

DS

Automated plate processing line

MicroStep[®]
spol. s r.o.

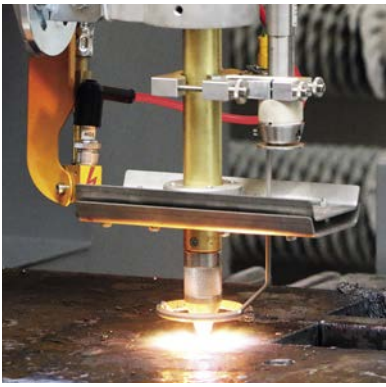


- *DS plate processing line is designed for highly efficient drilling and cutting with the possibility of automatic plate feeding and automatic part sorting on output*
- *Dedicated for structural steel applications, such as high-precision fittings, gusset plates, endplates and flanges*
- *High-quality plasma cutting with high-definition plasma as well as with standard air plasma sources or oxyfuel cutting technology*
- *Equipped with a 5-axis rotator for bevel cutting and ACTG to increase bevel cutting accuracy*
- *Wide range of optional accessories offer combinations of various technologies*
- *Automatic loading system consisting of input chain conveyors*
- *Drilling and tapping heads with automatic tool exchange and measurement of drill lengths*
- *Covers for protection of mechanical parts*
- *Efficient and user-friendly PC-based CNC control system iMSNC[®]*
- *Full network connectivity*
- *Remote diagnostics and assistance*
- *Advanced servicing software tools*



Tool length
measuring





Oxyfuel cutting head with a capacitive sensor, automatic gas console and igniter

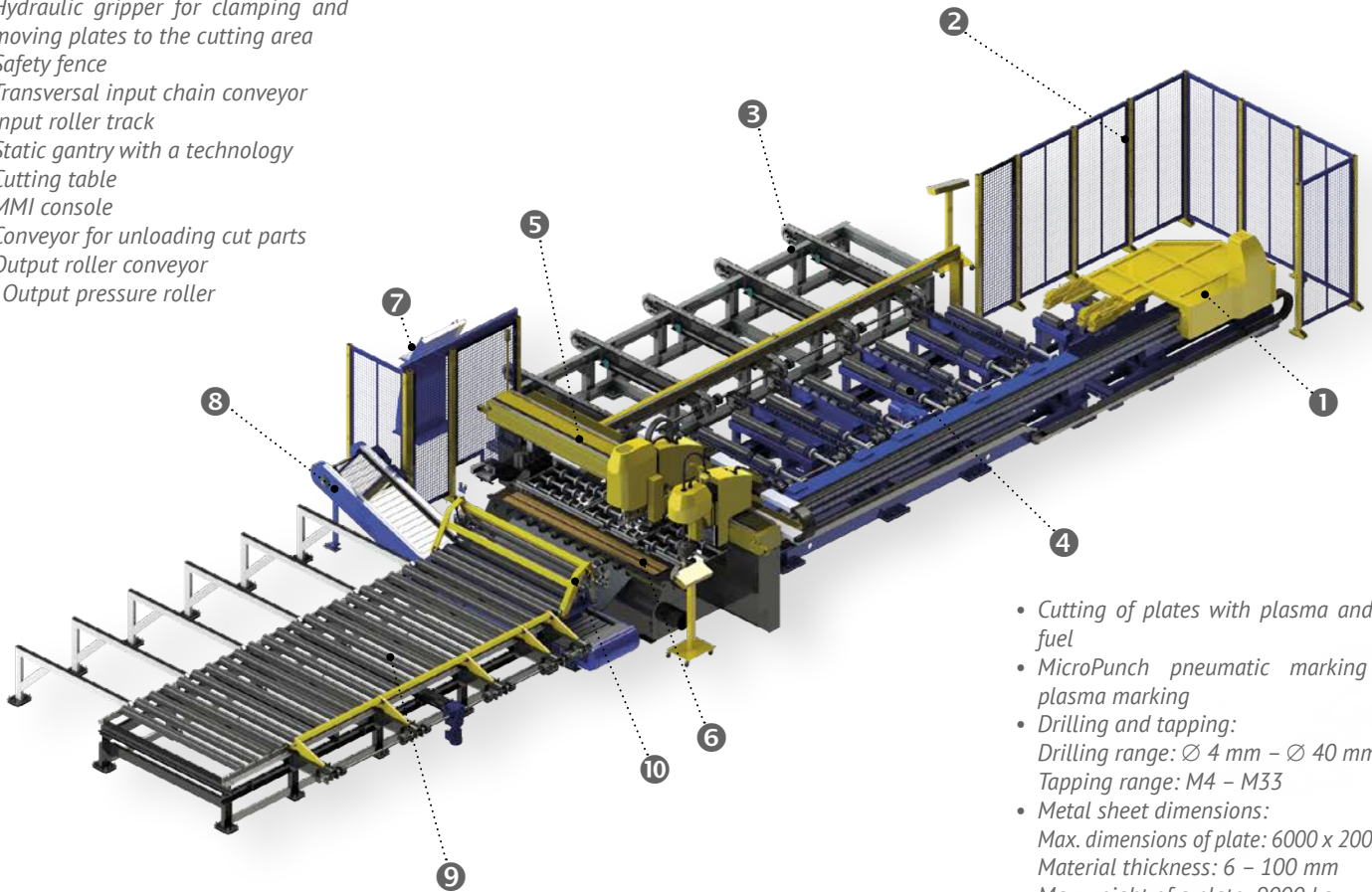


5-axis plasma head with infinite rotation enables bevel cutting of sheets with a tilt of up to 50°; ACTG increases accuracy of bevel cutting with a plasma rotator



Drilling and tapping heads with automatic tool exchange and measurement of drill lengths; cleaning chips off plates after drilling

- 1) Hydraulic gripper for clamping and moving plates to the cutting area
- 2) Safety fence
- 3) Transversal input chain conveyor
- 4) Input roller track
- 5) Static gantry with a technology
- 6) Cutting table
- 7) MMI console
- 8) Conveyor for unloading cut parts
- 9) Output roller conveyor
- 10) Output pressure roller



- Cutting of plates with plasma and oxy-fuel
- MicroPunch pneumatic marking and plasma marking
- Drilling and tapping:
Drilling range: \varnothing 4 mm – \varnothing 40 mm
Tapping range: M4 – M33
- Metal sheet dimensions:
Max. dimensions of plate: 6000 x 2000 mm
Material thickness: 6 – 100 mm
Max weight of a plate: 9000 kg

Automatic clamping of the material is provided by hydraulic grippers with integrated material thickness sensors



Tilttable grate ensures sliding of parts with max. dimensions of 300 x 500 mm to the output conveyor



After processing, finished parts slide to a sideways output conveyor while the waste material is being pushed further to the output roller track

