



In the fixed machine table and the swivel table of HEDELIUS RS 605 K IC four clamping cylinders each are integrated.



The HEDELIUS standby magazine has an additional 190 tool slots.



Well combined – set-up times halved

Klößner DESMA Schuhmaschinen GmbH is one of the leading suppliers of machines and moulds to the international shoe industry. To ensure high-quality and efficiency in production, DESMA makes continuous investments into state-of-the-art production technology: At the end of 2012, a new vertical CNC machining centre from HEDELIUS with integrated zero-point clamping system and standby magazine was put in operation.

The name DESMA stands for innovative, cutting-edge technology. The company, founded in 1946 in Achim, has specialised on sole attaching machines as well as machines for sole production. Since December, demanding individual parts and small series have been produced with the combined 3 and 5-axis machining center HEDELIUS RS 605 K IC. As revealed by “IC” in the machine name, this machining centre is equipped with the integrated clamping system GARANT ZeroClamp.

Integrated clamping cylinder

In the HEDELIUS machines of the **RotaSwing®** series, 6 or 4 ZeroClamp clamping cylinders are installed level in the fixed table and the swivel table. A wide range of mechanisms is available to the

user: vices, high-pressure compressor and magnetic clamping plates. The system is impressive in application: “This zero-point clamping system is great if, for example, you have to interrupt your work and do something else”, said Volker Rowe, machine operator at DESMA, in appreciation of the newly gained flexibility. Particularly in the production of complex components, for example for the DESMA sole attaching machines, the zero-point clamping system is important for repeatability. “The workpiece is clamped only once and the machine then calculates the distance to the zero point automatically”, explained Rowe. With its central zero point ZeroClamp has no sword and free bolts.

Short set-up and changing times

Jens lid, Head of Mechanical Production, was quickly persuaded by the whole HEDELIUS RS 605 K IC package: “For us, the price-performance ratio and the equipment with the zero point clamping technology were decisive.” In addition, at HEDELIUS, they are always ready to mill a sample part and demonstrate in this way the required precision of 1.5 hundredths of a millimetre tolerance. “This, of course, gave us confidence.”

As DESMA uses many different tools in machining – 50 different tools are required alone for the milling a mixing head – the new HEDELIUS machining centre is operated in combination with the HEDELIUS standby magazine. The latter has 190 tool slots and the tool change is fully automatic. Advantage: The changing times are reduced and mix-up is excluded. After a bit more than half a year, RS 605 K IC is now in use at DESMA and Jens Lid reports positive results: “With ZeroClamp and the HEDELIUS standby magazine we were able to reduce the set-up times by at least half.”

Klößner DESMA Schuhmaschinen GmbH

Special machine building and mould-making

Established: 1946

Company headquarters: Achim

Employees: 200