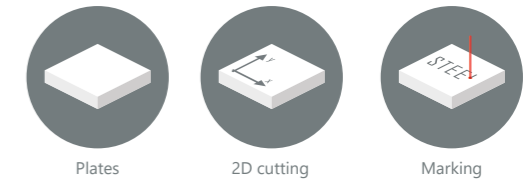


MSF Cut series

Reliable 2D performer for fiber laser cutting



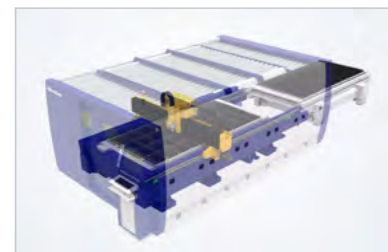
The state-of-the-art fiber laser machine **MSF Cut** is an ideal production tool for straight cutting of mild steel, stainless steel, aluminum, copper or brass. The series is available in three sizes with work areas of 3,000 x 1,500 mm, 4,000 x 2,000 mm and 6,000 x 2,000 mm. Laser sources with powers of up to 15 kW are available.

MSF Cut machines achieve excellent dynamics thanks to a rigid welded gantry, high-torque digital AC drives, precision planetary gears and a sophisticated tool motion control by MicroStep. Despite its attractive pricing with comparatively low investment and operating costs, the machine includes several advanced functions such as automatic nozzle cleaning, nozzle check by camera, predictive collision prevention, automatic monitoring of protection glass, Smart Z Movement or DynaFly features.

MSF Cut machines can be integrated with all MicroStep automatic material handling systems.



High-quality, efficient 2D laser cutting



MSF Cut is an efficient fiber laser cutting system that combines reliability, precision and economy. The machine is available in different configurations:

- Three available sizes with work areas of 3,000 x 1,500 mm, 4,000 x 2,000 mm and 6,000 x 2,000 mm enable processing of sheets from standard to large
- Laser sources ranging from 1 to 15 kW allow fast and efficient laser cutting of thin and medium material thicknesses



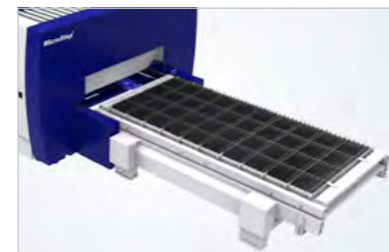
High-quality components from renowned brands



High-quality components combined with MicroStep's dynamic motion control ensure excellent quality and long-term reliability of the cutting results. Here is a short excerpt:

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

Automatic shuttle table with sectional fume extraction



By default, the machine is equipped with an automatic, hydraulically lifted shuttle table that enables simultaneous cutting and unloading of parts/loading of new material in two working positions. Electronic control of the table's suction zones ensures high suction efficiency and an environmentally safe operation.

Outstanding cutting quality - whatever the cutting job



MSF Cut machines achieve outstanding cut quality – regardless of the material type and contour shape. Thanks to the highly dynamic tool motion control and an advanced process control system integrated in the cutting head, the machines deliver smooth cut edges even in small details. The fiber laser series enables 2D processing of mild steel, stainless steel, aluminum, brass and copper, among other materials. For thin parts with grid-like contours such as grids, arcs, circles or polygons, **DynaFly** feature provides fast and highly efficient results.

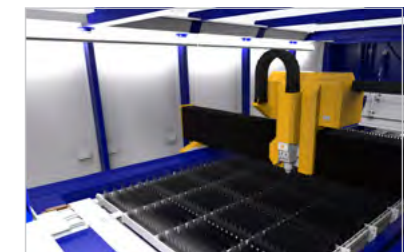
Automation & Digitalization



MSF Cut series can be used with the majority of MicroStep's automated sheet handling options: a combination of the machine with MSLoad, MSTower and MSSort systems ensures the highest possible optimization of material flow. In connection with advanced order and production management provided by MicroStep's **CyberFab Manager**, the cutting machine can turn into a fully connected production cell within the framework of Smart Factory and Industry 4.0 methodologies.



Efficient operation with a high degree of automation



MSF Cut series includes many 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 + nozzle check by camera
- Automatic height sensor calibration
- Auto-monitoring of protection glass
- Zonal cutting