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 IET 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







Invisible laser radiation
Laser Class 4
Visible laser radiation
Laser Class 2
Avoid eye or skin exposure
to direct or scattered radiation
According to EN 60825-1:2014

CE



FL Laser Unit



Technical Specifications

* unlimited marking length with moving product

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)			

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 Inferface	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			

** unlimited marking length with moving product

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)	$160 \times 580 \times 400 \text{ mm}$ (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

NiceLabel compatibility: transfer of NiceLabel print layouts using REA JET's own printer drivers.



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







Marking of metal parts

Marking of medical instruments

REA JET





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