

## HighSpeed MMS couplings for HORIBA

**HORIBA achieves 25,000 revolutions per minute in its test bench for electric motors with the MMS-HS coupling from REICH-Kupplungen that has been expanded to eight saddle elements.**

“We have decades of experience at REICH-Kupplungen in meeting special challenges in test bench technology and are constantly developing our couplings according to the technical requirements,” stresses Christian Reich, Managing Director of Dipl.-Ing. Herwarth Reich GmbH.

Test benches for power transmission solutions place high demands on the components used. The proper functioning of a test bench depends on it being both reliable and efficient. State-of-the-art power transmission solutions for e-mobility owe their great power capacity and service life primarily to these test benches where they are developed and tested before they go into series production.

### Expansion to eight saddle elements

It is therefore no wonder that the HORIBA Group will rely on the proven torsionally flexible and pluggable MULTI MONT SELLA – HighSpeed claw coupling (MMS-HS for short) from REICH-Kupplungen for an automotive supplier’s test bench. However, the MMS, which has been produced as standard since 1958, still did not meet the high requirements of the relevant electric motor test bench even in the HighSpeed version. The challenge for the newly developed coupling was that it should be light on the one hand, but on the other hand it should transmit the desired speed and the higher torque. In order to increase the torque transmission capacity of the existing series with six saddle elements, REICH-Kupplungen has extended the number of saddle elements to eight for the fast-rotating MMS-HS claw coupling. Even the prototype for the power check at HORIBA convinced everyone involved with an increase of the transmission capacity by 25% to 500 Nm at a maximum torque of 600 Nm.

“REICH-Kupplungen is known for fast reactions and individual solutions for special couplings. The MMS-HS with eight saddle elements is another example of our reliable cooperation. Together with HORIBA, we will continue to gain momentum in the future. Two more of our MMS-HS couplings are currently being installed for HORIBA’s own requirements,” states Mr. Daut Akar, a sales representative at Dipl.-Ing. Herwarth Reich GmbH.

The newly developed MMS clutch is now in use on an electric motor test bench of an automotive supplier at 25,000 revolutions per minute and is running and running. REICH-Kupplungen will extend the successful concept with eight saddle elements for the existing MMS-HS series. This provides customers with an optimised portfolio of semi-flexible couplings for high-speed

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14/04/2022

Rev.:1

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applications. The coupling made of special high-strength aluminium dampens vibrations, compensates for displacement and is fail-safe and easy to install. If necessary, the elements can be replaced radially by pushing back the retaining cap.

**D2C – It doesn't get more individual**

The MULTI MONT SELLA product line offers a large variety of different types so that a suitable coupling is available for almost every type of power transmission requirement. And REICH-Kupplungen will develop anything that does not already exist. After all, the essential quality factor is the in-house development and further development of the elastomers used. Our own rubber compounds are exclusively used in the MMS couplings, as in all couplings from REICH-Kupplungen. For 75 years, the company's headquarters in Bochum has been using state-of-the-art production technologies and its own test benches to produce high-quality, durable products for power transmission. True to the guiding principle of 'Designed to Customer' (D2C), REICH-Kupplungen continuously develops not only its own elastomers but also coupling system solutions in order to adapt them even better to the individual needs of the customers and to offer the optimum coupling solution.

Photo: HighSpeed test bench at HORIBA with an MMS-HS coupling from REICH-Kupplungen

Photo source: ©HORIBA

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