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## Expanding Further with Quality and Security

**dSPACE is relying on cabling from R&M for the construction of its new company premises. High quality and guaranteed reliability were top priority for the world's leading producer of engineering tools for developing mechatronic control systems.**

Mechatronic control systems are used in many fields such as the automotive industry, aviation and aerospace as well as electric drive units. Developing and testing these control systems involves tools – i.e. hardware and software – that are capable of highly realistic simula-

tions. dSPACE is the world's leading specialist in development environments for mechatronic control systems. The high-tech company is domiciled in Paderborn in north-west Germany. The success of the company's business operations has been such that new company premises had to be built in order to group the entire workforce in a single location.

It is no coincidence that R&M, with its comprehensive product range, was called in for the structured cabling. Indeed, the emphasis from the outset was on high quality and security requirements. The brief was not only to comply with the standards for 10 Gigabit Ethernet applications, but also provide a 20-year warranty for the installed cabling system.

Besides R&M's acknowledged quality other crucial aspects for the choice of R&M as system supplier were the security system and the RMS45 Microsplitter solution. R&M's three-tier security system is used to configure individual security levels adapted to each application. For its data cabinets dSPACE uses

*dSPACE is a leading supplier of mechatronic control systems.  
Photos: © dSPACE*

color-coding with Easy Latch lock protection. Connections inside the data cabinets and at the workstations are secured using R&M's Patch Guard.

The RMS45 Microsplitter with its color-coding also blends in seamlessly with the security concept. Based on the RJ45 connector system the Microsplitter is the ideal solution for expanding horizontal cabling capacities simply and effectively. It provides a quick and versatile means of responding to increased demand for channels without having to rearrange the entire planning and installation.

The supply and installation of a total of 170 km of data cables, 810 floor box inserts, 194 patch panels and 7700 RJ45 connection modules by a single system supplier demands a great deal of trust on the part of the customer. Trust which R&M was able to gain through the high quality standard of its products, its consistent system concept, and the 20-year warranty. And with Elektro Beckhoff GmbH from Verl contracted as the installer R&M also had a reliable installation partner likewise capable of guaranteeing the high standard of quality. ■



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- **High-quality system**
- **Compliance with standards for 10 Gigabit Ethernet application**
- **20-year system warranty**
- **R&M product diversity and system concept**
- **Comprehensive system accessories, in particular security systems and Microsplitter**



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