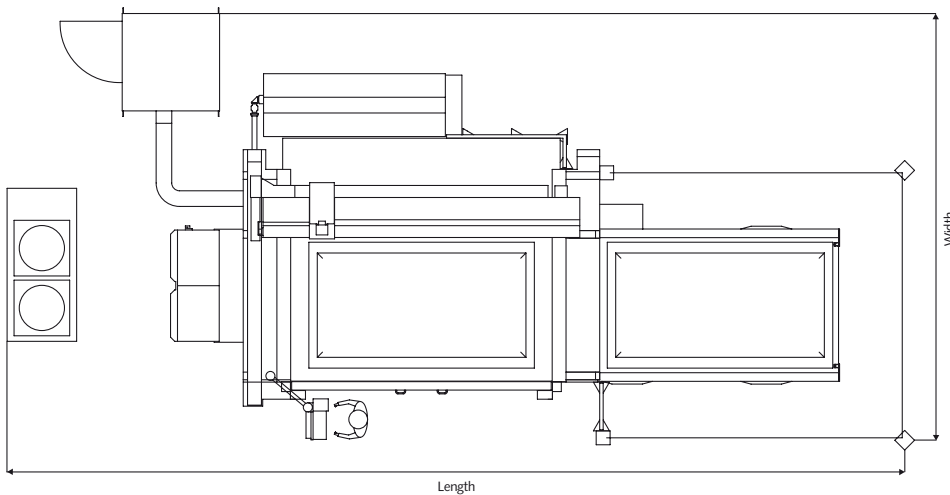
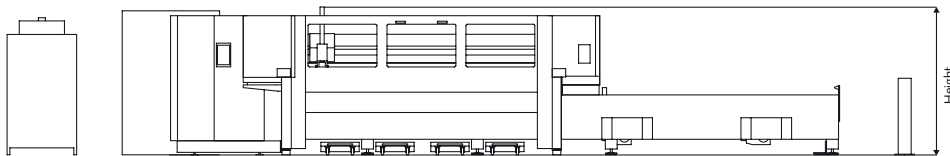


Technical Data Bystar

Bystar 3015



	Bystar 3015 *	Bystar 4020 *	Bystar 4025 *
Length	507 in	630 in	580 in
Width	240 in	264 in	370 in
Height	82 in	81 in	116 in

* with Bylaser 4400/5200 ARC
Measurements with other laser sources on request

Laser cutting system	Bystar 3015	Bystar 4020	Bystar 4025
Nominal sheet size	x = 120 in y = 60 in	x = 160 in y = 80 in	x = 160 in y = 100 in
Cutting range	x = 3048 mm/ 120 in y = 1524 mm/ 60 in z = 170 mm/6.70 in	x = 4064 mm/ 160 in y = 2032 mm/ 80 in z = 170 mm/6.70 in	x = 4064 mm/ 160 in y = 2540 mm/ 100 in z = 170 mm/6.70 in
Maximum positioning speed axis parallel x, y	3150 in/min	2362 in/min	2362 in/min
Maximum positioning speed simultaneous	4450 in/min	3346 in/min	3346 in/min
Maximum axis acceleration	177 in/s ²	118 in/s ²	118 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
Maximum workpiece weight	1962 lbs	3484 lbs	4340 lbs
Machine weight **	29,800 lbs	40,350 lbs	59,600 lbs
Possible laser sources			
Bylaser 4400	•	•	•
Bylaser 5200 ARC	•	•	•
ByLaser 6000	•	•	•
Base	normal, reinforced industrial floor according to assembly plan		
Cutting heads	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	1.000 in	1.000 in	1.000 in
Stainless steel	0.750 in	0.750 in	1.000 in
Aluminum	0.500 in	0.500 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 its previous handling as well as 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 systems
- 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