

Mikron

VCE Pro

600/800/800W 1000/1200/1400/1600/2000



Becoming better every day – since 1802

GF Machining Solutions

When all you need is everything, it's good to know that there is one company that you can count on to deliver complete solutions and services. From unmatched Electrical Discharge Machining (EDM), Laser texturing, Laser micromachining, Additive Manufacturing and first-class Milling and Spindles to Tooling and Automation, all of our solutions are backed by unrivaled customer service and expert GF Machining Solutions training. Our AgieCharmilles, Microlution, Mikron Mill, Liechti, Step-Tec and System 3R technologies help you raise your game—and our digital business solutions for intelligent manufacturing, offering embedded expertise and optimized production processes across all industries, increase your competitive edge.



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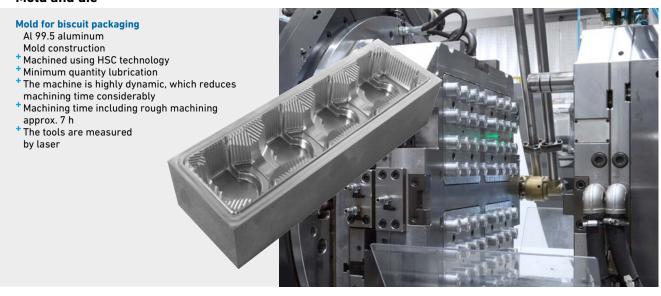
Ramp up your production of simple to complex molds, dies prototypes and single parts. Whether you're a job shop, mold and die maker, small to medium-sized operation, prototype manufacturer or producer of single parts, this reasonably priced bestseller delivers. Get a stiff machine base and high-tech key components—along with CNC, Spindle and accuracy-supporting linear scales included—to drive your success.

Market segments and applications

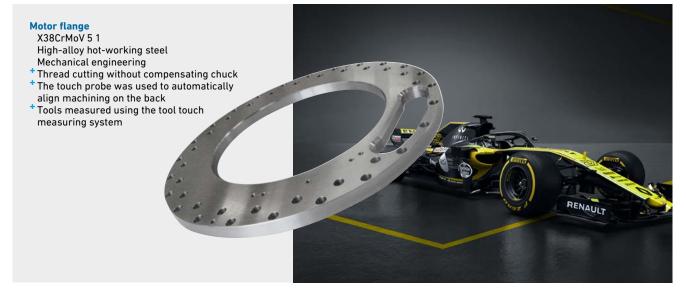
Typical applications

- Meet your distinct applications needs, thanks to three different available Spindles.
- Get a high-torque, 6,000 rpm Spindle or a highly dynamic 16,000 rpm Step-Tec Spindle.
- Open new performance and quality horizons with this machine line, available in seven sizes.
- Get the surface area to clamp all workpieces with machining capacity over the full travel range, whichever X travel you choose: 600, 800, 1,000, 1,200, 1,600 or 2,000 mm.

Mold and die



Automotive





Technology

High-efficiency Milling

Get a stiff machine base and high-tech key components—along with CNC, Spindle and accuracy-supporting linear scales included—to drive your success.

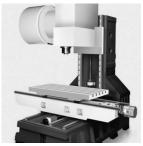
Experience easy setup, excellent ergonomics, a choice of X travels from 600 to 2,000 mm. Position your business to machine a wide variety of materials and execute a vast variety of applications.

- *Robust
- * Reliable
- * Ergonomic
- ⁺ Efficient



Solutions

The right solution—for you



Highly stiff, robust, variable



From standard to special—for you



Fast delivery for fast ROI



Low downtime due to quality components

Customer benefits

- Reliable, affordable three-axis solution.
- * Experience high-high volume, maximum load chip removal and minimal vibration.

 All while achieving top part quality.
- Meet your distinct applications needs, thanks to three different available Spindles (high-torque or highly dynamic).
- + Highly versatile machine concept with vast selection of optional equipment.
- Enjoy unmanned production—nights or weekends.



Monitor your production uptime



Secure your machines availability

Robust and precise

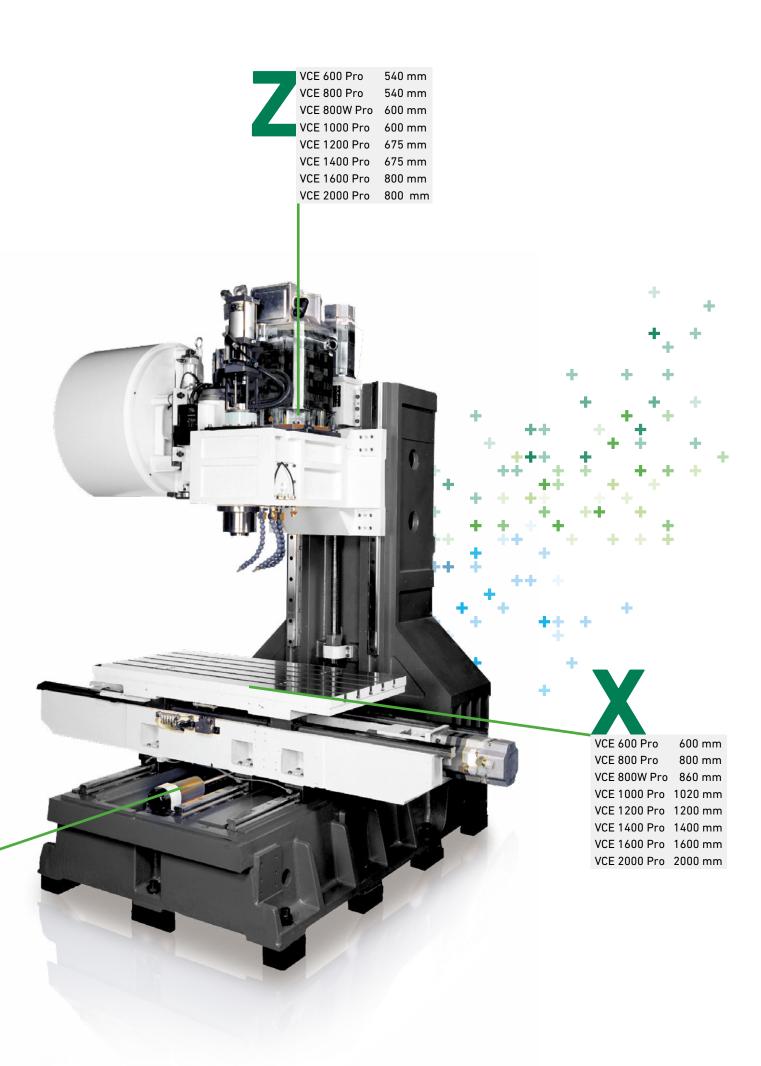
Mikron VCE Pro core components

- * Belt-driven spindle 6,000 rpm, 10,000 rpm, Inline spindle 16,000 rpm always offer sufficient performance for any conventional machining processes.
- * Tool changer with double-arm gripper for even shorter downtimes.
- + Feed rate up to 40 m/min (X + Y) to achieve the level of dynamism.
- * Optional linear scales
 ensures a constant level of precision for machining,
 even when temperatures fluctuate.
- + Clean enclosure
 thanks to perfect chip management.
- + Handles heavy and large row parts efficiently

with on a smallest footprint.

* Robot interface
for additional working hours at lowest cost.

VCE 600 Pro 500 mm
VCE 800 Pro 500 mm
VCE 800W Pro 560 mm
VCE 1000 Pro 560 mm
VCE 1200 Pro 600 mm
VCE 1400 Pro 650 mm
VCE 1600 Pro 900 mm
VCE 2000 Pro 900 mm



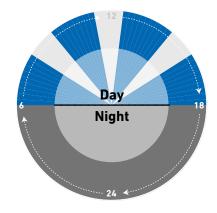
Robot interface

Additional working hours at lowest cost

The well-established Mikron VCE pro series serves jobshopers in all kind of segmentation. Customers are using the machine to produce prototypes but also for mid-size batches series production. The typical VCE pro customer is an contract manufacturer, he needs flexibility and reliability for his machine. While the performances of the machine in the market is well recognized, customers are looking for more and more independency and possibilities to run the machine as many hours as possible.

To cover this customer need GF will offer a Robot Interface option for the VCE Pro series. With this option, GF opens the possibility to connect the machine with an automation system either from S3R or from third party. VCE Pro milling machines, as well as any other technology can be now linked to a single automation cell, thus enabling autonomous collaborative production.

Step 1 Upgrade the machine: clamping with System 3R



+20% productivity

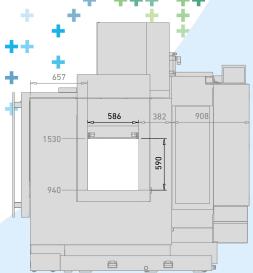
Step 2
Extend your system:
pallet magazine and clamping
with System 3R



+16h
additional capacity
daily
You'll run additional
shifts 24/7 at lowest
cost.

- + Fast setup time
- + Lowest machine downtime
- + High profitability
- + Broad flexibility
- + Efficient productivity











Table

There is still enough room for the clamping elements, even when travel ranges are used to the fullest



Extended usage possibilities thanks to fourth axis

A fourth axis connection is included in the Mikron VCE Pro's electrical cabinet as standard. This means it is easy to fit an indexer at any later stage. Activation is done using parameters at the controller. Many accessories are available.

The precision indexers belonging to the Mikron VCE Pro series are the right solution for machining medium to large workpieces. A small range of dependable products supplements the vertical machining center with a crucial fourth axis.

- Pneumohydraulic axis clamp with integrated pressure intensifier
- Center heights of 150 mm, 180 mm, 250 mm
- Workpiece weights up to 1,000 kg

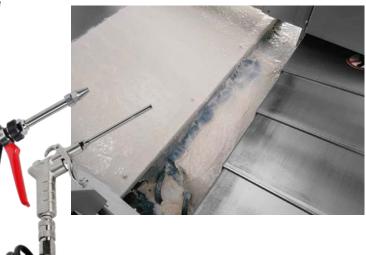


Compressed-air connection on every table

Each table is fitted with an air connector for pneumatically activated zero-point clamping systems.

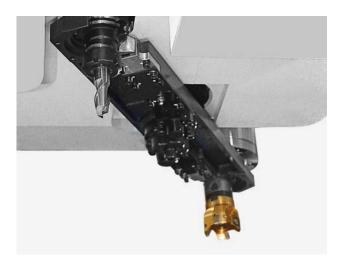
Chips effectively flushed away

A side-mounted flushing system rinses the chips lying on the enclosure wall outlet directly into the chip conveyor. Spray and compressed-air pistols provide a flexible means of cleaning.



Tool Magazines

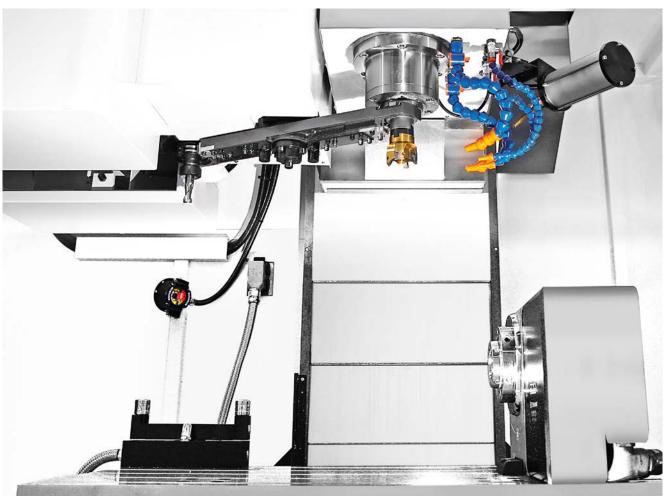
No restrictions on working space accessibility



- * Fast and reliable tool changer
- Large door opening directly next to the tool changer and table
- * Tool magazine turned away from the working area

Customer benefits

- No restricting objects in the working area.
 Machining of cubic workpieces
- Large working area
- Tool changer is well protected against chips and cooling water
- + Tool holder taper protected
- Loading tools during milling operation



More productivity with larger tool magazines



Tool lever

The machining autonomy of the popular VCE Pro line has been greatly increased.

Along with the 24-compartment and 30-compartment changers, chain changers with 40 and 60 compartments are now also available.

The 40- and 60-compartment chain changers are equipped with a simultaneous tool-fitting feature.

| Tool lever | | | | | | | | | |
|---|--|--|-------------------|------------------------------|--|--|-------------------|--|--------------------|
| | 24/ | 30 | | | 40 | | | 60 | |
| | tool ports | | | | tool ports | | tool ports | | |
| | | | | | | | | | |
| Tool Magazines | DT 24 (HSK-A63) | DT 24 (ISO 40) | DT 30 (ISO 40) | DT 24 (ISO 50) | CT 40 (HSK-A63) | CT 40 (ISO 40) | CT 40 (ISO 50) | CT 60 (ISO 40) | CT 60 (HSK-A63) |
| Machine types | VCE 600 Pro VCE 800 Pro VCE 800W Pro VCE 1000 Pro VCE 1200 Pro | VCE 600 Pro VCE 800 Pro VCE 800W Pro VCE 1000 Pro VCE 1200 Pro VCE 1400 Pro | VCE 1600 Pro | VCE 1600 Pro VCE 2000 Pro | VCE 600 Pro VCE 800 Pro VCE 800W Pro VCE 1000 Pro | VCE 600 Pro VCE 800 Pro VCE 800W Pro VCE 1000 Pro VCE 1200 Pro VCE 1400 Pro VCE 1600 Pro | | VCE 800W Pro VCE 1000 Pro VCE 1200 Pro | |
| Tool magazine (type) | Double-arm, | Double-arm, | Double-arm, | Double-arm, | Double-arm, | Double-arm, | Double-arm, | Double-arm, | Double-arm, |
| Number of tool ports | 24 | 24 | 30 | 24 | 40 | 40 | 40 | 60 | 60 |
| Tool selection | Bidirectional | Bidirectional | Bidirectional | Bidirectional | Bidirectional | Bidirectional | Bidirectional | Bidirectional | Bidirectional |
| Maximum tool diameter (mm) | 77 | 77 | 85 | 125 | 75 | 75 | 125 | 75 | 75 |
| With permanent space coding and with free neighboring spaces (mm) | 115 | 115 | 150 | 240 | 125 | 125 | 240 | 125 | 125 |
| Maximum tool length (mm) | 305 | 305 | 305 | 350 | 305 | 305 | 350 | 305 | 305 |
| Maximum tool weight (kg) | 6 | 6 | 6 | 15 | 7 | 7 | 15 | 7 | 7 |
| Tool-changing time "Chip to chip" (sec.)* | 8 | 8 | 8 | 11 | 8 | 8 | 11 | 8 | 8 |
| * As per VDI Guideline 2852, Sheet 1 | | | | | | | | | |



Cooling

Spectacular performance in high efficiency milling

Programmed precision

Gone are the days of time-consuming and imprecise manual adjustments on the coolant inlet. A programmable coolant nozzle directs the jet automatically to precisely where the action is after each tool change (optional).



All-around cooling with spray ring

Cooling is always guaranteed with the optional spray ring (optional).

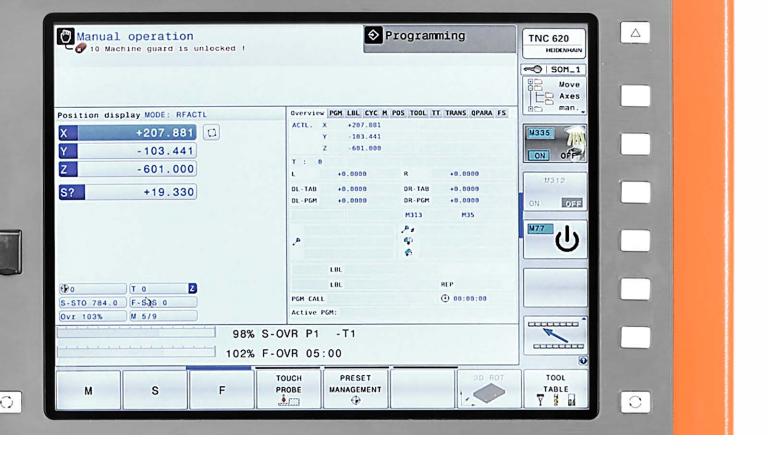




Cooling through the spindle, 18 or 42 bar

Coolant is fed directly to the cutting edges under high pressure and through the working spindle. The benefits of this are high cutting speeds, easy deep drilling, blind hole milling, and longer tool service life (optional). The supply unit consists of a large, mobile coolant tank and can be added to with an optionally available belt filter. This system has two switchable filter cartridges to enable uninterrupted use in production.

- Cooled spindle head
- Large coolant tank that can be pulled out on wheels, making cleaning easier
- Spray gun and air gun
- Coolant nozzles and blow-off nozzles on the spindle head



Control

Ideal for any production job in the workshop

This control console does everything

Its clearly structured monitoring desk is genuinely user friendly. Fourteen function keys give you direct access to menu functions on, beneath and next to the 15-inch color TFT display. The console pivots and can be adjusted in height, and its screen tilts so you can avoid reflections.

Digital drive technology

A digital control circuit for the drive motors offers exceptionally dynamic control. This enables precision contour reproduction and excellent service quality.

Automatic calculation of cutting data

The control software offers a facility for automatically calculating cutting data. To do this, you enter tool-specific data into a table, from which the controller calculates suggested spindle speeds and feed rates, which technicians can of course then change and adjust to the levels they have found most effective.

- Programming using Heidenhain plain text dialogue or DIN/ISO
- Keyboard with alpha keys, track function keys, operating mode keys, and separate spindle and feed override potentiometers
- Graphical support for the programming of cycles and contours, graphics for testing programs and for checking on current workpiece machining
- Cutting data automatically calculated
- Heat exchanger on electrical cabinet cools power components and keeps outside dust away from the cabinet by means of two separate circuits
- Touch measuring system cycles
- * Short block processing time (1.5 ms)

All about the Workpiece

Efficient working preparation for shorter downtimes

The unusual design of this protective enclosure helps operators to make the important preparations for their work. They can also rely on our popular workpiece and tool measurement options. The Mikron VCE Pro helps you perform basic handling with ease so that you can focus on what is most important.

Outstanding view of the workpiece from three sides

An excellent window construction on both sliding doors at the front, along with big windows on either side, provides you with an unrestricted view of the setup and machining processes in a completely closed protective enclosure. Another benefit is that the working space is accessible from the side, with operating buttons for the tool magazine (optional).

Setting up is easy with the OMP 40-2 workpiece probe

An infrared probe inserted into the spindle enables the workpiece to be set up, detected, and measured rationally (optional).

This reduces setup times considerably.





Produce safely with the TS 27 tool probe

Precision tool setup, reliable tool breakage monitoring: the length and diameter of tools can be measured precisely using a probe mounted on the worktable (optional).

Tool measurement using laser

Tools with small diameters are measured by laser. Contours, such as those of round-head cutters, can also be monitored. The unit has a built-in blow-off nozzle in order to blow dirt off the tool before measuring (optional).

Options

Multiple options to drive your success



Tool touch measuring system TS 27



Laser tool measuring device



Preparing setup probe OMP 40-2



Setup probe OMP 40-2



Basic supply unit for IKZ (internal coolant supply), 18 bar



Supply unit for IKZ, 18 or 42 bar



Belt filter unit on cooling water tank



Integrated belt filter for sizes 600-1000



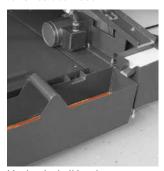
Spray ring



Programmable coolant nozzle



Minimum quantity lubrication



Mechanical oil/coolant separator



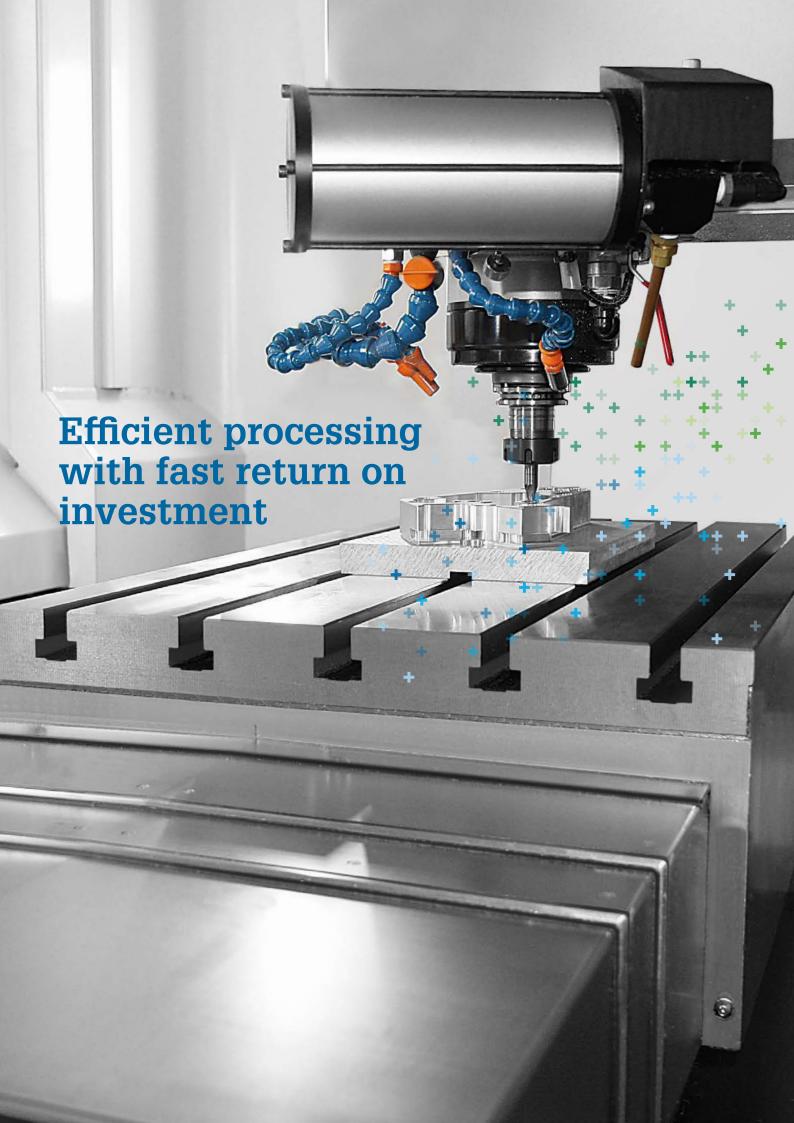
Indexer



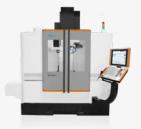
Spindle cooling system water/water



Powerfull mist extraction unit for VCE Pro 1600-2000



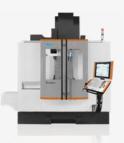
Technical data



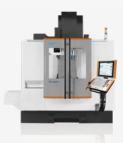




Mikron VCE 800 Pro

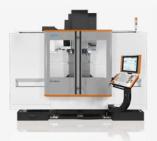


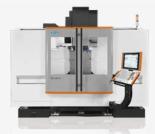
Mikron VCE 800W Pro



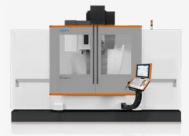
Mikron VCE 1000 Pro

| | | Mikron VCE 600 Pro | Mikron VCE 800 Pro | Mikron VCE 800W Pr | |
|--|----------|--------------------------------|--------------------------------|--------------------------------------|--|
| Travel ranges | | | | | |
| Longitudinal X | mm | 600 | 800 | 860 | |
| Transverse Y | mm | 500 | 500 | 560 | |
| Vertical Z | mm | 540 | 540 | 600 | |
| Max. distance between spindle tip and worktable | mm | 690 | 690 | 735 | |
| Tool spindle | | | | | |
| Maximum speed up to | rpm | 10,000 belt drive | 10,000 belt drive | 10,000 belt drive | |
| Tool 40% duty cycle/S6 | kW @ rpm | 18.5 @ 1188 18.5 @ 1,188 | | 18.5 @ 1,188 | |
| pindle torque 40% duty cycle/S6 Nm | | 149 | 149 | 149 | |
| Tool mount | | ISO-B40 | ISO-B40 | ISO-B40 | |
| Optional working spindle | rpm | 16,000 inline | 16,000 inline | 16,000 inline | |
| Tool mount | | ISO-B40/HSK-A63 | ISO-B40/HSK-A63 | ISO-B40/HSK-A63 | |
| Travel speed | | | | | |
| Rapid traverse X, Y | m/min. | 40 | 40 | 40 | |
| Rapid traverse Z | m/min | 40 | 40 | 40 | |
| Tool magazine Magazine spaces | quantity | 24/40 ISO-B40 24/40 HSK-A63 | 24/40 ISO-B40 24/40 HSK-A63 | 24/40/60 ISO-B40 24/40/60 HSK-A63 | |
| Tool magazine | | Side-mounted | Side-mounted | Side-mounted | |
| Max. tool length | mm | 305 | 305 | 305 | |
| Max. tool diameter mm | | 77/115 | 77/115 | 77/115 | |
| | | | | | |
| Worktable Table area | mm | 700 x 500 | 910 x 500 | 1,000 x 560 | |
| Maximum table load | kg | 800 | 1,100 | 1,350 | |
| Number of T-grooves | ''9 | 5 | 5 | 5 | |
| T-groove spacing mm | | 100 | 100 | <u> </u> | |
| T-groove dimensions | mm | 18 +0.006/ +0.024 | 18 +0.006/ +0.024 | 18 +0.006/ +0.024 | |
| | | | | | |
| Cooling Coolant tank canacity | I | 300 | 300 | 300 | |
| Coolant tank capacity | L . | 300 | 300 | 300 | |
| Controller | | | | | |
| | Туре | Heidenhain TNC 620 | Heidenhain TNC 620 | Heidenhain TNC 620 | |
| | | | | | |
| Machine weight | | | | | |









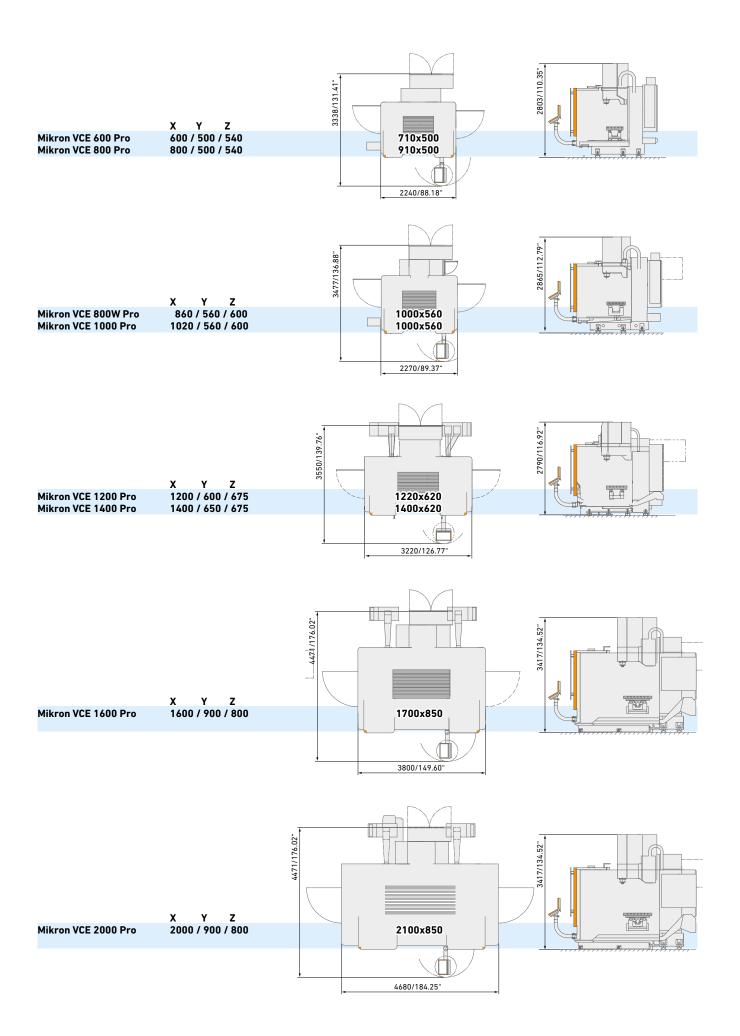
Mikron VCE 1200 Pro

Mikron VCE 1400 Pro

Mikron VCE 1600 Pro

Mikron VCE 2000 Pro

| Mikron VCE 1000 Pro | Mikron VCE 1200 Pro | Mikron VCE 1400 Pro | Mikron VCE 1600 Pro | Mikron VCE 2000 Pro | |
|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|--|
| 1,020 | 1,200 | 1,400 | 1,600 | 2,000 | |
| 560 | 600 | 650 | 900 | 900 | |
| 600 | 675 | 675 | 800 | 800 | |
| 735 | 775 | 775 | 900 | 900 | |
| 10,000 belt drive | 10,000 belt drive | 10,000 belt drive | 10,000/6,000 belt drive | 10,000/6,000 belt drive | |
| 18.5 @ 1,188 | 18 @ 823 | 18 @ 823 | 18 @ 823 | 18 @ 823 | |
| 149 | 209 | 209 | 209/350 | 209/350 | |
| ISO-B40 | ISO-B40 | ISO-B40 | ISO-B40 / ISO-B50 | ISO-B40 / ISO-B50 | |
| 16,000 inline | 16,000 inline | 16,000 inline | 16,000 inline | 16,000 inline | |
| ISO-B40/HSK-A63 | ISO-B40/HSK-A63 | ISO-B40/HSK-A63 | ISO 50, 350 Nm | ISO 50, 350 Nm | |
| | | | | | |
| 40 | 32 | 32 | 24 | 20 | |
| 40 | 24 | 24 | 20 | 20 | |
| 2///0//0 ICO B/0 | 2///0//0/50 B/0 | 2///0//0 ISO D/0 | 20//0//0/50 D/0 | 20//0//0/50 D/0 | |
| 24/40/60 ISO-B40 24/40/60 HSK-A63 | 24/40/60 ISO-B40 24/40/60 HSK-A63 | 24/40/60 ISO-B40 24/40/60 HSK-A63 | 30/40/60 ISO-B40 24/40 ISO-B50 | 30/40/60 ISO-B40 24 ISO-B50 | |
| - | 24/40/00 H3N-A03 | 24/40/00 H3R-A03 | 40/60 HSK-A63 | 40/60 HSK-A63 | |
| Side-mounted | Side-mounted | Side-mounted | Side-mounted | Side-mounted | |
| 305 | 305 | 305 | 305 (350, ISO-B50) | 305 (350, ISO-B50) | |
| 77/115 | 77/115 | 77/115 | 85/150 (125/240, ISO-B50) | 85/150 (125/240, ISO-B50 | |
| | | | | | |
| 1,000 x 560 | 1,220 x 620 | 1,400 x 620 | 1,700 x 850 | 2,100 x 850 | |
| 1,350 | 1,700 | 1,700 | 2,000 | 3,000 | |
| 5 | 5 | 5 | 7 | 7 | |
| 100 | 100 | 100 | 100 | 100 | |
| 18 +0.006/ +0.024 | 18 +0.006/ +0.024 | 18 +0.006/ +0.024 | 18 +0.006/ +0.024 | 18 +0.006/ +0.024 | |
| 300 | 380 | 380 | 540 | 668 | |
| Heidenhain TNC 620 | Heidenhain TNC 620 | Heidenhain TNC 620 | Heidenhain TNC 620 | Heidenhain TNC 620 | |
| 6,500 | 8,000 | 8,700 | 18,600 | 20,600 | |
| | | | | | |



Standard equipment for all Mikron VCE 600 Pro to VCE 2000 Pro vertical machining centers

- Protective enclosure
- Two side windows, large front doors
- Powerful fluorescent lights in the working space
- Telescopic covers on X-, Y-, and Z-axis
- Spiral chip conveyor with mechanical double filter
- Automatic central lubrication
- Side-mounted tool changer
- Spray gun
- Compressed-air gun
- Operating status display
- Working spindle 10,000 rpm
- Spindle head cooled using cooling water
- Regulated cooling for main spindle
- Side-mounted flushing system
 (Mikron VCE 600 Pro to Mikron VCE 1400 Pro)
- * Coolant nozzles and air nozzles on spindle head
- * Roll out coolant tank
- Thread cutting without compensating chuck
- Heidenhain TNC 620 track controller
- USB 3.0 port
- Compatible with optional extras
- Ethernet port
- Mobile handwheel
- Additional protective screen

Accessories for all vertical machining centers Mikron VCE 600 Pro to 2000 Pro

- * Cooling through spindle (IKZ), 18 or 42 bar
- Belt filter unit to IKZ
- * Regulated cooling for main spindle (6,000/10,000/16,000 rpm)
- Compatible with fourth axis
- NC indexer as fourth axis
- * Spray ring to spindle
- Controllable coolant nozzle
- Spray mist extraction
- Infrared measurement and setup probe, type OMP 40-2
- Tool touch measuring system type TS27
- Integrated belt filter
- BT tool version
- Mechanical oil/coolant separator
- Chip trolley
- Minimum quantity lubrication
- Compatible with angled head
- * Additional protective screen

Cutting data for CK 45 1.1191 (approx. 800 N/mm²)

| | | VCE 600 Pro to VCE 1000 Pro | VCE 1200 Pro to VCE 2000 Pro |
|--------------------------|--------------|-----------------------------|------------------------------|
| Milling | | | |
| HM blade head / five b | olades | 10,000 rpm | 10,000 rpm |
| HM tool | | Flat-face mill 45° | Flat-face mill 45° |
| Tool diameter | mm | 63 | 63 |
| Cutting speed | m/min. | 160 | 160 |
| Speed | rpm | 809 | 809 |
| Feed rate | mm/min. | 809 | 809 |
| Plunging depth | mm | 5,5 | 6 |
| Plunging width | mm | 63 | 63 |
| Chip volume | cm³/min. | 281 | 305 |
| Spindle load | % | 120 | 120 |
| | | | |
| Drilling | | | |
| Insert drill / two blade | es / Ø 38 mm | 10,000 rpm | 10,000 rpm |
| Cutting speed | m/min. | 220 | 220 |
| Speed | rpm | 1843 | 1843 |
| Feed rate | mm/min. | 221 | 221 |
| Spindle load | % | 80 | 65 |
| | | | |
| Thread cutting | | | |
| HSS tap / M24 | | 10,000 rpm | 10,000 rpm |
| Cutting speed | m/min. | 10 | 10 |
| Speed | rpm | 133 | 133 |
| Feed rate | mm/min. | 398 | 398 |
| Plunge depth | mm | 36 | 36 |
| Spindle load | % | 45 | 40 |
| | | | |

About GF Machining Solutions

Multi-technology solutions provider

Our commitment to you and your specific applications is proven by the value-adding intelligence, productivity and quality delivered by our multi-technology solutions. Your success is our chief motivator. That's why we are continuously advancing our legendary technical expertise. Wherever you are, whatever your market segment and whatever the size of your operation, we have the complete solutions and the customer-centric commitment to accelerate your success—today.

EDM (Electrical Discharge Machining)









Millina



Advanced manufacturing







Wire-cutting EDM

GF Machining Solutions' wire-cutting EDM is fast, precise and increasingly energy efficient. From ultraprecise machining of miniaturized components down to 0.02 mm to powerful solutions for demanding high-speed machining with respect to surface accuracy, our wire EDM solutions position you for success.

Die-sinking EDM

GF Machining Solutions is revolutionizing diesinking EDM with features like iGAP technology to dramatically boost machining speed and reduce electrode wear. All of our die-sinking systems offer fast removal and deliver mirror finishes of Ra 0.1 μ m (4 μ in).

Hole-drilling EDM

GF Machining Solutions' robust hole-drilling EDM solutions enable you to drill holes in electrically conductive materials at a very high speedand, with a five-axis configuration, at any angle on a workpiece with an inclined surface.

Precision tool and mold manufacturers enjoy a competitive edge with our Mikron MILL S solutions' fast and precise machining. The Mikron MILL P machines achieve above-average productivity thanks to their high performance and Automation. Customers seeking fastest return on investment benefit from the affordable efficiency of our MILL E solutions.

High Performance Airfoil Machining

Our Liechti turnkey solutions enable the highly dynamic manufacturing of precision airfoils. Thanks to the unique performance and our expertise in airfoil machining, you increase productivity by producing at the lowest cost per part.

As part of GF Machining Solutions, Step-Tec is engaged in the very first stage of each machining center development project. Compact design combined with excellent thermal and geometric repeatability ensure the perfect integration of this core component into the machine tool.

Aesthetic and functional texturing is easy and infinitely repeatable with our digitized Laser technology. Even complex 3D geometries, including precision parts, are textured, engraved. microstructured, marked and labeled.

GF Machining Solutions offers the industry's most complete line of Laser micromachining platforms optimized for small, high-precision features to meet the increasing need for smaller, smarter parts to support today's leading-edge products.

Laser Additive Manufacturing (AM)

GF Machining Solutions and 3D Systems, a leading global provider of additive manufacturing solutions and the pioneer of 3D printing, have partnered to introduce new metal 3D printing solutions that enable manufacturers to produce complex metal parts more efficiently.

Tooling and Automation





Software



Service + Success



Our customers experience complete autonomy while maintaining extreme accuracy, thanks to our highly accurate System 3R reference systems for holding and positioning electrodes and work pieces. All types of machines can easily be linked, which reduces set-up times and enables a seamless transfer of workpieces between different operations.

Automation

Together with System 3R, we also provide scalable and cost-effective Automation solutions for simple, single machine cells or complex, multiprocess cells, tailored to your needs.

Digitalization solutions

To drive its digital transformation, GF Machining Solutions acquired symmedia GmbH, a company specialized in software for machine connectivity. Together, we offer a complete range of Industry 4.0 solutions across all industries. The future requires the agility to adapt quickly to continual digital processes. Our intelligent manufacturing offers embedded expertise, optimized production processes, and workshop Automation: solutions for smart and connected machines.

We take you to new heights

Our Success Packs are designed to maximise you return on investment and empower you in your quest for success across all industrial segments. Our subscription packs feature a comprehensive range of services that guarantee the access and support you need to get the most out of your assets today, while preparing for the challenges of tomorrow. Our trusted experts backed by our latest cutting-edge, intelligent Digital Solutions, provide a full range of services.