



MSF Compact series

Compact, fast, precise

Laser

MSF Compact combines precise 2D laser cutting with a compact design. This space-saving version of MicroStep's fiber laser machine is available in **work areas** of **1,000 x 2,000 mm**, **1,250 x 2,500 mm** and **1,500 x 3,000 mm** and is particularly attractive thanks to its small footprint in combination with the genuinely high cutting quality. A manually extractable cutting table enables easy and straightforward loading.

MSF Compact machines are available with state-of-the-art fiber laser sources with a power range **1 – 8 kW**. The machines are perfect for production of highly accurate parts at high cutting speeds, with a small footprint and low maintenance and operational costs. Their high dynamics is achieved by a low-seated gantry, digital AC drives and precise planetary gears.



Your solution for fast and precise cutting



- A powerful, compact laser cutting machine for cutting a wide variety of materials
- High precision and accuracy of parts and contours
- Excellent dynamics thanks to a robust machine design, low-seated gantry, digital AC drives and precise planetary gears

Robust, dynamic, and long-lasting machine design



- Gantries with extremely high torsion resistance enable high traverse speeds
- Compact, manually extractable cutting table for convenient loading of sheets up to 15 mm thick
- Bellows on all axes protect the guidelines from contamination (optional)

Advanced control features



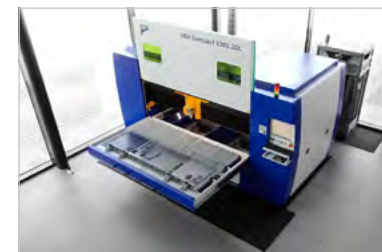
- MSF Compact machines include several advanced control and processing features by default, such as:
- Automatic material edge detection
 - Dynamic piercing
 - DynaFly cutting and marking
 - Smart Z Movement – optimized tool path control
 - Predictive collision prevention
 - Automatic nozzle cleaning
 - Automatic height sensor calibration
 - Auto-monitoring of protection glass
 - Zonal cutting

High economic efficiency



- 2/3 lower power consumption and higher cutting speeds (compared to CO₂ laser of the same power)
- Easy maintenance
- No gases required for generating the fiber laser beam
- Extremely small footprint
- No warm-up time, after switching on immediately ready to work
- Fast commissioning thanks to its compact design (Plug & Produce)

Compact machine with manual loading and unloading



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High-quality components from renowned brands



High-quality components combined with MicroStep's dynamic motion control ensure excellent quality and long-term reliability of the cutting results.

- Laser sources: IPG YLS/YLR (Germany)
- Cutting heads: THERMACUT EX-TRABEAM® ECO or HP (Germany)
- Servo drives: Panasonic (Japan)
- Gearboxes: Stöber (Germany)
- Racks: ATLANTA (Germany)
- Linear guides: BOSCH Rexroth (Germany)