

Galvo Scanner (DL.S20)

Features

The galvo scanner DL.S20 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.S20			
Wavelength	nm	800 - 1000			
Optical Output Power	W	<500			
Focal Length ¹	mm	80 (telecentric)	163	300	400
Working Field	mm ²	39 x 39	92 x 92	175 x 175	215 x 215
Spot Size (200 μm)	mm	0.45	0.9	1.6	2.2
Spot Size (400 μm)	mm	0.9	1.8	3.2	4.4
Transmission ⁴	%	>90	>90	>90	>90
Fiber Parameters					
Fiber Connector Type ²		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 ³	mm ³	270 x 240 x 145			
Weight ³	kg	~7			
Galvo Driver					
Operating Voltage	V	200-240 Single Phase			
Frequency	Hz	50/60			
Power Consumption	kVA	0.020			
Dimensions	mm ³	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 ³	88 x 430 x 460			
Weight	kg	12			

¹Consult DILAS Industrial Laser Systems for other available options.

²Based on the COMPACT Series output power.

³DL.S20 with a mounting plate, QBH collimating unit and f=163 mm.

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

