

Technical parameters of fiber laser tube cutting series products

NO.	Name	High-end CNC fiber laser tube cutting machine	small tube fiber laser tube cutting machine	Universal fiber laser tube cutting machine
1	Model	P2060A	P1260A	P2060B
2	Processing pipe section size range	Round ϕ 20mm- ϕ 220mm ; Square20mm*20mm-140mm*140mm	Round ϕ 20mm- ϕ 120mm ; Square 20mm*20mm-80mm*80mm	Round ϕ 10mm- ϕ 200mm ; Square10mm*10mm-140mm*140mm ; Channel steel16# ; I-beam16#
3	Laser power	1500W-6000W	1500W-4000W	1500W-3000W
4	Max acceleration	1.5g	1g	0.7g
5	Repeat positioning accuracy	0.02mm	0.03mm	0.03mm
6	positioning accuracy	0.02mm	0.05mm	0.03mm
7	XY Axis positioning speed	120m/min	X axis150m/min, Y aixs120m/min	80m/min
8	Max rotate speed	160r/min	150r/min	130r/min
9	Max weight for single tube	225kg(ϕ 200mm*8mm*6000mm)	85kg(ϕ 120mm*5mm*6000mm)	225kg(ϕ 200mm*8mm*6000mm)
10	Waste length	①When the front and rear chuck clamp the pipe at the same time, the tail material is 180mm; ②When the current card is opened and only the rear chuck is used to clamp the tube, the tail material is 80mm.	Within 80mm	①When the front and rear chuck clamp the pipe at the same time, the tail material is 180mm; (single row of jaws) ②When the current card is open and only the rear chuck is used to clamp the tube, the tail material is 80mm; ③Double-row jaws can be selected; the tail material is 50mm longer on the basis of single-row
11	Laser cutting head	RAYTOOLS/PRECITEC	Osprey/RAYTOOLS	WSX/RAYTOOLS
12	Cutting system	PA BUS	FSCUT BUS/PA BUS	Standard FSCUT3000S system; optional FSCUT5000B BUS
13	Nesting software	LANTEK	LANTEK/TubesT	Standard TubesT 3D nesting software
14	Loader	Standard auto loader	Standard small tube special loader	Optional simple loader
15	Max load for loader	2.5t	2t	1t
16	Support system	Auxiliary centering + floating support	Servo swing lever support	Variable diameter wheel support
17	Receiving system	Floating support	Servo floating plate support	Variable diameter wheel support
18	Power supply	AC 380V 50/60Hz	AC 380V 50/60Hz	AC 380V 50/60Hz
19	Chuck	Pneumatic chuck	Pneumatic chuck	Pneumatic chuck
20	Servo motor	Yaskawa Bus Motor	Delta/Yaskawa	Delta
21	Reducer	German INNOWELLE	Kofon	German INNOWELLE
22	Rack	Taiwan YYC/JT	KH/JT	Taiwan YYC/JT
23	Linear guide	Taiwan HIWIN	Taiwan HIWIN	Taiwan HIWIN/LST
24	Pneumatic configuration	Standard three gas sources and double compressed gas lines	Standard three gas sources and double compressed gas lines	Standard air lines; Optional three gas sources and double compressed gas lines

NO.	Name	Special fiber laser cutting machine for round tube	3D 5-axis pipe cutting machine	Heavy-duty fiber laser pipe cutting machine	Shaped tube fiber laser cutting machine
1	Model	P120	P2060A-3D	P35120	T2000
2	Processing pipe section size range	Round ϕ 10mm- ϕ 120mm	Round ϕ 20mm- ϕ 220mm ; Square 20mm*20mm-140mm*140mm	50mm-350mm	20mm-100mm
3	Laser power	1000W-3000W	1500W-4000W	3000W-8000W	1500W-4000W
4	Max acceleration	0.8g	1.0g	0.8g	0.8g
5	Repeat positioning accuracy	0.03mm	0.02mm	0.08mm	0.03mm
6	positioning accuracy	0.05mm	0.02mm	0.1mm	0.05mm
7	XY Axis positioning speed	60m/min	100m/min	60m/min	X axis 20m/min, Y axis90m/min
8	Max rotate speed	80r/min	130r/min	75r/min	120r/min
9	Max weight for single tube	25kg	225kg(ϕ 200mm*8mm*6000mm)	1000kg(ϕ 350mm*10mm*12000mm)	20kg
10	Waste length	80mm	①When both chucks clamp the pipe at the same time, the tail is 180mm; ②When the front chuck in open mode, only the rear chuck clamp the tube, the tail is 80mm.	0	/
11	Laser cutting head	RAYTOOLS	LTULTRA/RAYTOOLS/PRECITEC	RAYTOOLS	RAYTOOLS
12	Cutting system	WEIHONG	PA BUS	FSCUT BUS/PA BUS	FSCUT BUS/AheadTechs
13	Nesting software	/	LANTEK	LANTEK	/
14	Loader	Standard round tube auto loader	Standard auto loader	Seni-Auto	/
15	Max load for loader	0.6t	2.5t	4.5t	/
16	Support system	Manually set	Auxiliary centering + floating support	Variable diameter wheel support/floating roller support	/
17	Receiving system	Manually set	Floating support	Variable diameter wheel support/floating roller support	/
18	Power supply	AC 380V 50/60Hz	AC 380V 50/60Hz	AC 380V 50/60Hz	AC 380V 50/60HZ
19	Chuck	Pneumatic chuck	Pneumatic chuck	Heavy Duty Chuck	BK160
20	Servo motor	WEIHONG	Yaskawa Bus Motor	Yaskawa	Yaskawa/Panasonic
21	Reducer	Made in China	German INNOWELLE	German INNOWELLE	Delta/MOTOVARIO/APEX
22	Rack	Taiwan YYC/JT	Taiwan YYC/JT	Taiwan YYC/KH/JT	KH
23	Linear guide	Taiwan HIWIN	Taiwan HIWIN	Taiwan HIWIN/LST	Taiwan HIWIN
24	Pneumatic configuration	Standard three gas sources and double compressed gas lines	Standard three gas sources and double compressed gas lines	Standard three gas sources and double compressed gas lines	Standard three gas sources and double compressed gas lines