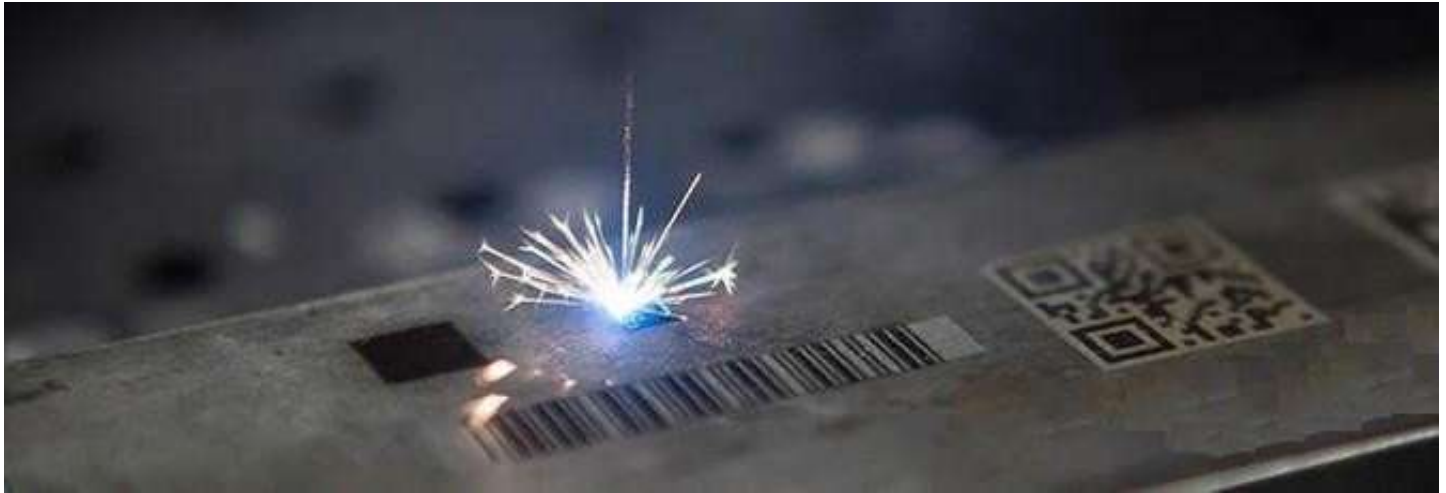


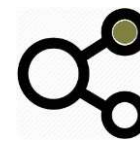
FoCUS

Explore Your Identity



FE & TECH

SF. No 41/4, Lenin Street, Co-operative colony, Vilankurichi, Coimbatore, Tamilnadu, INDIA - 641035
Ph : +91 7397 061 777 email: fetechpoint@gmail.com



1. Technical Parameters:

FEATURS	TECHNICAL DATA
Laser power	1500W
Laser wavelength	1060-1080 nm
Working area	3000(L)*1500(W) mm
Z-axis path	120 mm
Machine tolerance	± 0.05 mm/m
Repetition tolerances	± 0.05mm
X,Y-axis location accuracy	≤±0.05mm
X,Y-axis repeat location accuracy	≤±0.05mm
X,Y-axis idle moving speed	120 m/min
Acceleration rate	1 G
Max cutting speed	≤45m/min
Machine dimension	4470mm*2123mm*1800mm
Machine total weight	3.0T



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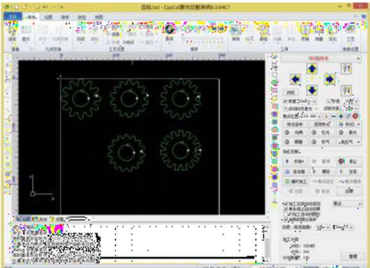

2. Machine Confutation






NO.	Model	Name	Quantity	Remarks
1	FE-1530E	Fiber laser cutting machine	1 set	FE & TECH
2	1500W	Laser generator	1 set	RAYCUS
3	Water chiller	Special water chiller for fiber laser generator	1 set	S&A
4	Laser head	High accuracy professional fiber laser head	1 set	Raytools BM110 auto focus
5	Control system	CYPCUT	1 set	CYPCUT2000C
6	Driving system	High speed servo motor	4 sets	Japan Fuji servo motor 400w+850w+1.3kw
7	Reducer	imported	3 sets	Japan Shimpo
8	Electric components	imported	1 set	Schneider
9	Guide rail	imported	1 set	HIWIN
10	Rack	imported	1 set	YYC
11	Proportional valve	imported	1 set	Japan SMC
12	Cast aluminum beam	standard	1 set	FE & TECH
13	display screen	standard	1 set	FE & TECH
14	Protective lens, nozzles	standard	5 set	FE & TECH

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3.Configuration Brand and Model

Item	Parts	Brand	Remarks
	Laser source	Raycus 1500W	Best laser source in China.
	Cutting head	Raytools BM110	Autofocus laser head; Almost zero fault; Anti-collision design; height adjustment high sensitivity
	Fabricated bed	Aggravated	Aggravated and reinforced integrated bed with hot processing, to support the gantry moving high speed, and accuracy support 0.02mm. Even after 10 year use, there no any deformation.
	Gantry	Light and stable	We use light and precise gantry made by high quality aluminum, this structure provides high speed and precise movement, maximum speed reaches up to 120m/min. Save 30% time while moving.
	Servo motor & Drives	FUJI(Japan)	FUJI is servo motor and drives from Japan, 4 sets motor power depends on axis traveling, Y & X axis is longest, and Z axis is shortest. Acceleration reaches up to 1.0G.

	Rail Guide	HIWIN (Taiwan)	Accuracy class 6, top level. Classic is 6>5>4>3>2>1.
	Rack and Pinion	YYC (Taiwan)	Long working life, after long time use, the mold can still keep shape, no abrasion in good use condition, add oil always.
	Reducer	Shimpo (Japan)	Large torque, high effect, save kinetic energy, reduce the rotating speed of gear and racks, to longer the life of transmission assembly.
	Machine Software	CYPCUT	Support three-grade perforate automatic focus adjustment fly-cutting. Leapfrog the colling points cutting compensation cutting slightly joined pre-punching cutting. Cutting with film automatic edge finding automatic layout round tube cutting. Non-volatile memory cutting with exchange platform
	Water chiller	S&A	Dual temperature and dual controller to cooling laser source and cutting head, this is high-tech standalone design to provide best cooling effect and avoid failure, support 24 hours continuous working.

 <p>Cutting Control System CLOUDRAY FSCUT2000C</p>	Control system	FSCUT2000	FSCUT2000S medium power laser cutting system is a full-solution open-loop control system specially designed for sheet metal fabrication industry, with features of easy to install and adjust, excellent performance and fully integrated solutions, it is the upgrade version from FSCUT2000C.
	Proportional valve	SMC(Japan)	This is the valve control the pressure of gas automatically. While penetration, the pressure is small. While cutting, the pressure increasing. Very smart system to save your working time.
	Lubricating oil valve	LOWENT	Store the oil and keep Lubricating for all transmission parts, like gear and racks, lead rail, motors.
	Warranty	24 Months	24 Months for whole machine. In 12 Months guarantee from the machine ship out, we provide free replacement parts (not quick-wear parts),
	Shipment	FOB/ CIF/ DDU/ DDP by sea	Fiber laser cutting machine must ship by sea, for most area the delivery time is around 30 ~ 40 Working days.

FE & TECH

Coimbatore | Chennai | Bangalore | Kerala

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4. CUTTING CAPACITY:

Professional for cutting thin Sheet metal, high-quality carbon steel plate cutting 0.5~12mm, 0.5 to 5mm stainless steel plate, and also cutting aluminum alloy plate, galvanized sheet, electrolytic plate, silicon steel, titanium, aluminum zinc plate, thin brass plate and other various metamaterials

MATERIAL	MAX CUTTING THICKNESS	GOOD CUTTING THICKNESS
CARBON STEEL	16MM	12MM
STAINLESS STEEL	6MM	5MM

5. CUTTING PARAMETER FOR REFERENCE

MATERIAL	THICKNESS	ASSISTANCE GAS	MAX CUTTING SPEED (M/MIN)
CS	1	O 2	25
	3		4
	6		1.6
	8		1.2
	10		1
	12		0.8
	15		0.6
	16		0.4
SS	1	N 2	25
	2		7
	3		4
	4		2
	5		1.3

6. RUNNING COST OF MACHINE (REFERENCE ONLY)

A. COST OF ELECTRICITY

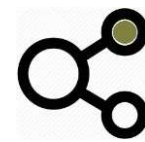
PARTS	WASTING ELECTRICITY (KW/H)	TOTAL	APPROX COST
LASER SOURCE	≅18	≅ 30	Rs.300 (KW/H, and basic on 70% running Using factor)
CNC SYSTEM	≅6		
WATER CHILLER	≅5		
AIR COMPRESOR			
AIR DRY TOOL			
DUST PROTECTIVE DEVICE	≅1		

B. COST OF ASSISTANCE GAS

GAS	PRICE	RUNING TIME	COST PER H	CUTTING RESULT	NOTE
O2		180 min		Black edge	1mm CS as sample
N2		15 min		White edge	1mm SS as sample
AIR				Yellow edge	Less than 2mm steel cutting

C. CONSUMABLE PARTS

Name	Replacement Time
Protective Mirror	2 pcs/month
Nozzle	depends on your usage



7.Cutting Parameters

		500W	1000W	1500	2000W	3000W	4000W	6000W	8000W	10000W	12000W
Material	Thickness	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min	speed m/min
Carbon steel (Q235A)	1	7.0--9.0	8.0--10	15--26	24--30	30--40	33--42	35--42	35--42	35--42	35--42
	2	3.0--4.5	4.0--6.5	4.5--7.0	4.7--6.0	4.8--7.5	5.2--8.0	6.0--8.0	6.2--10	7.0--12	10--13
	3	1.8--3.0	2.4--3.0	2.6--4.0	3.0--4.8	3.3--5.0	3.5--5.5	3.8--6.5	4.0--7.0	4.2--7.5	4.5--8.0
	4	1.3--1.5	2.0--2.4	2.5--3.0	2.8--3.5	3.0--4.2	3.1--4.8	3.5--5.0	3.5--5.5	3.5--5.5	3.5--5.5
	5	0.9--1.1	1.5--2.0	2.0--2.5	2.2--3.0	2.6--3.5	2.7--3.6	3.3--4.2	3.3--4.5	3.3--4.5	3.3--4.8
	6	0.6--0.9	1.4--1.6	1.6--2.2	1.8--2.6	2.3--3.2	2.5--3.4	2.8--4.0	3.0--4.2	3.0--4.2	3.0--4.2
	8		0.8--1.2	1.0--1.4	1.2--1.8	1.8--2.6	2.0--3.0	2.2--3.2	2.5--3.5	2.5--3.5	2.5--3.5
	10		0.6--1.0	0.8--1.1	1.1--1.3	1.2--2.0	1.5--2.0	1.8--2.5	2.2--2.7	2.2--2.7	2.2--2.7
	12		0.5--0.8	0.7--1.0	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
	14			0.5--0.7	0.7--0.8	0.9--1.4	0.9--1.2	1.5--1.8	1.7--1.9	1.7--1.9	1.7--1.9
	16				0.6--0.7	0.7--1.0	0.8--1.0	0.8--1.5	0.9--1.7	0.9--1.7	0.9--1.7
	18				0.4--0.6	0.6--0.8	0.65--0.9	0.65--0.9	0.65--0.9	0.65--0.9	0.65--0.9
	20					0.5--0.8	0.6--0.9	0.6--0.9	0.6--0.9	0.6--0.9	0.6--0.9
	22					0.4--0.6	0.5--0.8	0.5--0.8	0.5--0.8	0.5--0.8	0.5--0.8
25						0.3--0.5	0.3--0.5	0.3--0.7	0.3--0.7	0.3--0.7	
Stainless steel (201)	1	8.0--13	18--25	20--27	24--30	30--35	32--40	45--55	50--66	60--75	70--85
	2	2.4--5.0	7.0--12	8.0--13	9.0--14	13--21	16--28	20--35	30--42	40--55	50--66
	3	0.6--0.8	1.8--2.5	3.0--5.0	4.0--6.5	6.0--10	7.0--15	15--24	20--30	27--38	33--45
	4		1.2--1.3	1.5--2.4	3.0--4.5	4.0--6.0	5.0--8.0	10--16	14--21	18--25	22--32
	5		0.6--0.7	0.7--1.3	1.8--2.5	3.0--5.0	4.0--5.5	8.0--12	12--17	15--22	18--25
	6			0.7--1.0	1.2--2.0	2.0--4.0	2.5--4.5	6.0--9.0	8.0--14.0	12--15	15--21
	8				0.7--1.0	1.5--2.0	1.6--3.0	4.0--5.0	6.0--8.0	8.0--12.0	10--16
	10					0.6--0.8	0.8--1.2	1.8--2.5	3.0--5.0	6.0--8.0	8.0--12
	12					0.4--0.6	0.5--0.8	1.2--1.8	1.8--3.0	3.0--5.0	6.0--8.0
	14						0.4--0.6	0.6--0.8	1.2--1.8	1.8--3.0	3.0--5.0
	20							0.4--0.6	0.6--0.7	1.2--1.8	1.8--3.0
	25								0.5--0.6	0.6--0.7	1.2--1.8
	30								0.4--0.5	0.5--0.6	0.6--0.7
	40									0.4--0.5	0.5--0.6
Aluminum	1	4.0--5.5	6.0--10	10--20	15--25	25--38	35--40	45--55	50--65	60--75	70--85
	2	0.7--1.5	2.8--3.6	5.0--7.0	7--10	10--18	13--25	20--30	25--38	33--45	38--50
	3		0.7--1.5	2.0--4.0	4.0--6.0	6.5--8.0	7.0--13	13--18	20--30	25--35	30--40
	4			1.0--1.5	2.0--3.0	3.5--5.0	4.0--5.5	10--12	13--18	21--30	25--38
	5			0.7--1.0	1.2--1.8	2.5--3.5	3.0--4.5	5.0--8.0	9.0--12	13--20	15--25
	6				0.7--1.0	1.5--2.5	2.0--3.5	4.0--6.0	4.5--8.0	9.0--12	13--18
	8				0.6--0.8	0.7--1.0	0.9--1.6	2.0--3.0	4.0--6.0	4.5--8.0	9.0--12
	10					0.4--0.7	0.6--1.5	1.0--2.0	2.2--3.0	4.0--6.0	4.5--8.0
	12					0.3-0.45	0.4--0.6	0.8--1.4	1.5--2.0	2.2--3.0	4.0--6.0
	16						0.3--0.4	0.6--0.8	1.0--1.6	1.5--2.0	2.2--3.0
	20							0.5--0.7	0.7--1.0	1.0--1.6	1.5--2.0
	25								0.5--0.7	0.7--1.0	1.0--1.6
	35									0.5--0.7	0.7--1.0
	Brass	1	4.0--5.5	6.0--10	8.0--13	10--16	20--35	25--30	45--55	55--65	65--75
2		0.5--1.0	2.8--3.6	3.0--4.5	4.5--7.5	6.0--10	8.0--12	25--30	30--40	33--45	38--50
3			0.5--1.0	1.5--2.5	2.5--4.0	4.0--6.0	5.0--6.5	12--18	20--30	25--40	30--50
4				1.0--1.6	1.5--2.0	3.0-5.0	3.2--5.5	8.0--10	10--18	15--24	25--33
5				0.5--0.7	0.9--1.2	1.5--2.0	2.0--3.0	4.5--6.0	7.0--9.0	9.0--15	15--24
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	9.0--15
8						0.5--0.7	0.7--1.0	1.6--2.2	2.4--4.0	4.5--6.5	7.0--9.0
10							0.2--0.4	0.8--1.2	1.5--2.2	2.4--4.0	4.5--6.5
12								0.2--0.4	0.8--1.5	1.5--2.2	2.4--4.0
14									0.4--0.6	0.6--0.8	0.8--1.5