

Series SM

Flexibility and accessibility

SM series machines have the cutting heads on a mechanical arm which makes the machine more solid.

This cutting system provides an easy access to the working area, so it is not required a lot of space for its installation.

Technology

Waterjet cutting systems developed by **TCIcutting** combine experience and technology with the properties of water under high pressure. Therefore, these systems allow unique cutting of a wide range of materials and thicknesses.

Cuts that are impossible to make with other methods are easily cut with a waterjet as it uses speeds that can reach up to three times the speed of sound and pressure higher than 6,500 bars.

Cutting systems offered by **TCIcutting** are the result of a meticulous and individualised study of each of the components, in order to obtain the highest quality of the final product.

Technological advantages

TCIcutting adds to the technological advantages its experience and it achieves:

- The most versatile cutting systems in the market. They can cut the whole range of materials, including painted surfaces. These machines can cut everything.
- Low cutting temperature. This avoids thermal alterations and residual stresses.
- Clean cut that does not damage the material making finishing work unnecessary.
- The cutting surface does not bend or crack.
- Optimal usages of raw material reducing negligible shrinkage.
- High Precise tolerance.
- Different kinds of cutting simultaneously.
- Very cost-effective, both in short series and in repeatability long series.
- Reduced operating costs.



SM-M[®] (modular) series



TCIcutting's SM-M machines allow both the installation of a second separate table, as well as the extension of the cutting table, thus maximising performance.

The SM-M series can be fully enclosed, allowing for clean and quiet work conditions while occupying a minimum amount of space.

MODELS	DIMENSIONS			SPECIFICATIONS	VALUES
SM-M 3015	X= 3.000 mm.	Y= 1.500 mm.	Z= 200 mm.	Maximum piece thickness	200 mm.
SM-M 3020	X= 3.000 mm.	Y= 2.000 mm.	Z= 200 mm.	Maximum load allowed	790 Kg/m ²
SM-M 4020	X= 4.000 mm.	Y= 2.000 mm.	Z= 200 mm.	Number of cutting heads	1 to 2
SM-M 6020	X= 6.000 mm.	Y= 2.000 mm.	Z= 200 mm.	Maximum positioning speed	60 m./min.
				Maximum cutting speed	20 m./min.
				Machine tolerance according to VDI/DGQ 3441	± 0,05 mm./m.
				Repeatability accuracy	± 0,025 mm/m.

Advantages and characteristics.

- Vacuum positioning speeds of up to 60,000 mm/min
- Smart processing system to move up to 4 independent cutting heads, which allows for the maximum use of materials
- State of the art, real-time machine consumables tracking software that allows for preventative maintenance and prevent downtime
- Fully automated machine sludge cleaning system
- CNC, intensifier, peripherals and control box preprotected from the work area of the machine
- Materials can be both front and side loaded
- Stand-alone operation system
- Collision avoidance system with digital sensitivity regulation
- Specific software for the rapid formulation of cutting budgets
- Automatic software management and spare parts request with all the valuations included
- On-line technical service provided by mechanical engineers
- TCIcutting team for mechanical engineers industrial electronic and automatic control systems and industrial design engineers.
- Installation and start-up in 7 days