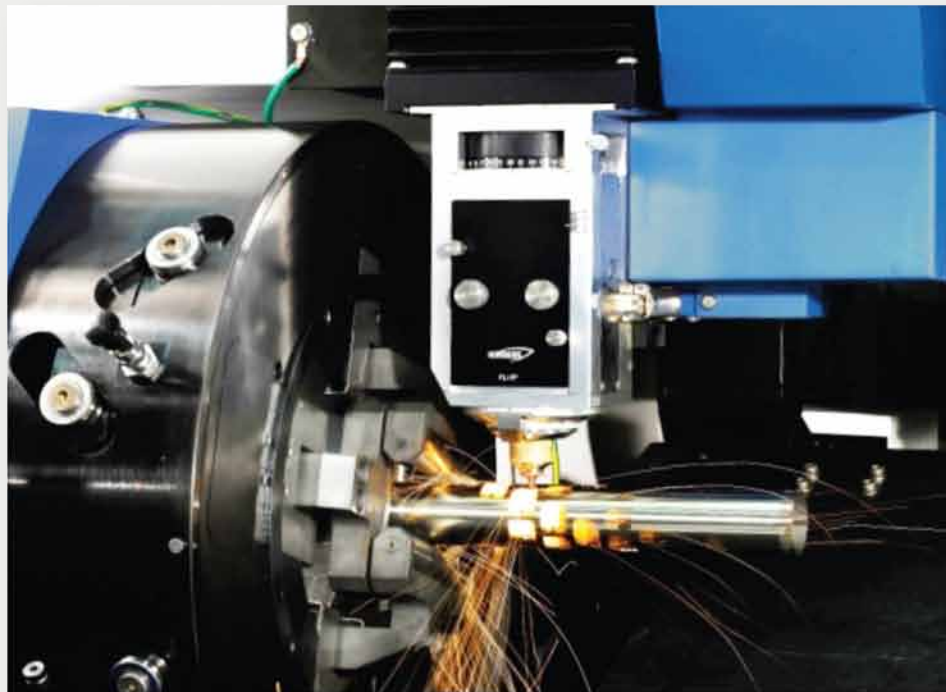


New Horizons
In Laser Machining

Series TL6015

Automatic Laser Tube Cutting System
with Fully Automated Feeding System

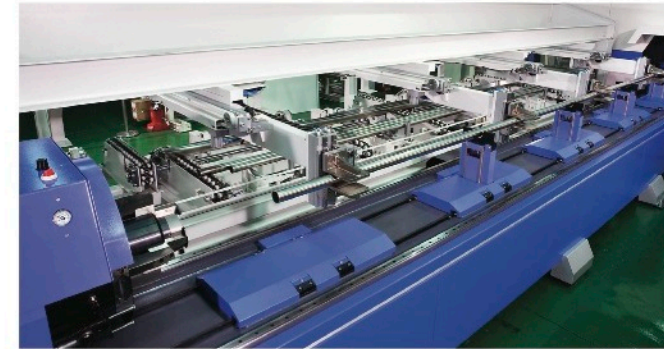
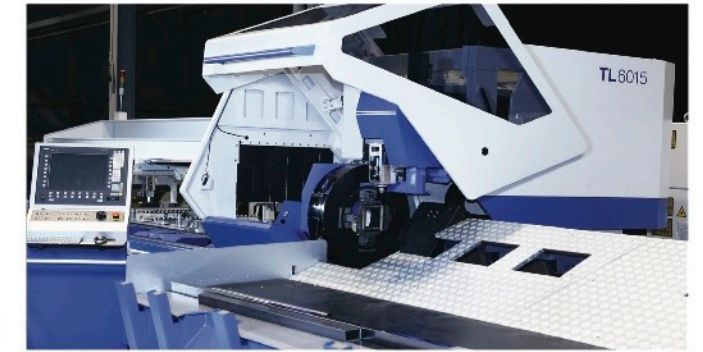
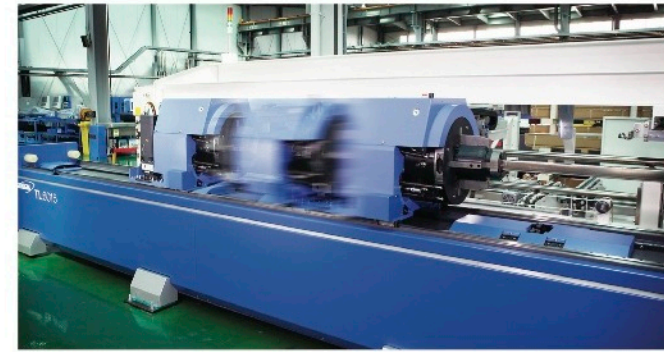


TL6015

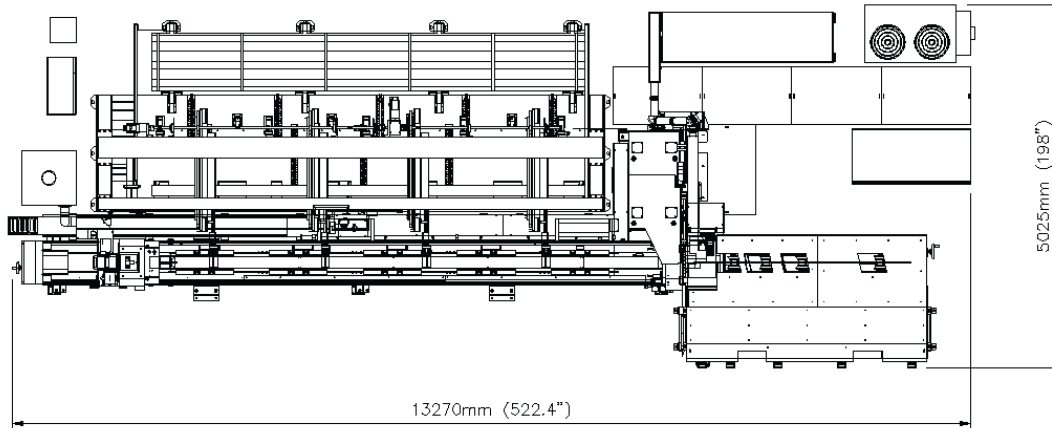
Han-Kwang takes the next step forward in fully automated tube cutting systems with the introduction of the new Series TL. All our experience in tube cutting technology has joined with our expertise in the design and engineering of materials handling systems to offer users a very affordable yet superior quality and highly flexible system for virtually non-stop production of tubes and shapes. Coupled with our exclusive Han-Kwang tubing software and fully controlled by a single CNC workstation, Series TL will provide unmatched productivity to your operation.

TL6015 consists of four major parts:

1. Automatic Bundle Feeding System
2. Rotary Chucking System
3. Cutting Station
4. Part Removal Station



- Max work capability to 20' long x 6" diameter
- Max positioning speed to 4,724 IPM (X-axis)
- Max acceleration to 1G
- Cut thickness to 0.25" Mild Steel and 0.2" Stainless
- Automatic bundle feeding system
- Rotary chucking system
- Tube V-support system
- Part removal station
- Panasonic 2500 Watts laser resonator
- Siemens SINUMERIK 840D with 15" touch screen
- "Flex-3D" tubing software
- Cutting for round, square and rectangle shapes
- Completely enclosed safety workstation
- Auto Focus Control (AFS)
- S5 high-speed cutting head



TL 6015

Length of Tube material	For manual loading (max)	25' 3" (7707mm)
	For automatic loading (max)	21' 4" (6500mm)
	Tube cutting length (max)	19' 8" (6000mm)
	Min. remaining tube length	5 ½" (141mm)
Diameter of Tube material	Round	5.9" (150mm)
	Square	3.9" x 3.9" (100x100mm)
	Rectangle	Diagonal 5.9" (150mm)
Laser		Panasonic 2500 Watts
Wall thickness	Mild steel	0.25" (6.4mm)
	Stainless steel	0.19" (5.0mm)
	Aluminum	0.16" (4.0mm)
Accuracy	Positioning accuracy	+/- 0.004"/ 118" travel
	Repeatability	+/- 0.001"
Speed (X axis, Y axis, Z axis, A axis)		4724 IPM, 1574 IPM, 590 IPM, 120 RPM
Max workpiece Weigh		13.5 lbs/ft

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AUSTRALIA

Laser Cutting & Marking Systems
CNC Machine Tools & Accessories
CNC Routers

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New Horizons
In Laser Machining

Series PS3015

Short Gantry Flying Optics
2D Laser Cutting System

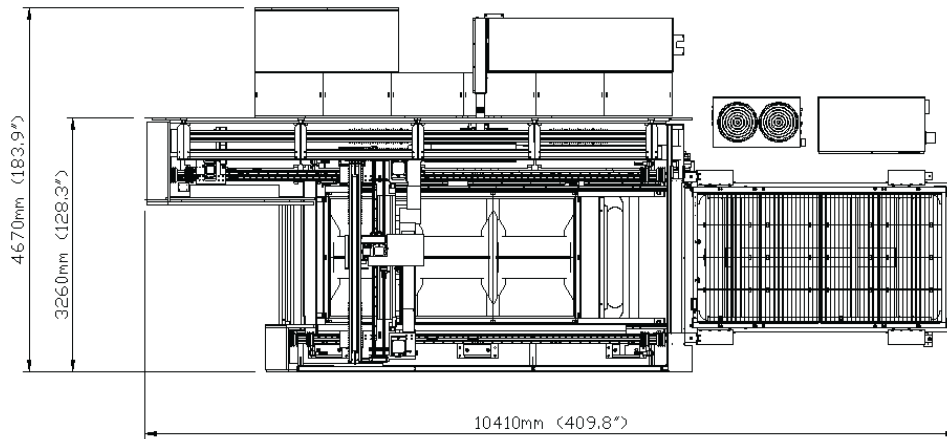


PS3015

Han-Kwang takes the next step in its technology development with the introduction of the Series PS laser system. Incorporating our unique Beam Radius Control (BRC) and Constant Beam Delivery System (CBDS), Series PS also features the newest Han-Kwang laser technology, our S5 High-Speed Cutting Head, which significantly increases the cutting speeds on all sheet metals. In addition, the practical design and highly functional, ergonomic controls make the Series PS the new benchmark in laser cutting systems.

- **BRC-Beam Radius Control**
Through optimizing the beam diameter for each different material and thickness, cut quality is greatly increased.
- **CBDS-Constant Beam Delivery System**
By keeping the entire length of the beam delivery constant over the work area, beam quality at the cutting focal point is enhanced.
- **S5 High Speed Cutting Head**
Adopting the new generation of the sensing board and the cutting head means cutting speeds for sheet metals are dramatically increased.
- **PMU-Plasma Monitoring Unit**
Constantly monitors cut error such as plasma and restart with more stable cutting quality.
- **LCS-Lens Crack Sensor**
Built-in LCS monitors the status of lens contamination to give maintenance personnel instant alerts for replacement.
- **Siemens SINUMERIK 840D with 15" touch screen**
Use of the highest powered CNC, with open architecture and 10 GB hard drive with plain language commands, plus Remote Service Support (RSS) means greater productivity at the machine and overall in your operation.
- **High efficiency air filter & dehumidifier with monitoring window**
Utilizing its own power supply, this unique Han-Kwang system guarantees contamination-free cutting and unmatched consistency.





PS 3015

MACHINE

Max. work size	62" X 123"
Rapid travel speed (Single axis)	4,724 IPM per axis
Rapid travel speed (X, Y simultaneous)	6,692 IPM
Positioning accuracy	+/- 0.004" per 118" travel ($\pm 0.1\text{mm}/3,000\text{mm}$)
Max. cutting speed	1,181 IPM (30,000mm/min)

CONTROL

Model	Siemens SINUMERIK 840D
Display screen	15" LCD Touch Screen
Hard Disk	10GB
Memory size	2 MB
Program input system	USB Drive, Ethernet LAN
RSS (Remote Service Support)	Available

LASER RESONATOR

Model	Panasonic CO ₂ laser resonator
Power	2,500W / 4,000W / 6,000W
Beam mode	TEM ₀₁ Mainly
Laser gas	CO ₂ : N ₂ : He = 1.7% : 23.4% : Balanced

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