



Laser Marking Systems
Laser Safety Housing LSG 100



For integration of

DPLMagic Marker	F-Theta Linse: 100 / 163 / 254
DPLGenesis Marker	F-Theta Linse: 100 / 163 / 254
DPLNexus Marker	F-Theta Linse: 100 / 163 / 254
Faserlaser FL10, FL20	F-Theta Linse: 100 / 160 / 254

Laser protection class	1
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Pneumatic setup door	Standard
Illumination of internal marking area	Standard
Max. working table size L x W	900 x 400 mm base plate with t-grooves
Max. height of workpiece f = 100	530 mm
f = 160/163	470 mm
f = 257	315 mm
Semi-automatic focus finder adjustment	Standard
NC Z-axis with ball bearing spindle	Standard
Stepper motor driven Z-axis adjustment	460 mm
Installation options	2 x 19", 4HE Installation frame with lockable front door
Input and output device	Swinging arm for holding keyboard and monitor
Processing control	Integrated

Bedienpultfunktionen

Start marking
Open door / Stop marking
Z-axis up / down
Automatic / Manually operated
Control on
Pneumatics on
Focus finder on
Light on
Emergency Stop
Main switch

The laser safety housing LSG 100 enables to mark workpieces inside the marking area of the laser (110 x 110-180 x 180 mm) according to laser protection class 1. The laser cell eliminates any risk of laser radiation to the operator's skin or eyes.

The integrated focus finder used to adjust the focal length ensures a fast setup time for marking products of different sizes. Focus finder adjustment is controlled by means of a stepper motor driven Z-axis from two push buttons in the integrated operation panel or by a serial interface at the PC. Backlash free z-axis adjustment with ball bearing spindle and guide is ensured.

The laser marking area may be internally illuminated for user observation. The laser safety housing LSG 100 includes integrated vacuum piping for extraction of particles and contaminants created during laser marking.

Different accessories required during the marking process may be clamped right-angled to the marking area on the base plate. Furthermore, the working area is air-conditioned.

The housing is made out of solid sheet metal and may be moved either on rollers or placed on machine mounting pads.

The machine's substructure includes an integrated 19" PC. Moreover, a swinging arm provides support of keyboard and monitor for the operator's ease and convenience

Indicator light	Machine on Error
Integrated vacuum piping	Provided for DN 50
Laser inspection window LxW	100 x 98 mm for Nd: YAG @ 1064 nm
Housing	Steel plates
Machine's setting	On rollers or on damped machine mounting pads
Color coating	Standard structural color coating RAL 7035

Measures

Dimensions L x W x H	1050 x 1000 x 2278 mm
Gewicht	395 kg

Operation

Power supply	85-240 Volt 50/60 Hz
Power consumption	max. 500 Watt



Part No.	Description
5524657	Laser Safety Housing LSG 100/220V FL
5524995	Laser Safety Housing LSG 100/110V FL
5524666	Laser Safety Housing LSG 100/220V DPL
5524990	Laser Safety Housing LSG 100/110V DPL

Contents of delivery: Safety housing LSG100, operation panel, z-axis, set of cables, documentation

Options

Part-No.	Description
5905933	NC-turning axis
5905978	chuck jaws
5906614	External fume extractor with activated carbon filter
5905818	Accessories to control air flow: Hose
5524053	Pneumatic positioning axis
5xxxxxx	Loading device
5xxxxxx	Climate control unit DPL
5xxxxxx	Air heat exchanger FL

All specifications about delivery, design and technical date are given to the best of our current knowledge and are subject to change without prior notice.

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