



The Smimec mechanical workshop is getting a makeover

Preparing for the future

SMIMEC S.p.A. has been operating as a mechanical engineering workshop since 1999 and supplies moulds for stretch blow moulding machines to the manufacturing companies within the SMI Group.



Investing in operational efficiency and environmental sustainability

Over the past year, SMIMEC has significantly upgraded its machinery across the milling, welding, CNC machining, and mould-making departments in line with Industry 5.0 principles, prioritising sustainability, operational excellence, and energy efficiency.

The investment includes a machining system for medium and large components featuring one

SORALUCE FLP80 five-axis CNC machine alongside four DMG MORI NHX 6300 machining centres. According to SMIMEC, the new system offers greater flexibility, precision, and productivity while supporting customised manufacturing processes. Its high-torque direct-drive technology ensures accurate machining, and the machine design places particular emphasis on operator safety, ergonomics, and ease of maintenance.

For small and medium-sized aluminium components, SMIMEC has

installed a second system comprising four DMG MORI NHX 5000 horizontal machining centres. Designed for high-speed, high-precision machining, these machines feature robust construction and high-performance electrospindles suitable for producing moulds, tools, and precision-engineered components. Integrated automation solutions further enhance operational efficiency.

The upgraded production facility is complemented by a comprehensive range of manufacturing technologies, including laser marking for mould engraving, CNC turning centres, laser cutting systems, press brakes, robotic welding stations, and a climate-controlled metrology laboratory dedicated to quality control.

SMIMEC manufactures high-quality moulds for rotary stretch-blow moulders used to produce PET, rPET, and PP containers. The company supplies moulds for both labelled and label-free bottles using interchangeable inserts, allowing rapid format changeovers by replacing only the plug section. This solution reduces downtime, increases production flexibility, and enables manufacturers to respond quickly to changing market and packaging requirements.

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