

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



REA JET

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
\bullet 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 w	ith moving product	
FL Operating Terminal	FL 20	FL 30	FL 50
Display	5.7 inch, high-reso	olution graphics display, 6 LEDs for dire	ect 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		
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 Softwa	are (Windows® based) R	EA 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"		
Loftware NiceLabel print layouts using REA J	FLoftware NiceLabel ET's own printer drivers.	The REA JET TITAN Platform.	: for all REA JET technologies.
900824 ABCD0123<< 012345 012345T5	Germany 129 565 4	KYS	

Marking of plastic parts

Marking of metal parts

Marking of medical instruments







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