



# Delivering quality and value added solutions to the most demanding clients and industries worldwide

**I**nnovation, experience and excellence: these three core principles are at the very forefront of everything KS Composites does, setting the company at the pinnacle of the composites industry.

Trading for almost 40 years, KS Composites is a respected leader in the design, manufacture and supply of advanced composite tooling (patterns, moulds, jigs, scale models) and components, serving a wide array of industries including automotive, aerospace, rail, marine, defence, sports and leisure.

As the manufacturing landscape is experiencing a constant evolution, KS Composites' main purpose is to remain at the forefront, providing precision and innovation in machining solutions and final products. Guided by this approach, the company took the opportunity to revamp and update its machinery shop when it moved facilities in 2019, investing heavily in three Belotti CNC 5-axis precision centres with large envelopes, intended to machine a range of materials from low density foams, through to composites and light alloys.

The new state-of-the-art CNC machine shop now includes one Belotti FLA 4018 for resin patterns milling; one Belotti FLU 2617 for the prototyping and manufacturing of patterns & moulds and tooling boards resins, and one Belotti MDL 4036 for the machining of light alloys moulds and the trimming of



large-size carbon fibre components, including chassis for the automotive industry.

Operating predominantly in the automotive, aerospace and motorsport markets, KS Composites now works with the latest materials including a range of pre-preg fabrics such as carbon, glass, Kevlar and phenolic.

The overall procurement was overseen by Belotti Export Sales Department and Robert Lornie, Operations & Technical Sales Manager of Cannon Shelley, Belotti's official distributor for UK. Robert Lornie also co-ordinated the installations and the start-up phases of the three machines.

"KS Composites' strategic partnership with Belotti stands as a testament to our commitment to delivering excellence in machining capabilities. As the manufacturing landscape continues to evolve, we remain at the forefront, providing unmatched precision and innovation in machining solutions," states the company's Managing Director, Jamie Smith.

"Leveraging the technical abilities of the Belotti machines and pairing this with our own in-house expertise creates a very versatile and agile machining department within the business. We were able to really demonstrate this throughout the Network Rail FLOW bridge project in which the large working volume coupled with the accurate and repeatable machining ensured the modular approach to the design was successful. We look forward to continuing pushing the boundaries and exploring new sectors in which we can exploit the machines' incredible capabilities," reports Dan Johnston, Business Development at KS Composites.

For the Network Rail FLOW bridge project, KS Composites manufactured the bridge spine made of composite materials. This was the first of Network Rail's innovative new low-carbon, lightweight and affordable pedestrian bridges, opened in Shropshire as a replacement for a dangerous level crossing. The name FLOW bridge is

an acronym for Fibre-reinforced polymer, Lower cost, Optimised design, Working bridge – but it also references the sleek and modern modular design. This prototype demonstrated the versatility of composite



materials in construction on the railway.

KS Composite usual clients also include F1 teams and prestigious car and Hypercar manufacturers, such as the American Hennessey Performance, to name one of the most recent collaborations. The all-new Hypercar Venom F5 has a special frame that can be defined as a state-of-the-art carbon fibre monocoque built with the collaboration of specialists at KS Composites using Belotti CNC centres.

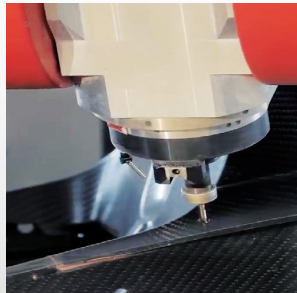
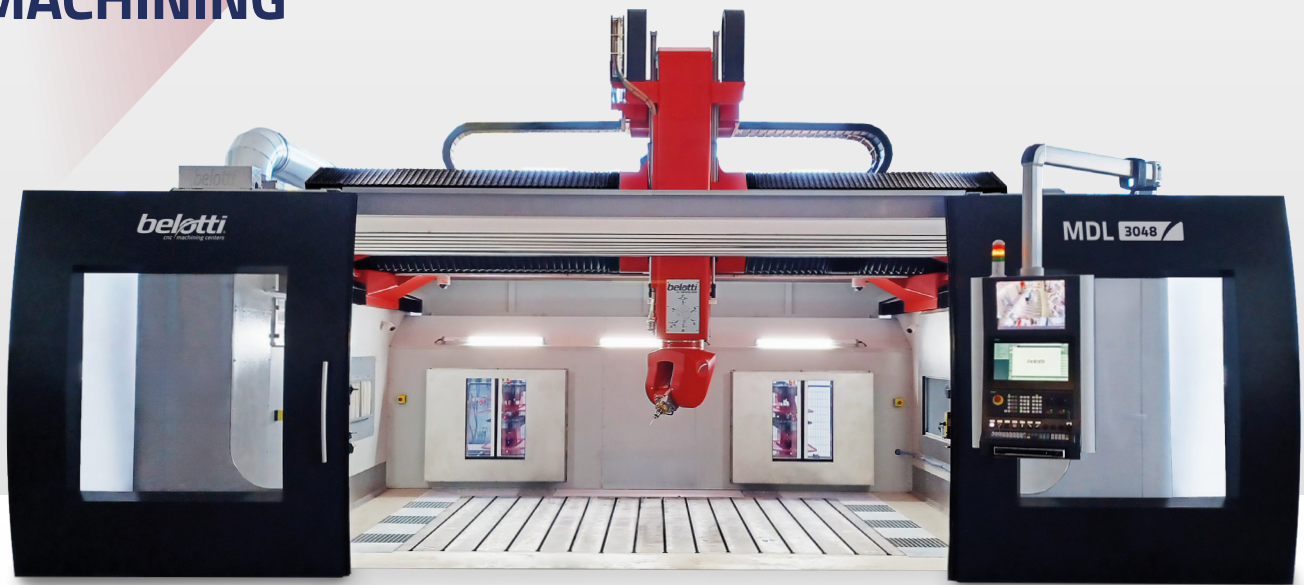
According to the team at KS Composites the integration of Belotti's CNC solutions into the company's operations has yielded numerous benefits. These include increased production efficiency; Belotti's high-speed machining capabilities have significantly reduced production cycle times, allowing KS to fulfil orders faster and more efficiently. Consistent component quality; the precision and accuracy achieved through Belotti's machining centres have elevated the quality of KS' components, meeting and exceeding industry standards. Adaptability for complex projects; the versatility of Belotti's machines has empowered KS to take on complex projects with intricate geometries, expanding its market reach and capabilities.

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