

■ Sinumerik Solution Partner

Win-Win Situation

Within the framework of the Siemens Solution Partner Program, a sales and technology partnership with Siemens, merge the strengths of Siemens with the application and industry expertise of the solution partner. As a result, perfect solutions are created for every requirement, as the following examples demonstrate.

Cycles according to customer requirements

Founded in 1974, R&D Steuerungstechnik (Control Technology) GmbH & Co. KG has made an important contribution to the NC technology in the machine tool industry. The company's technology center has become

a major foothold, offering extensive expertise in Sinumerik solutions for machine tools and automation systems. Since the mid-1990s, R&D has been the Sinumerik development partner for user interfaces in job shops and provides operation, installation and configuration of Siemens shop-floor software. Recently, the company was registered as the Sinumerik Solution Partner for the development and commissioning of user-specific cycles for Sinumerik 840D, which are geared towards the technological and technical requirements of machining tasks. Above all, this includes special cycles for profile threads and cambers, as well as the pocket milling cycle on the lateral face (without Y-axis). As R&D is very familiar with the open nature of Sinumerik CNC, the company is able to program and install a suitable custom solution, including a user interface, for each application. As a result, Siemens can now also fulfill special requests from customers with respect to cycles.

Balance Systems S.r.l., founded in 1975, specializes in the balancing of rotating bodies. The company, located near Milan, Italy, receives orders from grinding machine manufacturers, automotive suppliers or machine tool component manufacturers, among others,

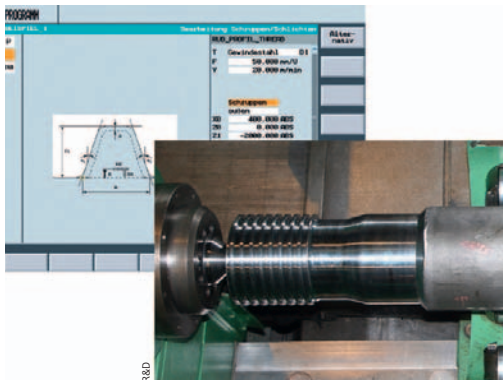
for machine tools from a wide range of industries. The VM25 measurement and control system for grinding machines from Balance Systems S.r.l. has been successfully certified for use on Sinumerik controls. Thanks to this solution, the VM25-HMI user interface can be easily integrated into the application program by the user, or activated as an independent task. A large number of functions are available to the operator:

- ▶ Balancing the grinding disk on one or two levels using extremely precise balancing bodies without torsional impact for a maximum surface quality of the ground workpiece
- ▶ Determining the grinding disk contact to optimize machining and smoothing cycles and for handling the normal acceptance curves for monitoring and signaling process irregularities using acoustic, hydrophonic and power sensors
- ▶ Comparative in-process measurement of the workpiece with immediate correction feedback to the CNC/PLC for the diameter, lengths and current positions, as well as for roundness deviations to avoid rejected parts and to ensure consistent production quality

Thanks to a complete programming interface, the Sinumerik-integrated program interacts with the devices and the operator to manage these functions. With its certified solution, the new Sinumerik Solution Partner, Balance Systems, expands and enhances the Sinumerik functionality in the grinding machine industry. ■



Balance Systems developed a measurement and control system for grinding machines for use on the Sinumerik



R&D specializes in user-specific cycles such as special cycles for profile threads

info

www.siemens.com/automation/solutionpartner

www.rud-steuerungstechnik.de

www.balancesystems.com

contact

yalcin.delioglan@siemens.com