



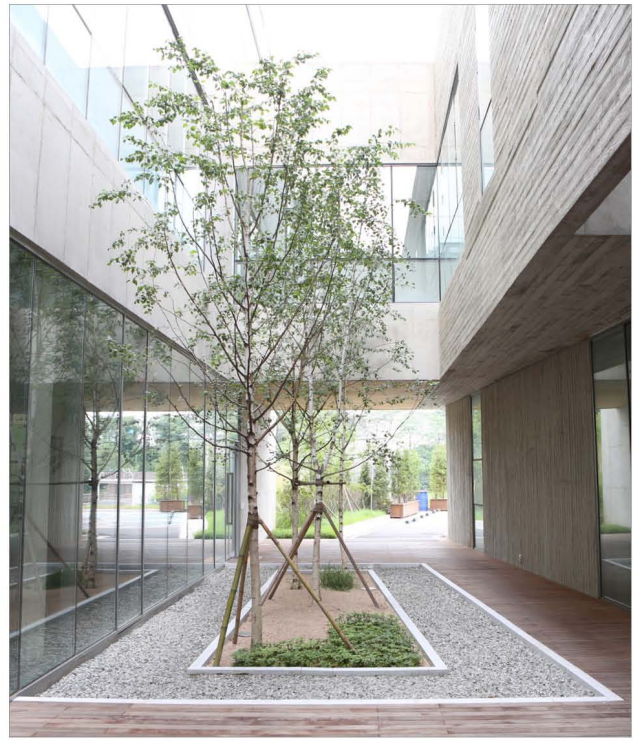
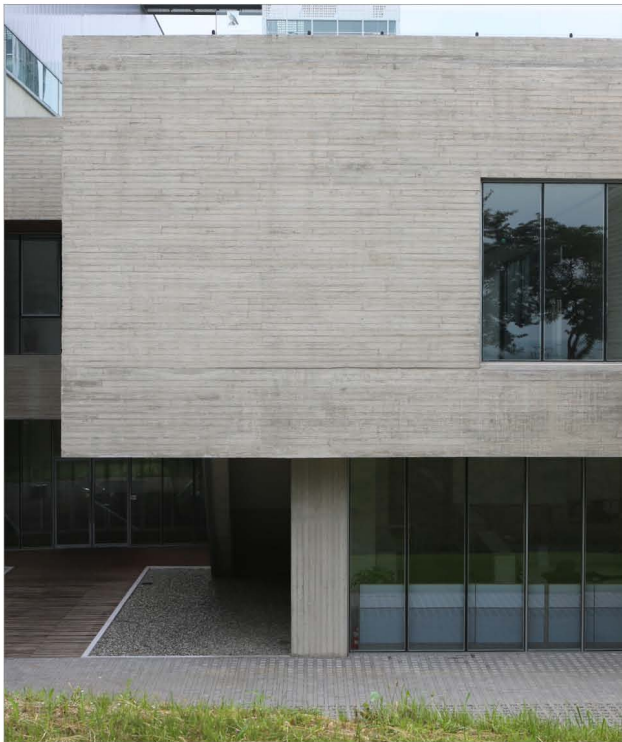
PINNACLE OF LASER CUTTING TECHNOLOGY



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Company Introduction



Introduction

HK LASER & SYSTEMS is one of the world`s leading manufacturers in the field of high power laser cutting machine. Since the establishment in 1990, HK LASER & SYSTEMS Has installed more than 2,000 laser systems in the world.

Headquartered in South Korea, we have set up branches in the USA, China, Turkey and Taiwan. Also we have built up a global network of 30 dealers in order to get closer to customers.

HK LASER & SYSTEMS is the company that creates value of the success and shares the value with all our customers. Based on the continuous investment in R&D, we have developed the cutting-edge technologies and products.

Vision

Sharing mutual happiness with all customers

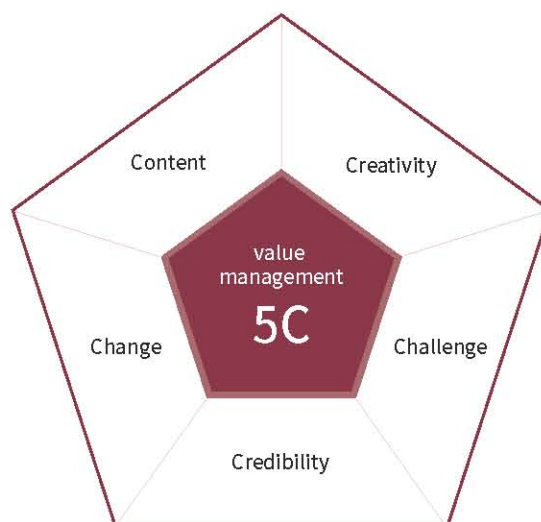
Mission

Creating the value for customer satisfaction

Strategy

Flexibility through multi-functionalizing
Reproduction of information & technology
Strict management for objective

Value management



Global Network





HK Head Office

South Korea

HK USA

Chicago

Charlotte

HK CHINA

Shanghai

HK TURKEY

Istanbul

HK TAIWAN

Taipei

Asia-Pacific

Thailand

Malaysia

Singapore

Vietnam

Indonesia

India

Uzbekistan

Australia

Middle East & Africa

Israel

Egypt

Saudi Arabia

UAE

Europe

England

Poland

Russia

Ukraine

Finland

Belarus

America

Mexico

Canada

Brazil

Argentina

Chile

System Line up

CO₂ Laser

FS3015



FL3015



PS series



Fiber Laser

FS3015 Fiber



Xcaliber Fiber



PS Series Fiber

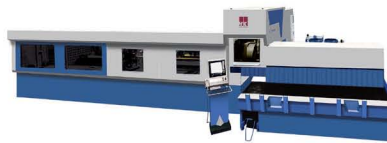


Tube Laser

TL6015



TL7525 Fiber



Automation

Smart Cell I



Smart Cell II



Smart LU



Smart AC



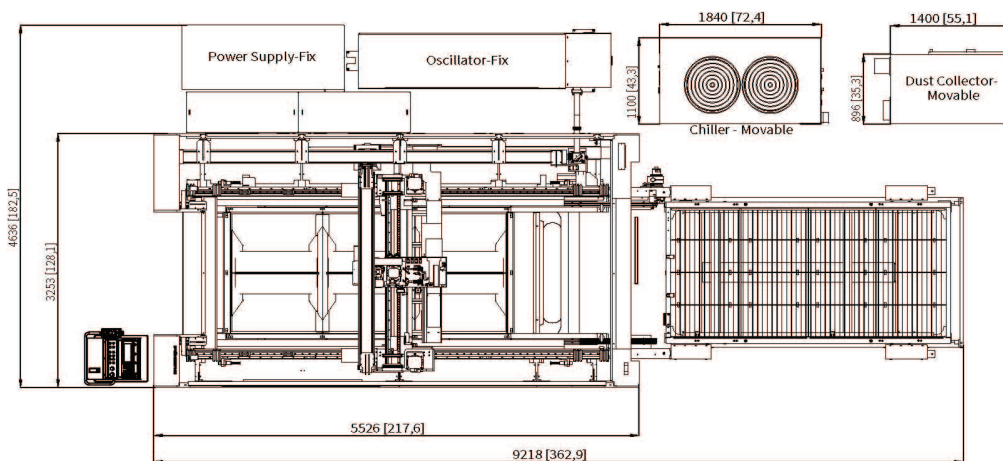
Smart CL



CO₂ Laser

FS3015

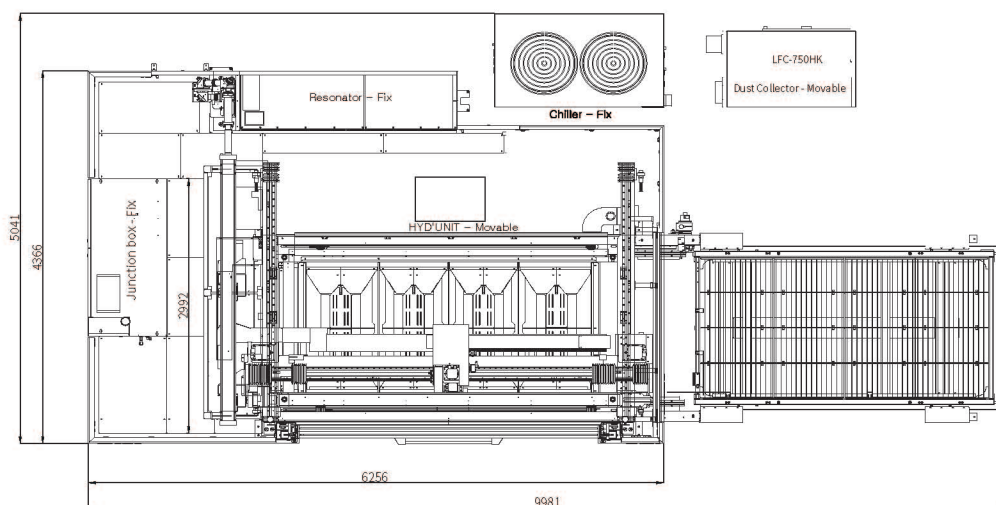
- Flying Optic Standard Type
- Synchronized dual servo motor gantry
- Convenient lens cartridge switching (5" & 7.5" lens)
- Alert system for consumables exchange cycle
- AFC (auto focus control)
- Zone & ducting exhaust system



CO₂ Laser

FL3015

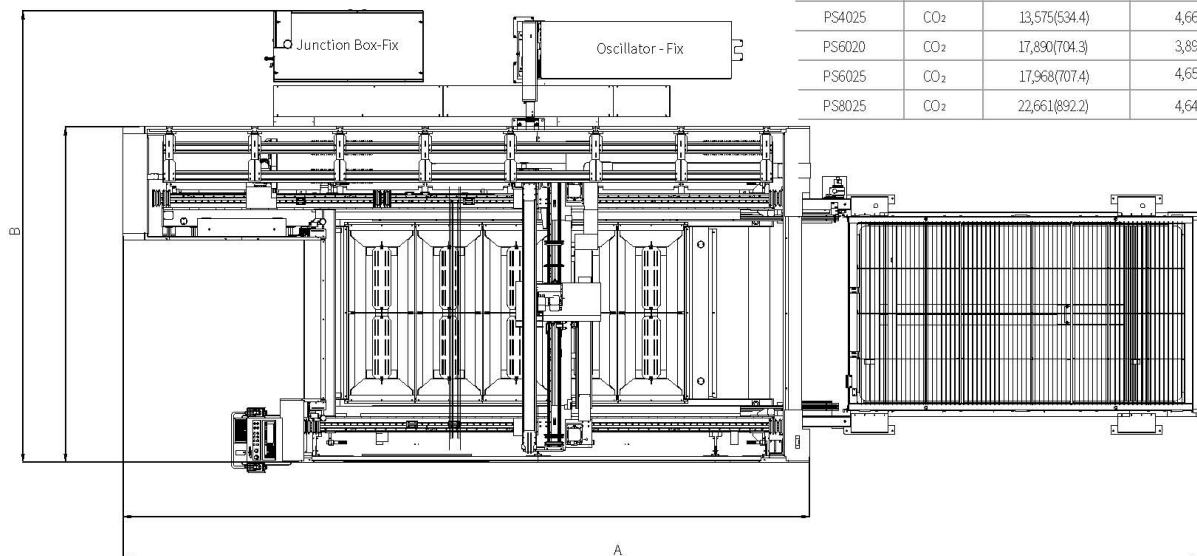
- Wide open door for easy access
- Increase of productivity & convenient
- Possible to cut material with film
- AFC (auto focus control)
- Zone & ducting exhaust system
- Optional U-axis for tube cutting
- Repeat cutting function based on part and contour
- Convenient lens cartridge switching (5" & 7.5" lens)
- Alert system for consumables exchange cycle



CO₂ Laser

PS Series

- Full table change
- Auto nozzle cleaning
- AFC (auto focus control)
- CBDS (constant beam delivery system)
- PMU (plasma monitoring unit)
- LCS (lens crack sensor)
- Maximizing operation efficiency & precision
- Increase of productivity & convenient
- Convenient lens cartridge switching (5" & 7.5" lens)
- Alert system for consumables exchange cycle
- Zone & ducting exhaust system

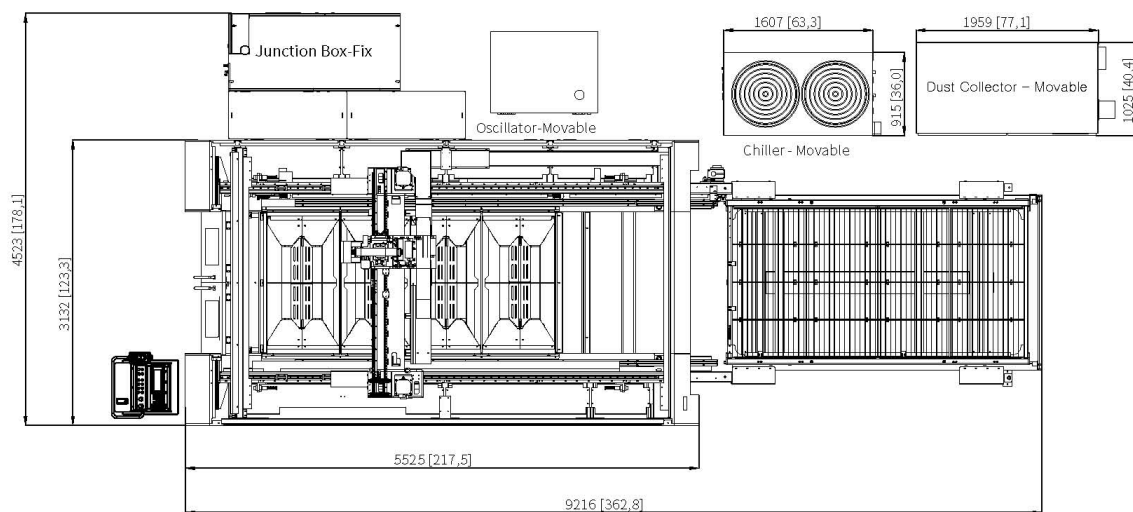
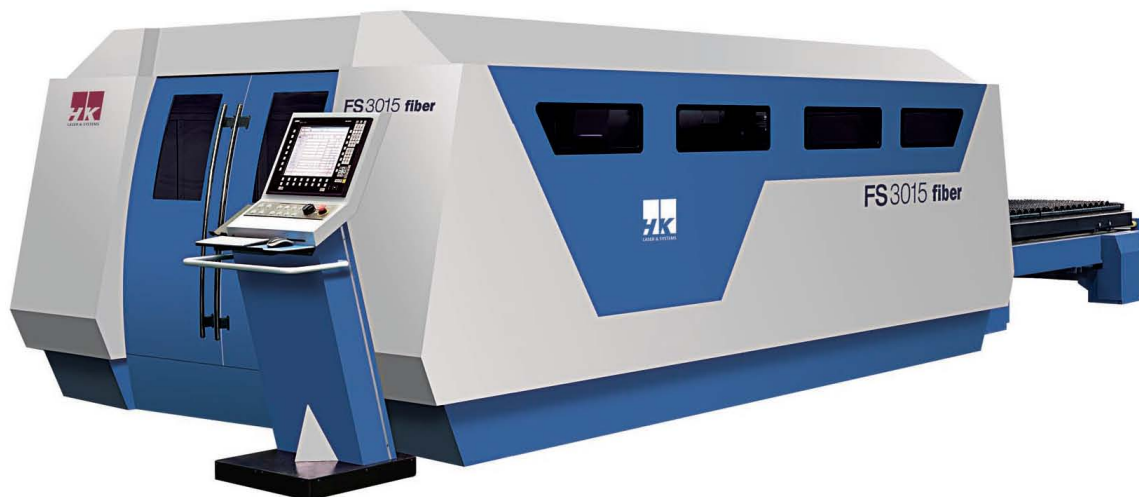


		A mm(inch)	B mm(inch)
PS4020	CO ₂	13,286(523.1)	4,026(158.5)
PS4025	CO ₂	13,575(534.4)	4,664(183.6)
PS6020	CO ₂	17,890(704.3)	3,898(153.5)
PS6025	CO ₂	17,968(707.4)	4,652(183.1)
PS8025	CO ₂	22,661(892.2)	4,642(182.8)

Fiber Laser

FS3015 Fiber

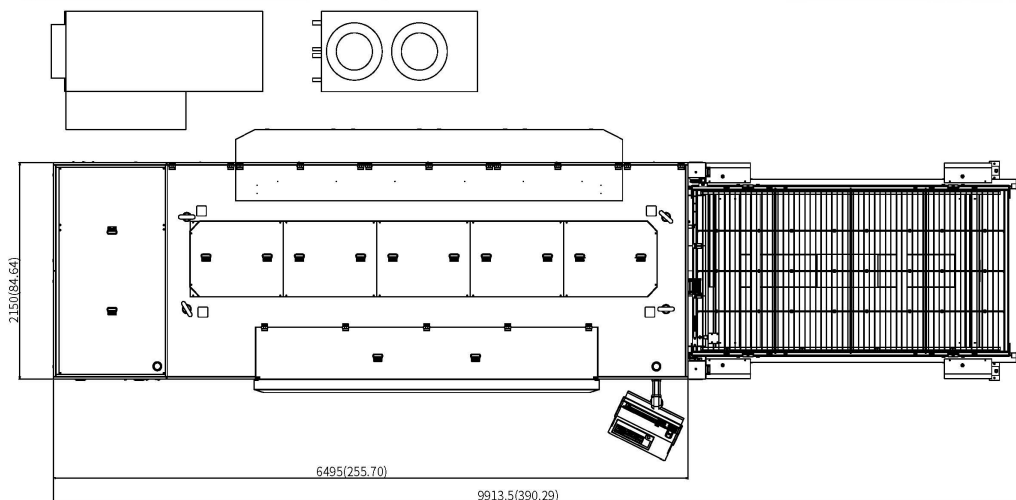
- Synchronized dual servo motor gantry
- Maximizing operation efficiency & precision
- Easy operating & High productivity & energy efficiency
- Low maintenance & repair cost
- Modular optical fiber laser source
- No external optics



Fiber Laser

Xcaliber

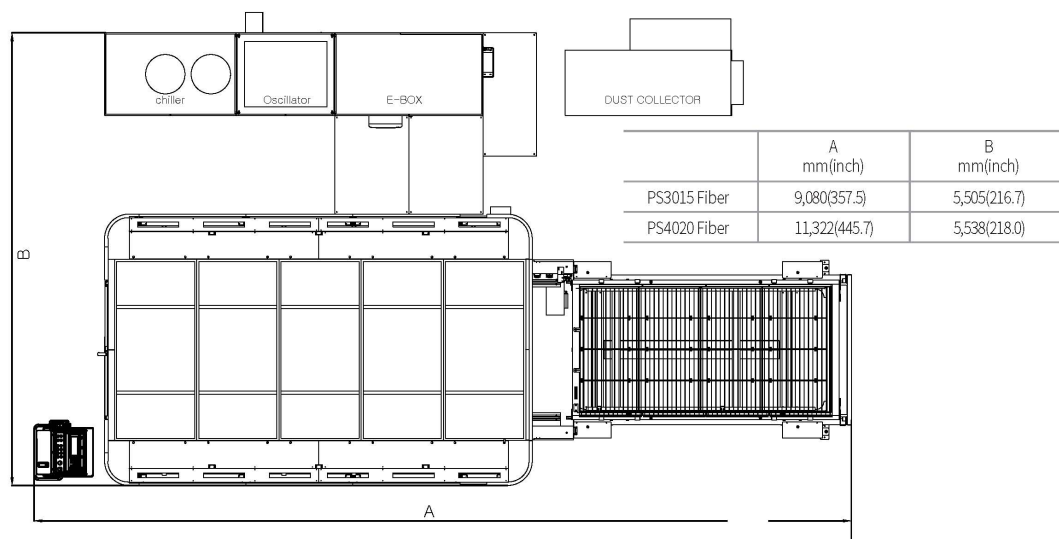
- Compact design & small footprint
- Wide open door for easy access
- Ultralight cutting bridge
- High productivity & energy efficiency
- Modular optical fiber laser source
- No external optics



Fiber Laser

PS Series Fiber

- Maximizing Cutting stability by strength increasing main frame
- All in one accessories (chiller/resonator/e-box, constant temperature & humidity)
- Minimizing deformation by structure improvement of the cutting bridge
- Easy operating & High productivity & energy efficiency
- Low maintenance & repair cost
- Modular optical fiber laser source
- No external optics



	A mm(inch)	B mm(inch)
PS3015 Fiber	9,080(357.5)	5,505(216.7)
PS4020 Fiber	11,322(445.7)	5,538(218.0)

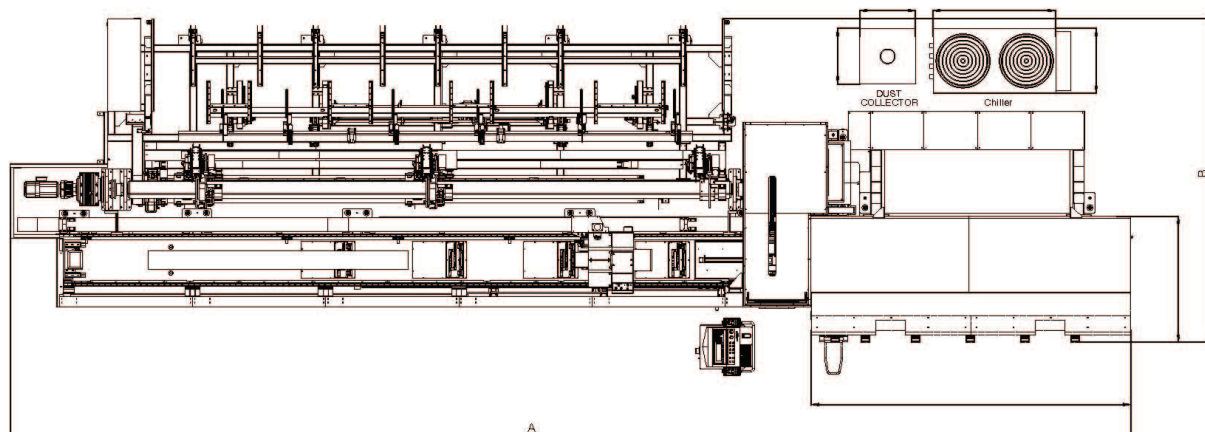
Tube Laser

TL Series

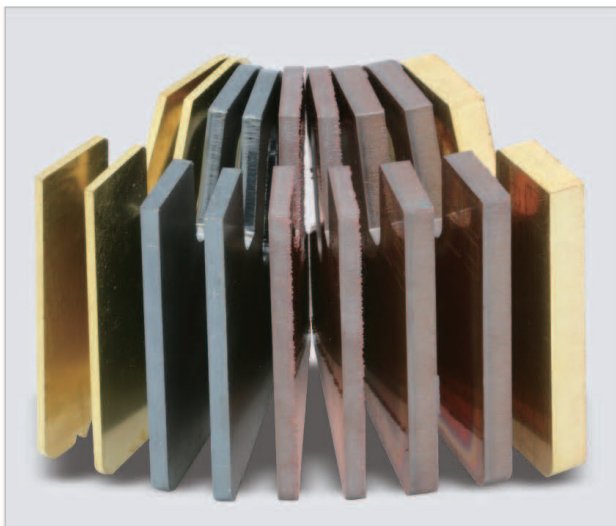
- ATBL(automatic tube bundle loader)
- ATLS(automatic tube loading system)
- ATUS(automatic tube unloading system)
- ALMS(automatic length measurement system)
- Maximum 7,500mm automatic loading
- Sim tracking unit (option)
- Easy operating & High productivity
- Applicable to CO₂ laser & fiber laser



	A mm(inch)	B mm(inch)
TL6015 CO ₂	13,636(536.9)	5,184(204.1)
TL6015 Fiber	13,054(511.7)	5,074(199.8)
TL7525 Fiber	15,093(594.2)	4,359(171.6)



Sample



Functions

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



LCS Lens Crack Sensor

Detecting the damage of lens to minimize losses and internal contamination



U-Axis Pipe Cutting Device

Optionally mounted on L type model for tube cutting (max. Ø 280mm in diameter)





CO₂ Cutting Head

Measuring distance automatically
Auto edge detecting function
Outstanding cutting speed and quality by FM sensing mode
Convenient lens cartridge exchange
Decreasing lens change rate by applying LCS

Fiber Cutting Head

Measuring distance automatically
Auto edge detecting function
Motorized focal position adjustment(option)
Applying protect window to reduce lens usage

CAD / CAM

Professional software for laser cutting machine
Abundant options(3D, duct etc.)
Automatic and manual nesting
Wide post processing with integrated control system

CO₂ Resonator

High quality & stability
Low electricity consumption(echo mode)
Oil-less bearings of turbo blower
Modular design for convenient repair and exchange

Fiber Resonator

High energy efficiency & long life span
Simple structure and composition
Low maintenance cost (no external optics & laser gas)
Strong in high reflecting materials

HK Laser Cutting Machine

CO₂ Laser

	Max. work size mm (inch)	Resonator (kW)	AFC	BRC	CBDS	U-axis	PMU	LCS
FS3015	3,048 x 1,524 (120 x 60)	2.5	●	-	-	-	▲	▲
		4.0	●	-	-	-	●	▲
FL3015	3,048 x 1,524 (120 x 60)	2.5	●	-	-	▲	▲	▲
		4.0	●	-	-	▲	●	▲
PS4020	4,064 x 2,050 (160 x 80)	2.5	●	●	●	-	●	●
		4.0	●	●	●	-	●	●
		6.0	●	●	●	-	●	●
PS4025	4,064 x 2,050 (160 x 80)	2.5	●	●	●	-	●	●
		4.0	●	●	●	-	●	●
		6.0	●	●	●	-	●	●
PS6020	6,096 x 2,050 (240 x 80)	2.5	●	●	●	-	●	●
		4.0	●	●	●	-	●	●
		6.0	●	●	●	-	●	●
PS6025	6,096 x 2,050 (240 x 80)	2.5	●	●	●	-	●	●
		4.0	●	●	●	-	●	●
		6.0	●	●	●	-	●	●
PS8025	8,250 x 2,540 (324 x 100)	2.5	●	●	●	-	●	●
		4.0	●	●	●	-	●	●
		6.0	●	●	●	-	●	●

● : Apply - : Not apply ▲ : Option

Fiber Laser

	Max. work size mm (inch)	Cutting speed mm/min (inch/min)	Resonator (kW)
FS3015 Fiber	3,048 x 1,524 (120 x 60)	34,000 (1,338.58)	2.0
Xcaliber Fiber	3,048 x 1,524 (120 x 60)	48,000 (1,889.76)	3.0
			4.0
			6.0
PS Series Fiber	3,048 x 1,524 (120 x 60)	48,000 (1,889.76)	3.0
	4,064 x 2,050 (160 x 80)		4.0
	6,096 x 2,050 (240 x 80)		6.0

*The specification is subject to change without prior notice.

Cutting Capacity

Power		2.5kW	4.0kW	6.0kW
CO ₂ mm (inch)	MS	20 (0.79)	20 (0.79)	25 (0.98)
	SUS	8 (0.31)	12 (0.47)	15 (0.59)
	AL	8 (0.31)	10 (0.39)	15 (0.59)

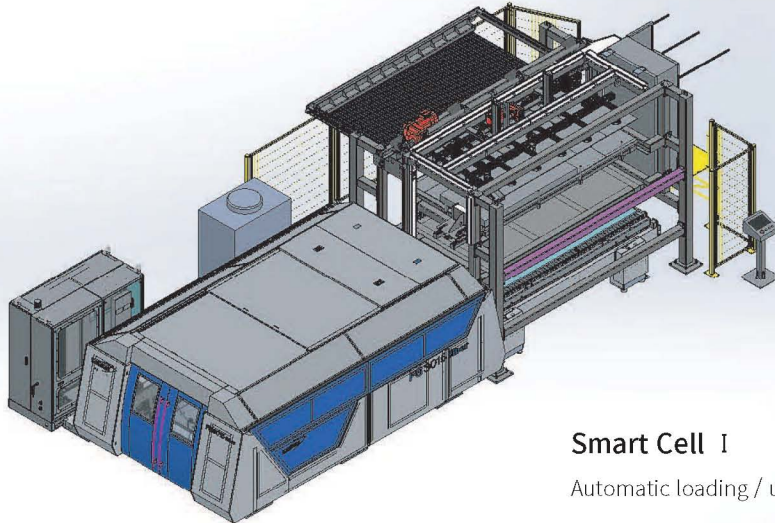
Power		2.0kW	3.0kW	4.0kW	6.0kW
Fiber mm (inch)	MS	12 (0.47)	16 (0.63)	20 (0.79)	20 (0.79)
	SUS	8 (0.3)	10 (0.39)	12 (0.47)	15 (0.59)
	AL	8 (0.3)	10 (0.39)	12 (0.47)	15 (0.59)
	Cu	4 (0.16)	6 (0.24)	6 (0.24)	8 (0.3)
	Brass	6 (0.24)	10 (0.39)	10 (0.39)	12 (0.47)

Tube Laser

Model	Max work size mm (inch)	Max.crosssection mm (inch)			Resonator (kW)	Cutting capacity mm (inch)				
		Round	Square	Rectangle		MS	SUS	AL	Cu	Brass
TL6015 CO ₂	6,000 (236.22)	Ø 165 (Ø 6.50)	120x120 (4.72x4.72)	Diagonal 165 (6.50)	2.5	6.4 (0.25)	5 (0.20)	4 (0.16)		
TL6015 Fiber	6,000 (236.22)	Ø 165 (Ø 6.50)	120x120 (4.72x4.72)	Diagonal 165 (6.50)	2.0	6.4 (0.25)	5 (0.20)	4 (0.16)	3 (0.12)	5 (0.20)
					3.0	10 (0.39)	6 (0.24)	8 (0.31)	5 (0.20)	5 (0.20)
TL7525 Fiber	7500 (295.28)	Ø 250 (Ø 9.84)	175x175 (6.89x6.89)	Diagonal 245 (9.65)	2.0	6.4 (0.25)	5 (0.20)	4 (0.16)	3 (0.12)	5 (0.20)
					3.0	10 (0.39)	6 (0.24)	8 (0.31)	5 (0.20)	5 (0.20)

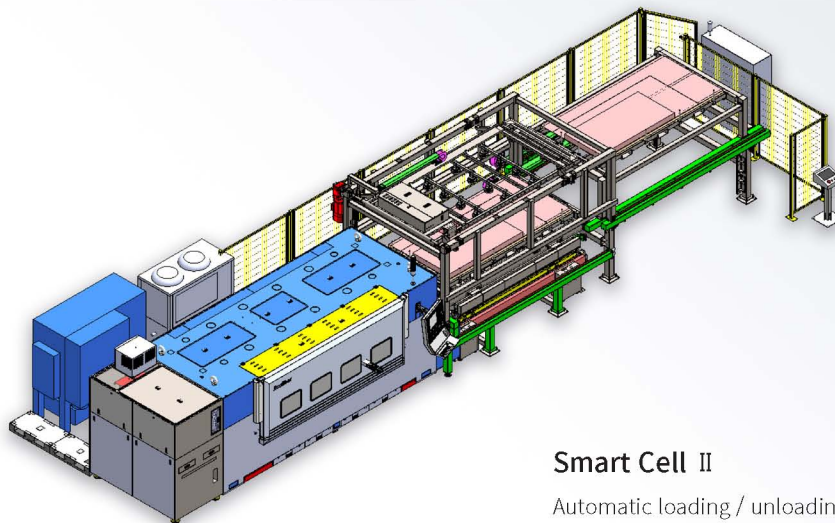
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Automation



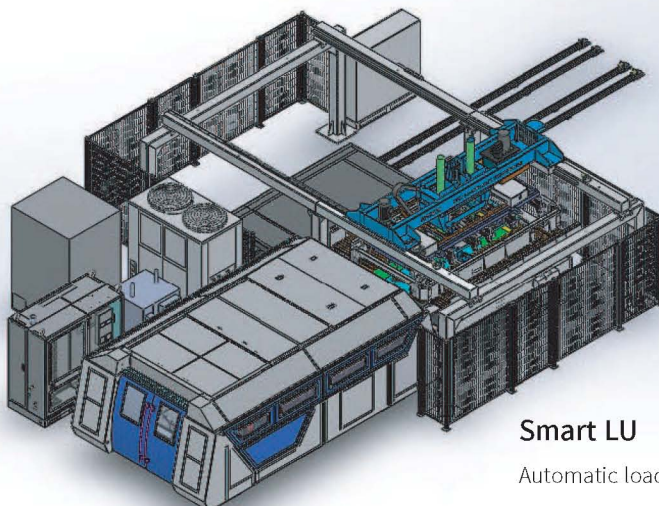
Smart Cell I

Automatic loading / unloading system



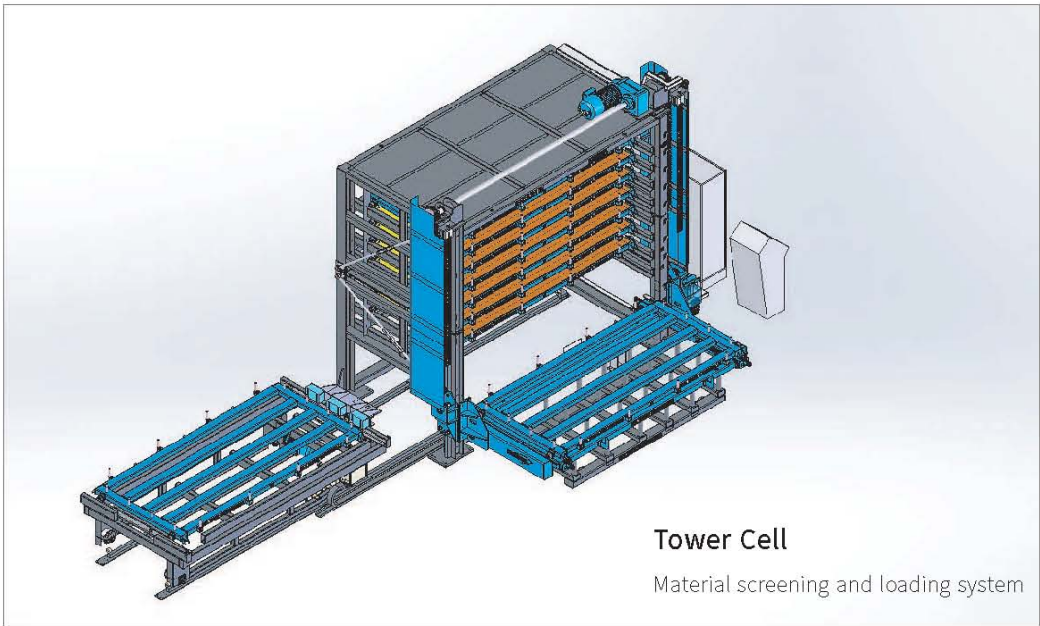
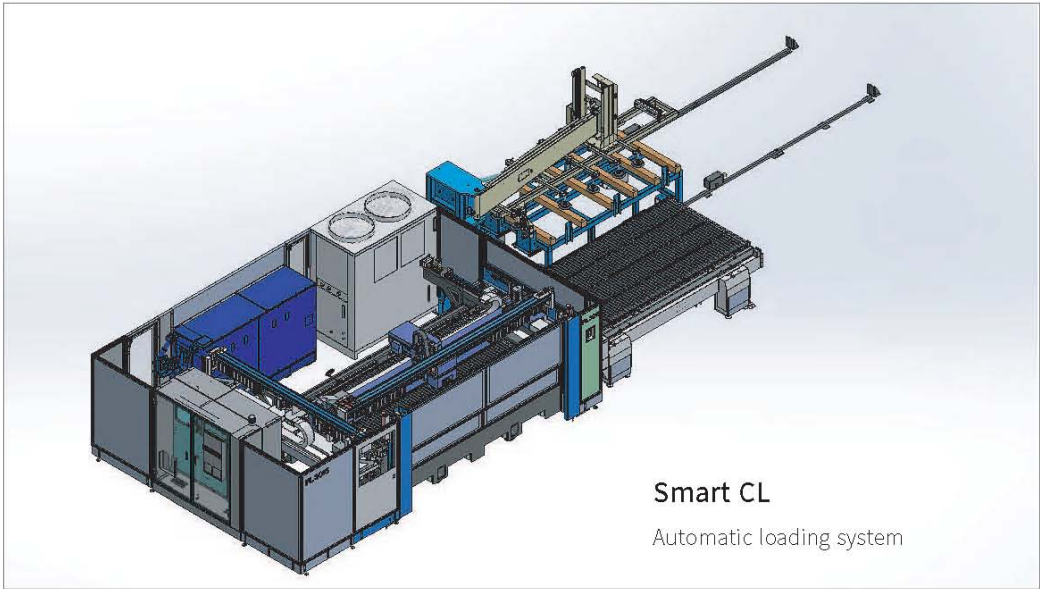
Smart Cell II

Automatic loading / unloading system



Smart LU

Automatic loading / unloading system



	2512	3015	4020	4025	6020	6025	8025
Smart Cell I	●	●					
Smart Cell II	●	●					
Smart LU	●	●					
Smart CL	●	●	●				
Tower Cell*	●	●	●				

*Tower cell must be used with Smart LU



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