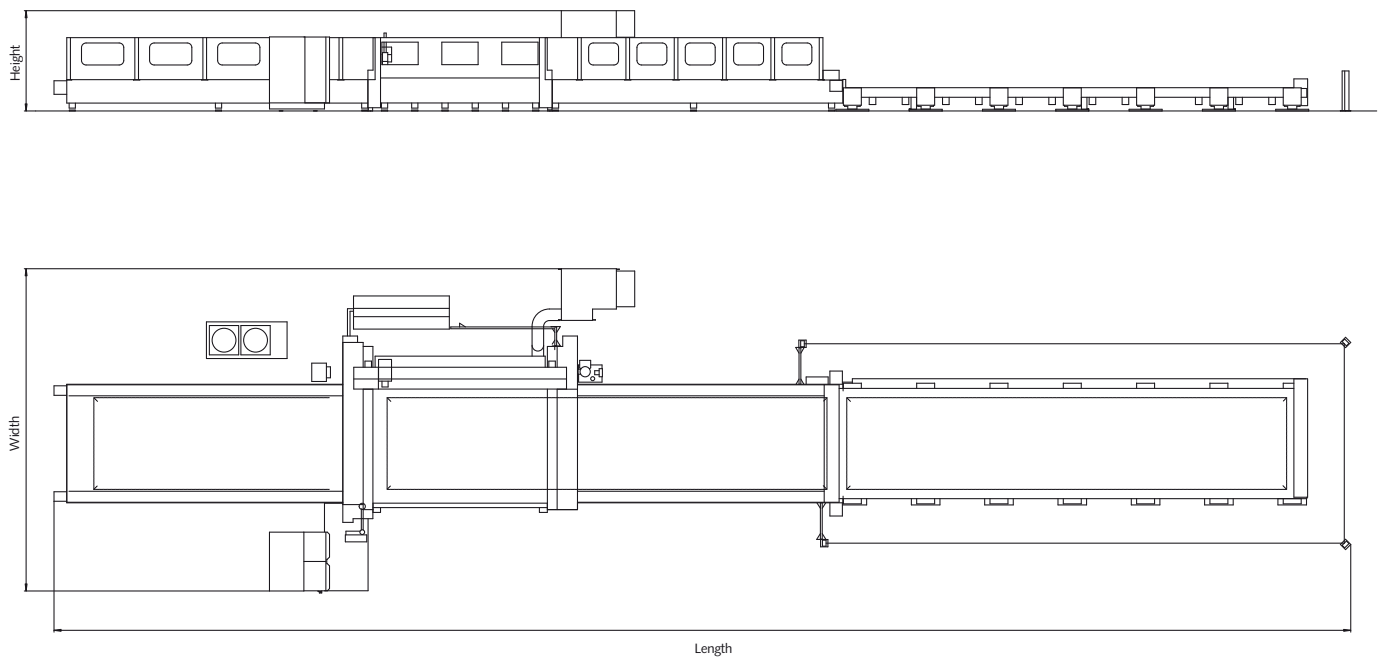


Technical Data

Bystar L



	Bystar L 4025-65	Bystar L 4025-80	Bystar L 4025-120
Length	19 000 mm	23 500 mm	35 500 mm
Width	8 000 mm	8 000 mm	8 000 mm
Height	3 000 mm	3 000 mm	3 000 mm

Laser cutting system	Bystar L 4025-65	Bystar L 4025-80	Bystar L 4025-120
Nominal sheet size	x = 6500 mm y = 2500 mm	x = 8000 mm y = 2500 mm	x = 12 000 mm y = 2500 mm
Cutting range	x = 6500 mm/ 256 in. y = 2540 mm/ 100 in. z = 170 mm/6.70 in.	x = 8000 mm/ 315 in. y = 2540 mm/ 100 in. z = 170 mm/6.70 in.	x = 12 000 mm/ 473 in. y = 2540 mm/ 100 in. z = 170 mm/6.70 in.
Maximum positioning speed parallel axis x, y	60 m/min	60 m/min	60 m/min
Maximum positioning speed simultaneous	85 m/min	85 m/min	85 m/min
Maximum axis acceleration	3 m/s ²	3 m/s ²	3 m/s ²
Positioning accuracy Pa *	± 0.1 mm	± 0.1 mm	± 0.1 mm
Repeatability Ps *	± 0.05 mm	± 0.05 mm	± 0.05 mm
Edge detection precision	± 0.5 mm	± 0.5 mm	± 0.5 mm
Repetition accuracy of the cutting table during repositioning	± 0.2 mm	± 0.2 mm	± 0.2 mm
Maximum workpiece weight	3200 kg	3900 kg	3550 kg
Machine weight **	32 000 kg	34 000 kg	44 000 kg
Base	normal, reinforced industrial floor according to assembly plan		
Cutting heads	5" and 7.5"	5" and 7.5"	5" and 7.5"
Cutting gas consumption	dependent on material		
Operation via panel	with 15" touchscreen, keyboard and manual control unit		
Drives	DVD-RW, USB 2.0		
Network connection	RJ45 connector 10/100 MBit/s		

CO ₂ laser source	Bylaser 4400	Bylaser 5200 ARC	ByLaser 6000
Output	4400 W	5200 W	6000 W
Wavelength	10.6 µm	10.6 µm	10.6 µm
Polarization	circular	circular	circular
Pulse frequency	1–2500 Hz	1–2500 Hz	1–2500 Hz
Maximum sheet thickness ***			
Mild steel	25 mm	20 mm	25 mm
Stainless steel	20 mm	15 mm	25 mm
Aluminum	12 mm	12 mm	15 mm
Maximum electric consumption of the total system ****	56 kW	61 kW	78 kW

* According to VDI/DGQ 3441 measuring length 1 m. The precision of the sheet metal part depends on the material in question and on its previous handling as well as on the table size and its warming.

** Complete laser cutting system with rotating table without suction, cooling equipment and automation

*** In order to cut the maximum thickness, the following conditions must be met:

- Optimally suspended and set laser cutting system
- The materials must be of the quality demanded by Bystronic (laser materials)

**** Entire system with suction and cooling equipment

Changes to dimensions, construction and equipment are reserved. ISO 9001 certified

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