

3 weeks ago

BRS>Bitubo ER / Active suspension!!



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The year 2012 has been unforgettable for Bitubo. In the 50° anniversary from the foundation by Scipione Mardollo, to be celebrated in 2013, our company will introduce some exclusive news.

The Bitubo ER system uses for the first time in the motorcycle industry the electrorheological technology in order to make semi-active the suspensions of any motorcycle.

In order to realize this revolution, Bitubo selected two renowned partners:

the German Fluidicon for the electrorheological fluid and the Italian EShock for electronics and software.

Fluidicon is the Bitubo supplier for the electrorheological fluid used in our suspensions.

Its peculiarity is to contain nanoparticles, sensitive to the electric field, that vary its density more than 100 times a second.

E-Shock is a young and dynamic Italian company, established by the research Group “mOve” of the Electronics and Information Department at Polytechnic University of Milan and in collaboration with the University of Bergamo and the University of Padova.

E-Shock is Bitubo supplier for electronic parts and for the developer of control algorithm system (Italian patent 0001387439-2011); this system transfers the continuous variations of the suspensions comparing to the traveled road, to the electrorheological fluid.

The quality level to make Bitubo ER suspensions is the same as the one used on Bitubo ECH cartridges, XXF mono shock

and SSW steering damper, the same that brought success in the 2011 World Supersport Championship with Chaz Davies on the top of his Yamaha YZF-R6

Bitubo ER cartridges kit will be supplied also with the electronic adjustment of compression and rebound.

Thanks to electrorheology, Bitubo is able to offer an extraordinary flexible and modular system that no other normal suspension can offer at the time being. It is equipped with such a fast response and range of values, hardly comparable to other semi-active systems currently on the market.

Thanks to such big innovation, the normal activity of the set-up development on suspensions, usually managed by the best suspensions technicians, can be easily managed by the control software, without affecting the mechanic parts as well as the electronics.

It will be very easy to realize parameterized damping curves as function of values such as accelerations, position of nitrogen, relationship of the movements on the front compared to the rear and vice versa, E-lean drop sensor, speed and GPS position sensor and accelerometers.

To keep up with the times, Bitubo allows the setting of Bitubo ER system with the use of the most famous tablet in the world: Ipad by Apple. Bitubo App can be downloaded by Apple Store and is completely for free.

Despite its connotation seems to be at first more linked to "racing" for its variety of settings, the application of this system is various: to improve the riding comfort, for single or couple, to improve safety such as for example in emergency braking situations and on accidentally disconnected roads, etc...

We can finally declare to be protagonists of the future of motorcycle dynamics control!.



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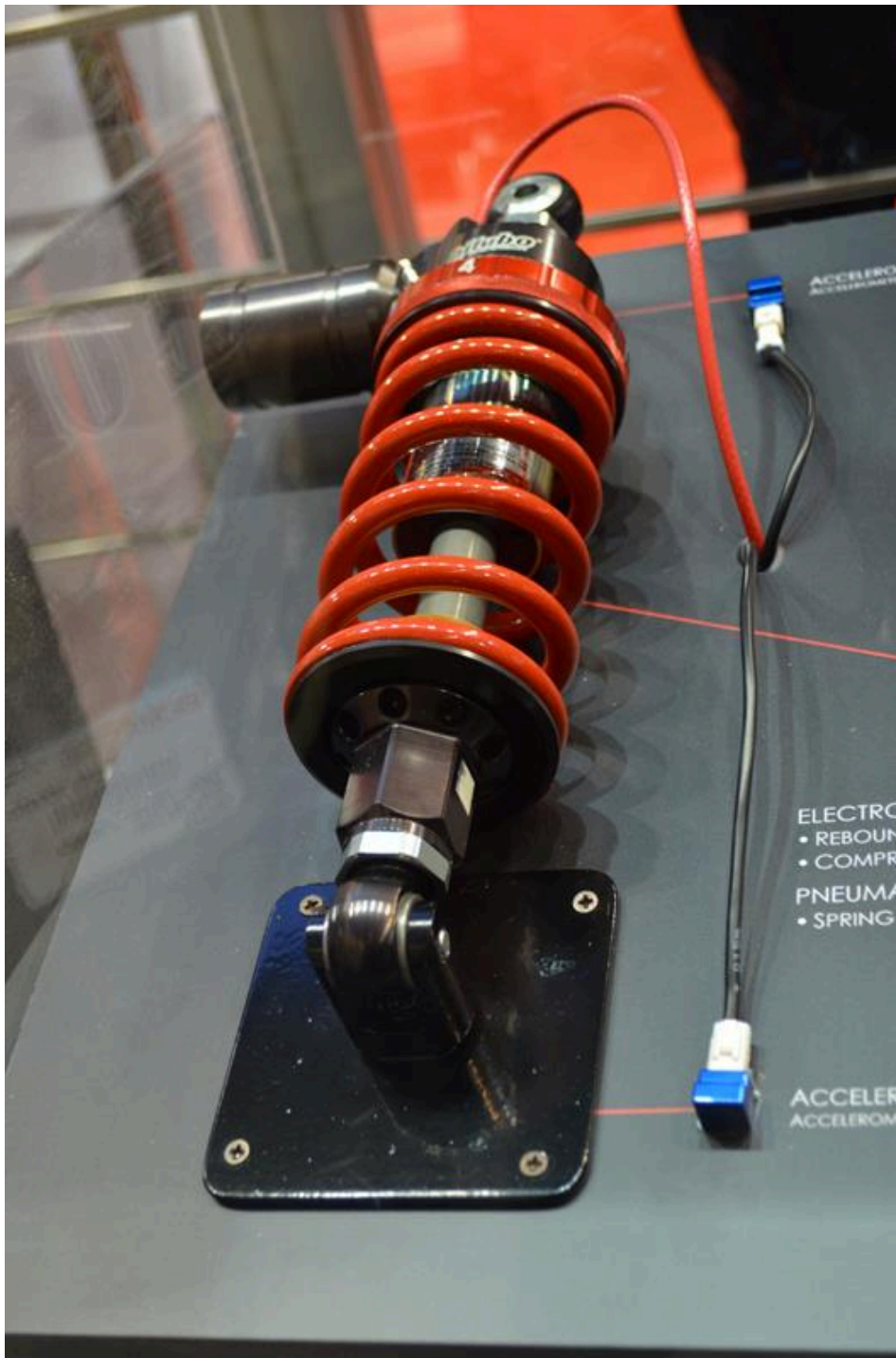
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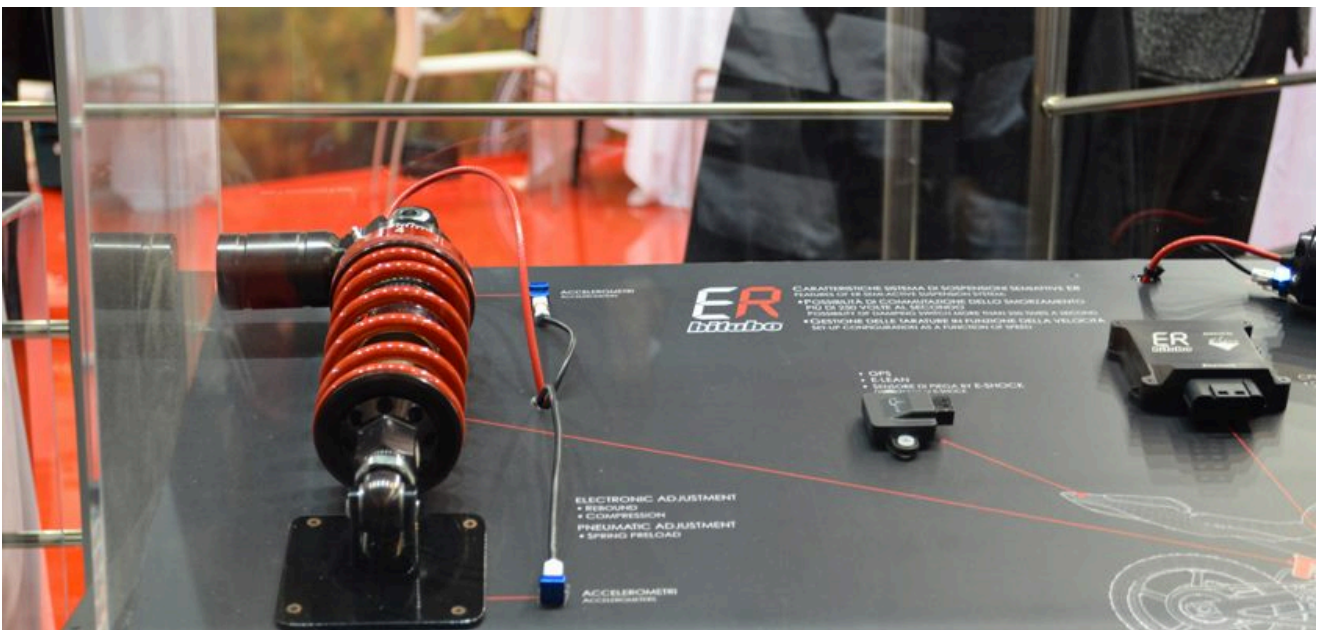
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Bitubo DS system is composed of the super tested and multi patented ECH cartridges, the XXF rear mono shock, the control unit with Bluetooth, the control display indicating the status of the setting in use among the 12 available, a button to choose the set-up, the E-lean drop sensor and a GPS sensor to determine speed and position.

Bitubo ECH cartridges kit is equipped with the hydraulic adjustment of the spring preload and electronic adjustment of compression and rebound. Bitubo XXF mono shock is equipped with the electronic adjustment of rebound, compression and preload, thanks to the use of the smallest and most efficient micromotors, never used before by any suspensions producer, that allow to increase the adjustment speed more than 30% compared to any other similar system.

The unit is equipped with 9 adjustments that are preset by the producer and not modifiable, together with 3 more that can be personalized by the user. The inserted map is visible on the display through the choice of position 1, 2 or 3 and for each of them it is possible to choose the colors red, green, blue or white.



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more on Bitubo ER suspension.....SOON!

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