

The laser machine with a movement system for the workpieces

Available in 3 models (LS5-1, LS5-2, LS5-3), the LS5 has a large motorized door with a wide access to the processing zone and to the laser source area.

Its honeycomb or granite structure and its external enclosure completely insulated from the internal structure ensure high precision work without the risk of external interference.

This workstation can include all types of laser sources, in particular femtosecond sources for micromachining, or even several sources for greater flexibility.

Extremely precise tracks can be obtained at very high speed (several meters per second with acceleration ramps of only a few microns).



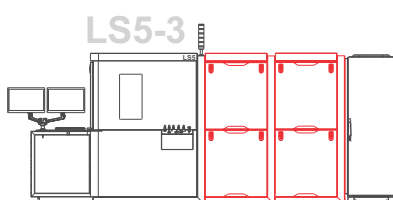
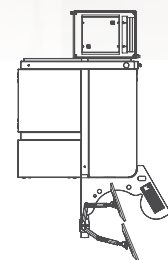
LS5-2



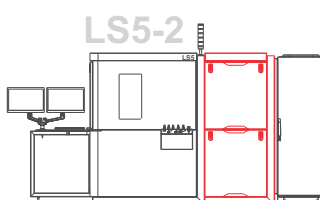
LS5-1



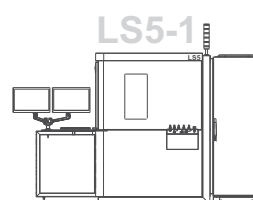
LS5-2



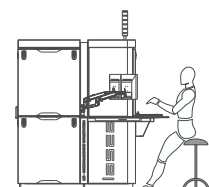
LS5-3



LS5-2



LS5-1



Specifications

Models	LS5-1	LS5-2	LS5-3
Available laser systems	Any laser source up to 1000 x 500 mm + LS-Shape + LS-Scan		Any laser source up to 1600 x 500 mm + LS-Shape + LS-Scan
Door opening	Motorized		
Control panel	Emergency stop & reset • Maintenance key • Start & Stop • Door opening		
Electrical cabinet	Cabinet separated from the machine		
Transportation	Integrated wheels (excluding electrical cabinet)		

Options

Fume extractor	Outside the machine • Active only during laser process
Quick positioning	Shape recognition, autofocus or 2 red pointers crossing at the right focal distance
On-axis Camera	Camera seeing through the laser beam path
Topography	Point or line sensor measuring the topography of the part before and after process
Customized automation	The LS5 can be especially designed for an application, including various automation or sensing features
Loading robot	Additional module inside the machine for automatic loading of plates and parts (autonomy over several shifts)
User interface	LS-HMI • KYLA™ • easyKYLA

Dimensions (H x L x D)

Machine	1950 x 1500 x 1500 mm	1950 x 1500 x 2300 mm	1950 x 1500 x 3100 mm
Safety window	580 x 290 mm		
Working Area	Depending on the application		
Electrical cabinet	1900 x 1400 x 600 mm		

Standard models	LS5 MOTION	LS5 MOTION ACCURATE	LS5 CNC	LS5 CNC ACCURATE
Honeycomb table with granite bridge • Isolated from the external enclosure	•			
Granite table with bridge • Isolated from the external enclosure		•	•	•
Motorized Z stage • 200 mm travel • 1 µm repeatability • 10 µm accuracy	•	•	•	•
Motorized XY stages • 400 x 300 mm travel • 1 µm repeatability • 10 µm accuracy	•		•	
Motorized XY stages • 400 x 300 mm travel • 0,75 µm repeatability • 2 µm accuracy		•		•
Motorized AC stages • Infinite x 110° travel • 50 µrad repeatability • 150 µrad accuracy			•	
Motorized AC stages • Infinite x 110° travel • 5 µrad repeatability • 15 µrad accuracy				•
Side camera	•	•	•	•