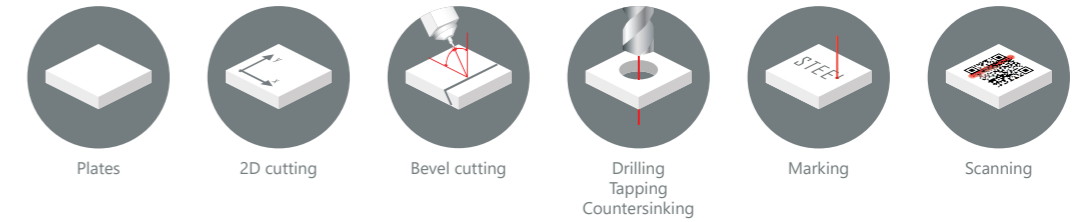




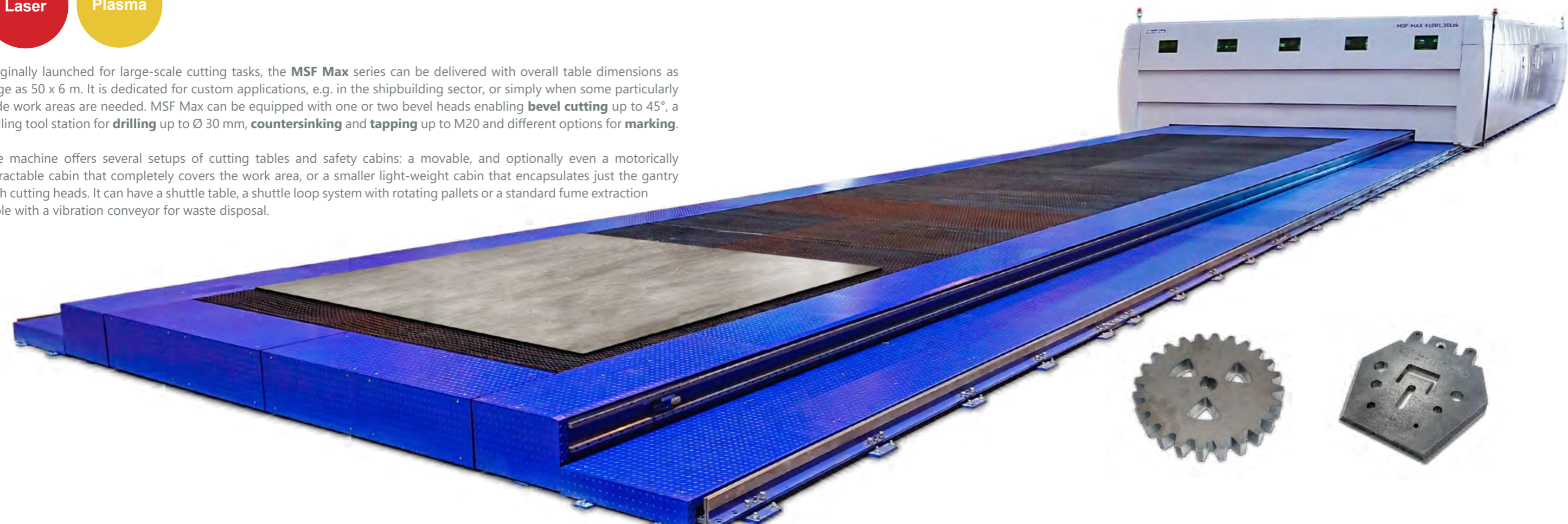
MSF Max series

3D fiber laser machine for large-scale applications



Originally launched for large-scale cutting tasks, the **MSF Max** series can be delivered with overall table dimensions as large as 50 x 6 m. It is dedicated for custom applications, e.g. in the shipbuilding sector, or simply when some particularly wide work areas are needed. MSF Max can be equipped with one or two bevel heads enabling **bevel cutting** up to 45°, a drilling tool station for **drilling** up to Ø 30 mm, **countersinking** and **tapping** up to M20 and different options for **marking**.

The machine offers several setups of cutting tables and safety cabins: a movable, and optionally even a motorically retractable cabin that completely covers the work area, or a smaller light-weight cabin that encapsulates just the gantry with cutting heads. It can have a shuttle table, a shuttle loop system with rotating pallets or a standard fume extraction table with a vibration conveyor for waste disposal.



Heavy-duty fiber laser cutting machine



The MSF Max, with its maximum work length of up to 50,000 mm and width of up to 6,000 mm, is an excellent laser cutting solution for large-scale applications. The fiber laser cutting machine developed originally for the shipbuilding industry is designed for reliable and precise processing of large components. The design makes MSF Max a heavy-duty fiber laser cutting machine for complex and extraordinary cutting tasks.

Mobile and retractable safety cabin



To accommodate its unconventional work areas while maintaining high safety standards, MSF Max uses a mobile safety cabin to shield against laser beam reflection. The mobile cabin moves on its own guidelines and can reach the entire work area of the machine. Optionally, a retractable version of the mobile cabin allows to choose different work area sizes and thus enables an unmatched flexibility of operation.

Laser bevel head for bevel cutting up to 45°



- V- and X-cuts as well as complex Y- or K-cuts up to 45° with micro joints
- Additional Beveling Process (ABP) – simple and reliable subsequent weld edge preparation via a laser scanning process
- Easy programming thanks to intuitive software tools
- Auto-calibrated height sensor for correct height control in all cutting angles

Calibration station with ACTG® unit integrated into the gantry



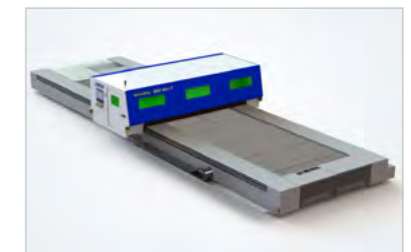
In case MSF Max is equipped with a laser bevel head, the system comes with the ACTG® unit and auto-calibration feature by default. Unlike in other MicroStep machines, the unit is integrated directly into the gantry in a combined calibration station that is ejected during the calibration process. The station contains also a pad for calibration of the capacitive height sensor in the cutting head and a nozzle cleaning system consisting of a camera and a wiping brush.

Fully automatic drilling up to Ø 30 mm and tapping up to M20



- Fully automatic drilling solution for the MSF Max machine
- Drilling up to Ø 30 mm, tapping up to M20 and countersinking
- Automatic tool exchange with a tool magazine for up to 8 tools mounted on the gantry
- Auto-calibration of drill bits (ACDB) feature
- Pneumatic retainer close to the drill tool ensures accuracy of the drilling process

MSF Max C: Save space without compromising the performance



MSF Max is also available in a version with a compact safety cabin that encapsulates just the gantry instead of the whole work area. MSF Max C has the same configuration possibilities as standard MSF Max but requires significantly less installation space, so it is ideal for customers with limited workshop area.