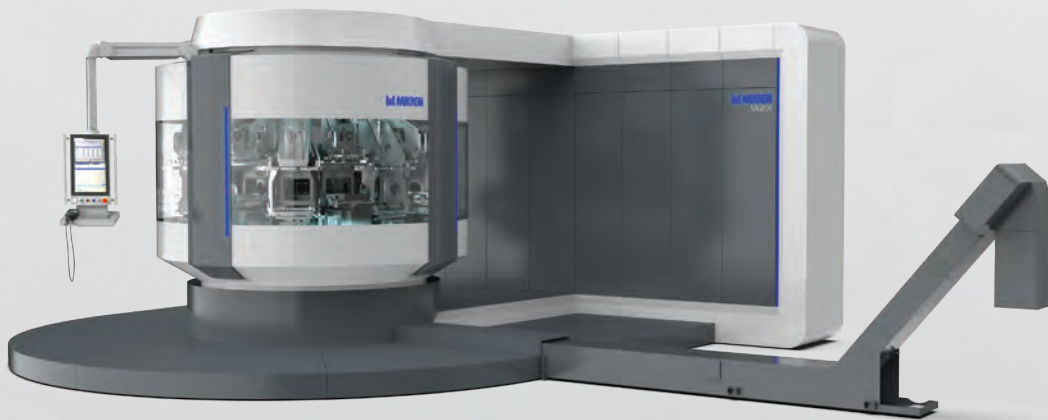
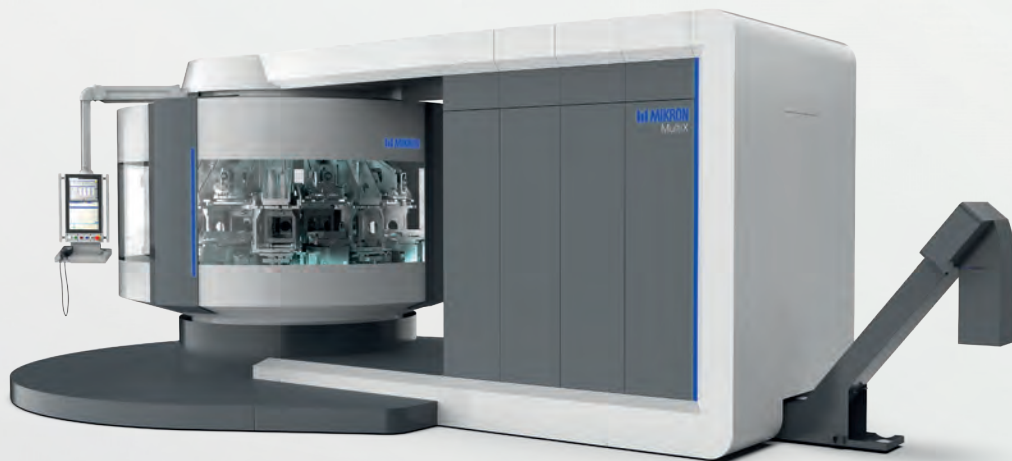


Mikron MultiX



New unrivalled possibilities - The platform for dedicated easy reconfigurable machining solutions

Mikron MultiX

New unrivalled possibilities - The platform for dedicated easy reconfigurable machining solutions

The platform

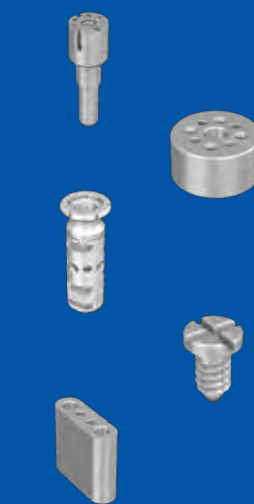
- » **Configured for your specific needs such as:** productivity, precision, stiffness, reconfigurability, size, cost, power...Freely combine the platform elements according to the Mikron MultiX rules and set up your machining solution. By choosing the optimal size and architecture for every unit and station you achieve superior productivity by less investment costs.
- » **Simple Reconfiguration** for a new application with a revolutionary – patented – concept. Save the investment and reconfigure the machining system, once the application for which the system was initially configured is no longer needed.

All standard machining-units are exchangeable and very precisely repositionable on all MultiX types in a very short time - they fit for any configuration you need.

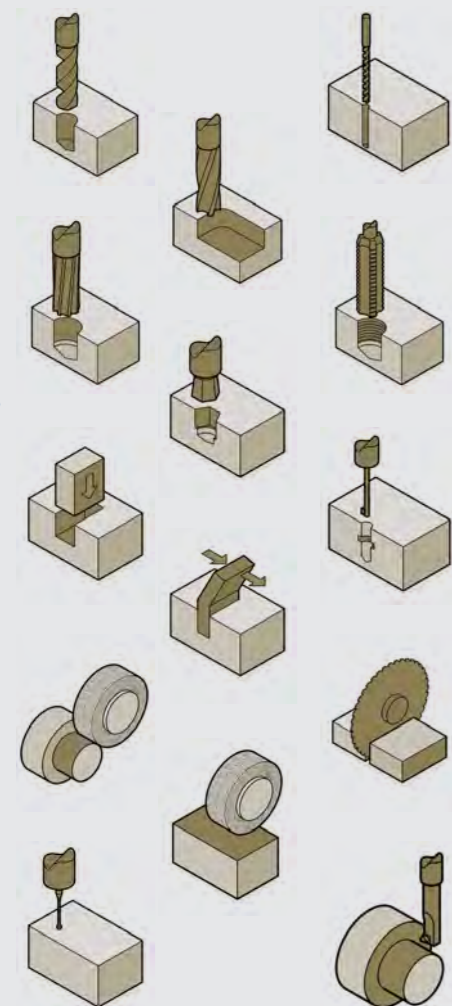
- » **Distinct technical features:** Direct machining from the bar (turning or milling), 3 machining units working simultaneously at each station, multispindle-lathe and transfer machine capabilities in one single machining system.
- » **A set of diverse machining units in different sizes** to serve all the requirements you might need. The machining units differ in size, number of axis, size of compatible spindles, strokes, stiffness, etc..
- » **3 machine layouts**, according to customer demand
- » **Scalable:** Start producing with a single cycle Mikron MultiX configuration and add supplementary cycles according to volume growth.

We build your
dedicated
machining
solution for the
production of
50 up to
5'000'000 parts.

YOUR APPLICATIONS



HORIZONTAL AND VERTICAL MACHINING OPERATIONS...



Configured for your specific needs such as: productivity, precision, stiffness, reconfigurability, size, cost, power... Freely combine the platform elements according to the Mikron MultiX rules and set up your machining solution.

MACHINE BASIS



TRANSFER TABLES

8 - up to 24 stations for different machine basis with optimized mass to reduce the transfer time.



MACHINING UNITS

A set of diverse machining units in different sizes to serve all your requirements.

All standard machining-units are exchangeable and very precisely repositionable on all MultiX types in a very short time - they fit for any configuration you need.



FIXTURES

A full set of workpiece clamping and positioning systems for all requirements

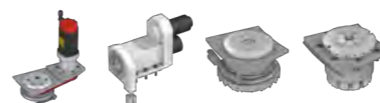
- » 3-axis and 4-axis operations with vertical or horizontal clamping axis
- » 5-axis operations (swiveling axes) with very fast exchangeable clamping interface in workpiece-axis*

Fix fixtures



Indexing fixtures

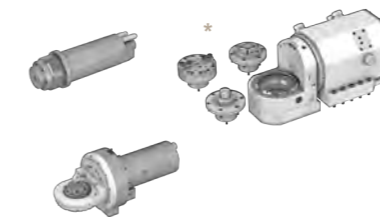
(with motor on table or onto station)



Rotating fixtures

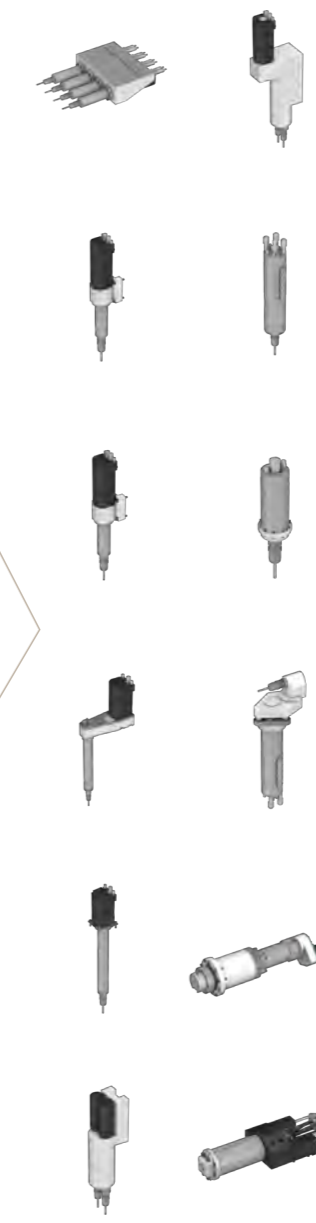


B- and BC- axis



SPINDLES

Diverse Spindle types like motorspindles, high-power electrospondles, doublespindles, U-axis in diverse diameters.



ENCLOSURES

Ø 1.80m



Ø 2.60m



Ø 3.60m



Ø 4.00m



LOADING / UNLOADING

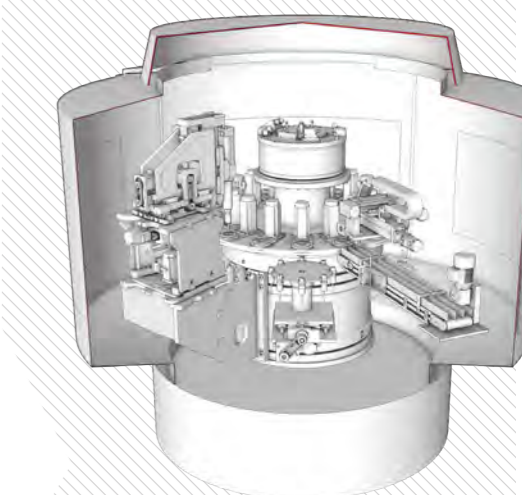
Standard: 3-axis pick and place



Up to 6-axis robot



YOUR DEDICATED MACHINING SOLUTION



Easy reconfiguration
Remove the unit support box (with machining units) and reposition with highest repeatability due to a zero point clamping system (patented concept).

SAVE YOUR INVESTMENT RECONFIGURATION FOR A NEW APPLICATION



Remove the unit support box (with machining units) and reposition with highest repeatability.



The positioning repeatability and accuracy is guaranteed by zero point clamping systems under every box.



Simple Reconfiguration for a new application with a revolutionary – patented – concept. Save the investment and reconfigure the machining system, once the application for which the system was initially configured is no longer needed.

All standard machining-units are exchangeable and very precisely repositionable on all Mikron MultiX types in a very short time - they fit for any configuration you need.

Build your next dedicated machining solution by simply exchanging the units. Different toolholders are available and multiple tools can be mounted on each unit.

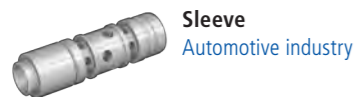
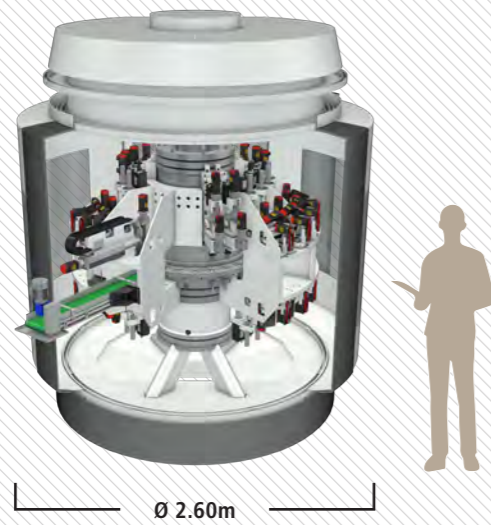
Software adaption in a few clicks

Modular software and Mikron HMI designed to be extremely user-friendly and adaptable to every configuration.

3 CONFIGURATION EXAMPLES... OF THOUSANDS OF POSSIBILITIES FOR YOU

MIKRON MultiX S-24

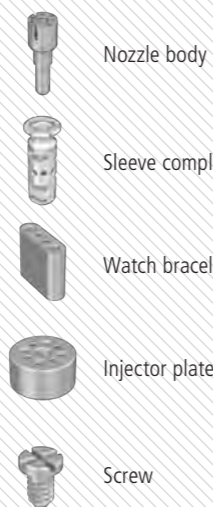
SPEED



CONFIGURATION WITH FOCUS ON SPEED AND PRODUCTIVITY. MAINLY FOR THE HIGH VOLUME PRODUCTION OF SMALL PARTS

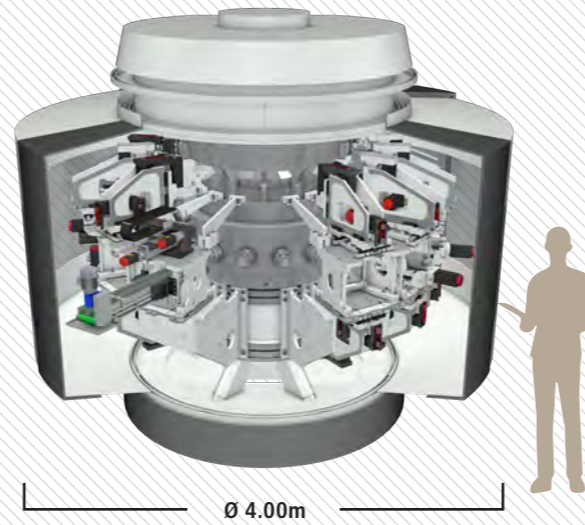
- » 24 stations
- » 3-axis machining units
- » Double cycle
- » Rotating collets / Turning units
- » Typical part size Ø20x60mm

Application samples for similar Mikron MultiX configurations



MIKRON MultiX P-16

POWER



CONFIGURATION FOR HIGH VOLUME PRODUCTION OF FIST SIZE PARTS. INDEXING THROUGH VERY STIFF AND REPEATABLE HIRTH COUPLING.

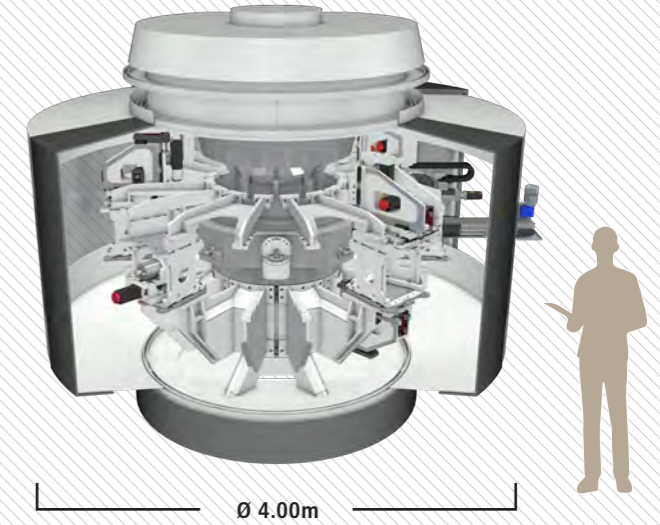
- » 16 stations
- » 3-axis machining units
- » Spindle with HSK-63 / -40 / -32
- » Automatic tool changer
- » Typical part size Ø40x80mm

Application samples for similar Mikron MultiX configurations



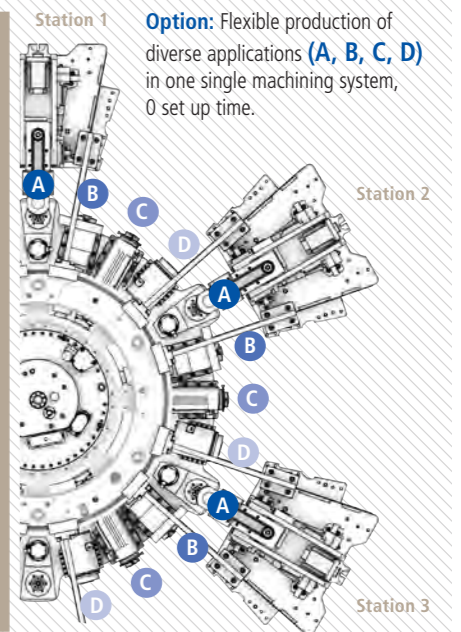
MIKRON MultiX C-8

FLEXIBILITY



CONFIGURATION FOR HIGHEST FLEXIBILITY AND MASS PRODUCTION.

- » 8 Stations
- » 4 x horizontal clamping, turning
- » 4 x milling 5 axis
- » Spindle with HSK-63 / -40 / -32
- » Typical part size Ø80x80mm



Mikron
4.0 ready

CONTROL

FANUC Series 30i, ideally suited for complex high-speed, precision machining, equipped with multiple axis and multi-path functionalities.



MIKRON HMI - SOFTWARE

The modular Software and the Mikron HMI is designed to be extremely user-friendly and adaptable to every configuration – it makes operating, configuring and re-configuring your machine easy and efficient. Many Software options lead to a constant cycle time optimization and supports you in all different stages.

- » For best adaption: Standardization of mechatronic platform elements, customizable components
- » For best performance: Production scheduling, temperature monitoring, reduced inactivity
- » For best quality: SPC monitoring, automatic correctors management
- » For highest security: System data backups

miS 4.0 ready

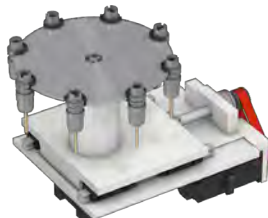
Collect data, monitor machine performance as well as conditions and predict maintenance tasks.

The miS4.0 module is an IPC that collects, stores and normalizes data, allowing you to have complete overview and control of your production and machines.

- » Production Monitoring
- » Condition Monitoring
- » Failure Analysis
- » Mikron cloud and IoT platform (SAP Leonardo)

AUTOMATIC TOOL CHANGERS

- » ATC with 4 positions, integrated in spindle
- » HSK-F40
- » ATC with 8 positions on disk, in horizontal unit place embedded
- » HSK-A40
- » ATC with 20 positions on chain, in horizontal unit place embedded
- » HSK-A32



3 MACHINE LAYOUTS



Compact



Classic



Extended

Platform

Combine freely the platform elements and configure your machining solution optimized for your specific needs.



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