

MSL FLEX prices:

Laser Source	Laser Cutting Head	3m x 1.5m	4m x 2 m	6m x 2m	6m x 2.5m
SIL OEM 2 kW	Raytools BM111	£185,000	£230,000	£250,000	£250,000
SIL OEM 3 kW	Raytools BM111	£210,000	£255,000	£285,000	£285,000
SIL OEM 4 kW	Thermacut Eco 8kW	£245,000	£290,000	£310,000	£310,000
SIL OEM 6 kW	Thermacut Eco 8kW	£250,000	£295,000	£315,000	£315,000
SIL OEM 8 kW	Thermacut Eco 8kW	£305,000	£350,000	£370,000	£370,000
SIL OEM 12 kW	Thermacut Eco 30kW	£345,000	£390,000	£410,000	£410,000
SIL OEM 20 kW	Thermacut Eco 30kW	£445,000	£490,000	£510,000	£510,000
IPG YLR 2 kW	Raytools BM111	£200,000	£245,000	£265,000	£265,000
IPG YLR 3 kW	Raytools BM111	£225,000	£270,000	£290,000	£290,000
IPG YLR 4 kW	Thermacut Eco 8kW	£260,000	£305,000	£325,000	£325,000
IPG YLR 6 kW	Thermacut Eco 8kW	£285,000	£330,000	£355,000	£355,000
IPG YLS 3kW	Raytools BM111	£255,000	£300,000	£320,000	£320,000
IPG YLS 4kW	Raytools BM111	£315,000	£360,000	£380,000	£380,000
IPG YLS 6kW	Thermacut Eco 8kW	£325,000	£370,000	£390,000	£390,000
IPG YLS 8kW	Thermacut Eco 8kW	£365,000	£410,000	£430,000	£430,000
IPG YLS 10kW	Thermacut XP 30kW	£385,000	£430,000	£450,000	£450,000

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Laser Source	Laser Cutting Head	3m x 1.5m	4m x 2 m	6m x 2m	6m x 2.5m
IPG YLS 12kW	Thermacut XP 30kW	£405,000	£450,000	£470,000	£470,000
IPG YLS 20kW	Thermacut XP 30kW	£565,000	£610,000	£630,000	£630,000
MaxPhotonic Elite 2kW	Raytools BM111	£200,000	£245,000	£265,000	£265,000
MaxPhotonic Elite 3kW	Raytools BM111	£225,000	£270,000	£290,000	£290,000
MaxPhotonic Elite 4kW	Thermacut Eco 8kW	£260,000	£305,000	£325,000	£325,000
MaxPhotonic Elite 6kW	Thermacut Eco 8kW	£285,000	£320,000	£340,000	£340,000
MaxPhotonic Elite 12kW	Thermacut XP 30kW	£405,000	£450,000	£460,000	£460,000
MaxPhotonic PRO 2kW	Raytools BM111	£205,000	£250,000	£270,000	£270,000
MaxPhotonic PRO 3kW	Raytools BM111	£230,000	£275,000	£295,000	£295,000
MaxPhotonic PRO 4kW	Thermacut Eco 8kW	£275,000	£320,000	£340,000	£340,000
MaxPhotonic PRO 6kW	Thermacut Eco 8kW	£295,000	£340,000	£360,000	£360,000
MaxPhotonic PRO 12kW	Thermacut XP 30kW	£440,000	£495,000	£515,000	£515,000
MaxPhotonic PRO 15kW	Thermacut XP 30kW	£470,000	£515,000	£535,000	£535,000
MaxPhotonic PRO 20kW	Thermacut XP 30kW	£510,000	£555,000	£575,000	£575,000

TECHNICAL PARAMETERS

Machine sizes: 3 x 1.5m, 4 x 2m, 6 x 2m & 6 x2.5
Gantry: aluminum extrusion
Max No. of tool stations: 1 (straight cutting only)
Exchange table: Two-level with automatic pallet exchange

Laser source: up to 12 kW: IPG Photonics
(Entry-level laser source) SIL Laser

Cutting head up to 8 kW: THERMACUT EX-TRABEAM® Eco
(Entry-level cutting head) above 8 kW: THERMACUT EX-TRABEAM® XP
Raytools BM

Positioning speed 130 m/min
Max. acceleration 1.5 G
Positioning accuracy ± 0.03 mm
CNC control ECAT

CONFIGURATION INCLUDES

- Dynamic MSL Flex steel-structure machine body, Low-seated double side driven gantry (rack-pinion system) Lightweight extruded aluminium bridge.
- High-efficient fume extraction table with electro-pneumatic zone opening (sectional) & Manual waste tray (for scrap material)
- Protection safety cabin (class 1) with electrically lifted guillotine doors, Manually retractable table (1 palette) for loading & unloading of material, Manual lubrication of guidelines (via access free lubrication points)
- Fiber laser source, Automatic laser head , Cooling unit, Filter unit with remote control
- Laser pointer for manual starting point setup, LU2K unit (Nozzle Cleaning & Calibration of capacitive sensor), Monitoring of protection glass
- Power distributor for machine system (Electrobox), Maintenance set for laser head and Consumable starting set
- Integrated MMI operation panel with touchscreen monitor, ECAT control system for intuitive machine operation
- Integrated database with cutting parameters, Easy operating and maintenance planning tools, Diagnostic SW tools with access via Remote diagnostics system (via TeamViewer)
- Installation & Comissioning, Training and Test cutting (by laser specialist)
- Machine transport costs , Travel and Accommodation costs of the technicians.

SPARES WITH MACHINES

NOZZLES 20 PCS DIFFERENT SIZES
PROTECTION WINDOW QBH 2 PCS
PROTECTION WINDOW PROCESS 10 PCS
WATER FILTER 4 PCS
CERAMIC SENSOR 2 PCS
SENSOR CABLE 1 PCS

WARRANTY

Machine 24 Months
Cutting Head Excluding optics 12 Months
Sil Laser source upto 3KW 24 Months
SILE Laser source above 3KW 36 Months
IPG YLS/YLR Laser sources 36 Months
Max Photonics Laser sources 36 Months

TECHNICAL PARAMETERS

Motor X Panasonic 3 kW
Motor X' Panasonic 3 kW
Motor Y Panasonic 2 kW
Motor Z Panasonic 750 W
Rack and pinion Gudel
Pinion Gudel
Gearbox Nidec
LM rails X, Y THK/Hiwin
Z axis Ball screw Hiwin
CNC controller Sil EtherCat
Screen 21" Portrait screen
Pressure regulator 30 bar Festo
Gas line 3 Air/N2 and O2
Gas Filter 1 Before EPR
Chiller Gem Orion
Machine gross weight 7,000 kg /10,000 kg /17,000 kg
X axis length 3,100 mm/ 4,050 mm/ 6,550 mm
Y axis length 1,550 mm/ 2,050 mm/ 2,550 mm
Z axis length 270 mm
XY interpolated speed 120 m/min
Acceleration 1.2G
Accuracy X / Y / Z 0.05 mm / 0.05 mm / 0.02 mm
Electricals 3 PHASE 400 VAC 32 AMPS 50Hz
Pallet Style Skid type, dual-level
Light Curtains 3-Beam
Exhaust Zone 6 Zones, pneumatically operated
Compliance CE approved
Enclosure compliance Class 4

OPTICAL CONFIGURATION

up to 3 kW Fiber core 50 microns
4 - 6 kW Fiber core 100 microns
8 - 20 kW Fiber core 100 microns