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Fiber Laser Cutting

TL series
TL4020-40A

Fully Exhibit Extraordinary Laser Cutting Performance

- High stability machine structure.
- Max. cutting sizes: 4000 x 2000mm .
- PRECITEC laser cutting head.
- The laser cutting head features automatic focus pre-adjustment function.
- User-friendly operation interface.
- Follow-up type dust collection system with divided areas.
- Max. feed rates on X, Y-axis: 120 m/min.
- Advanced laser control function.



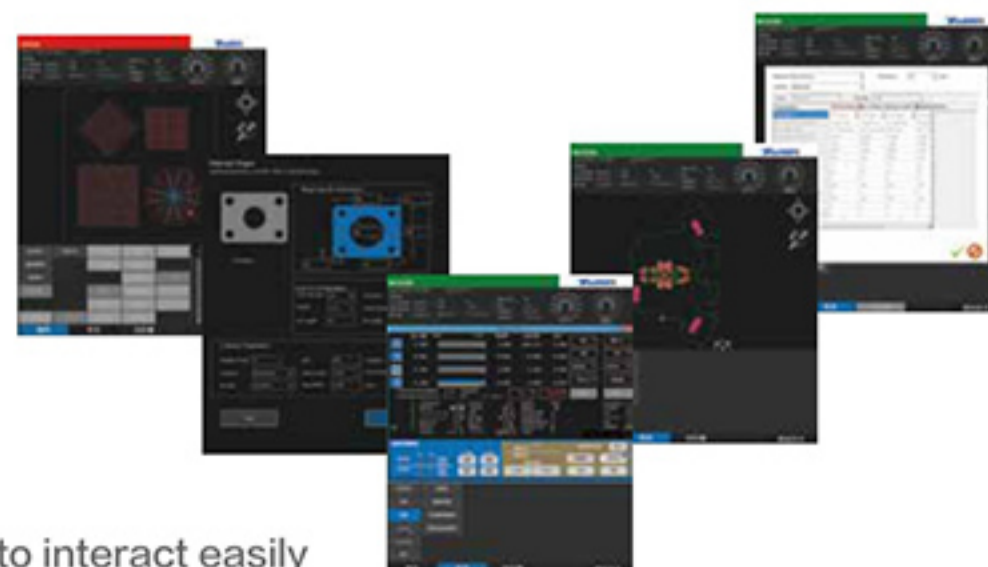
Product Features:

- Focal position and focal diameter can be varied independently of one other
- you can process a wide range of sheet thickness and materials with ProCutter Zoom
- with an adjustable magnification of between 1.25x and 2.5x
- The laser spot size in the process can be changed to a factor of 2 times
- Highest laser power to 12Kw
- With best specifications and performance in the ProCutter series ,to get the affirmation and adoption of high end laser cutting machines worldwide

TAILIFT collaborative development controller

User-friendly functional interface

- ▶ Several modes of height control are available including fully programmable Z positions and height sensors
- ▶ Interface with laser systems including power ramping for improved corner cutting
- ▶ Interrupt and restart the current job, restarting from any pierce point or simply the previous or next pierce point
- ▶ Shape library, convenient access to predefined shapes without requiring separate CAD/CAM system
- ▶ Easily translated in any language required for different customers
- ▶ Meet Industry 4.0



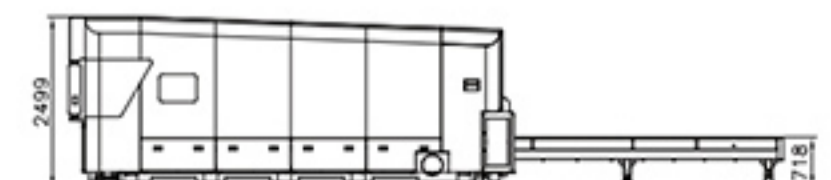
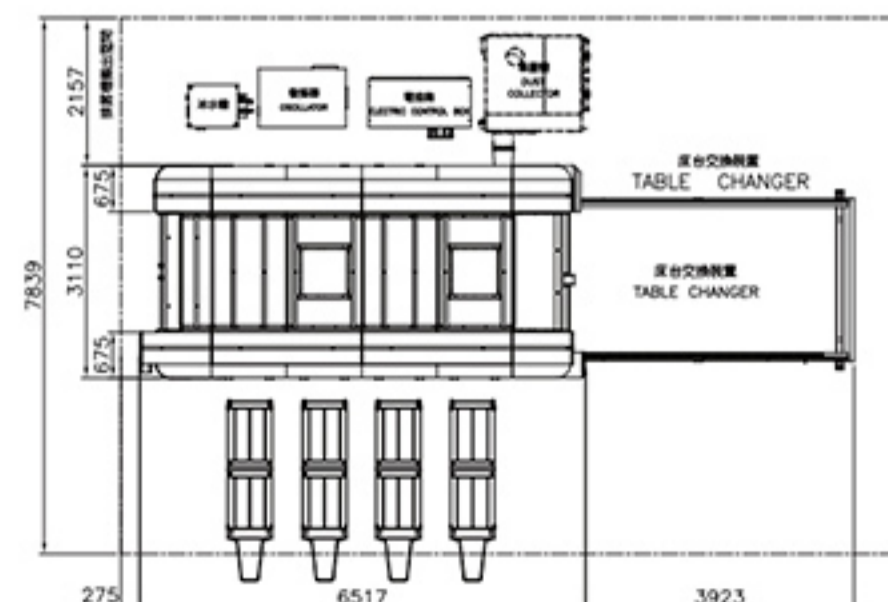
State of the technology, allowing you to interact easily through advanced gestures with the multi-touchscreen



nLIGHT Resonator

Target at thin metal cuts at the fastest speeds and thick metal cuts as CO2 edge quality, nLIGHT develop a new cost-effective fiber laser, where the beam profile is controllable. All-fiber architecture enables a broad tool kit of beam profiles with millisecond switching speed for unmatched tool versatility delivering differentiated value to your customers.

FLOOR PLAN



Unit: mm

Specifications

MODEL	UNIT	TL4020-40A
Movement method		3 axes simultaneously controlled
Control method		TAILIFT
Machining range (X*Y)	mm	4000×2000
Travel (X*Y*Z)	mm	-256~4010×2015×200
Machining speed	m/min	43 m/min (Stainless steel)
Axes simultaneous speed	m/min	170
Acceleration		2G
Min. control unit (X / Y)	mm	0.03/1000
Repeatability accuracy	mm	±0.02
Power source		AC 3 ph.4 wires 380V 50Hz
Power supply	KVA	76
Resonator		nLIGHT Corona 4000W
Wave length of laser	nm	1070±10
Laser source position		Beside the machine
Laser head		Automatic focus pre-adjustment cutting head
Focusing distance for laser head		F125 / F150(OP)
Auxiliary gas for cutting		AIR 16bar/ Oxygen 10bar / Nitrogen 25bar
Table type		Dual exchange table
Moving speed(X*Y)	m/min	120/120
Max. workpiece load	kg	2000
Approx. machine dimensions (LxWxH)	mm	10500×3380×2300
Approx. machine weight	ton	11

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



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