

THE “JM-SM” CARBON MONOCOQUE IS A BENCHMARK FOR STIFFNESS AND LIGHTNESS

- **Automobili Mignatta unveils the first images and technical data of the carbon monocoque of Rina, the analogue speedster inspired by the Italian automotive masterpieces of the Sixties.**
- **The “JM-SM” carbon monocoque, an acronym which stands for JM Super Monocoque, was developed using the most advanced design and lamination techniques currently available.**
- **The rigidity and lightness values of the JM-SM carbon monocoque are an absolute benchmark in the automotive field and constitute the premise for exemplary dynamic behaviour.**
- **Carbon fiber is also used to build Rina's sinuous bodywork and to create numerous other components of the car, the first produced by Automobili Mignatta.**
- **Rina is equipped with modern thermal mechanics: high-power aspirated V8 engine, manual transaxle gearbox and self-locking differential. The car will be fully unveiled on May 8, 2025.**

Valfenera d'Asti, March 26, 2025 – Automobili Mignatta unveils the first images of the “JM-SM”, the sophisticated carbon monocoque that forms the backbone of Rina, prestigious two-seater speedster that combines the sinuous and timeless style of the sports cars of the Sixties with the most modern construction technologies.

This carbon monocoque was designed to combine extraordinary structural qualities with an extremely low overall weight. The construction features a tub-like geometry, which integrates the seats for the driver and passenger. The JM-SM, an acronym that stands for “JM Super Monoscocca”, is produced by JM, a company that has been active in the field of composite materials for over a quarter of a century and which owns the Automobili Mignatta brand.

The monocoque designers paid particular attention to passive safety in the event of a road accident and ease of access to the passenger compartment. The monocoque boasts a weight of just 71 kg and a torsional stiffness of approximately 101.000 Nm/deg, as well as a flexural stiffness of 2,24 kN/mm; absolute reference values in the automotive field. The JM-SM easily adapts to different mechanical layouts, a testament to its clever design.

“Using advanced virtual simulations, it was possible to significantly optimize the performance of the monocoque. The JM-SM is a structure characterized by extraordinary rigidity, both in terms of flexural and torsional stiffness, the result of a smart use of carbon fibre and lamination techniques. The construction also benefits from an optimal use of filling materials, like foams and honeycombs, capable of ensuring a minimum overall weight” – Andrea Chiumello, Chief Engineer of Rina's monocoque.

The iconic design of Rina, modelled on a carbon fibre body, hides exceptional mechanics: under the front hood hides a powerful, high-power naturally aspirated V8 engine, located in a front-central position and connected to a 6-speed manual transaxle gearbox and to a limited slip rear differential.

Thanks to the extensive use of composite material, the car boasts an extremely low dry weight of about 1,000 kg. Rina has been designed to guarantee extraordinary dynamic behaviour, a very favorable weight/power ratio and a totally analogue driving experience, unmatched in the contemporary automotive landscape.

Rina will be fully unveiled on May 8, 2025 and will be hand-assembled in Valfenera d'Asti (Piedmont), in an exclusive annual production limited to just 30 units.

Made in Piedmont, by passion

Behind Automobili Mignatta there is a group of people united by a common vision and an infinite passion for the Automobile. A group of professionals who work in perfect synergy, like the gears of an impeccable mechanism, putting their utmost effort into transforming a dream on four wheels into reality.

This dream which is called 'Rina' and represents the fruit of the work of a close-knit and visionary team, made up of souls averse to compromise. The link between Automobili Mignatta and Piedmont is also inherent in the company logo: a letter 'm' which recalls the three-drop blue lambello present on the Piedmontese regional banner, a legacy of the

ancient coat of arms which in 1424 Amedeo VIII, first Duke of Savoy, established for the Prince of Piedmont.



Automobili Mignatta is a brand of JM Srls
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