

DF High Power Fiber Laser Cutting Machine

The DF high power laser cutting systems have an edge on competitors. It offers high flexibility, easy materials handling and high accuracy for faster, more profitable parts. DF series lasers utilize a gantry structure with precision dual rack& pinion drives and AC servo motors providing customers with a high precision, fast and reliable machine. It is mainly used in thin sheet cutting.

Exclusive Performance Features

- Expert database allows for quick changes over between jobs, minimizing operator interactions, by automatically setting cutting parameters through the CNC
- Jumping mode to enhance cutting effectiveness
- Capacitive height control in quick response
- Re-trace mode allowing for the cutting process control when cutting errors occur
- Dynamic cornering control allowing for automatic adjustment of power and gases for better cutting performance in corners and tight contours
- Adjustable slope function to improve laser piercing quality
- Cutting compensation function for line & circle cutting
- Fly-piercing function with non-stop cutting which greatly improves the cutting efficiency for thin plates
- Automatic plate edge detecting function for faster setup

Laser head

- Quick-change lenses are standard, with easily adjustable focal lengths.

Transfer Table

Self-cleaning Nozzle

Latest generation control

Handhold operator for easy operation

Cantiliver Loading/Unloading System with Plate Tower

Model	DF 3015	DF 4020	DF 6022
X Stroke	3048 mm	4048 mm	6096 mm
Y Stroke	1524 mm	2024 mm	2200 mm
Z Stroke	150 mm	150 mm	150 mm
Positioning Accuracy	± 0.05 mm	± 0.05 mm	± 0.05 mm
Repeatability Accuracy	± 0.025 mm	± 0.025 mm	± 0.025 mm
Positioning Speed	150 m/min (single)	120 m/min (single)	120 m/min (single)
	210 m/min (linkage)	180 m/min (linkage)	180 m/min (linkage)
Acceleration	2 G	2 G	2 G
Fiber Laser Source Power	1 – 2 KW	1 – 2 KW	1 – 2 KW
Thickness of Cutting Board MS	≤ 16 mm	≤ 16 mm	≤ 16 mm
Thickness of Cutting Board SS	≤ 8 mm	≤ 8 mm	≤ 8 mm
Exchangeable Worktable	Bearing	720 kg	1200 kg
	Exchanging Period	8 seconds	12 seconds
			1500 kg
			30 seconds

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