

CMS is part of SCM Group, a technological world leader in processing a wide range of materials: wood, plastic, glass, stone, metal and composites. The Group companies operating throughout the world are reliable partners of leading manufacturing industries in various market sectors, including the furniture, construction, automotive, aerospace, ship-building, and plastic processing industries. SCM Group coordinates, supports and develops a system of industrial excellence in 3 large highly specialized production centers employing more than 4,000 workers and operating in all 5 continents. SCM Group can offer the most advanced expertise worldwide in the design and construction of machinery and components for industrial processing.

CMS SpA manufactures machinery and systems for processing composite materials, carbon fiber, aluminum, light alloys, plastic, glass, stone, and metals. It was established in 1969 by Pietro Aceti, with the aim of offering customized and state-of-the-art solutions based on an in-depth understanding of customers' production needs. Significant technological innovations originating from substantial investments in research and development and take-overs of premium companies have led to constant growth in the various sectors.

ACTAOX-0823E

ADVANCED MATERIALS



advanced materials technology

**CMS Advanced Materials Technology** is a leader in the field of numerically controlled machining centers for processing advanced materials: composites, carbon fiber, aluminum, and light alloys. Substantial investments in research and development have allowed the brand to always be on the forefront of cutting edge design, with machines that ensure best-in-class performance in terms of accuracy, execution speed and reliability to meet the needs of customers operating in the most demanding sectors.

Since the early 2000's, **CMS Advanced Materials Technology** has established itself as a technology partner in areas of excellence such as aerospace, aviation, automotive, racing boats, Formula 1, and the most advanced railway industry.

scmgroup | industrial machinery and components

Cms | your technology partner



tao-x  
High-performance moving bridge machining center



The technical data is not binding and CMS reserves the right to change it without notice.

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# tao-x

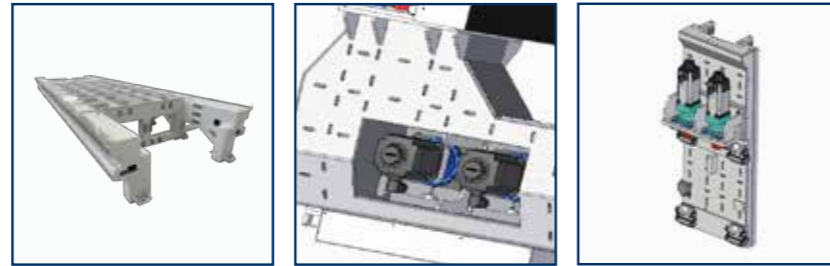
## TECHNOLOGICAL BENEFITS

The CMS tao-x machining center is designed to machine **aluminum plates, light alloys, titanium and advanced composite materials.**

**Precision mechanics, automotive and aerospace** are just some of the sectors that can benefit most from the technology of this new machining center.

### MAIN FEATURES

- Flexibility
- Excellent holding power of the clamping systems
- Precision
- Very high finishing quality
- Dynamic balance



The Tao-x is equipped with **double rails on both sides for the bridge movement.** The rails are anchored to a massive base that **guarantees long-term stability, balance and consistency.** The portal can also be configured with a **gantry system with dual drive on the X axis and dual drive on the Y axis to completely eliminate backlash** and achieve category-leading performance



## FOR CMS YOUR SAFETY IS IMPORTANT!

Tao-x is designed to the **highest safety standards** to give you and your operator complete peace of mind.

The machine is equipped with **perimeter guards with thick panels and polycarbonate windows, and systems that comply with EN ISO 16090-1:2018 and EN ISO 14120:2015 safety standards.**

AXES	X	Y	Z
WORKING RANGE	3060-4080 mm	2050 mm	up to 250 mm
SPEED	up to 80 m/min	up to 80 m/min	30 m/min
ELECTROSPINDLES	up to 30 kW, synchronous or asynchronous - 24,000 rpm		
CNC	Fanuc, Siemens		
TOOL CHANGE	up to 71 positions		
VACUUM	up to 16 vacuum zones		

Electronic hood with metal channels and Quick-R ring for quick replacement of the straps/brushes



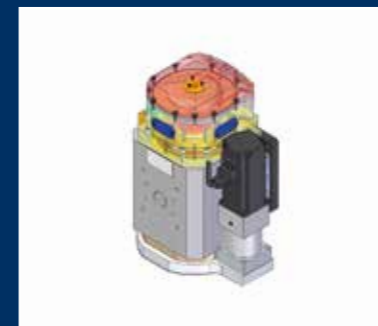
Tool magazines up to 71 positions



Vertical table for machining the side of the workpiece



Spindles up to 30 kW (opt. 4th axis) with internal and external path to ensure MQL



Coatings on all guides and bellows to protect mechanical parts



Different tables available for maximum flexibility: nesting, ViilMill, VACMAT

