



OMEGA

HD SERIES

**Cost Efficient Fiber Laser
Machine**

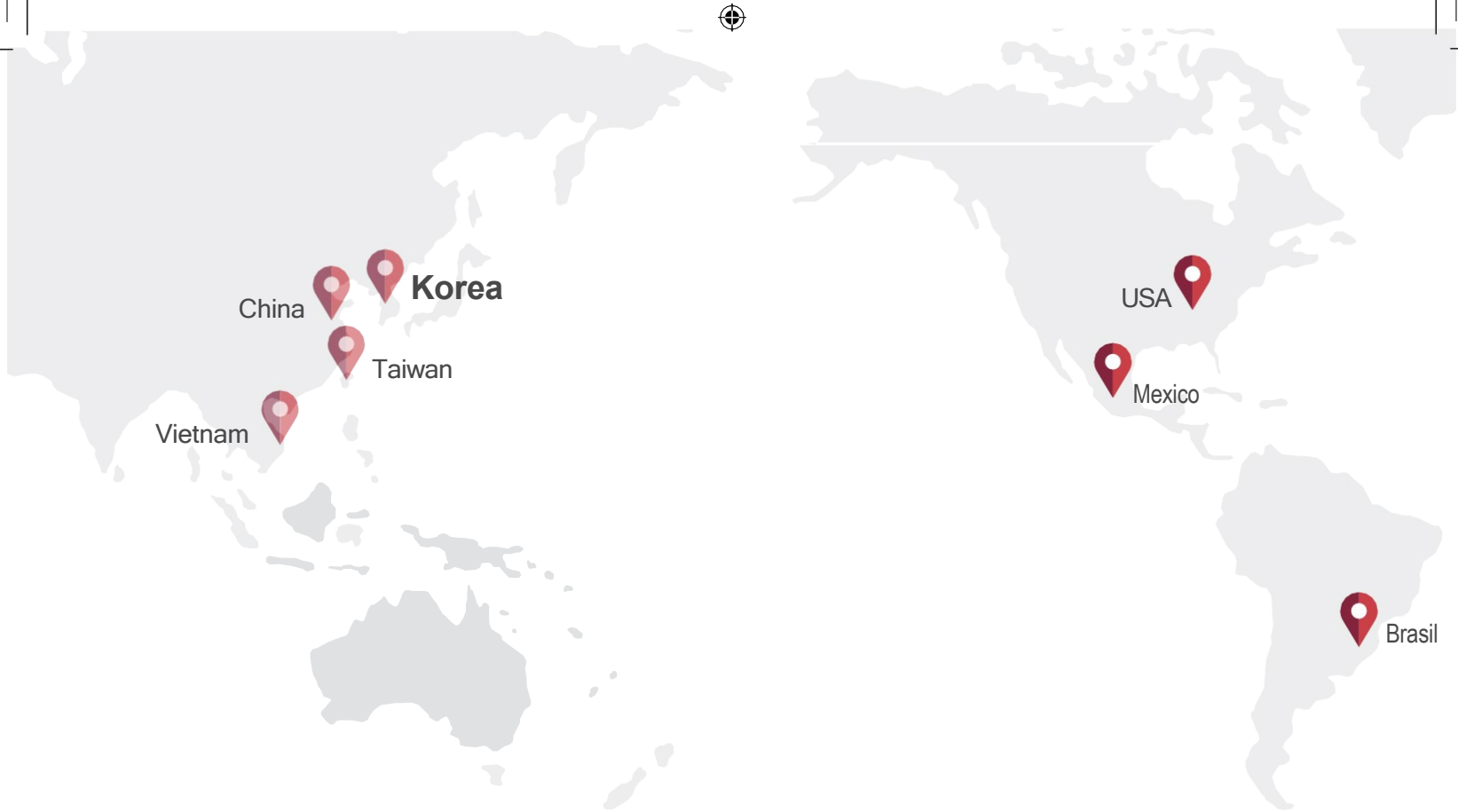


LASER & SYSTEMS

CREATING THE VALUE OF SUCCESS

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HD SERIES FIBER

HD SERIES with ultimate value



> FEATURES

- Dynamic motion control
- High stiffness main frame and cutting bridge
- Maximum work area of 8m x 2.5m
- High precision & quality
- Pallet shuttle table moves in & out in the same level
- Optimized strategic model with cost-effectiveness/ functionality / practicality

Model	HD3015	HD4015	HD4020	HD6020	HD6025
Nominal Area	3000*1500	4000*1500	4000*2000	6000*2000	6000*2500
Cutting Range X	1550	1550	2050	2050	2550
Cutting Range Y	3050	4050	4050	6050	6050
Z Axis	300				
X/Y Positioning Accuracy	±0.05				
Repeatability(mm/m)	±0.03				
Traverse Speed (m/min)	100				
Acceleration (g)	1.1				
Power (kW)	2kW-12kW				
Options Available	15kW-20kW				

FUNCTIONS

> FIBER

· Advanced FIBER Cutting Head

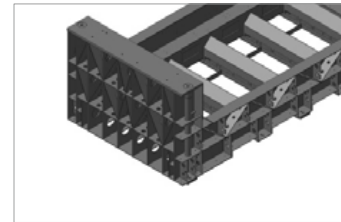
- Full proofing test to bottom glass cover
 - Temperature monitoring to bottom cover
 - Dual cover glass of collimation lens
 - Compatible with PC and Android
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· FIBER LASER Source

- High quality of BPP (Beam Parameter Product)
 - High energy efficiency & long lifetime
 - Low maintenance cost
 - Strong in high reflecting material (Copper, Brass)
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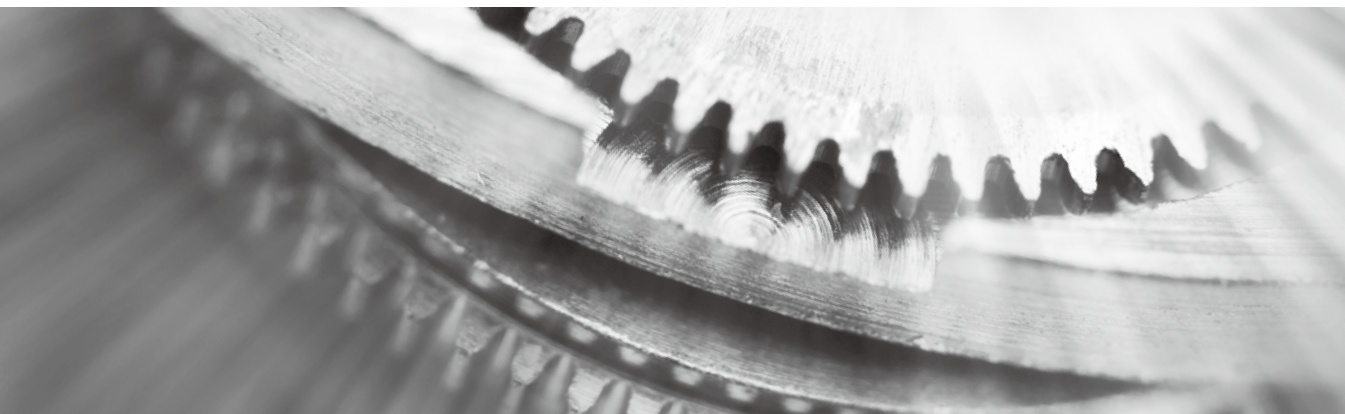
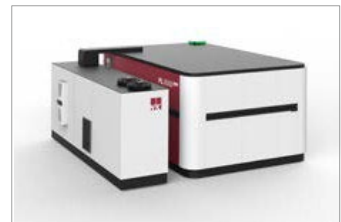
· Light & stiffness main frame

- Suppresses vibration
- Ensures precise movement, stable & fast processing



· Compact Design of all-in-one cabinet

- Constant temperature & humidity control for LASER Resonator
- No need for additional air condition room for LASER Resonator



SPECIFICATIONS



> FIBER

Series	Model	Max. workpiece	Combined LASER Power with Electric Consumption (kW)					Remark
			2kW	3kW	6kW	10kW	12kW	
HD SERIES	HD3015	3,050 x 1,550	26	29	45	65	80	15kW-20kW Available
	HD4015	4,050 x 1,550	26	29	45	65	80	
	HD4020	4,100 x 2,100	29	32	48	68	83	
	HD6025	6,150 x 2,600	34	37	53	73	88	

> CUTTING CAPACITY

FIBER Laser		2.5kW	3.0kW	4.0kW	6.0kW	8.0kW	10.0kW	12.0kW	15.0kW
Material mm	Mild Steel	16	16	20	25	30	30	30	35
	Stainless	8	10	12	20	25	30	35	40
	Aluminum	8	10	12	15	25	30	35	40
	Copper	4	6	6	8	8	10	10	10
	Brass	6	8	10	12	12	15	15	15

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

AUTOMATION

> SMART LOADER (Swing Arm type)

Automatic loading



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

Data based on 3015 size machine

> SMART LOADER (Trans type)

Automatic loading



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

Data based on 3015 size machine

> SMART CELL

Automatic loading / unloading



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. loadable height per shelf	300 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



Equipment size	9,800 x 4,200 x 5,000 mm (Excluding service space)
Max. material size	3,048 x 1,524 x 20 mm (T)
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

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