

ecoMill 50

ecoMill 70

ecoMill 635 V

ecoMill 1035 V

ECOLINE // SIMPLY MORE SUCCESS

ecoMill and ecoMill V



Machine highlights

Machine and technology

Control technology

Options / quality and service

Technical data

NEW
ecoMill 70

ecoMill and ecoMill V series

New technology with dynamic 12,000 rpm spindle.

A modern machining centre must be productive, flexible and easy to operate. The models in the *ecoMill* series demonstrate this with their C-frame design. The practical *SLIMline*[®] user interface, which is optionally delivered with SIEMENS 840D solutionline, HEIDENHAIN TNC 620 or MAPPS IV with MITSUBISHI, makes it easy for both novices and seasoned professionals to exploit the full potential of the machine. It is always a question of the fastest route from the idea to the finished workpiece.

More clarity!

LED signal light

- + Provides information on the status of the machine
- + Improves process reliability and the efficiency of work processes

More information!

Unique PROGRESSline

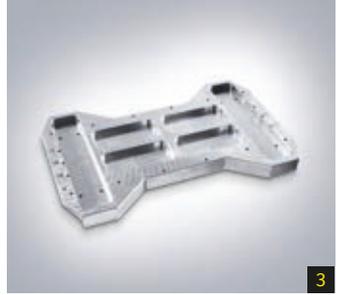
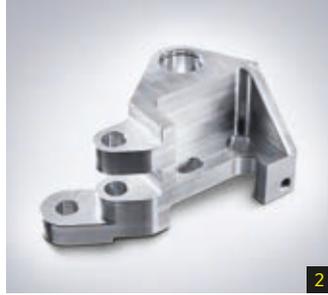
- + Keep an eye on your production
- + The remaining production time and a running total of the parts produced are clearly displayed

A better view!

45 % larger viewing panels

- + For the best view of what is happening in the working area
- + Perfect lighting with the cutting-edge *PLANONlight* featuring energy-efficient LED technology





1 ecoMill: Main shaft support (automotive), aluminium, 125 × 95 × 62 mm

2 ecoMill: Bearing (automotive), aluminium, 108 × 65 × 55 mm

3 ecoMill V: Adapter plate, aluminium, 325 × 200 × 23 mm

Highlights

- + **Powerful spindles:**
12,000 rpm / 83 Nm (40 % ED) / 13 kW (40 % ED)
- + **Tool change system:**
16 / 32 stations for *ecoMill*,
20 / 30 stations for *ecoMill V*
and faster indexing time
- + **Shorter non-productive times:**
30 m/min rapid traverse for *ecoMill V*
and 24 m/min for *ecoMill*
- + **The greatest rigidity and precision**
plus lower space requirements thanks
to the C-frame design
- + **Direct distance measurement system***
and centrally lubricated recirculating
roller guideways for high long-term
precision
- + **3D control system technology:**
15" SLIMline® with Operate 4.5 on
SIEMENS 840D solutionline, 15"
SLIMline® with HEIDENHAIN TNC 620
or 15" SLIMline® with MAPPS IV
and MITSUBISHI
- + **DMG SMARTkey®**
- + **DMG Netservice**

* optional



More operating comfort!

3rd generation SLIMline®

- + The ergonomic control panel provides maximum operating comfort. Scratch-proof high-tech surface finish also provides long-term protection against wear and extends the service life of the machine.

More premium!

LIGHTline

- + Brand-specific lighting
- + Elegant and modern, including high-quality lights that communicate information efficiently

New design!

High-tech surfaces

- + Low-maintenance surfaces for your everyday production work

UNO 20140

Tool pre-setting at a high level
and at an attractive price.

More detailed information is
available on www.dmgmori.com



**UNO
20140**

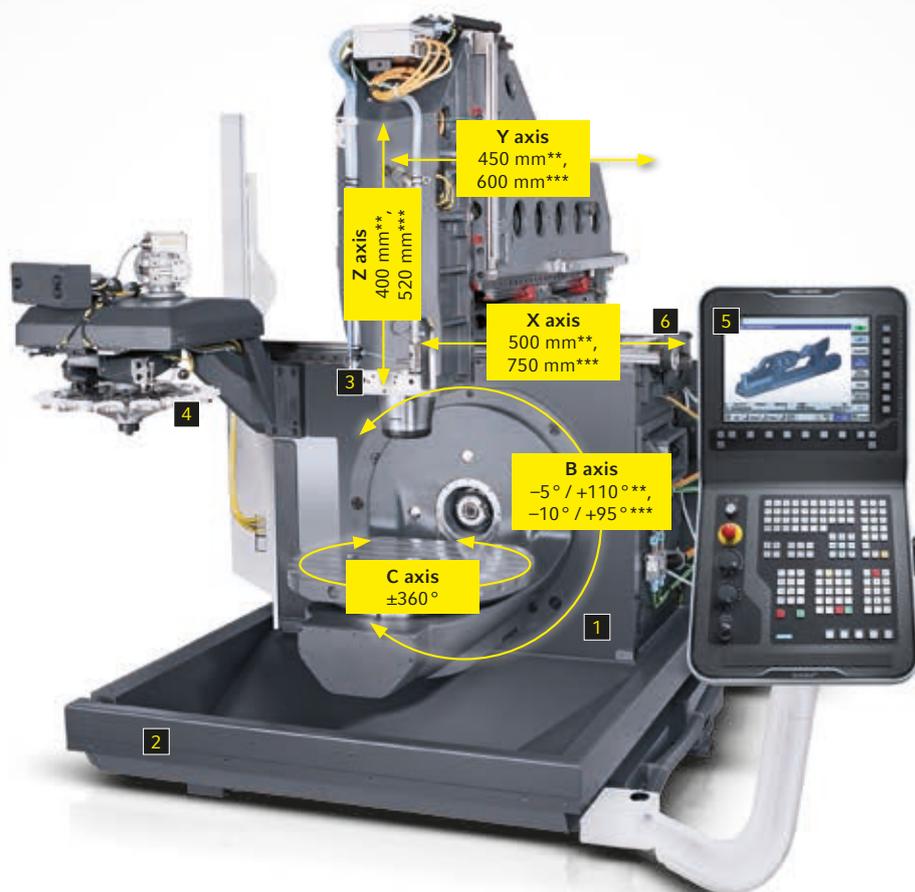


ecoMill series

Powerful technology for entry-level 5-sided machining.

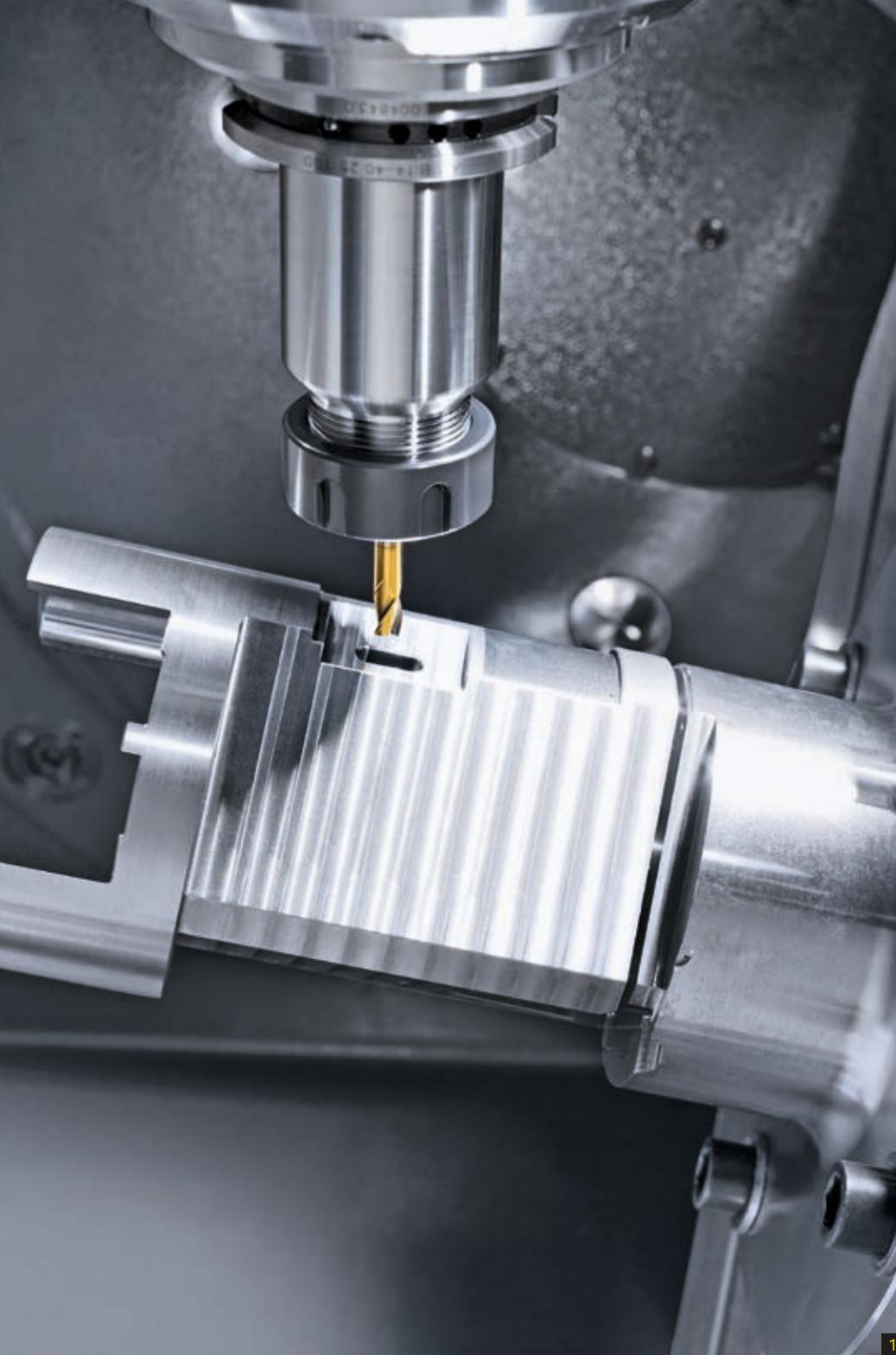
Nothing can defeat the *ecoMill* – the modern C-frame design with integrated NC-controlled B and C axis table and inherently stable, ribbed cast iron frame deliver maximum stability. Combined with the recirculating roller guideways, it delivers the highest precision and the best surface finishes.

- 1 Cast iron C-frame design**
With B and C axis table; Maximum stiffness and a minimal footprint
- 2 Stability and precision**
Stable mineral composite bed with four-point support, outstanding damping properties and optimal chip removal
- 3 Powerful spindles**
For the best cutting performance
- 4 16 / 32-station* tool magazine**
Pick-up (16-station magazine); With double gripper for rapid tool change (32-station magazine)
- 5 The best control technology**
With 3D simulation and graphics support
- 6 Dynamic axis drives**
For feeds of up to 24 m/min



		<i>ecoMill 50</i>	<i>ecoMill 70</i>
Traverse (X / Y / Z)	mm	500 / 450 / 400	750 / 600 / 520
Spindle speed	rpm	12,000	12,000
Torque (40 / 100 % ED)	Nm	83 / 57	83 / 57
Drive power (40 / 100 % ED)	kW	13 / 9	13 / 9
Number of workpiece stations		16 / 32*	32
Rapid traverse (X / Y / Z)	m/min	24 / 24 / 24	24 / 24 / 24
Max. table load	kg	200	350
NC swivelling rotary table	degrees	-5 / +110	-10 / +95

* optional, ** data for *ecoMill 50*, *** data for *ecoMill 70*



NC swivelling rotary table

- + The highest stability thanks to hydraulic clamping systems in the B and C axes
- + Enormous swivel range on the B axis ranging from -5° to $+110^{\circ}$ on the *ecoMill 50* and from -10° to $+95^{\circ}$ on the *ecoMill 70* (C axis: 360°)
- + 5-sided machining of workpieces weighing up to 200 kg on the *ecoMill 50* and 350 kg on the *ecoMill 70* in just one clamping
- + The highest profile and positional tolerances, especially in the alignment of opposing holes
- + Patented NC swivelling rotary table: highly ergonomic, optimal accessibility, optimal chip removal

05

1

Automated 5-sided machining

The integrated patented NC swivelling rotary table has a maximum workpiece mounting surface of $\varnothing 630 \times 500$ mm or $\varnothing 800 \times 620$ mm and a maximum load of 200 kg or 350 kg. Thanks to 5-sided machining in just one clamping, the precision of the finished parts is substantially increased and the set-up time is reduced, making the *ecoMill* with NC swivelling rotary table the high-efficiency solution for almost all workpieces.



2

1: Swivel range: 115° (-5° / $+110^{\circ}$) for the *ecoMill 50* and 105° (-10° to $+95^{\circ}$) for the *ecoMill 70* 2: Hydraulic table clamping and maximum table load of 200 kg on the *ecoMill 50* and 350 kg on the *ecoMill 70*

ecoMill V series

Stable C-frame and ECOLINE options kit.

1 Cast iron C-frame design

Table moves in the X-axis; Maximum stiffness and a minimal footprint; Good chip removal

2 Stability and precision

Recirculating roller guideways in all axes, 3-point support for the machine

3 Powerful main drive

For the best cutting performance

4 20 / 30-station* tool magazine

Double gripper for rapid tool change

5 Cutting-edge control technology

With 3D simulation and graphic support

6 Dynamic axis drives

For feeds of up to 30 m/min



ecoMill 1035 V

The *ecoMill V* series is based on a C-frame cast iron bed for the best stiffness and vibration characteristics. Ball screws of the highest quality, linear roller guideways and a 12,000 rpm spindle were combined to meet the highest standards in production. A comprehensive options kit, e.g. with linear scales for direct distance measurement or a production package with a 12-bar internal coolant supply (optionally 20 bar with paper belt filter and 600-litre tank) and a 30-station tool magazine, is at your disposal. The low connected load, efficient power consumption and energy recovery ensure a good energy utilisation.

!!!
PRECISION

		<i>ecoMill 635 V</i>	<i>ecoMill 1035 V</i>
Traverse (X / Y / Z)	mm	635 / 510 / 460	1,035 / 560 / 510
Maximum spindle speed	rpm	12,000	12,000
Maximum torque (40 / 100 % ED)	Nm	83 / 57	83 / 57
Drive power (40 / 100 % ED)	kW	13 / 9	13 / 9
Number of tool stations		20 / 30*	20 / 30*
Rapid traverse	m/min	30 / 30 / 30	30 / 30 / 30
Table load (total weight)	kg	600	1,000

* optional



ecoMill 635 V



More clarity!

15" TFT display with 3D workpiece simulation for easy monitoring on the screen.

More power!

Rapid USB data interface for externally generated programs.

More comfort!

Full ASCII keyboard for exceptionally easy programming.

More storage capacity!

4 GB program expansion with the CF storage card supplied as standard.

More variety!

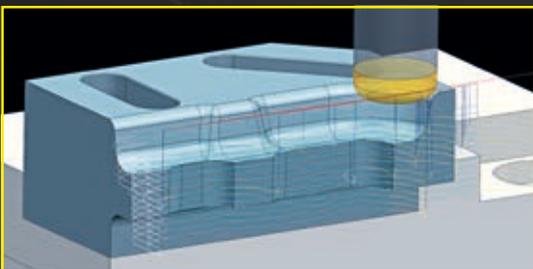
All cycles supplied as standard.

More effectiveness!

Quickly and reliably generate the finished NC program with powerful, standardised CAM programming thanks to SIEMENS NX CAD / CAM and a post-processor certified for the ECOLINE machines.

Highlights

- + SIEMENS NX CAD / CAM programming station
- + Certified processor
- + Efficient, reliable and fast



SLIMline® with MAPPS IV and MITSUBISHI

- + MAPPS IV user system with control console and front-end Windows PC
- + 3D machining simulation for easy contour verification
- + Automatic programming function with process menu
- + CNC operation through use of the external and user storage
- + Import and output of programs over MORI SEIKI servers using external PCs
- + File display and note function for accessing operating instructions, drawings and texts
- + Vertical soft keys can be set as menu or direct access buttons for quickly displaying the data selected by the user

3D



SLIMline®

with Operate 4.5 SIEMENS 840D solutionline with ShopMill as standard and DMG SMARTkey®

- + 15" TFT display with a clear screen design
- + The latest generation of software and intuitive user guidance from the drawing to the finished workpiece
- + 3D workpiece simulation
- + Workshop-oriented programming
- + Numerous cycles such as rigid tapping, pocketing and inclined contours as standard
- + The program memory consists of 5 MB NC storage and an additional 4 GB on a CF card
- + 1.5 × faster block processing time

ecoMill and ecoMill V series

Control system equipment

	SLIMline® with Operate 4.5 on SIEMENS 840D solutionline	SLIMline® with HEIDENHAIN TNC 620	SLIMline® with MAPPS IV and MITSUBISHI
Monitor	15" colour	15" colour	15" colour
Access protection	DMG SMARTkey®	DMG SMARTkey®	Password
Programming	DIN, ShopMill	DIN, plain text programming	DIN, CAPS
Simulation	3D workpiece simulation	3D workpiece simulation	3D workpiece simulation
Program memory	5 MB + 4 GB	1.8 GB	50 MB, 6 GB optional
Block processing time	1.5 ms	1.5 ms	2 ms
Interface	USB, ethernet	USB, ethernet	USB, ethernet
Programming help	Online programming handbook	Online programming handbook	Online programming handbook
External programming	SINUTRAIN	TNC 620 (programming station)	MORI-AP
ecoMill 50	•	◦	—
ecoMill 70	•	◦	—
ecoMill 635 V	•	◦	◦
ecoMill 1035 V	•	◦	◦

• standard, ◦ optional, — not available



SLIMline®

HEIDENHAIN TNC 620 with plain text dialogue and DMG SMARTkey®

- + 15" TFT display with a clear screen design
- + Convenient programming with the new full ASCII keyboard
- + 1.5 ms block processing time as standard
- + 1.8 GB program memory on a CF card
- + Workshop-oriented programming with graphics support
- + Rapid data interface for externally generated programs
- + Workpiece and tool measurement cycles in combination with the HEIDENHAIN single-touch system

ecoMill and ecoMill V series

SLIMline® – controls with a modern user interface.

Whatever your preferred control system, ECOLINE provides the latest controls for your business. SLIMline®, optionally with Operate 4.5 on SIEMENS 840D solutionline or with HEIDENHAIN TNC 620, supports DIN, plain text and rapid cycle programming. For operator convenience, the keypads are practical and the display is divided into clear menus. You can simulate the machining process in advance and in 3D with the large, high-resolution 15" TFT display. Naturally, this is quick and happens in real time – you can play it safe without losing any valuable time! To increase your motivation at work even further, we have designed the SLIMline® in attractive scratch-proof oxidised aluminium. The offer is rounded off by the MAPPS IV control system with MITSUBISHI. This is what modern and responsible work places look like!

More safety!

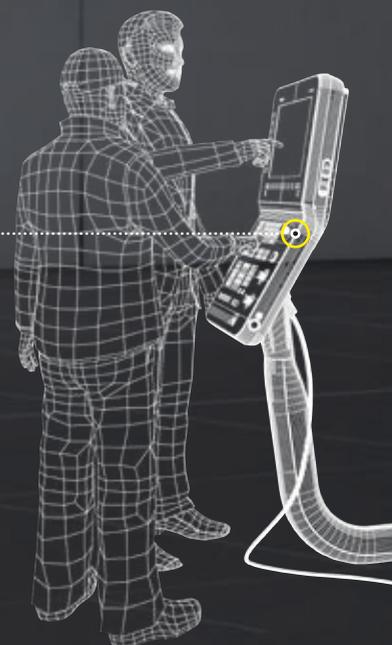
DMG SMARTkey® with transponder. Personal authorisation allows you to grant each operator privileges befitting their skills.

More comfort!

Ergonomic work posture for operators 1.60 m to 1.95 m tall with the flexible SLIMline® Panel.

More service!

DMG MORI Messenger allows you to access detailed machine status information live – wherever and whenever you want. The **DMG Service Agent ECOLINE** informs you about necessary repair work in due time and supports you with the work.



ecoMill and *ecoMill V* series

Options

	<i>ecoMill</i> 50	<i>ecoMill</i> 70	<i>ecoMill</i> 635 V	<i>ecoMill</i> 1035 V
SK 40, CAT 40, BT 40 tool holders	○	○	○	○
Tool magazine with 30 stations	–	–	○	○
Tool magazine with 32 stations	○	●	–	–
Linear encoders (X / Y / Z)	○	○	○	○
TS649 measuring sensor for workpiece measurement	○	○	○	○
TT140 measuring sensor for tool measurement	○	○	○	○
Quad-colour signal lights	○	○	○	○
Wash gun	○	○	○	○
Air flow coolant switch	○	○	○	○
Oil and emulsion mist filter	○	○	○	○
Rotating viewing panel	○	○	○	○
Electronic hand wheel	○	○	○	○
10 freely assignable M functions	○	○	○	○
Bed wash (with the optional chip conveyor)	–	–	○	○
Cabin roof	○	●	○	○
Automatic door	○	○	○	○
DMG Powertools (DMG Service Agent ECOLINE, DMG MORI Messenger)	○	○	○	○
WH 10 workpiece handling	○	○	○	○
Fourth axis	–	–	○	○
ECOLINE measuring sensor kit	○	○	○	○
Production package 1 and 2	○	○	○	○
Chip disposal package	○	○	○	○
Safety package for power failure	○	○	○	○
Tropical package	○	○	○	○

● standard, ○ optional, – not available



WH 10* workpiece handling

- + Turnkey system with maximum storage capacity
- + Complete machining with the optional modular secondary operations
- + 6-axis industrial robot, loading capacity up to 10 kg or 25 kg, working radius up to 1,611 / 2,033 mm
- + 2 or 4-station models with a maximum loading capacity of 300 kg for loading during machining

* not available for the *ecoMill 70*



Fourth axis

- + The optional NC indexing device allows efficient machining in four axes
- + Spindle height: 150 mm
- + Face plate: \varnothing 160–240 mm
- + Three-jaw chuck: \varnothing 160–200 mm
- + Spindle load without / with support: 200 / 400 kg
- + Clamping torque: 800 Nm
- + Spindle speed: 90 rpm
- + Cycle time including clamping: approx. 0.4 sec (90°)



Measuring and precision

The *ecoMill V* series stands out in terms of the positioning accuracy of the axes which can be increased to 8 μ m under the VDI Standard with glass scales. Single-touch tool and workpiece probing facilitate machine set-up and guarantee your process stability.

ECOLINE measuring sensor kit

- + PowerProbe 40 *optical* measuring sensor for workpiece measurement
- + OTS optical tool setter for tool measurement
- + OMI-2T receiver for both sensors



12 or 20-bar internal coolant supply in the production package

Internal coolant supply for improved tool service life and more productivity.

In the modern production of complex components made of high-quality materials, the internal coolant supply through cooling channels in the spindle and tools is of particular importance. The rapidly increasing cutting speeds and ever-shrinking diameter of deep bores necessitate rapid heat dissipation and safe chip removal.

Production packages for the *ecoMill V* series

Production package 1

- + 12-bar internal coolant supply pump
- + Bed wash
- + Scraper-type chip conveyor with larger 360-litre coolant tank
- + Air flow coolant switch
- + Wash gun
- + Enclosed machine cabin (folding roof)
- + Quad-colour signal lights

Production package 2

- + 20-bar internal coolant supply pump
- + Bed wash
- + Scraper-type chip conveyor with separate 600-litre coolant tank
- + Air flow coolant switch
- + Wash gun
- + Enclosed machine cabin (folding roof)
- + Quad-colour signal lights
- + Paper belt filter
- + Visiport – spin window

Production packages for the *ecoMill* series

Production package 1

- + 12-bar internal coolant supply pump
- + Scraper-type chip conveyor with larger 360-litre coolant tank
- + Air flow coolant switch
- + Wash gun
- + Enclosed machine cabin (folding roof)*
- + Quad-colour signal lights

Production package 2

- + 20-bar internal coolant supply pump
- + Scraper-type chip conveyor with separate 600-litre coolant tank
- + Air flow coolant switch
- + Wash gun
- + Enclosed machine cabin (folding roof)*
- + Quad-colour signal lights
- + Paper belt filter
- + Visiport – spin window

* with the *ecoMill 70* as standard

Optional packages

Chip disposal package

- + Scraper-type chip conveyor
- + Wash gun
- + Quad-colour signal lights

Safety package for power failure

- + Overvoltage protector
- + Low voltage monitor

Tropical package

- + Active coolant unit for the control cabinet
- + Additional ventilation in the control console
- + Hydraulic fluid temperature sensor*

* on the *ecoMill 50 / ecoMill 70*

**NEW
FEATURE**

ecoMill and ecoMill V series

It's this easy to boost your productivity.

The machines in the *ecoMill* and *ecoMill V* series are equipped as standard with a 12,000 rpm spindle*. The stable spindle features precision bearings and is permanently lubricated. The balanced construction, special bearings and stable design guarantee high continuous speeds. The machine control system carries out constant monitoring and regulation.

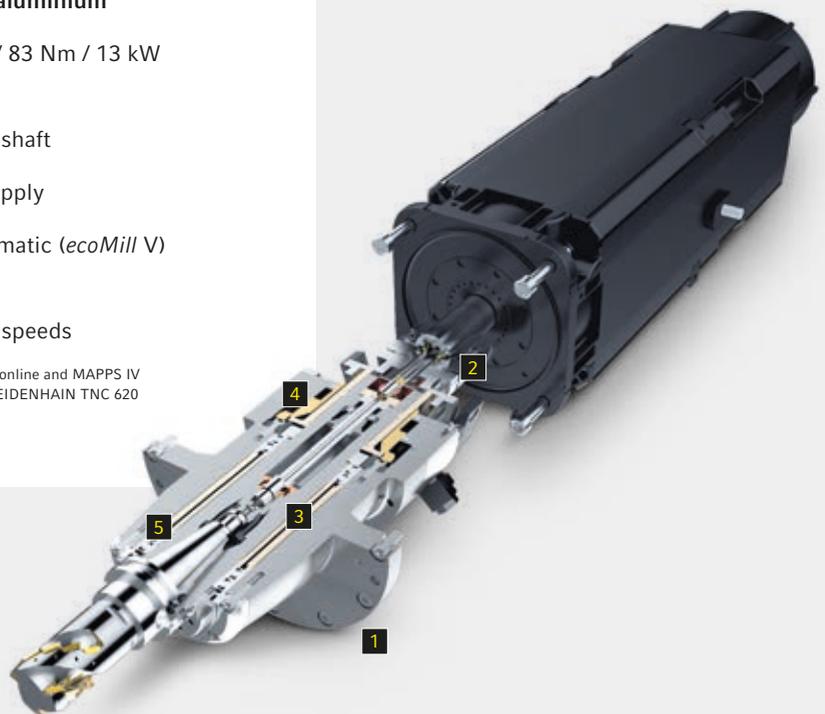
Temperature compensation: an electronic temperature sensor (including evaluation unit) detects and compensates for geometric changes caused by heating of the milling spindle. The machine control system carries out constant monitoring and regulation. The solid and ingenious construction of the machine elements minimises heat build-up and ensures good levels of heat dissipation.

Inline spindle*

Optimal for working with aluminium

- 1 Inline spindle (12,000 rpm / 83 Nm / 13 kW and 40 % ED)
- 2 Coupled motor with hollow shaft
- 3 Optional internal coolant supply
- 4 Hydraulic (*ecoMill*) or pneumatic (*ecoMill V*) tool clamping
- 5 Ceramic bearing for higher speeds

* inline spindle with SIEMENS 840D solutionline and MAPPS IV with MITSUBISHI, motor spindle with HEIDENHAIN TNC 620



ecoMill and ecoMill V series

Top quality for the highest requirements.

When it comes to ECOLINE, the motto “high quality at attractive prices” applies not only to the machine tools but also to the range of accessories. Many options and services enhance the daily production experience for the user and increase productivity. The high quality of ECOLINE machines can only be guaranteed through optimum quality standards in production. A special criterion in the production of ECOLINE machines is the assembly line concept featuring screen-guided workstations.



Machine quality

- + Refined, tried and tested design
- + Selected components from notable, certified suppliers in the supply chain
- + 48-hour endurance tests
- + Laser measurement / axis positioning as part of standard tests
- + Our machines meet CE standards
- + NAS part on every machine

Production quality

- + Optimised processes thanks to the assembly line concept and its high degree of standardisation
- + Screen-guided workstations ensure a high level of quality and also support the final assembly inspections
- + Efficient value-added chain and material handling
- + Best possible innovation thanks to an internal suggestions box improvements system plus bonus system
- + Quality assurance system with an internal test area
- + ISO certification of the factories



ecoMill and ecoMill V series

The ECOLINE Service – your guarantee for a long machine service life!



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Be it immediate support over the DMG MORI 24/7 service hotline, an efficient initial diagnosis by DMG Netservice, the rapid on-site deployment of our highly trained service technicians or the express delivery of original spare parts – with ECOLINE you benefit from the full expertise of a global machine tools group.

Highlights

- + Free 24/7 service hotline: our experts can solve your problems over the phone in 60% of all cases!
- + On site around the world with 145 sales and service locations
- + Online troubleshooting with the DMG Netservice
- + Preventative maintenance and inspections by our experts
- + Original replacement parts straight from the manufacturer for the highest production safety
- + Seven spare parts centres on three continents for over 95% spare parts availability
- + Exclusive training know-how: over 200 highly qualified training experts to train machine operators and service technicians

Old for new – unbeatable buy-back offers

We'll make you an offer for your used machine you can't refuse – take us at our word!

Why are you not investing your newly obtained capital straight into a more powerful DMG MORI ECOLINE machine? Your old machine can serve as a down payment when you purchase a new ECOLINE machine. Contact us now at www.dmgmori.com!

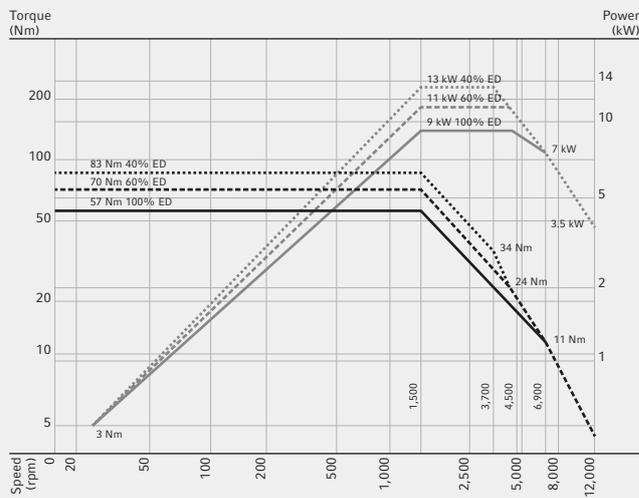
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ecoMill and ecoMill V series

Power torque graph

Power torque graph

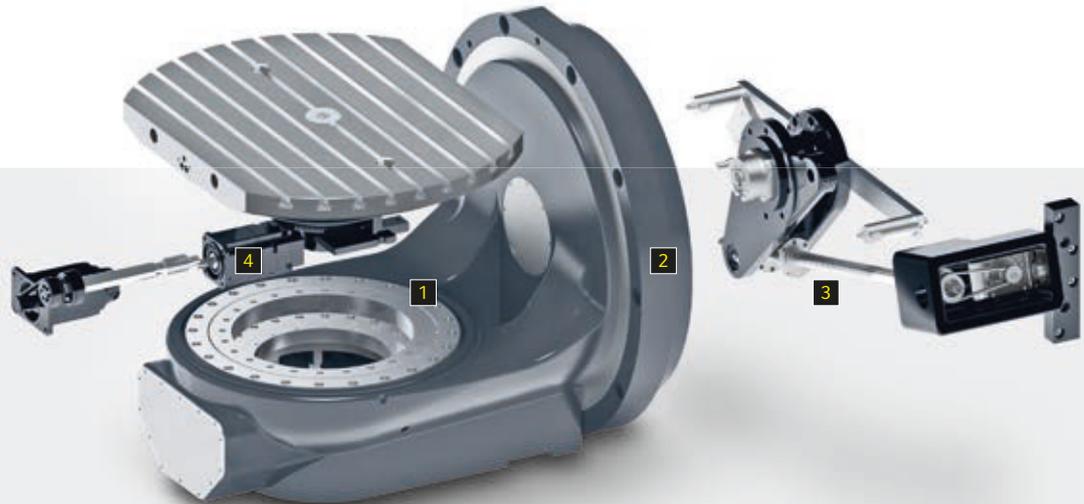
Inline spindle / motor spindle 12,000 rpm



Patented NC swivelling rotary table*

- 1** Drive in C axis (worm gear)
- 2** Precision roller bearing in B / C axes
- 3** Drive in B axis (ball screw)
- 4** Linear encoders in B / C axes

* on the *ecoMill 50 / ecoMill 70*



Technical data

		ecoMill 50	ecoMill 70	ecoMill 635 V	ecoMill 1035 V
Working area					
Traverse (X / Y / Z)	mm	500 / 450 / 400	750 / 600 / 520	635 / 510 / 460	1,035 / 560 / 510
Spindle**					
Maximum speed range	rpm	12,000	12,000	12,000	12,000
Power (40 / 100 % ED)	kW	13 / 9	13 / 9	13 / 9	13 / 9
Torque (40 / 100 % ED)	Nm	83 / 57	83 / 57	83 / 57	83 / 57
Rapid traverse (X / Y / Z)	m/min	24	24	30	30
Maximum feed force	kN	4.5	6	5	5
Cutting speed	m/min	24	24	24	24
Positioning accuracy					
To ISO 230-2 (indirect / direct distance measurement system)	mm	0.016 / 0.006	0.016 / 0.006	0.016 / 0.006	0.016 / 0.006
To ISO 230-2 for B and C axes (direct distance measurement system)	arcseconds	16	16	–	–
P _{max} according to JIS B6330-1980 (indirect / direct distance measurement system)	mm	0.008 / 0.004	0.008 / 0.004	0.008 / 0.004	0.008 / 0.004
B / C axis					
B axis swivel range	degrees	–5 / +110	–10 / +95	–	–
Clamp		hydraulic	hydraulic	–	–
Rapid traverse	degrees/min	2,160	2,160	–	–
Tool magazine / changer					
Number of tools		16 / 32*	32	20 / 30*	20 / 30*
Maximum tool weight	kg	6	6	6	6
Maximum tool length	mm	300	300	300	300
Maximum tool diameter	mm	ø 80	ø 80	ø 80	ø 80
Maximum tool diameter for vacant adjacent stations	mm	ø 130	ø 130	ø 130	ø 130
Chip-to-chip time	sec.	–	–	5	5
16-station tool magazine: average chip-to-chip time for station 1–2 / station 1–9	sec.	12 / 15	–	–	–
30-station or 32-station tool magazine: average chip-to-chip time	sec.	5	5	–	–
Table configuration					
Workpiece mounting surface with T-slots	mm	ø 630 × 500	ø 800 × 620	790 × 560	1,200 × 560
Loading height (upper table edge)	mm	790	840	720	720
Table load (total weight)	kg	200	350	600	1,000
Connected values					
I _n max. at 100 % ED	A	28	54	28	28
Power consumption at 100 % ED	kVA	17	35	17	17
Maximum pre-fusing	A	35	63	35	35
Controls					
SLIMline® with Operate 4.5 on SIEMENS 840D solutionline		•	•	•	•
SLIMline® with HEIDENHAIN TNC 620		◦	◦	◦	◦
SLIMline® with MAPPS IV and MITSUBISHI		–	–	◦	◦

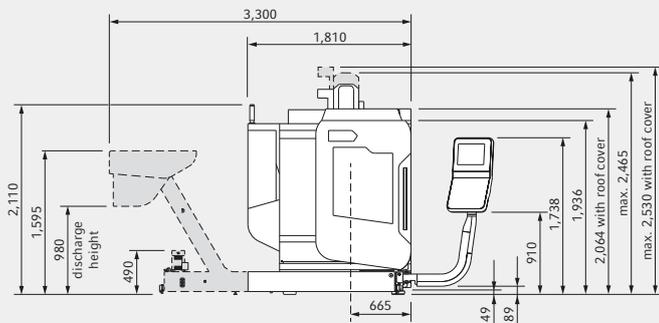
• standard, ◦ / * optional, – not available, ** inline spindle with SIEMENS 840D solutionline and MAPPS IV with MITSUBISHI, motor spindle with HEIDENHAIN TNC 620

ecoMill and ecoMill V series

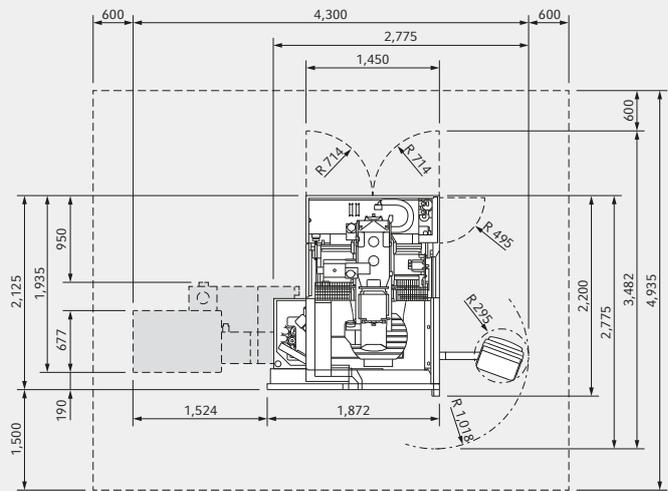
Floor plans and working areas

ecoMill 50 with chip conveyor with 16-station tool magazine

Front view

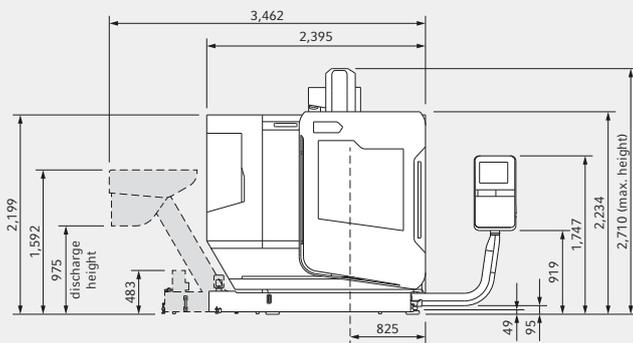


Plan view

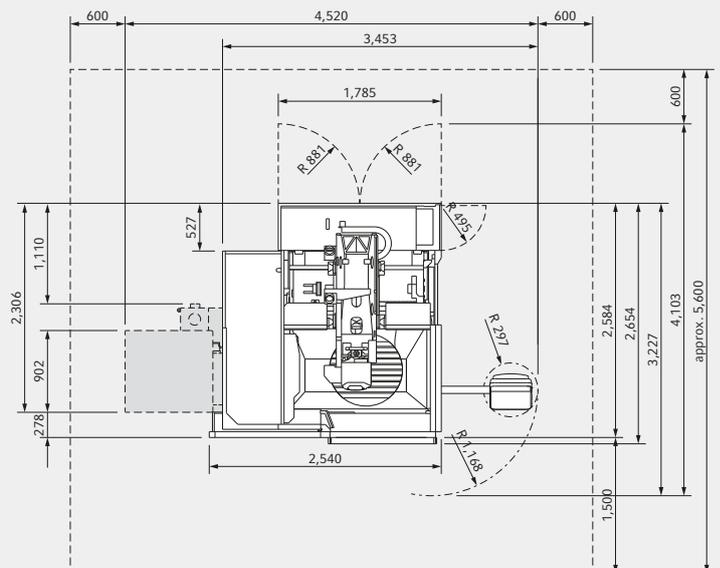


ecoMill 70 with chip conveyor with 32-station tool magazine

Front view



Plan view



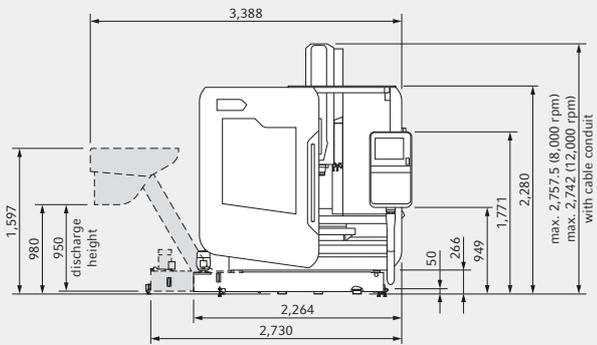
Space requirements

With coolant tank	mm
With chip conveyor	mm
With internal coolant supply – 12 bar	mm
Machine weight	kg

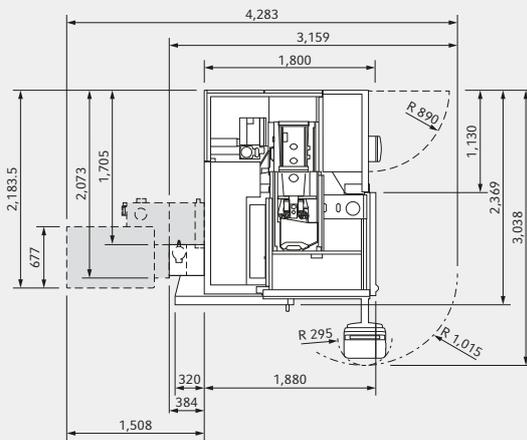
	<i>ecoMill 50</i> with 16 tools	<i>ecoMill 50</i> with 32 tools	<i>ecoMill 70</i> with 32 tools
	3,975 × 4,935	4,255 × 4,935	4,700 × 5,600
	5,500 × 4,935	5,500 × 4,935	5,800 × 5,600
	5,830 × 4,935	6,115 × 4,935	6,150 × 5,600
	4,100	4,700	7,800

ecoMill 635 V with chip conveyor

Front view

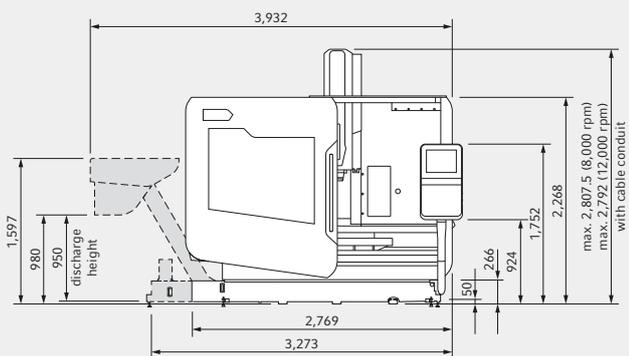


Plan view

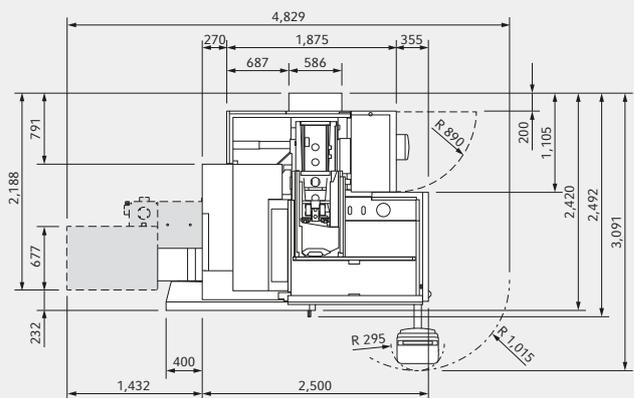


ecoMill 1035 V with chip conveyor

Front view



Plan view



Space requirements

With coolant tank	mm
With chip conveyor	mm
With internal coolant supply – 12 bar	mm
Machine weight	kg

	ecoMill 635 V with 20 / 30 tools	ecoMill 1035 V with 20 / 30 tools
With coolant tank	4,400 × 4,500	5,000 × 4,550
With chip conveyor	5,500 × 4,500	6,050 × 4,550
With internal coolant supply – 12 bar	5,800 × 4,500	6,300 × 4,550
Machine weight	3,850	4,500

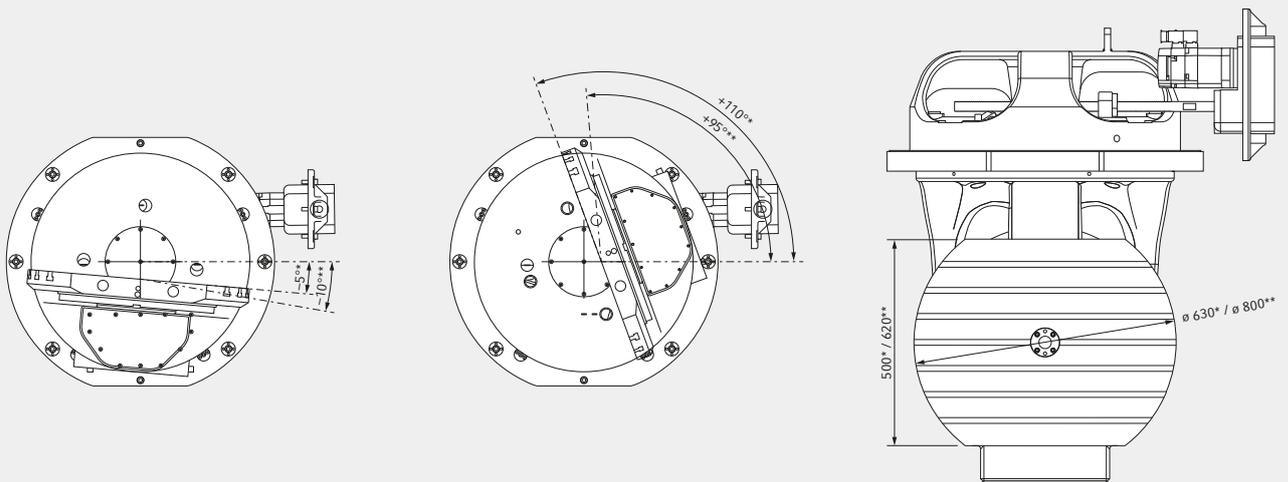
ecoMill and *ecoMill V* series

Working area and dimensions

Working area and dimensions *ecoMill 50* / *ecoMill 70*

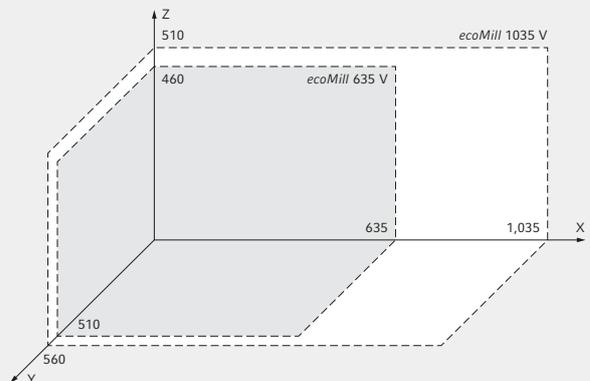
With maximum traverses of 500 × 450 × 400 mm* and 750 × 600 × 520 mm**, a table swivel range of -5° / +110°* and -10° / +95°** and optimal working area accessibility, the *ecoMill* is the best machine for more complex workpieces.

* *ecoMill 50*, ** *ecoMill 70*



Working area and dimensions *ecoMill 635 V* / *ecoMill 1035 V*

With maximum traverses of 1,035 × 560 × 510 mm and optimal accessibility to the working area, the *ecoMill V* is the best machine for larger workpieces.



Cutting data

		<i>ecoMill</i>	<i>ecoMill V</i>
Face mill			
Tool diameter	mm		ø 63
Spindle speed	rpm		1,360
Feed	mm/min		1,300
Cutting depth	mm		3
Cutting width	mm		47
Material removal rate	cm ³ /min		184
Material			C45
End mill			
Tool diameter	mm		ø 12
Spindle speed	rpm		2,400
Feed	mm/min		430
Cutting depth	mm		24
Cutting width	mm		12
Material removal rate	cm ³ /min		124
Material			C45
Solid drill			
Tool diameter	mm		ø 40
Spindle speed	rpm		1,275
Feed	mm/min		160
Material removal rate	cm ³ /min		192
Material			C45
Tap			
Tool diameter	mm		M20 × 2.5
Spindle speed	rpm		240
Feed	mm/min		600
Material			C45

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