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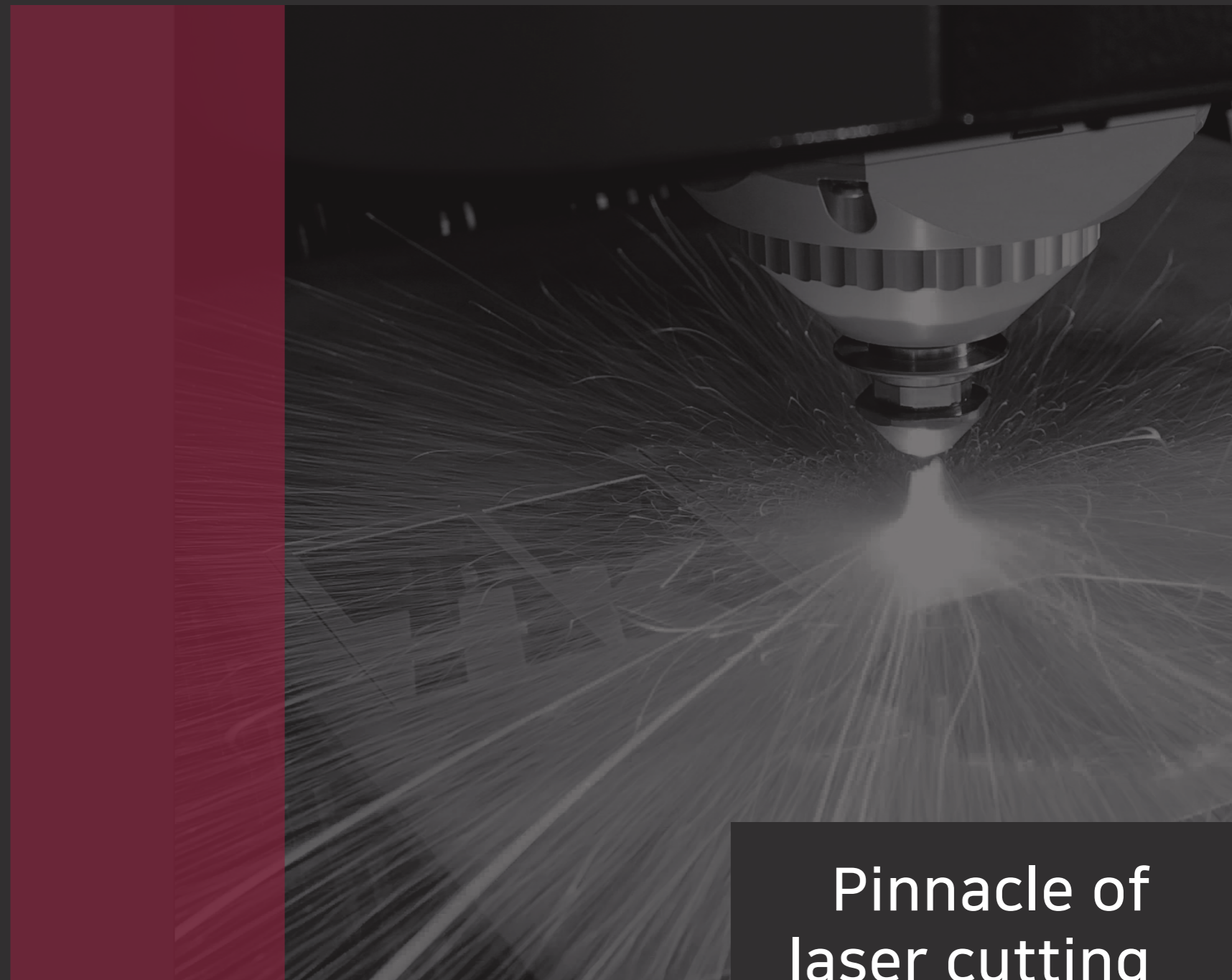
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Pinnacle of laser cutting technology



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.

We provide total solution for sheet metal working such as bending, welding, deburring and automation system.

> FIBER



> AUTOMATION



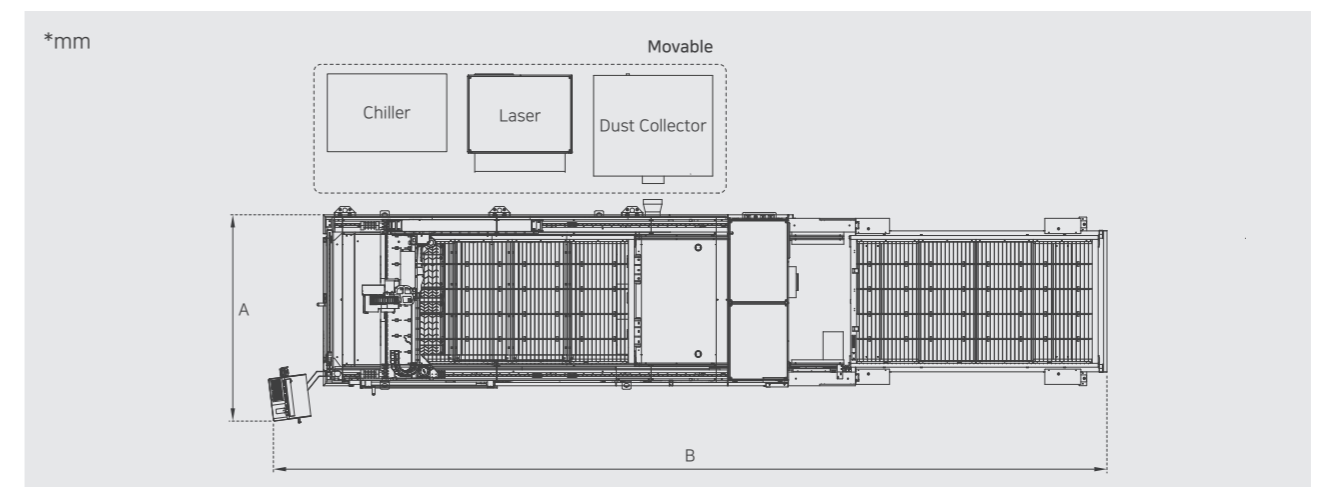
RS3015 FIBER

RS3015 FIBER Integration of state of the art Laser Technology



> FEATURES

- High dynamic motion control(2.5G)
- Easy access to table by front full open door and side door
- Compact design with minimal floor space
- Significantly damped vibration by high-stiffness main frame
- Built-in designed LASER source in air conditioning cabinet
- High productivity & quality, ultra precision

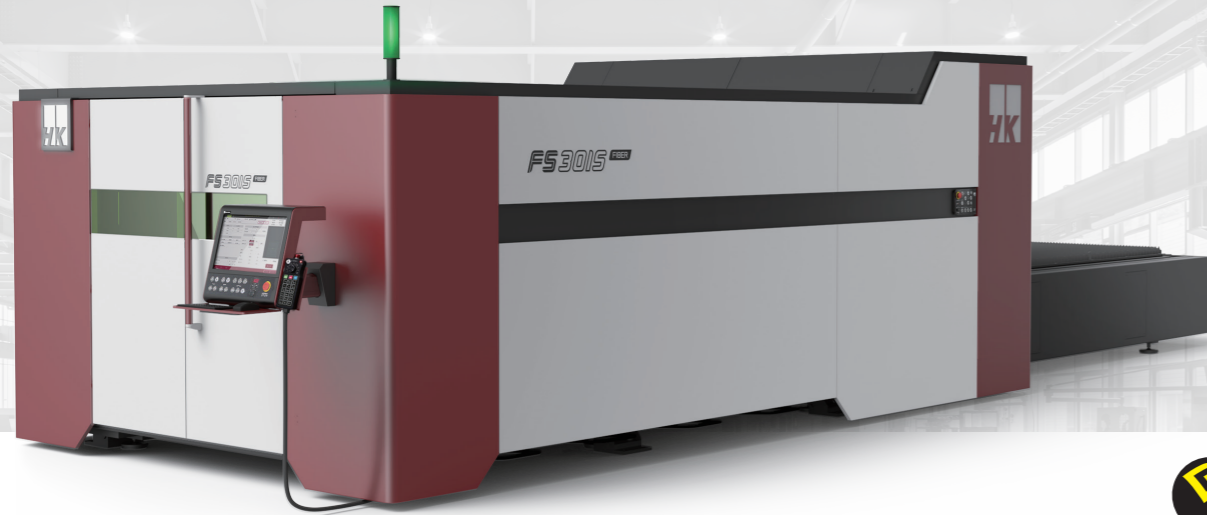


*Additional service area is required

	RS3015
A mm	2,270
B mm	11,250

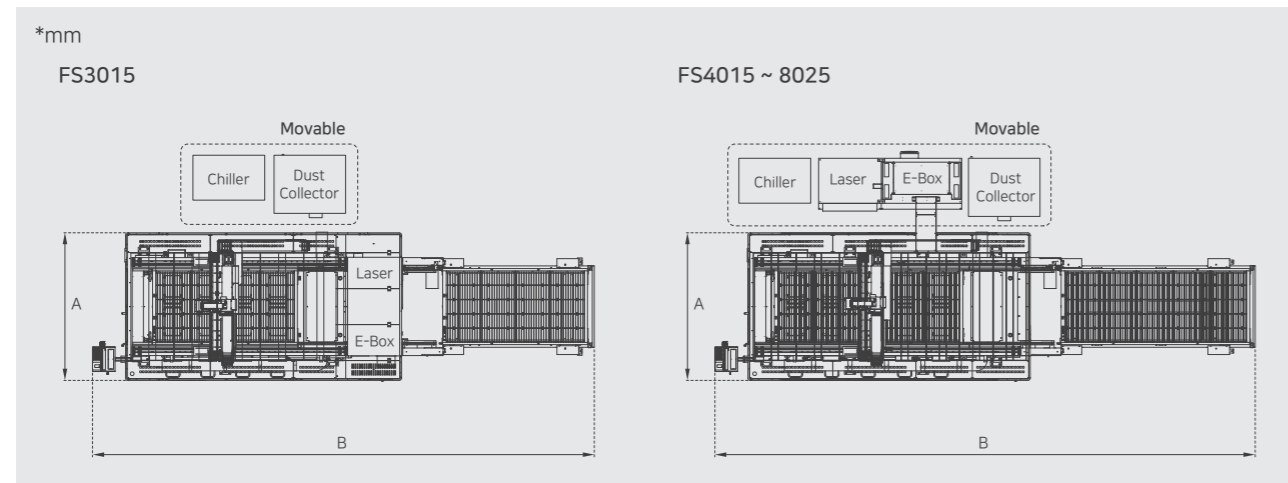
FS SERIES FIBER

FS SERIES Standard design with high performance



> FEATURES

- Dynamic motion control (2.0G)
- Multiple work table format (Max. 8m x 2.5m)
- Built-in designed LASER source in air conditioning cabinet
- High stiffness main frame and cutting bridge
- High quality & performance CNC, LASER source & Cutting head
- Digitalization monitoring system based on Industry 4.0



*Additional service area is required

	FS3015	FS4015	FS4020	FS6025	FS8025
A mm	3,300	3,300	3,950	4,480	4,480
B mm	11,020	12,080	12,360	16,360	22,090

*E-box is located outside of the machine

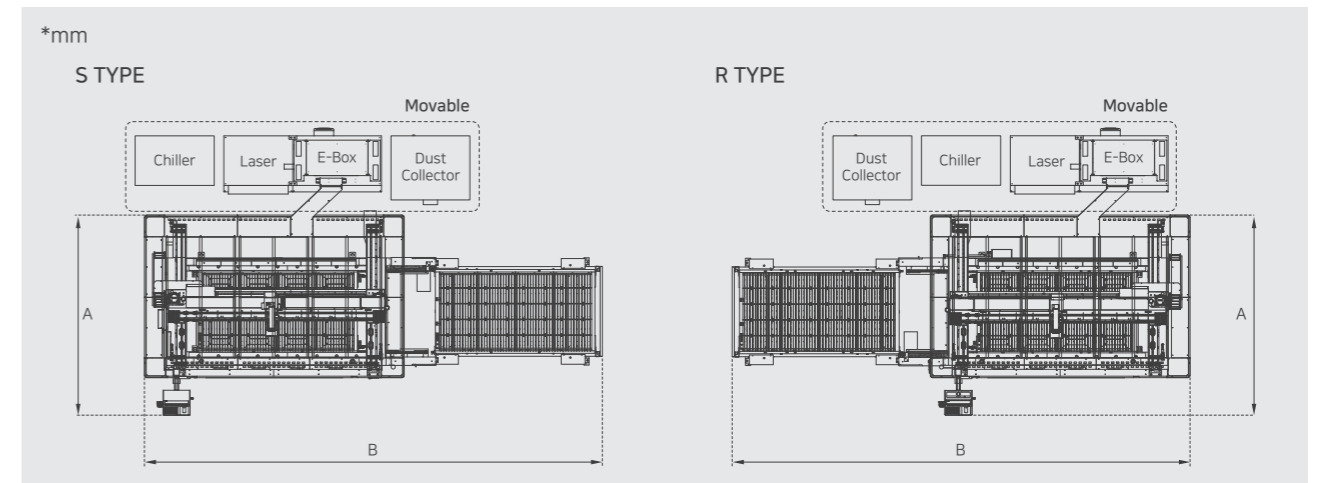
FL3015 FIBER

FL3015 Side door open type, premium & optimized for job shop



> FEATURES

- High stiffness main frame and cutting bridge
- Optimized for cutting various kinds of materials
- High precision & quality
- Round tube cutting module(Optional)
- Easy access to table by automatic wide open door
- Flexible layout to fit your factory
- Built-in designed LASER Source in air conditioning cabinet

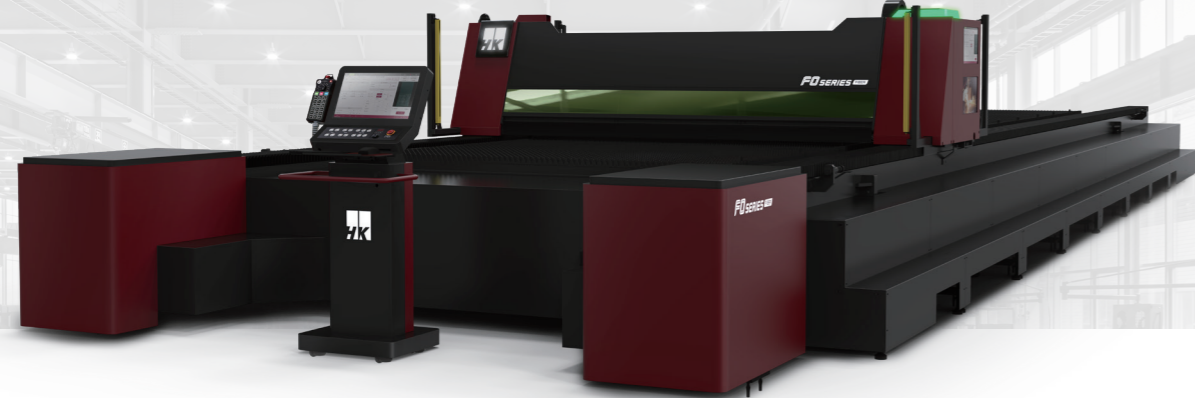


*Additional service area is required

	S TYPE	R TYPE
A mm	4,060	4,060
B mm	9,290	9,290

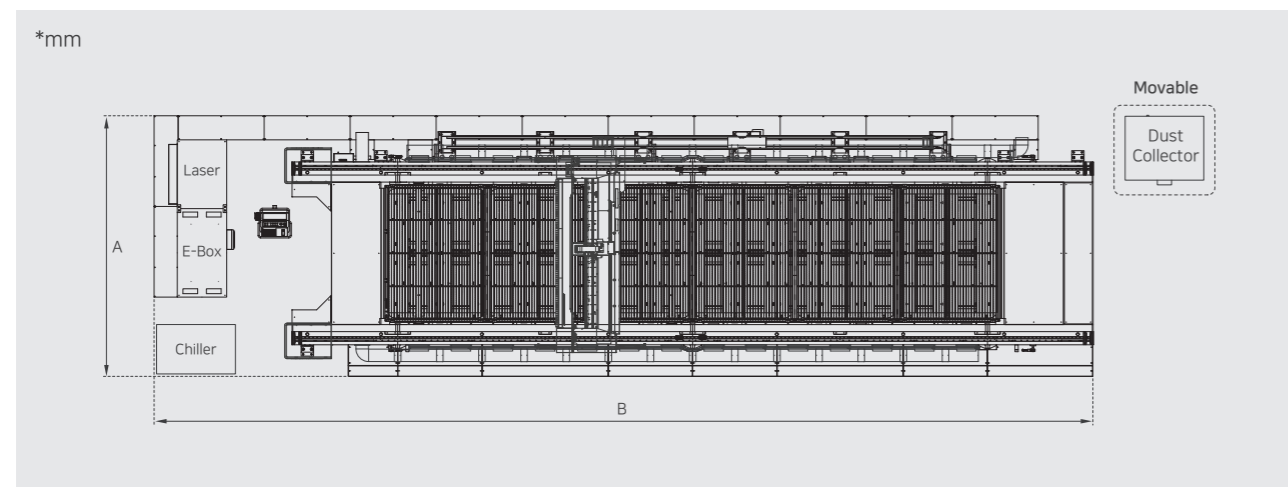
FO SERIES FIBER

FO SERIES Large Format Gantry-type Laser Cutting Machine



> FEATURES

- Optimized for cutting large product for Ship Building, Steel Mill and Construction industries
- Alternative to Plasma and Gas Cutter for high precision & ultra speed processing
- Modular designed High-stiffness main frame and ultralight cutting bridge
- Dual touch panels, with 4-channel cameras & monitors for process viewing
- Easy accessibility & operation based on operator-focused design and structure
- Available to arrange multiple sheets with multi-origin function
- LASER source in air conditioning cabinet
- Multi chamber fume extraction system

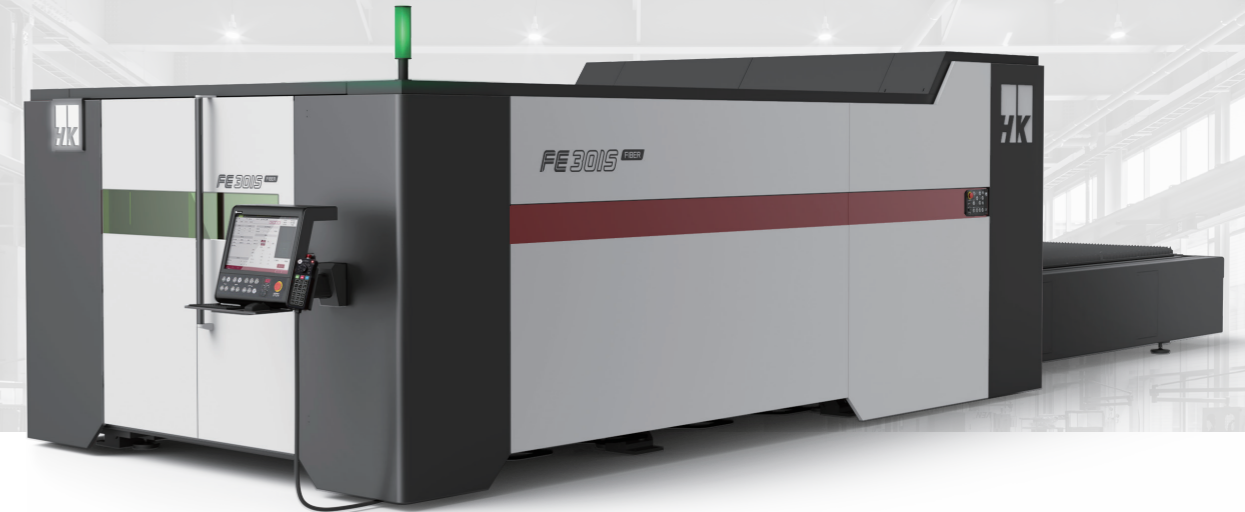


*Additional service area is required

	FO12025	FO20025	FO30025	FO12030	FO20030	FO30030
A mm	5,800	5,800	5,800	6,600	6,600	6,600
B mm	21,000	31,000	42,600	21,000	31,000	42,600

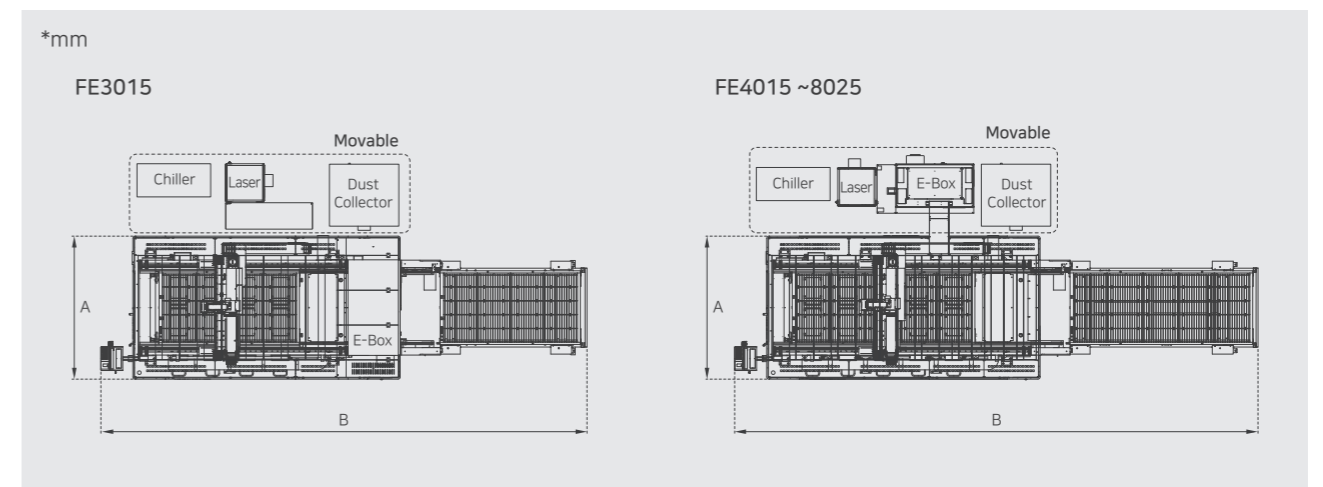
FE SERIES FIBER

FE SERIES Standard design with ultimate valuable



> FEATURES

- Dynamic motion control (2.0G)
- High stiffness main frame and cutting bridge
- Multiple work table format (Max. 8m x 2.5m)
- Folding door and stair structure for easy accessibility
- Operation cost saving by optimized cutting parameter
- Optimized strategic model with cost-effectiveness / functionality / practicality



*Additional service area is required

	FE3015	FE4015	FE4020	FE6025	FE8025
A mm	3,300	3,300	3,950	4,480	4,480
B mm	11,020	12,080	12,360	16,360	22,090

*E-box is located outside of the machine

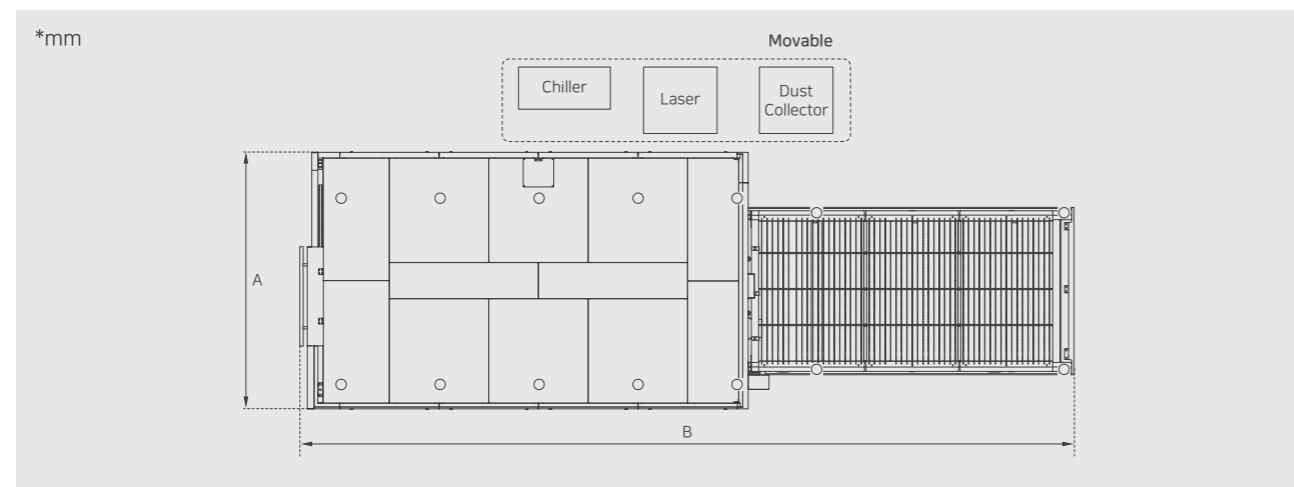
HD SERIES FIBER

HD SERIES Super-economical model with cost-effectiveness



> FEATURES

- High stiffness main frame and durable cutting bridge
- Full protection cover with CE based safety light barrier system
- Cutting area automatic recognition dust collection system
- Standard offline CAD/CAM software by LANTEK
- High performance & user-friendly controller FSCUT 8000
- Dual height table with simultaneous exchange system
- Precision proportional valve for high pressure cutting



*Additional service area is required

	HD3015	HD4020	HD6025
A mm	2,850	3,450	4,085
B mm	8,604	11,000	15,150

AUTOMATION

> SMART LOADER (Swing Arm type)

Automatic loading



Available table format	3015, 4015, 4020
Max. material size	3,048 x 1,524, 4,064 x 1,524, 4,064 x 2,050
Max. material transmission weight	730 kg

Data based on 3015 size machine

> SMART LOADER (Trans type)

Automatic loading



Available table format	3015, 4015, 4020
Max. material size	3,048 x 1,524, 4,064 x 1,524, 4,064 x 2,050
Max. material transmission weight	450 kg

Data based on 3015 size machine

> SMART CELL

Automatic loading / unloading



Available table format	3015, 4015, 4020
Max. material size	3,048 x 1,524, 4,064 x 1,524, 4,064 x 2,050
Max. materials transmission weight	913 kg
Max. loadable height per shelf	250 mm
Max. loadable weight per shelf	3,000 kg
Number of shelves	1(standard) / 2(Option)

Data based on 3015 size machine

> SMART TOWER

Automatic loading / unloading / storage cell



Available table format	3015, 4015, 4020
Max. material size	3,048 x 1,524, 4,064 x 1,524, 4,064 x 2,050
Number of shelves	8
Max. materials transmission weight	730 kg
Max. loadable height per shelf	200 mm
Max. loadable weight per shelf	2,700 kg

Data based on 3015 size machine

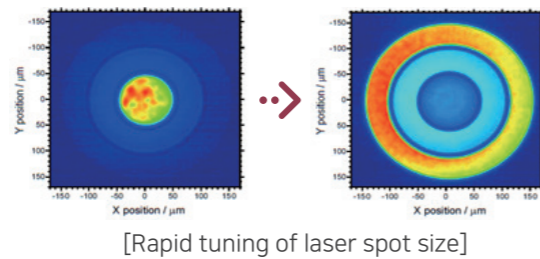
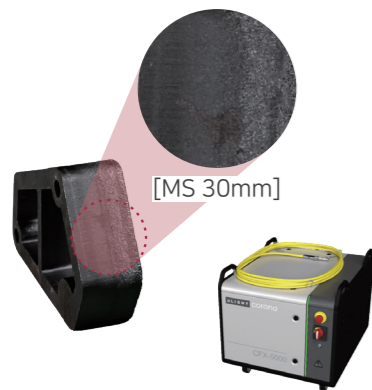
FEATURES

> FIBER

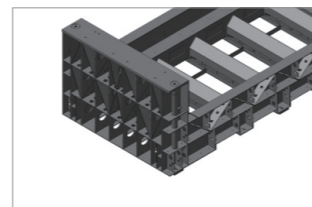
- **Advanced FIBER Cutting Head**
 - Automatic Focus position adjustment
 - Real-time monitoring of internal optical system
 - Motorized beam diameter adjustment (Over 6kW)
 - Applying protect windows for longer life time
 - Automatic beam magnification adjustment (Only zoom head)

- **FIBER LASER Source**
 - High quality of BPP(Beam Parameter Product)
 - High energy efficiency & long life time
 - Low maintenance cost
 - Strong in high reflecting material (Copper, Brass)

- **VBPP technology**
Variable Beam Parameter Product
 - Variation of Beam diameter & mode at LASER
 - Outstanding cutting surface & edge quality especially for thick mild steel
 - Fast piercing/cutting quality of stainless steel through rapid beam switching



- **High stiffness main frame by honeycomb structure**
 - Suppresses vibration
 - Ensures precise movement, stable & fast processing



- **Integrated HMI by SIEMENS WinCC**
 - Enhance convenience to enable all necessary settings for work on the Main page
 - High-contrast design elements in the Black color scheme
 - Restart Work, Directional Switching by Equipment Type, Touch-based Contour Exploration, etc.



SPECIFICATIONS

> Technical Data

Laser cutting system	RS3015	FS Series	FL3015	FO Series	FE Series	HD Series
Acceleration	2.5G	2.0G	1.5G	0.8G	2.0G	1.2G
Max. simultaneous positioning speed	140 m/min	140 m/min	140 m/min	120 m/min	140 m/min	120 m/min
Positioning accuracy	0.1mm/3,000mm					
Repeatability accuracy	± 0.03mm					
Available Laser source / power	n-Light VBPP Fiber 4, 6, 8, 10, 12, 15kW n-Light / IPG Fiber 2.5, 3, 4, 20kW				Raycus / Max Fiber 6, 12kW	

> Available Table format

Table format	Max. workpiece	RS3015	FS Series	FL3015	FO Series	FE Series	HD Series
3015	3,048 x 1,524	●	●	●		●	●
4015	4,064 x 1,524		●			●	
4020	4,064 x 2,050		●			●	●
6025	6,096 x 2,540		●			●	●
8025	8,128 x 2,540		●			●	
12025	12,192 x 2,540				●		
20025	20,320 x 2,540				●		
30025	30,480 x 2,540				●		
12030	12,192 x 3,048				●		
20030	20,320 x 3,048				●		
30030	30,480 x 3,048				●		

> Cutting Capacity * & E-Consumption

Laser source		Fiber					VBPP Fiber					Fiber	
Power	[W]	2500	3000	4000	6000	12000	4000	6000	8000	10000	12000	15000	20000
Steel	[mm]	16	16	20	20	25	20	25	30	30	30	35	45
Stainless steel	[mm]	8	10	12	15	25	12	20	25	30	35	40	50
Aluminium	[mm]	8	10	12	12	20	12	15	25	30	35	40	50
Brass	[mm]	6	8	10	10	12	10	12	15	15	15	15	15
Copper	[mm]	4	6	6	6	8	6	8	8	10	12	12	12
E-consumption **	[Kw]	32.5	32.9	35.4	46.4	67	37.4	45.9	51.9	57.9	66.5	75.5	89.2

* In order to cut the maximum thicknesses, the following conditions must be met

- optimally maintained and adjusted laser cutting systems
- the materials must be of the quality specified by laser materials

** Entire standard(3015, 4015, 4020) system with chiller and dust collector

- the oversized(6025, 8025, 12025, 20025, 30025, 12030, 20030, 30030) systems require an additional 6.5kW to the standard system

MEMO

