

Thermoformed parts machining



The thermoforming sector is extensively supported by Belotti and has been since the company's foundation, and its CNC machining centres are widely used for fast trimming and milling operations on thermoformed components.

Within its range of 5-axis CNC machining centres, Belotti TRIM and Belotti FLA Series are particularly suitable for high-speed trimming and milling operations on plastics and composites components previously subjected to thermoforming processes.

Both Series are now in operation at the facilities of Modula Industry, an Italian company that is part of the Epta Group and specialised in the production of plastic components for industry. The company coordinates the entire production process, from design and feasibility study, to prototyping and in to production for structural components and accessories for industrial vehicles, earthmoving machinery, utility and public transport vehicles, furniture and the general automotive sector.

All aesthetic and functional finishes on the components, such as ventilation slots, pre- and post-gluing dimensional adjustments, holes and housings for fastening components

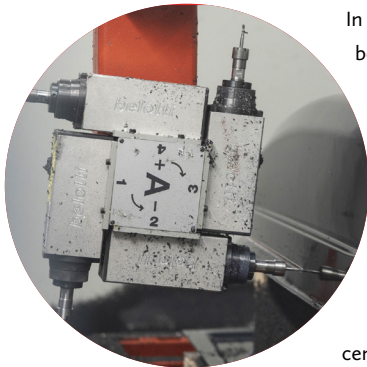
and accessories, are performed by Belotti 5-axis CNC centres, able to carry out the most complex operations requiring tight tolerances and high-levels of accuracy.

The company purchased its first Belotti FLA 4018 CB machining centre back in 2008, followed by a Belotti FLA 5526 centre and a Belotti TRIM 4015 centre in later years.

In 2022, the collaboration between Belotti and Modula Industry was further consolidated through the purchase of three new Belotti TRIM 4016 CB centres, equipped with a rotary table for loading and unloading operations.

"Belotti machining centres are now part of the history of Modula which, since the early years of its activity, has chosen them because of their exceptional performance, immediately establishing a relationship of collaboration and mutual trust that continues to this day," declares Massimo Brugnettoni, CEO of Modula Industry.

He continues: "Their high-speed and machining precision allow them to carry out key cutting and drilling tasks even on extremely complex and detailed projects, guaranteeing absolute fidelity to the project and optimising all machining operations, in order to obtain a competitive and high-quality finished product, significantly reducing production times and thus increasing



the company's production efficiency."

The three latest Belotti TRIM 4016 centres are all equipped with a 5-axis head with R4 (four spindles) revolver with a maximum spindle speed of 24,000 rpm; perimeter enclosure; Belotti MyB IoT software and they are all managed by Osai numerical control systems, which facilitates their management and use by operators. The rotary system allows the optimised loading and unloading operations of the thermoformed components, increasing the overall productivity.

The success of this multi-year collaboration between the two companies also lays on the quality of Belotti after-sales services, that supports the customer during the entire life cycle of each machine.

"We have always been able to count on a precise, efficient and punctual customer service assistance, thanks to a Service Team and Service Centres that are always ready to cover the needs of a sector that requires constant technological updating with the best tools available. For this reason, we are strongly committed to further improve this partnership, with the mutual goal of obtaining high-quality results and being able to satisfy the most complex needs of our customers," concludes Massimo Brugnettoni.

Visitors to the Advanced Engineering 2023 (NEC Birmingham, 1 and 2 November) can speak to the machining experts from Cannon Shelley on the Belotti stand, Hall 3A - T155, to learn more about all Belotti business units: CNC centres, Large Scale Additive Manufacturing, and robotic automated solutions.

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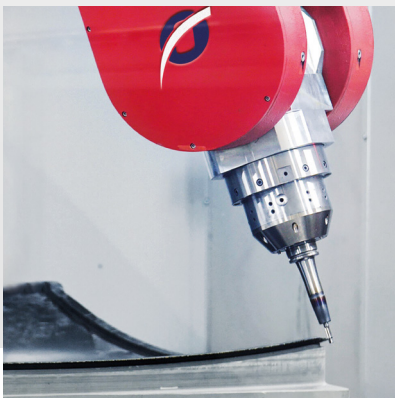
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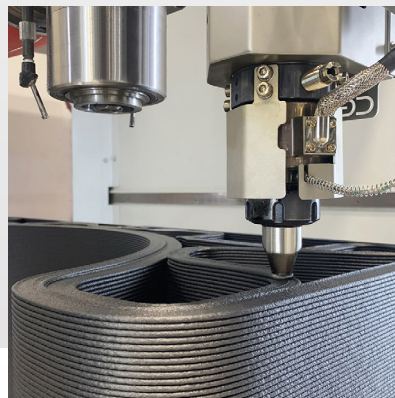
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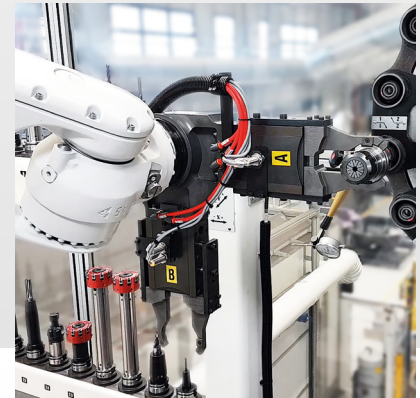
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