VCE PRO

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



MIKRON MILL

A member of UNITED MACHINING SOLUTIONS

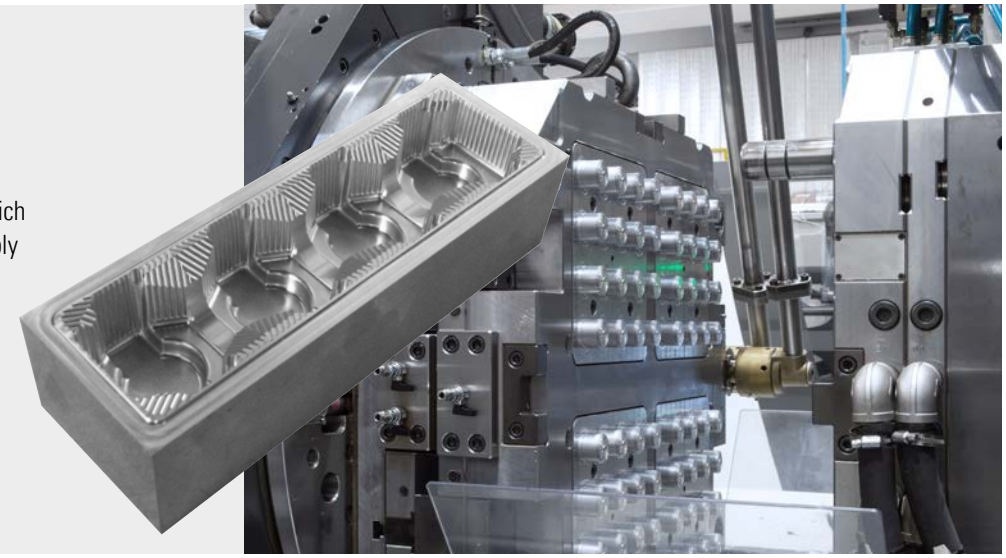
TYPICAL APPLICATIONS

- 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

Mold for biscuit packaging

- Al 99.5 aluminum
- Mold construction
- Machined using HSC technology
- Minimum quantity lubrication
- The machine is highly dynamic, which reduces machining time considerably
- Machining time including rough machining approx. 7 h
- The tools are measured by laser



Automotive

Motor flange

- X38CrMoV 5 1
- High-alloy hot-working steel
- Mechanical engineering
- Thread cutting without compensating chuck
- The touch probe was used to automatically align machining on the back
- Tools measured using the tool touch measuring system



Machinery and general mechanics

Four-axis cutting drum

- 34CrAlMo5 nitrided steel
- Paper industry
- Cutting drum contours absolutely precise
- Programmed using the cylinder mantel milling function
- With a 0.5 ms block processing time, even complex contours can be executed quickly



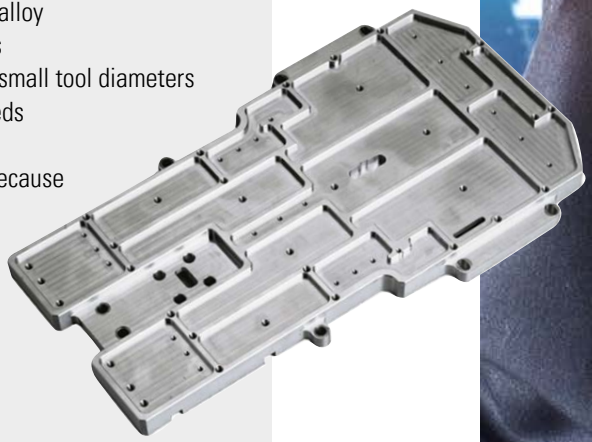
Fixture

- Ck45
- Mechanical engineering
- High cutting performance
- Precision round-pocket milling
- Preset pocket milling cycles make programming on the machine quick and easy



Baseplate

- AlCu4Mg1.5
- High-strength aluminum alloy
- Electronics/mechatronics
- High cutting speeds and small tool diameters require high spindle speeds
- High-quality surface
- Longer tool service life because tool is cooled





HIGH-EFFICIENCY MILLING

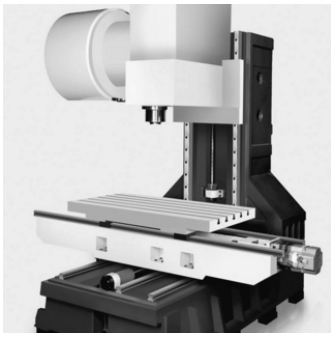
Get a stiff machine base and high-tech key components—along with CNC, Spindle and accuracy-supporting linear scales included—to drive your success.

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



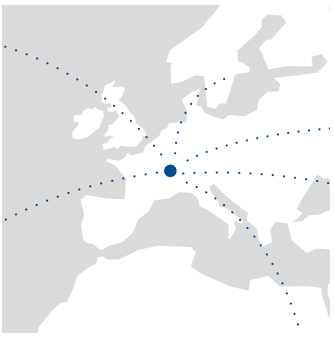
THE RIGHT SOLUTION—FOR YOU



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

MIKRON MILL 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.

OPTIONAL LINEAR SCALES

ensures a constant level of precision for machining, even when temperatures fluctuate.

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.

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.

X		Y		Z	
VCE 600 PRO	600 mm	VCE 600 PRO	500 mm	VCE 600 PRO	540 mm
VCE 800 PRO	800 mm	VCE 800 PRO	500 mm	VCE 800 PRO	540 mm
VCE 800W PRO	860 mm	VCE 800W PRO	560 mm	VCE 800W PRO	600 mm
VCE 1000 PRO	1020 mm	VCE 1000 PRO	560 mm	VCE 1000 PRO	600 mm
VCE 1200 PRO	1200 mm	VCE 1200 PRO	600 mm	VCE 1200 PRO	675 mm
VCE 1400 PRO	1400 mm	VCE 1400 PRO	650 mm	VCE 1400 PRO	675 mm
VCE 1600 PRO	1600 mm	VCE 1600 PRO	900 mm	VCE 1600 PRO	800 mm
VCE 2000 PRO	2000 mm	VCE 2000 PRO	900 mm	VCE 2000 PRO	800 mm


Z
X
Y

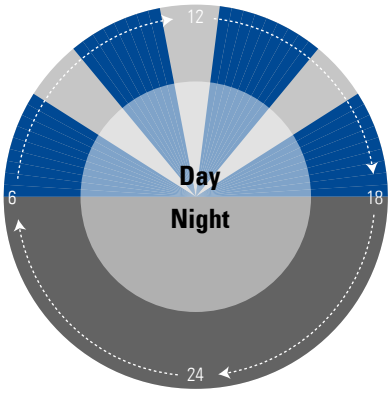
ADDITIONAL WORKING HOURS AT LOWEST COST

The well-established MIKRON MILL 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 MIKRON MILL will offer a Robot Interface option for the VCE PRO series. With this option, MIKRON MILL opens the possibility to connect the machine with an automation system either from SYSTEM 3R 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

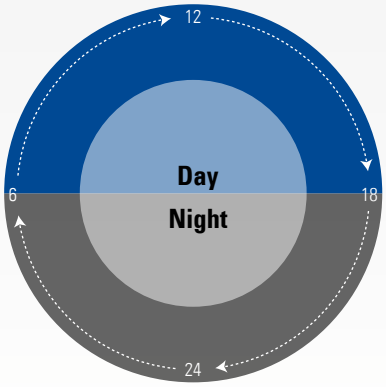
Upgrade the machine:
clamping with SYSTEM 3R



+20%
PRODUCTIVITY

STEP 2

Extend your system:
pallet magazine and clamping with SYSTEM 3R

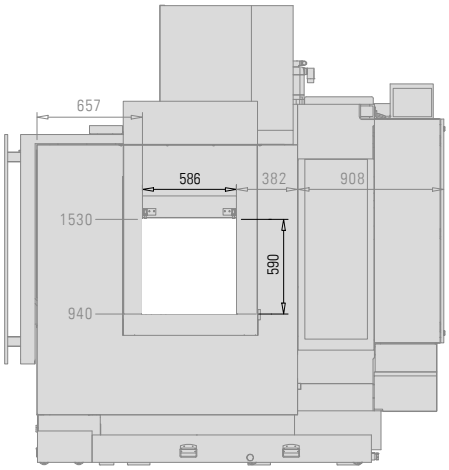


+16H
ADDITIONAL CAPACITY DAILY

You'll run additional shifts 24/7 at lowest cost.







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

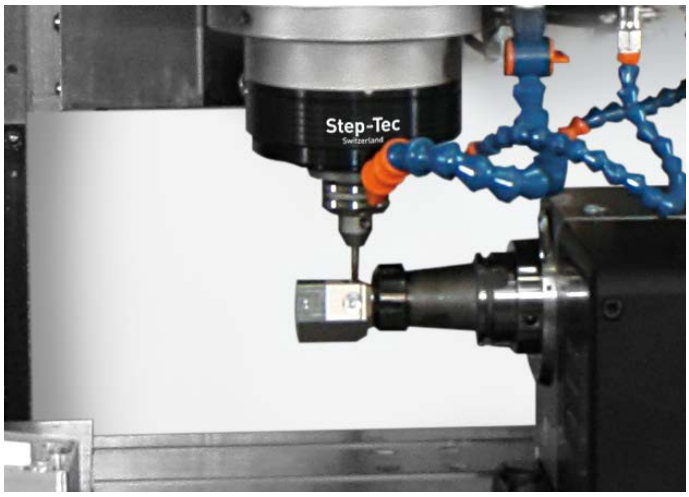




MIKRON MILL VCE 800 PRO: a large working space makes it easy to work on voluminous workpieces.

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

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 MILL 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 MILL 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.



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.



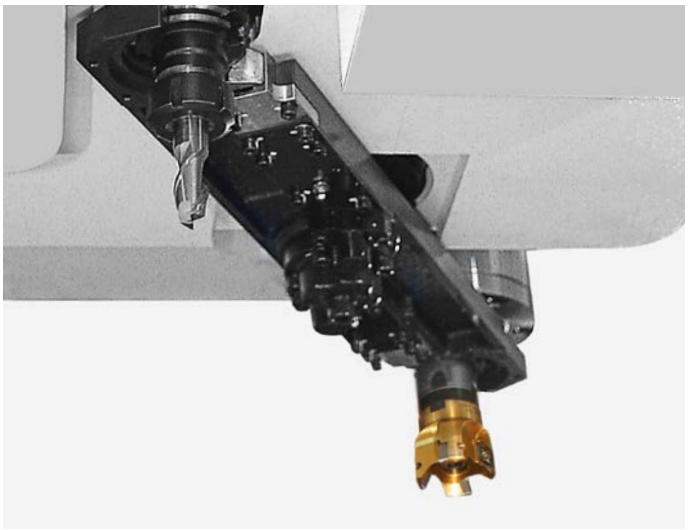


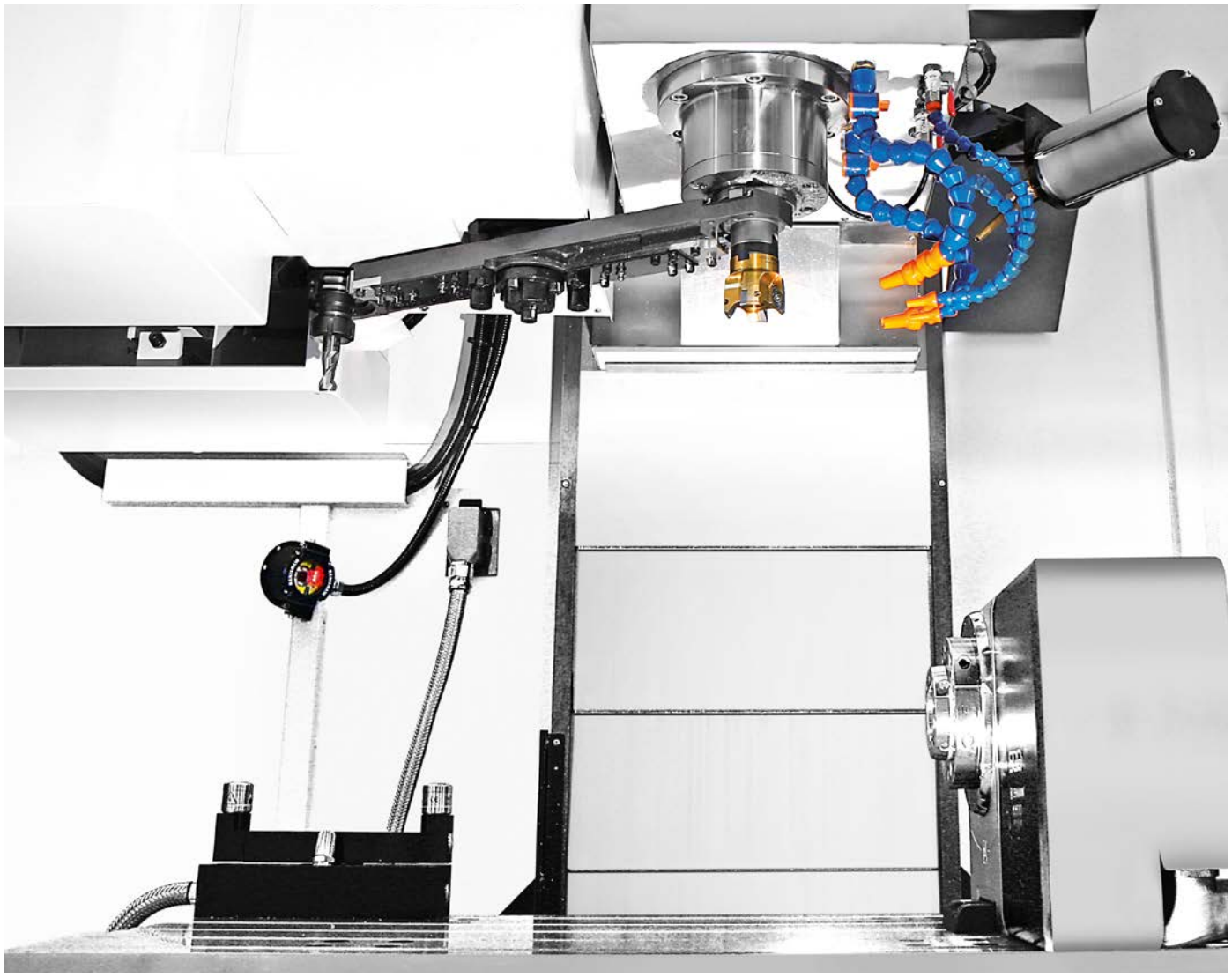
NO RESTRICTIONS ON WORKING SPACE ACCESSIBILITY

- 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





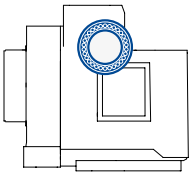
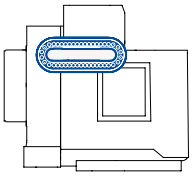
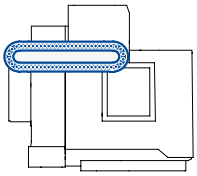
MORE PRODUCTIVITY WITH LARGER TOOL MAGAZINES



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.

	24 / 30 TOOL PORTS				**40** TOOL PORTS			**60** 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 1400 PRO	VCE 600 PRO VCE 800 PRO VCE 800W PRO VCE 1000 PRO VCE 1200 PRO VCE 1400 PRO	VCE 1600 PRO VCE 2000 PRO	VCE 1600 PRO VCE 2000 PRO	VCE 600 PRO VCE 800 PRO VCE 800W PRO VCE 1000 PRO VCE 2000 PRO	VCE 600 PRO VCE 800 PRO VCE 800W PRO VCE 1000 PRO VCE 1200 PRO VCE 1400 PRO VCE 1600 PRO VCE 2000 PRO	VCE 1600 PRO	VCE 800W PRO VCE 1000 PRO VCE 1200 PRO VCE 1400 PRO	VCE 800W PRO VCE 1000 PRO VCE 1200 PRO VCE 1400 PRO VCE 1600 PRO VCE 2000 PRO
Tool magazine (type)	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted	Double-arm, side-mounted
Number of tool ports	24	24	30	24	40	40	40	60	60
Tool selection	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional	Bidirectional
Maxi. 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
Max. tool length (mm)	305	305	305	350	305	305	350	305	305
Max. 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



There are no limits to how the MIKRON MILL VCE PRO machines can be used. This one is being used in die and mold construction for smoothing using a round-head cutter. Because the MIKRON MILL VCE PRO spindle can rotate at 16,000 rpm, the necessary cutting speeds can even be achieved using small tools.

SPECTACULAR PERFORMANCE IN HIGH EFFICIENCY MILLING

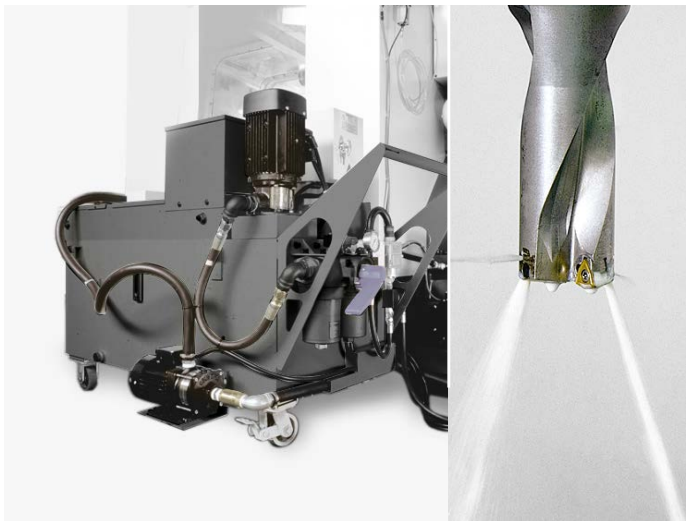
Programmed precision
Gone are the days of time-consuming and imprecise manual adjustments on the coolant inlet. A programmable coolant nozzle directs the jet automatically to precisely where the action is after each tool change (optional).





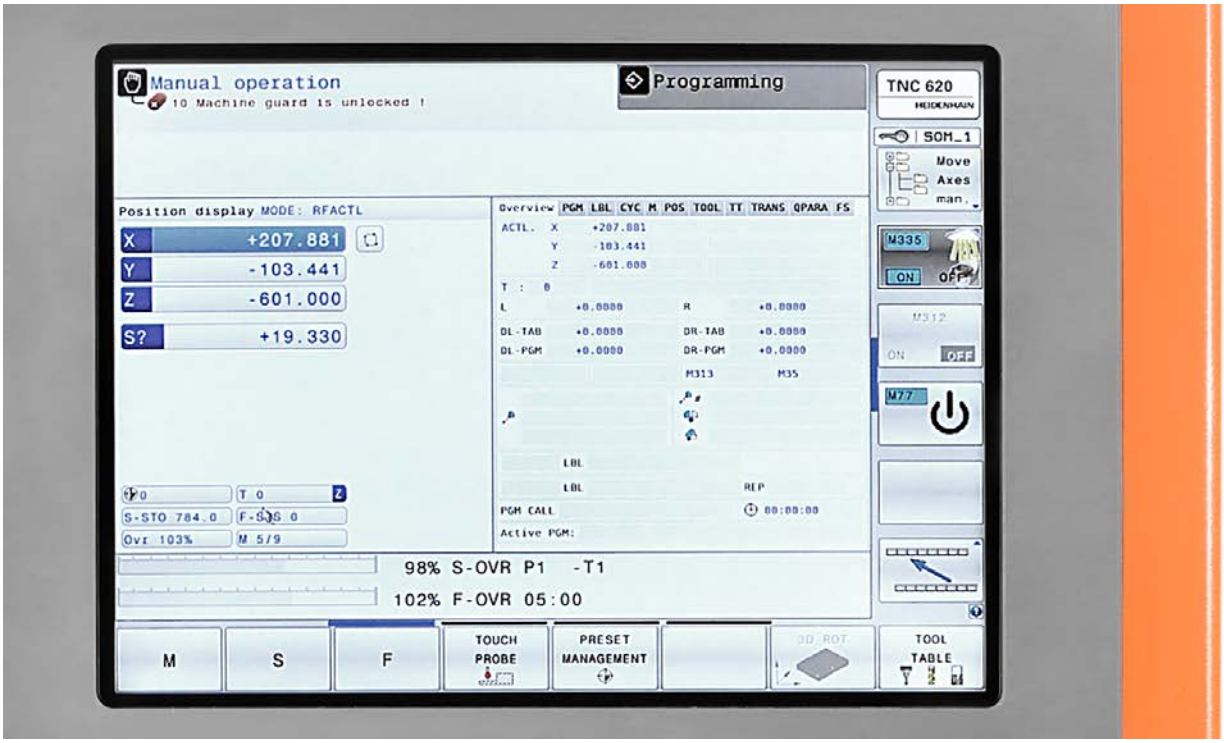


All-around cooling with spray ring
Cooling is always guaranteed with the optional spray ring (optional).



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



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)

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 MILL 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).

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



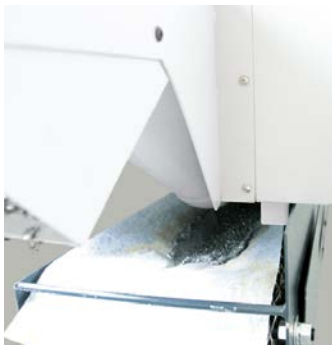
Basic supply unit for IKZ
(internal coolant supply), 18 bar



Supply unit for IKZ, 18 or 42 bar



Belt filter unit on cooling water tank



Integrated belt filter for sizes 600-1000



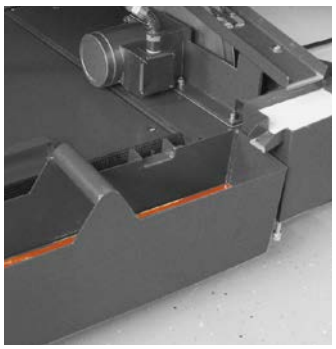
Spray ring



Programmable coolant nozzle



Minimum quantity lubrication



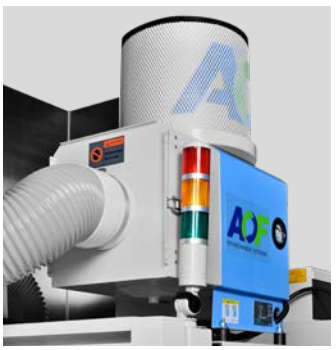
Mechanical oil/coolant separator



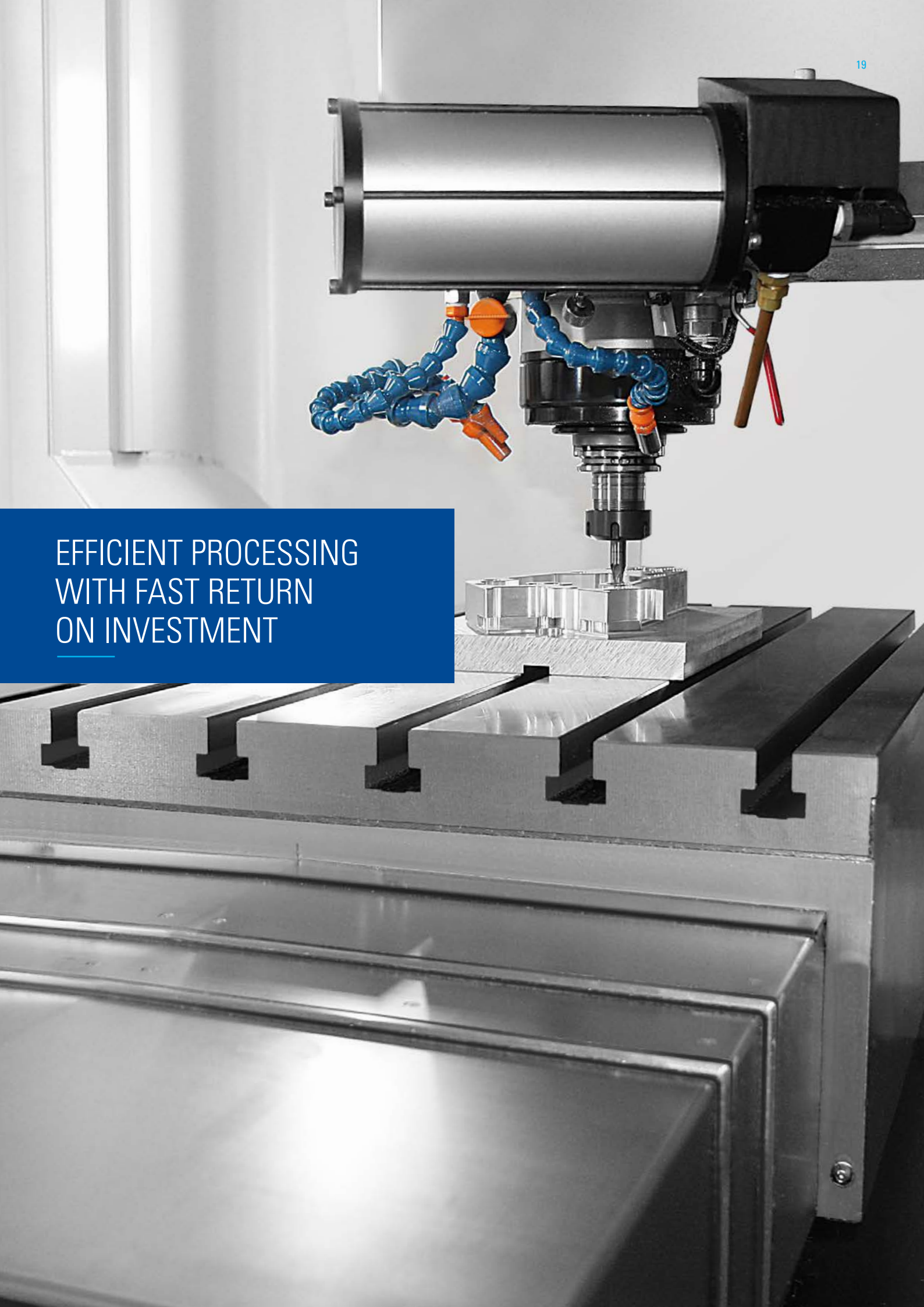
Indexer



Spindle cooling system water/water



Powerfull mist extraction unit
for VCE PRO 1600-2000



EFFICIENT PROCESSING WITH FAST RETURN ON INVESTMENT

SERVICE + SUCCESS

Our Service + Success experts deliver end-to-end support with proactive expertise, digital tools, and hands-on service to ensure your machines perform at their best throughout their life cycle.



Secure your sustainable machining success
A huge network of highly-trained experts delivering preventive maintenance and advanced support

Grow your people skills
Performance oriented training academy with a human-centric and hands-on approach of knowledge transfer

Realize the full potential of your equipment
Advanced diagnostics, certification, upgrades, training, and financial solutions

My rConnect

Digital services for all your UNITED MACHINING machines, anytime, anywhere
My rConnect is your gateway to advanced digital assistance. Enjoy simple navigation and direct access to UNITED MACHINING support, for all connected and unconnected machines, regardless of their age.

Free standard features
- Asset overview
- Service case management
- Conferencing and communication
- Machine documentation

On-demand features
- Remote access
- Live data



SUCCESS PACKS: TAILORED SERVICE SOLUTIONS FOR EVERY NEED

Success Packs are three annual subscription levels designed to support your machines throughout their life cycle. Whether you aim to reduce downtime, prevent issues, or avoid unexpected repair costs, there's a plan to match your needs.

BRONZE

For full responsiveness
Fast reply services to ensure machines are swiftly back up and running

SILVER

For peak performance
Periodic maintenance services to keep your machines in optimal condition

GOLD

For guaranteed peace of mind
Extended warranty coverage to mitigate financial risks and focus on your core business



CHOOSE YOUR PACK

	BRONZE	SILVER	GOLD
Speedy access Fast track for support	✓	✓	✓
Extended remote support 24/5 expert support through My rConnect	✓	✓	✓
Certified preventive maintenance Annual machine service performed under UNITED MACHINING standards		✓	✓
Core components diagnosis Annual checkup on the core machine components		✓	✓
Discounts Preferred prices for parts and labor		✓	✓
Extended warranty For up to five years			✓

TECHNICAL DATA



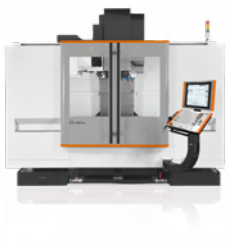




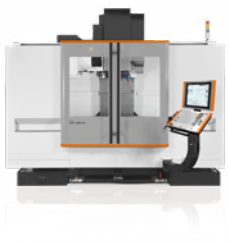
		MIKRON MILL VCE 600 PRO	MIKRON MILL VCE 800 PRO	MIKRON MILL VCE 800W PRO
TRAVEL RANGES				
Longitudinal (X)	mm	600	800	860
Transverse (Y)	mm	500	500	560
Vertical (Z)	mm	540	540	600
Max. distance between spindle tip and worktable	mm	690	690	735
TOOL SPINDLE				
Maximum speed up to	rpm	10,000 belt drive	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
Spindle 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		5	5	5
T-groove spacing	mm	100	100	100
T-groove dimensions	mm	18 $^{+0.006/+0.024}$	18 $^{+0.006/+0.024}$	18 $^{+0.006/+0.024}$
COOLING				
Coolant tank capacity	l	300	300	300
CONTROLLER				
	Type	Heidenhain TNC 620	Heidenhain TNC 620	Heidenhain TNC 620
MACHINE WEIGHT				
	kg	4,800	5,000	6,500



MIKRON MILL VCE 1000 PRO



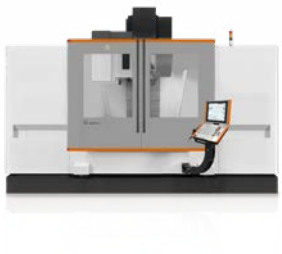
MIKRON MILL VCE 1200 PRO



MIKRON MILL VCE 1400 PRO



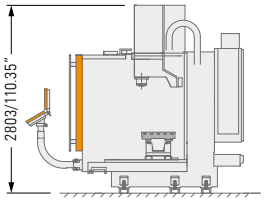
MIKRON MILL VCE 1600 PRO

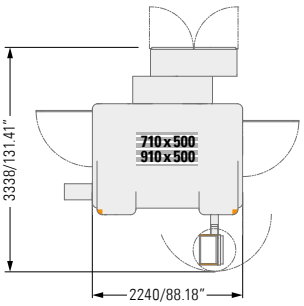


MIKRON MILL VCE 2000 PRO

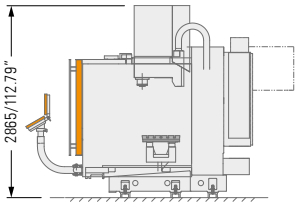
1,020	1,200	1,400	1,600	2,000
560	600	650	900	900
600	675	675	800	800
735	775	775	900	900
10,000 belt drive	10,000 belt drive	10,000 belt drive	10,000/6,000 belt drive	10,000/6,000 belt drive
18.5 @ 1,188	18 @ 823	18 @ 823	18 @ 823	18 @ 823
149	209	209	209/350	209/350
ISO-B40	ISO-B40	ISO-B40	ISO-B40 / 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
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 40/60 HSK-A63	30/40/60 ISO-B40 24 ISO-B50 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

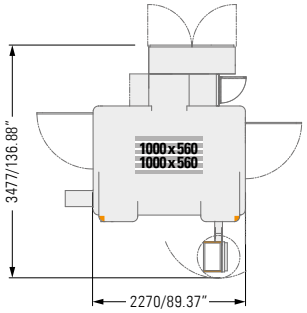
	X	Y	Z
MIKRON MILL VCE 600 PRO	600	500	540
MIKRON MILL VCE 800 PRO	800	500	540



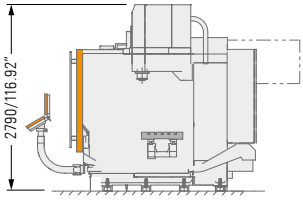


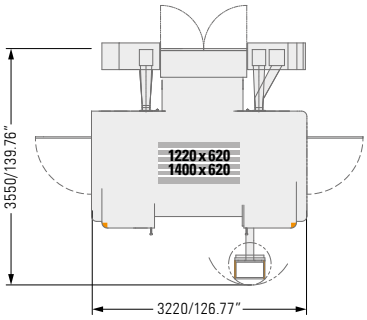
	X	Y	Z
MIKRON MILL VCE 800W PRO	860	560	600
MIKRON MILL VCE 1000 PRO	1020	560	600



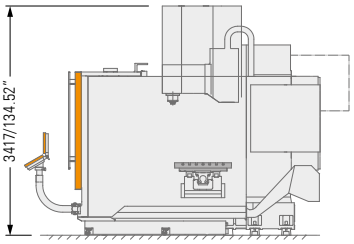


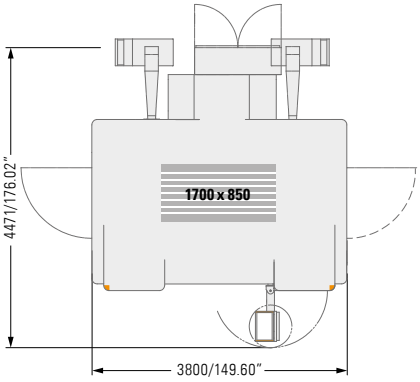
	X	Y	Z
MIKRON MILL VCE 1200 PRO	1200	600	675
MIKRON MILL VCE 1400 PRO	1400	650	675



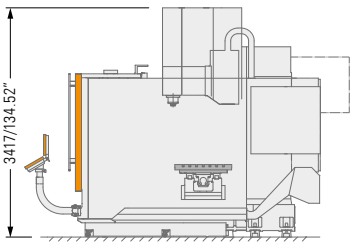


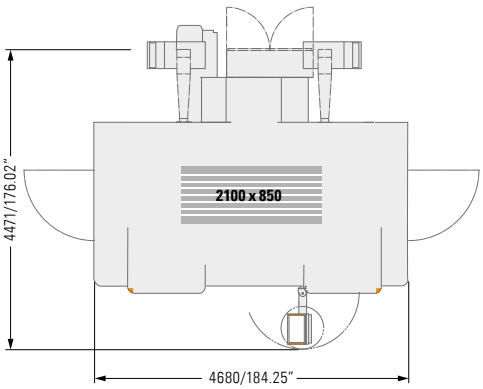
	X	Y	Z
MIKRON MILL VCE 1600 PRO	1600	900	800





	X	Y	Z
MIKRON MILL VCE 2000 PRO	2000	900	800





Standard equipment for all MIKRON MILL 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 MILL VCE 600 PRO to MIKRON MILL 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 MILL 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)

MILLING

		VCE 600 PRO TO VCE 1000 PRO	VCE 1200 PRO TO VCE 2000 PRO
HM blade head / five blades		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	cm^3/min	281	305
Spindle load	%	120	120

DRILLING

Insert drill / two blades / 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

MIKRON MILL

MIKRON MILL is a global expert in vertical milling and the inventor of high-speed milling. Renowned for dynamic precision and free-form accuracy, our automation-ready machines deliver top performance in complex applications. MIKRON MILL stands for innovation, agility, and lasting value.

Year of foundation 1908
Head office Biel, Switzerland

Dynamic precision and ergonomic automation define the MIKRON MILL DNA. Frictionless torque motors enable ultra-smooth 5-axis movement for outstanding surface finishes.

Customers seeking fast ROI benefit from the efficient and affordable MILL E series. The MILL P machines deliver above-average productivity with high performance and automation. Our iconic MILL S/X series represents the peak of high-speed milling, offering unmatched surface finish, precision, and cycle time for complex parts. Optional grinding functionality expands application possibilities. Smart features like OSS, Automated Machine Calibration (AMC), and Econowatt make complex part production easier, even for skilled operators.



ABOUT US

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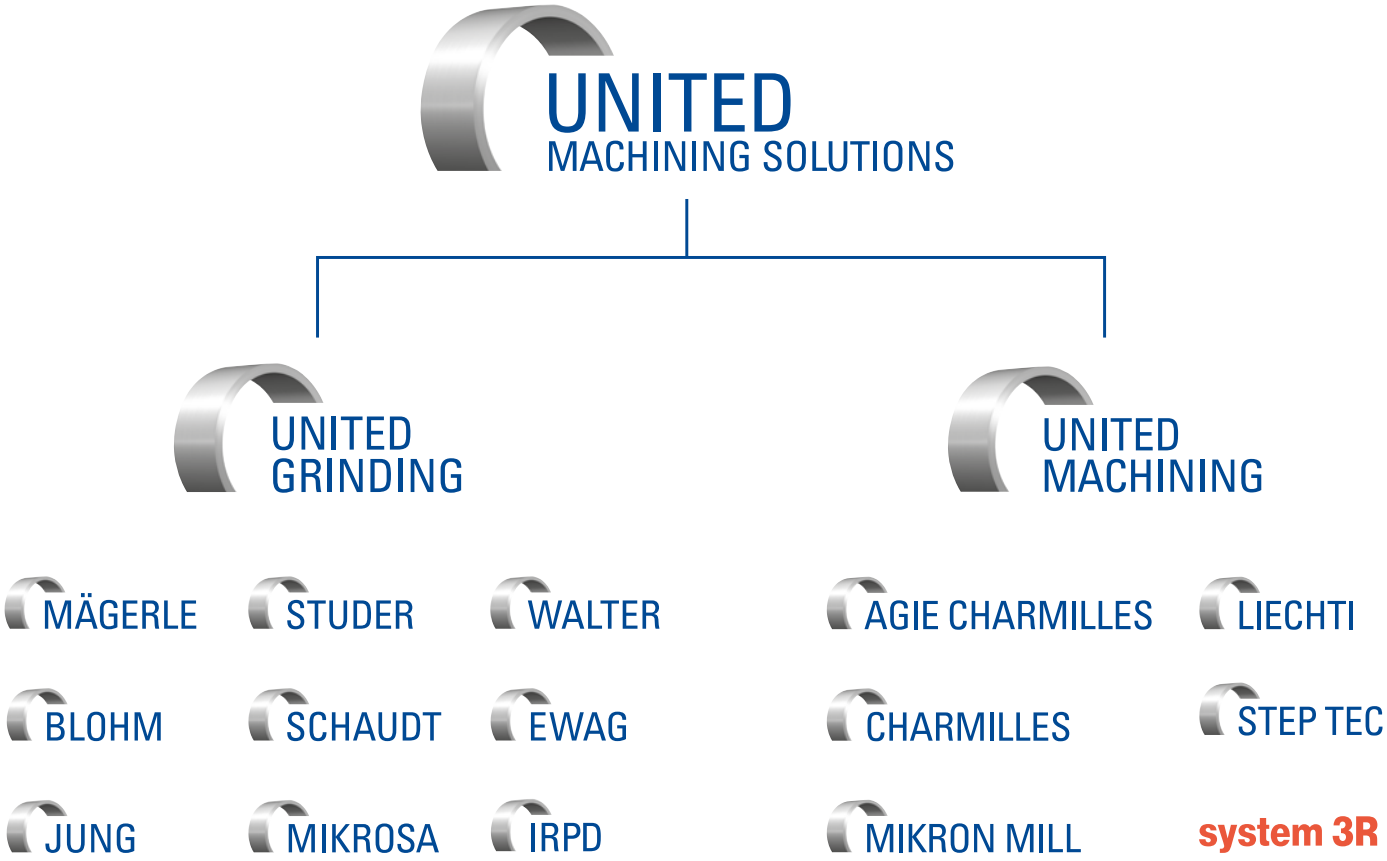
UNITED MACHINING SOLUTIONS

UNITED MACHINING SOLUTIONS is one of the largest machine tool manufacturers in the world. With around 5,000 employees at over 50 global production, service and sales locations, UNITED MACHINING SOLUTIONS is close to its customers and highly efficient. The group is organized into two divisions: UNITED GRINDING and UNITED MACHINING.

UNITED GRINDING includes the brands MÄGERLE, BLOHM, JUNG, STUDER, SCHAUDT, MIKROSA, WALTER, EWAG and IRPD. Its technologies include surface and profile grinding machines, cylindrical grinding machines, machines for tool machining and machine tools for additive manufacturing.

The UNITED MACHINING division includes the brands AGIE CHARMILLES, CHARMILLES, MIKRON MILL, LIECHTI, STEP TEC and SYSTEM 3R. It includes machines for EDM (Electrical Discharge Machining), high-speed milling and laser technology as well as spindle production and automation solutions.

«We want to make our customers even more successful»



MIKRON MILL

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BLUeCOMPETENCE
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Partner of the Engineering Industry
Sustainability Initiative