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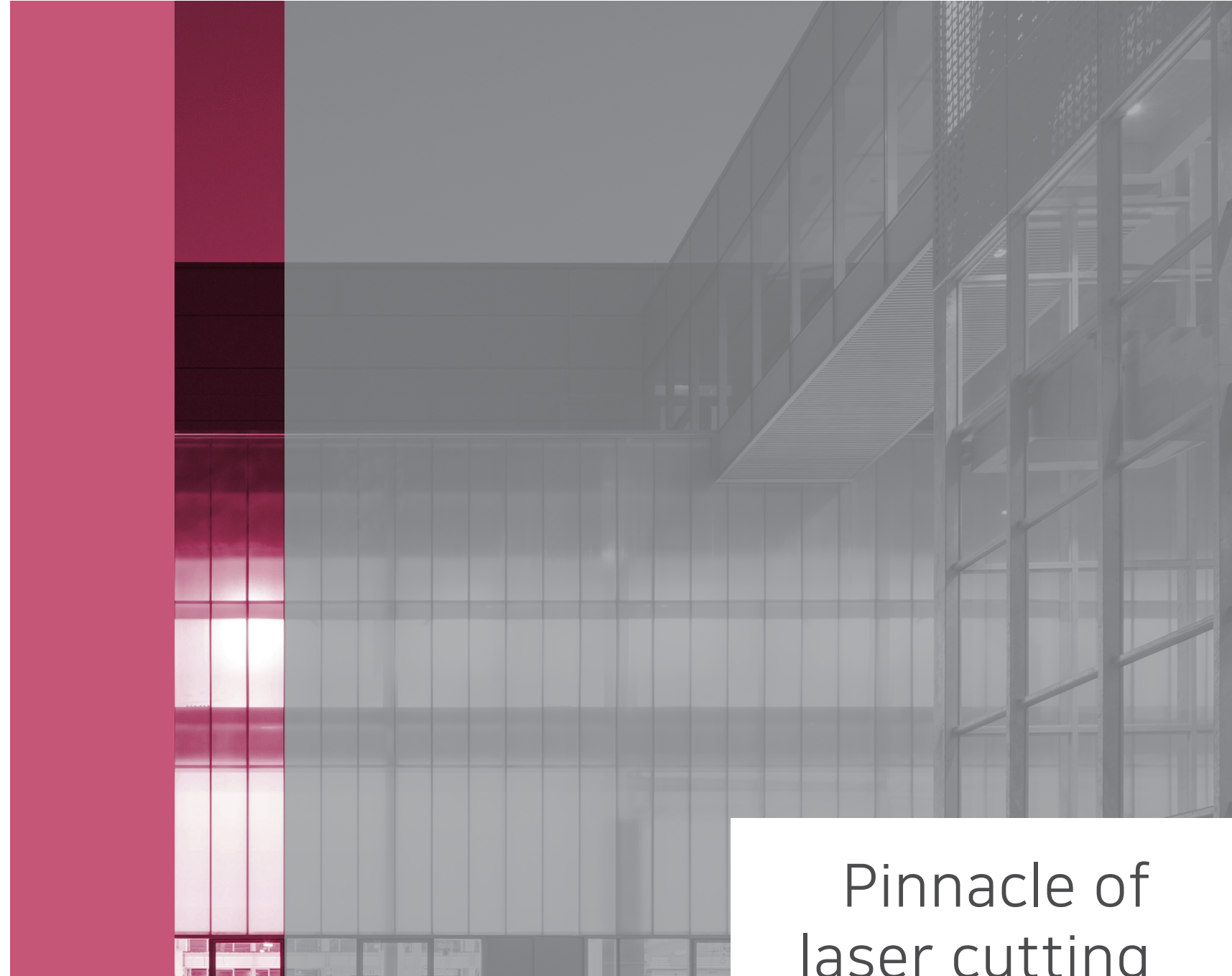
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Pinnacle of laser cutting technology



LASER & SYSTEMS

ENG

CREATING THE VALUE OF SUCCESS

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LINE UP

Based on machinery design technology optimized through strict structural analysis, HK has been manufacturing ultralight and high-precision industrial high energy laser cutting machines.

In addition, we provide total solution for sheet metal working that customers want such as bending, welding, deburring, and loading automation.

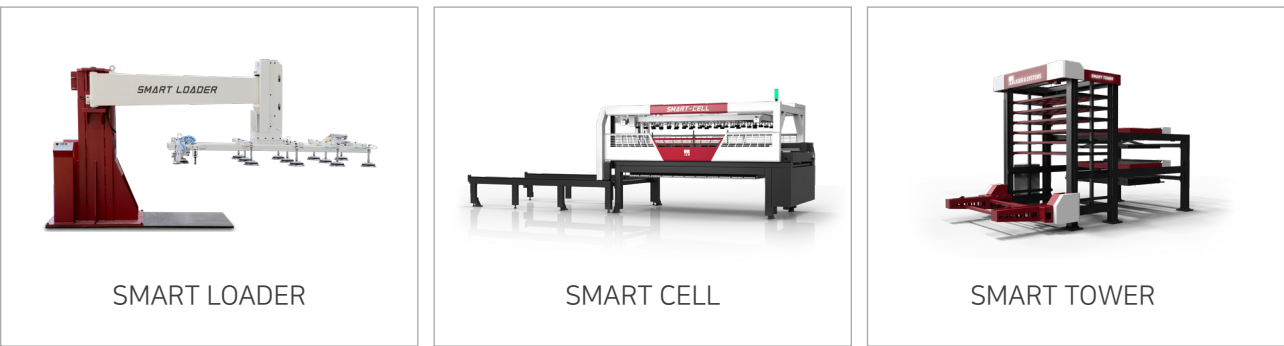
> FIBER



> CO₂

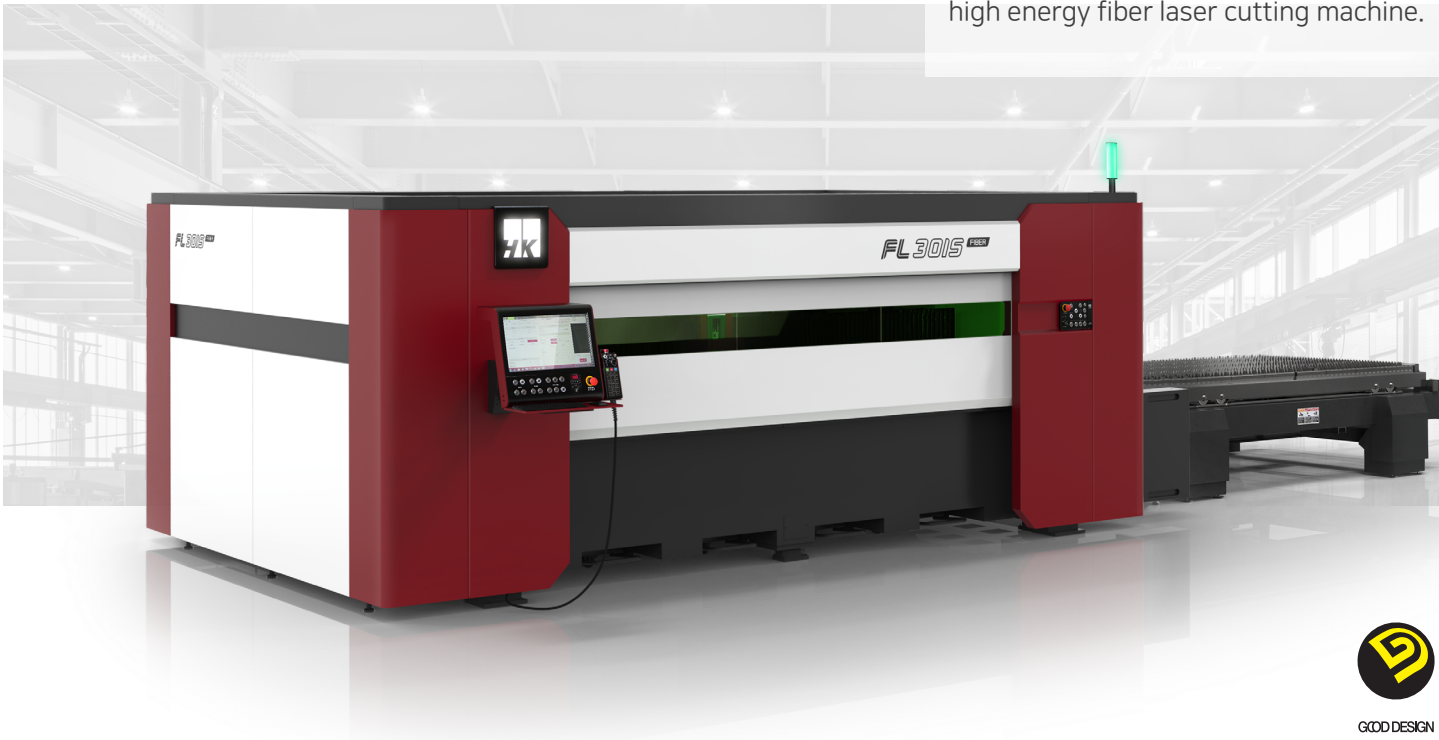


> AUTOMATION



FL3015 FIBER

FL3015 FIBER is an industry standard high energy fiber laser cutting machine.

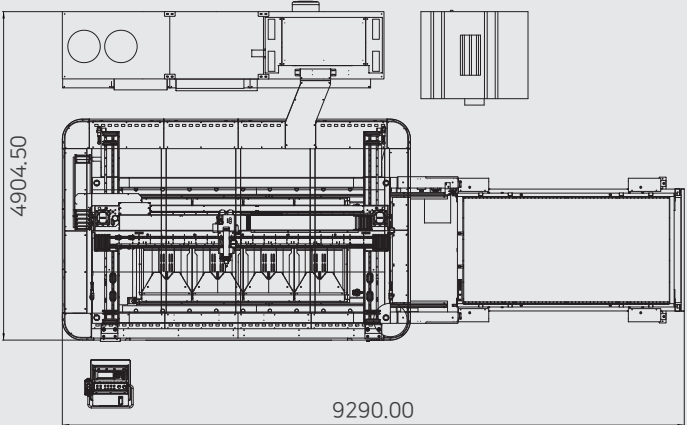


FEATURES

- | | |
|--|--|
| · Wide open door | · Tube cutting (Optional) |
| · High-stiff main frame that minimizes vibration | · Ultralight and high-stiff cutting bridge |
| · Dynamic motion control | · Optimal thick plate cutting by Smart Cut (Optional) |
| · Quick piercing that shortens piercing time and improves quality | · No need for separate oscillator room (a Thermo-hygrostat mounted in modular box) |
| · High precision and high quality cutting of ultra-thin (0.1mm~0.5mm) material | · Cutting of high-reflective and high-level processing material |
| · No alignment / No overhaul / No mirror | |

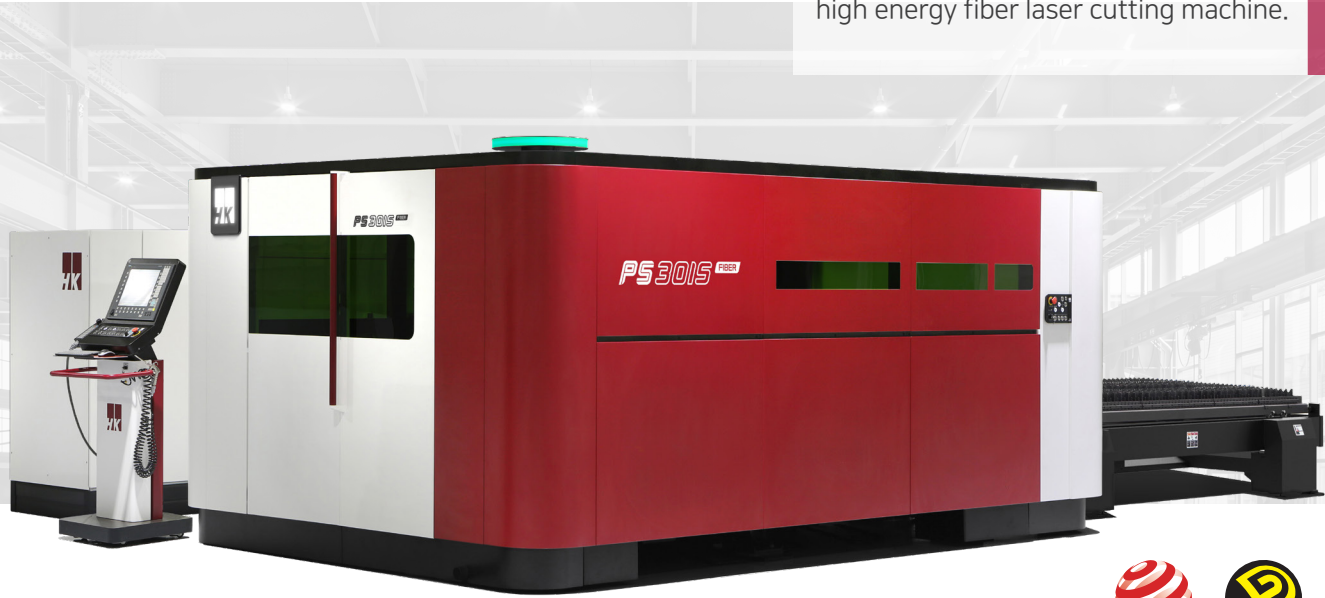
*Additional service area is required.

*mm



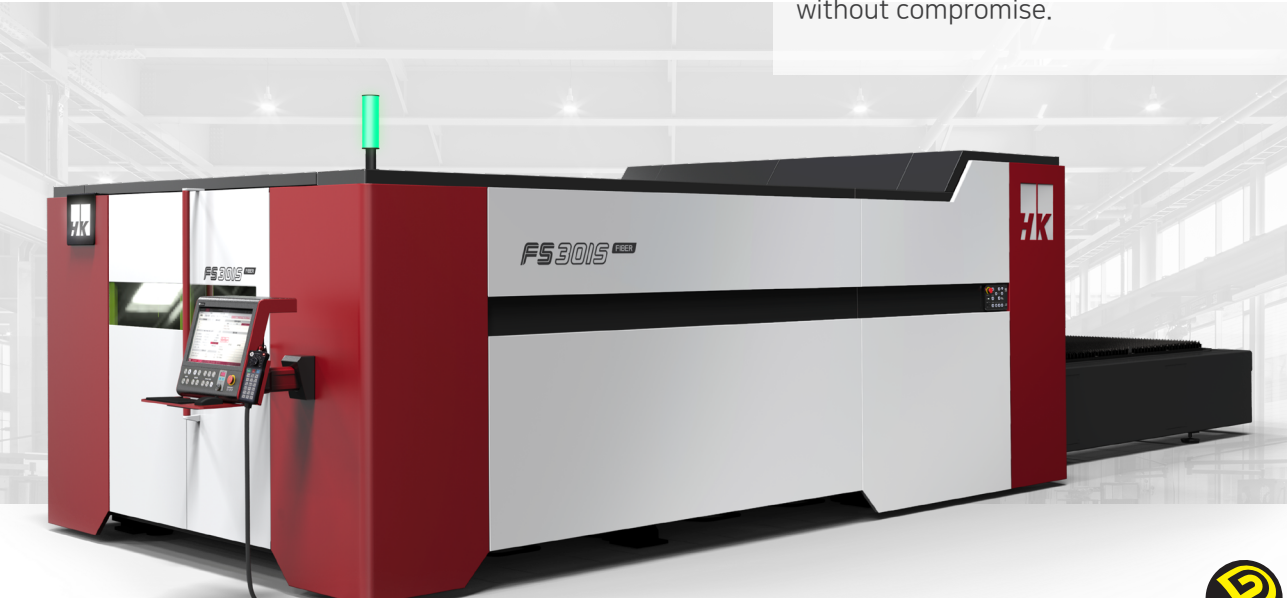
PS SERIES FIBER

PS SERIES FIBER is premium model of high energy fiber laser cutting machine.



FS3015 FIBER

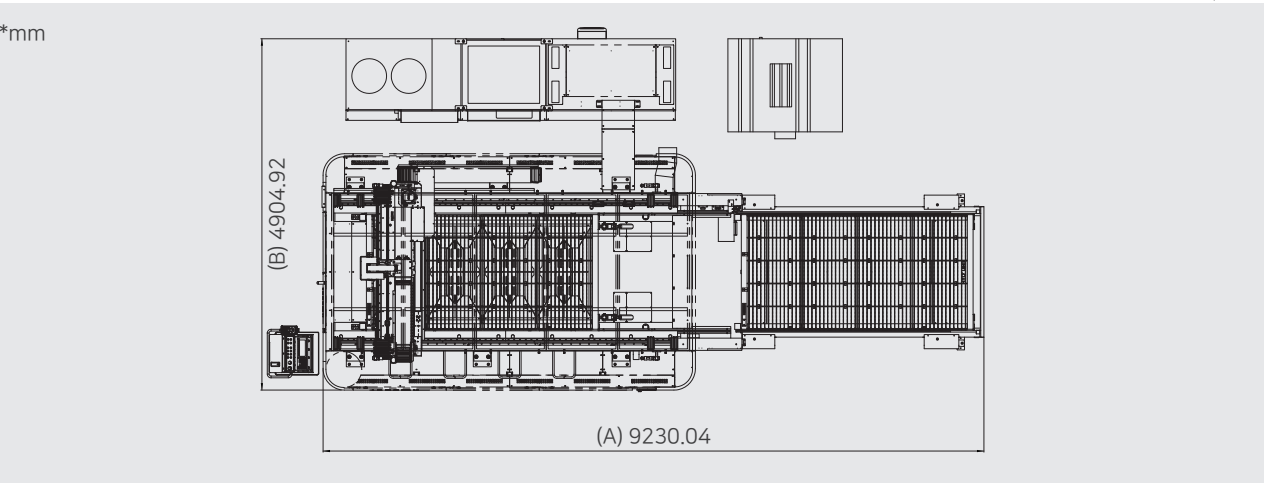
FS3015 FIBER is the ultimate value without compromise.



FEATURES

- High-stiff main frame that minimizes vibration
- Ultralight and high-stiff cutting bridge
- Dynamic motion control
- Optimal thick plate cutting by Smart Cut (Optional)
- High precision and high quality cutting of ultra-thin (0.1mm~0.5mm) material
- Cutting of high-reflective and high-level processing material
- No alignment / No overhaul / No mirror
- Maximum work area of 8m x 2.5m

*Additional service area is required.

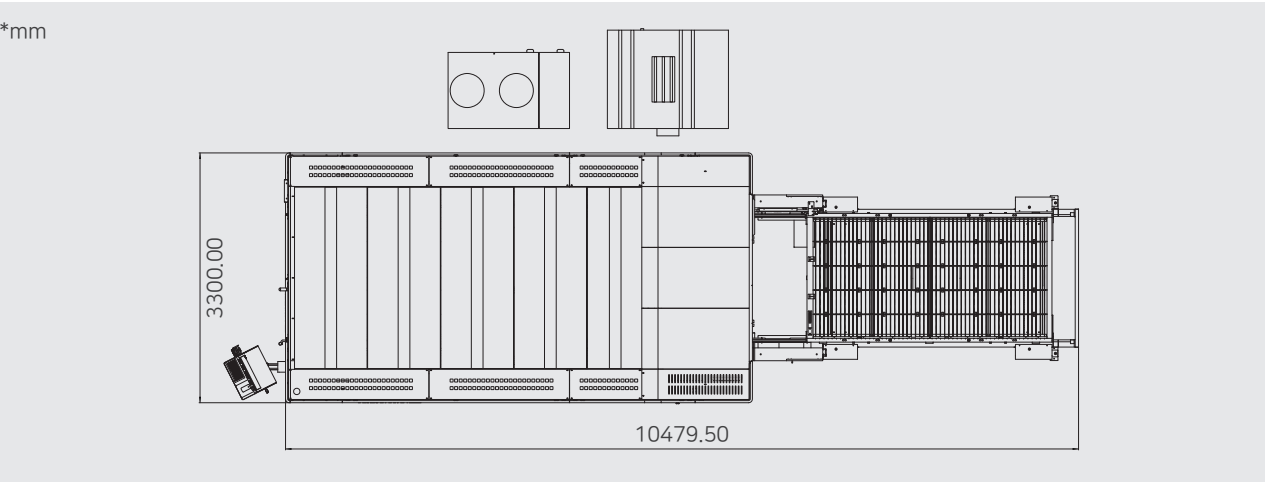


	PS3015	PS4020	PS6025	PS8025
A mm	9,230.04	11,400	15,280	20,095
B mm	4,904.92	5,405	5,936	6,040

FEATURES

- No Alignment / No Overhaul / No Mirror
- Ultralight and high-stiff cutting bridge
- Dynamic motion control
- Available on High-reflection/high-tech material
- 21.5" Wide touch screen
- High-precision & high-quality cutting capability
- No need separate room for resonator, temperature / humidity control for resonator
- Space-saving by mounting e-box & resonator onto main frame
- Optimized strategic model with cost-effectiveness / functionality / practicality

*Additional service area is required.



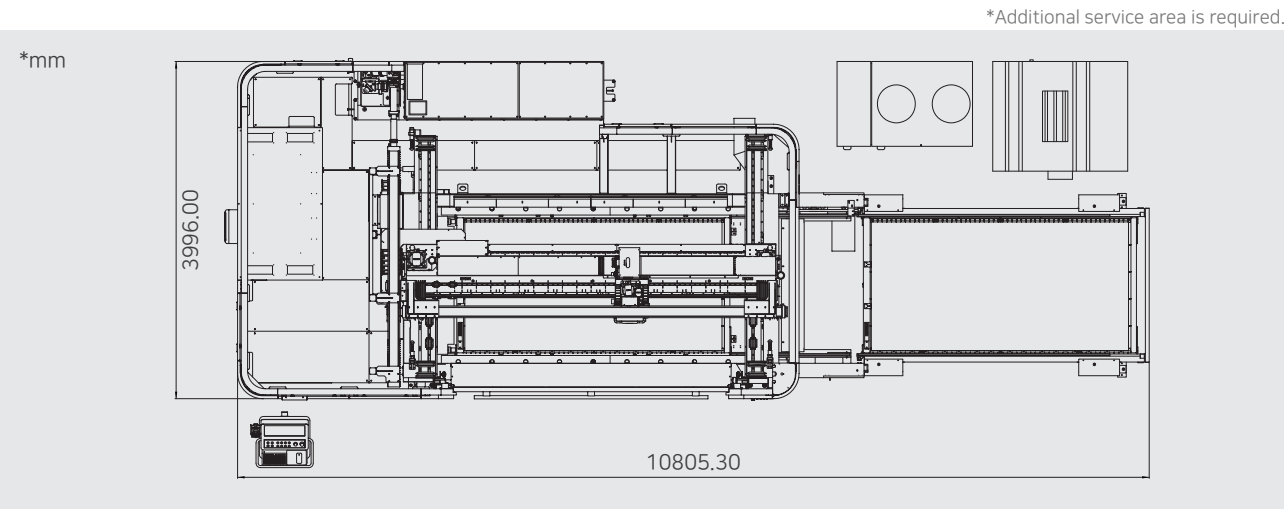
FL3015 CO₂

HK's main model and industrial standard high energy laser cutting machine **FL3015 CO₂**.



FEATURES

- Wide open door
- Synchronized dual servo motor
- Lens cartridge switching
- Tube cutting (Optional)
- Auto focus control (AFC)
- Plasma monitoring system saving piercing time and preventing cutting failure



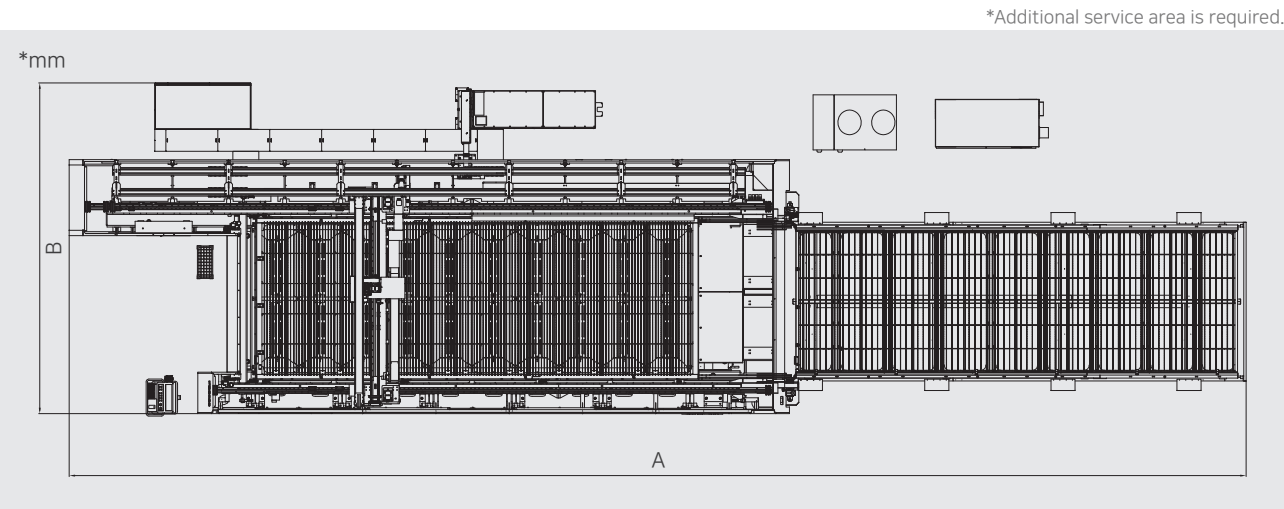
PS SERIES CO₂

Premium laser cutting machine **PS SERIES CO₂**.



FEATURES

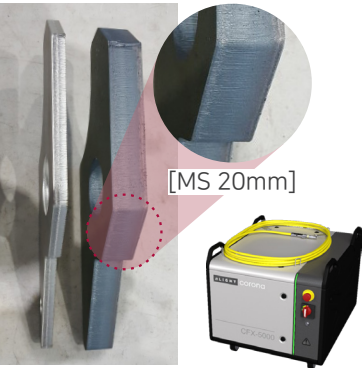
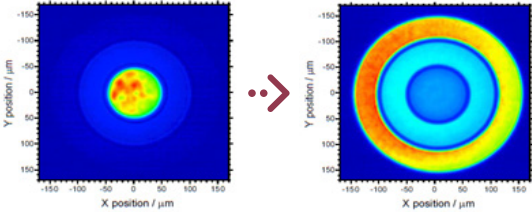
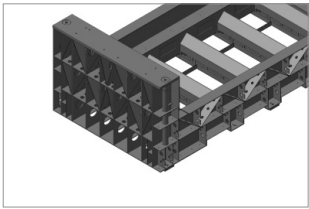
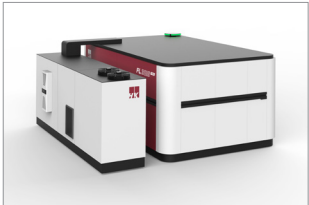
- Maximum work area of 8m x 2.5m
- Lens cartridge switching
- Optimal cutting quality by beam radius control function (BRC)
- Plasma monitoring system saving piercing time and preventing cutting failure
- Auto focus control (AFC)
- No need to move table for full pallet changing thus producing high productivity and quality
- Uniformed quality throughout whole work area by constant beam delivery system (CBDS)



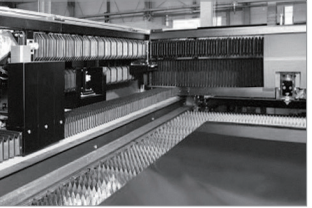
	PS4020	PS4025	PS6020	PS6025	PS8025
A mm	13,286	13,564	17,890	17,969	22,661.90
B mm	5,424	6,058	5,347	6,076	6,045.20

FUNCTIONS

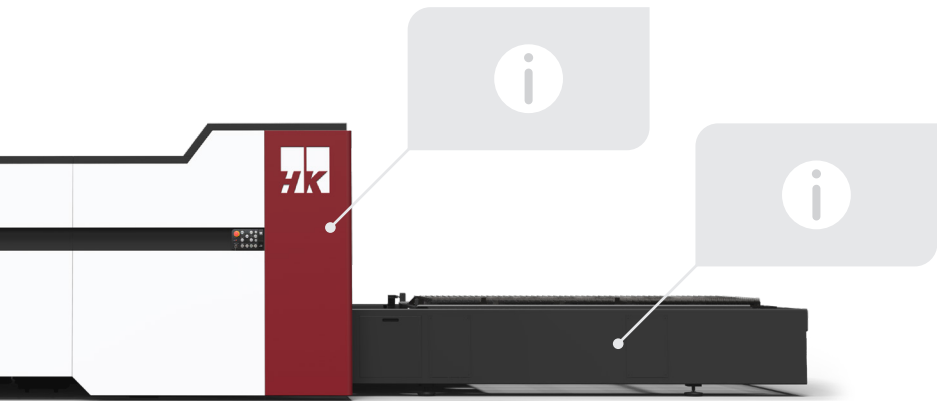
> FIBER

· Fiber cutting head Precitec / Highyag	- Measuring distance automatically. - Auto edge detecting function. - Automatic focal position adjustment. - Applying protect window to long life time. - Automatic focal diameter adjustment(Optional).
· Fiber resonator IPG / nLIGHT	- High energy efficiency & long life span. - Simple structure and composition. - Low maintenance cost (No external optics & laser gas). - Strong in high reflecting materials.
· Corona 4kW Fiber laser technology  [MS 20mm]  [Rapid tuning of laser spot size]	- Variation of Beam diameter & mode at laser. - Outstanding CO₂-like cutting surface & edge quality especially for thick mild steel. - Ideal for cutting thick mild steel up to 20mm - No need of external zoom head to change the spot diameter.
· Strong & Light main frame	- Honey comb style & Minimized frame displacement. 
· All in one cabinet	- Constant temperature & Humidity for laser. 

> CO₂

· AFC Auto Focus Control	Changing the location of focus depending on material and thickness in order to create constant cutting quality. 
· BRC Beam Radius Control	Controlling the radius of laser beam to get optimal cutting quality for various material and thickness. 
· CBDS Constant Beam Delivery System	Maintaining constant beam delivery to get constant cutting quality over the entire area. 
· U-Axis Pipe Cutting Device	Optionally mounted on FL type model for tube cutting. (Max. Ø 280mm in diameter) *Available for round pipe only. 
· CO₂ Resonator Panasonic	- High quality & stability. - Low electricity consumption(Echo mode). - Oil-less bearings of turbo blower. - Modular design for convenient repair and exchange.
· CAD / CAM SigmaTEK for PS/FL/FS models Lantek for TL model	- Professional software for laser cutting machine. - Abundant options(3D, duct etc.). - Automatic and manual nesting. - Wide post processing with integrated control system.

SPECIFICATIONS



> FIBER

	Max. Work Size mm (inch)	Power kW	Electric Consumption kW			U-Axis
			Resonator	Chiller	CNC	
FL3015	3,048 x 1,524 (120 X 60)	3.0	8.5	3.6	5	▲
		4.0	11.8	5.2		
		6.0	18.4	7.7		
		8.0	32	13		
		10.0	36	13		
PS3015	3,048 x 1,524 (120 X 60)	3.0	8.5	3.6	5	-
		4.0	11.8	5.2		
		6.0	18.4	7.7		
		8.0	32	13		
		10.0	36	13		
FS3015	3,048 x 1,524 (120 X 60)	2.5	8	2.5	5	-
		3.0	8.5	3.6		
PS4020	4,064 x 2,050 (160 x 80)	3.0	8.5	3.6	8	-
		4.0	11.8	5.2		
		6.0	18.4	7.7		
		8.0	32	13		
		10.0	36	13		
PS6025	6,096 x 2,540 (240 x 100)	3.0	8.5	3.6	8	-
		4.0	11.8	5.2		
		6.0	18.4	7.7		
		8.0	32	13		
		10.0	36	13		
PS8025	8,250 x 2,540 (325 x 100)	3.0	8.5	3.6	8	-
		4.0	11.8	5.2		
		6.0	18.4	7.7		
		8.0	32	13		
		10.0	36	13		

- : Not apply ▲ : Option



> CO₂

	Max. Work Size mm (inch)	Power kW	Electric Consumption kW			AFC	BRC	CBDS	PMU	LCS	U-Axis
			Resonator	Chiller	CNC						
FL3015	3,048 x 1,524 (120 x 60)	2.5	21.7	12	5	●	-	-	▲	▲	▲
		4.0	35.9	13		●	-	-	●	▲	▲
PS4020	4,064 x 2,032 (160 x 80)	2.5	21.7	12	8	●	●	●	●	●	-
		4.0	35.9	13		●	●	●	●	●	-
PS4025	4,064 x 2,540 (160 x 100)	2.5	21.7	12	8	●	●	●	●	●	-
		4.0	35.9	13		●	●	●	●	●	-
PS6020	6,096 x 2,032 (240 x 100)	2.5	21.7	12	8	●	●	●	●	●	-
		4.0	35.9	13		●	●	●	●	●	-
PS6025	6,096 x 2,540 (240 x 100)	2.5	21.7	12	8	●	●	●	●	●	-
		4.0	35.9	13		●	●	●	●	●	-
PS8025	8,250 x 2,540 (325 x 100)	2.5	21.7	12	8	●	●	●	●	●	-
		4.0	35.9	13		●	●	●	●	●	-

● : Apply - : Not apply ▲ : Option

> CUTTING CAPACITY

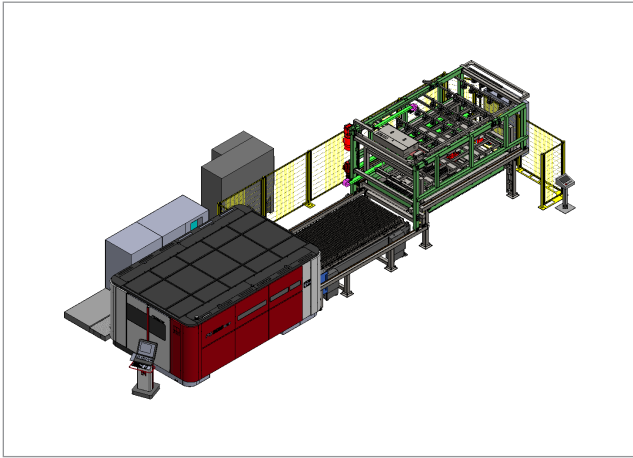
FIBER Laser		2.5kW	3.0kW	4.0kW	6.0kW	8.0kW	10.0kW
Material mm	MS	16	16	20	20	30	30
	SUS	8	10	12	20	25	30
	AL	8	10	12	15	25	30
	Cu	4	6	6	8	10	10
	Brass	6	8	10	12	12	15
CO ₂ Laser		2.5kW		4.0kW		6.0kW	
Material mm	MS	18		20		22	
	SUS	8		12		15	
	AL	8		10		12	

*Cutting result may be different to material condition, environment of machine etc.

AUTOMATION

> SMART CELL

Automatic loading / Unloading system

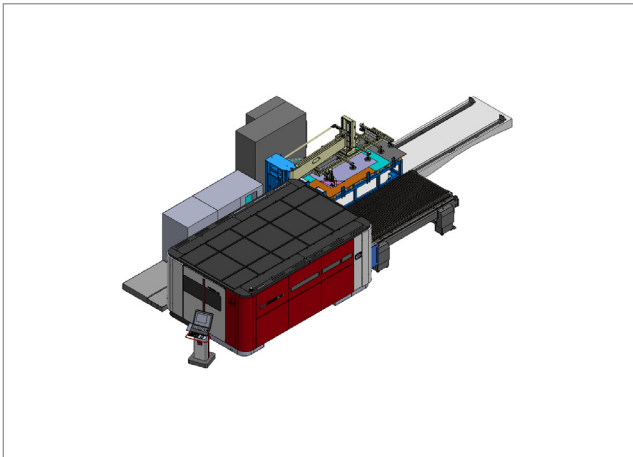


Equipment size	8,300 x 2,500 x 2,500 mm (Excluding service space)
Max. material size	3,048 x 1,524 x 25 mm (T)
Max. materials transmission weight	913 kg
Max. stack height	300 mm (With pallet height)
Max. load weight	3,000 kg
One round time	48 sec

*Applicable model 3015, 4020

> SMART LOADER

Automatic loading system

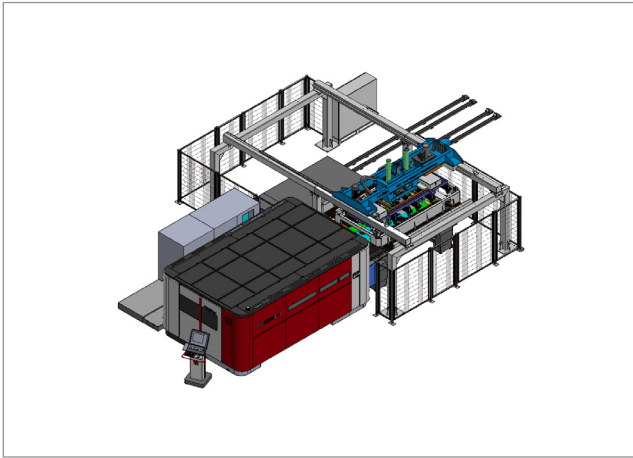


Equipment size	4,400 x 1,770 x 2,500 mm (Excluding service space)
Max. material size	3,048 x 1,524 mm
Max. material thickness	20 mm
Max. load weight	730 kg

*Applicable model 3015, 4020

> SMART LIFTER

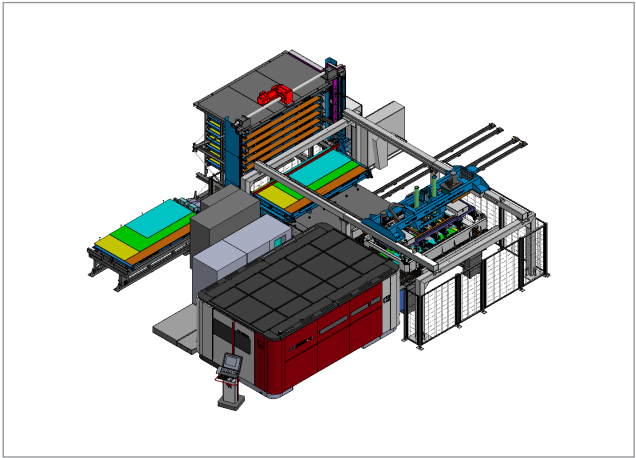
Automatic loading / Unloading system



*Applicable model 3015, 4020

> SMART TOWER

Material screening and loading system



*Applicable model 3015, 4020

> SMART RACK

