FIBER LASER MARKING SYSTEM

Fast Line +

VA INSTRUMENTS

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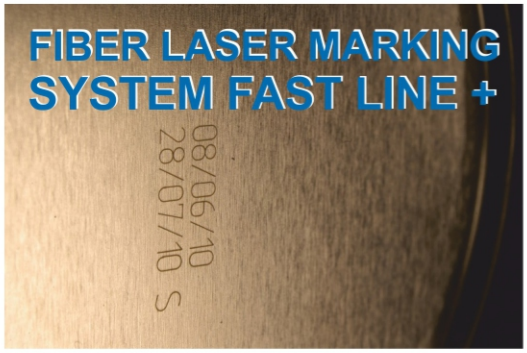

Fast Line+ laser marking systems use maintains-free pulsed ytterbium fiber laser which does not need water cooling and provide the best possible quality in marking products made of metals and absorbing plastics as well as coated products. Markers of this series are ideal for marking metal cans and lids as well as pharmaceuticals and other products packed in foil or tubed. The use of lasers with the average power ranging from 10 to 40 watts allows optimize system configuration and provides high marking speed for a wide range of products.

CHARACTERISTIC FEATURES:

- easy to install;
- easy to operate;
- easy to maintain;
- guaranteed 24/7 quality of marking without the need for human intervention;
- variety of laser coding head options and application-specific system modifications;
- possibility mounting of coding heads in hard-to-reach places of production lines;
- hand-held remote control;
- user-friendly interface;
- software efficiently handling complex tasks including graphics;
- protection rating Ip54;
- maintains-free highly reliable fiber laser.

SPECIFICATIONS	
Line speed	Up to 100 m/min
Standard coding head FL 100:	
Marking field / marking distance	ø 80 mm / 110 mm
Line weight	0,05 - 0,3 mm
Other coding head options:	
Marking field / marking distance	Up to 175x175 mm / up to 277 mm
Line weight	0,05–1,0 mm
Max. number of text lines	Depends on font size
Character height	1–60 mm (up to mark field size)
Print orientation	Arbitrary
SUPPLY UNIT DETAILS	
User interface	LCD touch-screen
Software	Software package compatible with Windows 7
Password protection	3 protected levels: operator, line supervisor, maintenance person
Start - stop mode	+
Constant marking speed	+
Variable marking speed	+
High-speed printing	+
Diagnostics and troubleshooting systems	+
PRINTING AND PROGRAMMING FACILITIES	
Available fonts	9 optimized fonts, other fonts can be added
Real time with offset	Hh:mm, hh:mm:ss
Date stamp with offset	+
Custom date and time formats	+
Shift code	+
Count	+
Increment/decrement of batch number	+
Graphics edit, bar codes	+
DESIGN FEATURES	
Materials	Durable plastic, stainless steel, aluminium with protection coating
Weight: Marking head Electronic unit	6 kg 25 kg
Conduct length	3 m
Cooling	Air cooled
Supply voltage	240V ±10%
Power consumption	0,8 kW
LASER DETAILS	
Laser type	Pulsed ytterbium fiber laser
Max. laser output	10 W, 20 W, 50 W
Life time	50 000 hrs
Wave length	1,06 µm
ENVIRONMENT DETAILS	
Operating temperature	5 to 40°C (70% duty cycle at maximum temperature)
Storage temperature (power is off)	-10 to 70°C
Allowable humidity	10–90% (non condensing)
INTERFACING	
Interface ports	System sensor, speed sensor, USB
Computer interface	Ethernet
GABARITES (L, W, H)	
Electronic unit	563x210x479,5 mm
Touch-screen	276,5x148,9x214,5 mm
Marking head	285,4x163x324(262) mm

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