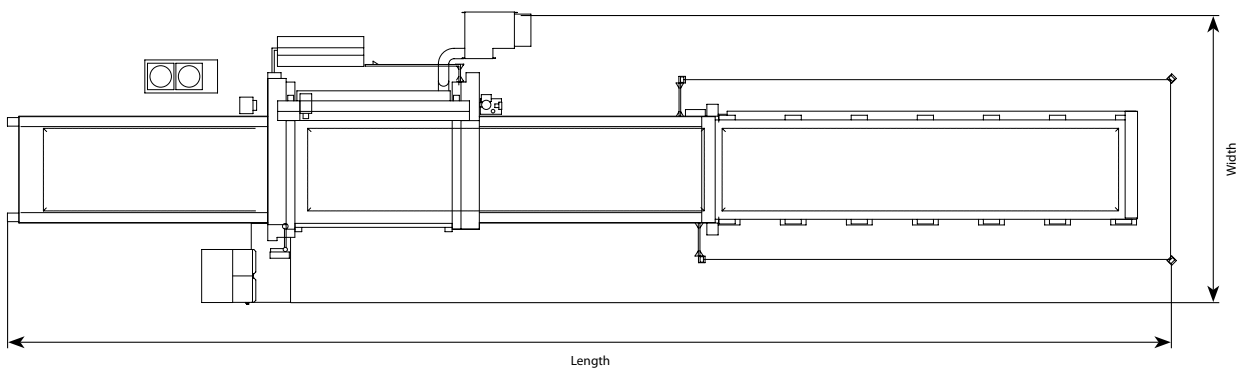
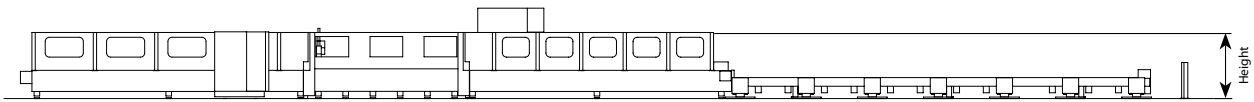


# Technical Data

## Bystar 4025/Bystar L



	Bystar 4025	Bystar L 4025-65	Bystar L 4025-80	Bystar L 4025-120
<b>Length</b>	14800 mm	18700 mm	23200 mm	35200 mm
<b>Width</b>	8050 mm	7500 mm	7500 mm	7500 mm
<b>Height</b>	2350 mm	2350 mm	2350 mm	2350 mm

Laser cutting system	Bystar 4025	Bystar L 4025-65	Bystar L 4025-80	Bystar L4025-120
Nominal sheet size	x = 4000 mm	x = 6500 mm	x = 8000 mm	x = 12000 mm
	y = 2500 mm	y = 2500 mm	y = 2500 mm	y = 2500 mm
Cutting area	x = 4064 mm	x = 6500 mm	x = 8000 mm	x = 12000 mm
	y = 2540 mm	y = 2540 mm	y = 2540 mm	y = 2540 mm
	z = 170 mm	z = 170 mm	z = 170 mm	z = 170 mm
Maximum positioning speed parallel axis x, y	60 m/min	60 m/min	60 m/min	60 m/min
Maximum positioning speed simultaneous	85 m/min	85 m/min	85 m/min	85 m/min
Maximum axis acceleration	3 m/s <sup>2</sup>	3 m/s <sup>2</sup>	3 m/s <sup>2</sup>	3 m/s <sup>2</sup>
Positioning accuracy Pa*	± 0,1 mm	± 0,1 mm	± 0,1 mm	± 0,1 mm
Repeatability Ps*	± 0,05 mm	± 0,05 mm	± 0,05 mm	± 0,05 mm
Edge detection accuracy	± 0,5 mm	± 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	1970 kg	3200 kg	3900 kg	3550 kg
Machine weight**	27 500 kg	32 000 kg	34 000 kg	42 500 kg
Foundation	normal, reinforced industrial floor according to assembly plan			
Cutting heads	5" and 7,5"			
Cutting gas consumption	depending on material			
Operation via panel	with 15" touch screen, keyboard and manual control unit			
Disk drives	DVD-RW, USB 2.0			
Network connection	RJ45 connection 10/100 Mbit/s			
ByVision (see separate datasheet for specifications)	standard			

Laser source	Bylaser 4400	Bylaser 5200 ARC	ByLaser 6000
Power	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 thicknesses***			
Steel	25 mm	20 mm	25 mm
Stainless steel	20 mm	15 mm	25 mm
Aluminum	12 mm	12 mm	15 mm
Total electrical consumption of 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 its pretreatment as well as the sheet size and its temperature

\*\* Entire system without exhaust and chiller

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

- optimally maintained and adjusted laser cutting systems
- the materials must be of the quality specified by Bystronic (laser materials)

\*\*\*\* Entire system with exhaust and chiller

The right to make changes to dimensions, construction, and equipment is reserved. ISO-9001-certified

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