



Waterjet Group

STM Cube

The waterjet cutting system for maximum safety and cleanliness.



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.



Quiet cutting

A hood construction helps achieve a noise insulation of 10 %. STM Cube waterjet cutting systems are about 8 dB quieter compared to other systems.

Increased safety

The STM *Cube* waterjet cutting system creates maximum safety through complete encapsulation – not only for research and educational institutions. With its fully enclosed design, the STM Cube perfectly complements any machine park in mechanical production, without the need for free-standing safety technology.

Compact dimensions

The STM *Cube* can also be set up in small production buildings without any problems. The waterjet cutting system convinces with very small space requirement.

Optimum accessibility

The working area is ideally accessible via the front door. Motorisation of the door ensures optimum ease of operation and loading. Loading by crane is also possible.

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The waterjet cutting system for maximum safety and cleanliness. STM *Cube* waterjet cutting systems have all the technical specifications of *EcoCut* or *MasterCut* incl. a hood cover and thus provide even more safety and convenience. The encapsulation provides noise insulation, maximum safety and an ideal splash guard. It is therefore the perfect system, for example, for research and educational facilities or cutting environments with increased safety requirements. Very good loadability is provided by retracting the cover.

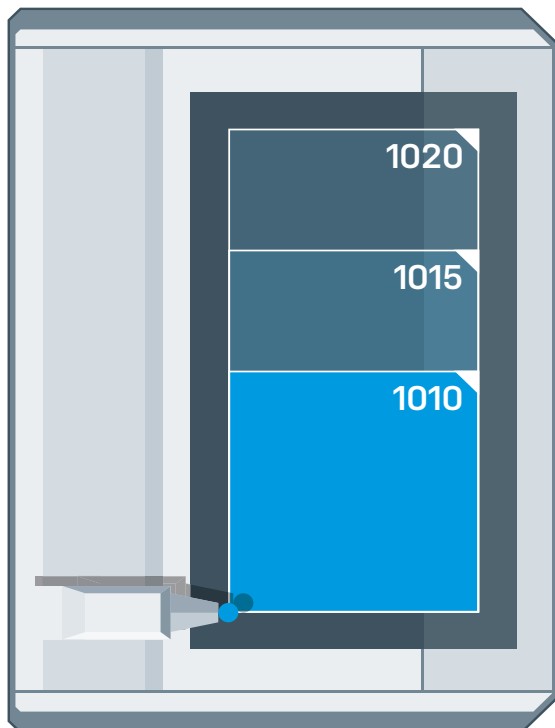


Experience flexibility.

STM waterjet cutting systems can cut almost all solid materials. The spectrum ranges from metals, stone, tiles, glass and wood all the way to foams, rubber, plastics and foodstuffs. STM waterjet cutting systems can be equipped with either a pure water or an abrasive cutting head, depending on the requirements.

— pure water	— abrasive
plastic	copper
foam	aluminium
stone	steel
glass	wood
carbon	brass

Work surface sizes



Standard work surfaces of the STM *Cube*

The STM *Cube* model is as standard available with the following work surfaces:
1 m x 1 m; 1 m x 1,5 m; 1 m x 2 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!



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Work surfaces e.g.	1.05 m x 1.05 m / 1.05 m x 1.55 m / 1.05 m x 2.05 m		
EcoCube version:			
Travel speed max.	10 m/min	Positioning accuracy	± 0,10 mm (per metre at 20 °C)
Z-axis clearance	100 mm	Repeat accuracy	± 0,08 mm (per metre at 20 °C)
MasterCube-version:			
Travel speed max.	15 m/min	Positioning accuracy	± 0,05 mm (per metre at 20 °C)
Z-axis clearance	100 mm	Repeat accuracy	± 0,03 mm (per metre at 20 °C)

Included in the STM Cube package:

- ▶ High-pressure pump with pressure intensifier principle between 11/75 kW or 4,000/6,000 bar
- ▶ Welded and rust-free machine frame made of aluminium and stainless steel
- ▶ Heavy-duty supports for workpieces up to 1,000 kg/m² (MasterCube version)
- ▶ Automatic safety bonnet with shatterproof viewing window
- ▶ Premium guide Y-axis, premium gear (MasterCube version)
- ▶ Cutting basin with industrial grid (EcoCube version)
- ▶ STM SmartCut waterjet cutting software
- ▶ STM Edge Tracker positioning laser
- ▶ Supply tank for 450 kg abrasive
- ▶ CNC control and PC interface
- ▶ Brushless servo motors
- ▶ Control console
- ▶ CNC Z-axis

Options:

- ▶ STM TAC 12° angle error compensation cutting head (MasterCube)
- ▶ Automatic desludging: STM BasicClean or OneClean abrasive desludging systems
- ▶ Manual cutting valve rotatable holder for bevelled cuts up to 48°
- ▶ Additional cutting heads on cantilever
- ▶ Pneumatic drill spindle
- ▶ Supply tank 1,650 kg
- ▶ 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 Schläßberg (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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