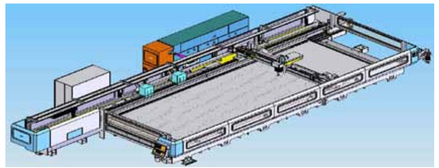
Laser Resonator

	1000 1500 2000	2500 3000	4000	5000 6000	7000 8000
Optical Passes	2	2	2	3	4
Internal Optics	4	4	4	6	8
Life hours of output coupler	8000	8000	8000	6000	6000

- The turbo blower is rebuild free
- Low laser gas consumption
- Less optical passes
- Longer lifecycle
- Modular design for easy service
- 50,000+ hrs. MTBF for the turbo blower
- Superb beam profile & cutting quality
- Great field proven reputation

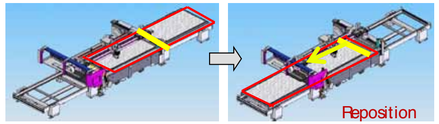
Unique Engineering

HAN-KWANG PS 6025 / 8025

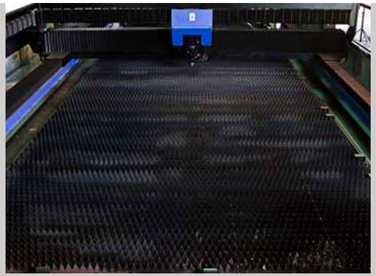


- Non-stop travel of cutting gantry over the entire area
- No need for repositioning / indexing
- Dual shuttle table
- Job-changeover time: 40 sec.
- Twin SINUMERIK servo motors at the 8' long gantry
- 5500 ipm rapid traverse speed
- Constant Beam Distance System (CBDS)
- Collimator and AFC (Auto Focus Control)
- Uniform cutting quality over the entire work area

Competitors



- Table needs to be repositioned or indexed to cover the rest of the sheet length
- Single motor at one end of 13' long gantry
- Single table
- Job-changeover time: 10-15 min.
- 1300 ipm traverse speed
- No CBDS
- Inaccurate cutting at the connection point



System Layout & Specifications

Laser Model		2.0KW	2.5KW	3.3KW	4.0KW	5.0KW	6.0KW
Table size		PS6025: 2.5m(8') X 6m(20') / PS8025: 2.5m(8') x 8m(26')					
Max. Rapid		5500 IPM					
Max. Rapid X		3600 IPM					
Max. Rapid Y		3600 IPM					
Accuracy		0.0039" over 120"					
Repeatability		0.001"					
Operating Software		Window XP Pro					
Monitor		15" Flat Touch Panel Screen					
HDD		40G					
Memory		512M					
Communication		USB, Ethernet LAN					
Power Consumption (incl. Dust Collector)		90KVA	100KVA	120KVA	135KVA	150KVA	163KVA
230VAC Service		220A	260A	290A	330A	370A	405A
460VAC Service		112A	125A	145A	165A	185A	200A
Laser Gas		10 L/Hr	10 L/Hr	10 L/Hr	25 L/Hr	25 L/Hr	25 L/Hr
Air Consumption Main Machine		ISO 8573-1 Standard					
		26CFM					
		1/2" Connection					
Cooling Water		Distilled Water (70%) : Propylene Glycol (30%)					
Cutting Head		HK S5					
Max. Cut*	Mild Steel	0.625"	0.75"	0.75"	1.00"	1.00"	1.25"
	Stainless 304	0.32"	0.375"	0.50"	0.625"	0.75"	0.75"
	Aluminum 60	0.25"	0.25"	0.375"	0.375"	0.50"	0.50"

* Max Cut thickness is typical and only for reference, not guaranteed, and varies depending upon the material quality and the cutting parameters and circumstances.

* Specifications are subject to change without notice.

PS
Oversize

Flying Optic Series
2D Laser Cutting System

HANKWANG
LASER AND AUTOMATION

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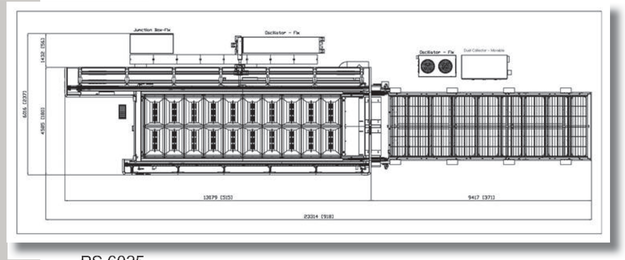
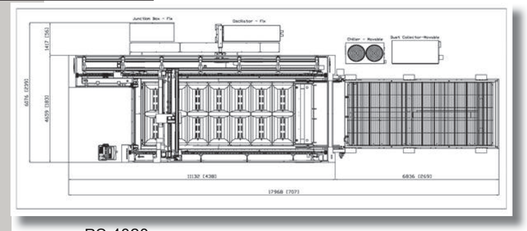
Wide Selection of Table Sizes

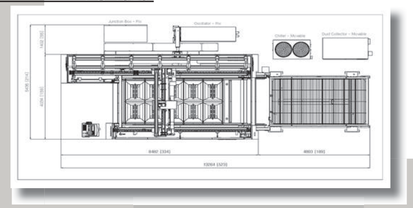
PS 8025



PS 6025



PS 4020



Model	Table size
PS8025	26'x 8' (8.0m x 2.5m)
PS8020	26'x 6' (8.0m x2.0m)
PS6025	20'x 8' (6.0m x 2.5m)
PS6020	20'x 6' (6.0m x 2.0m)
PS4025	13'x 8' (4.0m x 2.5m)
PS4020	13'x 6' (4.0m x 2.0m)
Laser power	2.5KW 3.3KW 4.0KW 5.0KW 6.0KW 7.0KW

Features & Functions

- Synchronized dual servo motor gantry
- Durable rack & pinion motion system
- Adaptive optics AFC unit
- Quick change lens cartridge
- Rigid heavy-duty body frame
- Built-in air filtration & dryer system
- Automatic dual shuttle table
- Zone & ducting exhaust system
- Automatic nozzle cleaning system
- Aiming diode laser
- Cross-jet oil mist spray system
- Flat 15" touch screen panel
- Beam collimator & phase retarder unit
- Step-down transformer

Design & Structure

- Dynamic power/speed ramping
- Edge detection & axis re-alignment
- High-speed etching mode
- Quick Micro-tap & Micro-welding
- Pre-piercing mode
- Multi Pulse Piercing (MPP)
- Built-in maintenance scheduler
- Operation scheduling
- Restart & retrace
- Various lead-in patterns
- Various head moving modes
- Pro-Design nesting software
- Plasma Monitoring Unit (PMU) option
- Constant Beam Distance System (CBDS)

PS oversize

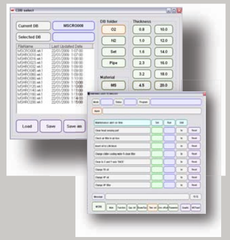
Faster and non-stop cutting without repositioning.

High-Speed S5 Cutting Head

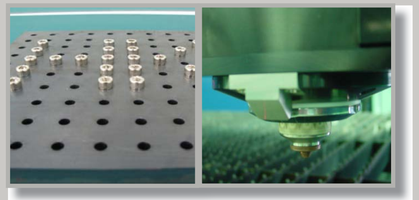
The new high speed cutting head incorporated with the new FM sensing technology provides unsurpassed cutting speed and edge quality with a cross-jet oil spray unit, a quick-change lens cartridge, and a built-in HP quick-pierce system.

15" Flat Screen Touch-Panel

Lightweight roll around operator console with wide touch-panel screen gives enhanced convenience and easiness to operate the machine.

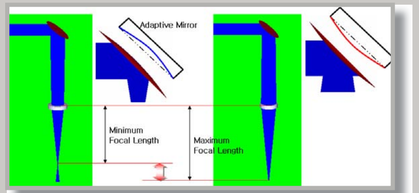


HP Quick Pierce System



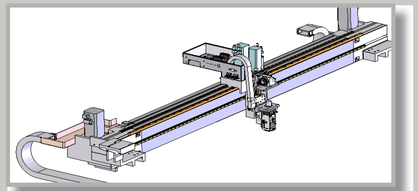
The innovated Quick Pierce System is a built-in standard feature which makes piercing for thick materials swift and effortless; which makes the hole 50-60% in diameter of the thickness that will appear as a pulse pierce, making the hole miniscule & clean.

Auto Focus Control (AFC)



This pneumatic-control AFC adaptive optical system keeps the focused beam spot size constant and consistent wherever the cutting head is located; also providing the pre-programmed automation of focal positioning when loaded with a different material.

Dual Servo Motors Drive



Light weight gantry which is driven by SIEMENS synchronized dual servo motors enabling 1.5G of acceleration and long-term reliability of the gantry system.

Constant Beam Distance System (CBDS)

CBDS maintains a constant beam size and focal point by keeping the entire length of beam path constant regardless of the cutting head location over the work table, providing superior cutting quality and consistency over the work area.