PRECISE LASER CUTTING MACHINE

15 SERIES









Swiss design



WIFI Control



Honors

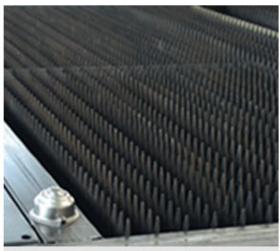


Multi-language service

3 Years Warranty
the first manufacturer who
support 3 years warranty in China



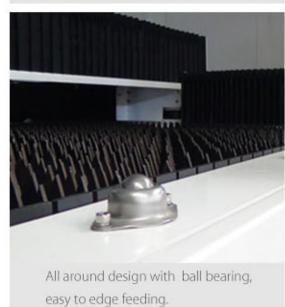
MACHINE DETAILS



Sawtooth blade table, suitable for sheet metal cutting.



Back open to put the long material through





Foldable cart for waste collecting



Attached to control system to adjust the parameter



Wireless controller

PARTS AND FUNCTION



WIFI wireless control

To provide speedy service, we add WIFI function for our technician operates troubleshooting and adjusts parameters remotely.



Switzerland RAYTOOLS Laser Head

Optimization of the optical configuration Smooth and efficient air flow design Rotary Knob focus adjustment. More easy and flexible.



Auto lubrication system

Electrical lubrication is a kind of Gear pump with rational construction, great performance, complete functions.



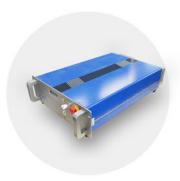
Schneider Servo Motor

It has many functions, including auto-adjusting, position / speed / orque control and internal positioning sequences etc.



Japan NSK Bearings

These bearing housings have square flange which can beeasily attached to a machine with four bolts.
With its simple mounting face, this bearing unit is widely used.



Laser Source

Wavelength range:1070~1090nm
Beam quality TEM00 (M2<1.8)
Forced air/Water cooling
More than 100000 hours work-life
of pumped diode



Japan SMC pneumatic components

Stepless control of air pressure proportional to an electrical signal.
Serial communications specifications.
Compact/lightweight
(Integrated communication parts).



France Schneider Electronic Component

Circuit protection against short-circuit currents, overload currents,

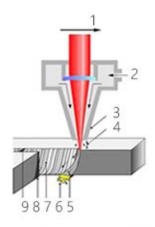


HIWIN

It features equal load ratings in the radial, reverse radial and lateraldirections, and self-aligning to absorb installation-error.

WORKING PRINCIPLE

- 1. Moving direction
- 2. Auxiliary Gas
- 3. Nozzle
- 4. Nozzle Distance
- 5. Molten Material

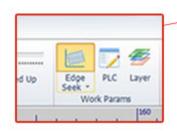


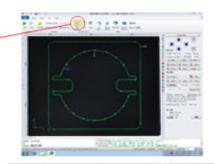
- 6. Residues
- 7. Cutting section
- 8. Heat Affected Zone
- 9. Joint-Cutting

Automatic edge seeking function

Auto-induct materials cutting edge and adjust cutting range according to their inclination angle automatically case any incorrect position.









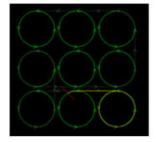


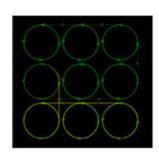
With automatic edge seeking function

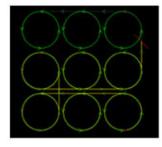
Without automatic edge seeking function

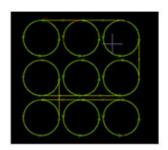
Flying cutting function

To reduce the change of cutting path, and improve the cutting efficiency, saving working time









Wide control system compatibility

Support DXF, PLT, AI, GBX, NC, etc



HELP YOU TO SOLVE THE FOLLOWING PROBLEMS EASILY

SAVE MAN	Save manpower cost						
	Solve the problem						
POWER	High cost and difficult management of labor force						
HIGH EFFICIENCY	High speed, convenient operation						
	Solve the problem						
	Artificial or common mechanical processing with low speed ,low efficiency						
GOOD	High precision smooth section is convenient for welding processing or assembling						
QUALITY	Solve the problem						
	Poor precision, coarse section, large slit						
	Computer operation standardization production						
	Computer operation standardization production						
STANDARDIZATION	Solve the problem						
	Batch job error						
	Almost zero maintenance cost						
LOW COST							
LOW 6031	Solve the problem						
	The equipment maintenance cost is high, the continuous investment.						
	High-eficiency laser source ,dust and smoke treament device						
ENVIRONMENTAL PROTECTION	Solve the problem						
TROTEGITON	High energy consumption, serious pollution						

1

Smart size Create productive Work-space

The most space-efficient overall dimension but makes great work efficiency

3

Higher performance, Lower Using Cost

1/3 of CO2 laser , 2/5 of CNC Punching laser , 2/5 of plasma laser..

5

Better Cutting Quality

Cutting smaller holes, higher-thickness metals are finished with cleaner edge, no need secondary processing 2

High Precise Craft Creation

Adopt utmost precision cutting process and high stability maintains to make accurate craft

4

Faster Cutting Speed, Higher Working Efficiency:

Cutting speed is 5 times faster than Plasma cutter, YAG cutter etc., and greatly improves working efficiency and creates double-profit.

6

Unique Modern Design

ALL designed are made by swiss excellent professional team, which is a superior quality service of guarantees best.

EUROPORPEAN QC SYSTEM



Flatness Large CNC milling machine processing



Solidness

Each equipment is processed with 650°Cheat aging treatment machine body is stable without any deformation



Precision

3 axes coordinate meter tests coordinate setting precision



Straightness

Laser collimator detects guide line





Fineness

Every tiny parts is detected with many times



Flintiness

Lathe Bed hardness measurement



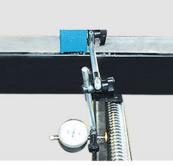
Parallelism

Rack gear parallelism test



Skillfulness

Quantity production with skilled technique and advanced manufacturing process











Parallelism

Ball screw installation test



Perpendicularity

Marble feet for lathe bed verticality test



Durability

72 hours aging test without laser





Stability

12 hours cutting test with laser

SWITZERLAND CENTER

BODOR Switzerland R&D center is located in yverdon-les-bains Switzerland, which is the center with many years of experience for the products research and development.



















PRECISE LASER CUTTING MACHINE 15

Model	i5	Option		
Working Area	1300*900mm	According to demands		
Max. moving speed	40m/min			
Max. cutting speed	35m/min			
Positioning accuracy	0.03mm			
Repeated positioning accuracy	0.02mm			
Laser output power	500W/1000W/1500W/2000W/2500W/3000W			
Related weight	Whole machine: approx 1500 kg actual weight based on final			
	configuration(depends on model)			

Application

Advertising board, sheet metal structure, Hv/lv electrical ark production, textile machinery parts, kitchen utensils, car, machinery, elevator, electric parts, spring coil slice, subway line spare parts, etc. staineless steel, carbon steel, alloy steel, spring steel, copper, aluminum, gold, silver, titanium metal plate and steel tubes









CUTTING THICKNESS AND SPEED

Material	Thickness	500W	1000W	2000W	3000W	4000W	6000W	8000W
		speed m/min	speed m/m					
Carbon steel	1	8-13	15-24	20-28	25-35	30-40	35-45	35-45
	2	3.5-4.5	5-6.5	5.5-7	7-9	8-10	9-12	10-13
	3	2.0-3.0	3-3,5	3.5-4.8	4-5	4,3-5.3	4,3-5,5	4.5-5.5
	4	1,3-1,5	2-2.4	2.8 -3.5	3,5-4,5	4,0-5,0	4.2-5.5	4.5-5.5
	5	0.9-1.1	1.8-2	2.5-3	3-3.5	3.0-4.2	3.5-4.2	3.5-4.2
	6	0.6-0.9	1.4-1.6	1.8-2.6	2.5-3.2	3.0-3.5	3.0-4	3.0-4
	8	-	0.7-1	1.2-1.8	1.8-2.4	2.0-3.0	2.2-3.2	2.5-3.2
	10	-	0.6-0.9	1.1-1.3	1,4-1,7	1.5-2.5	1.8-2.5	2-2.5
	12	17.	-	0.9-1.2	1.2-1.5	1.4-2	1.6-2	1.8 -2
	14	•	-	0.7-0.8	0.9-1.2	1,0-1,6	1,5-1,8	1,5-1,8
	16	4	-	0,6-0,7	0.8-1	0.8-1.2	0.8-1.5	0.8-1.5
	20	-		4	0,6-0,8	0.7-1	0.8 -1	0,8-1
	22	-	1-1	(-)	-	0.7-0.8	0.7-0.8	0.7-0.8
	25	-	101		-	0,3-0.5	0,4-0.6	0,4-0.6
	1	8-13	16-24	20-28	25-35	30-45	50-65	60-85
	2	2-2.2	5-6	7-10	10-16	12-20	30-40	35-55
	3	0.6-0.8	1.8-2	4-6.5	6-8	8-12	18-22	25-36
	4		1.2-1.3	3-4.5	5-6	6-8	10-14	18-24
	5	-	0.6-0.7	1.8 - 2.5	2.5-3.5	4-6	8-12	12-17
Stainless steel	6	-	121	1.2-1.8	1.5-2.5	2.5-4	6-8	8 -12
	8	(4)	(45)	0.7-1	1-1.2	1.5-2.5	4-5	6-8
	10	-	141	-	0.8 -1	0.8-1.5	1.8-2.5	2.4-5
	12	-	-:	-	-	0.6-1.0	1.2-1.8	1.8-3
	16				-	-	0,6-0,8	1,2-1,8
	20	-				-	-	0.4-0.7
	1	4-5.5	6-10	20-25	30-43	40-55	55-65	80-90
	2	0.7-1,5	2.8-3.6	7-10	10-18	15-25	25-35	35-50
	3	-	0.7-1.5	4-6	7-10	10-15	13-18	21-30
	4		(a)	2-3	4-5	8-10	10-12	13-18
Aluminum	5		(4)	1.2-1.8	3-4	5-7	5-8	9-12
	6	-	*	0.7-1	1.5-2.5	3.5-4	4-6	4.5-8
	8	-	-	(+)	0.7-1	1.5-2	2-3	4-6
	10			17	-	0.8-1	1-2.1	2.2-3
	12	-			-	0,6-0,8	0.8-1.4	1.5-2
	16	57.0	9.	-	-		0,6-0.9	1-1.6
	20		-	-		3		0.6-0.9
	1	4-5.5	6-10	14-16	30-35	35-45	50-60	70-85
	2	0,5-1,0	2.8-3.6	4.5-6.5	8-12	10-15	25-30	30-40
	3	-	0.5-1.0	2.5-3.5	4-6	5-8	12-18	15-24
	4	-	-	1,5-2	2.2-2.8	3-5,5	8-10	9-15
	5		180	1.4-1.6	1,5-2,4	2.0-3.2	6-7	7-9
Brass	6	-	-	-	1, 1-1,5	1.5-2.5	3.5-4.5	4.5-6.5
	8				0.7-0.9	0.8-1.5	1.6-2.2	2.4-4
	10		-		-	0.5-0.8	0.8-1.4	1.5-2.2
_	12			2	4	2	0.6-0.8	0.8-1.5
	16	-	-	-		-	2	0.6-0.8