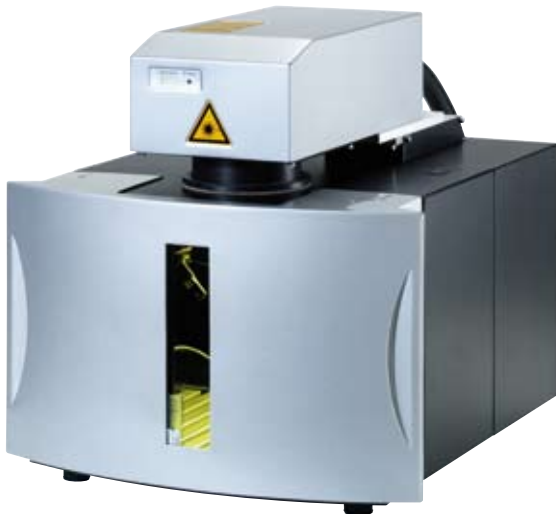


Laser Marking Systems
Laser Safety Housing LSG 30

Laser Safety Housing LSG 30



The laser safety housing eliminates any risk of laser radiation to the operator's skin or eyes to laser protection class 1 specification during marking inside the working area of the laser (110 x 110 mm).

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 depth-axis from two push buttons in the external operation panel.

The laser marking area may be internally illuminated for user observation. The laser safety housing includes integrated vacuum piping for extraction of particles and contaminants created during laser marking. The internal base plate provides for clamping of accessories needed during the marking process. Two switched power sockets for external accessories are provided on the rear panel of the safety housing.

Cable installation between laser and laser safety housing is daisy chained and interlocked to ensure user safety during laser operation. The aluminum safety housing is colour-coated in black and silver.

Technical Features

Laser safety housing integrates with the diode-pumped solid state laser system Nd:YAG DPLMagic Marker L1-163-P (resolution 725 dpi, marking area 110 x 110 mm), to meet laser protection class 1 specification
Electrical z-axis with stepper motor drive
Backlash free Z-axis adjustment with ball bearing spindle and guide
External push button operator panel adjusts: z-axis „up“, z-axis „down“, focus finder „On“, Laser „Start“
Focus finder based on 2 clamped laser pointers with intersecting beams
Illumination of internal marking area with On/Off switch
Maximum component size 335 x 300 x 150 height mm (with lens F-Theta 163)
Anodised aluminum base plate with t-grooves for workpiece clamps
Integrated vacuum piping D =30 mm with conical flange to be connected to an external fume extractor
Safety-switch controls user access to set-up door
Workpiece inspection window 50 x 200 mm eliminates Nd:YAG laser reflections of 1064 nm
Main switch for laser and laser safety housing on the rear panel
Two integrated switched sockets connection of external equipment
Daisy chained energy and data cable connectors between laser safety housing and DPLMagic Marker
Wide range power supply input to connect the system to different voltage supplies
Power cable with European plug
Steel housing color coated in black with plastic door colour coated in silver grey
Rubber machine mounting pads with height adjustment
12 months warranty

Dimensions in mm

without Laser L x W x H	520 x 440 x 300
with Laser L x W x H	610 x 440 x 525
(axis in low position)	

Weight

without laser	32 kg
with laser	40 kg
Tare weight	37 kg

Operation

Operating voltage	85-240 Volt 50/60 Hz
Power consumption	max. 400 Watt

Options

	Rotary (no free interpolation), equipped with clamping ring or jaw chuck
	Z-axis PC controlled
	External fume extractor with activated-carbon filter and variable suction control
	Accessories to control air flow (f.e. injectors, hose, a.s.o.)
	Loading device, f.e. prismatic or flat
	Clamping device
	Square
	Slotted nuts
	Power cable with plug USA / U.K.
	Colour coordinated to customer's requirement



Part No.	Description
5523680	Laser Safety Housing LSG 30

Contents of delivery: Safety housing LSG 30, operation panel, set of cables, documentation

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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