

Solid State Laser and Fiber Laser Systems

Innovative - Economic - Precise - Fast ! Performance that make the cab solid state and fiber laser systems leading in this field. Excellent beam quality and output power provide variable markings on most diverse materials – and convince with outstanding resolution and quality.



DPLMagic/Genesis/Nexus Marker

Nd:YAG Solid State Laser

The most compact.



FL10 / FL20

Ytterbium Fiber Laser

The most reliable.

Laser Source	DPL <i>Magic</i>	DPL <i>Genesis</i>	DPL <i>Nexus</i>	FL10	FL20
cw power	5 Watt	7 Watt	12 Watt	10 Watt	20 Watt
Laser type	Diode pumped Nd:YAG active q-switched			Diode-pumped Ytterbium fiber active q-switched	
Wave length nm	1.064			1.062	
Beam mode	TEM oo			TEM oo	
Pulse width nsec	20 - 50			100	
Pulse frequency kHz	0,1 - 50			20 - 80	
Pilot laser	650 nm / 1 mW			650 nm / 1 mW	
Focus finder	□			■	
Laser protection class	4			4	
Fiber length m	–			5	3
Scan head	Turnable in both directions up to 100°			Possible to set up in horizontal or vertical direction	
Plano-spherical lens F-Theta	100	163	254	100	163 254
Focus length mm	128±3	220±4	400±6	124±5	187±5 348±5
Marking area Ø mm	70 x 70	110 x 110	180 x 180	70 x 70	110 x 110 180 x 180
Spot size Ø µm	25	35	50	25	35 50
△ Resolution dpi	1.000	725	500	1.000	725 500
Interfaces					
PC-Interfaces	Serial RS-232 C, Parallel Centronics			USB 1.0	
Laser Control Interface for	Laser operation ready, Start/End of marking, Laser Emission, Shutter/Chamber-Interlock			Laser operation ready, Start/End of marking, Laser Emission, Shutter/Chamber-Interlock	
Barcodes					
Linear barcodes	2 of 5, Codabar, Code 39, 93,128 A, B, C, EAN 8, 13, EAN/UCC 128			2 of 5, Codabar, Code 39, 93, 128, EAN, UPC	
2D-Barcodes	Data Matrix, PDF 417			Data Matrix, ECC200, QRCode	
Operation					
Supply voltage	100 - 240 VAC / 50-60 Hz			100 - 240 VAC / 50-60 Hz	
Power consumption Watt max.	450	550	600	350	450
Dimensions					
Height x Width x Depth mm	220 x 181 x 563	220 x 201 x 718	220 x 201 x 718	Steuerung 150 x 420 x 400 / Scankopf 110 x 170 x 330	
Marking Software					
Delivery includes extensive software package	Defines characters formats and imports different graphic elements; additional features as serial number, date and access to external data bases.				

Marking Laser Systems

Applications

For special applications cab provides "Add-On" equipment including Laser Safety Housing, Label Marker and Type Plate Marker. cab incorporates German engineering and designs for future markets around the World.



LSG 100



LSG 30



LM



THS

Laser Safety Housing

Including integrated control unit, automatic set-up door and 19" PC

Laser Safety Housing

Compact desktop version for small series

Laser Label Marker

Compact desktop unit for marking and cutting of labels

Type Plate Marker

For the fully automated marking of type plates

	LSG 100	LSG 30	LM	THS
Type of laser to be integrated	DPL / FL	DPL / FL	DPL / FL	DPL / FL
Laser protection class	1	1	1	1
Focal adjustment	stepper motor driven	stepper motor driven	fixed	fixed
Focus finder	■	■	–	–
Set-up door operated	automatically	manually	manually	manually
Operating panel	integrated	external	integrated	integrated
Inside illumination	■	■	■	–
Indicator light	■	–	–	■
Preparation fume extraction	■	■	■	■
Airconditioned	■	–	–	–
	marking area: 900 x 400 mm max. height of work piece 400 mm by using F-Theta 163	marking area: 335 x 300 mm max. height of work piece 150 mm by using F-Theta 163	max. label height 180 mm width of label 120 mm Roll diameter 300 mm	max. size of plate W x H 100 x 50 mm Thickness of plate 0,5 - 3 mm Height of stack 250 mm
Periphery				
Fume extractor	□	□	□	□
Rotary axis for marking cylindrical bodies	□	□	–	–
Pneumatic axis	□	–	–	–
Loading device	□	□	–	–
Cutter	–	–	□	–
External rewinder	–	–	□	–
Output device for individual orders	–	–	–	□

■ Standard □ Option