



Milling mechanic Armin Sobisch says, „The RS 605 with zero-point clamping system is ideal for small series.“



The main spindle of the HEDELIUS RS 605 has an output of 165 Nm/18.5 KW and a maximum speed of 8000 rpm.

The spindle runtime is critical

Schuler Automation GmbH & Co. KG offers its customers custom-designed transport and automation solutions for production. The main emphasis in the machining section is on the production of one-off parts and small series. In 2012 the traditional medium-sized company invested in a combined 3-axis and 5-axis machining centre “Made in Germany” to increase efficiency.

Schuler Automation GmbH & Co. KG designs and makes state-of-the-art machines and lines for customers from the automotive industry, their suppliers and the electric motor and household appliance industries for both sheet metal applications and also for automation and transport tasks in production. The product range includes, e.g. decoilers, roller straighteners, coil washers, high-performance roll feeds as well as automation equipment and process engineering for solid forming.

In addition to its main customers in the automotive industry, the medium-sized company from Hessdorf also equips a large number of sheet metal processing companies with automation solutions. The HEDELIUS RS 605, a vertical machining centre with a combined 3-axis and

5-axis working area has been used in the mechanical machining of castings, steel or aluminium since 2012.

Profitable series production

Schuler Automation in Hessdorf has a total of 40,000 active production parts including many custom-made devices, one-off parts and small series. “It is quite clear that we focus on efficiency in the production of our recurrent parts. We wanted to increase the spindle runtimes and significantly decrease the setting up times for our small series,” is how production manager Bernd Peters explains the decision to go for the HEDELIUS RS 605. The great advantage of the machine is that the operator can set up in parallel to production time. The working area can be divided within minutes by using a divider plate - the fixed machine table can be used on one side, the rotary/tilt table for simultaneous machining on five axes can be used on the other side.

Inclusive zero-point clamping system

The HEDELIUS RS 605 moving column machining centre was fitted with the ZeroClamp zero-point clamping system at

the factory. This means that four Hoffman Garant ZeroClamp clamping cylinders are integrated in each of the fixed machine table and in the rotary/tilt table unit. The tried and tested clamping system considerably reduces the amount of time required for clamping and retooling of the machines – production becomes significantly more efficient, non-productive times are reduced. Milling mechanic Armin Sobisch and NC programmer Udo Schneider appreciate the advantages of the system, „Production with the HEDELIUS RS 605 is a quantum leap in terms of efficiency and precision for Schuler automation. We can even produce complex workpieces now with short setup times in only one clamping,“ explains Schneider.

It is possible to machine workpieces with a diameter of up to 520 x 420 mm on the rotary/tilt table of the RS 605. The fixed machine table has a clamping area of 700 x 600 mm.

Schuler Automation GmbH & Co. KG

Metal forming, transport and automation solutions

Established: 1839

Company headquarters: Hessdorf

Employees: 5,000 employees worldwide, in Schuler AG