



SERPANTINAS

CNC METAL CUTTING SOLUTIONS FOR THE INDUSTRY

OFFICIAL MICROSTEP DISTRIBUTOR IN LITHUANIA

www.SERPANTINAS.com



Plates



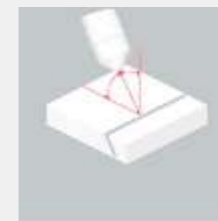
2D cutting



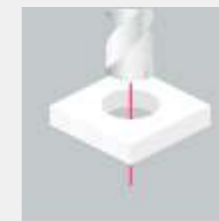
Pipes & profiles



Domes



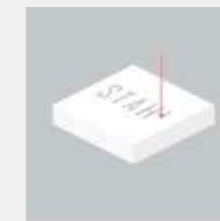
Bevel cutting



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.

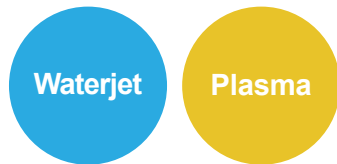
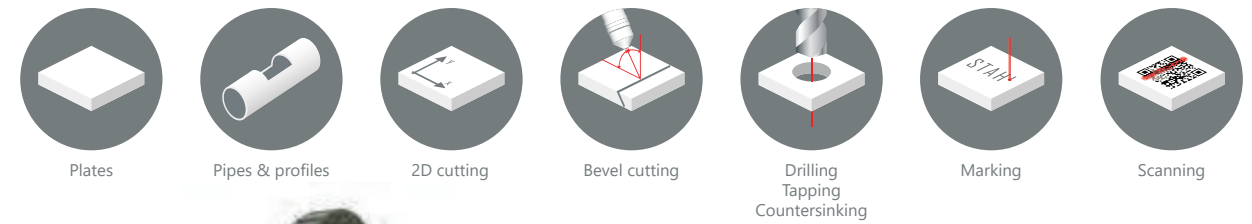
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AquaCut series

Multi-functional waterjet cutting machine

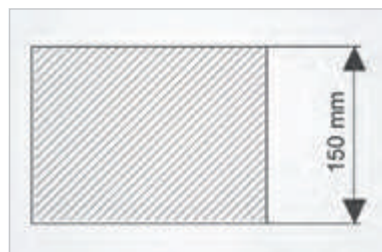


The **AquaCut** is a highly precise CNC waterjet cutting machine designed to process a wide variety of materials including those that cannot be subject to thermal or mechanical stresses.

Pure water or abrasive cutting can be applied, among others, to metal, stone, marble, armored glass, ceramics, plastics, wood, thick corrugated cardboard, foam materials and sandwich materials.

The machine can be equipped with a 5-axis waterjet rotator with ACTG® for **bevel cutting**, as well as combined with plasma, **pipe** and **profile** cutting or **tapping**. Other features include Additional Beveling Process (ABP) and **taper compensation** (ABC).

Fine contours and highly precise cuts up to 150 mm



- No thermal stress on the cut part
- Cutting of the finest contours
- Precision to the degree of hundredths of a millimeter
- Cutting of all materials (stone, steel, glass, rubber, wood, sandwich materials)
- High-pressure technology up to 6,200 bar

Adaptive Bevel Compensation (ABC)



In order to meet the requirements for high precision and/or perpendicularity of the cut parts, MicroStep's Adaptive Bevel Compensation (ABC) technology enables taper compensation in a range of $\pm 7^\circ$. The technology adjusts the bevel angles with speed to compensate the natural stream lag and taper of a water jet. The system also allows custom adjustment of the compensation values.

Bevel cutting up to 45° with ACTG®



- Fully automatic and highly precise bevel cutting up to 45°
- Auto-calibration of tool geometry (ACTG®) feature ensures high precision and reliability of bevel cutting with minimum downtimes for maintenance
- Smooth, yet dynamic operation thanks to AC drives
- Intuitive and simple programming of bevels including the ABP technology

Sludge removal conveyor



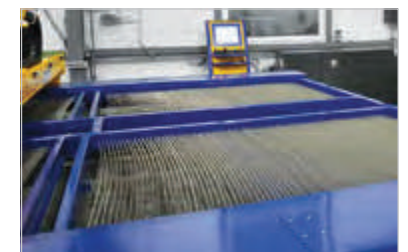
The cutting tank can be optionally equipped with an automatic cleaning system, either with a conveyor belt that carries the sludge to a sludge container at the end of the cutting table or with an automatic system for filtering out the abrasive.

Durable high-precision components



Rustproof chrome plating of linear guidelines helps to protect them against wear caused by abrasive and corrosion. In addition, bellows on all axes seal the guidelines against dust and humidity, substantially increasing their lifespan.

Optional water table designs



Depending on your requirements, different cutting table designs are available for the AquaCut series:

- Galvanized or stainless steel tanks
- Separate water tanks for pipe and profile cutting
- Custom designs for special requirements