



Waterjet Group

EcoCut

The economic entry to the world of waterjet cutting.



Nobody cuts it better.

Your lasting partner of choice

With our four locations in Austria, Germany, Switzerland and France, the STM Waterjet Group is the partner near you. With over 30 years of experience in the cutting technology, STM pays particular attention to innovative modular system technology in connection with connectivity, intuitive operation and high availability of the STM waterjet cutting systems.

Service has priority

We are also there for you after you have purchased your waterjet cutting system. Our high priority of the service concept has motivated us to found „RWS – Real Waterjet Service GmbH“. As a premium partner of STM Waterjet, customer service comes first at RWS. RWS will be your long-term partner from the delivery of the machine.



Robust construction

A long lasting and high quality design in stainless steel and aluminium are the focus of STM waterjet cutting systems. A modern industrial design paired with maximum functionality is characteristic of the extremely low vibration construction.

STM SmartCut cutting software

The easily understood STM SmartCut cutting software can be adapted to individual requirements using modular upgrades. Within the graphic user interface all parameters are able to be intuitively set and dwg, dxf, step or iges files can be directly imported.

Modular structure

The modular system with its use of standard components enables STM waterjet cutting systems to be adapted to your requirements and upgraded.

Profitable – with warranty!

The unique STM Care package extends the warranty for STM waterjet cutting systems and highpressure pumps from the standard 2 years up to 8 years. In addition to being easy to maintain and resistant to wear, with STM you are also opting for a high-performance overall package with low operating costs and sustainable options for economical water treatment and abrasive desludging.

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STM *EcoCut* waterjet cutting systems are reliable and low-maintenance complete systems with an extremely attractive price-performance ratio. They provide economic entry to the world of waterjet cutting. The integrated cleaning lance system enables efficient flushing of up to 80 % of the abrasive sand from the cutting tank. The systems are easy on resources and excel with exceptionally low power, water and air consumption.

- Lightweight construction in aluminium and stainless steel
- Space saving design with a total height of less than 2.1 m (incl. high pressure tubing and signal light)
- Robust toothed rack drive for little wear
- Workspace accessible from three sides
- Marking of workpieces available as standard
- Above water and underwater cutting possible
- Industrial grid workpiece supports up to 600 kg/m²

Cutting technology

STM *EcoCut* waterjet cutting systems are configured for operation with pure water as well as for abrasive cutting. For waterjet cutting the water is forced through a nozzle with a pressure of up to 6.000 bar

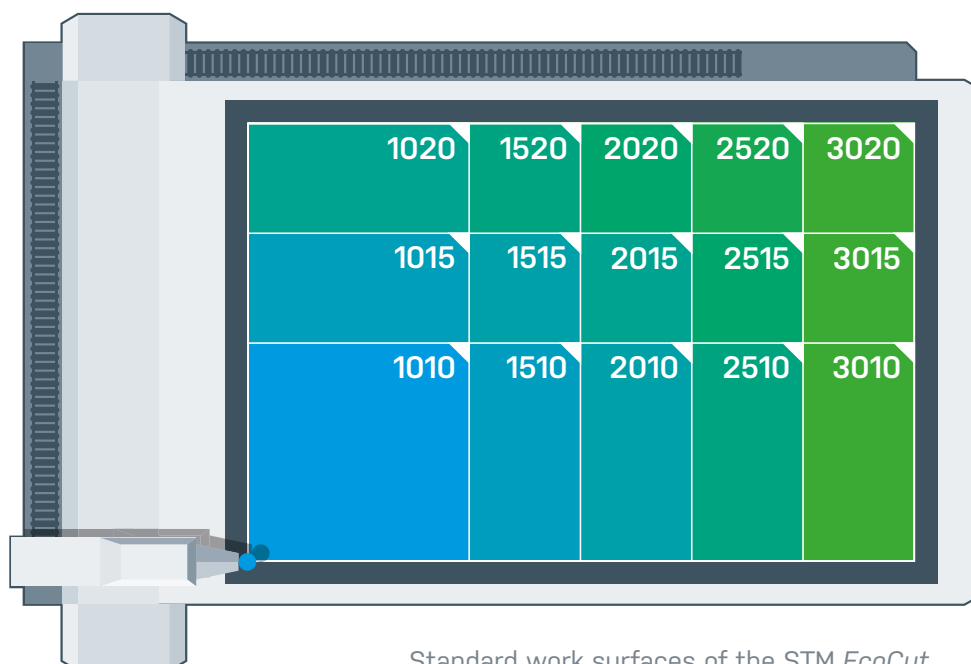
from which a focussed waterjet is emitted at 2- to 3-fold the speed of sound (Mach). To increase the kinetic energy, abrasive (granite sand) is added behind the water nozzle to cut harder materials.

Work surface sizes

The EcoCut model is as standard available with the following work surfaces: min. 1 m x 1m / max. 2 m x 3 m

However, the unique STM modular system for waterjet cutting systems stands for maximum flexibility and allows each customer to find a customised solution with the desired machine size.

Other sizes beyond those listed here are available on request!



Standard work surfaces of the STM *EcoCut*



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Travel speed	max. 10 m/min	XY-positioning accuracy	± 0.10 mm (per meter bei 20 °C)
Z-axis clearance	200 mm	XY-repeat accuracy	± 0.08 mm (per meter bei 20 °C)
Workspace	min. 1 m x 1 m / max. 2 m x 3 m		

Included in the EcoCut package:

- ▶ High pressure pump with a pressure intensifier between 11/75 kW or 4,000/6,000 bar
- ▶ Welded rust-proof machine frame of aluminium and stainless steel
- ▶ Industrial grid workpiece supports up to 600 kg/m²
- ▶ Ergonomical control unit (optional with wheels)
- ▶ STM SmartCut waterjet cutting software
- ▶ Covered and encapsulated linear guides
- ▶ CNC control unit and PC interface
- ▶ Supply tank for 450 kg abrasive
- ▶ Brushless servomotors
- ▶ CNC Z-axis

Options:

- ▶ Automatic desludging: STM BasicClean or OneClean abrasive desludging system
- ▶ Manual rotatable holder for cutting valve for chamfered cuts to 48°
- ▶ Additional cutting heads on a beam
- ▶ STM Edge Tracker positioning laser
- ▶ Supply tank for 1,650 kg abrasive
- ▶ Adjustable feet for cutting tank
- ▶ Precision levelling wedge
- ▶ Pneumatic drilling unit
- ▶ Water level control
- ▶ Pressure bag filter

STM Waterjet Group

STM is a leading provider of waterjet cutting systems. The company has four locations in Eben im Pongau (Austria), Schweinfurt (Germany), Reiden (Switzerland) and Frans (France) with a total of 70 employees.

The company has four locations in Eben im Pongau (Austria), Schweinfurt (Germany), Reiden (Switzerland) and Frans (France) as well as the service office "RWS – Real Waterjet Service" based in Schlußberg (Austria). For more than 30 years, the long-established company has developed pioneering integrated manufacturing solutions – particularly for the steel, aluminium, metal, plastic, stone and glass industry. These are characterized above all by efficiency, ease of operation and wear resistance. In development, STM pays particular attention to innovative modular system technology in combination with

connectivity, intuitive operation and high availability of STM waterjet cutting systems. STM also stands for standard CNC controlled modular portal systems in all dimensions and for all applications. STM systems cover all currently possible cutting tasks in the 2D and 3D range and are characterised above all by their cost-effectiveness and standard of quality. The brand manufacturer thus ensures that its individual manufacturing processes are continually matched to the latest requirements of its customers. Since 2018, the company has also held the sole production rights to BYSTRONIC waterjet cutting systems. STM emphasised the importance of after-sales service by founding RWS – Real Waterjet Service GmbH. As an STM Premium Partner of the STM Waterjet Group, service for STM customers comes first. RWS is the partner and companion from the delivery of the machine.

Our solution:
Partnership, precision and performance

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