

Tailift

www.tailiftgroup.com.cn



Fiber Laser Cutting

TL series
TL3015/4020/6020

High-Tech ! Ultimate Performance !

Built for high speed, high accuracy laser cutting

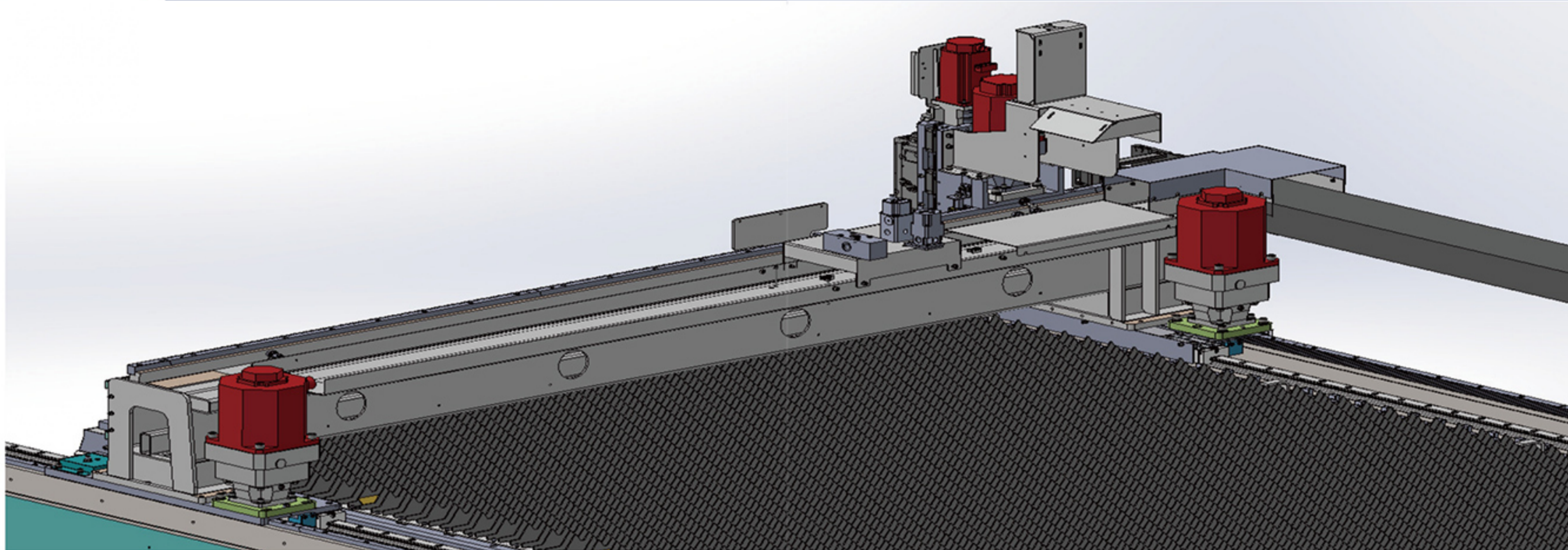
Fully Exhibit Extraordinary Laser Cutting Performance

RAYTOOL LASER CUTTING HEAD

- Optimized optical configuration and smooth and efficient airflow design.
- Auto focus ranges +10~-12mm, accuracy is 0.05mm.
- Can be equipped with the D30 lens group, the maximum fiber input power is 3KW.
- Maximum acceleration of focus lens drive 10m/s², maximum speed 10m/min.
- Drawer-type of lens mount, quick and easy access to replace.
- Collimation and focusing lens can choose of single lens or lens group which can achieve the best optical quality and the effect of cutting.
- With the optical interfaces of QBH、QD、QCS、LLK-D, etc., can be adapted with a variety of fiber lasers.

Fiber Laser Cutting Machine





Electric Circuit System

All components comply with CE&UL standard. With high-response and high-resolution 24-bit encoder (16,777,216 pulses/rev) Japan YASKAWA Sigma-7 servomotor achieves the highest performance in the industry (compared with other servo brands).

Dry Dust collector (Optional)

Filter system: Ultra high efficiency HEPA filter
 Different pressure cleaning controller
 Oil and water separator

Intelligent Feed Drive

X and Y axes are equipped with YASKAWA servo drive system with high rigidity and precision gear reducer and rack & pinion system;
 Light weighted, Dual servo motor synchronized Y axis carriage design is to ensure position accuracy and high speed.

Dual Exchange Table

Easy to loading/unloading different types and sizes sheet materials, Reduces the machine idle time and increase production capacity. Improve the efficiency of processing.



Back of equipment and switch table



CNC Controller

- Easy to operation interface–user friendly
- Cutting Correction, burn correction, Punching correction at different processing component
- Break point selection: unexpected power failure, or unplanned downtime, choose whether or not to reprocess the last processed.



nLight Oscillator

nLIGHT' s semiconductor lasers are the industry' s brightest and operate at unique wavelengths and power combinations. Our high–power continuous wave fiber lasers provide significant advantages over legacy fiber lasers for Programmability, Serviceability and Reliability.

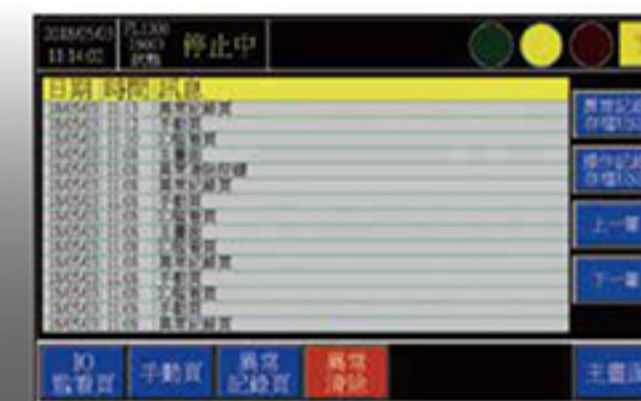
- Reflection Protection
- Hardware–based protection provides uninterrupted failsafe processing of reflective metals with no damage to the laser.
- Unparalleled Serviceability
- Modular design simplifies repairs maximizing uptime.



Watch the picture.



Handling suggested mode information when cutting exceptions



Device Abnormal record screen



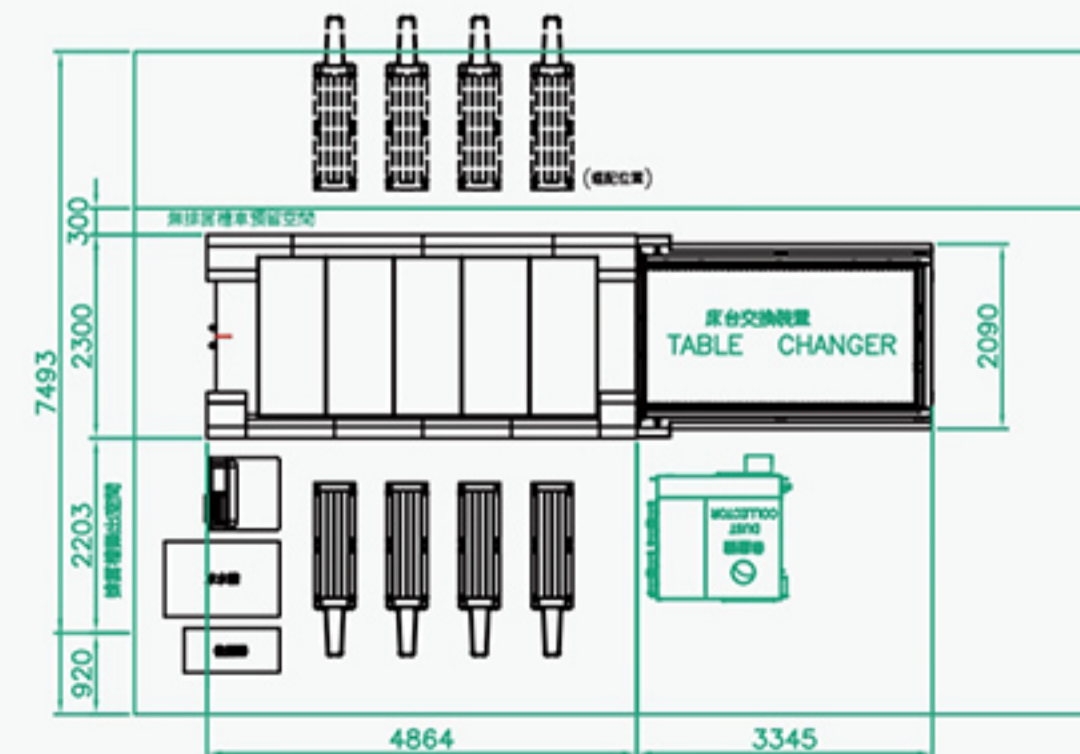
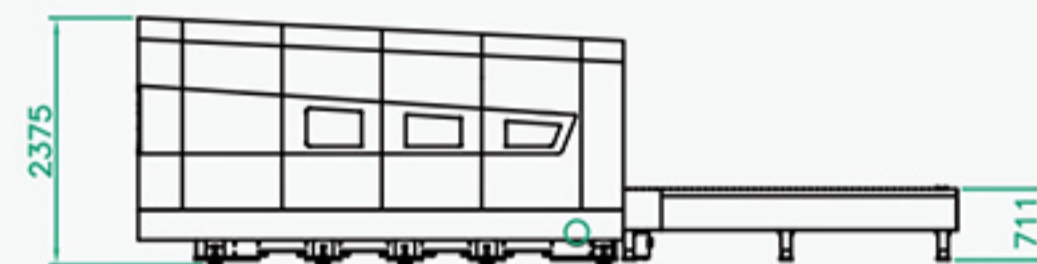
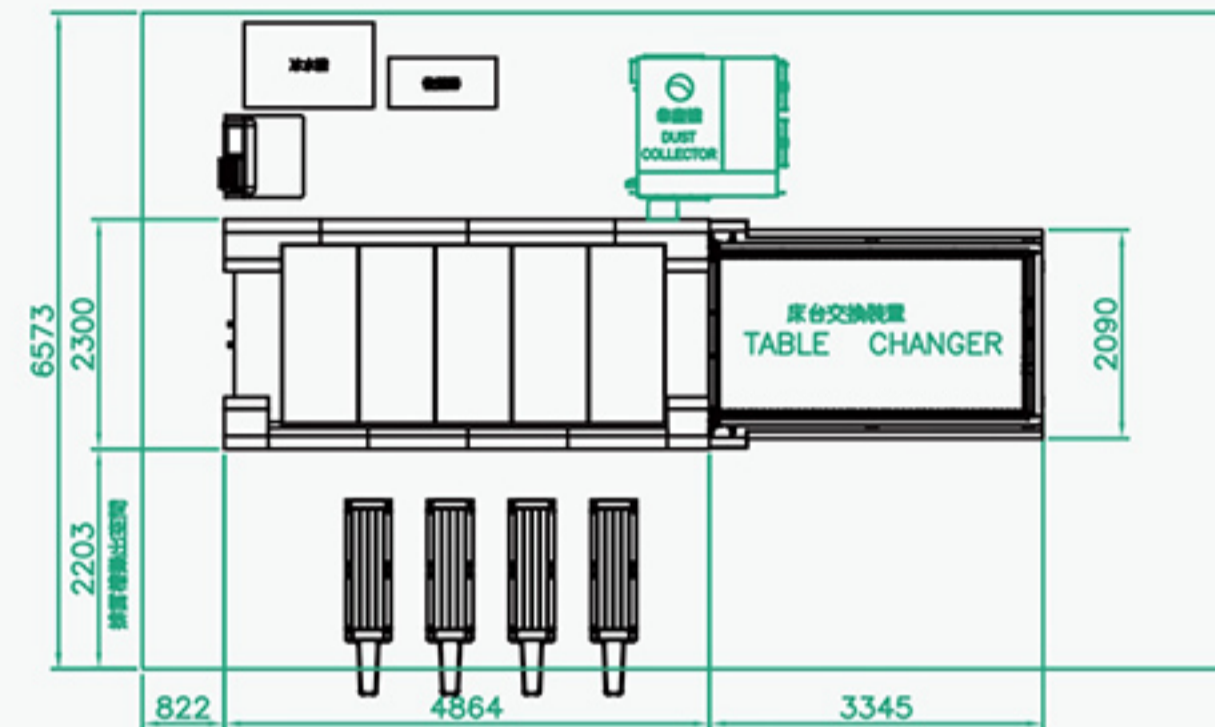
Manual Operation Features Page

Specifications

Project	Unit	TL3015-12	TL3015-20	TL3015-25	TL3015-30
Movement method		3 axes simultaneously controlled			
Control method		Advantech controller			
Machining range(X*Y)	mm	1500*3000			
Travel(X*Y*Z)	mm	1525*3050*150			
Maximum axis movement speed	m/min	80/80			
Feed rate	m/min	110			
Acceleration		1.5G			
Positioning accuracy	mm	0.05/500			
Repeatability accuracy	mm	±0.02			
Power source		AC 3ph.4 wires 220V 50Hz/380V 50Hz			
nLIGHT alta resonator	W	1200	2000	2500	3000
Wave length of laser	nm	1080±10			
lase head		Manual focus adjustment / Automatic (OP)-Only 1200W Automatic-2000~3000W			
Focusing distance for lase head		F125/F150(OP)			
Auxiliary gas for cutting		Oxygen 10bar	Oxygen 10bar ;		
		Nitrogen 10bar	Nitrogen 16bar		
		Air 16 bar	Air 16bar		
Table tupe		Chain Pull Parallel Exchange Workbench			
Height limit	mm	20			
Table Switching time	s	10~15			
Max.workpiece load	kg	600	750		
Machine dimensions (L*W*H)	mm	5010x2285x2375/ 8300x2285x2375(OP)			
Machining accuracy		±0.10			
Machine weight	kg	7000			

- Specifications are subject to change without prior notice.
- Cutting speed may vary with the selected focus, fiber code and equipment.

TL3015 / FLOOR PLAN



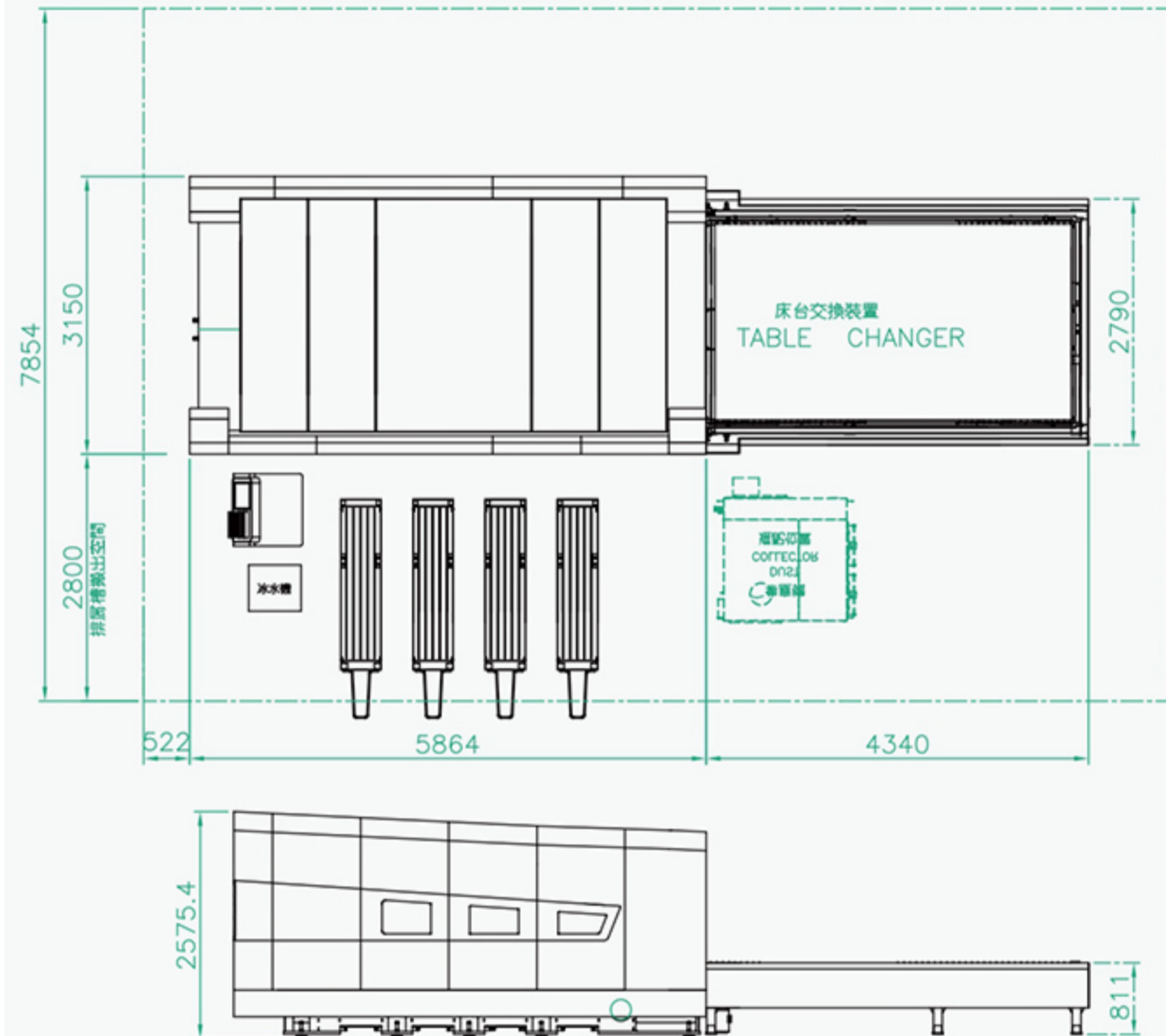
unit: mm

Specifications

Project	Unit	TL4020-12	TL4020-20	TL4020-25	TL4020-30	TL4020-40
Movement method		3 axes simultaneously controlled				
Control method		Advantech controller				
Machining range(X*Y)	mm	2000*4000				
Travel(X*Y*Z)	mm	4010*2015*200				
Maximum axis movement speed	m/min	80/80				
Feed rate	m/min	110				
Acceleration		1.5G				
Positioning accuracy	mm	0.05/500				
Repeatability accuracy	mm	±0.02				
Power source		AC 3ph.4 wires 220V/60Hz				
nLIGHT alta resonator	W	1200	2000	2500	3000	4000
Wave length of laser	nm	1080±10				
lase head		Manual focus adjustment / Automatic (OP)-Only 1200W Automatic-2000~4000W				
Focusing distance for lase head		F125/F150(OP)				
Auxiliary gas for cutting	Oxygen 10bar	Oxygen 10bar ;				
	Nitrogen 10bar	Nitrogen 16bar				
	Air 16bar	Air 16bar				
Table tupe		Chain Pull Parallel Exchange Workbench				
Height limit	mm	-				
Table Switching time	s	15~20				
Max.workpiece load	kg	800	1005	1260	1350	2000
Machine dimensions (L*W*H)	mm	10250x3100x2576				
Machining accuracy		±0.10				
Machine weight	kg	8500				

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TL4020 / FLOOR PLAN



unit: mm

Tailift

Ultimate machining; Excellent Quality.



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