



Industrial
coding and
decoration on
metals and
plastics

LASER SYSTEM | F - 9000

The F-9000 series with the 10 Watt/ 20 Watt performance classes offers maximum functionality and availability for durable marking of industrial goods in the most compact size possible. With the F-9000 series in combination with the Marca PC software, you can meet virtually any requirement from simple markings (text, date, time etc.) and bar codes and data matrix codes through to decorative labeling with logos etc. The F-9000 series is equipped with an Ethernet interface and a highspeed write head for high writing speeds as standard. Marking

of the product can be performed either in stationary mode or when the product is on the move. Thanks to "marking on the fly", information can be applied directly to the product even at high production speeds as the cumbersome buffering of data is not required. The F-9020 Film version is specially designed for marking films.

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- Area up to 200 x 200 mm
- Easy to operate
- Coding of plastics by color switch
- Coding of metal bij gravure or tempering



Technical data

Output:	10 Watt / 20 Watt															
Connection values:	F-9010 (10 Watt): 230 V; 50 / 60 Hz – 400 Watt F-9020 (20 Watt): 230 V; 50 / 60 Hz – 500 Watt F-9020 Film (20 Watt): 230 V; 50 / 60 Hz – 500 Watt															
Structure:	Laser, scanner and scanner control in laser head, Control electronics and electrical connection integrated in control unit. Red pilot laser (standard).															
Software:	PC software, pocket terminal, touchscreen terminal, Simple text creation via PC software with Windows user interface (2000/XP), WYSIWYG display, free choice of character size, different date and time formats, serial numbering or text adaptation, barcodes, 2D codes, database printing, logos or graphics loadable in IMG or DXF format, True Type Fonts, Unicode, MFF font, Crystal Fonts 7 x 5, 5 x 5, variable writing speed, intermittent and continuous printing.															
Interfaces:	Ethernet TCP/IP, RS 232															
Cooling system:	Integrated air cooling system															
Environment:	Temperature + 10° to + 40° C, relative air humidity: max. 90 %, non-condensing.															
Options:	21 CFR Part 11															
Weight:	Laser head: approx. 5 kg; control unit: approx. 21 kg															
Coding field:	<table border="1"> <thead> <tr> <th>Focal distance of lens</th> <th>work area</th> <th>dot diameter</th> </tr> </thead> <tbody> <tr> <td>100 mm</td> <td>55 x 55 mm</td> <td>27 µm</td> </tr> <tr> <td>162 mm</td> <td>100 x 100 mm</td> <td>53 µm</td> </tr> <tr> <td>254 mm</td> <td>160 x 160 mm</td> <td>80 µm</td> </tr> <tr> <td>346 mm</td> <td>200 x 200 mm</td> <td>100 µm</td> </tr> </tbody> </table>	Focal distance of lens	work area	dot diameter	100 mm	55 x 55 mm	27 µm	162 mm	100 x 100 mm	53 µm	254 mm	160 x 160 mm	80 µm	346 mm	200 x 200 mm	100 µm
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Laser head dimensions:	442 x 107 x 97 mm, D x W x H															
Control unit dimensions:	482 x 448 x 169 mm, L x W x H															

Subject to technical modification