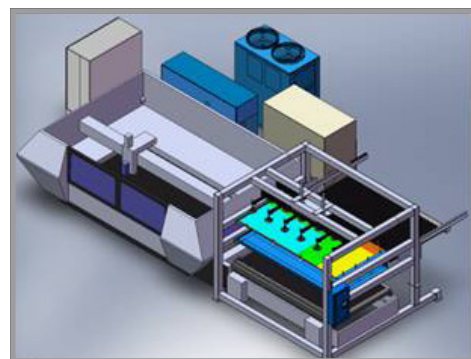


Flexible Solution for Laser & Automation

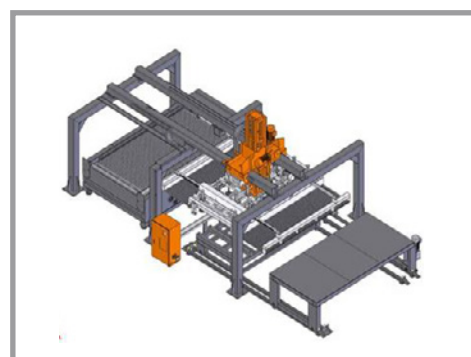
Compact Load/Unload System(HCA)



- Compact and space-saving solution for Automation
- Loading/unloading shelves located right above the shuttle table
- Provides unmanned automated operation for batch production

Items	Specifications
Max. Sheet Size	5' X 10'(1524 X 3048 mm)
Max. Sheet Thickness	15.8 mm
Max. Stack Height	120mm
Sheet separator	Magnetic separator High pressure & shake system
Cycle Time	< 180 sec
Loading	Vacuum suction cups 18 pcs
Unloading	Forks
Dimension	138"(H) x 146"(W) x 209" (D)

Trans-type Load/Unload system(HAT) & Tower System(HCS)

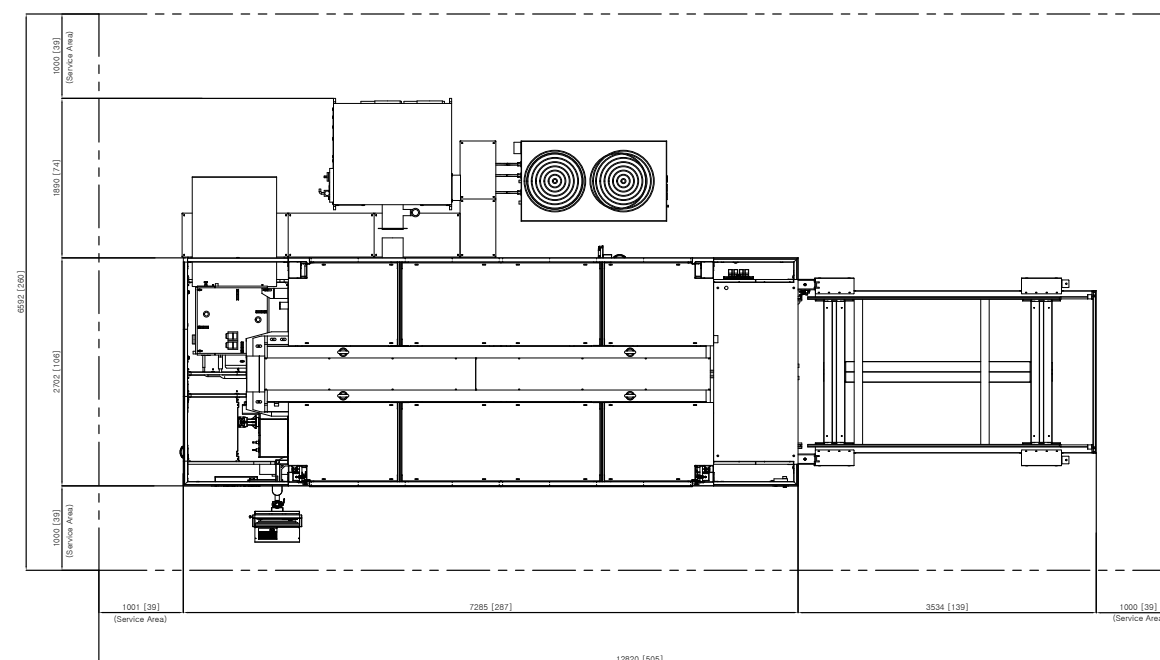


- Trans-type full automated Load/Load system
- Maximum thickness up to 3/4" mild steel
- Automated pre-programmed double carts system
- Automated unloading cart system
- Suction cups for raw materials and folks for cut pieces
- Magnetic separator & auto vibrator for separating sheets
- Expandable to Han-Kwang Tower System(HCS) and multi lasers
- Approximately 3min 30sec complete load/unload cycle time
- Five(5) different layouts to fit customer floor plans
- Either 5'x10' or 6'x12' available
- Stack capacity for tower : 3.54" high or 4400lbs per shelf
- Number of shelves : 8



Specifications

Items	Specifications	Remarks
Laser Power	2kw, 3kw and 4kw Fiber	Source: IPG Photonics
Max cutting size	120" x 60"	
Positioning speed	6,700ipm	X and Y axis combined
Acceleration	2.0G	
Accuracy	+/-0.0039"	Over 120" travel
Repeatability	0.001"	
Monitor	17" Touch Flat Panel	
Operation system	Window XP Pro	
HDD	40G	
Memory	512 MB	
Data communication	USB, Ethernet LAN	
Wavelength	1 micron	



PL3015-Fiber

HAN-KWANG Fiber Laser Cutting System



HANKWANG USA
1120 N. Garfield St. Lombard, IL 60148, USA
TEL : +1-630-916-0200 FAX : +1-630-916-0300

PL3015-Fiber

Innovative Flying-optics Gantry Design

- Center-Drive Gantry System
- Aero Dynamic Engineering with Ultra Light & Laser-welded Structure
- 2G Acceleration and High-Speed Cornering

Unprecedented High-dynamic Cutting for Intricate Shapes

- 2G Acceleration and High-speed Cornering feature
- Maintain the Perfect Accuracy with High-speed Cutting

Side Door Style Open Structure

- Easy Access to the Work Area
- Rotary axis for Tube Cutting available as an Option
- Fiber resonator and Electrical Cabinet All Built-in into Main Frame
- Compact Layout and Easy & Cost-effective to transport

Rotary axis for Tube cutting (Optional)

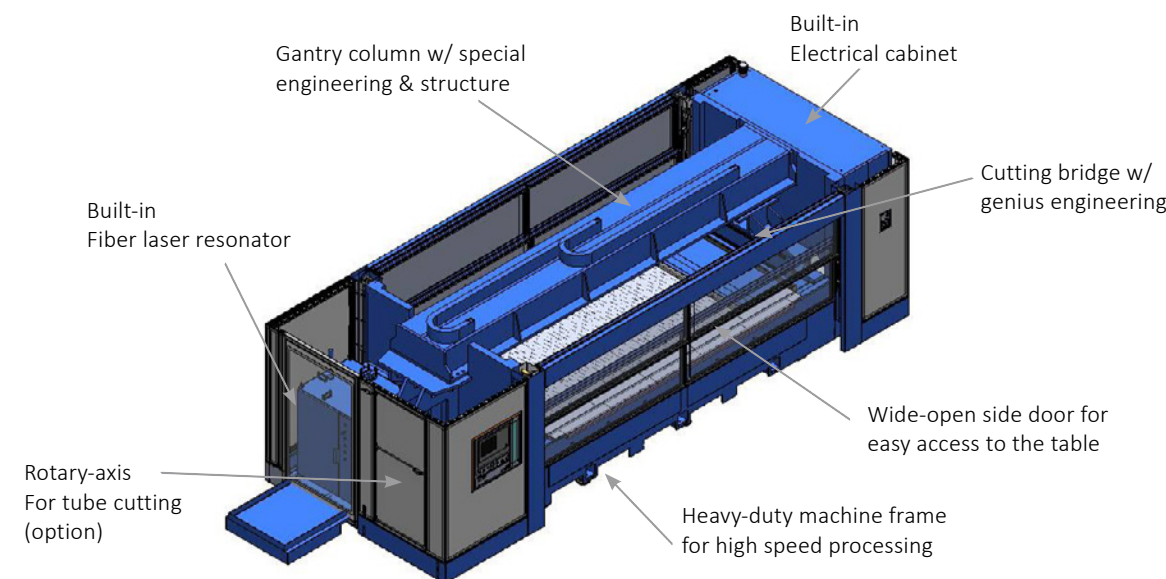
- Tube cutting up to 11.8", Feed-thru Dia up to 6.0"
- Package solution including Rotary axis, Tailstock and Software

Compact Floor Plan

- Built-in Laser & Electrical Cabinet
- Small Footprint and Easy to ship & Install

Heavy-Duty Machine Structure

- 44,000 lbs of heavy-duty structure to provide the solid vibration-free base for high-speed motion system
- Specially designed gantry column and material to maximize the gantry speed with excellent accuracy
- Anchor free installation



Single-emitter based Fiber Laser



Solid-state Fiber laser resonator which adopt the high power single-emitter diode technology makes itself different from those using stack-diodes or low-power diodes.

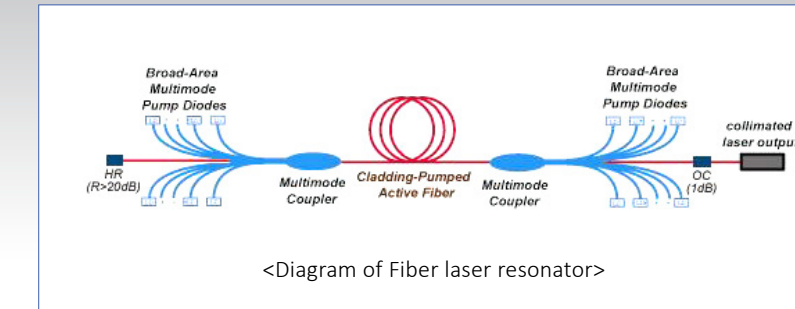
U-axis for tube cutting



U-axis package consists of rotary axis, tailstock, and tube support and it is capable of tube diameter up to 11.8" O.D. It also has a feed-thru hole which can feed tubes up to 6.0" dia.

The World's Most High Dynamic & Versatile Fiber Laser Cutting System

- Ultra-Lightweight Cutting Bridge
- Wide Side-open Door Structure
- Rotary-axis for Tube cutting (option)



High speed Cutting Head



New high-speed cutting head has three optics such as collimator optics, focusing lens and the quick-change type protective window.

User-friendly MMI screen



Control screen is designed to be intuitive and easy to learn and operate. Every function feature and cutting database is just one click away.

Wide-open Structure for Easy access & Flexible Application



Wide-open door structure enables the operator to easily access to the work table and to do various cutting applications and jig & fixture work. One of the popular applications is to cut odd shapes or slots for rectangle tubes lining up side by side at the fixture plate which is designed to put on the laser table.

High-speed 17" screen controller



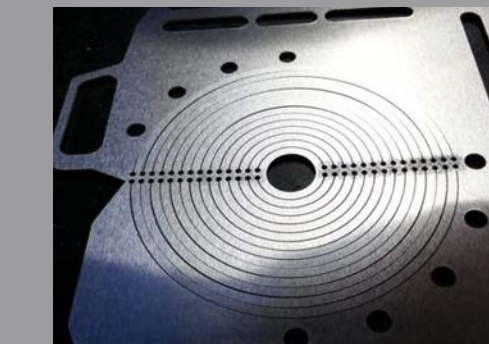
Light-weight pendant type operator control console with wide touch panel screen enables high speed process and has 40GB hard disk and 2GB memory size.

New Generation of Aero-Dynamic & Ultra light-weight Cutting Bridge



Cutting bridge is designed through very creative & genius engineering approach. Its weight is so ultra-light weighted that two adults can easily lift it. Thanks to such innovative aero-dynamic engineering and ultra-light weight structure, it accomplishes very high speed dynamics and accuracy.

Accuracy



Thanks to the light-weight cutting bridge and its ultra-high dynamics, it cuts such a small 0.040" diameter hole with perfect round accuracy at the maximum cutting speed.