



**Westermans International Ltd**  
welding and cutting solutions that don't cost the earth

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# FIBER LASER CUTTING MACHINE 1530A

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Model: 1530A, 3000w Raycus

50KVA stabilizer (Optional)

Smoke purifier (Optional)

Air compressor (Optional)

Enclosed type, single table;

Professional laser source Raycus, best brand in China;

Raytools cuto focus cutting head; (3kw)

Heat treated thick welding machine bed;

Aviation aluminium gantry;

Taiwan,China PEK guide rail;

Taiwan,China T-WIN gear rack;

X,Y,Z axis Japan Fuji servo motor;

German EREFAT motor reducer;

France Schneider electrical components;

Professional CypcutE software;

Automatic lubrication system;

Dual-temperature HanLi/S&A cooling system;

High power exhaust fan system;

80KVA voltage stabilizer;

Germany Aventics air control;

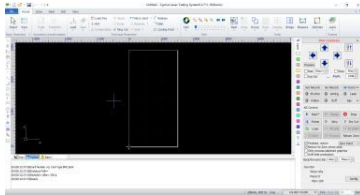
# Configuration



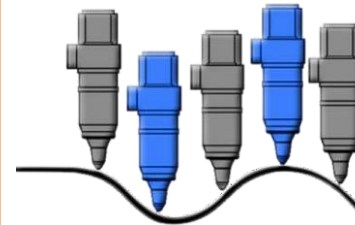
**Raycus Laser Source.**  
100,000 hours life span;  
Stable and cost-efficient;  
Remote networking diagnosis system;  
Free maintenance;  
High quality laser beam output.



**Raytools Auto-focus Cutting Head.**  
Automatic focal point adjustment;  
The adjustment of focal length can be accurate to 0.01mm;  
Efficient water cooling built in design;  
IP65 Dust-proof grade;



**CypCutE Operating System.**  
Shanghai CypCut operating system;  
Professional, advanced technology;  
Support basic auto-nesting function;  
Suitable for kinds of material and thick metal plate cutting.



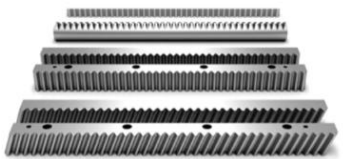
**Height Automatic Adjustment System.**  
Non-contact height following function;  
Adjusting the focal length precisely and automatically according to the height of metal plate.



**Automatic Obstacle Avoidance Function.**  
Preventing collision due to metal plate warping, other foreign matters;  
Avoid damage of cutting head.



**Magnetic Hand-held Unit.**  
Remote control in hand, easy operating cutting head movement.  
Magnetic design, could adsorbed on anywhere surface of machine.



**Taiwan, China T-WIN Gear Rack.**  
High precision & long service life;  
Providing rigorous support for quenching helical gears and grinding helical gears, so that the load drive structure is compact, can effectively reduce the driving torque.



**Taiwan, China PEK Guide Rail.**  
Each guide rail proceed strict photoelectric auto-collimation testing, make sure the precision within 0.03mm.



**Germany EREFAT motor reducer**  
 High output torque with small rotation clearance;  
 PCS-2standardconfiguration,efficiency up to 98%;  
 High gear meshing accuracy;  
 Low noise(less than 58 decibels)



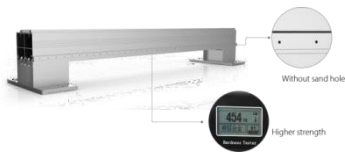
**Japan FUJI Servo Motor**  
 High speed,high precision,high reliability,high power;  
 Gantry double drive mechanism has high damping coefficient, good rigidity,could withstand high speed and high acceleration.



**Dual-temperature cooling system.**  
 Real time display current water temperature;  
 Unique dual-water path design,one for laser source cooling,another for cutting head cooling,efficient assist machine running;  
 Temperature abnormal alarm.



**Auxiliary Gas Supply System.**  
 Compress air,Oxygen and Nitrogen support;  
 Software control gas switch and air pressure.  
 You can buy the gas in local.



**Aviation luminum Gantry.**  
 It's manufactured with aerospace standards and formed by 4300 tons press extrusion molding;  
 Good toughness, light weight, corrosion resistance, anti-oxidation, low density, and greatly increase the processing speed.



**Triangle Saw Teeth Supporter.**  
 High quality steel saw teeth,make sure long time service;  
 Frame edge rolling ball design,easy to move metal plate.



**Automatic lubrication system.**  
 The lubrication time period can be set in the software, to ensure the accuracy of transmission system, operator just need to set up the time intervals in the software and keep the oil container full.



**Fully Enclosed Cover.**  
 The observation window adopts European CE Standard laser protective glass,effective protect operators.  
 The smoke produced by cutting can be timely out of room or filtrated inside;  
 Non-polluting and environmentally friendly.



## Technical Parameter

Working area	1500mm*3000mm
X-axis route	1500mm
Y-axis route	1000mm
Z-axis route	100mm
Running speed	100m/min
Biggest acceleration	1.0G
XY axis positioning accuracy	0.03mm
XY axis repeated positioning accuracy	0.02mm
Machine noise	< 75db
Operating Voltage	380V $\pm$ 5% 50Hz Three-phase
Overall power distribution	Around 21.25kwh
Machine dimensions	4600*2200*2057mm

## Consumables

Items	Pictures	Quantity(Piece)	Service life
Protective lens		1	300-500 working hours
Focus /Collimating lens		2	4000 working hours
Ceramic rings		1	4000 working hours
Nozzles		1	300-500 working hours

## Cutting materials&applicable fields&Cutting samples


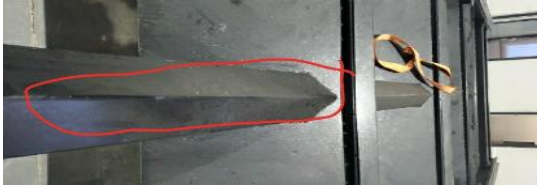
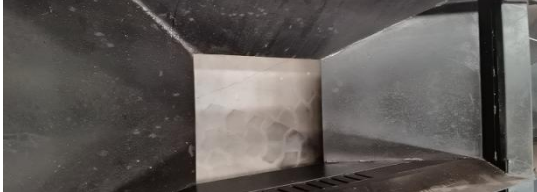
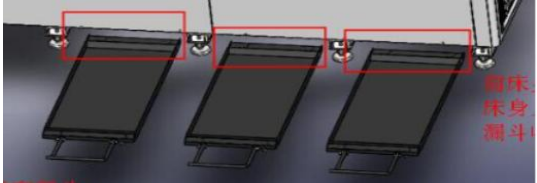
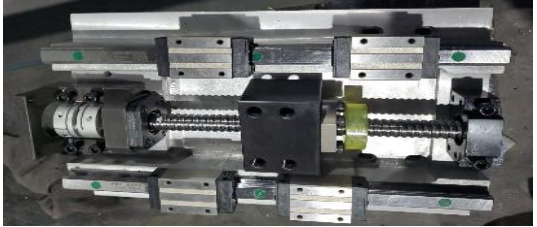
Material	3kw Quality thickness (mm)	3kw Limit thickness (mm)	Auxiliary gas	Reference cutting speed
Stainless steel	8	20	N2	18--25m/min(1mm)
Mild steel	18	10	O2	8.0--10m/min(1mm)

Fiber laser specially cutting middle thick and thin materials such as stainless steel, mild steel/carbon steel, copper, alloy steel, spring steel, galvanized plate etc.

Applicable fields: aviation, aerospace, electronics, appliances, subway accessories, automobile, machinery, precision parts, ships, saw blades, elevators, craft gifts, decoration, advertising...



## Machine warranty

Warranty	2 years warranty for whole machine and whole life after-sale service	
<b>NOT in Warranty</b>	Laser source cable	
	Anti burn board	
	Funnel	
	Receiving trolley	
	Holders for Z axis	
	Arylic & Glass & LED strip	