



COMPLEX CNC CUTTING MACHINES

MicroStep[®]
spol. s r.o.



- Cutting of sheets, pipes, profiles, domes, elbows
- Combination of technologies on one machine
- Wide range of additional accessories
- Material flow automation
- CAPP applications for production management
- CAM software
- Robotic applications

PLASMA | LASER | OXYFUEL | WATERJET | DRILLING | TAPPING | MARKING

MG CNC plasma & oxyfuel cutting machine



The MG series is MicroStep's top class CNC cutting machine suitable for long-term industrial use and meeting highest requirements on precision, performance and easy operation. MG machines provide a wide variety of applications: bevel cutting

with plasma and oxyfuel, pipe, profile, dome or elbow cutting, drilling with automatic tool exchange, plate positioning with laser sensor or a CCD camera, inkjet or MicroPunch marking. A special heightened version of the gantry allows oxyfuel cutting up to 250 mm.



CombiCut CNC plasma & oxyfuel cutting machine



This robust and high-precision CNC machine is designed especially for multiple-shift high-performance plasma and oxyfuel cutting. It allows cutting of steel with oxyfuel up to 300 mm, bevel cutting with a pair of rotary oxyfuel triple torches or plasma rotators, simultaneous cutting with more than 10 torches, drilling up to Ø 40 mm, inkjet or MicroPunch marking, pipe and dome processing as well as additional beveling (ABP function).



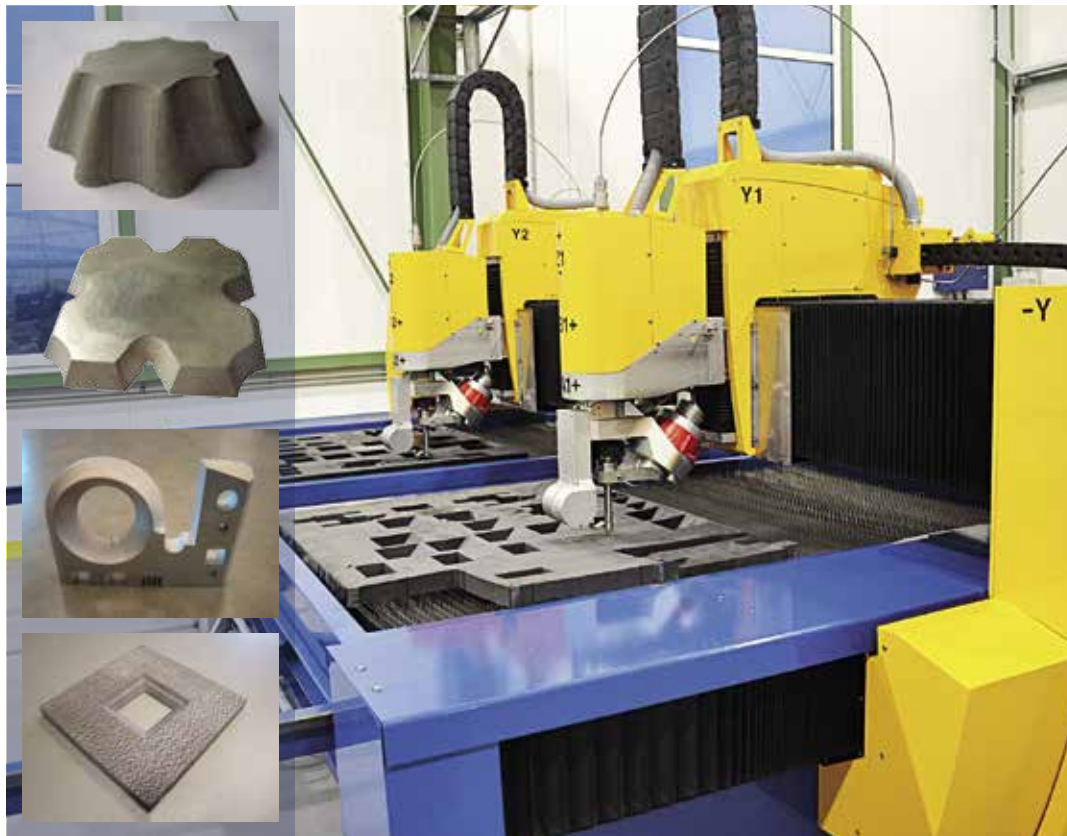
MSF Fiber laser cutting system



MSF machine is a powerful laser cutting system for cutting of materials with a fiber laser, or a combination of fiber laser and plasma. The machine is designed for production of highly accurate parts at high cutting speeds, with distinctively lower maintenance and operational costs compared to CO₂ lasers. The outstanding dynamics of MSF is achieved by a low-seated gantry, digital AC drives and precise planetary gears. The machine is equipped with an automatic shuttle table. It can also be equipped with pipe cutting equipment with an option of automatic material loading. Other optional equipment can be a laser bevel head for 3D cutting, or a revolver tapping head.



AquaCut CNC waterjet cutting machine



AquaCut is a high-precision CNC cutting machine designed for processing of a wide variety of materials including those that cannot be subject to thermal or mechanical stresses. Pure water or abrasive cutting can be applied to metal, stone, marble, armoured glass, ceramics, plastics, wood, corrugated cardboard, foamed material as well as sandwich materials. The machine can be equipped with a 5-axis waterjet rotator as well as combined with plasma, pipe and profile cutting or tapping. ABC compensation of straight cuts and periodic height sensor (PHS) are the latest options available.



Waterjet



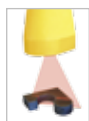
W-Multi



Waterjet rotator



ACTG



ABP scanner



Plasma



Rotator



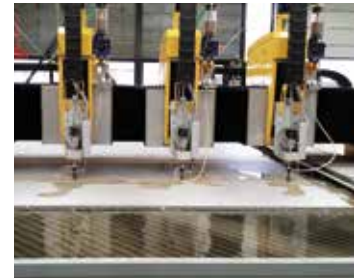
Pipe & profile cutting



Tapping



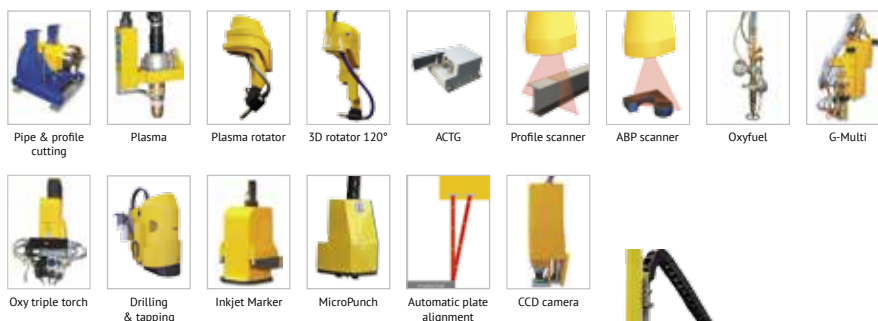
Sludge removal conveyor



ProfileCut pipe, profile & sheet cutting machine



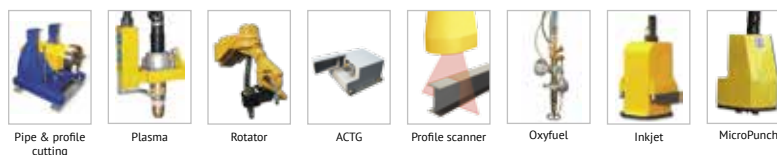
ProfileCut is a variable machine dedicated for production of steel structures. Besides optional pipe-, rectangular profile- and sheet cutting zones it has a dedicated zone for cutting of structural profiles such as I, U or L. To enable precise division as well as cut-outs in required spots on the beam, the machine is equipped with a laser scanner for measuring of the exact shape of profile in the place of cutting which allows the control system to adjust the movement of tool according to the true shape of profile. In addition, the machine offers drilling and marking operations on beams.



PipeCut CNC pipe & profile cutting machine



PipeCut machine offers a wide range of pipe and profile cutting possibilities for various industrial applications in offshore, lifting and agricultural equipment, pipelines, power plant and steel constructions or shipbuilding. Modular design of this machine allows to meet unique pipe fabrication needs and thus become a valid part of client's production facility.

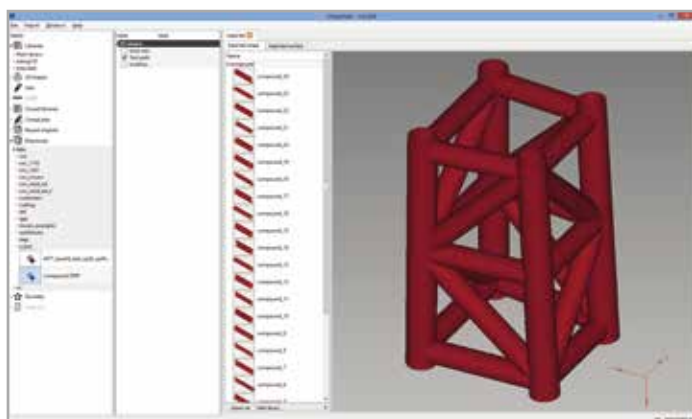


Software solutions from MicroStep for effective production



AsperWin

CAM software MicroStep AsperWin® provides tools for easy and fast creation of NC programs for different cutting technologies. The basic version can be extended with modules for various cutting applications such as bevel cutting, pipe cutting, multi-torch cutting, drilling or tapping. For enhanced flexibility it is possible to get AsperWin® with a network license.



mCAM

3D CAM software MicroStep mCAM is a tool for automated creation of cutting plans for 3D structures from planar and 3D shapes commonly used in steel constructions – circular pipes, rectangular or IPE profiles, sphere segments or domes – from the imported 3D solid models STEP or IGES. Along with its independent version, mCAM can also be integrated with MPM system and/or directly interfaced with onsite ERP systems.

Name	Preview	Dimensions [mm]	Material name	Weight [kg]	Cut Length [m]	Machine	Description	Branch No.	Position No.	Comments / Attachments	Select
00_2017_4_1.1 KAPITOL 10.17		1210 x 610	Steel Sheet S275 Z10	415.55	0.08						23
00_2017_4_1.2 KAPITOL 10.17		4000 x 600	Steel Sheet S275 Z10	168.27	10.10						23
00_2017_4_1.3 KAPITOL 10.17		4000 x 600	Steel Sheet S275 Z10	168.27	10.10						23
00_2017_4_2.1 KAPITOL 10.17		1600 x 2300	Steel Sheet S275 Z10	219.47	10.08						23
00_2017_4_2.2 KAPITOL 10.17		1400 x 1100	Steel Sheet S275 Z10	70.93	4.70						23
00_2017_4_2.3 KAPITOL 10.17		1600 x 2300	Steel Sheet S275 Z10	219.47	0.10						23

MPM

MicroStep Production Management (MPM) provides computer-aided process planning (CAPP) features for automation of the workflow on CNC machine(s) or production lines. It is an integrated system of order processing, nesting, stock management and machine operation planning that interconnects pre-production data, control systems of CNC machines and the automatic nesting software AsperWin®.



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