

## Galvo Scanner (DL.S30)

### Features

The galvo scanner DL.S30 is a fast 2-axis beam deflection unit used for quasi-simultaneous welding of polymers. It allows fast positioning of the laser focus in the working field without additional mechanical axes. Used along with the COMPACT Series, the galvo scanner is equipped with a fiber connector, collimating unit and sophisticated marking software.

### Package

Includes a mounting plate and fiber-coupled collimating unit, F-Theta optics, supporting marking software and power supply (galvo driver, galvo PC with software, monitor, keyboard and mouse).



### Device Specification

Optical		Units	DL.S30	
Wavelength		nm	800 - 1000	
Optical Output Power		W	<500	
Focal Length <sup>1</sup>		mm	254	635
Working Field		mm <sup>2</sup>	115 x 115	250 x 250
Spot Size (200 µm)		mm	.09	1.5
Spot Size (400 µm)		mm	1.8	3
Transmission <sup>4</sup>		%	>90	>90
Fiber Parameters				
Fiber Connector Type <sup>2</sup>			SMA, RQB or QBH	
Numerical Aperture		NA	0.22	
Thermal Parameters				
Ambient Temperature		°C	+15 to +35 (non condensing)	
Storage Temperature		°C	5 to +50	
Mechanical of Galvo Scanner				
Dimensions <sup>3</sup>		mm <sup>3</sup>	305 x 240 x 160	
Weight <sup>3</sup>		kg	~8	
Galvo Driver				
Operating Voltage		V	200-240 Single Phase	
Frequency		Hz	50/60	
Power Consumption		kVA	0.020	
Dimensions		mm <sup>3</sup>	44 x 483 x 265	
Weight		kg	2.9	
Galvo PC				
Operating Voltage		V	110-240 Single Phase	
Frequency		Hz	50/60	
Power Consumption		kVA	0.07	
Dimensions		mm <sup>3</sup>	88 x 430 x 460	
Weight		kg	12	

<sup>1</sup>Consult DILAS Industrial Laser Systems for other available options.

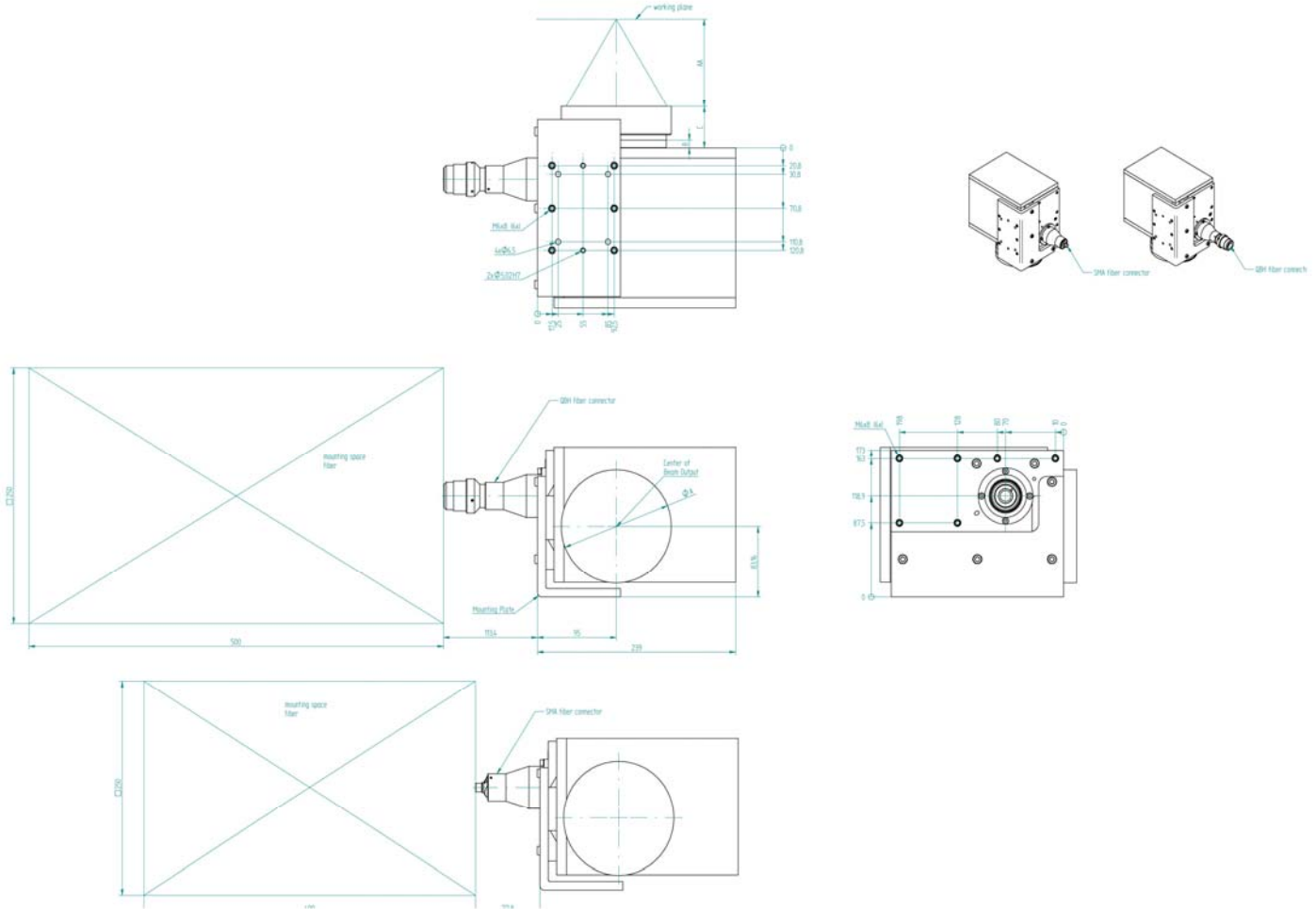
<sup>2</sup>Based on the COMPACT Series output power.

<sup>3</sup>DL.S30 with a mounting plate, QBH collimating unit and f=254mm.

<sup>4</sup>Based on 100% laser output power at fiber end of the NAO.22 fiber cable.

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### Package Dimensions



Optical Options DL.S30			
	f'=254mm	f'=420mm	f'=635mm
working distance AA [mm]	295,6	478,6	724,2
dimension A [mm]	130	136	133
dimension B [mm]	0	43,5	0
dimension C [mm]	68,5	58,5	48,9

fk=58 mm, optical aperture = 28 mm



#### U.S. CFR Regulation

The manufacturer and subsequent sale of laser equipment is under the guidelines governed by the U.S. Center for Devices and Radiological Health (CDRH). In accordance to those guidelines, specifically Subchapter J of the Radiation Standards, 21 CFR, the diode laser is registered as a CLASS 4 laser product.

#### European Commission

In accordance to EN 60825, Safety of Laser Products, the diode laser is registered as a CLASS 4 laser product.

Products specifications are subject to change without notice. For handling precautions, please reference the general handling instruction manual. For additional information, please contact your local sales representative or visit our website at [www.dilas-ils.com](http://www.dilas-ils.com).

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