

**Factory Automation**

**Contact :** Electric Drives and Controls  
**Segment:** Automation technology  
**Personnel:** approx. 15.400  
**Address:** Bgm.-Dr.-Nebel-Strasse 2  
97816 Lohr  
**Contact data:** Phone: +49 (0)9352 / 40-0  
eMail: [info.brc@boschrexroth.de](mailto:info.brc@boschrexroth.de)  
Internet: [www.boschrexroth.com](http://www.boschrexroth.com)

The M&M-Business segment for sophisticated Software development in the Factory automation. Manufacturers of automation systems, mechanical engineers and production companies gain a distinct competitive edge with the Software applications from M&M. Innovative solutions in the sectors Engineering, HMI, Production and Testing set new trends. Segment-specific products and application-oriented technology consulting complement the performance spectrum.

**M&M Software GmbH**  
Industriestrasse 5  
78112 St.Georgen  
Phone: +49 (0)7724 / 94 15-0  
Telefax: +49 (0)7724 / 94 15-23  
eMail: [info@mm-software.com](mailto:info@mm-software.com)  
Internet: [www.mm-software.com](http://www.mm-software.com)

**Flexible GUI-Framework integrates Application components**



**User**

The Bosch Rexroth AG, a wholly-owned subsidiary of the Robert Bosch GmbH, offers all relevant technologies for driving, controlling and moving under the brand Rexroth: from mechanical, hydraulic and pneumatic systems to the electronic, as well as the respective service. The Global Player is a strong partner and comprehensive supplier for the Industrial- and Factory automation, as well as for mobile applications for 500.000 customers in over 80 countries.

Rexroth's innovative Engineering suite IndraWorks and is already successfully implemented in existing products. M&M Software is the sole distributor of *ddpFRAMEWORK*.



Engineering-Desktop based on DDP

Besides having a comprehensive GUI-Library, the DDP-Framework for the development of the latest Windows-Applications on the basis of the .NET technology also boasts a highly flexible Plug-in architecture, which enforces a modern Interface design of loosely coupled Application components, thus offering the ideal basis for a custom-designed Framework. A particularly strong point of DDP is the almost unlimited adaptability of the surface. It can be adapted to the specific needs of the respective user without the help of the Application logic of the various components. An important design-goal of DDP is the general applicability of the Gui Framework. Andreas Börngen, Sales Manager at M&M Software, says: "This feature clearly sets DDP apart from specialized Automation frameworks, which prescribe the entire Application architecture to the user and leave only little room for the individual integration of already existing solution concepts." Since, on the other hand, pure GUI-Components do not fulfill the high demands for a Framework

architecture, DDP closes this gap between a pure GUI-Component and the specialized Automation framework. This makes DDP an ideal and universal building block in a company-specific Platform strategy on the basis of the .NET technology.

**Conclusion**

Bosch Rexroth and M&M Software expect the versatile use of DDP to generate a high potential in terms of customer benefit and cost effectiveness, as well as the creation of an open Platform, which will in future make development processes much more cost-effective, efficient and customer-friendly, thus giving the user a direct competitive edge. At M&M Software, DDP will in future serve as an internal standard platform for the own product development and as basis for customer projects.

***ddpFRAMEWORK closes the gap between the pure GUI-Component and the specialized Automation-Framework."***



Andreas Börngen  
M&M Software

**The situation**

The business segment Electric Drives and Controls of the Bosch Rexroth AG and the M&M Software GmbH have paved the way for a continued cooperation with an umbrella agreement. Already since 1998, the two companies work closely together in the Software areas Technology, Strategy and Architecture. With the signing of the agreement, both Bosch Rexroth and M&M expect to achieve more synergy effects in the area of the trendsetting Software development.

**Solution**

A framework for Automation solutions under the name *ddpFramework* has been developed as part of the new cooperation agreement. *ddpFRAMEWORK* has already become an integral part of Bosch