



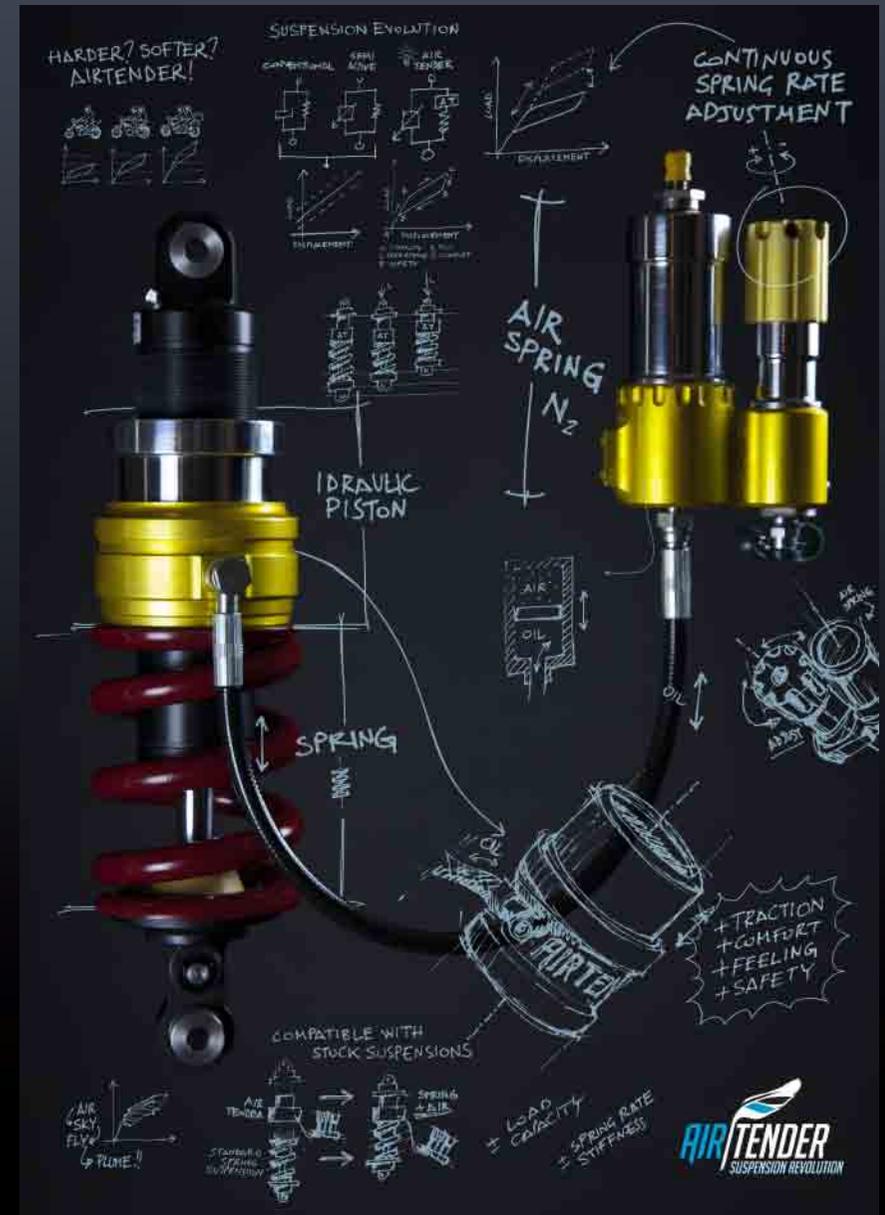


AIRTENDER: THE SUSPENSION REVOLUTION HAS BEGUN

Airtender is the first innovative suspension able to eliminate the eternal compromise between comfort and performance thus making every driving experience safer and more exciting. This new generation hydropneumatic system designed and created by Umbria Kinetics holds two international patents.

Airtender can be applied on any suspension, even electronically controlled, by substituting the original elastic element with its components: a much harder coil spring, able to emphasize the cycle capabilities of any motorbike, and the hydropneumatic system that can modify the stiffness while decreasing the elasticity when running into potholes.

Airtender is the right suspension at the right moment, no matter what kind of ground it meets, the way it is used, and the presence of another passenger and/or luggage on board.





THE ISSUE

For decades the suspension companies have tried to modify their elastic systems either using complex, heavy and expensive air springs, or applying more simple technologies to the dampers, which were controlled electronically. Both solutions – from the cheapest to the most expensive – have not solved the problem, as they have not allowed to obtain the perfect layout, able to ensure the maximum traction and comfort. All the available gears are forcing a compromise and are normally selected according to the kind of usage and the price range. In essence, when you choose to emphasize driveability you need to sacrifice comfort or vice versa, even if using more technologically evolved tools.



COMFORT ○ **PERFORMANCE?**





THE SOLUTION

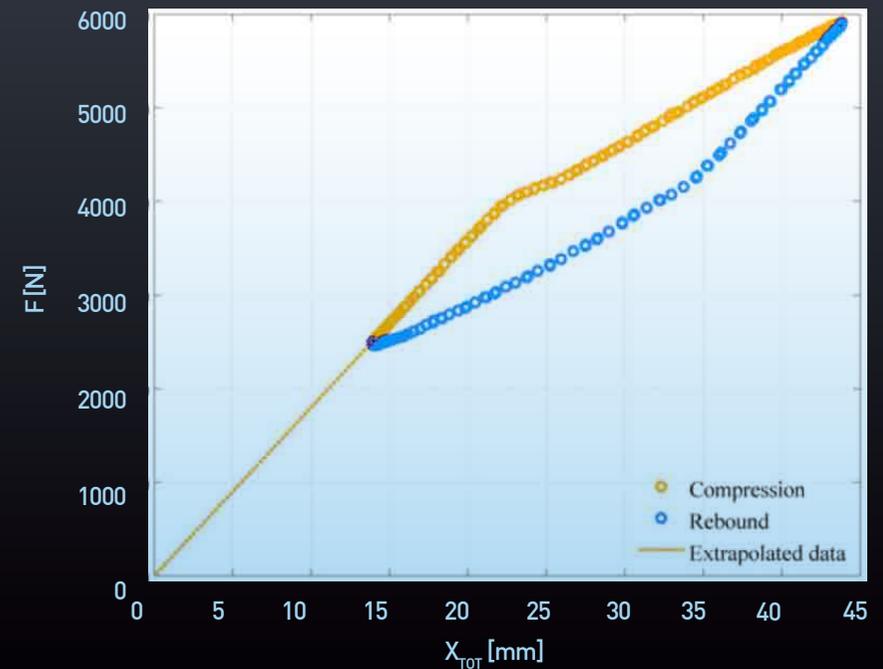
The first great innovation by Airtender lays in getting rid of the concept of compromise. Thanks to Airtender it is possible to obtain the maximum grip without ever giving up comfort, which translates into safety.

The second innovation refers to the simplicity that allows Airtender to achieve its goal: reduced size, no need for compressors or ECUs (electronic control units).

The third big Airtender innovation is the integration with all available mechanical standards. As a matter of fact, contrary to most of the available semi-active suspensions, it does not need a custom-made design because it can be installed on any vehicle.

The fourth innovation concerns the Airtender's intrinsic damping factor. All other elastic elements must be combined with a damper without which the system cannot work. Airtender on the other hand is a self-damping elastic element, as it combines to the elastic element a standard damper.

This opens a new era for Suspensions.



Il grafico forza spostamento dell'Airtender evidenzia la sua regressività e un'area di isteresi. Per questi motivi il sistema permette di ottenere un assetto stabile sull'asfalto liscio, senza rinunciare al comfort nei tratti sconnessi e sulle buche, e di sfruttare una caratteristica autosmorzante unica.



MORE TRACTION, COMFORT, FRUITION, AND SAFETY: A SUPERELASTIC SYSTEM

Airtender can be defined as a superelastic system able to maintain the wheel in constant contact with the ground and to better control the motorbike's responses.

The many tests that have been completed (with motorcycle companies as well) confirmed that the introduction of Airtender considerably increases traction and comfort because the features of its elastic system accentuate both stability and manageability.

As a matter of fact when driving on smooth asphalt the harder spring avoids oscillations, while on potholes the soft spring keeps the balance flowing. In essence, the riding experience is enhanced.

When driving with a passenger and luggage the advantages of Airtender - compared to the original systems - increase because the superelastic features allow to keep the vehicle stable, emphasizing driveability and safety and allowing the dampers, the tires, and all electronic equipment to function at their best.





AVAILABLE FOR ALL MOTORCYCLES STARTING 2017

Airtender can be installed on any suspension on any vehicle. Simply changing the accumulator's support and adjusting the hydropneumatic system's settings, it can "follow" the owner on any bike. Airtender's high versatility is further enhanced thanks to the regulator (combined with the accumulator) that allows to considerably modify the stiffness (not the preload) of the elastic system without having to disassemble any component.

Airtender will be available for sale in 2017.

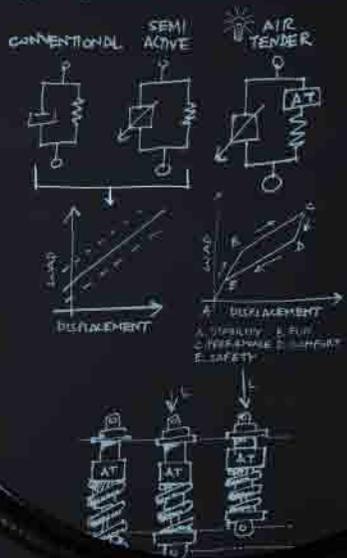


AIR/TENDER
SUSPENSION REVOLUTION

+ TRACTION
+ COMFORT
+ FEELING
+ SAFETY

SUSPENSION EVOLUTION

CONVENTIONAL SEMI ACTIVE AIR TENDER



A. DISPLACEMENT
A. STABILITY B. FLUX
C. SPRING D. COMFORT
E. SAFETY

HARDER? SOFTER?
AIRTENDER!



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