

Press Release dated 05.12.2005

## Giess & Quanz GmbH & Co. KG increases countersink productivity

Giess & Quanz GmbH & Co. KG, manufacturers of precision drilling, thread cutting, countersinking and deburring tools, have strengthened their Remscheid location once again. After a trial phase lasting several weeks, a full automatic CNC grinding center for the production of countersinks has now gone into 24-hour operation. At a cost of several thousand euros the investment increases the company's production capacity for countersinks by a further 100,000 units per annum. At the same time the new machine makes current jobs at Giess & Quanz GmbH & Co. KG more secure.

One of the special features of the new CNC machine is a completely new drive system based on direct drive technology. In other words: The slide no longer works with stepping motors but with a magnetic guideway. This technology leads on the one hand to lower energy consumption on the whole and on the other hand to the direct transmission of power to the spindle. As another notable feature the spindle is loaded from above. Downtimes and setup times are thus reduced, resulting in higher productivity.

A specialty of the production line as a whole is the ability to create a so-called "U-flute" on the countersinks. For this purpose the blank, hardened to HRc 62-64 and arranged in a workpiece clamp, is subjected to complete CBN grinding on five axes (sequences of motion). The advantage of the "U-flute" is that the resulting chips can be discharged to optimum effect thanks to the smooth bottom of the flute and the large and defined chip space.

In the past two years Giess & Quanz GmbH & Co. KG have invested more than a million euros in new machinery and equipment, the new CNC grinding center included. Together with parallel on-going further developments in training and advanced training, customer support and logistics these investments have resulted in one of the most modern and innovative production lines for countersinks, step drills and tube and sheet drills to be found anywhere in the world.

The objective of such investments is not only to increase productivity and competitiveness but also to secure the Remscheid location for the company's employees.