



Waterjet Group

# MasterCut

The allround system for sophisticated requirements.



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.



## Maximum process reliability

The automatic scanning of the workpiece as well as the collision protection enable safe working. STM waterjet cutting systems are able to mark as standard and with the use of the positioning laser the workpiece can be easily set up.

## 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.

## Top ease of use

STM waterjet cutting systems are accessible from three sides. Control is made via a Windows 10 desktop PC. Other features such as the manual control also enable maximum ease of use.

## Profitable – with warranty!

The unique STM Care package, the extends warranty for STM waterjet cutting systems and high-pressure 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.

# MasterCut

The all-round system for sophisticated requirements.

STM *MasterCut* waterjet cutting systems are the perfect all-rounders for sophisticated cutting tasks. STM *MasterCut* waterjet cutting systems provide the possibility to make demanding 2D cuts, optional with a STM TAC 12° head for automatic angle compensation. The long-lasting and high-quality design in stainless steel and aluminium are the focus of STM waterjet cutting systems. The concealed linear guides without bellows and a high-pressure tu-

bes carried along in the axes are characteristic. The fully digital drive consists of a brushless AC servo motor with multi axes NUM CNC control. The associated software runs on a standard Windows PC. 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 premium toothed rack drive
- Marking of workpieces available as standard
- Workspace accessible from three sides
- Above water and underwater cutting possible
- Heavy duty load supports for workpieces up to 1,000 kg/m<sup>2</sup>



## Work surface sizes

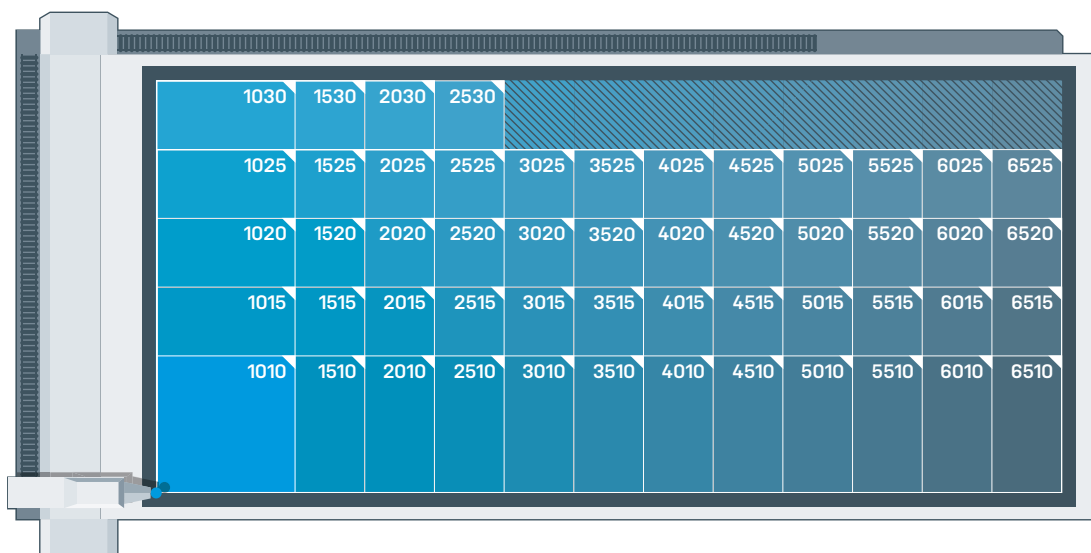
The MasterCut model is as standard available with the following work surfaces:

Vertical model: min. 1 m x 1 m / max. 6.5 m x 2.5 m

Horizontal model: min. 1 m x 1 m / 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 MasterCut



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Travel speed	15 m/min	XY-positioning accuracy	± 0.05 mm (per meter at 20 °C)
Z-axis clearance	200 mm	XY-repeat accuracy	± 0.03 mm (per meter at 20 °C)
Workspace	portrait format: min. 1 m x 1 m / max. 6.5 m x 2.5 m landscape format: min. 1 m x 1 m / max. 2.5 m x 3 m		

### Included in the MasterCut package:

- ▶ High pressure pump with a pressure intensifier between 11/75 kW or 4,000/6,000 bar
- ▶ Premium guide X- & Y-axis with premium ball bearing carriage system
- ▶ Welded rust-proof machine frame of aluminium and stainless steel
- ▶ Heavy duty load supports for workpieces up to 1.000 kg/m<sup>2</sup>
- ▶ Ergonomical control unit (optional with wheels)
- ▶ STM SmartCut waterjet cutting software
- ▶ STM Edge Tracker positioning laser
- ▶ 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 separate Z-axis or on a beam
- ▶ STM TAC 12° angle compensation cutting head
- ▶ Supply tank for 1,650 kg abrasive
- ▶ Adjustable feet for cutting tank
- ▶ 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 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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