

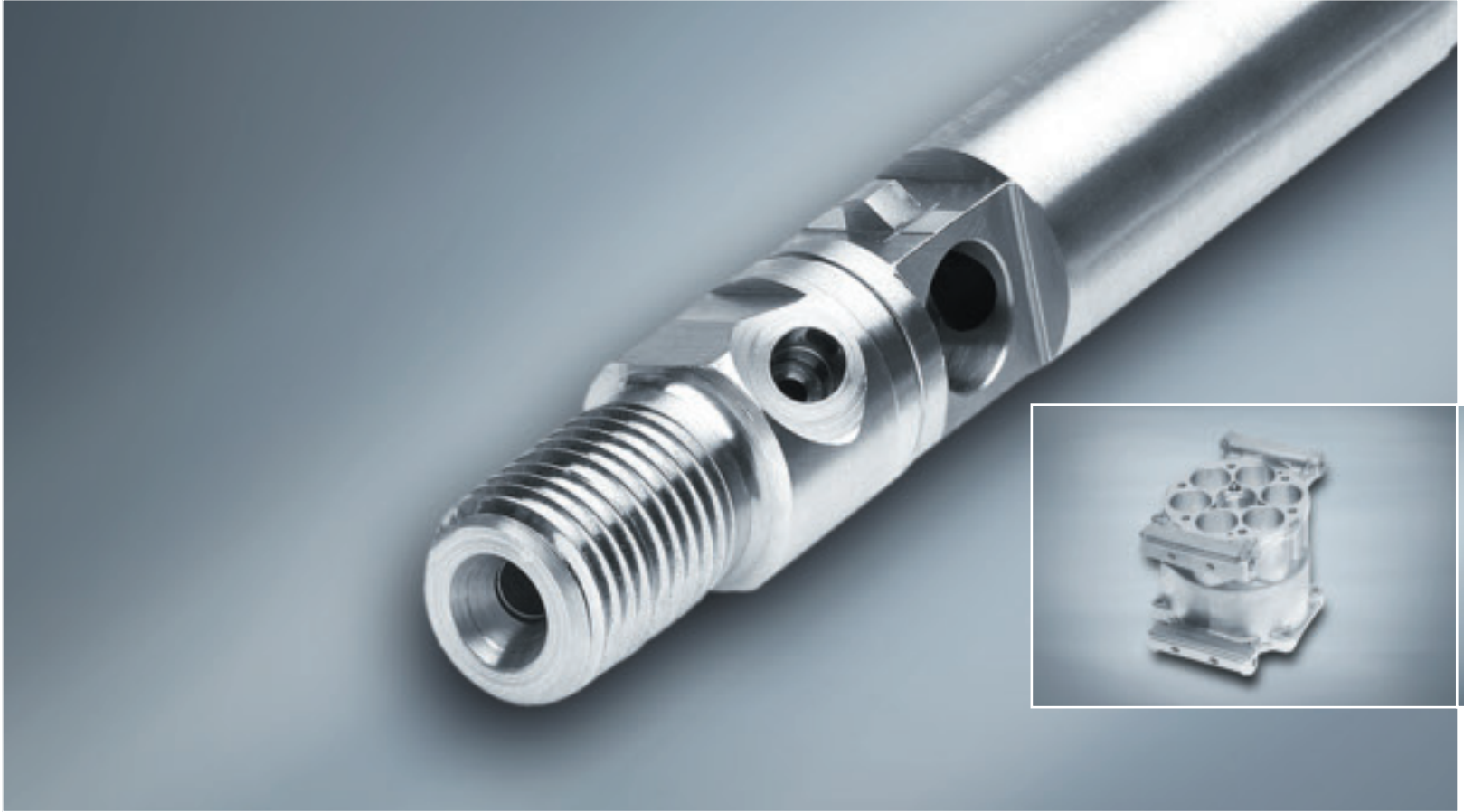
FZ 12 W AND FZ 12 W MAGNUM SERIES

High speed manufacturing for low piece cost

FZ12W_Magnum_GB 20.01.2008 14.52 Uhr Seite 2

FZ 12 W – FZ 12 W MAGNUM

Successful series with exceptionally high productivity



The **FZ 12 W series** is based on the vertical moving column principle. This brilliant machine concept alone offers a number of advantages. The highest accuracy can be achieved for all kinds of workpieces since the machine accuracy does not depend on the weight of the workpiece. The **machine bed** distinguishes itself by its **high rigidity**.

The FZ 12 W also has a remarkable performance when it comes to speed and accuracy.

The strength of this series lies in the stable and powerful machine tool construction.

Consequently, these machining centres have such a high capacity that they can tackle even the most demanding cutting operations very efficiently.

You will be amazed by the performance of this series!

With chip-to-chip times of 1.9 s (FZ 12 W) and 2.4 s (FZ 12 W MAGNUM), the machining

centres of the FZ 12 series are among the fastest in this machine category.

Our consistent efforts to implement a modular strategy and the simple design of our systems with high-quality, powerful individual components guarantee the **highest possible** machine availability.

Powerful spindles, with large bearings and SK 30, ISO 40 or HSK 63 tool interfaces, ensure excellent milling results.

The digital main spindle drive with up to 140 Nm also plays a significant part in achieving this outstanding performance.

The quickest way to machine a workpiece

One of our goals is to try to exceed the expectations of our customers. FZ 12 W is one of the best and quickest machine tools in its machine category in terms of working area, performance, accuracy and application possibilities.

It is an ideal machining centre for machining a wide range of workpieces.

A few areas of application are the automobile supply industry, manufacturing die casting parts or other serial parts, machining steering boxes, air conditioning

compressors, pumps, common rail components, parts for electric tools, surgical instruments etc..

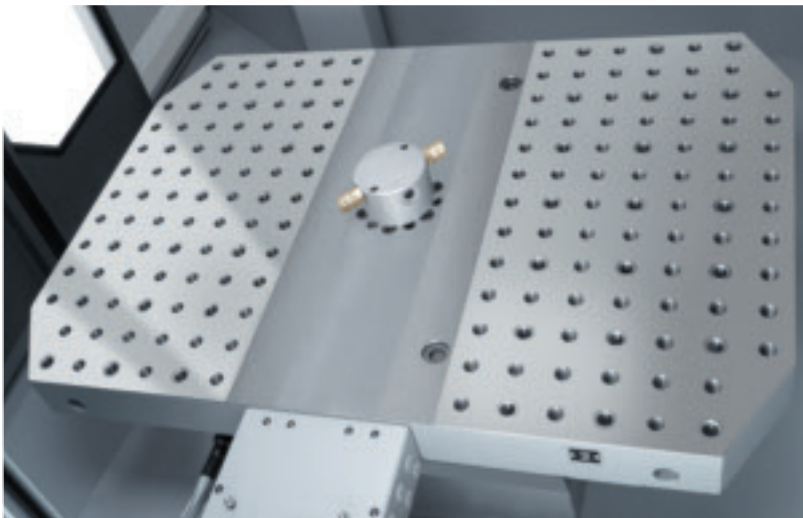


FACTS

Type	
FZ 12 W / FZ 12 W MAGNUM	
Highlights	
Travel X-Y-Z	550-300-425 mm
Rapid feed rate up to	40 m/min
Spindle speeds up to	10,500 rpm
Milling capacity up to	250 cm³/min
Number of tools max.	20
Tool change time approx.	0.8 s
Chip-to-chip time approx.	1.9 s



Ideal working area and chip disposal



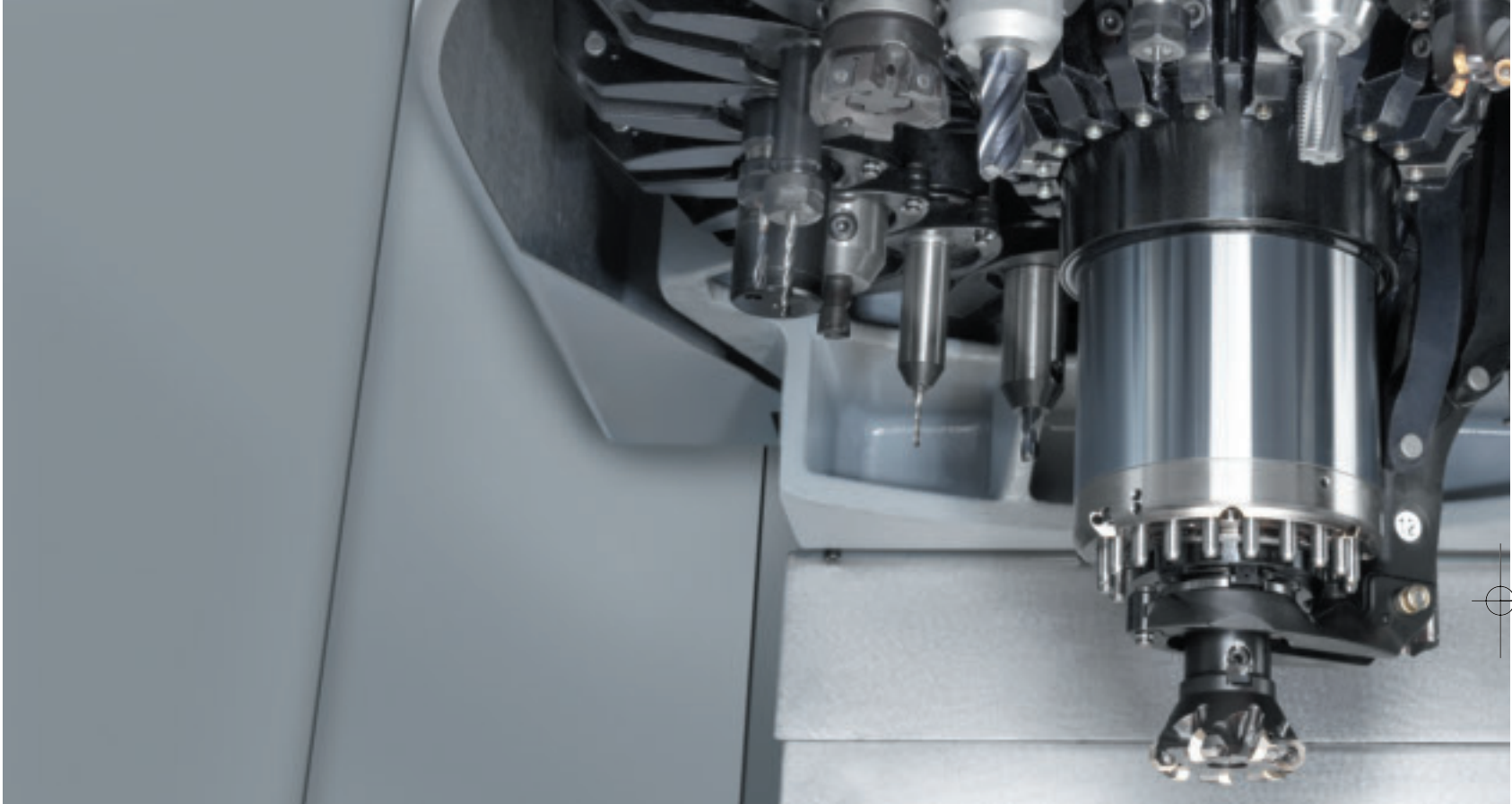
Workpiece changing device

The FZ 12 W comes with a **quick workpiece changing table**. Only **2.9 s** are required for swivelling from **0° to 180°**. While one part is being machined on one table side, other parts can be loaded or unloaded on the other side without interrupting the machining operation. This reduces non-productive periods to a minimum; to put it simply - high speed manufacturing.

The large working area is easily accessible on the loading and unloading side as well as the machining side. The centrally located energy distributor ensures continuous power supply to automated clamping fixtures on both table sides.



Precise digital drives and lightning-fast tool changes

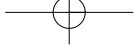


FZ 12 W and FZ 12 W MAGNUM are equipped with the latest, very powerful digital drives. This guarantees the shortest possible positioning times and exceptionally short chip-to-chip periods from 1.9 s onwards.

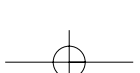
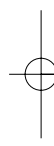
CHIRON is known world-wide for its extremely quick tool change.

The patented CHIRON basket changer with 20 tools takes only 0.8 s to change tools. As this system is equipped with a movable magazine, it is not necessary to move the axes further during tool change.

Thanks to the variable tool change level, axis movement for tool change is reduced to a minimum in the Z direction. The shape of the gripper is designed for optimal chip flow. The tool magazine allows angled heads, workpiece grippers and probes to be easily used.



The stationary 3D probe system provides a perfect solution for **tool measurement, tool breakage monitoring** and **machine compensation**.



FZ 12 – Options

Higher spindle drive
Direct path measuring system
Automatic doors
NC rotary table
Fully enclosed, with suction unit
Probe
Stationary 3D probe system
Tool measurement and management
Drill breakage monitoring
Tool life management
CHIRON Laser Control
Chip conveyor with coolant unit

Basic series systems

08 Series

High-speed centre for small workpieces

12 Series

High-speed manufacturing for low piece costs

15 Series

Faster milling in medium-sized and large batch production

18 Series

High-speed machining and heavy cutting

28 Series

High-performance machining for small and medium-sized batch production

MILL Series

Productive small and medium-sized batch production

Systems

FLEXLINE

Manufacture a variety in series without conversion

FLEXCELL DUO

Robot-automated 6-sided complete machining on 2 machining centres

QUATTROCELL

Robot-automated multi-spindle machining with 0.0 s tool change time

Please request our brochures on the following technological subjects:

- Multi-spindle machining
- Multi-side machining
- Bar machining
- Wheel machining
- MPS profile machining

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