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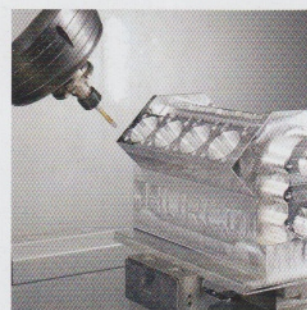


SOUTHERN
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MORE CAPACITY THAN A TRUNNION MACHINE

- Innovative design gives the most versatile configuration for a 5 axis machine
- Full capacity use of the machine table when in 3 axis mode
- 600mm diameter, 500Kg capacity, direct-drive rotary C axis
- Parts can also be machined horizontally, allowing far greater height clearance, compared to a trunnion
- Unlike a trunnion machine, component size is not limited by the table diameter



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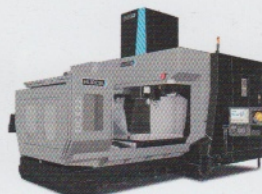
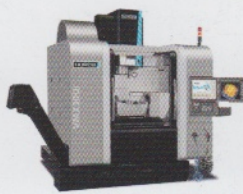
MACHINING CENTRES

TURNING CENTRES

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DOUBLE COLUMN

SUPERIOR CONTROLS



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Innovative new gripper

AMF has introduced a modular gripper with adjustable gripping forces. The new gripping system for machine tools has a shaft interface and is exchanged like a tool from the magazine. Users therefore achieve fully automatic workpiece change on a machine tool during the machining process. Gripper jaws for different geometries and workpiece weights enable broad use of the new development. With the gripper, the manufacturer promises longer machine run times and automatic processing, even in additional shifts.

"Our new grippers with adjustable gripping forces let users turn their machine tools into automatic machines that run without labour and with longer machine run times," states Martin Tinger, product management group leader for Andreas Maier GmbH & Co. KG (AMF). With the new modular gripper, machining processes can be automated on the machine tool without need for a robot. The gripper has a Weldon shaft and so can be exchanged fully automatically like a tool from the machine tool's magazine. It can move workpieces of up to eight kilograms on the machine table and put them in place for machining.

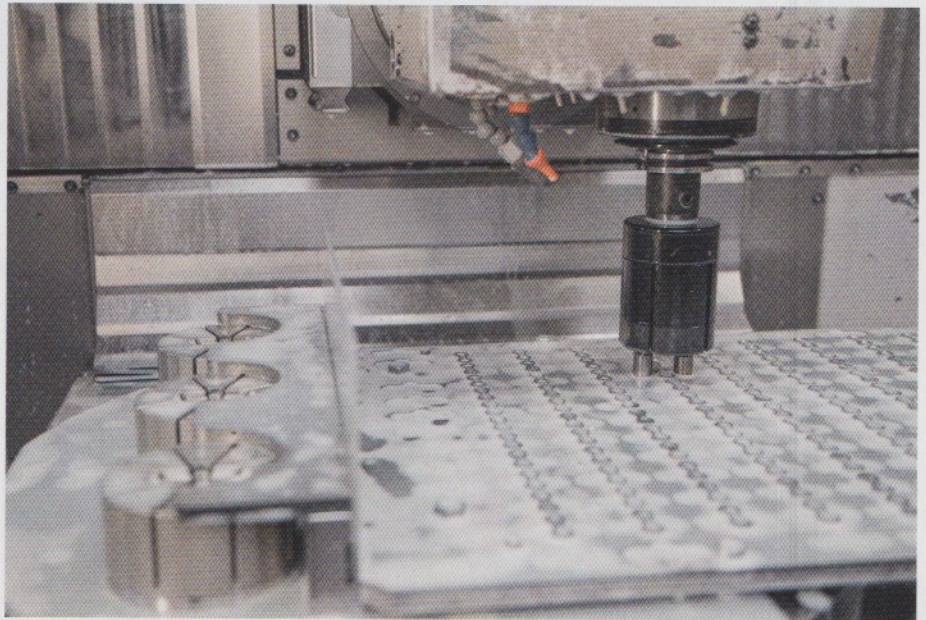
Adjustable gripping forces for the first time

Different geometries can be gripped with three different grip inserts; finger, prism and universal. The prism-shaped grip inserts can be turned for even more flexibility. The gripper is actuated via the machine spindle either hydraulically with cooling lubrication or pneumatically by applied compressed air. The gripping forces of the jaws can be continuously set, from 250 to 1,000 N in the hydraulic version and between 200 N and 700 N with pneumatic control. "This flexibility through continuous adjustment of the gripping forces is unique and protects thin-walled components, for example," Martin Tinger emphasises.

In addition, the gripper has compensating play for the C-axis of plus-or-minus three degrees and for the Z-axis of 5mm, permitting secure gripping of approximate geometries and positions as well. AMF offers the gripper with two different gripper carriers, which can grasp and transport workpieces of up to 70 mm.

Building block for automatic machine tool

The inserts are hardened and have a

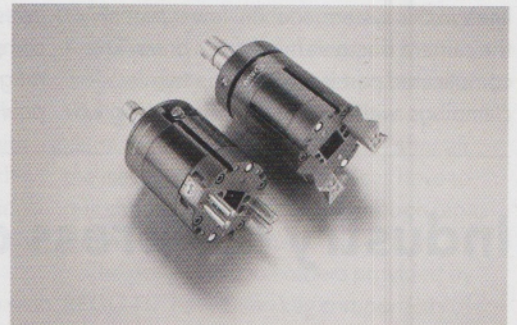


wear-free surface. On request, the manufacturer produces gripper inserts that are adapted to the workpieces. Blanks are also available, which customers can adapt individually for their application. With the new gripper, AMF is expanding its programme for automating machine tools, which already includes zero-point clamping technology, a collet chuck and a similarly interchangeable cleaning tool.

Andreas Maier Fellbach (AMF), originally founded in 1890, today is a one-stop supplier in clamping technology and is one of the world market leaders. With a global market presence, the company and its employees always have an open ear for the resolving customer issues. By listening to these needs and, through its strong problem-solving ability, professional consultancy, intelligent engineering and high manufacturing quality, AMF repeatedly develops project fabrications and customised solutions for customers as well as standard solutions that succeed in the market again.

With an extensive range of hand tools, clamping elements and toggle clamps, AMF meets the highest quality standards and requirements for all applications. But in some cases, however, there may be individual requirements that are not included in its standard program.

For this reason, there are always



custom-made products for special requests. Depending on requirements, the company rely on existing tools and modify these or, if necessary, design and construct a new product, tailored to very specific applications.

With more than 5,000 products and numerous patents, it ranks among the top innovators in the industry. Speed, flexibility and 230 well-qualified employees guarantee success at Andreas Maier GmbH & Co. KG. In 2018, AMF earned revenue of more than 50 million euros for the first time.

By focussing on its core areas of expertise, the company has long set new standards for innovative clamping technology, driven by its own development, the greatest possible flexibility and passion for individual solutions.

Andreas Maier GmbH & Co KG

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