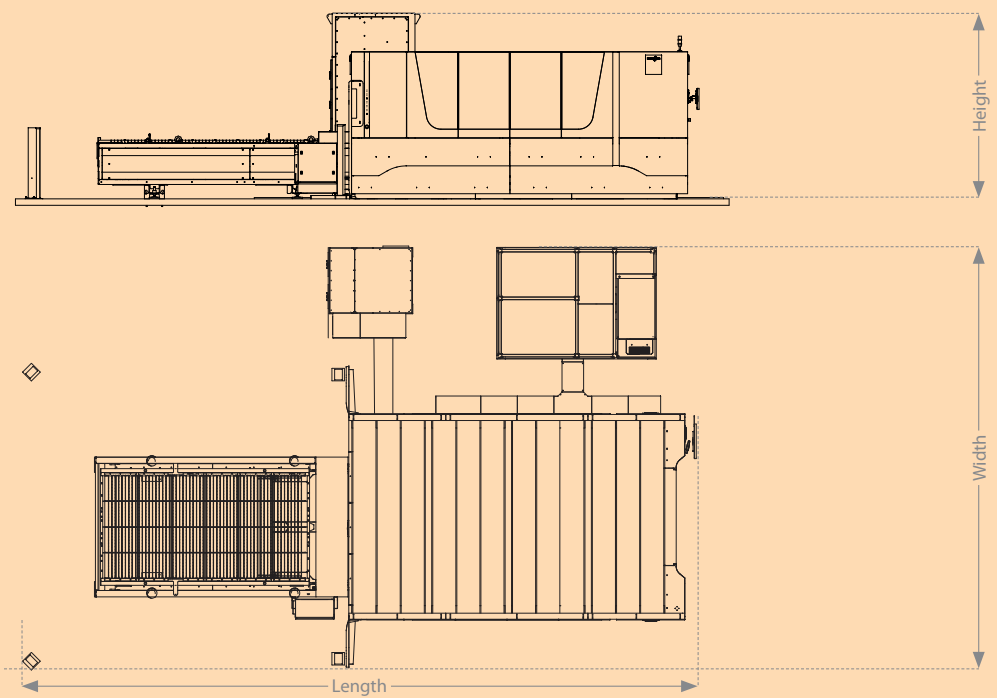


Technical Data

BySmart Fiber

	BySmart Fiber 3015	BySmart Fiber 4020	
Length	413	503	inch
Width	272	297	inch
Height	113	113	inch



Laser cutting system		BySmart Fiber 3015	BySmart Fiber 4020	
Nominal sheet size	x	120	160	inch
	y	60	80	
Cutting area	x	122	162	inch
	y	62	83	
	z	4	4	
Maximum positioning speed parallel axis x, y		3937	3937	inch/min
Maximum simultaneous positioning speed		5511	5511	inch/min
Bilateral repeatability of positioning of one axis R*		0.002	0.002	inch
Averaged, bilateral position deviation of one axis M*		0.004	0.004	inch
Edge detection accuracy		± 0.02	± 0.02	inch
Maximum workpiece weight		2425	4189	lbs
Machine weight**		26,015	32,628	lbs
Table change over time		27	36	s
Operation via panel		ByVision Cutting Touchscreen and manual control unit		

Laser source	Fiber 2000	Fiber 3000	Fiber 4000	Fiber 6000	Fiber 8000	Fiber 10000	
Power	2000	3000	4000	6000	8000	10000	W
Control range	200–2000	300–3000	400–4000	600–6000	800–8000	1000–10000	W
Wavelength	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	
Maximum sheet thicknesses***							
Steel	0.5	0.75	0.75	1.00	1.00/1.18 ^{a)}	1.00/1.18 ^{a)}	inch
Stainless steel	0.25	0.5	0.6	1.18	1.18	1.18	inch
Aluminum	0.31	0.5	0.75	1.18	1.18	1.18	inch
Brass	0.16	0.25	0.31	0.59	0.59	0.59	inch
Copper	0.16	0.25	0.31	0.47	0.47	0.47	inch
Total electrical consumption of system****							
BySmart Fiber 3015	17	18	19	20	24	25	kW
BySmart Fiber 4020	–	19	20	21	27	28	kW

* Following ISO 230-2:2014(E)

** 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: Electrical consumption data shows an average value based on 4 reference cutting plans of mild steel between 1-10mm thickness

a) with option BeamShaper

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



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