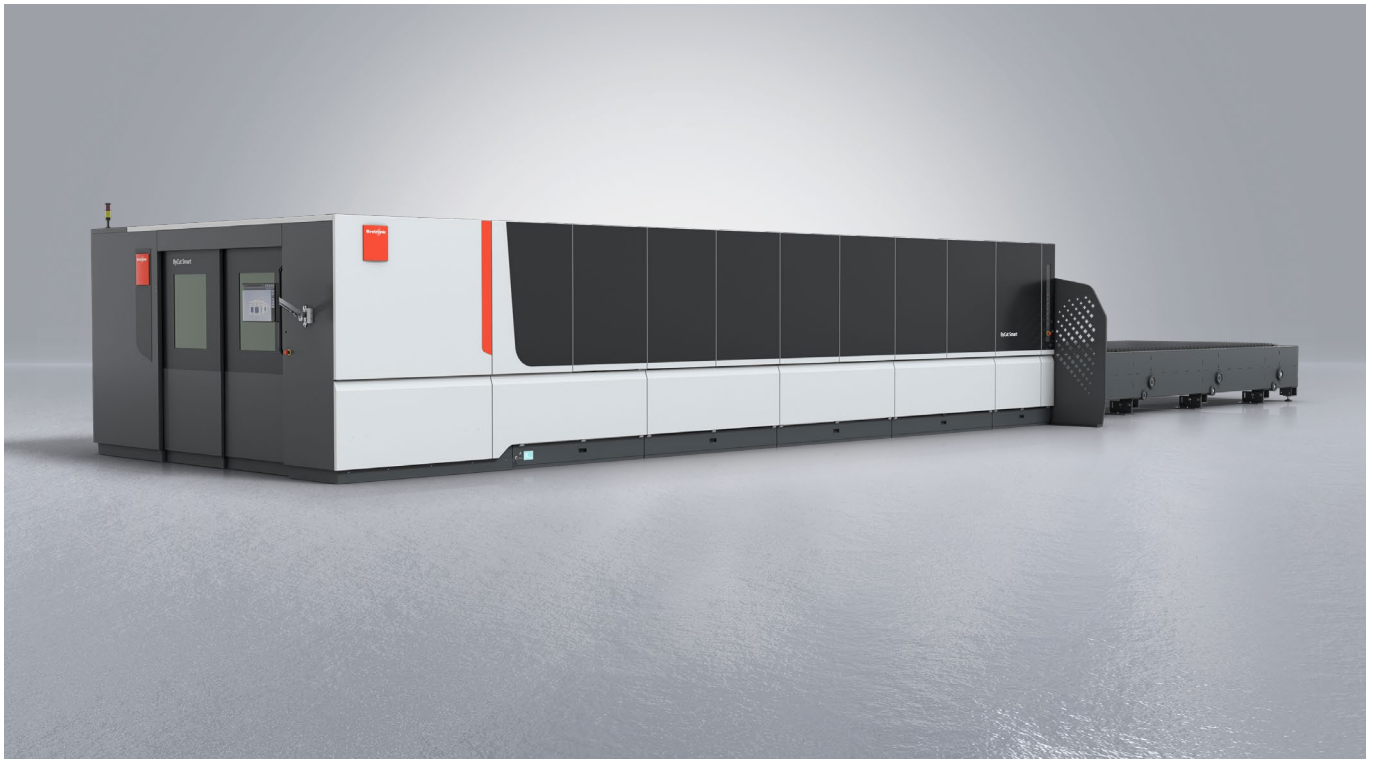




ByCut Smart 6225

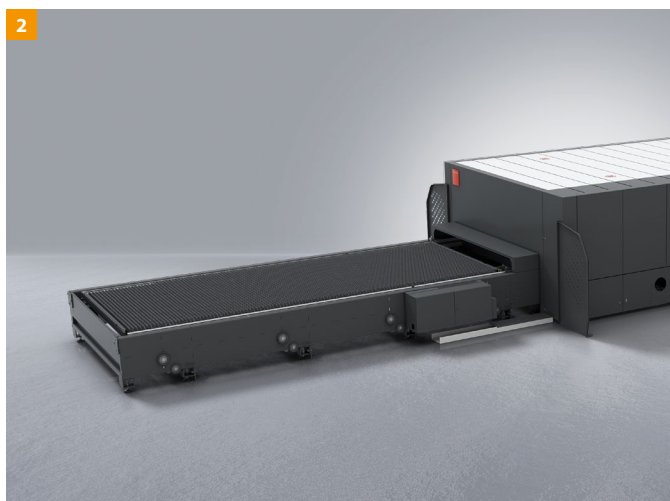
High productivity and performance in the XXL format at a favorable price

Customer benefits

- High degree of material utilization thanks to a cutting length of up to 244.09 inch and a width of 98.42 inch. Cut not only large parts, but also many small parts with high efficiency thanks to outstanding nesting processes.
- High-end productivity: More parts per cycle. Cut a wide range of materials without interrupting the cutting process hence reducing non-productive time.
- High productivity and performance in the XXL format at a favorable price.
- The latest version of the high-performance Bystronic cutting head excels with maximum precision and high speed thanks to laser outputs of up to 12 kW.
- Using a 21.5-inch touch screen, Bystronic's ByVision Cutting software is operated just as simply as a smart-phone. Ease of use and an intuitive user interface guarantee excellent results even when operators are inexperienced.



- 1 Now available in the 21.32 by 8.2 feet format: Bystronic launches the ByCut Smart laser cutting system in the 6225 XXL format.
- 2 More sheet metal, more parts: The 6225 format increases productivity thanks to a high degree of material utilization.
- 3 The ByCut Smart 6225 can be equipped with the Fiber 3000, 4000, 6000, 8000, 10000 or 12000 laser sources, depending on the users' requirements.

**ByCut Smart
6225**

Nominal sheet size	244 × 100 inch
Max. simultaneous positioning speed	5,512 inch/min



ByCut Smart 6225 Technical Data





		ByCut Smart 6225
Length		768 inch
Width		321 inch
Height		126 inch
Nominal sheet size (X)		244 inch
Nominal sheet size (Y)		100 inch
Cutting area (X)		246 inch
Cutting area (Y)		100 inch
Cutting area (Z)		6 inch
Max. positioning speed parallel axis X/Y		3,937 inch/min
Max. simultaneous positioning speed		5,512 inch/min
Bilateral repeatability of positioning of one axis R (following ISO 230-2:2014(E))		0.002 inch
Averaged, bilateral position deviation of one axis M (following ISO 230-2:2014(E))		0.004 inch
Edge detection accuracy ($\pm$)		0.02 inch
Max. workpiece weight		8,040 lbs
Maximum allowed workpiece weight on both shuttle tables		16,080 lbs
Machine weight (without exhaust, chiller and conveyor)		46,297 lbs
Table changeover time		72 s
Operation	ByVision Touchscreen and manual control unit	



Laser source	Fiber 3000	Fiber 4000	Fiber 6000
Power	3,000 W	4,000 W	6,000 W
Range of adjustment	300–3,000 W	400–4,000 W	600–6,000 W
Wavelength	Fiber	Fiber	Fiber
Steel (max. cutting sheet thickness) *	0.75 inch	0.75 inch	1 inch
Steel (with option BeamShaper) *	0.75 inch	1 inch	1.18 inch
Stainless steel (max. cutting sheet thickness) *	0.5 inch	0.6 inch	1.18 inch
Aluminum (max. cutting sheet thickness) *	0.5 inch	0.75 inch	1.18 inch
Brass (max. sheet thickness) *	0.25 inch	0.31 inch	0.59 inch
Copper (max. sheet thickness) *	0.25 inch	0.31 inch	0.47 inch
Total electric consumption of system (with exhaust, chiller)	23 kW	24 kW	25 kW

Laser source	Fiber 8000	Fiber 10000	Fiber 12000
Power	8,000 W	10,000 W	12,000 W
Range of adjustment	800–8,000 W	1,000–10,000 W	1,200–12,000 W
Wavelength	Fiber	Fiber	Fiber
Steel (max. cutting sheet thickness) *	1 inch	1 inch	1 inch
Steel (with option BeamShaper) *	1.18 inch	1.18 inch	1.18 inch
Stainless steel (max. cutting sheet thickness) *	1.18 inch	1.18 inch	1.18 inch
Aluminum (max. cutting sheet thickness) *	1.18 inch	1.18 inch	1.18 inch
Brass (max. sheet thickness) *	0.59 inch	0.59 inch	0.59 inch
Copper (max. sheet thickness) *	0.47 inch	0.47 inch	0.47 inch
Total electric consumption of system (with exhaust, chiller)	28 kW	29 kW	29 kW

* 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)

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

The technical data can vary in the different countries, according to local security rules and configuration of the machine.