



DM2 H

Horizontal transfer machines



DM2 machines

Company overview

Mikron Machining is the leading partner for high performance machining systems to manufacture complex and precise metal components in high volumes. Our machining systems lay the basis to considerably reduce production costs and optimize resource utilization.

With our global presence and our skilled local experts, we are trustfully serving our customers.

Founded in 1985, DM2 joined the Mikron Group in 2024, marking an important step in the expansion of Mikron Machining's rotary transfer machine offering. DM2 specializes in the manufacture of larger, precision components, with particular expertise in fittings and valve applications. Its product portfolio perfectly complements Mikron Machining's existing capabilities, strengthening the ability to serve demanding industries where productivity, accuracy, and reliability are essential.

DM2 TRANSFER MACHINES



Vertical transfer machines



Horizontal transfer machines

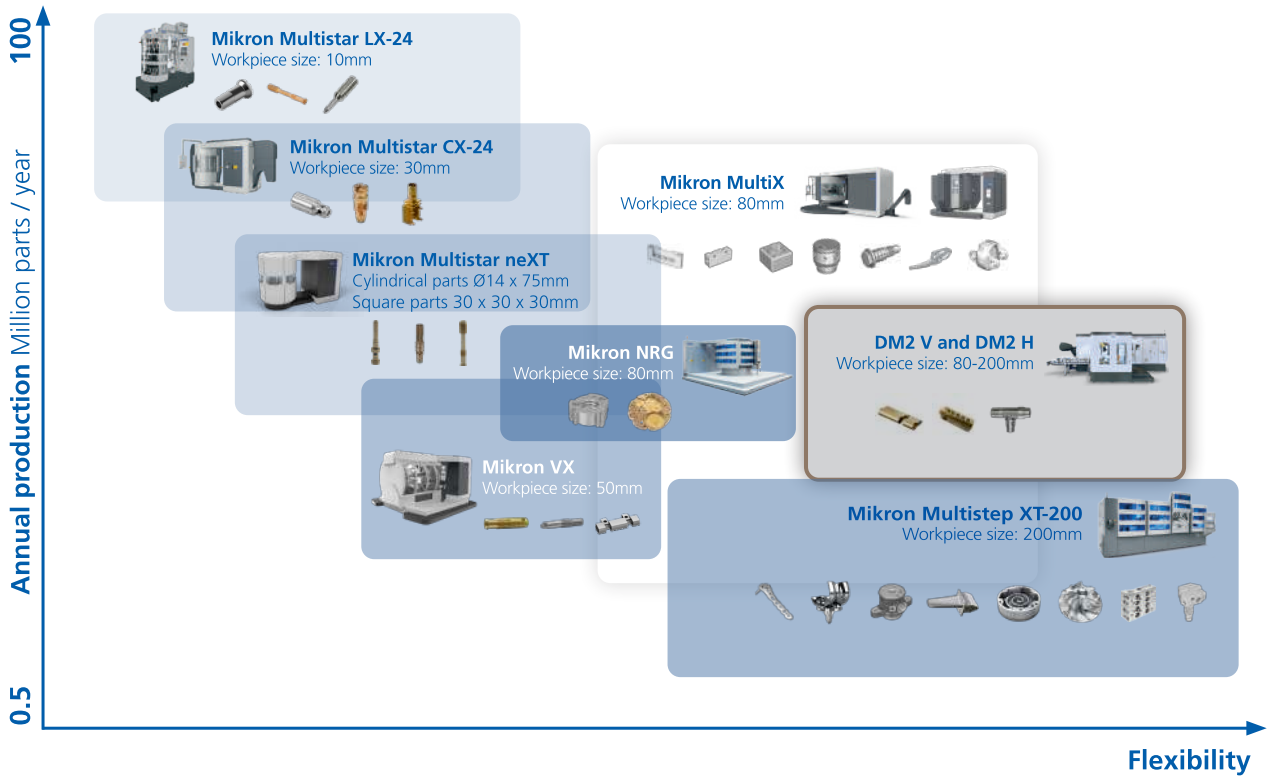


Technomat (horizontal transfer machine)

Quality and reliability are at the core of everything we create.

Machining Systems

Customized high-performance machining solutions



With over 110 years of experience, rooted in Swiss innovation and quality culture, we are a long term process and technology partner to industry leaders. We show passion for precision and reliability in all we do.

Blank	Pre-machining	Loading Systems	Machining	Unloading Systems
<ul style="list-style-type: none"> » Cast » Bar » Wire » etc. 	<ul style="list-style-type: none"> » Mikron RP-32 » Mikron TR-42 » Mikron TF-120 	<ul style="list-style-type: none"> » Pick & Place » Robot » Belt conveyor » Vibrator » Pallet 	<ul style="list-style-type: none"> » Precise complete machining on Mikron systems » Dedicated Mikron cutting tools 	<ul style="list-style-type: none"> » Automatic » Manual » Deburring » Washing

Customized high-performance machining solutions with:

- » Loading and unloading system
- » Pre-processing system
- » Dedicated Mikron cutting tools

DM2

Application samples, fittings and valves



4 parts/min

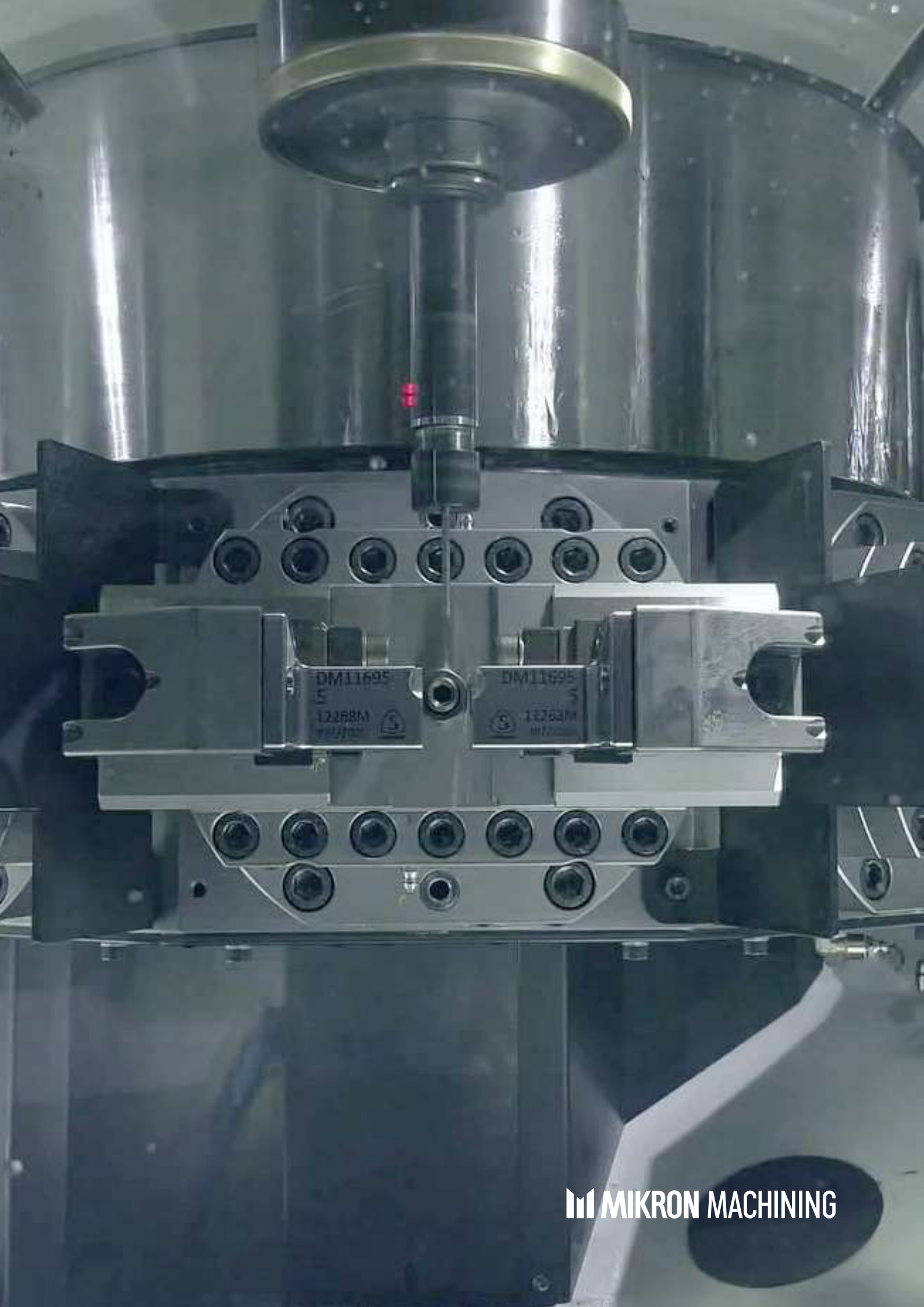


7.5 parts/min



3 parts/min





DM2 H

Horizontal table machine



HIGHLIGHTS

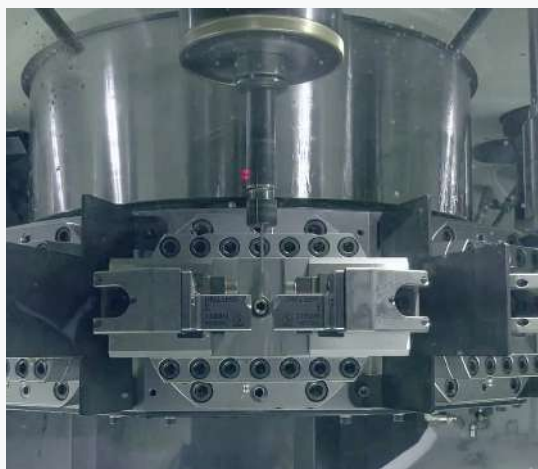
Our horizontal table machines offer the following features:

- Horizontal table with upper, lower and horizontal units
- Very rigid construction, heavy duty recessing head
- From bar stock maxi dia 70mm or with robot from blank
- Up to 30 parts / min

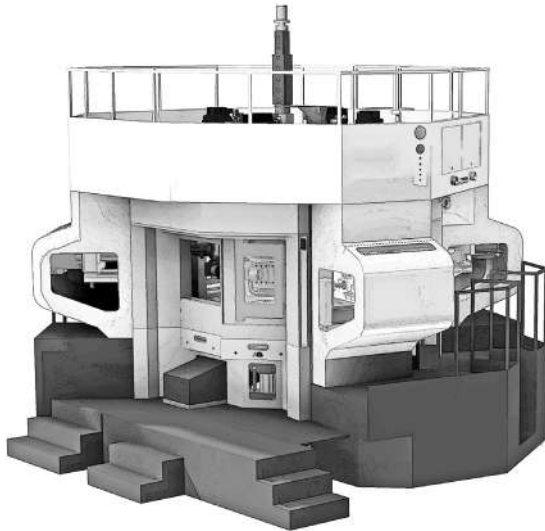
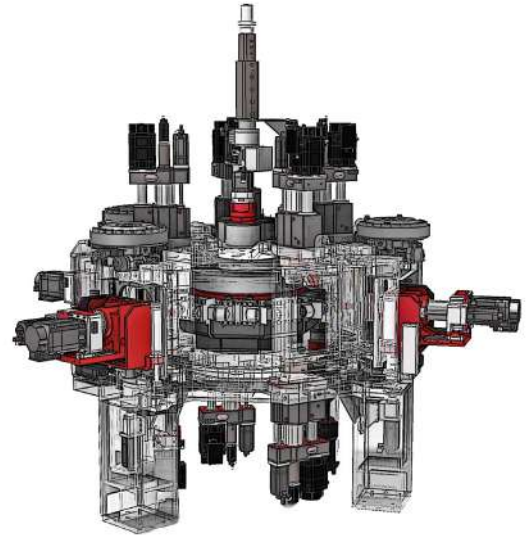
TABLE AND INDEXING

Machine type: horizontal table with double or triple Hirth system (Hirth dia 400/1000mm)

Table diameter	Center of clamping device = 1650 max
Indexing Accuracy	Hirth - double or triple system +/- 0.0015mm
Indexing speed Table	0,7/1,3s
Number of stations	Maximal 12, 8 – 12
Number of units	Maximal 30
Working room with	200 x 200 x 150mm



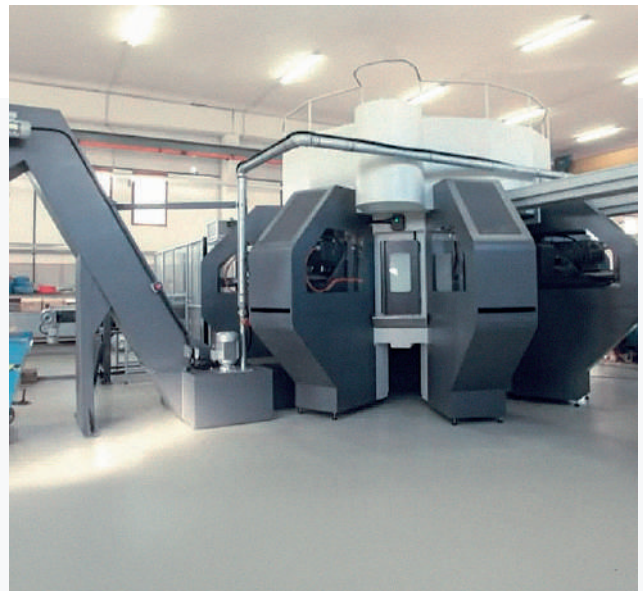
Product and applications



Very solid construction with units from the lower side, horizontal, or upper side



High flexibility with A-axis clamping devices



Most of our machines have **up to 4 Robots** for **high productivity**

DM2 H

Horizontal table machine

T FITTING; ELBOW FITTING

Machine type	Horizontal table, 12 stations with units dia 150, 24 working units, clamping dia 250
Material	Steel C-10; C-20; 11SMnPb37
Part size	½" – 2"
Blank part	Forged blank part
Output	10 parts/min – 4 parts/min
Highlights:	<ul style="list-style-type: none"> - 2 solutions a.) high production b.) high flexibility - Highest flexibility for smaller lot sizes for L and T fittings - Robot loading and QC check - Very strong recessing unit (spindle dia 160mm)



T-FITTING; 45° FITTING

Machine type	Horizontal table, 9 Station; spindle dia 200; 12 working units of which 4x 3-axis units with TC 8 Turning unit; Recessing unit; shread cutting unit
Material	Steel C-10 and C-20
Part size	½" – 2"
Output	1 part/min – 3 parts/min
Highlights:	<ul style="list-style-type: none"> - Automatic loading with Robot - Highest flexibility for smaller lot sizes - 3 axis units with tool changer - Very strong recessing unit (spindle dia 200mm) - With 45° inclined units or with A-Axis (rotating chuck)



T FITTING; ELBOW FITTING

Machine type	Horizontal table, 12 stations with units dia 150, 24 working units, clamping dia 250
Material	Steel C-10; C-20; 11SMnPb37
Part size	½" – 2"
Output	10 parts/min – 4 parts/min
Highlights:	<ul style="list-style-type: none"> - Automatic loading with Robot - Highest flexibility for smaller lot sizes - Very strong recessing unit (spindle dia 160mm)



Application samples

FITTINGS

Machine type	Horizontal table, 12 stations with units dia 150, 24 working units, clamping dia 250
Material	Steel
Part size	½" – 2"
Blank part	Forged blank part
Output	10 parts/min – 4 parts/min
Highlights:	<ul style="list-style-type: none"> - Automatic loading with Robot - OP10 & OP20 with automatic change - Highest flexibility for smaller lot sizes



AUTOMOTIVE

Machine type	Horizontal table, 10 stations with units dia 110, 10 working units, clamping dia 200
Material	Brass, lead free Brass
Part size	6" – 30"
Output	20 parts/min
Highlights:	<ul style="list-style-type: none"> - Automatic loading with Robot - Highest flexibility for smaller lot sizes - Very strong recessing unit



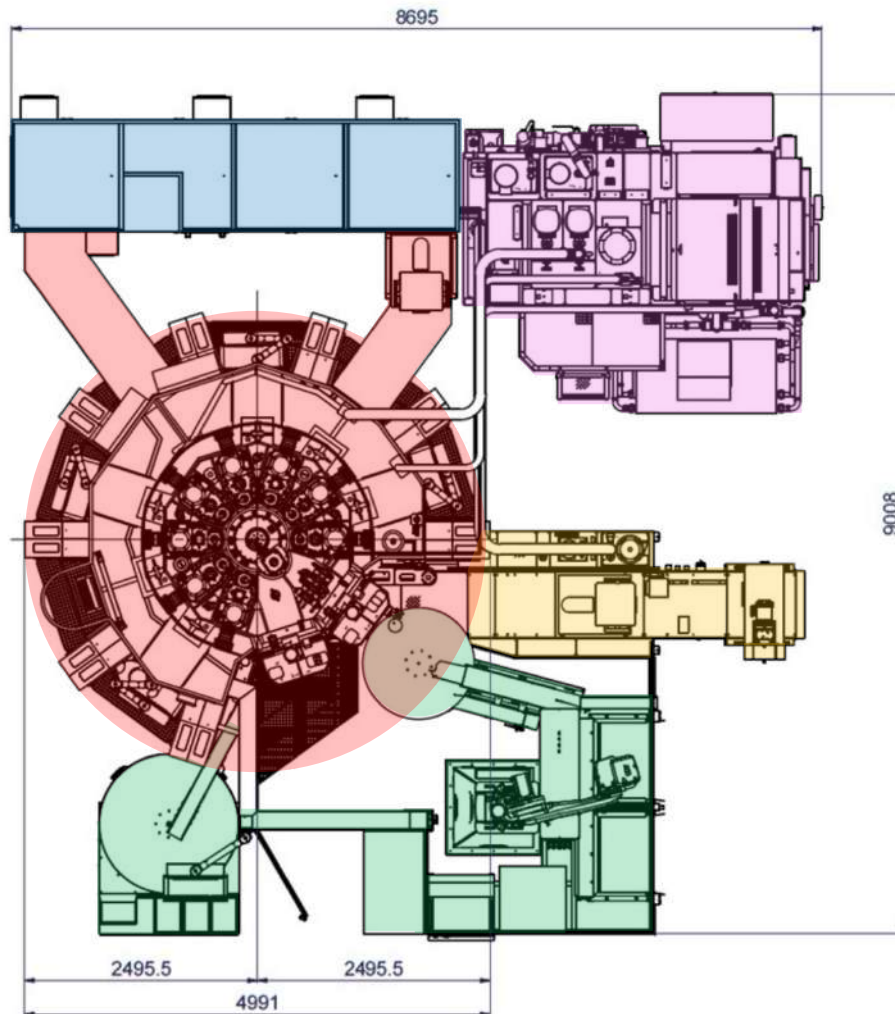
45° FITTING AND FLANGE

Machine type	Horizontal table, 9 Station; spindle dia 200; 12 working units of which 4x 3-axis units with TC Turning unit; Recessing unit; Thread cutting unit
Material	Steel Inox C-20 and C-40
Part size	½" – 2"
Output	1 part/min – 3 parts/min
Highlights:	<ul style="list-style-type: none"> - Automatic loading with Robot - Highest flexibility for smaller lot sizes - 3 axis units with tool changer - Very strong recessing unit (spindle dia 200mm-dia 160mm) - With 45° inclined units or with A-Axis (rotating chuck)



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Horizontal table machine



LEGEND

- Machine
- Feeding system
- Unloading
- Chip conveyor
- Oil & Filter system

Weight approx. 25 tons



 **MIKRON MACHINING**

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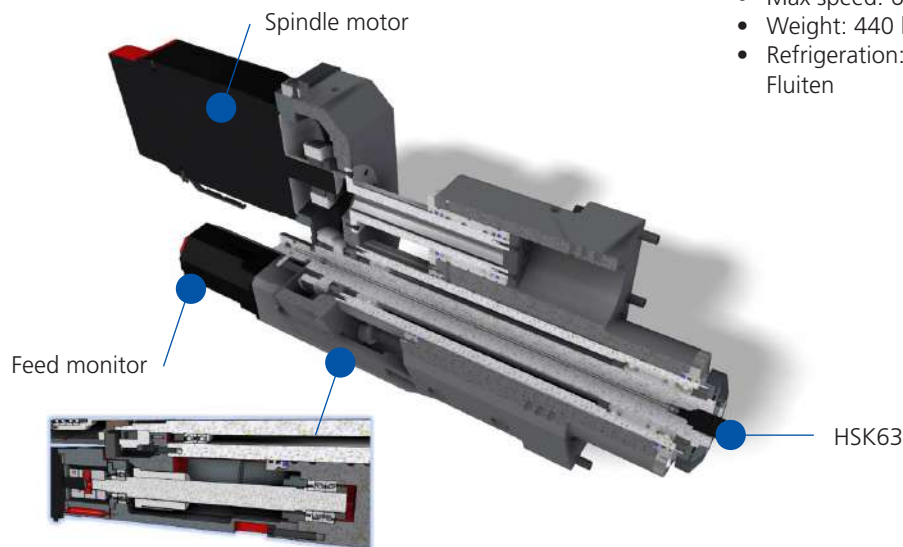
Horizontal table machine

HIGHLIGHTS

- Standard units in different sizes
(example Size 150, others are 100, 125, 160, 200)
- Control Fanuc
- Very rigid grooving and turning head

STANDARD DRILLING UNIT SIZE 150

- Sleeve: 0150
- Stroke: 150 mm
- Bearings: 3
- Axial force: 7500 N
- Spindle: 70 Nm - 11 kW (max 15 kW)
- Feed: 20 m/min
- Max speed: 6000 rpm
- Weight: 440 kg
- Refrigeration: Through with Johnson Fluiten



Standard units size 150

STANDARD TURNING UNIT SIZE 150

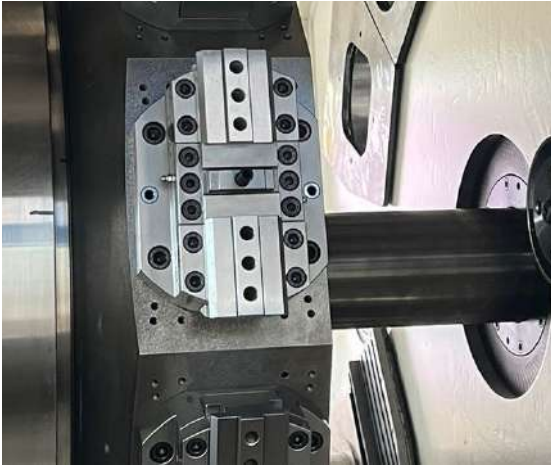
- Sleeve: 0150
- Stroke: 150 mm
- Bearings: 4
- Axial force: 7500 N
- Spindle: 35,81 Nm - 7,5 kW (max 11 kW)
- Feed: 20 m/min
- Max speed: 3500 rpm
- Weight: 440 kg



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Clamping
devices



SELF CENTERING CHUCK, 2 JAWS

Base dia. 200-350 mm

Stroke: 25/40 mm

Range from dia 10 - dia 70



SELF CENTERING CHUCK, 3 JAWS

Base dia. 150-260 mm

Stroke: 16 mm

Range from dia 25 - dia 100



COLLET

DM2 H

Horizontal table machine

NC control

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



Mikron Digital Solutions

Accelerate your digital journey

Use data, advanced analytics, machine learning and AI to reinvent your manufacturing ecosystem to enable superior outcomes. Mikron Digital Services drive more efficient and sustainable operations, greater productivity, customer relevance and growth.

miTool

The next level of tool monitoring

Features

- Tools monitoring system
- Up to 200 real-time monitored channels
- Breakage control and wear detection
- Artificial intelligence algorithms
- End of life prediction and reporting
- Optimized machine stops
- Adaptive control
- Waveforms history database
- Events notification

miConnector

The machine data connected

Features

- Machine data gateway
- Data sharing with customer PDA via OPC-UA protocol
- Ready for cloud data exchange, via MQTT protocol
- Security guarantee by data encryption
- Connect directly to your machine controller
- Different protocol available for controller connection
- Optionally collect Input signals (e.g. sensors) from field

miMachine

The machine life cycle

Features

- Web based dashboards
- Machine & peripherals status
- Production and reporting (OEE)
- Condition monitoring with notifications
- Failures analysis (pareto)
- Tools life history
- DB for data persistence
- Digital BoM and serial Nr. management
- Back-end integration with Mikron ERP

miMaintenance

The maintenance by usage

Features

- Machine maintenance management
- Automated machine expertise for maintenance by usage
- Machine's devices life status and performance
- Real-time condition monitoring
- Anomalies detection and notification
- Artificial intelligence algorithms
- Support for preventive maintenance planning
- Components end of life prediction and reporting
- Back-end integration with Mikron ERP

miEnergy

The energy consumption management

Features

- Energy consumption monitoring system
- Machine and peripherals status
- Focus on CO2 footprint reduction
- Different characteristic (current, air, oil, water, waste, temps)
- Anomalies detection
- Machine consumption dashboards, report and data collection
- Adaptive control based on real needs
- Energy consumption improvement replacing old/obsolete parts
- Consulting, redesign and process improvements to reduce waste

miRemote X

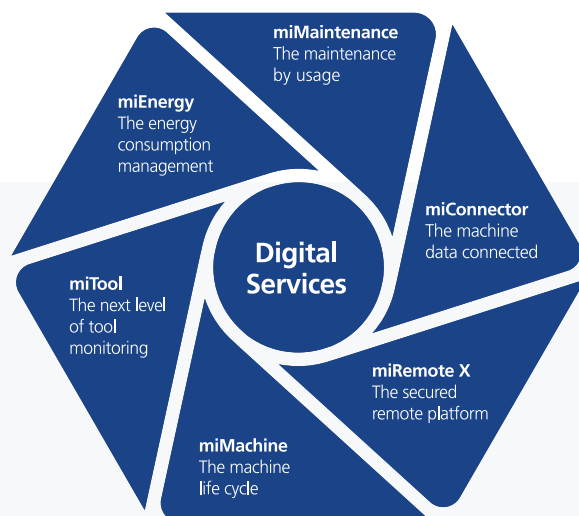
The secured remote platform

Features

- Secure connection based on OpenVPN standard
- Relies on secured Cloud for performance and security
- Certified process in accordance with IEC 62443-4-1
- Customer is in control to give access to the machine
- Connection reporting and traffic monitoring
- PSIRT (Product Security Incident Response Team) monitors vulnerabilities daily
- Regular security updates of the platform and of the specific devices

Your complete digital toolbox from sensor to AI.

A modular portfolio designed to enhance efficiency, quality, and process stability.





 **MIKRON MACHINING**

Mikron Machining

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A company of **Mikron**

