

Hydraulic & Pneumatic Components

MIKRON



Machining systems to produce hydraulic and pneumatic components



Ideal machining systems for parts of the pneumatic and hydraulic industry

Competitive workpiece costs. **Your issue?**

Increasing quality requirements. **Your challenge?**

A machining system capable of doing everything. **Your dream?**

Machines-processes-cutting tools: competent solutions from one provider. **Your claim?**

Innovative service solutions. **An important issue for you?**

Contact us! We have the solution suitable to your needs.



Parts for pneumatic and hydraulic units.

Multistep XT-200, the ideal solution for changing lot sizes

Perfect concept

- Multistep XT-200 is a linear transfer system
- Multistep XT-200 ideally combines the productivity of a transfer machine with the changeover flexibility of a machining center.

Productivity

- Multistep XT-200 is based on a number of extremely fast machining and transfer modules
- Chip-to-chip time approx. 1 second
- After installation, one or more modules can be added to increase productivity and allow customers to tailor their investment to their requirements.

Flexibility

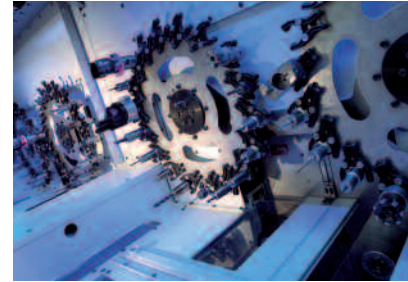
- The Multistep XT-200 concept allows quick changeovers
- Due to excellent changeover flexibility ideal for relatively short-series production.

Precision

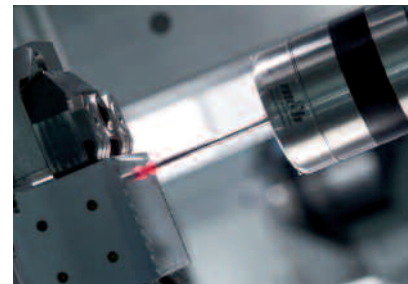
- Additional machining precision with caliper measuring reference faces
- Clamping systems with standardized EROWA interface guarantee precise positioning after workpiece transfer.

Variety of Machining

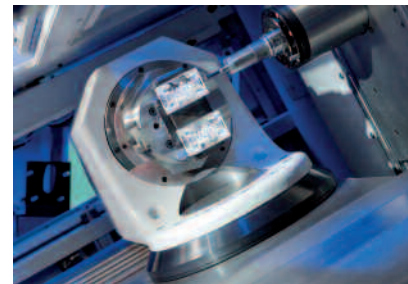
- Up to 5 axis interpolation for demanding operations on 5 1/2 workpiece faces in one single clamping
- Exchangeable grooving head, with CN command.



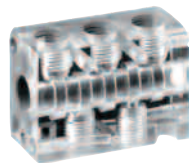
Concept with two working spindles



Caliper



Double clamping



Mikron NRG-50, the all-rounder

A perfect fit

- Compact and modular construction with 12 stations, readily adaptable to individual production needs
- Complete machining of components without pre-machining on other systems.

Productivity

- Up to 30 machining units (up to 3 per station) working simultaneously, allow numerous machining operations in one cycle.

Flexibility

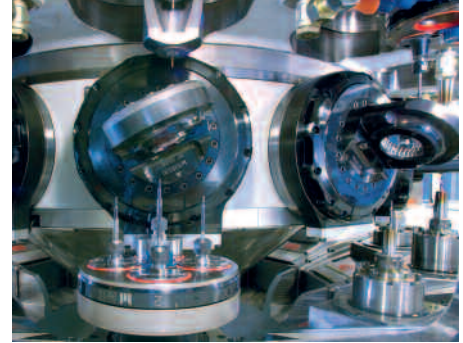
- Fully CNC controlled machine
- Up to 96 cutting tools on board allow machining of diverse components, without changeover time, only by changing CNC program.

Precision

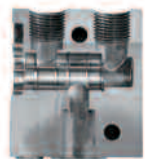
- ATS (Advanced Thermal Stabilization) guarantees highest precision and repeatability as the temperature of all elements remains stable.

Variety of Machining

- Machining on 6 faces in one clamping
- Drilling, milling, turning, recessing, broaching, honing, etc.
- All machining operations can be executed in vertical, horizontal and inclined position
- Both-end-turning on one station
- Deep-hole drilling with apposite unit
- Recessing with tilting unit (U-axis): centric, eccentric and inclined position
- And much more.



Round table with adjustable clamping devices



Multifactor, simple and reliable

Proven investment

- Due to its modularity, Multifactor remains a machining system easy to retool and equip and therefore a safe investment for the future.

Profitability

- Mechanical or CNC units? Mikron uses the right one in the right place.

Productivity

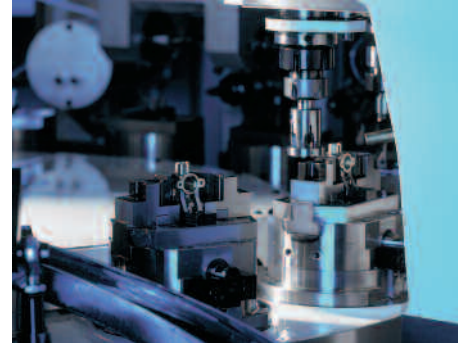
- Dynamic cinematic allows 60 cycles per minute
- Minimal non-productive times as workpiece rotates while table indexes.

Precision

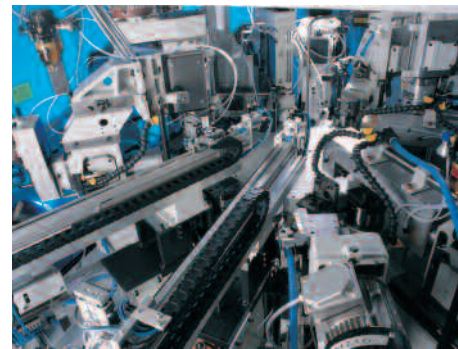
- High repeatability thanks to compact machine construction, precise table indexing, and perfectly synchronized clamping and machining units
- Repetition accuracy $\pm 0.004\text{mm}$.

Variety of Machining

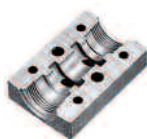
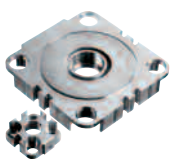
- Number, type and combination of machining units according to machining requirements
- Mechanical machining units for repetitive operations
- CNC units for complex machining geometry where greater flexibility is required.



Round table with clamping system



View of working units and loading/unloading system



Time-tested Mikron know-how

The applications realized successfully on Mikron Machining Systems in the field of pneumatic and hydraulic cover a wide range. Typical examples are:

- Pressure processing
- Hydraulic and pneumatic cylinders
- Vehicle and industrial hydraulics
- Solenoid and industrial hydraulics
- Proportional and control valves
- Pumps
- System technology

There are also other important industries, such as automobile, aeronautic, medical, electro domestic, electrical, electronic, writing instruments etc. that trust the production of many components to the reliability of Mikron Machining Technology for accuracy and quality.

Worldwide, more than 7000 Mikron transfer machines are producing hundreds of millions of parts, "round the clock" under most demanding conditions. We would be pleased to work out an ideal solution for the complete machining of your workpieces.

Mikron Machining Technology – partner for a complete product life cycle.

Multistep XT-200

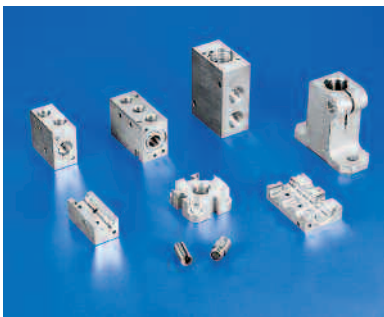
For utmost flexibility: This machine is especially designed for quick changeover. It covers a wide range of operation requirements as 5 1/2 faces can be machined in only one clamping. The output can be increased by expanding the Multistep XT-200 with additional machining modules.

Mikron NRG-50

Revolutionary machine concept, which skillfully combines productivity and flexibility. Family of workpieces can be machined economically with short changeover times.

Multifactor

Complies to extraordinary demands regarding accuracy and productivity. The time-tested mechanic command is extremely reliable. Selective use of CNC units increases flexibility.



Parts for solenoid valves and pneumatics units.



Parts for pneumatic and hydraulic units.



Mikron Machining Technology: Concentrated Action of Machines and Cutting Tools

Transfer machines and related cutting tools from only one manufacturer; this is a unique concept and only offered by Mikron Machining Technology.

Among experts, Mikron Tool has an excellent reputation as a manufacturer of small and medium size special cutting tools.

The offer is including: Multifunctional special tools, the CrazyDrill line, the MiquDrill line and profile milling cutters.





References:



Mikron Service Solutions flexible, modular, customer oriented

Mikron supports the customer with tailored service solutions on four levels.

4 Service Levels

- 
Spare Part Service –
for a dependable supply of spare parts
- 
Xchange Service –
to minimize downtime
- 
Product Support –
for the optimum maintenance of your equipment
- 
Business Support –
to guarantee continuous use of your investment

You can select service options from each level and create your specific service solution. An optimum service strategy will add to your profit and product quality.

For more information please contact your service line. We will be pleased to advise you.

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