

Precision in the smallest of spaces



The GLcompact laser micro machining system is designed for applications which primarily require reliable positioning of the workpieces for further processing with scanner or spiral drilling optics, with less of an emphasis on highly dynamic operation.

It is distinguished by a very compact design and high degree of flexibility. Thanks to the use of state-of-the-art laser sources (fs and ps lasers) and the possibility of integrating all existing options, this machine can be used to serve the complete range of laser micro machining applications.

DIE HIGHLIGHTS

- working range 480 x 280 [mm]
- small setup area (< 3.5 square meters)
- weight-optimized design (< 3 tons)
- 3+2 axis machining
- 5-axis simultaneous machining for one well-defined application
- optimal accessibility for automation
- glass scales
- iron-free linear motors

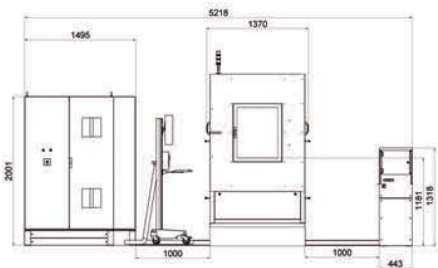
SPECIFICATIONS

axis	X	Y	Z	B	C
type of axis	linear	linear	linear	rotary	rotary
drive	linear drive			torque drive	
bearing	linear bearing			roller bearing	
travel [mm]	480	280	340	+/- 90°	continuous
speed 1)	30 m/min		60 m/min	700 rpm	700 rpm
acceleration 1)	5 m/s ²		20 m/s ²	160 1/s ²	220 1/s ²
repeatability	1 µm		3 µm	10 arcsec	
accuracy	2 µm		4 µm	20 arcsec	
rectangularity	< 10 arcsec			-	
max. weight of load	< 20 kg			0,5 kg	
clamping	drilling pattern			clamping system	
noise emission	≤ 70 dB				
dimensions [mm]	width = 1400 / depth = 2600 / height = 2650				

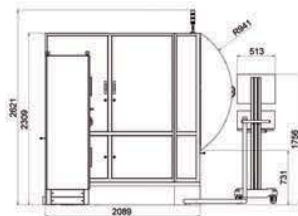
1) speed and acceleration in weight of load and clamping of 5 kg

MECHANICAL DRAWINGS

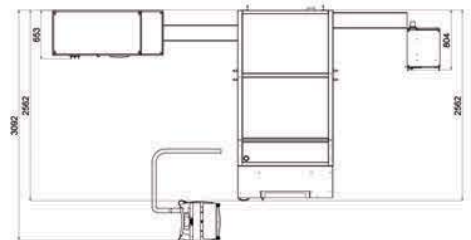
SIDE VIEW



FRONT VIEW



TOP VIEW



All measurements in mm