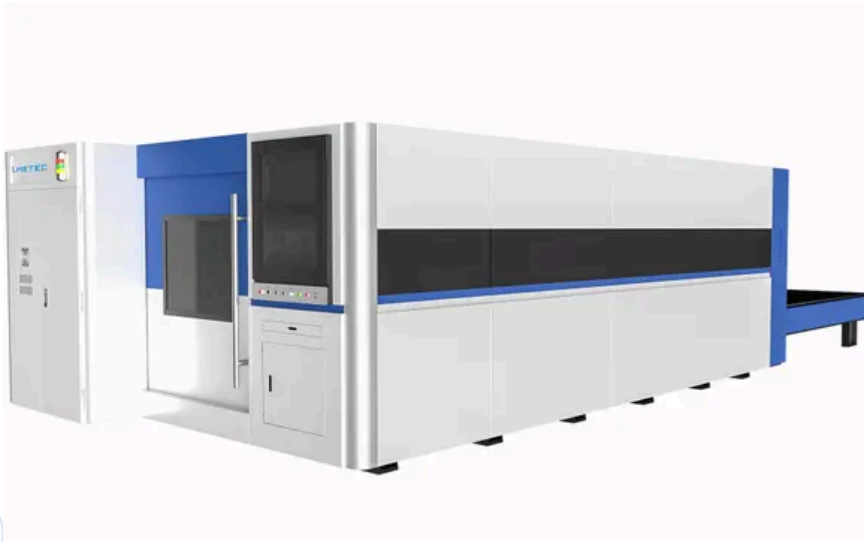
MLSF Series

Enclosed Double Table Sheet Laser Cutting Machine



Full Enclosure with Safety Protection & Dust Control

The MLSF Series combines the dual-table efficiency of the MLSD with a fully enclosed protective cover for maximum operator safety and environmental cleanliness. Integrated Hikvision video recording and Omron safety light curtains provide full visibility and protection.

Models	Working area	Positioning accuracy
9	**3,000 × 1,500 to 13,000 × 2,500 mm**	**±0.02 mm/m**

MLSF Series specifications

9 models. Values from the Metec catalogue; your configuration is confirmed in the quotation.

Parameter	MLSF 3015	MLSF 4015	MLSF 6015	MLSF 4020	MLSF 6020	MLSF 6322	MLSF 6325	MLSF 8325	MLSF 13025
Working Area (mm)	3000 × 1500	4000 × 1500	6000 × 1500	4000 × 2000	6000 × 2000	6300 × 2200	6300 × 2500	8300 × 2500	13000 × 2500
Table Load Bearing (kg)	2000	2500	3500	3500	5000	5500	12500	16500	26000
Overall Dimensions (mm)	Main frame 5170 × 2900 × 2190; tail frame 3440 × 2260 × 830	Main frame 6300 × 2900 × 2190; tail frame 4380 × 2260 × 830	Main frame 8280 × 2900 × 2190; tail frame 6370 × 2260 × 830	Main frame 6300 × 3540 × 2190; tail frame 4380 × 2620 × 830	Main frame 8280 × 3540 × 2190; tail frame 6370 × 2620 × 830	Main frame 8850 × 3645 × 2320; tail frame 6660 × 2820 × 830	Main frame 8850 × 3870 × 2430; tail frame 6660 × 3100 × 980	Main frame 10850 × 3870 × 2430; tail frame 8660 × 3100 × 980	Main frame 15850 × 3870 × 2430; tail frame 13660 × 3100 × 980
Max. Acceleration	1.5G	1.5G	1.5G	1.5G	1.5G	1.5G	1.2G	1.2G	1.2G
Max. Linkage Speed (m/min)	120	120	120	120	120	120	120	120	120
Max. Positioning Speed (m/min)	100	100	100	100	100	100	100	100	100
X-Axis Travel (mm)	1520	1520	1520	2020	2020	2220	2520	2520	2520
Y-Axis Travel (mm)	3050	4050	6050	4050	6050	6350	6350	8350	13050
Z-Axis Travel (mm)	140/300	140/300	140/300	140/300	140/300	140/300	150/350	150/350	150/350
X/Y Positioning Accuracy (mm/m)	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
X/Y Repositioning Accuracy (mm/m)	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02

What the MLSF Series is built for

Safety Protection

Fully enclosed design with protective cover ensures operator safety and compliance.

Efficient Exchange

Dual exchange tables improve cutting efficiency with uninterrupted workflow.

Dust Control

Enclosure with efficient extraction system reduces smoke and dust for a cleaner environment.

Smart Monitoring

Hikvision cameras with 500G storage provide full visibility and recording of the entire process.

Components you can name

Main components and their makers as listed in the catalogue, with the options in its configuration table. Alternatives are quoted on request.

Enclosure	Full protective cover around the cutting area
Safety light curtains	Omron (Japan), two or four depending on machine size
Video recording	Hikvision camera with 500 GB storage
Exchange tables	Two tables: one is loaded while the other cuts
Laser source	Maxphotonics (China); option: Raycus (China)
Cutting head	Bochu (China)
Control and nesting software	Bochu bus controller, operating and nesting software (China)
Servo motors and drives	Bochu (China)
Gear reducer	Techmech (China)
Guide rails	Gausscn (Germany); option: HIWIN (Taiwan, China)
Racks	Gausscn (Germany); option: APEX (Taiwan, China)
Electrical components	Schneider (France)
Water chiller	Hanli (China); option: S&A or Tongfei (China)
Pneumatic valves	SMC (Japan) for 3–6 kW, Raycee (China) for 12–30 kW, Aventics (Germany) for 40–60 kW