact lens technology
- Single overall operating concept, for both laser and inkjet 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
- Ethernet communication with unique communication protocols for both laser and inkjet systems



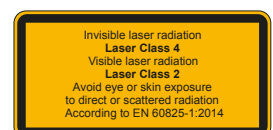
FL Controller Unit



FL Operating Terminal



FL Laser Unit



Technical Specifications

FL Laser Unit	FL 20	FL 30	FL 50
Laser Type	Diode excited, air-cooled, pulsed fiber laser with integrated pilot laser		
Laser Power	20 W	30 W	50 W
Pulse energy	1 mJ		
Optimum pulse energy	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 Lens	FL 100	FL160	FL 255
• Distance to product* / Marking area (L x H)	98 mm / 65 x 65 mm**	176 mm / 110 x 110 mm**	292 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 product	** unlimited marking length with moving product		

FL Operating Terminal	FL 20	FL 30	FL 50
Display	5.7 inch, high-resolution graphics display, 6 LEDs for direct display of status		
User Interface	Intuitive Benutzerführung über Tastatur und Drehknopf mit Tastfunktion, Unicode basierende Texteingabe		
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 20	FL 30	FL 50
Communication	Ethernet, USB		
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		
Power Supply	95 - 250 V AC (Autorange) 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		

Object-oriented Layout Software (Windows® based) REA JET Label Creator

Marking Content Text-Objects optional with multiple contents and word wrap • dynamic textfields (Date, Shift, Time, Counter, Reference, buffered Text-Objects) • Linear-, Circle-, Oval- and Cornermarking etc.
 • Logo, numerous 1D + 2D-Codes incl. input wizard for GS1 and other standards

True Type fonts incl. laser-optimized fonts • Object-related assignment of marking parameters
 • User defined object selection for Pilot laser • User defined marking order at a standstill and optimized marking order „on the fly“

 **NiceLabel** Compatibility: transfer of Software NiceLabel print layouts using REA JET's own printer drivers.

 **TITAN** The REA JET TITAN Platform. The single operating concept for all REA JET technologies.



Marking of plastic parts



Marking of metal parts



Marking of medical instruments

REA JET



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