

Press release

Hydraulic commissioning automated to a great extent

Software wizard suggests suitable parameters for fluid technology

PI 039/17
2017-08-10



The new software wizard from Bosch Rexroth simplifies the commissioning of electrified hydraulic axes. (Copyright: Bosch Rexroth AG)

Commission electrified hydraulics easily, even without in-depth knowledge of fluid technology: this is now possible with a new software assistant from Rexroth. It reduces the initial commissioning of the hydraulic actuators to just a few inputs when configuring the axis and the parameters of the motion. Technicians achieve flawless, robust results within minutes and are able to move the axes.

For the initial commissioning of the electrified hydraulic axes, Rexroth transferred decades of experience with parameterization into a software wizard. It logically guides technicians through the parameterization of the axis and prevents incorrect inputs. Even those with little or no experience of hydraulics achieve sound results quickly and reliably.

In this process, the wizard requests the components in a dialog if it cannot read the information via an electronic name plate. The assistant then requests application-specific information such as installation position, masses to be moved and maximum stroke. This information is enough to enable the wizard to suggest control structures and drive parameters, e.g. gains and limit values. It also calculates characteristic values such as maximum speeds, maximum forces and the natural frequency of the drive.

The software takes all features of the fluidics into consideration internally and generates a non-linear valve characteristic by entering a linear distance and

Contact for journalists:
Bosch Rexroth AG
Susanne Herzlieb
97816 Lohr am Main
Phone: +49 9352 18-1573
Fax: +49 9352 18-1812
susanne.herzlieb@boschrexroth.de

Press release

balances “overshoots”. Commissioning engineers are not involved in these calculations; they simply work with the physical parameters for the application. With the recommended parameters, the drives can be moved within minutes with no risk of crashing. The user can then start directly fine tuning the entire system and the process.

PI 039/17
2017-08-10

Automatic identification of the distance is also possible for many hydraulic axes. With the commissioning wizard, the commissioning engineer can allow the hydraulic drive to carry out monitored motions independently within defined limits. The intelligent function automatically calculates all internal values, without human intervention, and then allows for manual fine tuning.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 29,500 associates generated sales revenue of approximately 5 billion euros in 2016.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 390,000 associates worldwide (as of December 31, 2016). The company generated sales of 73.1 billion euros in 2016. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group’s strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is “Invented for life.” The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch’s global manufacturing and sales network covers nearly every country in the world. The basis for the company’s future growth is its innovative strength. At 120 locations across the globe, Bosch employs some 59,000 associates in research and development. Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse.

Contact for journalists:
Bosch Rexroth AG
Susanne Herzlieb
97816 Lohr am Main
Phone: +49 9352 18-1573
Fax: +49 9352 18-1812
susanne.herzlieb@boschrexroth.de