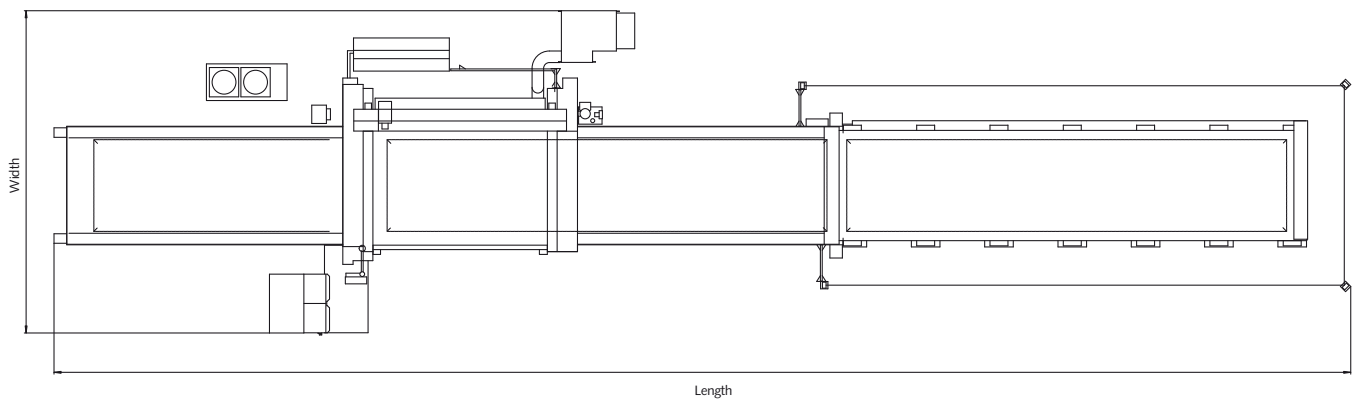
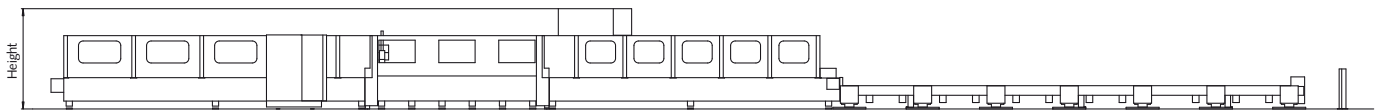


Technical Data Bystar L



	Bystar L 4025-65	Bystar L 4025-80	Bystar L 4025-120
Length	749 in	925 in	1398 in
Width	315 in	315 in	315 in
Height	120 in	120 in	120 in

Laser cutting system	Bystar L 4025-65	Bystar L 4025-80	Bystar L 4025-120
Nominal sheet size	x = 256 in y = 100 in	x = 315 in y = 100 in	x = 473 in y = 100 in
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	2365 in/min	2365 in/min	2365 in/min
Maximum positioning speed simultaneous	3346 in/min	3346 in/min	3346 in/min
Maximum axis acceleration	120 in/s ²	120 in/s ²	120 in/s ²
Positioning accuracy Pa *	± 0.004 in	± 0.004 in	± 0.004 in
Repeatability Ps *	± 0.002 in	± 0.002 in	± 0.002 in
Edge detection precision	± 0.020 in	± 0.020 in	± 0.020 in
Repetition accuracy of the cutting table during repositioning	± 0.008 in	± 0.008 in	± 0.008 in
Maximum workpiece weight	7065 lbs	8610 lbs	7835 lbs
Machine weight**	70,600 lbs	75,000 lbs	97,000 lbs
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	1.0 in	0.8 in	1.0 in
Stainless steel	0.8 in	0.6 in	1.0 in
Aluminum	0.5 in	0.5 in	0.625 in
Maximum electric consumption of the total system****	56 kW	61 kW	78 kW

* According to VDI/DGQ 3441 measuring length 39 in. 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

Bystronic Best choice.

Laser | Bending | Waterjet
bystronic.com