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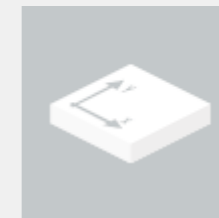
CNC METAL CUTTING SOLUTIONS FOR THE INDUSTRY

OFFICIAL MICROSTEP DISTRIBUTOR IN LITHUANIA

www.SERPANTINAS.com



Plates



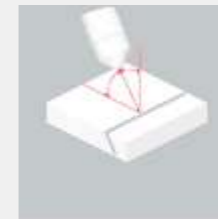
2D cutting



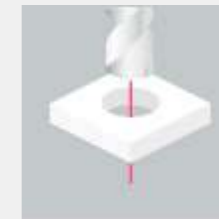
Pipes & profiles



Domes



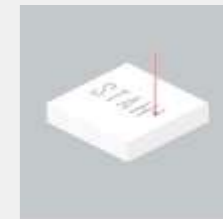
Bevel cutting



Drilling
Tapping
Countersinking



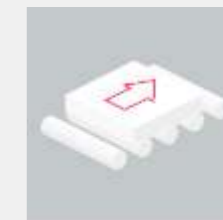
Beams



Marking



Scanning



Material handling

We are certain that the expertise accumulated by our company in sales, service and technical solutions over 25 years will allow us to fulfil all of your needs.

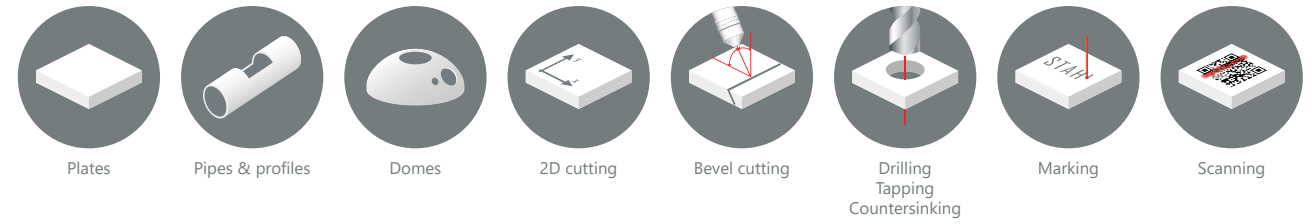
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MG series

Multi-functional machine for the most demanding tasks



The **MG series** is the top performer among MicroStep's cutting machines.

It is built for heavy-duty industrial use to meet the highest demands on precision, performance and ease of operation.

MG machines are suitable for a variety of applications from **2D** and **bevel cutting** with plasma and oxyfuel, **pipe & profile cutting**, **dome cutting**, **drilling**, **tapping** and **countersinking** to **marking** and **additional beveling** with ABP technology.



Smooth and precise positioning



Because a robust machine construction is an important condition for excellent cutting results, the gantry supports have been extended by 35% in longitudinal direction (X axis). Thanks to the greater stability of the positioning system, the machine will operate smoothly also with heavier equipment installed.

Long-lasting, low-maintenance planetary gears



In order to take full advantage of the dynamics and performance of the AC drive system, the MG series uses long-lasting and low-maintenance planetary gears.

Stiff gantry beam design



The MG series has a rigid gantry construction. In comparison to previous generation of the machine, the stiffness of the gantry has been increased three-fold. That means even less vibrations, resulting in clean and precise cuts.

Fully automatic drilling up to Ø 40 mm and tapping up to M33



The fully automatic drilling solution provides a substantial added value for your production. Before the parts are cut, precise holes, threads and countersinks can be produced within the same cutting plan. For a smooth and fast tool change, the machine can be equipped with a tool magazine for 6, 8 or 16 tools.

High reliability even in a three-shift operation



Cutting is often the first step in many production processes, so reliability of the cutting machine plays a key role. For this reason, MicroStep machines are equipped exclusively with high-quality components and designed for long-lasting operation.

Rotator technology – the new standard in bevel cutting



The endless rotator enables high-quality weld edge preparation with bevels ranging up to 52° (plasma) or 65° (oxyfuel) on sheets, pipes, profiles as well as domes. The powerful and compact design ensures high precision and dynamics that allows even complex bevel contours to be cut in a reliable manner.

Additional Beveling Process



Parts with thicknesses so big that direct beveling is not possible can still have their edges beveled thanks to MicroStep's Additional Beveling Process (ABP). V-, Y-, X- as well as K-cuts are done via scanning and cutting in a precise and cost-saving way that eliminates the necessity of secondary processing on another machine.

3D pipe & profile processing up to Ø 1,000 mm



The pipe cutting option on MicroStep machines enables weld edge preparation on pipes and hollow sections, with diameters of pipes ranging from 30 to 1,000 mm.

Dome processing



The sturdy machine frame and gantry construction of MG series enables dome processing up to Ø 4,000 mm. Different types of tool stations provide a different extent of reach over the dome surface and thus offer various dome processing options.



Plasma rotator performing bevel cutting on a water table



Pipe cutting with an MG machine

The powerful drilling head enables drilling, tapping, and countersinking

Dome processing with a multi-functional MG cutting machine