



SERPANTINAS

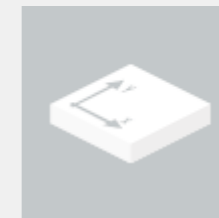
CNC METAL CUTTING SOLUTIONS FOR THE INDUSTRY

OFFICIAL MICROSTEP DISTRIBUTOR IN LITHUANIA

www.SERPANTINAS.com



Plates



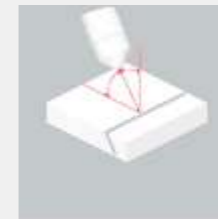
2D cutting



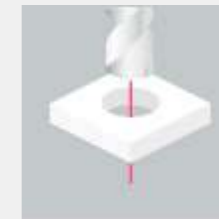
Pipes & profiles



Domes



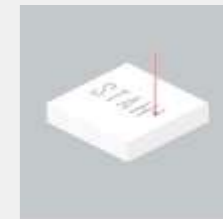
Bevel cutting



Drilling
Tapping
Countersinking



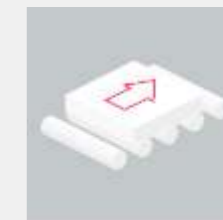
Beams



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.

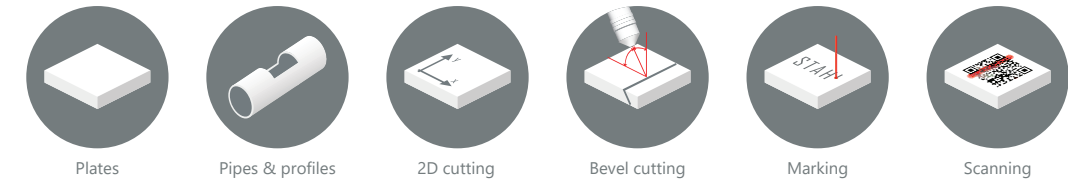
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MasterCut series

Versatile solution for your cutting tasks



Plasma

Oxyfuel

The **MasterCut series** is a versatile high-precision CNC cutting machine which can be applied throughout the industry reaching from small workshops to big factories.

The application range of the standard version with rails in the X direction dedicated to fully automated oxyfuel cutting or cutting with conventional plasma can be enhanced to a variety of high-precision plasma cutting applications including pipe, profile or elbow cutting and marking.

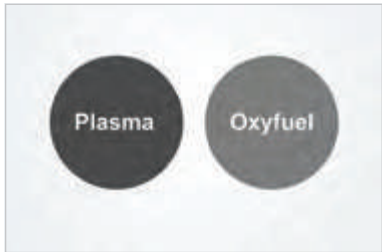
Adding a MasterCut plasma bevel head will allow the machine to perform a great portion of common bevel cutting jobs with bevel angles up to 50°. By default, the beveling system comes equipped with the patented auto-calibration system ACTG® that significantly improves precision and dimensional accuracy of the cutting process, eliminates tedious mechanical adjustments, and substantially increases productivity of the machine.





Flexible means of production for nearly any cutting task

- Broad range of processing possibilities – cutting of plates, pipes & profiles with plasma or oxyfuel as well as several marking options
- Generous gantry clearance for processing of higher parts
- Rigid steel gantry to ensure high precision and dimensional accuracy
- Long-term reliability in single- and multi-shift operation



Cutting with plasma up to 440 A and oxyfuel up to 200 mm

The machine offers excellent cutting results by utilizing both high-definition and conventional plasma sources, with an advanced height control based on proprietary adaptive algorithms backed by the ball screw actuated Z axis. A combination of plasma and oxyfuel cutting technologies along with extensive work area configurations make MasterCut a highly versatile production tool with an optimal price/performance ratio.



Bevel cutting up to 50° with the plasma bevel head for MasterCut

- V- and X-cuts as well as complex Y- or K-cuts up to 50°
- Fully-automatic compensation of potential mechanical imprecisions of the bevel head's geometry in the range of hundredths of a mm thanks to MicroStep's patented ACTG® technology
- Automatic compensation of bevel angle with the Adaptive Bevel Compensation feature (ABC)



Multi-tool operation with up to 6 oxyfuel torches

- Increase your productivity with parallel cutting operations
- Automatic spacing of slave tool stations (option)
- Individual selection of tool parameters to fit your requirements
- All tools controlled automatically from the iMSNC® control system



Pipe & profile cutting up to Ø 1,000 mm

- Enhance your production range by adding pipe and profile cutting option
- Convenient cutting program creation with MicroStep's 2D and 3D CAM software
- High precision and dimensional accuracy reduce post-processing costs
- If required, the pipe cutting channel can be covered with additional grates and used as extension of the cutting table including sideways fume extraction



Enhanced machine frame delivers even smoother operation

Because a robust machine construction is an important condition for excellent cutting results, in the latest generation of MasterCut the gantry supports have been extended by more than 60% in longitudinal direction (X axis), along with reinforcement of the gantry beam and redesigning of the drive system. Thanks to these measures, the positioning system is even more stable and lets the machine operate smoothly also with heavier equipment installed.



MasterCut with linear guidelines in the X-axis and a channel for pipe processing



Configuration of MasterCut machine with a bevel head, an oxyfuel torch and a punch marker



This pipe cutting device can process pipes up to Ø 300 mm