



T SERIES

HIGH SPEED TUBE FIBER LASER CUTTING MACHINE 1500W-4000W

T SERIES



PNEUMATIC CHUCK DESIGN



The front and rear chuck clamping design is convenient for installation, labor-saving, and no wear and tear. Ensure the stability of feeding and cutting accuracy; Automatic adjustment of the center, suitable for various pipes, high chuck rotation speed, Can improve processing efficiency.

STRONG MACHINE BED



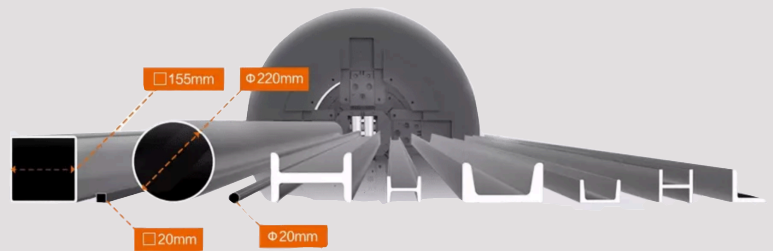
It is welded by thick steel plate, the current mainstream bed structure, high stability; High temperature annealing treatment, less heat absorption, deformation prevention.

INTELLIGENT CNC SYSTEM



Specially developed for tube processing. It supports high-precision and high-efficiency cutting of square tubes, round tubes, racetrack-shaped and elliptical tubes, as well as angle steel and channel steel.

- ✓ Intelligent Digital Chucks
- ✓ Strong Machine Bed
- ✓ Cut Multi Types of Tubes
- ✓ Automatic Support Installation
- ✓ Intelligent CNC System
- ✓ Cut Multi Types of Tubes



CUTTING ABILITY REFERENCE TABLE

Laser power	5mm	10mm	15mm	20mm	25mm	30mm	40mm	50mm	60mm	70mm	80mm	90mm	100mm
2000W	Carbon steel Stainless steel Aluminum Brass												
3000W	Carbon steel Stainless steel Aluminum Brass												
4000W	Carbon steel Stainless steel Aluminum Brass												
6000W	Carbon steel Stainless steel Aluminum Brass												
8000W	Carbon steel Stainless steel Aluminum Brass												
12000W	Carbon steel Stainless steel Aluminum Brass												
15000W	Carbon steel Stainless steel Aluminum Brass												
20000W	Carbon steel Stainless steel Aluminum Brass												
30000W	Carbon steel Stainless steel Aluminum Brass												

The cutting parameter is only for reference.

CUTTING SAMPLES



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HIGH SPEED TUBE FIBER LASER CUTTING MACHINE 1500W-4000W



TECHNICAL SPECIFICATIONS

MODEL	XT-T230	XT-T350
LENGTH OF TUBE	6.5m/9.2m	6.5m/9.2m
LASER POWER	1000W-3000W	1000W-3000W
MAXIMUM ROTATING SPEED OF CHUCKS	120r / min	120r / min
MAXIMUM FEEDING SPEED OF CHUCK AXIS	120r-min / min	120r-min / min
ACCELERATION	1.2G	1.2G
CLAMPING RANGE	20-220m	20-345m
POSITIONING ACCURACY	±0.03mm	±0.03mm
POSITIONING ACCURACY	±0.02mm	±0.02mm

Technical specifications are subject to change without prior notice.

LASER CUTTING PARAMETERS REFERENCE TABLE

Material	Thickness	2000W	3000W	4000W	6000W	8000W	12000W	15000W	20000W	30000W
		Cutting Speed (m/min)								
Carbon Steel (Oxygen)	1	24-30	30-40	33-43	35-44	40-50	60-75	60-80	65-85	70-90
	2	4.7-6.5	4.8-7.5	15-25	20-28.0	26-33	28-40	45-70	50-75	60-80
	3	3.0-4.8	3.3-5.0	7.0-12	13-17	15-19	18-30	38-50	45-65	50-75
	4	2.8-3.5	3.0-4.2	3.0-4.0	3.0-4.5	3.0-4.5	3.5-5.5	3.5-5.5	5-7.0	6.5-9.0
	5	2.2-3.0	2.6-3.5	2.7-3.6	3.0-4.2	3.0-4.2	3.3-4.8	3.3-4.8	5.3-6.5	6.5-10
	6	1.8-2.6	2.3-3.2	2.5-3.4	2.5-3.5	2.6-3.7	3.0-4.2	3.0-4.2	4.0-5.5	6.0-9.0
	8	1.2-1.8	1.8-2.6	2.0-3.0	2.2-3.2	2.3-3.5	2.5-3.5	2.5-3.5	3.5-5.0	5.5-8.5
	10	1.1-1.3	1.2-2.0	1.5-2.4	1.8-2.5	2-2.5	2.2-2.7	2.2-2.7	3.5-4.7	5.0-8.0
	12	0.9-1.2	1.0-1.6	1.2-1.8	1.2-2.0	1.2-2.1	1.2-2.1	1.2-2.1	2.0-4.0	4.0-7.3
	14	0.7-0.8	0.9-1.4	0.9-1.2	1.2-1.8	1.2-1.9	1.7-1.9	1.5-1.9	1.7-3.0	3.7-6.0
	18	0.4-0.6	0.6-0.8	0.6-0.9	0.8-0.9	0.8-1.5	1.0-1.8	1.6-2.2	1.5-2.3	3.3-5.0
	20	0.2-0.4	0.5-0.8	0.5-0.8	0.5-0.8	0.6-1.3	0.6-1.5	1.5-2.0	1.5-2.3	2.3-4.0
	25	--	0.2-0.5	0.3-0.5	0.3-0.55	0.3-0.7	0.5-1.1	0.8-1.5	1.0-1.5	2.0-3.5
	30	--	--	--	0.2-0.5	0.2-0.7	0.3-0.9	0.8-1.0	0.8-1.1	1.5-2.5
	40	--	--	--	--	0.2-0.6	0.4-0.8	0.6-1.0	1.2-2.0	--
	50	--	--	--	--	--	0.2-0.6	0.5-0.8	0.8-1.7	--
	60	--	--	--	--	--	0.2-0.5	0.4-0.7	0.5-1.5	--
	70	--	--	--	--	--	--	0.3-0.5	0.4-0.7	--
	80	--	--	--	--	--	--	--	--	0.2-0.5
90	--	--	--	--	--	--	--	--	0.2-0.4	
Stainless steel (Nitrogen)	1	24-36	30-35	32-45	42-52	50-65	60-72	70-85	72-100	80-105
	2	6-10	13-21	16-28	20-33	30-40	35-45	40-66	45-70	55-80
	3	2.2-3.5	6.0-10	7.0-15	15-22	18-27	20-30	35-45	38-50	45-70
	4	1.2-1.6	4.0-6.0	5.0-8.0	10-15	12-16	15-22	20-32	25-35	38-65
	5	0.6-0.75	3.0-5.0	3.5-5.0	8.0-12	10-15	10-18	18-25	20-30	30-63
	6	0.6-0.7	2.0-4.0	2.5-4.5	4.8-8.0	6.0-10.0	8-12	12-15	15.0-25.0	25-53
	8	0.5-0.6	1.5-2.0	1.2-2.0	3.0-4.0	3.5-5.0	5.0-7.5	8-12	8.0-12.0	20-45
	10	0.4-0.5	0.6-0.8	0.8-1.2	1.6-2.5	2.0-2.7	3.0-7.0	6.0-8.0	6.0-10.0	20-32
	12	--	0.4-0.6	0.5-0.8	0.8-1.5	1.2-2.0	2.5-3.9	4.0-5.5	4.0-6.0	15-25
	14	--	--	0.4-0.6	0.4-0.8	1.2-1.8	1.8-2.8	3.0-5.0	3.5-6.0	13-20
	18	--	--	--	0.4-0.6	0.8-1.2	1.2-1.8	1.2-2.0	1.2-2.2	8.0-12.0
	20	--	--	--	0.3-0.5	0.4-0.7	0.9-1.5	1.0-1.6	1.3-1.8	6.0-8.0
	25	--	--	--	0.2-0.4	0.3-0.5	0.6-1.7	0.8-0.8	0.6-1.2	4.0-5.5
	30	--	--	--	0.2-0.4	0.2-0.4	0.3-0.6	0.3-0.6	0.5-1.0	2.5-3.9
	40	--	--	--	--	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.6	1.8-2.8
	50	--	--	--	--	0.3-0.4	0.2-0.4	0.2-0.5	1.3-1.8	--
	60	--	--	--	--	0.2-0.3	0.2-0.3	0.2-0.4	0.5-0.8	--
	70	--	--	--	--	--	0.2-0.3	0.2-0.35	0.5-1.0	--
	80	--	--	--	--	--	--	0.2-0.3	0.2-0.4	--
90	--	--	--	--	--	--	--	0.2-0.3	--	

TECHNICAL SPECIFICATIONS

Material	Thickness	2000W	3000W	4000W	6000W	8000W	12000W	15000W	20000W	30000W	
		Cutting Speed (m/min)									
Carbon Steel (Oxygen)	1	15-25	20-38	30-45	42-55	48-65	60-85	70-100	55-65	60-70	
	2	7-10	10-18	13-24	20-40	25-48	38-50	40-55	33-45	40-55	
	3	4.0-6.0	6.0-8.0	7.0-13	15-25	20-33	30-40	35-45	25-35	40-55	
	4	2.0-3.0	3.5-5.0	4.0-6.5	9.5-12	13-18	20-30	30-40	15-25	38-50	
	5	1.2-1.8	2.5-3.5	3.0-4.5	5.0-8.0	9.0-12	15-25	20-30	13-20	38-45	
	6	0.7-1.0	1.5-2.5	2.0-3.5	3.8-5.0	4.5-8.0	10-15	15-24	9.0-12	25-35	
	8	0.6-0.8	0.7-1.0	0.9-1.6	2.0-2.5	4.0-5.5	7.0-12	8.0-12.0	4.5-6.5	20-30	
	10	--	0.4-0.7	0.6-1.2	1.0-1.5	2.2-3.0	4.5-8.0	6.0-10.0	2.8-4.0	15-24	
	12	--	--	0.4-0.6	0.8-1.0	1.5-1.8	4.0-5.0	4.0-6.0	1.9-2.5	13-20	
	16	--	--	--	0.5-0.8	1.0-1.6	1.5-2.5	2.0-3.0	1.5-2.0	10-15	
	20	--	--	--	--	0.7-1.0	0.9-1.5	1.3-1.8	0.8-1.2	9.0-12	
	30	--	--	--	--	--	0.3-0.8	0.5-1.0	0.3-0.7	6.0-10.0	
	40	--	--	--	--	--	0.2-0.4	0.2-0.5	0.3-0.5	4.0-6.0	
	50	--	--	--	--	--	0.1-0.2	0.3-0.7	0.2-0.4	2.0-3.0	
	60	--	--	--	--	--	--	0.2-0.5	0.2-0.3	1.3-1.8	
	70	--	--	--	--	--	--	--	0.1-0.2	0.3-0.8	
	80	--	--	--	--	--	--	--	--	0.2-0.3	
	Aluminum (Nitrogen)	1	10-16	20-35	25-35	35-45	40-65	50-80	55-65	75-85	78-88
		2	5.0-6.0	6.0-10	8.0-12	20-30	28-40	33-40	38-50	40-55	55-65
3		2.5-4.0	4.0-6.0	5.0-8.0	12-18	20-30	15-23	20-30	32-50	40-55	
4		2.0-3.0	3.0-5.0	3.2-5.5	5.0-8.0	10-15	10-16	15-20	27-35	38-50	
5		0.9-1.2	1.5-2.0	2.0-3.0	4.5-6.0	6.0-9.0	9.0-13	10-15	18-26	33-40	
6		0.4-0.7	1.0-1.8	1.4-2.0	3.0-4.5	4.5-6.5	7.0-9.0	6.0-8.0	10-18	20-30	
8		0.3-0.5	0.5-0.7	0.7-1.2	1.6-2.2	2.4-4.0	4.5-6.5	5.0-7.0	8.0-10.0	18-26	
10		--	0.3-0.5	0.5-1.0	0.8-1.2	1.5-2.2	2.4-4.0	4.5-6.5	5.0-7.0	10-15	
12		--	--	0.3-0.8	0.3-0.5	0.8-1.2	1.5-2.2	2.4-4.0	2.8-4.2	5.0-7.0	
14		--	--	--	0.3-0.4	0.4-0.6	0.6-1.2	0.8-1.5	1.0-1.8	2.4-4.0	
16		--	--	--	0.2-0.3	0.3-0.5	0.4-0.6	0.6-1.2	0.8-1.5	1.0-1.8	
18		--	--	--	--	0.3-0.4	0.3-0.5	0.4-0.6	0.4-0.6	0.8-1.5	
20		--	--	--	--	0.2-0.3	0.3-0.4	0.3-0.5	0.3-0.5	0.4-0.6	
30		--	--	--	--	--	0.2-0.3	0.3-0.4	0.3-0.5	0.4-0.6	
40		--	--	--	--	--	--	0.2-0.4	0.3-0.4	0.4-0.6	
50		--	--	--	--	--	--	--	0.1-0.3	0.3-0.4	
60		--	--	--	--	--	--	--	0.2-0.3	0.2-0.3	
70		--	--	--	--	--	--	--	0.1-0.3	0.1-0.3	
80		--	--	--	--	--	--	--	--	0.1-0.3	
90	--	--	--	--	--	--	--	--	0.1-0.2		

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