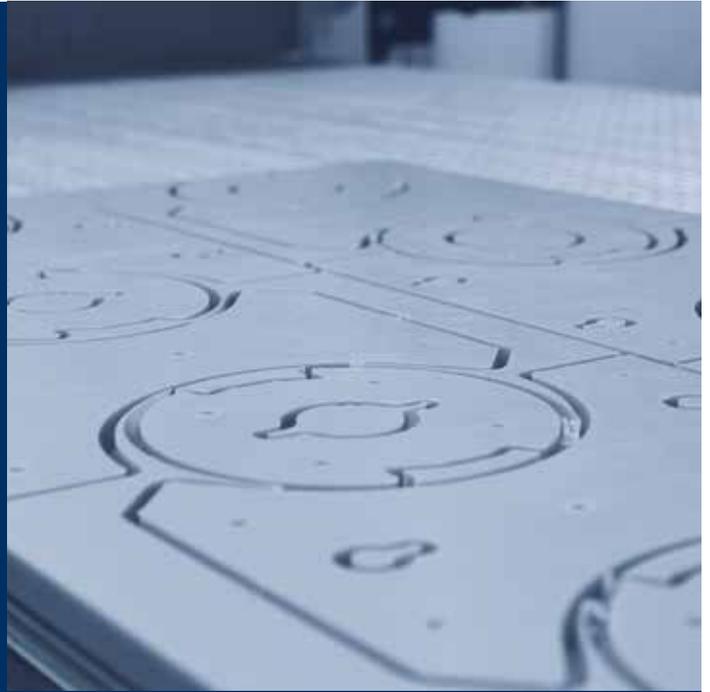


cms tracer 200x/300x

3/5-axis CNC machining centers
(Z clearance up to 500 mm)



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.



CMS Plastic Technology produces CNC machining centers, panel saws and thermoforming machines for processing plastic materials, offering technologically advanced solutions. The brand was established thanks to the winning synergy between the technical and industrial experience in thermoforming of the long-standing company Villa, founded in 1973, and the well-established know-how of CMS in milling. Thanks to constant investments in research and innovation, CMS Plastic Technology is recognized as a single partner for the entire process: from thermoforming to trimming, up to the production of models and molds, to guarantee maximum productivity.

CMS Plastic Technology is a leader in several sectors such as automotive, aerospace, earthmoving machines, caravans, buses, railway industry, bathtub production, technical articles, visual communication, mechanical components and packaging.



cms tracer 200x/300x

Adaptable.
Global.
Innovative.
Lean.
Efficient solutions.

The **AGILE** way for
FLAT PLASTIC cutting.

TECHNICAL FEATURES OVERVIEW	4-5
SAFETY SYSTEMS	6-7
HIGH-LEVEL NESTING AND MORE	8
TOOL MAGAZINES	9
WORKTABLES	10-11
LOADING AND UNLOADING	12-13
OVERALL DIMENSIONS	14
TECHNICAL DATA	15
DIGITAL SERVICES	16-17
THE RANGE	18-19

TECHNICAL FEATURES OVERVIEW

cms tracer 200x/300x
3/5-axis CNC machining centers (Z clearance up to 500 mm)

TECHNOLOGICAL BENEFITS FOR MACHINING PLASTICS

The new generation of 3- and 5-axis nesting CNC machining centers for plastic machining. Cell version models with automatic loading and unloading belts are also available .

KEY BUYER BENEFITS

- + "All in one" 3- and 5-axis machining center for machining **plastics** and **advanced materials**, with technical solutions dedicated to **advanced nesting** and **engineering parts**
- + Wide range of **best-in-class** heads and spindles for all machining needs up to 15 kW and 24,000 rpm
- + **Unparalleled optimization of overall dimensions** thanks to the availability of "pro-speed" and "pro-space" solutions
- + Worktable with **unique vacuum management** solutions, thanks to the dynamic **X-Vacuum** system

Console with built-in PC, an industrial PC with 21.5-inch full HD multi-touch color display, on a support base with wheels so that the console can be moved easily around the machine perimeter.



Faster work cycles with the **FAST** magazine of up to 12, 14 or 18 positions.

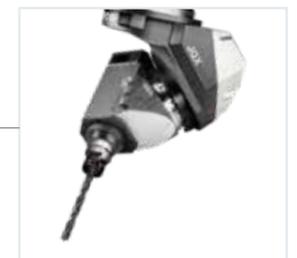


Tools always available thanks to the **R16** rear storage .



Maximum effectiveness in all work situations

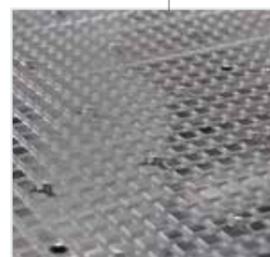
The **presser roller** solution provides perfect clamping of workpieces such as plastic strips and profiles, small parts made by nesting and stacked panels. In general, it offers perfect clamping under conditions in which a vacuum would not hold well. For machining processes that do not require them, the rollers are disabled without affecting the machine performance.



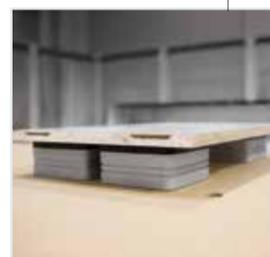
3-, 4-, 5-axis main electrospindle.



Everything at your fingertips with the **TECPAD** remote control with 7" color touch-screen.



Worktables made of "PHE" (Phenolic High Efficiency) and **"HE"** (High Efficiency) are robust, practical and non-deformable.



Wide range of specific suction cups for both HE beds and beds with support panels.



TRB magazine with 11, 14, 16 and 19 positions.

SAFETY SYSTEMS

cms tracer 200x/300x
3/5-axis CNC machining centers (Z clearance up to 500 mm)

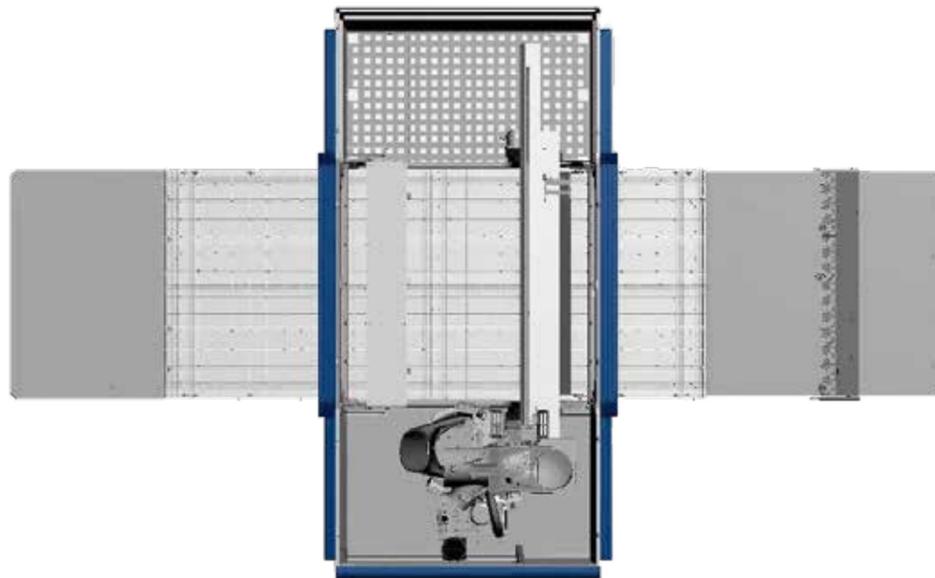
GUARANTEED SAFETY: BUMPER PROTECTOR

Work in complete safety with the bumper guard system, which stops the machine only in the event of accidental contact by the operator.



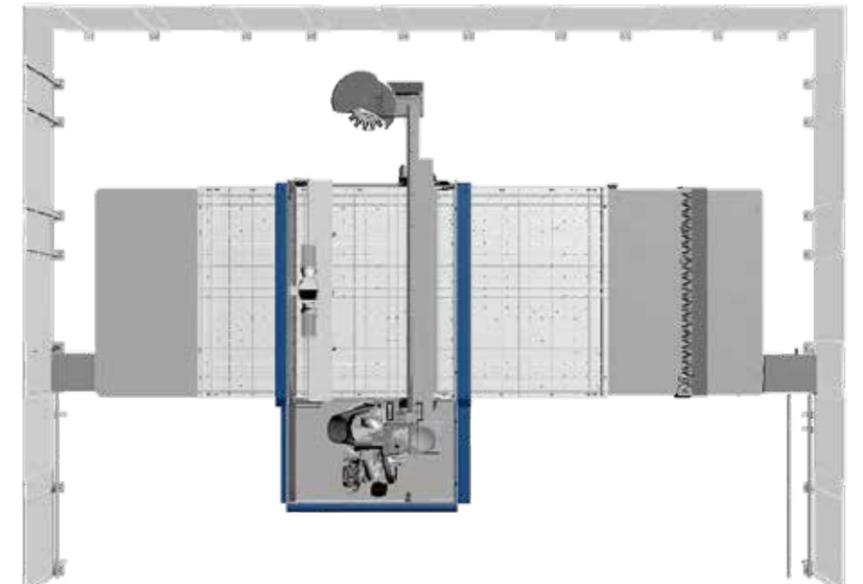
MINIMUM FOOTPRINT, MAXIMUM SAFETY AND FLEXIBILITY: PRO-SPACE PROTECTION

The absence of perimeter guards allows access to the worktable from all sides of the machine, and controls located on both the rear and the front means that panels can be loaded and unloaded from both sides. The safety system allows the machine to be used in the X-direction at a forward speed of up to 25 m/min.



COMPLETE FREEDOM AND HIGH PRODUCTIVITY: PRO-SPEED PROTECTION

Protection system for using the machine at the maximum forward speed. The machine automatically reduces speed when the operator enters the loading zone bounded by the front photocell barrier; it returns to full speed as soon as the operator leaves the loading zone.



HIGH-LEVEL NESTING AND MORE FOR MACHINING PLASTICS

THE JQX ELECTROSPINDLE (Just Quality eXtreme) with 5 axes, direct-drive transmission and up to 12 kW power guarantees maximum machining freedom and absolute quality when machining engineering parts. All this allows the tracer 300x to cover both nesting and 5-axis machining needs with maximum performance.



The 0°-90° blade assembly easily makes cuts or grooves in the X and Y directions.



Increased efficiency and reduced working time with the additional milling unit of up to 5.4 kW.

TOOL MAGAZINES

cms tracer 200x/300x
3/5-axis CNC machining centers (Z clearance up to 500 mm)



* For all versions available "Pick-up" storage anchored to the movable beam. The ideal setup for the use of bulky tools and angular transmission heads.



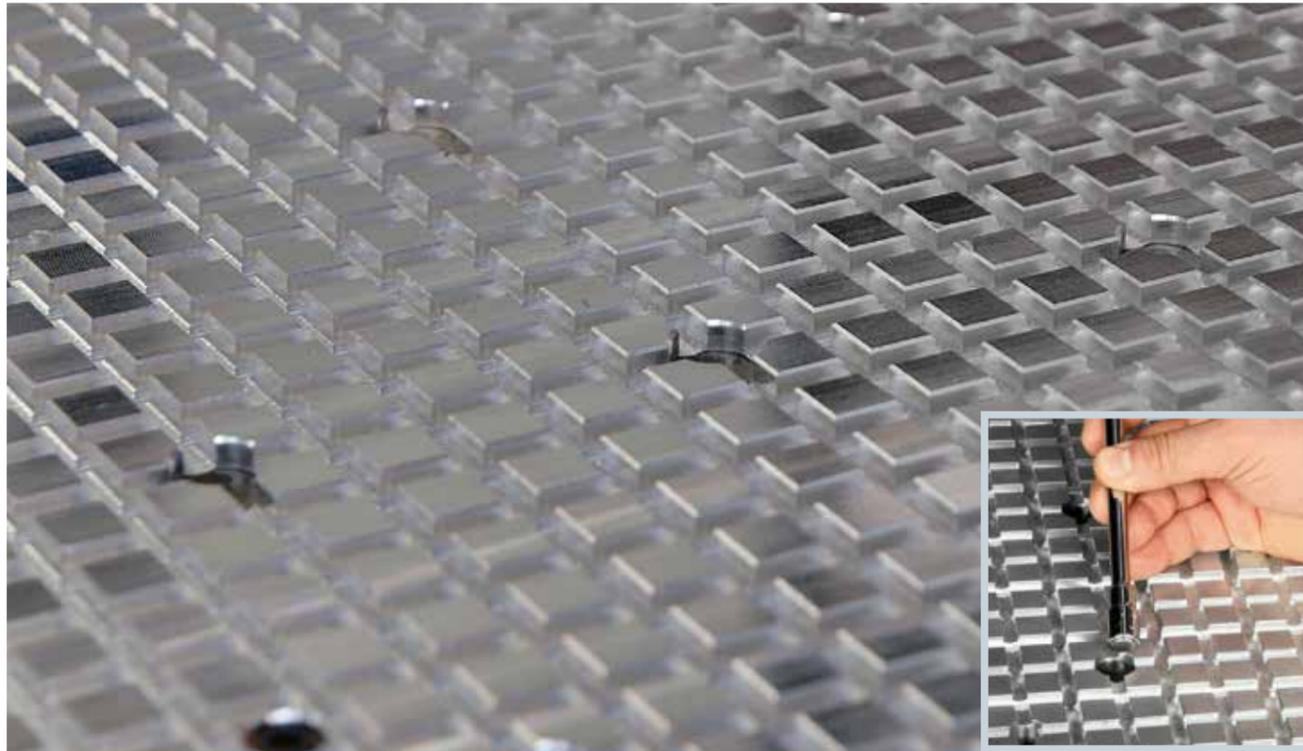
TRB side magazine with up to 19 positions.



TOOL LENGTH SENSOR
On the side of the base automatically measures the tool length.



Many tools always available thanks to the R16 rear storage.



AIMED AT EFFICIENCY AND SAVINGS: "HE" WORKTABLE (High Efficiency)

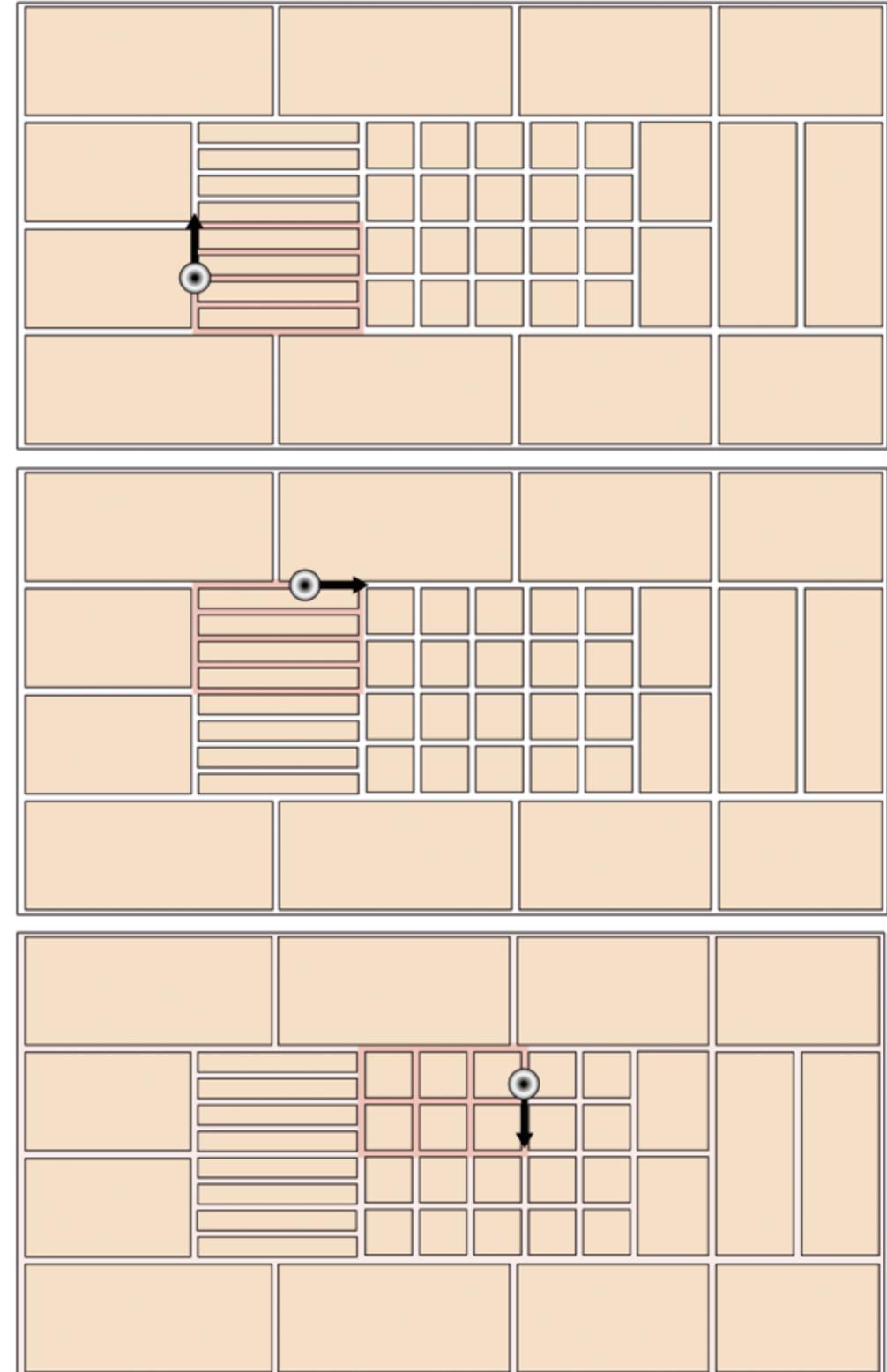
A rolled aluminum frame makes the worktable sturdy, practical and non-deformable. Easy and fast tooling with the magnetic vacuum shut-off system: in just a few seconds the vacuum is directed only to the workpiece positioning area.



Maximum workpiece holding only where needed: 2 to 30 vacuum zones, depending on the bed size.

X-VACUUM

Maximum vacuum effectiveness for processing small parts or highly breathable materials.

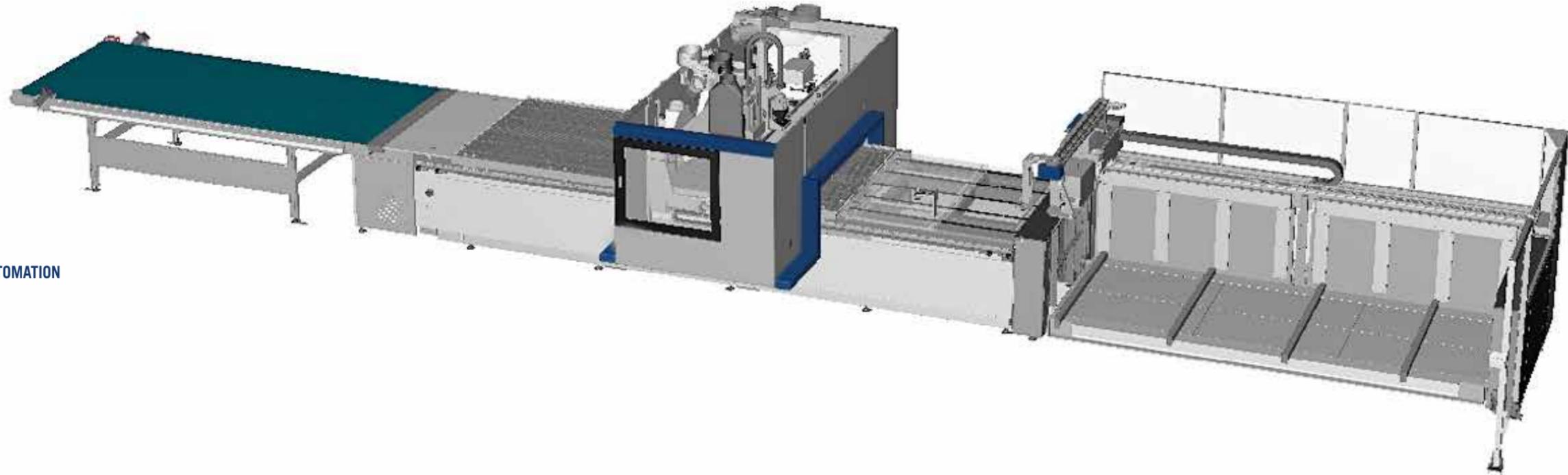


The vacuum is concentrated in the area of the worktable actually used.

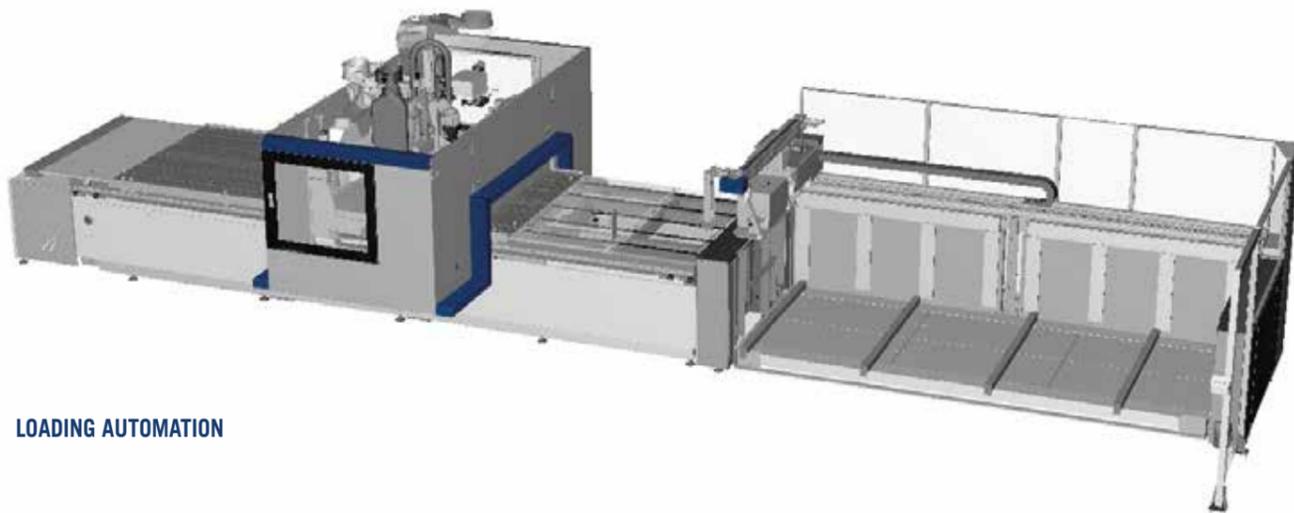
LOADING AND UNLOADING

cms tracer 200x/300x
3/5-axis CNC machining centers (Z clearance up to 500 mm)

Machines available with nesting cell configurations with loading elevators and unloading belts (loading only or unloading only versions are also available), as well as left and right versions.



LOADING/UNLOADING AUTOMATION



LOADING AUTOMATION

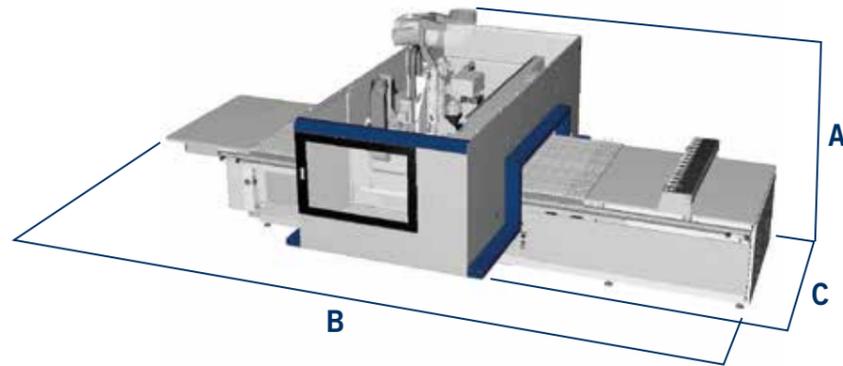


UNLOADING AUTOMATION

OVERALL DIMENSIONS

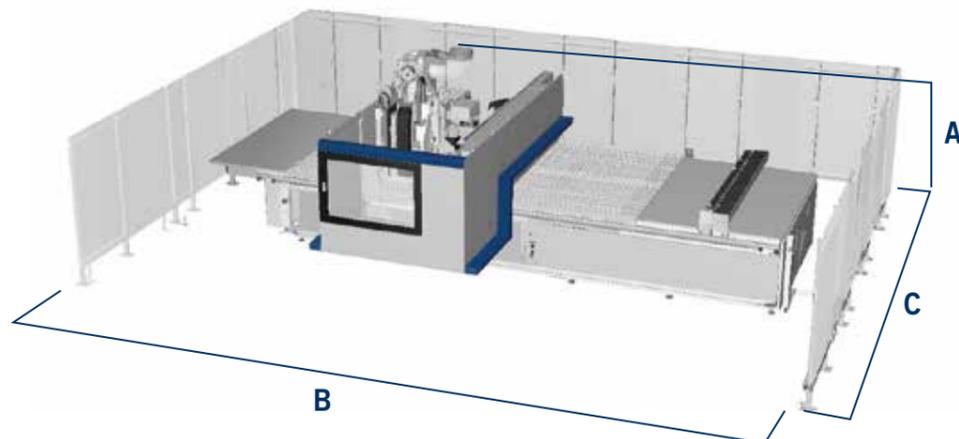
* Including operational space

STAND-ALONE		A	B	C
cms 200x/300x 1224	mm	2610/2790	6110/6350	3965/4465
cms 200x/300x 1531	mm	2610/2790	6710/6950	4265/4765
cms 200x/300x 1536	mm	2610/2790	7310/7550	4265/4765
cms 200x/300x 1836	mm	2610/2790	7310/7550	4565/5065
cms 200x/300x 2231	mm	2610/2790	6710/6950	4885/5385
cms 200x/300x 2243	mm	2610/2790	7910/8150	4885/5385



* Including operational space

STAND-ALONE		A	B	C
cms 200x/300x 1224	mm	2610/2790	6570	4190/5060
cms 200x/300x 1531	mm	2610/2790	7170	4490/5360
cms 200x/300x 1536	mm	2610/2790	7770	4490/5360
cms 200x/300x 1836	mm	2610/2790	7770	4790/5660
cms 200x/300x 2231	mm	2610/2790	7170	5110/5980
cms 200x/300x 2243	mm	2610/2790	8370	5110/5980



TECHNICAL DATA

cms tracer 200x/300x
3/5-axis CNC machining centers (Z clearance up to 500 mm)

TRACER		200x	300x
AXES			
"PRO-SPACE" X-Y axis vector speed	m/min		84
"PRO-SPEED" X-Y axis vector speed	m/min		113
Workpiece Z clearance	mm	150	180
MILLING UNIT			
Motor power (up to)			
3-4 axes	kW (hp)		15 kW (20.5)
5 axes		-	13.5 (18.4)
Rotation speed (max.)	rpm		2400
Tools available in the magazine (up to)	positions	38	53
DRILLING UNIT			
Vertical spindles (max.)	no.		21
Horizontal spindles (max.)	no.		12
Rotation speed (max.)	rpm		8000
Integrated X blade, diameter	mm		125
INSTALLATION			
Intake air consumption	m ³ /h		4430
Air intake speed	m/sec		25
Intake port diameter	mm		250



Maestro cnc

Office, the Maestro cnc design and programming system ensures that milling, drilling, cutting, etc. machining processes can be programmed quickly and easily.

This is due to the 3D graphical representation of the workpieces and the support provided by the ready-to-use apps and macros to create any machining process with a click of the mouse. Another click and the CNC programs are generated automatically.

SOFTWARE

OFFICE



Maestro active cnc

Maestro active is our new interface. An operator can easily guide different machines as the Maestro active interface software maintains the same look&feel, icons and approach to interaction.

EASE OF USE

The new interface has been specially designed and optimized for immediate use via a touch screen. Graphics and icons have been redesigned to make navigation simple and comfortable.

ZERO ERRORS

Improved productivity with built-in help and recovery procedures that reduce the possibility of operator error.

SOFTWARE

FACTORY

Maestro cnc

ADDITIONAL FUNCTIONS

THE SOFTWARE THAT MAKES WORK EASIER

CAD/CAM programming software for designing any production process. Developed in the Windows® environment, this advanced, simple and user-friendly sketching environment provides customers with all the tools they need for drawing parts and arranging them on the worktable, and managing the tools and related machining, all in a perfectly integrated and high-performance context, making programming very easy.



Maestro pro view - Unique for 3D simulation

3D simulator that gives the users a three-dimensional model of their machine in order to view the machining processes that will be performed during production in advance on their PC in the office.



Maestro 3d - Unique for creating 3d objects

Integrated module for programming three-dimensional objects on 5-axis machining centers.



Maestro apps - Unique for know-how

Maestro apps is a library of immediately available and easy-to-use programming functions, developed specifically for machining parts from plastics.



Maestro msl connector - Full integration

Connect with third-party design software.

Maestro active cnc

REVOLUTIONARY INTERACTION WITH YOUR CMS MACHINE TOOL FOR MACHINING PLASTIC

MAXIMUM CONTROL OF PRODUCTION PERFORMANCE

Generating customizable reports by operator, shift, schedule, timeframe (and more) makes it possible to monitor, optimize and improve production performance.

FULL KNOWLEDGE OF MACHINE EVENTS AND SHARING OF OPERATOR EXPERIENCE

Maestro active records maintenance, training and other events, tracking all activities within a database. The ability to comment and document all production events or notifications stores the operator's know-how and makes it available to the company.

ADVANCED PRODUCTION ORGANIZATION

Maestro active can configure different users with different roles and responsibilities depending on how they use the machine (e.g. operator, maintenance technician, administrator, ...). It is also possible to define work shifts on the machine and then measure the activities, productivity and events that occurred during each shift.

ABSOLUTE FINISHED PART QUALITY

With Maestro active, the quality of the finished part is no longer jeopardized by worn tools. The new Tool Life Determination System in Maestro active sends notification messages as the end of tool service life approaches, and recommends replacement at the most opportune time.

TOOLING? NO PROBLEM!

Maestro active guides the operator through tool magazine set-up, taking the programs to be executed into account.

THE CMS PLASTIC TECHNOLOGY RANGE FOR PROCESSING PLASTICS

3/5-AXIS CNC MACHINING CENTERS (Z clearance up to 500 mm)



TRACER



TIME



EVOTECH

5-AXIS CNC MACHINING CENTERS (Z clearance from 500 mm)



ATHENA



ANTARES



ARES



GENESI

PANEL SAWS



HELIX

SAWS



T-MAXI

THERMOFORMING MACHINES



EIDOS



BR5 CS



BR5 HP



BR5 SPECIAL SPA



MASTERFORM

WATERJET CUTTING SYSTEMS



TECNO CUT PROLINE



TECNO CUT SMARTLINE



C.M.S. SPA
via A. Locatelli, 123 - 24019 Zogno (BG) - IT
Tel. +39 0345 64111
info@cms.it
cms.it

a company of **scm**  **group**