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on all new XYZ CNC machine tools

XYZ 500 LR

18 HP SPINDLE
580 x 400 mm TABLE
510 x 400 x 450 mm TRAVEL
8000 RPM SPINDLE
(12000 RPM optional)
SOLID CASTING 2400 KG

XYZ 750 LR

18 HP SPINDLE
830 x 410 mm TABLE
750 x 440 x 500 mm TRAVEL
8000 RPM SPINDLE
(12000 RPM optional)
SOLID CASTING 3500 KG

XYZ 1000 LR

18 HP SPINDLE
1060 x 500 mm TABLE
1000 x 500 x 500 mm TRAVEL
8000 RPM SPINDLE
(12000 RPM optional)
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The new XYZ LRs
with the latest linear rail technology

The LR range starts with the compact XYZ 500 LR, followed by the mid range XYZ 750 LR up to the 4.5 ton XYZ 1000 LR with one metre in the X travel.

This makes the LRs the perfect choice for those new to CNC or for the workshop that's looking to modernise or expand it's existing machining capabilities with the minimum financial outlay.

High speed machining has never been more affordable.

“For many this will be an ideal opportunity to upgrade and modernise their workshops.”

Nigel Atherton
XYZ MANAGING DIRECTOR

XYZ
Machine Tools

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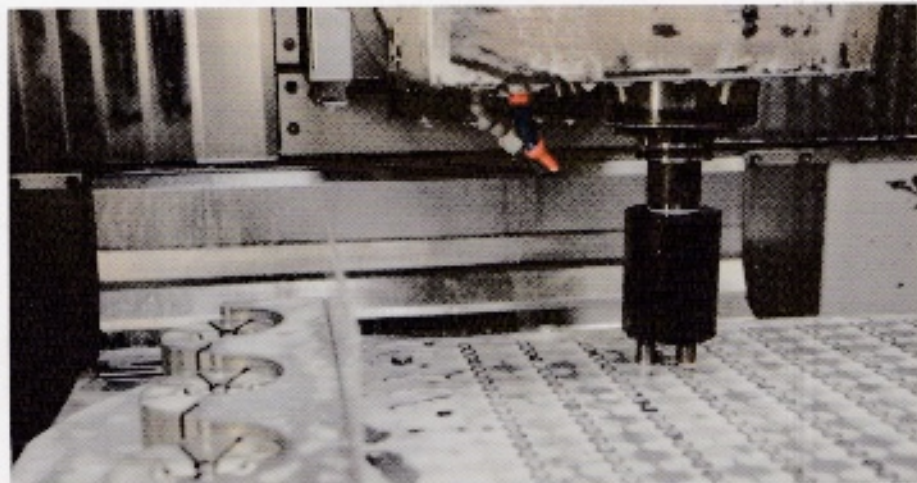
Gripper with adjustable forces

AMF expands its programme for automating machine tools with an innovative new gripper

AMF is presenting 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 can thus 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," promises 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 1000 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," emphasises Martin Tinger.

In addition, the gripper has compensating play for the C-axis of plus-or-minus three degrees and for the Z-axis of 5 mm, 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 tools
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.

Over a hundred years of continual improvement

The success story of AMF began with the founding of the company by Andreas Maier in 1890. An international company quickly emerged from the lock manufacturer in Fellbach to develop into a competent partner for many sectors through specialising in different systems of clamping technology. Technologies that contribute towards process optimisation and increase in productivity have more significance than ever today as competitive advantages. With modern team structures and focus on its core areas of expertise, AMF assumes responsibility for new challenges and exciting projects in the future. Since the foundation of the company in 1890 until today the goal has remained the same: the highest quality in products and services. Nevertheless, the circumstances, tasks and challenges have changed, of course. By focussing on its core areas of expertise, AMF has long set new standards for innovative clamping technology, driven by its own development, the greatest possible flexibility and passion for individual solutions.

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