

OVERSUSPENSION SUPREME TECHNOLOGY DUCATI MONSTER 937 - 950

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Manufacturer: SUPREME TECHNOLOGY

Reference: OVS-STB/DucMonster

Price: 463.20€

Criteria associated:

MONSTER 4° GENERATION : 2021 DUCATI MONSTER 937, 2021 DUCATI MONSTER + 937, 2022 DUCATI MONSTER 937, 2022 DUCATI MONSTER + 937, 2023 DUCATI MONSTER 937, 2023 DUCATI MONSTER 937 SP, 2023 DUCATI MONSTER + 937

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OVERSUSPENSION SUPREME TECHNOLOGY DUCATI

The Supreme Technology project was born with the specific purpose of developing advanced technologies for vehicle safety and performance, experimenting with these technologies in competitions and then proposing them to the enthusiast market, condensing 40 years of experience in the world of competitions.

We carry out our projects starting from a need mainly linked to safety and performance, we then interpret the application idea through the great experience gained by Mr. Nicola Bragagnolo. Hence a hypothesis that is then transformed into a project that is tested in the laboratory using dedicated instrumentation, on the road and on the circuit, making use of important reference teams. All the design is developed with a CAD platform and FEM structure analysis, the machine programs are created with appropriate CAM programs. The project was born after 40 years of experience gained on the track and in the Aprilia testing department. Nicola Bragagnolo is therefore the first in the world to realize that the elastic energy released by the continuous compression and expansion of the tire often disturbs the functioning of the suspension, which due to its conception cannot manage this anomaly.

Hence the idea of creating a device capable of counteracting this energy being released. A first device is therefore created that exploits the well-known technology of the Mass Damper, but this device does not satisfy all the questions posed by the

problem because it limits itself to mediating the resonance frequencies but not to counteract the uncontrolled "rebound" of the tire.

A particular device called mass resonator is therefore developed by **Nicola Bragagnolo**, which exploiting a particular polymer, on which the energy of a resonant mass is dissipated, which working in counterphase counteracts the elastic energy released by the tire itself.

They therefore increase safety, reduction of braking distances, increased traction, reduction of tire consumption, maintenance of the average temperature of the tire, a greater driving comfort, and a reduction in mechanical stress of the vehicle. In wet conditions, the device is able to reduce the aquaplaning phenomenon by over 60%.

The device is then taken to the track and developed in collaboration with many reference teams, as well as being tested on the road and off-road by numerous test drivers including the "**Pirelli Experience**" research center which validates its operation and effectiveness.

[Link to the product](#)

