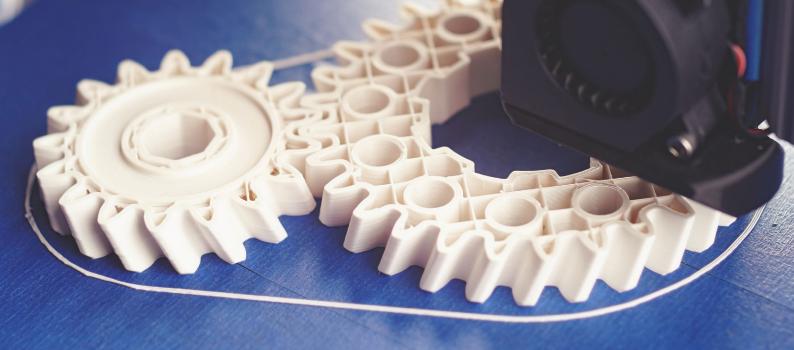
ine 2024

**Materials & Manufacturing Technologies** 

Grasping the future of additive manufacturing



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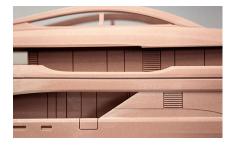
## Dreaming future sea routes with true masterpieces



or over 20 years, Model Maker Group (MMG), an Italian based company, has been manufacturing nautical prototypes, reproducing every detail of yachts and superyachts with finesse and mastery. A real boutique where unique models are created focusing on clients' requests, promptly transformed into projects where the attention to details and finishes aims at perfection. Here, two Belotti FLA machining centres craft the fine scale yacht models.

The Model Maker Group's nautical models are fashioned from great craftsmanship, supported by the most modern technologies for prototyping: creations intended both for future boats' owners, providing them with a perfect scale reproduction, and for shipyards as a marketing tool to offer a global view of the boats during the most prestigious marine shows.

Spread over two locations totalling 1,900 m², Model Maker Group carries out over 350 processes/year including projects, replicas and refits thanks to an internal team of expert model makers in an environment that has always been open to innovation and to the adoption of



extremely precise production technologies.

Following the purchase of the first
Belotti FLA 5518 CNC machining centre
in 2018, business quickly overloaded the
production capacity of the machine and
the company decided to expand its shop in
2023 by purchasing a second unit identical in
structural characteristics and accessories to
the first model, with three main objectives.
First, optimising the milling process that
was already carried out with existing 3-axis
centres. Secondly improving the quality
level as well as reducing machine times.
And finally entering new markets.

"After carefully evaluating the offer on the market of different competitors," says Giuseppe Capobianco, MMG Chief Operation Officer, "we chose Belotti because, in addition to offering a valid product, it paid particular attention to our needs. The company has proven to be a true partner not only for the supply of reliable and precise machining centres, but also for the assistance provided both in the installation phase but, above all, in operational continuity, year after year, supporting us even in the summer periods when our machining centres have the greatest production load."

The new Belotti FLA 5518 CNC centre has a fixed table structure, providing the most rigid and precise solution, housed in an integral enclosure to ensure compliance with noise regulations and a clean and safe working environment.

The 5-axis machining on the structural parts of the high-density polyurethane resin models is carried out using an HP (high-performance) head with 15 kW and



18 kW electrospindles capable of running at 24,000 rpm, in combination with a rotating axis pneumatic locking system.

"By choosing Belotti, we were able to re-engineer our production process, thus providing our customers with very high quality standards. We have been able to create models of considerable size that were completely beyond our imagination at over 3.5 m and we have opened up to new sectors such as the production of carbon moulds, but also the creation of aesthetic components on a 1:1 scale for yachts," Giuseppe Capobianco concludes.

Central to the maintenance of the performance of Belotti machining centres over time is the planning and execution of maintenance activities. Since the beginning of the collaboration, Model Maker Group has shown itself to be sensitive to this issue, thus signing a preventive maintenance contract on Belotti FLA machining centres. The goal is to ensure performance over time in terms of accuracy and machining reliability, controlling critical components and so reducing the risk of production inefficiency.

Thanks to the Belotti Compact package, the machining centres at MMG are periodically checked by specialised Belotti technicians and subjected to maintenance, verifying their geometry and providing a report at the end of the intervention with the results obtained. Intervention planning also minimises the likelihood of unforeseen downtimes.

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