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Engineering excellence: Belotti technologies power Dallara's high- performance supercars

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Engineering excellence: Belotti technologies power Dallara's high-performance supercars



The collaboration between Belotti and Dallara is a story of shared ambition, long-term vision, and a relentless pursuit of excellence.

Since its beginnings, the partnership has been guided by a simple yet uncompromising philosophy: achieving the highest performance levels without ever sacrificing safety, quality, or precision.

Founded by Giampaolo Dallara, Dallara Automobili has become synonymous with Italian engineering excellence. The company is now a global leader in the design and production of race cars and high-performance vehicles, supplying championships such as IndyCar, Formula 2, and World Endurance Championships, while also developing groundbreaking supercars like the Dallara Stradale. At the heart of this success lies a pioneering use of composite materials—particularly carbon fibre—where precision machining is critical to performance, safety, and innovation.

Shared values, mutual growth

To meet the challenges of increasingly complex designs and demanding international markets, Dallara turned to Belotti in 2016 as a strategic partner for composites machining. The decision was based not only on Belotti's ability to deliver cutting-edge technologies, but also on a shared culture of innovation and a deep understanding of the motorsport and automotive industries.

Over the years, Belotti has provided Dallara with a series of highly customised



CNC machining solutions, tailored to the company's evolving needs. This collaboration extends beyond the supply of equipment: it represents a continuous dialogue between two teams committed to pushing the boundaries of technology while ensuring reliability and consistency at every stage of production.

The first investment was a Belotti FLA 6526 5-axis CNC centre installed at the Dallara Compositi plant to support high-speed operations on composite materials. This was followed by a Belotti MDL 3048 machining centre to help achieve the ambitious goal of producing 600 units of the Dallara Stradale over five years (the road-use racing car launched in 2017).

Andrea Pontremoli, CEO of Dallara Automobili, highlights the importance of versatility in Belotti's solutions: "When we started working on the Dallara Stradale, we needed a road car that could perform like a race car. That required equipment with very specific characteristics in terms of precision, safety, and carbon fibre handling. The flexibility and efficiency provided by Belotti MDL CNC centre allowed us to reduce cycle times by around 40%—a decisive factor in meeting our ambitious production goals."

The trust in Belotti was reaffirmed in 2021 with the

introduction of a third Belotti machine, the MDL 3048, that was designed to enhance milling and trimming operations on structural composite components. These include the carbon fibre monocoque used for the 'track day' variant of the Stradale, named Dallara EXP.

Davide Seletti, CEO of Dallara Compositi, stresses the importance of reliability in machining: "Surface preparation is delicate, but machining is truly critical—because in just a few minutes the entire value of a component can be compromised. Having systems that are reliable, precise, and repeatable over time is fundamental, and this is exactly what Belotti provides."

From Italy to the United States

After consolidating operations in Italy, Dallara extended the collaboration with Belotti to its US headquarters, the Dallara Experience Hub in Indianapolis, by investing in a Belotti FLU 2617.

This international dimension highlights the strength of the relationship: what started as a collaboration based in the Italian Motor Valley has evolved into a global partnership, that supports Dallara's ambitions in both the European and American racing scenes.

The benefits of this long-standing collaboration are tangible. By integrating Belotti's solutions, Dallara has been able to:

- Optimise the entire production process through customised solutions, reducing production times significantly.
- Ensure precision and repeatability on critical carbon fibre components such as monocoques.
- Expand its production capacity internationally, maintaining the same exacting standards across all sites.

As Belotti continues to develop advanced CNC machining technologies, and Dallara pursues ever more ambitious challenges in motorsport and beyond, their collaboration remains a benchmark of what can be achieved when two companies share the same passion for performance and precision.

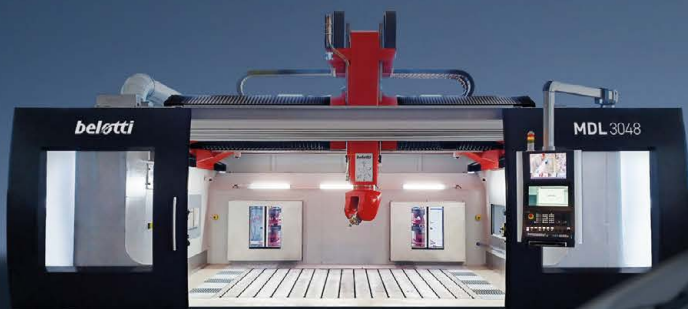
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