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## Han-Kwang Introduces Three New Lasers



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### HANKWANG USA, INC.

Press release date: January 2, 2010

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Korean giant enters U.S. market with big splash at recent FABTECH show

At the recent FABTECH show in Chicago, the largest builder of laser machines in Korea introduced three new CO2 lasers for metal fabrication, including two plate/sheetmetal machines and one tube/pipe cutter. Reaction from the attendees was very positive and interest quite high, as all three machines ran continuously throughout the show.

Details on the machines follow here:

Han-Kwang takes the next step in its technology development

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with the introduction of the Series PL laser system. Incorporating our unique Beam Radius Control (BRC) and Constant Beam Delivery System (CBDS), Series PL also features the newest Han-Kwang laser technology, our S5 High-Speed Cutting Head, which significantly increases the cutting speeds on all sheet metals, up to 1120 IPM for 20ga mild steel and 790 IPM for 16ga stainless. In addition, the practical machine design and highly functional, ergonomic controls make the Series PL the new benchmark in long gantry laser systems.

**Features**

- o BRC-Beam Radius Control
- Through optimizing the beam diameter for each different material and thickness, cut quality is greatly increased.
- o 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.
- o S5 High Speed Cutting Head
- Adopting the new generation of the sensing board and the cutting head means cutting speeds for sheet



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- ▶ [Laser Cutting Machine incorporates touch panel HMI.](#)
- ▶ [CO2 Laser suits plastics and organics processing.](#)
- ▶ [CO2 Laser \(1 kW\) measures less than 1,500 x 500 x 400 mm.](#)
- ▶ [High-Speed Laser Cutting System utilizes 4.4 kW laser source.](#)
- ▶ [Laser Cutting System suits sheet metal processing.](#)
- ▶ [Single-Mode Fiber Laser produces bright, 10 kW output.](#)
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- ▶ [Fiber Laser Cutting Machine offers cutting-on-the-fly.](#)
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metals such as mild steel, stainless and aluminum are dramatically increased.

- o PMU-Plasma Monitoring Unit

Constantly monitors cut error such as plasma and restart with faster piercing and more stable cutting quality.

- o LCS-Lens Crack Sensor

Built-in LCS monitors the status of lens contamination to give maintenance personnel instant alerts for replacement.

- o Rotary axis for tube cutting

Cuts tubes up to 12" OD to give your operation substantial flexibility in work strategies

- o Siemens SINUMERIK 840D with 15" touch screen

Use of the highest powered CNC, with open architecture and simplified set-up with plain language commands, plus full interface to your shop programming/monitoring network, means greater productivity at the machine and overall in your operation

- o Onboard 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.

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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, up to 1120 IPM for 20ga mild steel and 790 IPM for 16ga stainless. In addition, the practical machine design and highly functional, ergonomic controls make the Series PS the new benchmark in short gantry laser systems.

#### Features

- o BRC-Beam Radius Control

Through optimizing the beam diameter for each different material and thickness, cut quality is greatly increased.

- o 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.

- o S5 High Speed Cutting Head

Adopting the new generation of the

sensing board and the cutting head means cutting speeds for sheet metals such as mild steel, stainless and aluminum are dramatically increased.

- o PMU-Plasma Monitoring Unit

Constantly monitors cut error such as plasma and restart with faster piercing and more stable cutting quality.

- o LCS-Lens Crack Sensor

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- o Siemens SINUMERIK 840D with 15" touch screen

Use of the highest powered CNC, with open architecture and simplified set-up with plain language commands, plus full interface to your shop programming/monitoring network, means greater productivity at the machine and overall in your operation

- o Onboard 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.

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 ProDesign 3D CAM/CAM software and fully controlled by a single CNC workstation, Series PL will provide unmatched productivity to your operation.

Highlight of the Series TL is our highly advanced S5 cutting head, which combines superior measurement and sensing mechanisms to change from signal size to pulse monitoring, resulting in optimum cutting conditions. This new cutting head design is further enhanced by Han-Kwang's quick piercing nitrogen-injection technology. Smaller holes, quicker ambient area cooling and a substantial reduction in hole-to-hole cutting time will all benefit your production and your bottom line.

Features

- o BRC-Beam Radius Control
- o CBDS-Constant Beam Delivery System
- o Magazine-fed bundle tube loading system
- o Tube V-support system
- o Rotary chucking system
- o Completely enclosed safety workstation with automatic doors and light barrier system
- o Panasonic 2500W resonator
- o Cutting capability to 21' long x 6" diameter
- o Material thicknesses to 0.25" mild steel and 0.2" stainless
- o Siemens SINUMERIK 840D, the highest-powered CNC on the market for maintaining complete processing cycle control by a single operator, using touchscreen and simple language commands
- o ProDesign 3D CAD/CAM enabling fast adjustments to the production scheduling to yield maximum productivity from the system
- o Unique Han-Kwang air filtration and dehumidifying system for cleaner cuts and more operator-friendly environment

For more information on this emerging new player in the laser machine market, please contact:

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