



Press briefing

BILSTEIN consistently expands service for automotive manufacturers and racing teams **New site with 7-post vertical dynamics test rig directly at the Nürburgring**

BILSTEIN continues to consistently expand its service for automotive manufacturers (OEM) and racing teams. In Meuspath, right next to the Nürburgring, the shock absorber and suspension specialist has now opened a new site with a brand-new vertical dynamics test rig.

The location in the direct vicinity of the Nürburgring was not chosen by chance. Because this is where the heart of performance development in the automotive industry beats: not only do all the well-known car manufacturers and tuning companies test on the Nordschleife of the Nürburgring. Many automotive manufacturers also operate their own test centres in the industrial estate directly on the Döttinger Höhe, and numerous international racing teams have their headquarters here.

New possibilities for suspension analysis and development

The new BILSTEIN test rig, a so-called 7-post rig, offers customers and partners completely new possibilities for suspension analysis and development. The powerful vertical test rig can be used to analyse the body behaviour of a wide range of vehicles: from road vehicles and prototypes to racing cars. Four hydraulic posts simulate road excitations in the vertical direction. Acceleration sensors and spring travel transducers on each wheel and on the suspension then measure the vehicle and wheel movements resulting from the excitations of the hydraulic posts. In this way, an optimal spring-damper design can be determined. The three additional hydraulic posts make it possible to take an even closer look at the complex driving dynamics – and can even simulate the influences of aerodynamics on the suspension: they simulate not only downforce but also pitch and roll movements of the body.

Simulation of complete racetracks

Specific road conditions or even complete racetracks can be simulated with the new BILSTEIN 7-post rig, allowing OEMs and racing teams to test different setups and characteristics in a particularly time-efficient manner. The advantages are obvious: racing teams and manufacturers gain a precise and complete understanding of the suspension in the shortest possible time and can examine and optimise the handling at specific parameters as well as develop the optimum settings jointly with the BILSTEIN engineers.

Cost and time savings as the most important benefits



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In times of ever-shorter development periods in the automotive industry and increasing system complexity, car manufacturers in particular can save important development time by drawing on BILSTEIN's state-of-the-art test rig and the expertise of their engineers.

Significant time savings are also an important argument for racing teams in view of full and tightly scheduled racing calendars. In addition, there is no need for expensive track hire if parts of the development and tuning work are carried out on the test rig. Generally, logistics costs can also be saved, as the teams' racing cars are often located already close to the Nürburgring. And OEMs also transport their prototypes to the race track in the Eifel for testing.

Moreover, the additional expansion of the company's own expertise and the development and further development of its own products benefit from the new BILSTEIN vertical test rig. As a supplement to their own driving test department, the 7-post offers BILSTEIN's suspension specialists a further opportunity to realise the perfect driving experience for every product.

The new BILSTEIN site is located directly on the roundabout in the centre of the industrial estate at the Nürburgring. There is no way around BILSTEIN.

Please find more information at <https://bilstein.com/en/test-rig/>

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