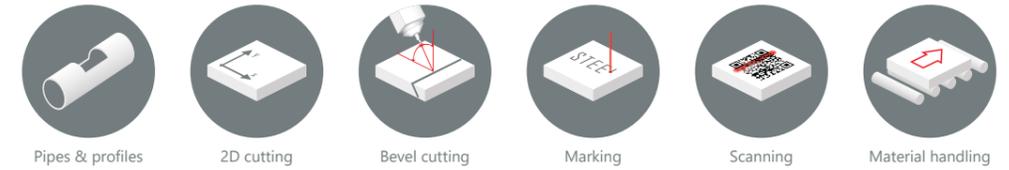


MSF Pipe series

Fiber laser tube cutting solutions



Laser



MSF Pipe machines provide precise and reliable fiber laser cutting of **pipes** and **profiles** with a variety of cross-section types – round, rectangular and custom shaped. The machines come in two basic versions – **manual** or fully **automated** – and allow to process pipes of up to 500 mm in diameter and 12 meters in length, depending on the configuration.

The machines accommodate advanced features and options such as **bevel cutting** with auto-calibration feature ACTG®, motorized pipe supports with compensation of torsional stiffness of pipes and profiles, automated unloading support platforms and more. A **3D laser scanner** is used to determine the real shape of tubes along the cut trajectories in order to map and compensate for real workpiece imprecisions – and thus deliver the most accurate cutting results.

MSF Pipe with manual loading



For applications with less workload or a tight floor plan, a version of MSF Pipe with manual loading and unloading is available. The machine features motorized pipe supports that enable convenient positioning and a smooth, efficient cutting process. Torsional stiffness compensation is provided for pipes with smaller diameters.

Pipes and profiles of different cross-sections



MSF Pipe can process pipes and profiles with different cross-sections: from common round and elliptical pipes through square and rectangular hollow profiles to special shaped profiles.

Automated material handling



The machines can be fully automated via handling systems and production management software:

- Loading of material
- Detection of shape deviations via a laser scanner
- Loading and execution of cutting programs
- Unloading of finished parts
- Updating of the warehouse database, exchanging information with ERP system

Laser scanner for measuring the true profile shape



MSF Pipe machines are equipped with a 3D laser scanner that scans the exact shape of the workpiece in the place of cutting. Advanced algorithms then allow the control system to adjust the movement of cutting tool and pipe supports accordingly and compensate for possible inaccuracies of the particular pipe or profile.

Custom laser tube applications



Complex production challenges sometimes require unorthodox solutions. If even the rich customization options do not go far enough, thanks to in-house developed hardware and software MicroStep is ready to offer fully tailored solutions with special functionalities such as robotic manipulators, multiple work positions and more.

Advanced safety features



Each version of MSF Pipe is delivered with safety elements that ensure safe operation in production environment. A safety cabin completely encloses the area of the machine where the actual cutting takes place while lockable fences make sure no one is harmed by the outside moving parts.