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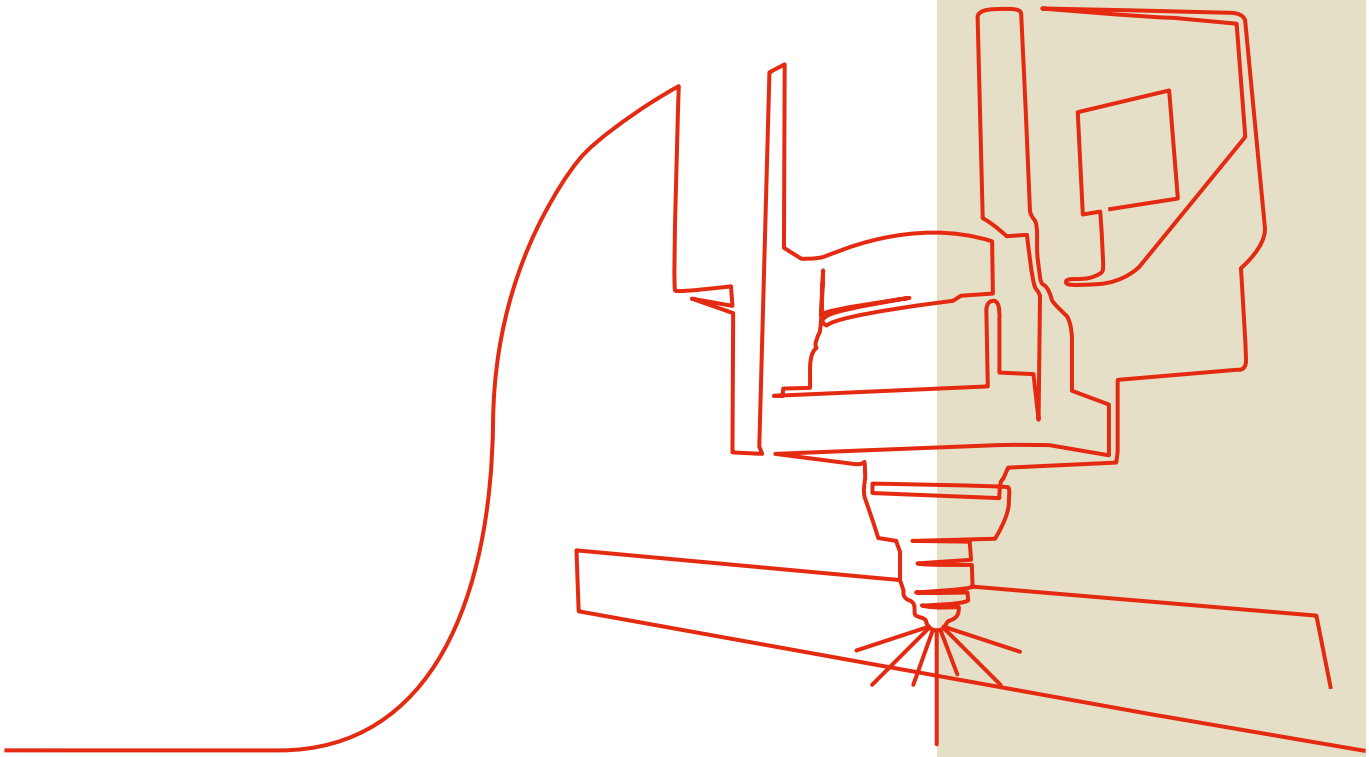

Laser Cutting

Your best choice.

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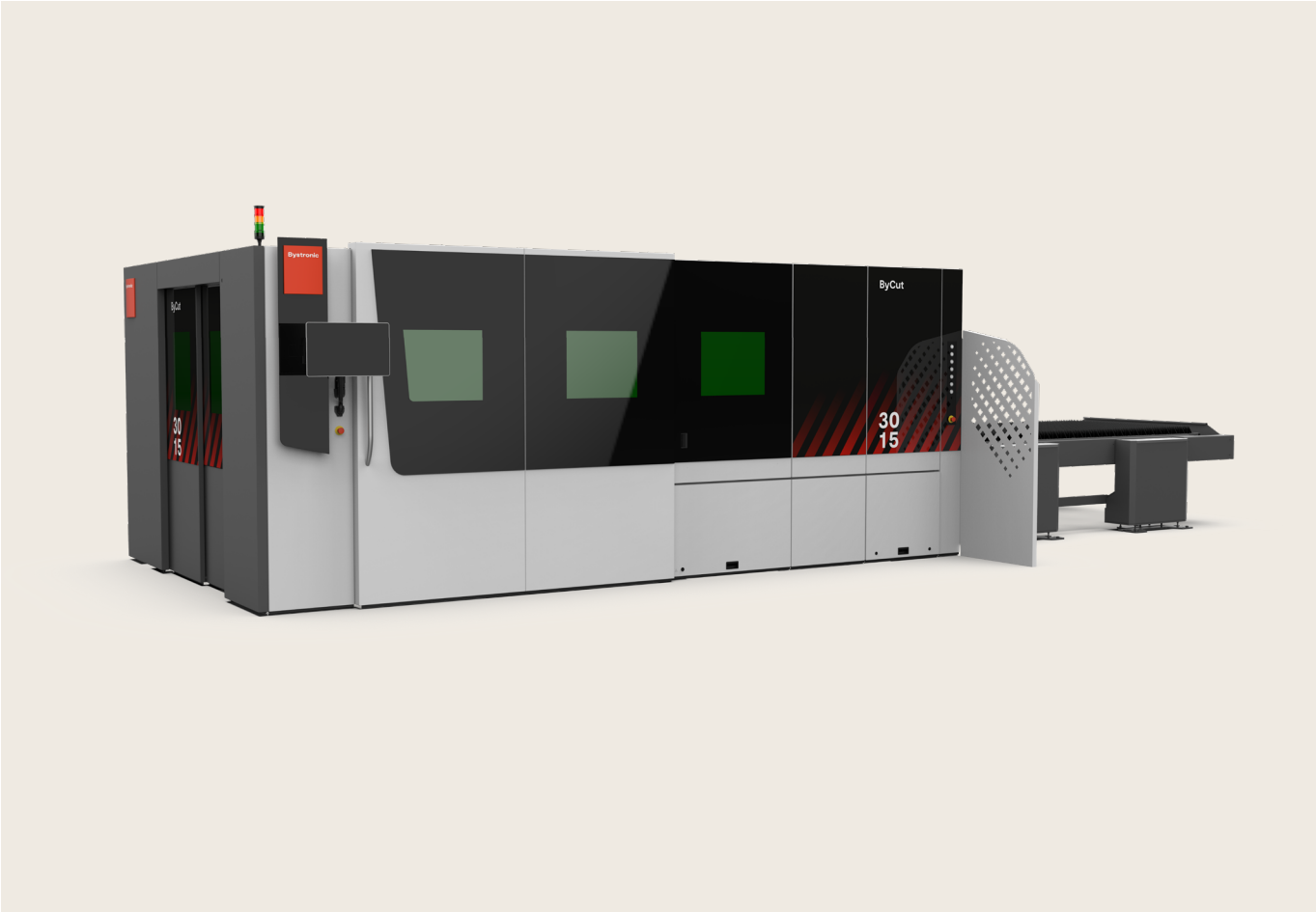
ByCut 3015/4020
Technical Data



	ByCut 3015	ByCut 4020
Length	425 in	551 in
Width	201 in	224 in
Height	91 in	102 in
Nominal sheet size (X)	120 in	160 in
Nominal sheet size (Y)	60 in	80 in
Cutting area (X)	123 in	162 in
Cutting area (Y)	63 in	83 in
Cutting area (Z)	5.9 in	5.9 in
Max. positioning speed parallel axis X/Y	4,724 in/min	4,724 in/min
Max. simultaneous positioning speed	6,681 in/min	6,681 in/min
Bilateral repeatability of positioning of one axis R (following ISO 230-2:2014(E))	0.001 in	0.001 in
Averaged, bilateralposition deviation of one axis M (following ISO 230-2:2014(E))	0.002 in	0.002 in
Edge detection accurancy (±)	0.02 in	0.02 in
Max. workpiece weight	3,417 lbs	4,189 lbs
Maximum allowed workpiece weight on both shuttle tables	6,834 lbs	7,055 lbs
Machine weight (without exhaust, chiller and conveyor)	23,810 lbs	28,219 lbs
Table changeover time	28 s	28 s
Operation	BySoft Cell Control Cut	

Laser source	Fiber 3000	Fiber 4000	Fiber 6000	Fiber 10000
Power	3,000 W	4,000 W	6,000 W	10,000 W
Range of adjustment	300–3,000 W	400–4,000 W	600–6,000 W	1,000–10,000 W
Wavelength	Fiber	Fiber	Fiber	Fiber
Steel (max. cutting sheet thickness) *	0.75 in	0.75 in	1 in	1 in
Steel (with option BeamShaper) *	0.75 in	1 in	1.18 in	1.18 in
Steel (option «Advanced Applications») *				
Stainless steel (max. cutting sheet thickness) *	0.47 in	0.6 in	1.18 in	1.18 in
Stainless steel (option «Advanced Applications») *				
Aluminum (max. cutting sheet thickness) *	0.47 in	0.6 in	1.18 in	1.18 in
Aluminum (option «Advanced Applications») *				
Brass (max. sheet thickness) *	0.25 in	0.31 in	0.59 in	0.59 in
Copper (max. sheet thickness) *	0.25 in	0.31 in	0.47 in	0.47 in
Total electric consumption of system (with exhaust, chiller)	17 kW	18 kW	20 kW	21 kW

Laser source	Fiber 12000	Fiber 15000	Fiber 20000	Fiber 30000
Power	12,000 W	15,000 W	20,000 W	30,000 W
Range of adjustment	1,200–12,000 W	400–15,000 W	400–20,000 W	400–30,000 W
Wavelength	Fiber	Fiber	Fiber	Fiber
Steel (max. cutting sheet thickness) *	1 in	1 in	1 in	1 in
Steel (with option BeamShaper) *	1.18 in	1.18 in	1.18 in	
Steel (option «Advanced Applications») *		1.96 in	1.96 in	1.96 in
Stainless steel (max. cutting sheet thickness) *	1.18 in	1.57 in	1.57 in	1.57 in
Stainless steel (option «Advanced Applications») *		1.96 in	1.96 in	1.96 in
Aluminum (max. cutting sheet thickness) *	1.18 in	1.57 in	1.57 in	1.57 in
Aluminum (option «Advanced Applications») *		1.96 in	1.96 in	1.96 in
Brass (max. sheet thickness) *	0.59 in	0.75 in	0.75 in	0.75 in
Copper (max. sheet thickness) *	0.47 in	0.75 in	0.75 in	0.75 in
Total electric consumption of system (with exhaust, chiller)	21 kW	22 kW	22 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.