EMUGE FRANKEN

brother
at your side



EMUGE-FRANKEN and Brother – The Perfect Synergy
Optimizing your Machining Productivity



Herzlich Willkommen!

Carsten Schmitt
EMUGE-FRANKEN
Export Management



Welcome!

As one of the leading German precision tool manufacturers, we are pleased to present this compact product brochure to give you an insight into our machining solutions with Brother machine tools, one of the most respected Japanese machine tool manufacturers!

You will quickly recognize our synergies for optimizing your machining productivity, not only in the area of the world's fastest technologies for thread making, but also in general when it comes to cycle time and energy savings.

We combine productivity, pioneering innovations and our commitment to sustainable manufacturing solutions. Benefit from this unique partnership and let us convince you of our products and technologies.
We look forward to supporting you together with our worldwide partner network!

With over 100 years of experience and a global team of 2,000 employees, EMUGE-FRANKEN is a trusted leader in precision tools for drilling, thread cutting, gauging, clamping and milling. Our mission is to optimize your manufacturing processes while contributing to a more sustainable future.

At your side.



ようこそ!

Masaya Nakayama
Brother Technology Center Frankfurt
General Manager

Creating the future with the “At your side.” spirit

Since being established in 1908 as a sewing machine repair business, the Brother Group has pursued the diversification and globalization of business in its history of more than 115 years. Underlying our activities at all times is the prompt provision of excellent value based on the “At your side.” spirit, which always places our customers first.

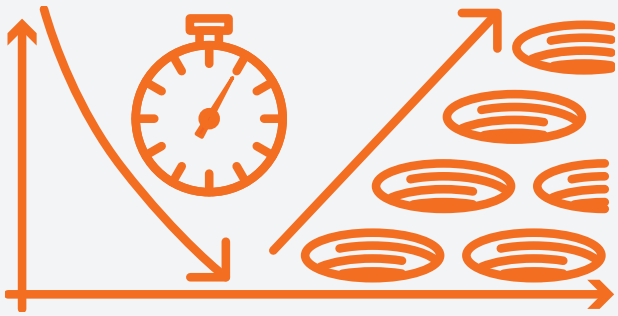
We believe that being useful and bringing joy to our customers through the Brother Group’s products and services will bring us happiness.

Brother collaborates with EMUGE-FRANKEN in various regions around the world, and our customers in a wide range of industries are very pleased with our partnership.

We are proud to be working with a customer-oriented company with such advanced technology, and we will continue to work together to solve our customers' problems, with "At your side." spirits.



Machining Time Down, more Parts



Energy Cost Down, Efficiency Up



Tooling Solutions

EMUGE PunchDrill



High feed drill

- Double feed with the same axial force
- Up to 50 % time savings in aluminium cast alloys (> 7 % Si content)
- Also available as step drills and for pre-casted holes
- Drilling depth up to approx. 15 x D, diameter 2.5 mm - 25 mm

FRANKEN Expert



Circle segment end mill for advanced 5-axis operations

- Up to 90 % time saving with improved surface qualities (compared to ball-nose end mills)
- Enables machining with a larger tool path distance during roughing, pre-finishing and finishing operations

FRANKEN Cera-Cut



Ceramic end mill

- For roughing and finishing with high cutting speeds in heat-resistant superalloys or hardened tool steels
- Proven HFC geometry with high metal removal rate compared to standard carbide end mills

Tool Holding Solutions

EMUGE



Speedsynchro® Mini

- Up to 90 % less energy consumption
- By multiplying the synchronous tapping speed more than 4 times: less thread cycle time (up to almost -40 %), more parts!

EMUGE



Softsynchro® XS (extra short)

- Super short overall tap holder length
- Minimum length compensation extending the tool life of the tap and improving the thread quality
- MQL versions on demand

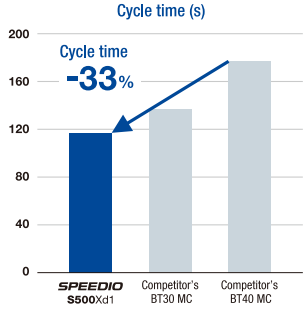
SPEEDIO Blue Technology

Solves Four Waste Elements at Production Sites

Eliminating waste elements at production sites leads to reduction in greenhouse gas emissions, such as carbon dioxide and methane.
Brother's optimal and compact design reduces wasted time, resources, and energy during parts machining.
We are striving to reduce environmental impact by conducting product life cycle assessment, which quantitatively evaluates environmental impact at each stage of production, transportation, use, disposal, and recycling.

Wasted time reduction

Wasted time is reduced by minimizing non-cutting time in the machining cycle time and reducing setup time and downtime.



SPEEDIO Recovery Tools
Recovery Support

SPEEDIO Setup Tools
Setup Support

Wasted resource reduction

Wasted recourses are reduced by using machining adjustment support that prevents cutting defects and production support such as real-time monitoring.

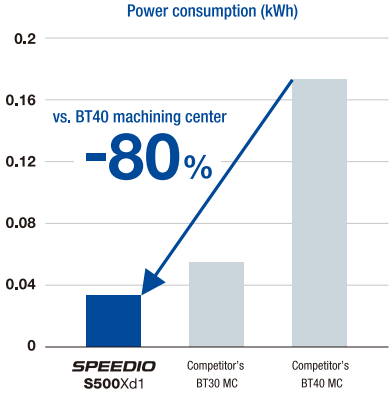
SPEEDIO Production Tools
Production Support

SPEEDIO Adjust Tools
Adjustment Support

SPEEDIO Recovery Tools
Recovery Support

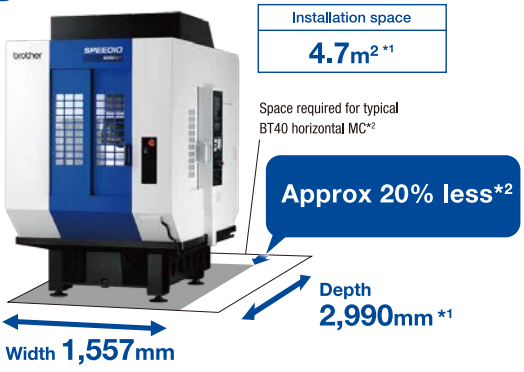
Wasted energy reduction

Optimal design eliminates all waste, including excessive power consumption and air flowrate, achieving industry-leading energy-saving performance.



Wasted installation space reduction

Compact design reduces wasted space with less restrictions on installation locations.



*1. Dimension including coolant tank
*2. Compared to BT40 horizontal MC with equivalent travels

Tap Holder Speedsynchro® Mini



The EMUGE Speedsynchro® Mini has an internal transmission gearing to accelerate the cutting tool speed by more than 4 times (up to almost 12,000 rpm) providing time savings of up to almost 40 %, as well as energy savings and reduced machine spindle wear. Simple programming by synchronous tapping cycle, with Softsynchro® technology that extends the tool life of the tap.

Less machining time – more parts!

Standard threads – M1-M6!

Less energy – more savings!

Less lubricant – better environment!

Time Saving



Time for 54 threads

Synchro	54 s
Speedsynchro® Mini	32 s
Saving	**22 s**

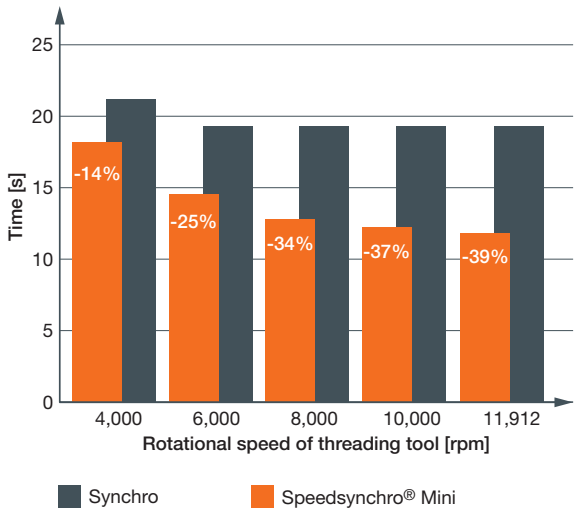
Faster tapping

Reducing cycle time up to almost 40 % and increasing production capacity for tapping up to 50 %.

Better thread quality

The internal transmission gearing provides excellent tapping performance with precise thread depths. Unlike tapping attachments, a Speedsynchro® Mini does not switch the direction of rotation. Annoying differences and deviations of the thread depths are eliminated

Time comparison in the production of 24 threads M2



Energy Saving



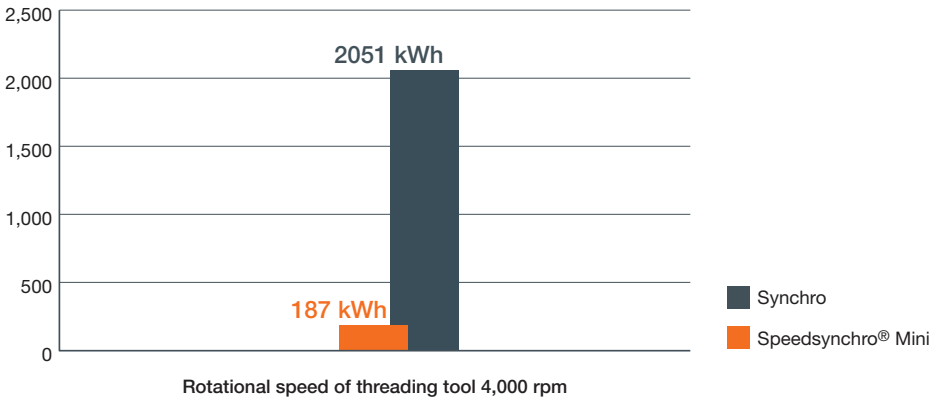
Energy consumption for 54 threads

Synchro	27 Wh
Speedsynchro® Mini	16 Wh
Saving	**11 Wh**

Efficiency up, energy costs down

The energy consumption of the machine spindle is determined by the acceleration and deceleration of the tool to the programmed spindle speed.The higher the spindle speed, the higher the energy consumption of the machine. This technology reduces the speed of the spindle by a factor of 4.412 by use of an internal transmission gearing system.
This results in a reduction of energy consumption on the machine spindle of up to 90 %, depending on the Speedsynchro® Mini or or synchronous tap holder version (e.g. Softsynchro®).
The energy saving is relatively independent of the thread size and is mainly determined by the spindle speed.

Comparison of the power consumption in the production of 1,000,000 threads M6



Rotational speed of threading tool 4,000 rpm

Machine Plan

S500Xd2 - 5AX

SPEEDIO's bestselling model further expands the range of application

Enlarged machining area and using a 28-tool magazine expand target workpieces and promote process integration.

Advanced CNC-D00 controller improves environmental performance and productivity. Extensive range of specifications available to meet a wide variety of machining applications.





Spindle taper	BT/BBT30
Spindle speed (min^{-1})	12,000 / 10,000 High torque / 20,000 (100T only) / 27,000
Travels [XxYxZ]	500 x 450 x 300/380
Max. loading capacity (kg)	400
Required floor space (mm)	1,560 x 2,081
Tool storage capacity (pcs.)	14 / 21 / 28 / 100
Simultaneous 5-axis spec. (5-axis)	Available

Innovative High-Feed Drill



EMUGE PunchDrill

Performance diversity
thanks to advanced geometry

The advantages of the tool are shorter machining times and a high metal removal rate. Higher productivity and saved resources are positive results. The tool life is comparable to conventional drilling tools despite the higher feed rate. The high self-centring capability of the drill tip enables the best possible positioning accuracy on the drill hole. The EMUGE PunchDrill is also available as a step tool. A product extension for pre-cast holes is already planned.

Time Saving





Time for 54 holes

BasicDrill	43.8 s
PunchDrill	30.4 s
Saving	**13.4 s**

Up to 50 % time saving
and sustainable increase in productivity

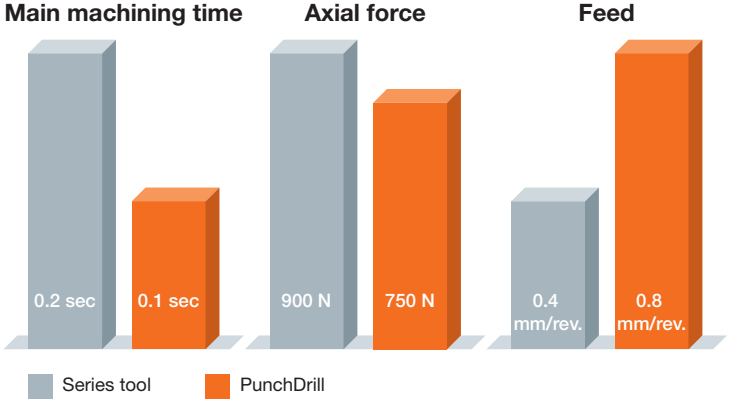
The EMUGE PunchDrill reduces production main times. Time savings of 50 % and more are within reach with this solid carbide drill with reduced or unchanged axial force. The EMUGE PunchDrill is suitable for machining cast aluminium alloys with at least 7 % Si content.

Energy Saving



Energy consumption for 54 holes

BasicDrill	14.3 Wh
PunchDrill	9.6 Wh
Saving	**4.7 Wh**



Machine Plan

S

High performance model suitable for a broad range of machining applications

Extensive spindle specifications and machine sizes
Further pursuing high productivity and high reliability

Fiscal 2024
Energy Conservation Grand Prize
(Product & Business Model Category)
Sponsor: The Energy Conservation Center, Japan

S300Xd2, S500Xd2, S700Xd2
(S700Xd2-100T excluded)



S300 Xd2



S500 Xd2



S700 Xd2

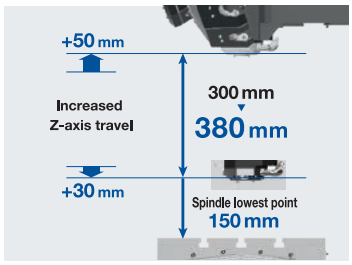
Increased Y/Z-axis travels

The Y-axis travel has been increased from 400 mm to 450 mm. The Z-axis travel can be selected from 300 mm and 380 mm. These expand the range of target workpieces.

Y-axis travel
450 mm

Z-axis travel
300 mm (standard) 380 mm (optional) *1

*1. Cannot be selected for the S300Xd2.

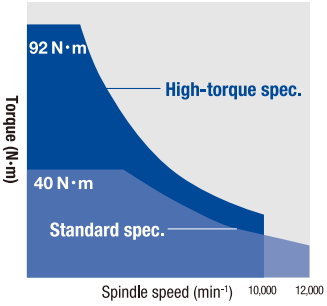


* When Z-axis 380 mm spec. is selected

Highly efficient spindle motor and improved spindle rigidity

A variety of highly efficient spindle motors are available, including the standard 12,000 min^{-1} spec., optional high-torque spec. and 27,000 min^{-1} spec. Spindle rigidity has been enhanced, enabling the machine to demonstrate its capabilities in a broad range of machining applications.

Motor torque characteristics





Spindle clamp force
Improved by 15%

Spindle bearing diameter (high-torque spec.)
Larger by 10%

28-tool magazine *2

The 28-tool magazine is a compact turret magazine that achieves high-speed tool change. The maximum tool weight is 4 kg. 14-tool, 21-tool, 28-tool *2, and 100-tool *3 magazine specifications are available.



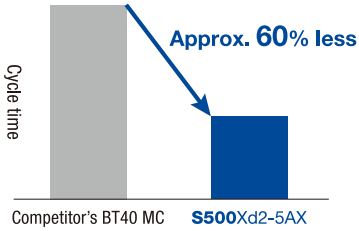
*2. The 28-tool magazine cannot be selected for the S300Xd2.
*3. The 100-tool magazine can only be selected for the S700Xd2-100T. See page 13 for details.

Simultaneous 5-axis machining *4

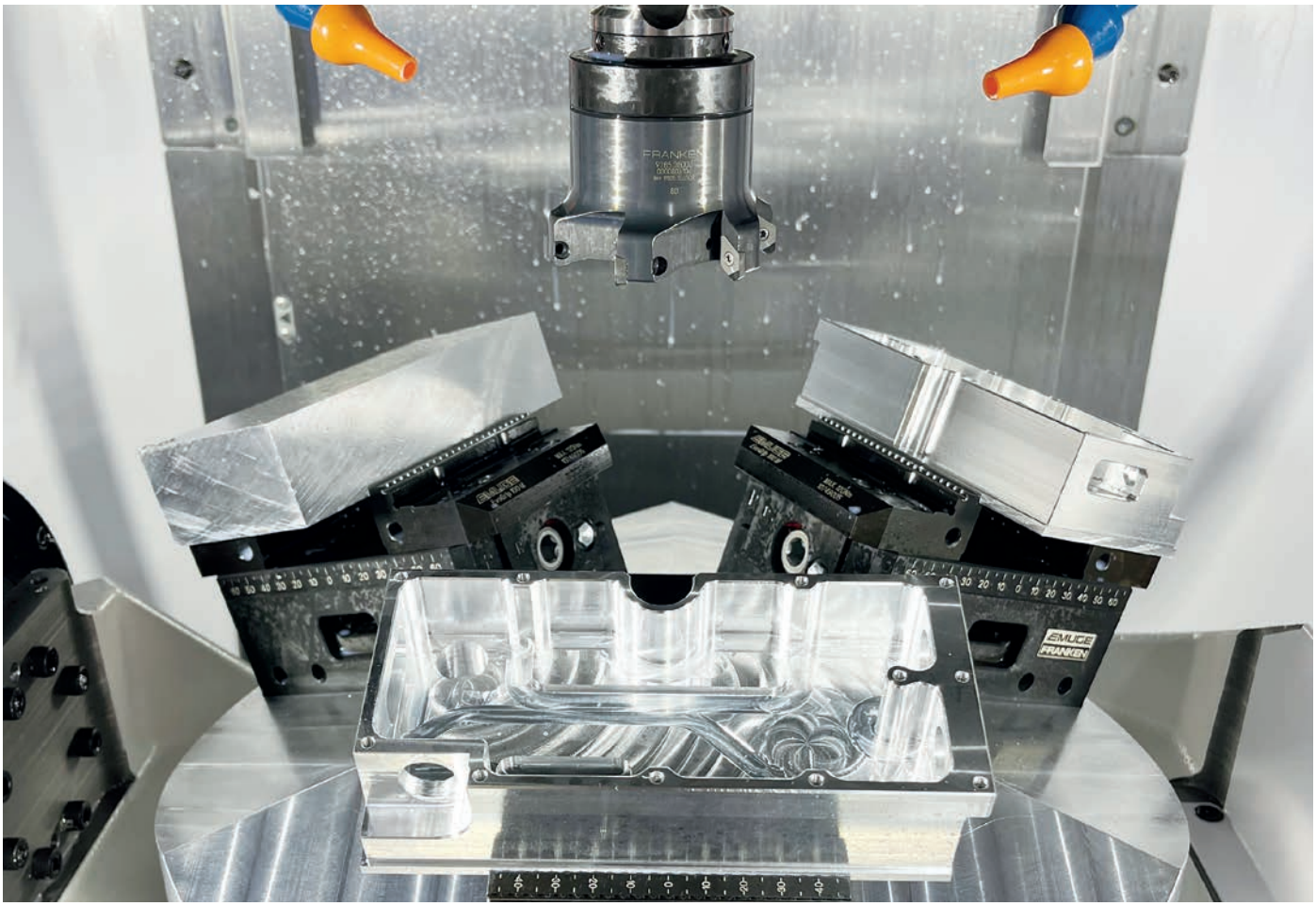
Provided with functions required for simultaneous 5-axis machining, including tool center point control where machining is performed by changing the tool direction relative to the workpiece, look-ahead max. 1,000 blocks, and submicron command.

*4. Available only on the S300/S500/S700Xd2-5AX.

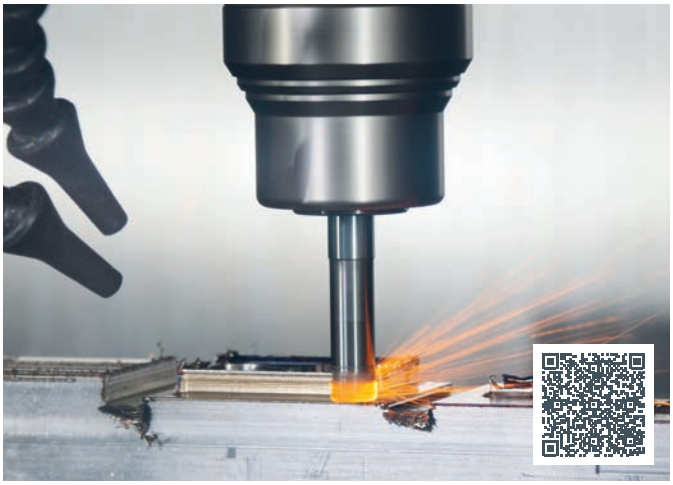




5-Axis Machining



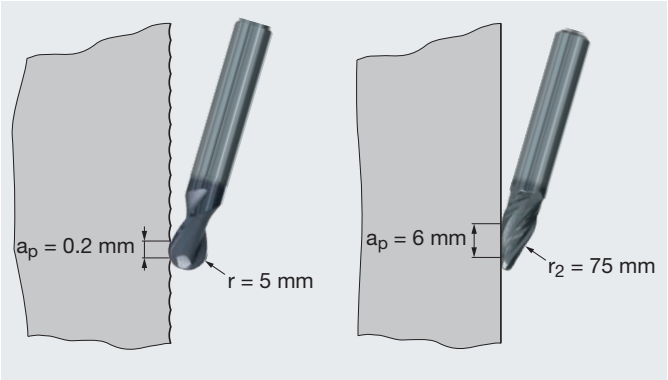
Ceramic End Mills – Cera-Cut



FRANKEN Cera-Cut

- High-feed end mill
- Cutting part made of solid ceramic for highest temperature and wear resistance, shank made of solid carbide
- Tighter cutting diameter tolerance
- Suitable for difficult to cut materials and for hardened materials
- Suitable for roughing and pre-finishing
- 2D and 3D contours can be produced
- Suitable for high feed cutting (HFC) with face cutting edge
- Higher metal removal rate compared to solid carbide end mill

Circle Segment End Mills



FRANKEN Expert

End mills for the advanced 5-axis operation

Circle segment end mills enable a larger axial depth of cut (a_p) and a considerably better surface finish.

The technical specialty of these end mills are the large radii in the cutting area of the respective tool which offer entirely new possibilities in machining.
The large radius simulates a ball-nose end mill with a cutting diameter of 12 mm to 3,000 mm and even larger on request.



The workpiece shows a machining comparison between a ball nose end mill and a circle segment end mill after 1 minute of machining time (from top to down).

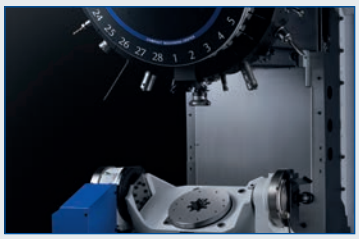


Machine Plan

U500Xd2 - 5AX

Universal Compact Machining Center
Performs universal indexing, encouraging process integration

Standard equipped with a tilting rotary table with a maximum jig area of ø 500 mm. Increased travels of Y/Z axes and the newly developed 100-tool magazine enable a wider range of multi-face machining.





Spindle taper	BT/BBT30
Spindle speed (min^{-1})	12,000 / 16,000 / 20,000 (100T only)
Travel of each axis [XxYxZ]	X500 Y450 Z380
Max. loading capacity (kg)	100
Required floor space (mm)	2,050 x 2,081
Tool storage capacity (pcs.)	14 / 21 / 28 / 100
Indexing speed (A,C) (min^{-1})	A50 C75
Simultaneous 5-axis spec. (5-axis)	Available

Mechanical Centering Vises, Zero-Point Clamping System and Spacers



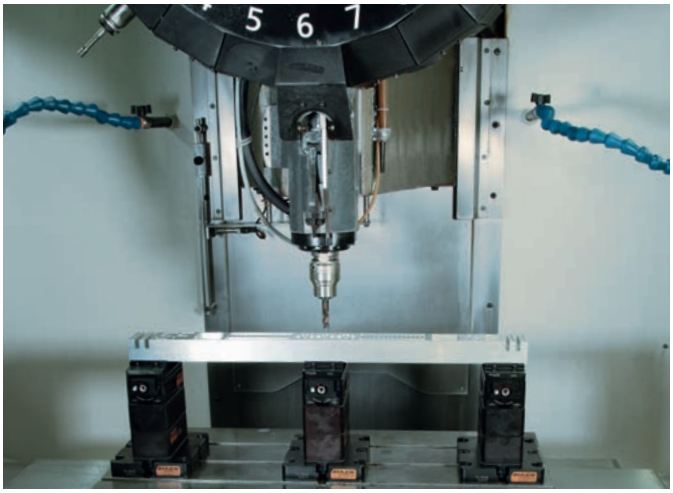
Stable construction of centering vise for low-vibration machining

- High flexibility due to standard 2-jaw clamping or even single-jaw clamping for large parts
- Flexible adaptation options enable the use of our standard clamping devices on existing zero-point clamping systems, machine tables, swivel brackets, cubes and pyramids.
- The compact design enables multi-sided machining with five axes and makes clamping devices of this type universally applicable.
- Impressive high repeatable accuracies of 0.01 mm, concentricity ±0.02 mm and holding forces of up to 75 kN
- Up to 80 % less set-up time in combination EvoGrip with EvoPoint
- Integrated automation interface

EMUGE EvoGrip	Mechanical Centering Vises
EMUGE EvoPoint	Zero-Point Clamping System
EMUGE EvoBlock	Spacers for Centering Vise and Zero-Point Clamping System

Application Examples

Modular System – EvoGrip



Machining	Milling, drilling, tapping, roughing, finishing
Set-up	Multi-piece spacer 70-130 M EvoBlock Centering vise 70-130 M EvoGrip Reversible jaws Stepped EvoGrip
Workpiece	Machine part

Modular System – EvoGrip



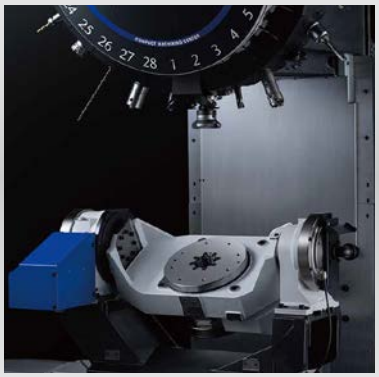
Machining	Milling, drilling, tapping, roughing, finishing
Set-up	Universal one-piece spacer EvoBlock Mechanical centering vise 120-200 M EvoGrip Reversible jaws Stepped EvoGrip
Workpiece	Steering knuckle support

Machine Plan

U

Equipped with tilting rotary table with jig area of max. ø500 mm

Performs universal indexing, encouraging process integration





U500 Xd2

Process integration for multi-face machining

Less space achieved although the machine is equipped with a high-speed and highly accurate tilting rotary table with ample jig area and a newly developed 28-tool magazine. One-clamp machining encourages process integration.

Tilting rotary table

Roller gear cam mechanism is used for A and C axes, achieving high retention strength and backlash-free high-speed and highly accurate indexing.

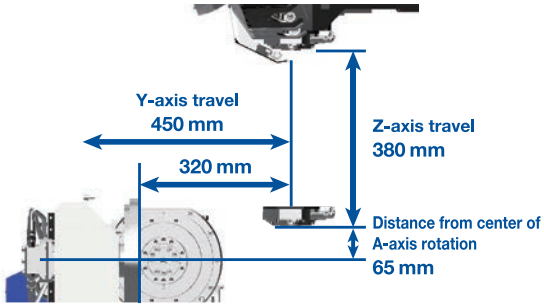
Max. rotary speed	
A-axis **50** min^{-1}	C-axis **75** min^{-1}

0 to 90-deg. indexing time	
A-axis **0.9** s	C-axis **1.2** s

Increased Y/Z-axis travels

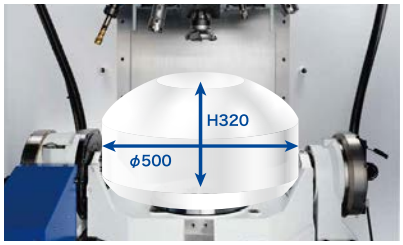
Increased Y- and Z-axis travels provide ample machining area and better tool accessibility.

Z-axis travel	300 mm (previous model)	▶ 380 mm
Y-axis travel	400 mm (previous model)	▶ 450 mm



Expanded jig area

Increased Y- and Z-axis travels provide ample jig area of up to 500 mm in diameter and 320 mm in height. This enables multi-face machining for medium-sized workpieces.



28-tool magazine

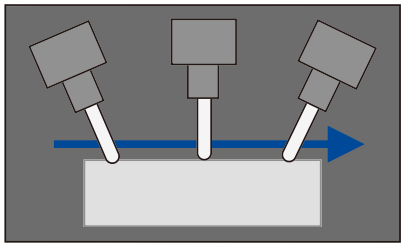
The 28-tool magazine is a compact turret magazine that achieves high-speed tool change. The maximum tool weight is 4 kg. 14-tool, 21-tool, 28-tool, and 100-tool *1 magazine specifications are available.



*1. The 100-tool magazine can only be selected for the U500Xd2-100T.

Simultaneous 5-axis machining *2

Provided with functions required for simultaneous 5-axis machining, including tool center point control where machining is performed by changing the tool direction relative to the workpiece, look-ahead max. 1,000 blocks, and submicron command.



*2. Available only on the U500Xd2-5AX

Gear Milling



Skiving is the economical alternative to manufacturing processes such as gear shaping and broaching.

The process is highly productive, but only when the machine, the tool and the workpiece are perfectly matched to each other.

Skiving Solution

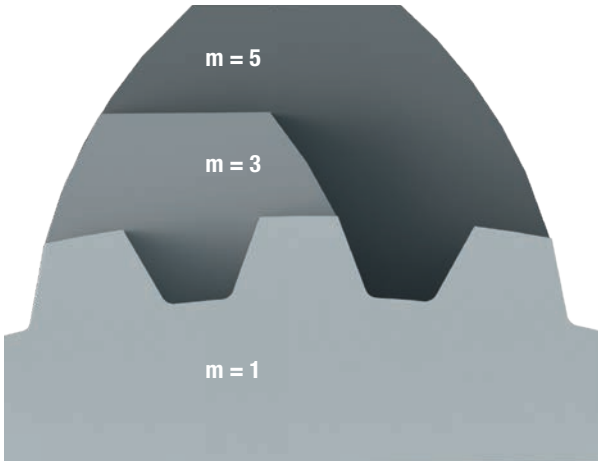


EMUGE-FRANKEN offers a complete solution for skiving tasks. The skiving tool, the tool clamping and workpiece clamping technology are supplied from a single source.

Each FRANKEN skiving tool is individually designed to meet customer requirements. FRANKEN also provides the customer with cutting strategies and cutting data which are perfectly matched to the specific application scenario.

FRANKEN offers skiving tools in the following module sizes:

$m = 0.4$ up to $m = 5$



In addition FRANKEN produce special profiles according to customer requirement.

Carbide and HSS Skiving Wheels in Various Designs

Skiving Wheels with Shank



- Obliques flutes
- Cylindrical or tapered
- Conical surface grinding or step grinding

Skiving Wheels with Bore



- Straight flutes or oblique flutes
- Cylindrical or tapered
- Conical surface grinding or step grinding

Machine Plan

M200Xd1

Advanced mass production type multi-tasking machine expands parts suitable for process integration

Demonstrates high productivity for complex machining by turning and milling and multi-face machining. A new model with larger machining area is available. Greatly expands parts that can be produces by integrating process.

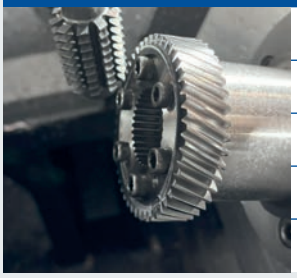


Spindle taper	BT/BBT30
Spindle speed (min^{-1})	10,000 / 16,000
Travel of each axis [X,Y,Z]	X200 Y440 Z305
Max. loading capacity (kg)	40
Required floor space (mm)	1,280 x 2,667
Tool storage capacity (pcs.)	22 / 28
Rapid traverse rate (X,Y,Z) (m/min)	X50 Y50 Z50
Indexing speed (A,C) (min^{-1})	A60 C200

*Reference maximum capacity

Hobbing:	m2.75
Internal skiving:	m1.66
External skiving:	m1.75

Hobbing : Helical gear (m1.5)



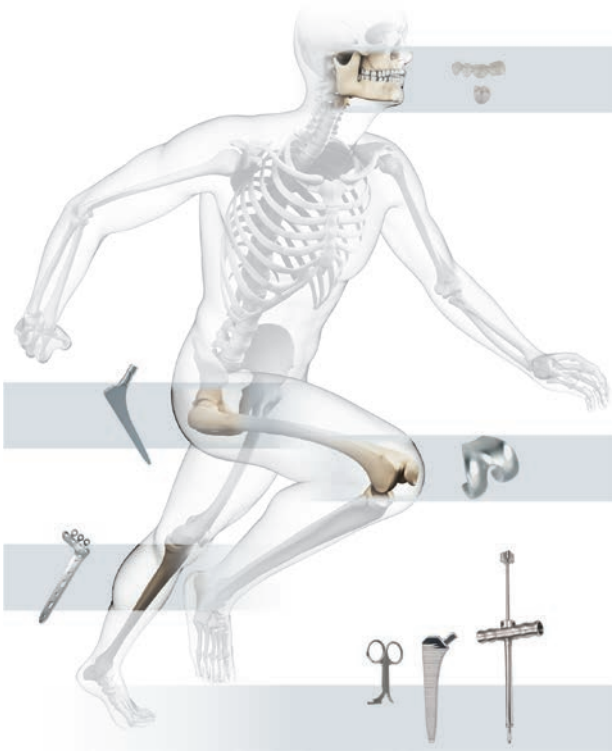
Size	ø78 x h18
Material	SCr420
Tool diameter	ø34
Accuracy	7 Grade
Machining time	187 sec.

Skiving : Spline (m1.0)



Size	ø32,5 x h18
Material	SCr420
Tool diameter	ø26.3
Accuracy	4 Grade
Machining time	31 sec.

Medical Components

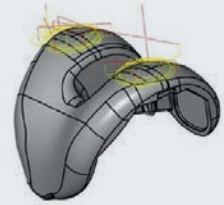


Products of medical technology save lifes and improve human quality of life. The expectations towards product quality and efficiency of production rise due to continuous development and new technologies

EMUGE-FRANKEN as a leading manufacturer of precision tools has placed great emphasis on this topic.
A comprehensive product range is offered for the machining of medical technology products:

- Milling tools (solid carbide and HSS)
- Twist drills
- Threading tools
  (taps, cold-forming taps, thread milling cutters)
- Thread gauges
- Workpiece clamping and tool clamping

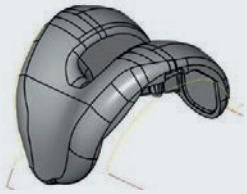
Solid Carbide End Mills for Knee Joint





End mill
with corner radius (Duplex)

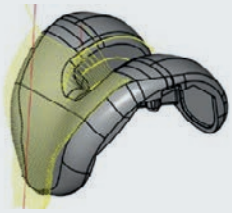
FRANKEN Jet-Cut





End mill
with corner radius

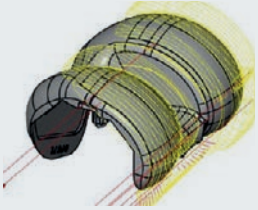
FRANKEN TOP-Cut





Ball nose end mill

FRANKEN Hard-Cut

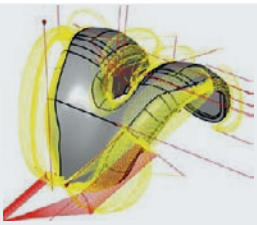




Circle segment end mill
with taper form – VR

FRANKEN Expert

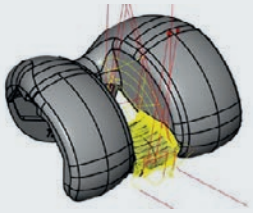
Solid Carbide End Mills for Knee Joint





Ball nose end mill

FRANKEN TOP-Cut





Conical ball nose end mill

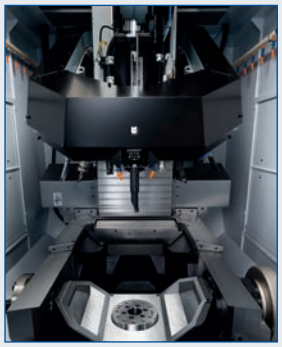
FRANKEN Expert

Machine Plan

M300Xd1 - 5AX

Demonstrates high machining capabilities from milling to turning processes. Equipped with simultaneous 5-axis machining function

High-power motor is used for the milling spindle and the turning spindle. The tilting rotary table provides high clamp force. These features ensure that the machine demonstrates high machining capabilities in complex machining or multi-face machining. Tool center point control has been added to support simultaneous five-axis machining.



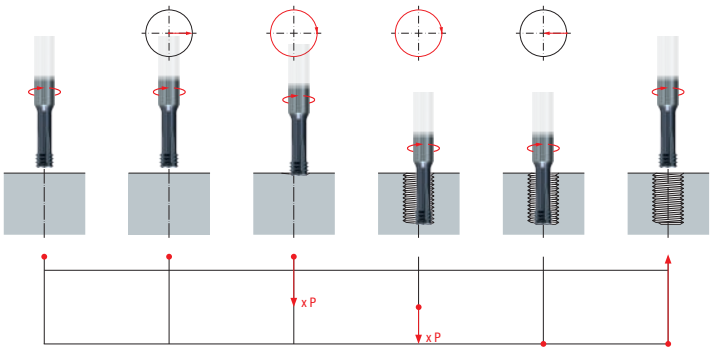


Spindle taper	BT/BBT30
Spindle speed (min^{-1})	10,000 / 16,000
Travel of each axis [XxYxZ]	X300 Y440 Z380
Max. loading capacity (kg)	75
Required floor space (mm)	1,520 x 2,667
Tool storage capacity (pcs.)	22 / 28
Simultaneous 5-axis spec. (5-axis)	Available
Indexing speed (A,C) (min^{-1})	A50 C200

Circular Drill Thread Mills for Special Materials

ZBGF-S-CUT





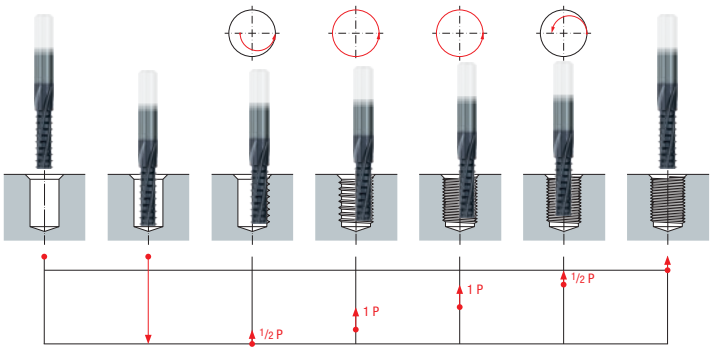
Drilling, threading and circular chamfering in just one work process

- Left-hand rotating
- For blind and through hole threads
- For stainless steel materials and special materials such us Inconel or Titanium
- For one thread size only
  - M3 up to M24
  - No.6 up to 3/4"

Thread Milling Cutters for Reduced Radial Force

GF-VARIO-Z-AZR-1





Alternating tooth rows providing:

- Significantly reduced radial forces
- Long tool life values
- High process reliability
- High surface quality of the thread
- High positioning precision
- No axial miscut thread

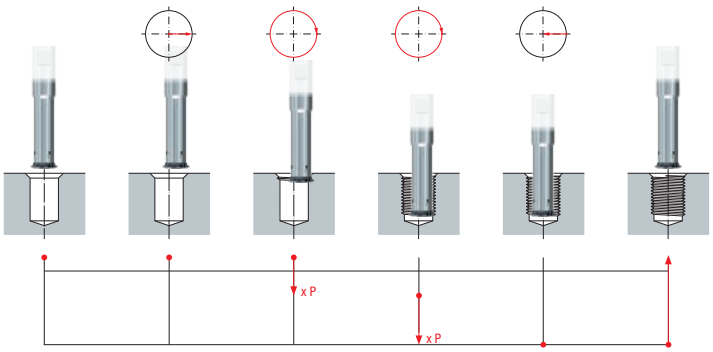
Incomplete thread can be removed as an option

For different thread sizes
- Pitch 0.5 up to 3 mm
- Pitch 32 tpi up to 10 tpi

Circular Thread Milling Bodies with Exchangeable Face Inserts

ZIRK-GF





- High surface quality of the thread
- Threads can be cut down to the bottom of the hole
- Different thread systems, thread diameters and thread pitches with only one face insert:
  from dia. 12 mm for internal threads resp. from dia. 6 mm for external threads
- Short machining time due to increased number of flutes
- Suitable for right-hand and left-hand threads

Machine Plan

SPEEDIO Compact Multi-Tasking Machine

M

Mass production type multi-tasking machine encourages process integration

Newly developed magazine and new controller further encourage process integration





M200 Xd1

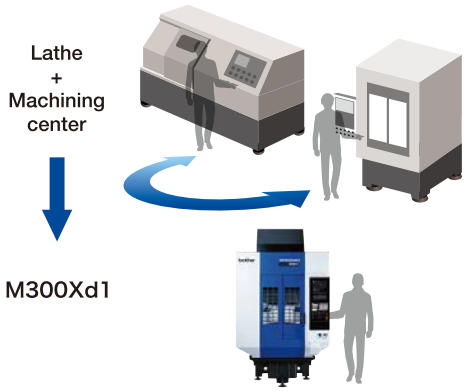


M300 Xd1

(Awarded to M200Xd1)

Complex machining

Turning and milling can be completed through one-time chucking on one machine. There is no handling between turning and milling, leading to various advantages.



Machine structure

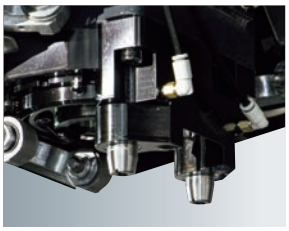
A roller gear cam is used for the tilt axis (A-axis), a DD motor for the turning spindle (C-axis), and an original double plunger lock to secure turning tools.

Turning spindle (C-axis)



A high-speed and high-power built-in DD motor is used for the turning spindle (C-axis). Enabling efficient turning and high-speed indexing.

Double plunger lock



An original double plunger lock is used to secure turning tools, achieving excellent tool change repeatability.

Simultaneous 5-axis machining *1

Provided with functions required for simultaneous 5-axis machining, including tool center point control where machining is performed by changing the tool direction relative to the workpiece, look-ahead max. 1,000 blocks, and submicron command.



Artificial bone

Spindle/turning spindle synchronized control (optional)

Synchronized rotation of the spindle and turning spindle at the instructed rotation ratio enables gear cutting, such as hobbing and skiving.



Skiving

A-axis clamp (optional)

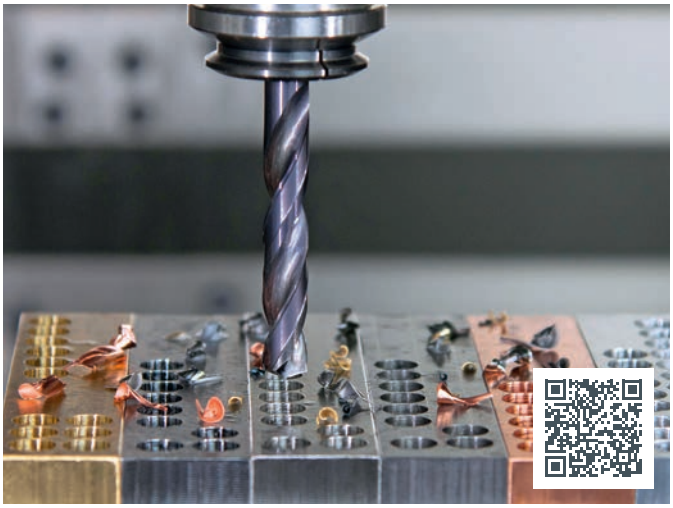
The mechanical clamp plus servo clamp method enables the machine to demonstrate high machining capabilities in high-load machining and stable lathe turning, improving machining accuracy. A double type clamp mechanism, where clamps are provided on the left and right sides, is available to further enhance high machining capabilities.

A-axis clamp torque	
Single	695 N·m
Double	975 N·m

*1. Available only on the M200Xd1-5AX/M300Xd1-5AX

Solid Carbide Twist Drills

BasicDrill



Solid carbide twist drills EMUGE BasicDrill for universal drilling applications.

- For use in various materials with steel as main application area
- Four margins for improved guidance and hole quality
- Internal cooling channels for high process reliability

SteelDrill



Solid carbide twist drills EMUGE SteelDrill for use in steel, cast iron and non-ferrous materials.

- Four margins for improved guidance and drill hole quality
- Internal cooling channels for high process reliability
- Special TIALN-coating for excellent wear resistance and drilling performance

Taps

Taps and Cold-Forming Taps — AL-GLT-104



HSSE cutting and cold-forming taps for applications in wrought aluminium and copper materials.

- Special coating for even higher surface quality with reduced material adhesion

Cold-Forming Taps — GAL-SPEED-TICN



HSSE or solid carbide cold-forming taps for applications in cast aluminium alloys.

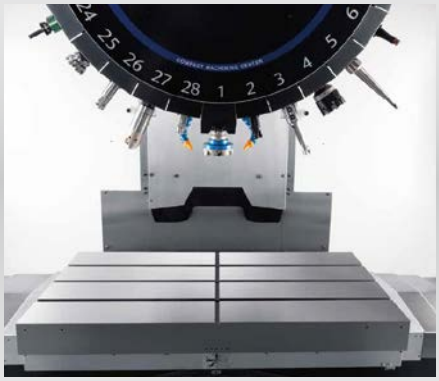
- The special geometry enables very high cutting speeds
- Ideal for use with EMUGE Speedsynchro® Mini tap holder

Machine Plan

W

Wide travel model with the largest machining area among BT30 spindle machines

Unprecedented large machining area enables highly productive machining from small to large parts





W1000 Xd2

A variety of machining from small to large workpieces

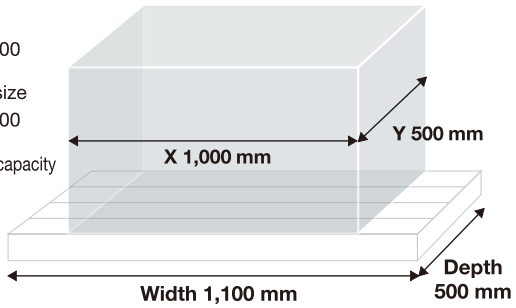
Machine's abilities to handle large workpieces and high-mix small-volume products have been further enhanced by the largest travels of any BT30 machines at X1,000 mm and Y500 mm, maximum loading capacity of 500 kg, and increased Z-axis travel.

Ample travels and table size

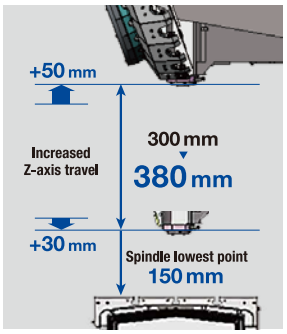
Travels
X1,000 Y500

Work area size
X1,100 Y500

Max. loading capacity
500 kg



Increased Z-axis travel



Z-axis travel
300 mm ▶ 380 mm

Machining of large workpieces



Multi-part machining of small workpieces



A broad range of machining

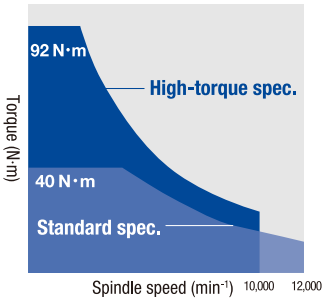
The machine can perform a broader range of machining with the newly developed 28-tool magazine (optional), newly developed 12,000 min^{-1} standard spindle motor, and improved spindle rigidity for high-torque specifications.

28-tool magazine



High-power spindle motor

Motor torque characteristics



Improved spindle rigidity



Spindle bearing diameter (High-torque spec.) Larger by 10%

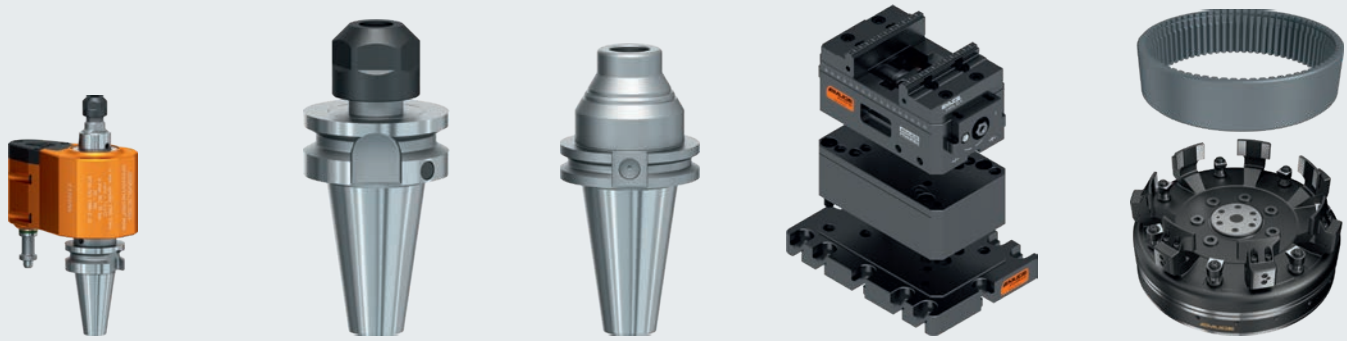
High-Precision Tools

EMUGE-FRANKEN offers a wide range in the field of

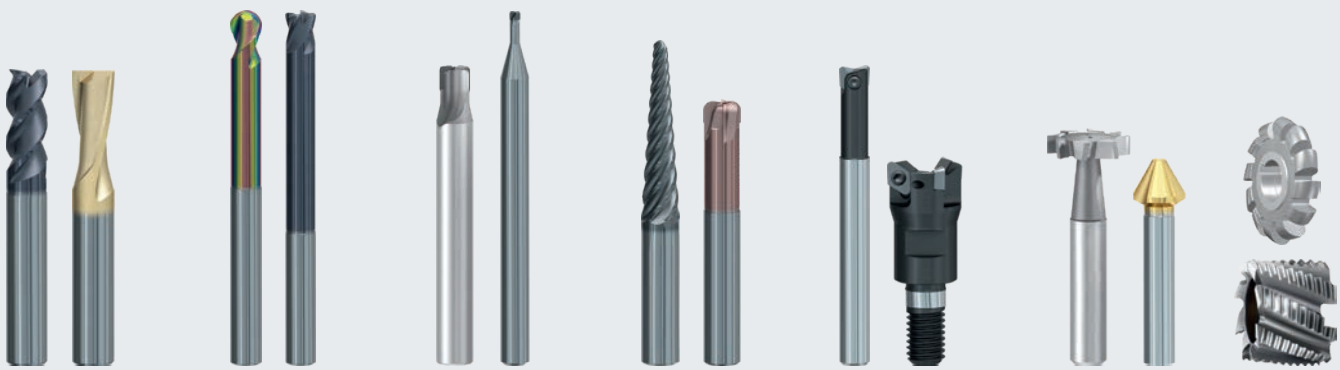
Threading Technology



Clamping Technology



Milling Technology



Cutting Out the Waste

Extensive lineup further expands the potential of BT30 spindle machines, and provides customers with the best waste-free solution

S — Compact Machining Center

S300 Xd2



[5AX available]

S500 Xd2



[5AX available]

S700 Xd2



[5AX available]
[100T available]

W — Wide Travel Compact Machining Center

W1000 Xd2



R — Pallet Changing Compact Machining Center

R450 Xd1



R650 Xd1



H — Horizontal Compact Machining Center

H550 Xd1



M — Compact Multi-Tasking Machine

M200 Xd1



[5AX available]

M300 Xd1



[5AX available]

U — Universal Compact Machining Center

U500 Xd2



[5AX available]
[100T available]

Special Options

Rotary Table
T-200Ad



Loading System
BV7-870Ad



Deburring Center
DG-1



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Figures in brackets ( ) are the country codes.

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