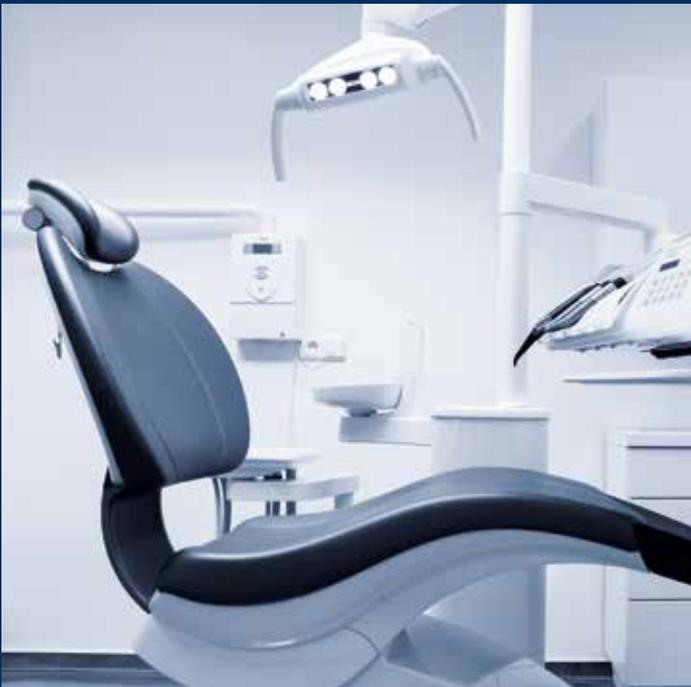


Thermoforming machines for vacuum forming



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 three large, highly specialized production centers employing more than 4,000 workers and operating in five continents. SCM Group: the most advanced skills and know-how in the fields of industrial machinery and components.

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

br5cs

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SERVICE	12-13
THE RANGE	14-15



CMS Plastic Technology makes state-of-the-art numerically controlled machining centres and thermoforming machines for processing plastic materials. The brand is the result of a winning synergy between the technical-industrial experience in thermoforming of the time-honoured Villa company, founded in 1973, and the milling know-how of CMS. Following constant investments in research and innovation, **CMS Plastic Technology** is known as the sole partner for the entire process from thermoforming and trimming to the manufacturing of models and moulds, to maximise productivity.

CMS Plastic Technology is the key player in many sectors, including automotive, aerospace, construction machinery, caravans, buses, railway industry and bathtub production.



APPLICATIONS



mass transport | healthware and wellness | caravans | anitary ware



consumer goods | automotive | refrigeration



Innovative.
Designed.
Efficient.
Aadjustable.
Lean solutions.

The **IDEAL** thermoforming machines.

Thermoforming machines for vacuum forming

BR5CS

TECHNOLOGY BENEFITS

IN-LINE THERMOFORMING

The BR5CS series offers remarkably strong production capabilities and fully automatic operation with no need for interventions by the operator. The loading-forming-unloading cycle is carried out in-line on the BR5CS.

- Higher production quality and quantity
- Positive and negative moulding capabilities
- Safe and fast mould change
- Sheet preheating system to increase machine capacity, avoid thermal shocks and allow high-quality thermoforming even with problematic materials in a high-productivity environment
- Dimensions: from 1500 x 1000 mm to 2500 x 1600 mm

KEY BUYER BENEFITS

- + 53% shorter learning time by using simple and user-friendly software that manages machine parameters and includes programming wizards. All variables are saved in a single program for repeatable results, even after years.
- + Intelligent heating management with thermal vision and advanced management using the exclusive CMS ThermoProphet function (patented). A thermal imaging camera allows point-to-point detection of the thermal impression of the sheet and automatically modifies the working percentages to guarantee the highest quality even in the presence of environmental variables. 55% lower likelihood of rejects and 25% faster restart times.
- + Productivity boosted by 33% by the preheating system that significantly reduces the cycle time. The use of the twin (upper and lower) preheating function allows the first part of the reheating cycle to be performed while the previous workpiece is cooling and also reduces the thermal shock to the material.
- + In-line machine design with toothed chain conveyor system. The sheets are automatically centred and transported with extreme precision. The thermoformed part is unloaded by resting on the edge of the workpiece and without ever touching the formed part (this solution is ideal for workpieces with significant negative drawing).



COMPONENTS

Cooling with telescopic taps



Quick mould changeover



Camp frame with automatic control



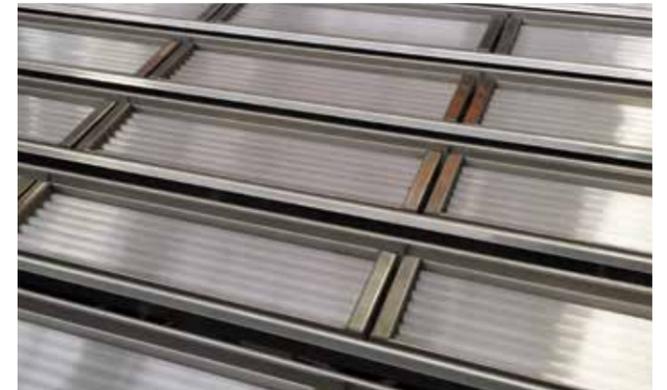
Mould carts with a mould lifting system



Electronic bubbling control



Quartz heaters



Optical pyrometer for monitoring heating and cooling



Ceramic heaters

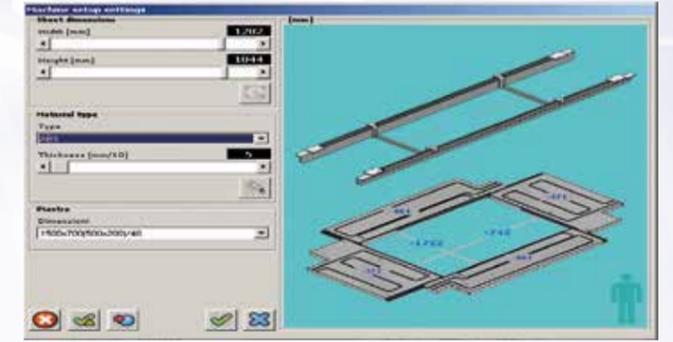


CMS SUPERVISOR MASTER

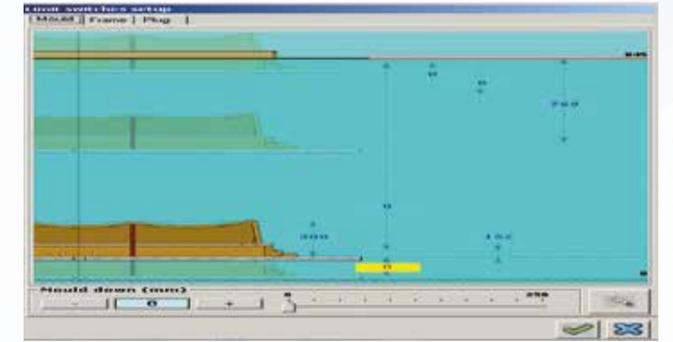
MAIN SCREEN

- User-friendly
- Touchscreen-ready
- Diagnostics, automatic cycle, process parameters, sensors and productivity parameters all on one screen
- Direct links to the set-up screens from the main screen

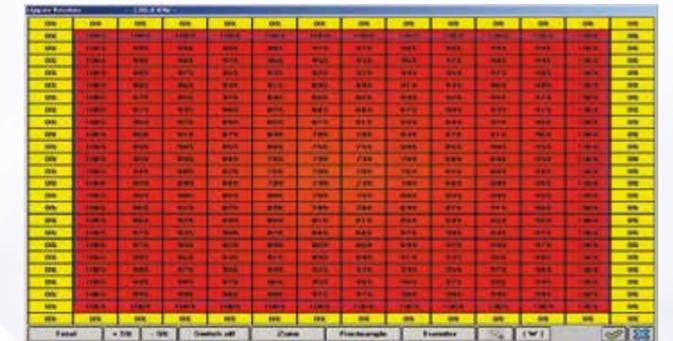
Frame size changeover and electronic reduction plate



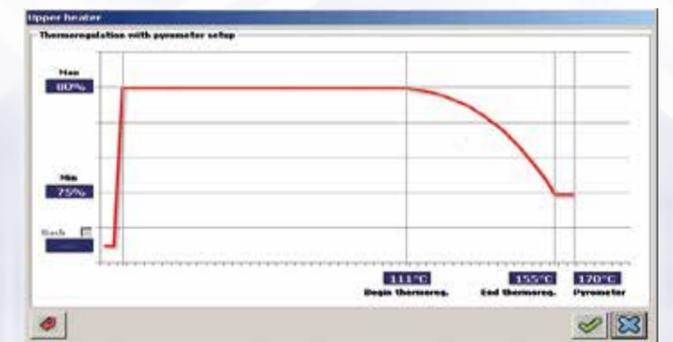
Synoptic system for simplified axis programming



Programming is simplified by comparing the sheet dimensions to the heating oven



Variable heating power according to material temperature



Vacuum, air and bubble adjustable in flow and time





SERVICE OUR TECHICIANS BY YOUR SIDE ALL OVER THE WORLD

-  Training
-  Installation
-  Remote Customer Care (RCC)
-  On-site assistance
-  Maintenance
-  Changes & Retrofitting
-  Spare Parts

A GLOBAL PRESENCE FOR BEST-IN-CLASS SERVICE

- 36,000 different codes to serve machinery of all ages;
- 1 central warehouse at the headquarters in Zogno and 6 bases around the world fully integrated at IT level and controlled by a shipping optimisation software to reduce waiting times;
- 98% of orders available in stock;
- spare parts guaranteed thanks to a scrupulous control process and validation via our internal quality laboratory;
- availability to draw up recommended spare parts lists based on client needs, to reduce down time to a minimum;

THE RANGE OF CMS PLASTIC TECHNOLOGY

FOR PROCESSING PLASTIC MATERIALS

3/5-AXIS CNC MACHINING CENTRES (Z stroke up to 500 mm)



TRACER



TIME



EVOTECH

5-AXIS CNC MACHINING CENTRES (Z stroke from 500 mm)



ATHENA



ANTARES



ARES



GENESI

BEAMS 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



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