

Overview



It is the result that counts

Hermle machines are often at the forefront when it comes to optimized results.

The proverbial Hermle precision in combination with process consulting and project management has made us the most important machine partner in nearly all key sectors – ranging from large-sized complex components to microcomponents in the high-tech field. Versatile use, uncompromising results – simply Hermle.

A class...

SECTOR SOLUTIONS FROM HERMLE

...of its own





C 20

THE COMPACT VERSION

Performance, precision and universality all in one? No question, the C series can do it. It includes one of our most versatile machines: the C 20. Constructed in modified gantry design, it provides the required workpiece-dependent dynamics by virtue of three axes in the tool and simplifies the automatic tool change by the pick-up method.



Technical data:

Traverse	
X-Y-Z:	600-450-450 mm
Speed:	10,000 / 18,000 / 40,000 rpm
Rapid traverse in all axes:	45 m/min
Control:	iTNC 530 / S 840 D
Rigid clamping table:	800 x 465 mm
Max table load:	1,000 kg
NC-swivelling rotary table:	
Clamping surface:	Ø 280 mm
Swivelling range:	+/- 115°
Max table load:	300 kg

THE FLEXIBLE VERSION

Flexibility that leaves
no need unanswered.
Whether the need is for
a 3-axis or 5-axis machine,
shopfloor programmed in
jobbing production or
fully automated
in a turnkey project,
the C 22 has the solution.
And it also offers flexibility
in table variants and
installation options.

Technical data:

Traverse	
X-Y-Z:	450-600-330 mm
Speed:	15,000 / 18,000 / 30,000 / 42,000 rpm
Linear rapid traverses (dynamic):	30 (50) m/min
Control:	iTNC 530 / S 840 Dsl
Rigid	
clamping table:	600 x 630 mm
Max table load:	750 kg
NC-swivelling rotary table:	
Clamping surface:	Ø 320 mm
Swivelling range:	+/- 135°
Speed of C axis:	80 rpm
Drive:	torque
Speed of A axis:	25/55/80 rpm
Drive:	single left/tandem/torque
Max table load:	100 kg
Clamping surface:	Ø 320 mm
Clamping plate:	Ø 450 x 360 mm
Swivelling range:	+/- 135°
Speed of C axis:	40 rpm
Clamping surface:	Ø 450 x 360 mm
Drive:	worm
Speed of A axis:	25 rpm
Drive:	single left
Max. table load:	250 kg



C30

THE DYNAMIC VERSION

Universal machining centers based on modular design and therefore multi-purpose. These two constructional wonders in modified gantry design set new standards in 5-axis machining ...



Technical data:

Traverse X-Y-Z:	650-600-500 mm
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Speed:	10,000 / 18,000 / 28,000 / 40,000 rpm
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Linear rapid traverses (dynamic):	45 (60) m/min
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Control:	iTNC 530 / S 840 D
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Rigid clamping table:	900 x 650 mm
Max table load:	1,500 kg

NC-swivelling rotary tables:	
Clamping surface:	Ø 280 mm
Swivelling range:	+/- 115°
Speed of A-axis (dynamic):	25 (55) rpm
Speed of C-axis:	40 rpm
Max table load:	300 kg

Clamping surface:	Ø 630 mm
Swivelling range:	+30° / -115°
Speed of A-/C-axes:	25/65 rpm
Max table load:	1,000 kg

THE DYNAMIC VERSION

... three axes in the tool
make it, independently
of the workpiece, as
dynamic as never before.
Specified speed for rapid
traverses and feeds

60 m/min:

This is what we
understand by efficiency
à la C 30 and C 40.

C40

Technical data:

Traverse X-Y-Z: 850-700-500 mm

Speed: 10,000 / 18,000 /
28,000 / 40,000 rpm

Linear rapid traverses (dynamic):
45 (60) m/min

Control: iTNC 530 / S 840 D

Rigid clamping table: 1,070 x 700 mm

Max table load: 2,000 kg

NC-swivelling rotary tables

Clamping surface: 2 x Ø 280 mm

Swivelling range: +/- 115°

Speed of A-/C-axes: 55 / 40 rpm

Max table load: 2 x 300 kg

Clamping surface: Ø 420 mm

Swivelling range: +91° / -139°

Speed of A-/C-axes: 55 / 65 rpm

Max table load: 600 kg

Clamping surface: Ø 800 mm

Swivelling range: +25° / -110°

Speed of A-/C-axes: 25/65 rpm

Max table load: 1,400 kg



C42

THE DYNAMIC VERSION

High-dynamics machining center designed even more consistently for 5-axis/5-side machining. Features galore to ensure high-precision, economical parts production. Wide range of automation solutions extend the application range many times over.



Technical data:

Traverse X-Y-Z:	800-800-550 mm
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Speed:	10000 / 15000 / 18000 / 25000 rpm
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Linear rapid traverses

X-Y-Z:	60 m/min
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Control:	iTNC 530 / S 840 D SL
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Rigid clamping

table:	1,050 x 805 mm
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Max table load:	2,000 kg
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NC-swivelling rotary tables:

Clamping surface:	Ø 420 mm
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Swivelling range:	+/- 130°
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Speed of A-axis:	55 rpm
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Speed of C-axis:	35 rpm
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Max table load:	600 kg
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Clamping surface:	Ø 440 mm
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Swivelling range:	+/- 130°
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Speed of A-axis:	55 rpm
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Speed of C-axis:	65 rpm
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Max table load:	450 kg
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Clamping surface: Ø 800 x 630 mm	
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Swivelling range:	+/- 130°
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Speed of A-axis:	25 rpm
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Speed of C-axis:	65 rpm
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Max table load:	1,400 kg
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THE POWERFUL VERSION

Simultaneous machining
of 2000-kg workpieces in
5 axes.

Achieving the required pre-
cision is a challenge for the
machine dynamics.

The Machining Center
C 50 dynamic with two
NC swivelling rotary table
versions.

Technical data:

Traverse	
X-Y-Z:	1,000-1,100-750 mm
Speed:	9,000 / 12,000 / 18,000 rpm

Linear rapid traverses	
X-Y-Z:	60-60-55 m/min
Control:	iTNC 530 / S 840 D

NC-swivelling rotary tables	
Clamping surface:	Ø 700 mm
Swivelling range:	+100° / -130°
Speed of A-axis:	20 rpm
Speed of C-axis:	30 rpm
Max table load:	2,000 kg

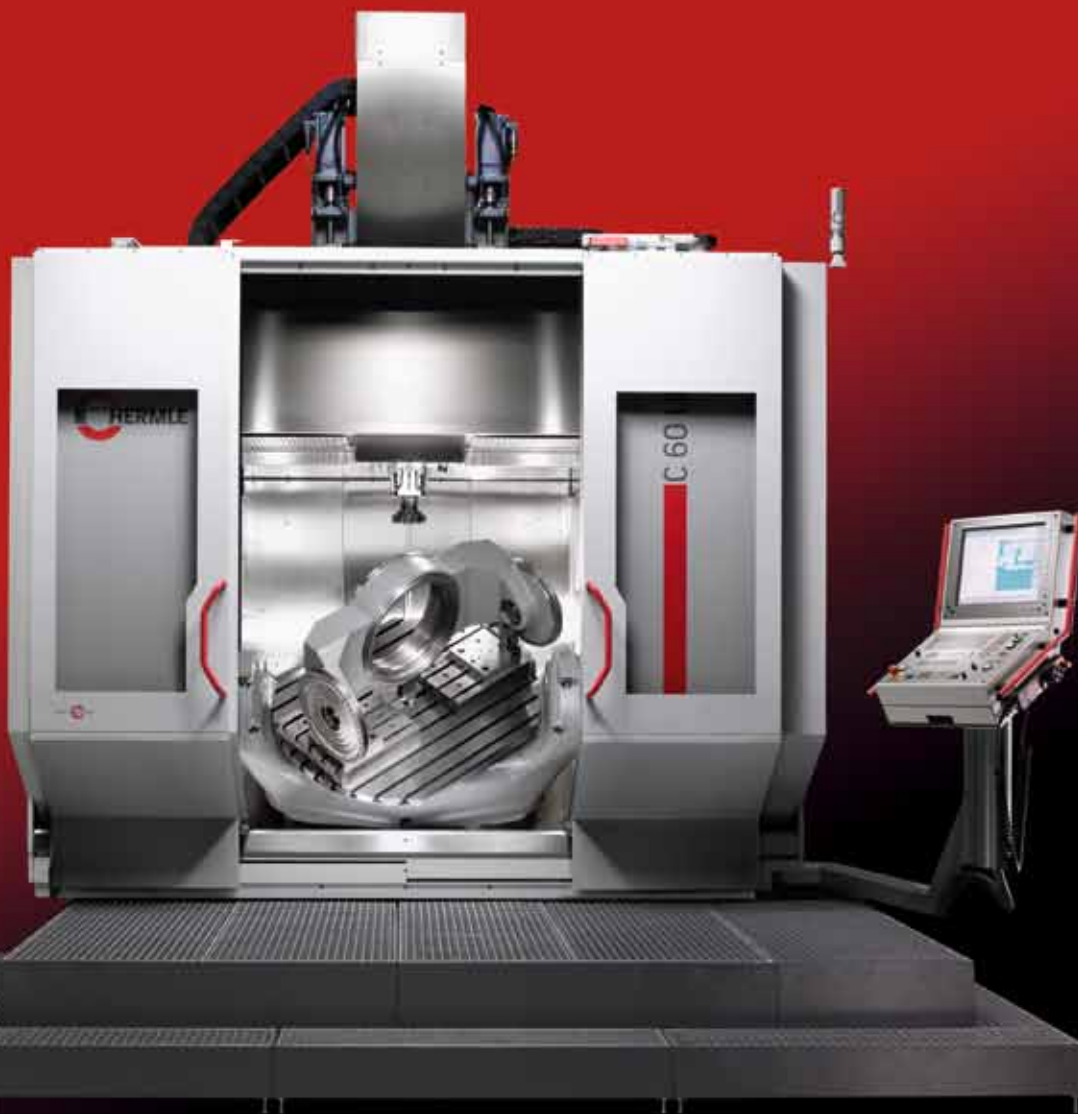
Clamping surface:	Ø 1,150 mm
flattened to:	900 mm
Swivelling range:	+100° / -130°
Speed of A-axis:	20 rpm
Speed of C-axis:	30 rpm
Max table load:	2,000 kg



C 60

THE GIGANTIC VERSION

The mega-machining center is capable of 5-axis machining up to 2500 kg with circle monitoring available up to Ø 1400 mm. High-tech spindles with high torque or speed. The C 60 is also installed free of foundation and doesn't require disassembly for transport.



Technical data:

Traverse	
X-Y-Z:	1,200-1,300-900 mm
Speed:	9,000 / 10,000 / 12,000 / 18,000 rpm
Rapid traverse	
in all axes:	50 m/min
Control:	iTNC 530 / S 840 Dsl
NC-swivelling rotary tables:	
Clamping surface:	Ø 900 mm
Swivelling range:	+/- 130°
Speed of A-axis:	15 rpm
Speed of C-axis:	30 rpm
Drive type of C axis:	torque
Max table load:	2,500 kg
Clamping	
surface:	Ø1,350 x 1,100 mm
Swivelling range:	+/- 130°
Speed of A-axis:	15 rpm
Speed of C-axis:	30 rpm
Drive type of C axis:	torque
Max table load:	2,500 kg

THE VERSATILE VERSIONS

Milling and turning in one clamping. The MT series with models C 42 U MT dynamic, C 50 U MT dynamic and C 60 U MT dynamic. Fully integrated rotary table that does not interfere with demanding milling processes and 5 axes simultaneously.

Technical data:

C 42 U MT dynamic

NC-swivelling rotary table:

Clamping surface:	Ø 750 mm
Swivelling range:	+/- 130°
Speed of A-axis:	25 rpm
Speed of C-axis:	800 rpm
Max table load:	700 kg

C 50 U MT dynamic

NC-swivelling rotary table:

Clamping surface:	Ø 1,000 mm
Swivelling range:	+ 100° / - 130°
Speed of A-axis:	20 rpm
Speed of C-axis:	500 rpm
Max table load:	1,000 kg

C 60 U MT dynamic

NC-swivelling rotary table:

Clamping surface:	Ø 1,200 mm
Swivelling range:	+/- 130°
Speed of A-axis:	15 rpm
Speed of C-axis:	400 rpm
Max table load:	1,400 kg



C 1200

THE HEAVYWEIGHT VERSION

Stable and reliable at a traverse of 1.2 meters in the X-axis: These properties alone already make clear why the C 1200 V is a match for even the greatest challenges. Its modified gantry design closed at the rear, two axes in the tool and its short positioning and approach times through high accelerations provide on the whole power and speed in combination with maximum precision.



Technical data:

Traverse	
X-Y-Z:	1,200-900-500 mm
Speed:	10,000 / 16,000 / 24,000 rpm
Rapid traverse	
in all axes:	30 m/min
Control:	iTNC 530
Clamping table:	1,400 x 900 mm
Max table load:	1,800 kg

THE PROVEN

Hermle has set the trend with its proven, very compact design principle in modified gantry design as well as the swivelling rotary table located on both of the side walls.

The B 300 is based on this concept and is located within the C series. It is the precise entry into 3 to 5-axis technology. With typical Hermle accuracy and quality, no shortcuts were taken. The individual options were adapted to the possible area of application.

Technical data:

Traverse	
X-Y-Z:	800-600-500 mm
Speed:	15,000 rpm.
Rapid traverse	
in all axes:	30 m/min
Control:	iTNC 530
Rigid clamping	
table:	1,000 x 560 mm
Max table load:	1,500 kg
5-axis design	
NC-swivelling rotary tables:	
Clamping surface:	Ø 280 mm
Adjacent	
clamping plates:	800 x 370 mm
Swivelling range:	+/- 110 °
Max table load:	250 kg





The direction

It is all about milling and achieving an excellent result.
That's what our efforts are directed at: Our architecture, our structure, our work,
our thoughts, our development, our construction, our assembly, our service, etc.
Everything we achieve, change and optimize makes our results better, more precise,
more readily available – nothing more and nothing less.

Hermle – Milling at its best

WHAT DOES HERMLE STAND FOR?



Around the world, you can find the answer more than 20,000 times by now: for universal milling machines and machining centers that perform their work precisely and reliably. Our almost proverbial Swabian innovative talent and closely knit sales and service network guarantee Hermle virtues on-site in all important countries of the world. What a pity that some expressions become hackneyed, but we can say with complete justification: Wherever precision and quality come from, that's also where Hermle is at home.





Assembly in a team

HERMLE QUALITY IS NO COINCIDENCE

Every one of our machines is assembled completely by an assembly team in which every single person feels personally responsible for the result. This allows us to achieve, in intense group work coupled with cyclic assembly and assembly line production, solutions that emphasize our quality standards towards the customer.





Production is modern logistics

Our production systems controlled by a master computer that include a production line arrangement of pallet stations are highly sophisticated, highly flexible, tuned individually to our products and designed for optimum quality. Depending on demand, they can produce in 3 shifts 7 days a week and – if it should become necessary – also from one day to the next. Your machine is produced and assembled entirely at our plant.





We are wherever we are needed

We from the Hermle team have recognized and heeded years ago that service is more than just a friendly, but ignorant voice in the call center. This is why we have developed our range of services very consistently and continuously. They range from the spare parts supply within a few hours to the quick support by the service repair team. Our training concepts are considered demanding, economical, practice-oriented, and our sales department gives advice wherever urgent help is needed – at our customers'. All of this is topped by our continuous striving for steady optimization – for who has lost the desire to improve has already stopped being successful.





We have
the solutions
others still
think about

AUTOMATION TECHNOLOGY





Everybody talks about automation, but at Hermle it's much more than just a trendy word. We ourselves have developed from a machine to a process provider because we believe that the decisive criterion for automated efficiency is the integration of the entire environment and periphery. And thus, what began with economical pallet change and intelligent handling systems ends with highly advanced robot solutions. Integrating a machine in a flexible manufacturing cell is something we have been capable of for a long time.

One generation ahead

TURN-KEY-PROJECTS

The increasing demand for turn-key solutions has been enough reason to develop our activities further in the area of "Turn-Key Projects". A key role is played not only by complex machining processes with increased automation, handling and equipment requirements but also by sophisticated production strategies including cycle time guarantee, clamping devices, tool packages, programming systems and integration into existing PPS systems. We know tomorrow's questions and we know the answers. Welcome to our "Turn-Key Projects"!





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