**Weiler Werkzeugmaschinen GmbH, Germany**

**Easy Operation is a Priority**

The conventional lathes from Weiler are highly efficient, easy-to-operate and accurate. A solution developed jointly with Siemens enables much easier operation.

Weiler Werkzeugmaschinen GmbH, based in Emskirchen, Germany, specializes in the development and production of high-precision lathes. As a strategic supplier of large components, the company also manufactures products in its second factory in Holoubkov in the Czech Republic. In addition to supplying products to Weiler, Holoubkov has also had its own radial drilling machine program for many decades. The areas of application in both companies range from machine building, tool- and mold-making — to optical and medical part production — to energy technology and the mineral oil industry. The first positive experiences in partnering with Siemens date back to the time when the company still belonged to the Voest-Alpine Group in Austria. Siemens built the control cabinets for the machine manufacturer at that time. Weiler worked with different providers for the drive and control technology, but the goal was to procure all the components from one manufacturer in order to offer customers better service and optimum spare parts supply worldwide. “We now equip all our product lines with Siemens technology,” explains Armin Daum, head of electrical design and software development at Weiler.

**Use of state-of-the-art drive technology**

“Together with Siemens, we developed the conventional VC plus lathes. The emphasis is on simple
operation and rapid adaptation to a wide range of machining tasks,” says Daum. By using state-of-the-art drive technology and a display developed jointly by Weiler and Siemens, these machines offer maximum efficiency. The VC plus models are lathes in which the drive speed is controlled continuously by frequency converters. This solution includes drives with control units for control and communication tasks. The machines are equipped with clear Weiler-specific indicating and operating elements. The user is supported in operation by graphics and input masks.

Weiler is the market leader in the segment of cycle-controlled lathes of different sizes for single-part and small-series production. The machines are designed for both manual operation and NC operation. They are equipped with Sinumerik 840D sl CNCs for this purpose. The clear operator panels are specially made and reflect the corporate design of Weiler. Special adapted cycles are available in NC operation.

**Good collaboration proven**

The DZ CNC-series lathes are designed for complete workpiece machining — with high productivity and maximum accuracy. They are equipped with hollow-shaft motors for the main and subspindles and can be configured with Y-axis and driven tools. All variants are equipped with Sinumerik 840D sl and the Sinamics S120 drive system, into which safety functions are integrated to protect personnel and machines. These functions include the safe turnoff of the drives and the monitoring of speed limits, among other things.

Within the scope of the system partnership, Siemens also produces and supplies prewired control cabinets and pre-assembled cable harnesses. On-time delivery is an important factor for the head of electrical design. “Delivery bottlenecks would delay all further assembly steps,” Daum points out. It is also beneficial that all the components come from one manufacturer. “That ensures that an operator panel fits without problems and a drive harmonizes with the selected controller, for example. With the joint development of the conventional VC plus lathes, we have once more proven the close and effective collaboration and shown that innovative system solutions are also possible in this segment of the market,” Daum concludes.

«**While our** conventional lathes of the VC plus series operate exclusively with Sinamics S120, all the other product lines are equipped with Sinumerik 840D sl. The great success of the Weiler lathes proves that our decision to establish a system partnership was the right one.»

Armin Daum, head of electrical design and software development at Weiler; Michael Eisler, management executive at Weiler; and Michael Hagel, Siemens sales representative (from right to left), are pleased with the good collaboration.