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## Smart simplification creates a competitive edge

Upping productivity by outsourcing various services is gaining more and more importance in machine tools and plant process engineering. Machining companies are more flexible when they purchase complex electromechanical assembly, engineering and installation know-how for their machinery from one-stop shops. These services, and also assembly and logistics are provided by external experts like the Besigheim company LQ Mechatronik-Systeme GmbH. As a global player and system supplier of electromechanical equipment in the machine tools and plant process engineering sector, LQ GROUP offers an extensive range of services and products related to control and installation technology.

Ultimately, only smart simplification can create a substantial competitive edge for machinery and system manufacturers and, in turn, provide the basis for lean process structures in design, procurement, production and service. Aside from proven machinery installation services, LQ customers can now also benefit from innovative products. In three product lines LQ GROUP provides solutions for common problems in the machine tools and plant process engineering: The A-TEC motor starter modules, W-TEC cable assemblies and X-TEC connectors minimise complexity in electrical engineering with universal components and standardised interfaces.

### Simplifying complex processes

LQ GROUP develops and designs modular electromechanical equipment. An example of its innovative products which simplify work in the electronics sector is a modular switchgear cabinet concept which, through the use of multifunction components, can free up space where it is at a premium – in machine switchgear cabinets. The A-TEC motor starter module belongs to this LQ-TEC series. The built-in function of the module carrier can save up to 50 per cent of space

in the machine switchgear cabinet. This 'Black Box' contains defined input, output and software interface. The A-TEC motor starter module is equipped with a connected 3- 400 V energy outgoer for on/off switching of three-phase asynchronous motors. This guarantees current control and overload protection. The switch contact for controlling the brake can be encoded via jumpers. Ultra-compact in design, the A-TEC motor starter modules can be used both centrally and decentrally. The multifunction components minimise the diversity of parts required without compromising on quality.

LQ also reduces complexity with the new W-TEC series. The innovative 6-pin W-TEC 15 connector system can be used universally, regardless of the manufacturer or make, and thus resolves complex interface problems. This fully automated pre-assembled cable feeds up to 16 A to asynchronous drives and consumers.

### Company

LQ Mechatronik-Systeme GmbH, Besigheim was founded in the course of the merger between the LINK und QUERO companies. LQ GROUP is well established in the electrical engineering sector as a successful supplier of turnkey electro-mechanical solutions and now also as a product supplier. Thanks to LQ's engineering know-how, interfaces can be standardised and individual components combined to form complete space-saving function modules, thus simplifying complex processes in the electrical engineering sector. The Besigheim electrical engineering expert also supplies the machine tools and plant process engineering sector with turnkey power supply and installation systems. The company employs 200 people on three continents. Aside from in Germany, LQ Group has subsidiaries in Switzerland, USA and China.

