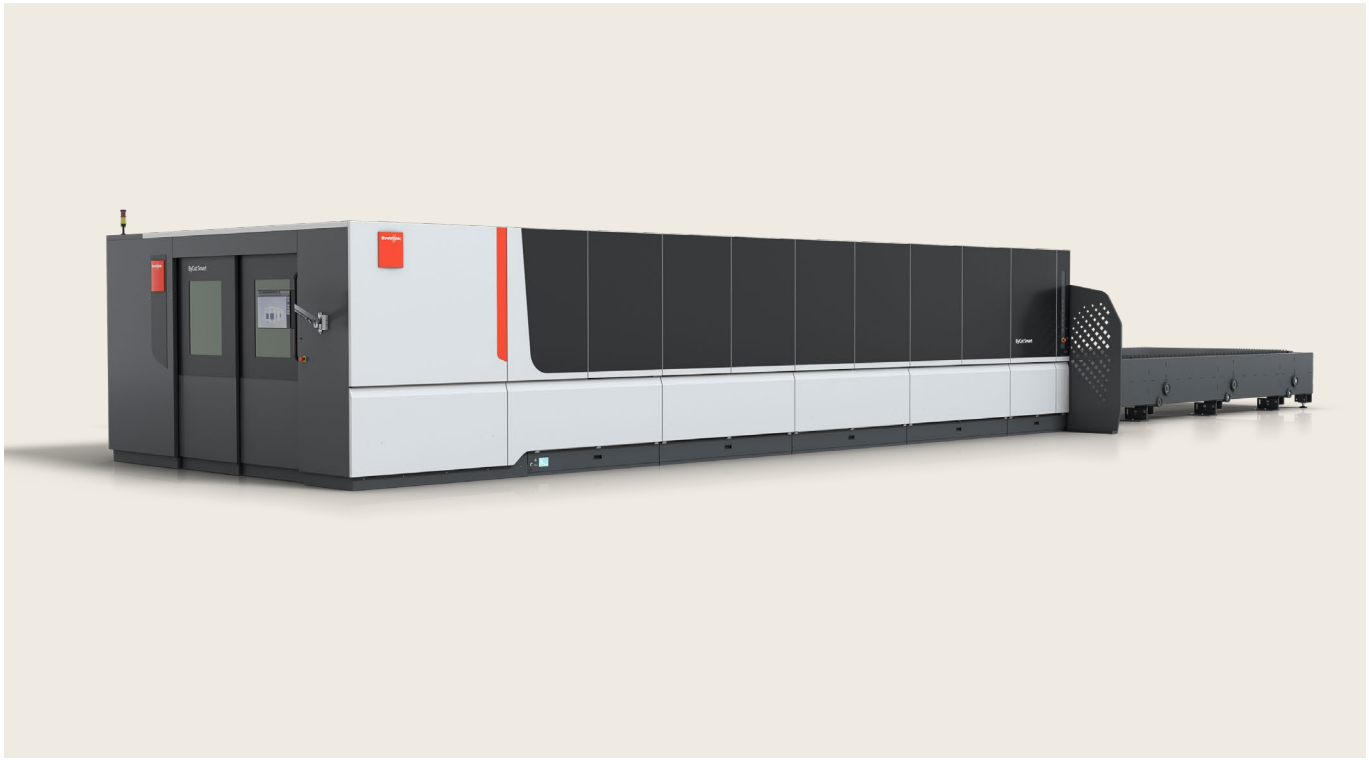


ByCut Smart 6225/12025

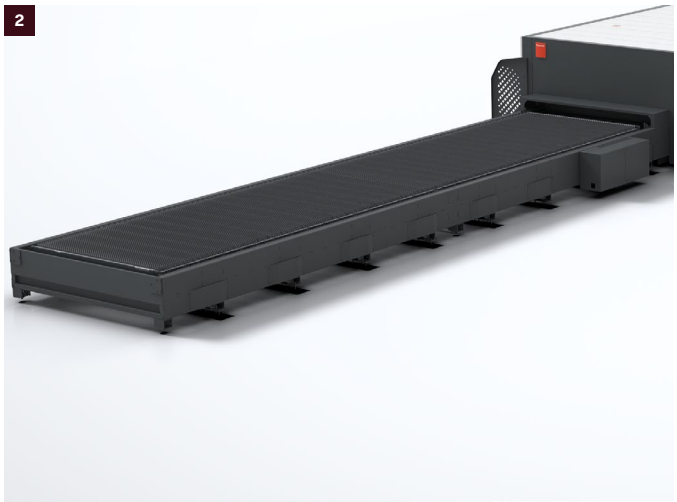
High productivity and performance in the XXL format at a favorable price

Customer benefits

- High degree of material utilization thanks to a cutting length of up to 12.2 meters and a width of 2.5 meters. Cut not only large parts, but also many small parts with high efficiency thanks to outstanding nesting processes.
- The latest version of the high-performance Bystronic cutting head excels with maximum precision and high speed thanks to laser outputs of up to powerful 20 kW.
- High-end productivity: More parts per cycle. Cut a wide range of materials without interrupting the cutting process hence reducing non-productive time.
- More productivity and performance in the XXL format at a favorable price.
- Using a 21.5-inch touch screen, Bystronic's ByVision Cutting software is operated just as simply as a smartphone. Ease of use and an intuitive user interface guarantee excellent results even when operators are inexperienced.

1

2



1 The ByCut Smart can be equipped with the Fiber 3000, 4000, 6000, 10000, 12000, 15000 or 20000 laser sources, depending on the users' requirements.
2 More sheet metal, more parts: The XXL formats increase productivity thanks to a high degree of material utilization.
3 Available in the large formats 6.2 × 2.5 and 12.2 × 2.5 meters: Bystronic launches the ByCut Smart laser cutting system in the XXL formats 6225 and 12025.

3

	ByCut Smart 6225	ByCut Smart 12025
Nominal sheet size	6,200 × 2,500 mm	12,200 × 2,500 mm
Max. simultaneous positioning speed	140 m/min	140 m/min

ByCut Smart 6225/12025
Technical Data

	ByCut Smart 6225	ByCut Smart 12025
Length	19,505 mm	30,980 mm
Width	8,142 mm	8,660 mm
Height	3,195 mm	3,405 mm
Nominal sheet size (X)	6,200 mm	12,200 mm
Nominal sheet size (Y)	2,500 mm	2,500 mm
Cutting area (X)	6,240 mm	12,300 mm
Cutting area (Y)	2,540 mm	2,600 mm
Cutting area (Z)	150 mm	150 mm
Max. positioning speed parallel axis X/Y	100 m/min	100 m/min
Max. simultaneous positioning speed	140 m/min	140 m/min
Bilateral repeatability of positioning of one axis R (following ISO 230-2:2014(E))	0.05 mm	0.05 mm
Averaged, bilateralposition deviation of one axis M (following ISO 230-2:2014(E))	0.1 mm	0.1 mm
Edge detection accurancy (±)	0.5 mm	0.5 mm
Max. workpiece weight	3,650 kg	7,100 kg
Maximum allowed workpiece weight on both shuttle tables	7,300 kg	14,200 kg
Machine weight (without exhaust, chiller and conveyor)	21,000 kg	34,500 kg
Table changeover time	72 s	154 s
Operation	BySoft Cell Control Cut	

Laser source	Fiber 3000	Fiber 4000	Fiber 6000	Fiber 10000	Fiber 12000	Fiber 15000	Fiber 20000
Power	3,000 W	4,000 W	6,000 W	10,000 W	12,000 W	15,000 W	20,000 W
Range of adjustment	300–3,000 W	400–4,000 W	600–6,000 W	1,000–10,000 W	1,200–12,000 W	1,500–15,000 W	2,000–20,000 W
Wavelength	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber
Steel (max. cutting sheet thickness) *	20 mm	20 mm	25 mm	25 mm	25 mm	25 mm	25 mm
Steel (with option BeamShaper) *	20 mm	25 mm	30 mm	30 mm	30 mm	30 mm	30 mm
Stainless steel (max. cutting sheet thickness) *	12 mm	15 mm	30 mm	30 mm	30 mm	40 mm	40 mm
Aluminum (max. cutting sheet thickness) *	12 mm	20 mm	30 mm	30 mm	30 mm	40 mm	40 mm
Brass (max. sheet thickness) *	6 mm	8 mm	15 mm	15 mm	15 mm	20 mm	20 mm
Copper (max. sheet thickness) *	6 mm	8 mm	12 mm	15 mm	15 mm	20 mm	20 mm
Total electric consumption of system (with exhaust, chiller) **	23 kW	24 kW	25 kW	29 kW	29 kW	29 kW	32 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)

** Entire system with exhaust and chiller: Electrical consumption data shows an average value based on 4 reference cutting plans of mild steel between 1–10 mm thickness

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.

Fiber Warranty Premium