

Overview



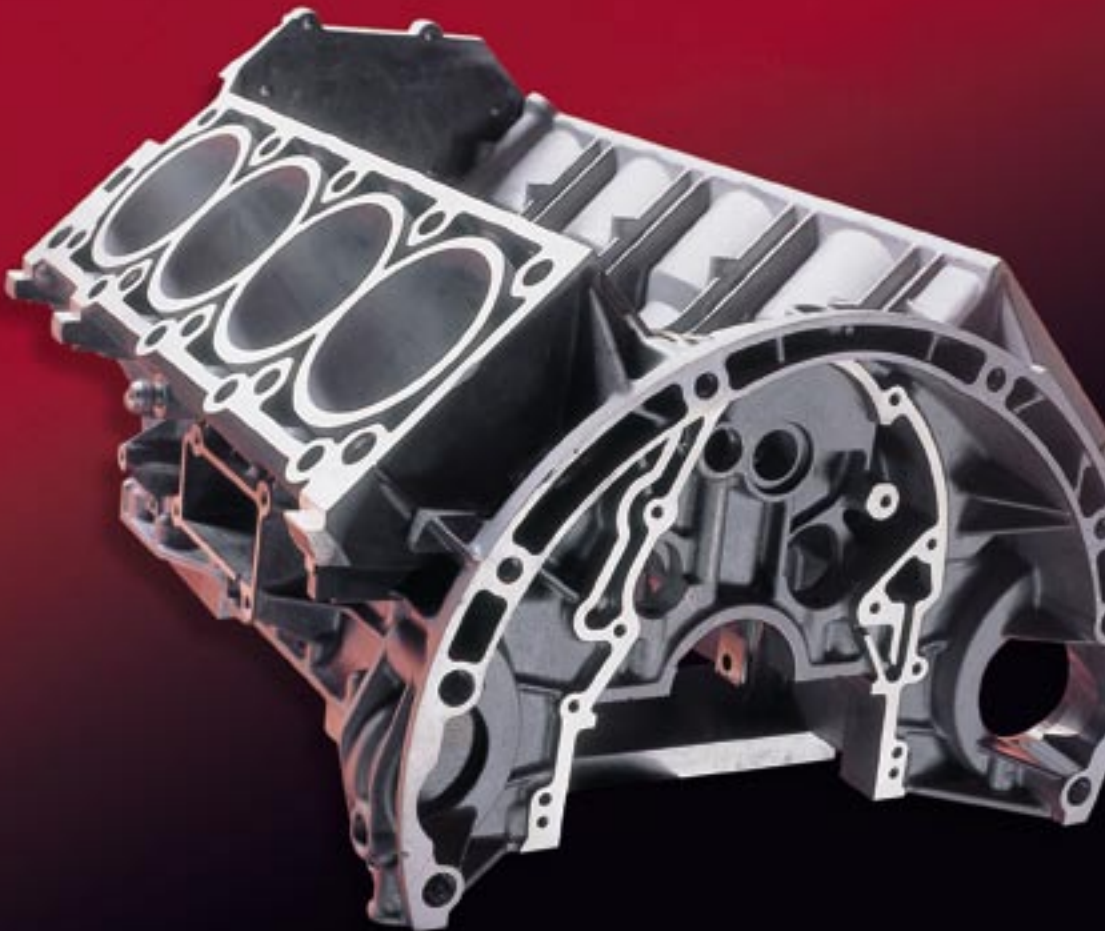
It is the result that counts

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.

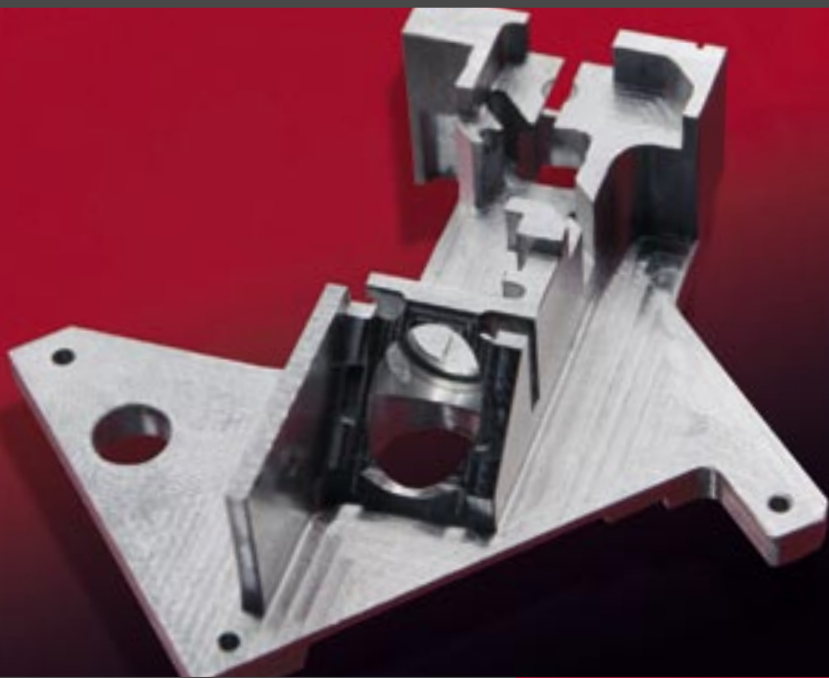
A class...

SECTOR SOLUTIONS FROM HERMLE





...of its own





U740

THE FLEXIBLE VERSION

Universal milling for tool and mould making as well as production of single parts and small series. Its extensive options, high table load and latest control technology make the U 740 a genuine all-rounder. It combines the well-proven Hermle machine concept with the new solid block design.



Technical data:

Traverse	
X-Y-Z:	740/915-500-500 mm
Speed:	12,000 / 18,000 rpm
Main spindle	
· Rigid design	
· Manually swivellable	
(Digital display):	-5° / +95°
· CNC-controlled	
B-axis:	-5° / +95°
Rapid traverse X-Y-Z:	
	30-30-20 m/min
Control:	iTNC 530
Clamping table:	900 x 500 mm
Max table load:	700 kg
NC-rotary table:	Ø 630 mm
Max table load:	500 kg
Tool changer:	16 or 28 pockets

THE UNIVERSAL VERSION

The flagship with the large "U" – for large traverses. Constructed in solid block design with a compact mineral casting bed for high rigidity and precision with minimum space requirement. Installed without a foundation, the U 1130 can be used anywhere without problems and without having to compromise on its high positioning and long-term accuracy.

U 1130

Technical data:

Traverse	
X–Y–Z:	1130/1300-720-630 mm
Speed:	12,000/18,000 rpm
Main spindle	
· Rigid design	
· Manually swivellable	
(Digital display):	-5° / +95°
· CNC-controlled	
B-axis:	-5° / +95°
Rapid traverse X-Y-Z:	
	30-30-20 m/min
Control:	iTNC 530
Clamping table:	1300 x 720 mm
Max table load:	1000 kg
Integrated NC-rotary table	
(in clamping table):	
	Ø 800 / 1300 x 720 mm
Max table load:	700 kg
Tool changer:	16 or 28 pockets



C20



THE VERSATILE 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 / 16,000 / 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:	1000 kg
NC-swivelling rotary table:	Ø 280 mm
Swivelling range:	+/- 115°
Max table load:	300 kg

THE DYNAMIC VERSION

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

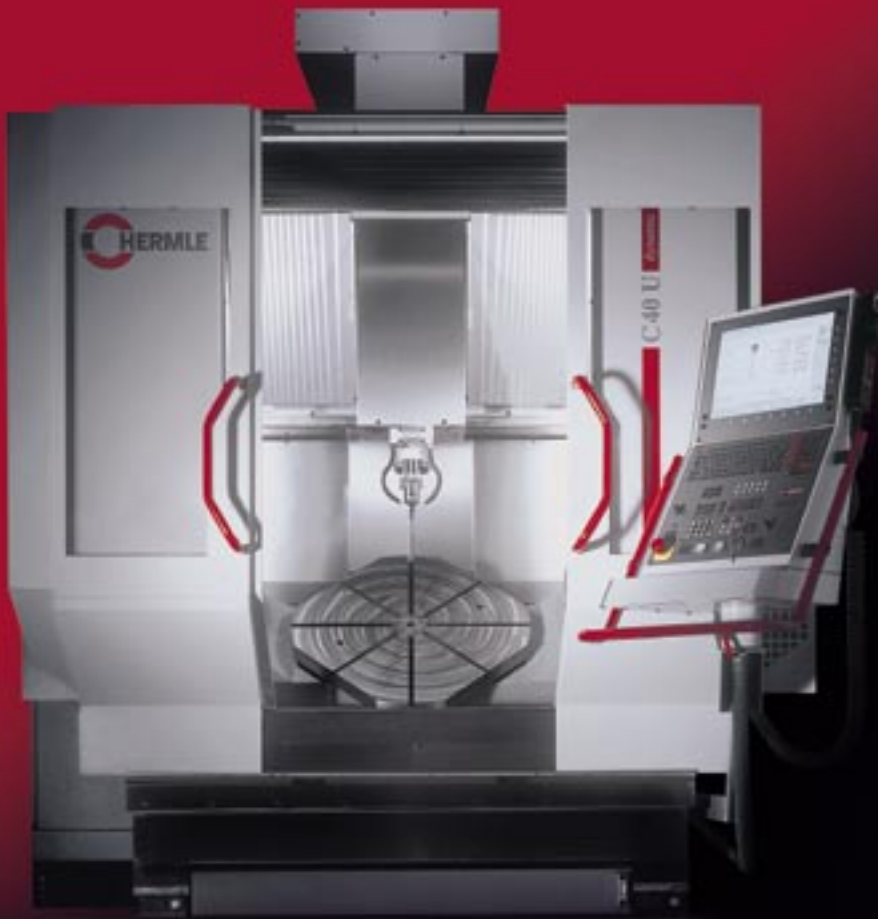
C30



Technical data:

Traverse	
X-Y-Z:	650-600-500 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
Clamping table:	900 x 650 mm
Max table load:	1500 kg
NC-swivelling rotary tables	
clamping area:	Ø 280 mm
Swivelling range:	+/- 115°
Speed A-axis (dynamic):	25 (55) rpm
Speed C-axis:	40 rpm
Max table load:	300 kg
Clamping area:	Ø 630 mm
Swivelling range:	+30° / -115°
Speed A-/C-axes:	25/65 rpm
Max table load:	1000 kg

C40



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.

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:	1070 x 700 mm
Max table load:	2000 kg
NC-swivelling rotary tables	
clamping area:	2 x Ø 280 mm
Swivelling range:	+/- 115°
Speed A-axis (dynamic):	25 (55) rpm
Speed C-axis:	40 rpm
Max table load:	2 x 300 kg
Clamping area:	Ø 420 mm
Swivelling range:	+91° / -139°
Speed A-/C-axes:	55 / 65 rpm
Max table load:	600 kg
Clamping area:	Ø 800 mm
Swivelling range:	+25° / -110°
Speed A-/C-axes:	25/65 rpm
Max table load:	1400 kg

THE POWERFUL VERSION

Simultaneous machining
of 2000-kg workpieces in
5 axes.

Achieving the required
precision is a challenge for
the machine dynamics.

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

C50

Technical data:

Traverse	
X-Y-Z:	1000-1100-700 mm
Speed:	18,000 rpm
Linear rapid traverses	
X-Y-Z	60-60-50 m/min
Control:	iTNC 530 / S 840 D
NC-swivelling rotary tables	
Clamping area:	Ø 700 mm
Swivelling range:	+115° / -30°
Speed A-axis:	20 rpm
Speed C-axis:	30 rpm
Max table load:	2000 kg
Clamping area:	Ø 1150 mm
flattened to:	900 mm
Swivelling range:	+115° / -30°
Speed A-axis:	20 rpm
Speed C-axis:	30 rpm
Max table load:	2000 kg



PW 160



PALLET CHANGER

With its pallet changer systems in two different sizes, Hermle is setting new standards in the set-up in parallel to production of its highly dynamic 3-axis, 4-axis and especially 5-axis machines. Additional storage systems increase the machine runtimes. A zero-point clamping system developed by Hermle provides high process safety.

Technical data:

Pallet changer PW 160
C 20 V and C 20 U
NC-swivelling rotary table: Ø 280
C 30 V and C 30 U
NC-swivelling rotary table: Ø 280
C 40 U
NC-swivelling rotary table: Ø 420
Max. pallet size: 400 x 400 /
Ø 500 mm
Max. transport weight: 160 kg
3 pallets (without storage)
7 pallets with 4-fold storage

PW 800

Technical data:

Pallet changer PW 800

C 30 V and C 30 U

NC-swivelling rotary table: \varnothing 630

C 40 U

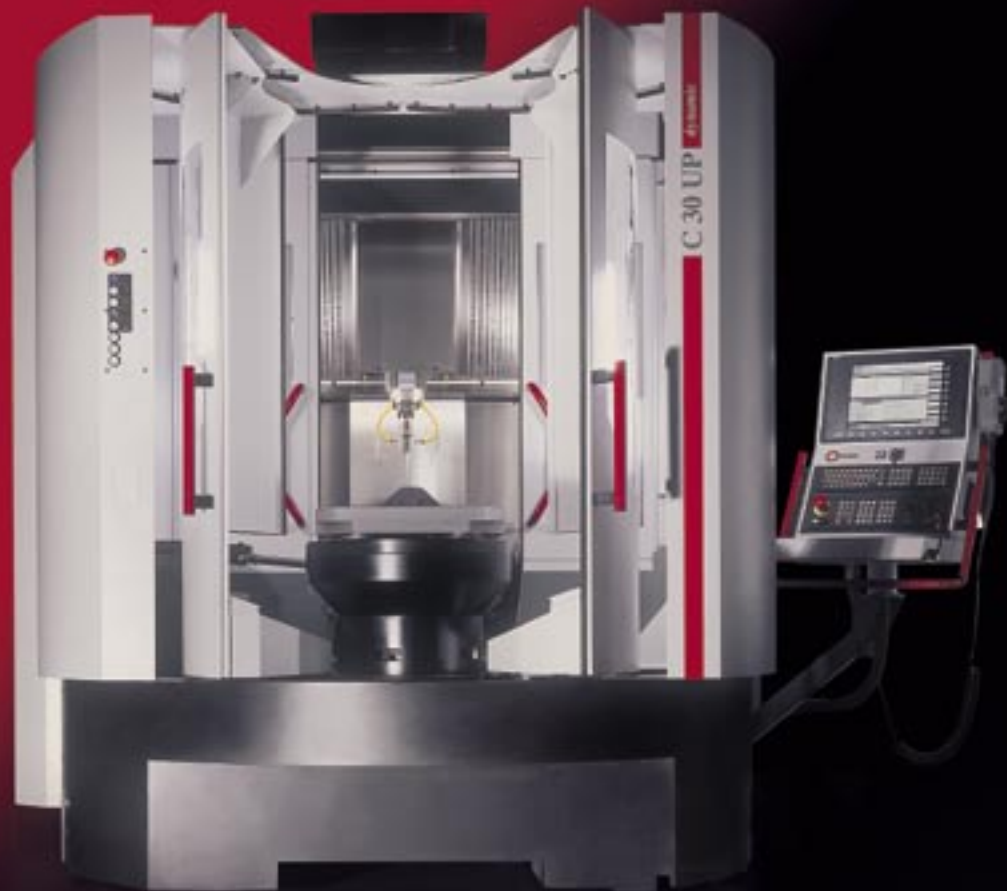
NC-swivelling rotary table: \varnothing 800

Max. pallet size: 630 x 630 /
 \varnothing 800 mm

Max. transport weight: 800 kg

2 pallets (without storage)

17 pallets with storage



C1200

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:	1200-900-500 mm
Speed:	10,000 / 16,000 / 24,000 rpm
Rapid traverse in all axes:	30 m/min
Control:	iTNC 530 / S 840 D
Clamping table:	1400 x 900 mm
Max table load:	1800 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 17,000 times by now: for universal milling machines and machining centres 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 where also Hermle is at home.

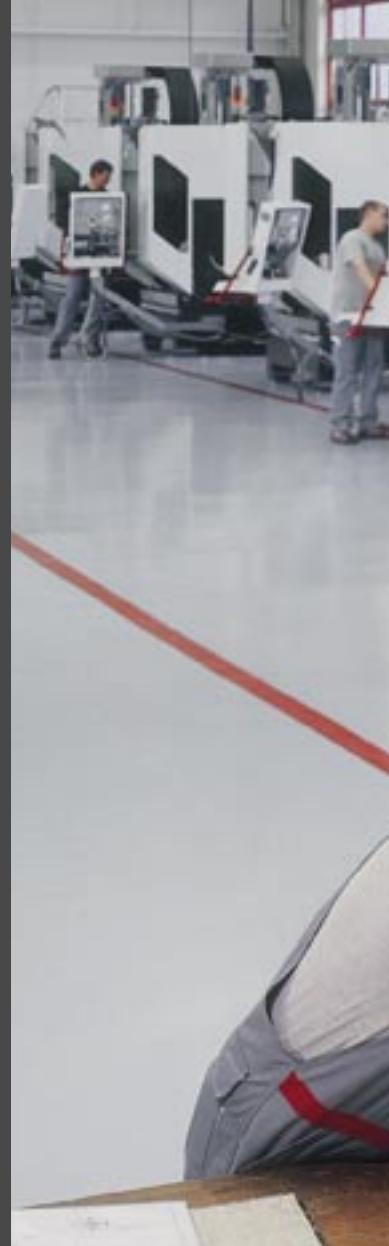




Assembly in a team

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.

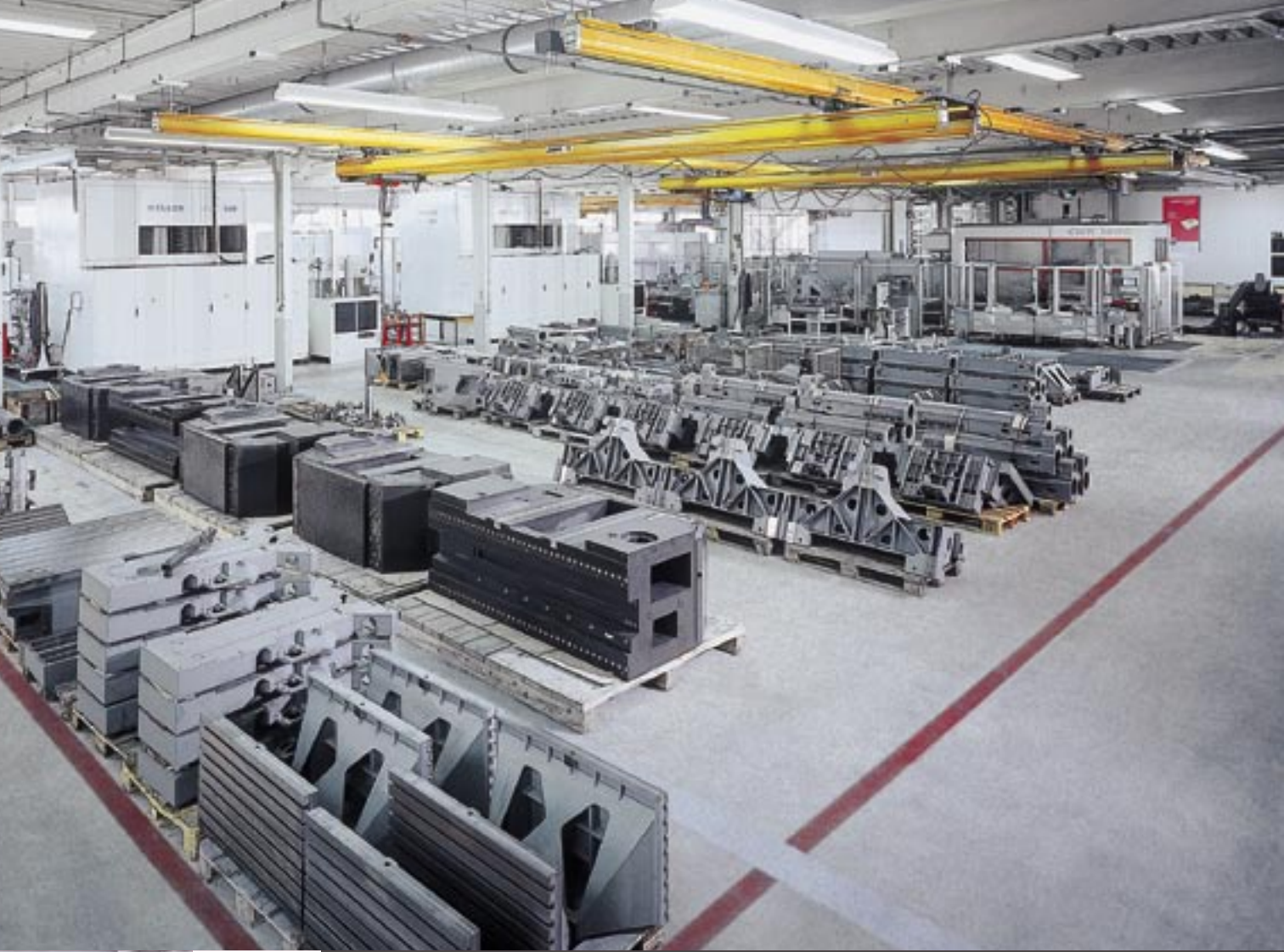




Production is modern logistics

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

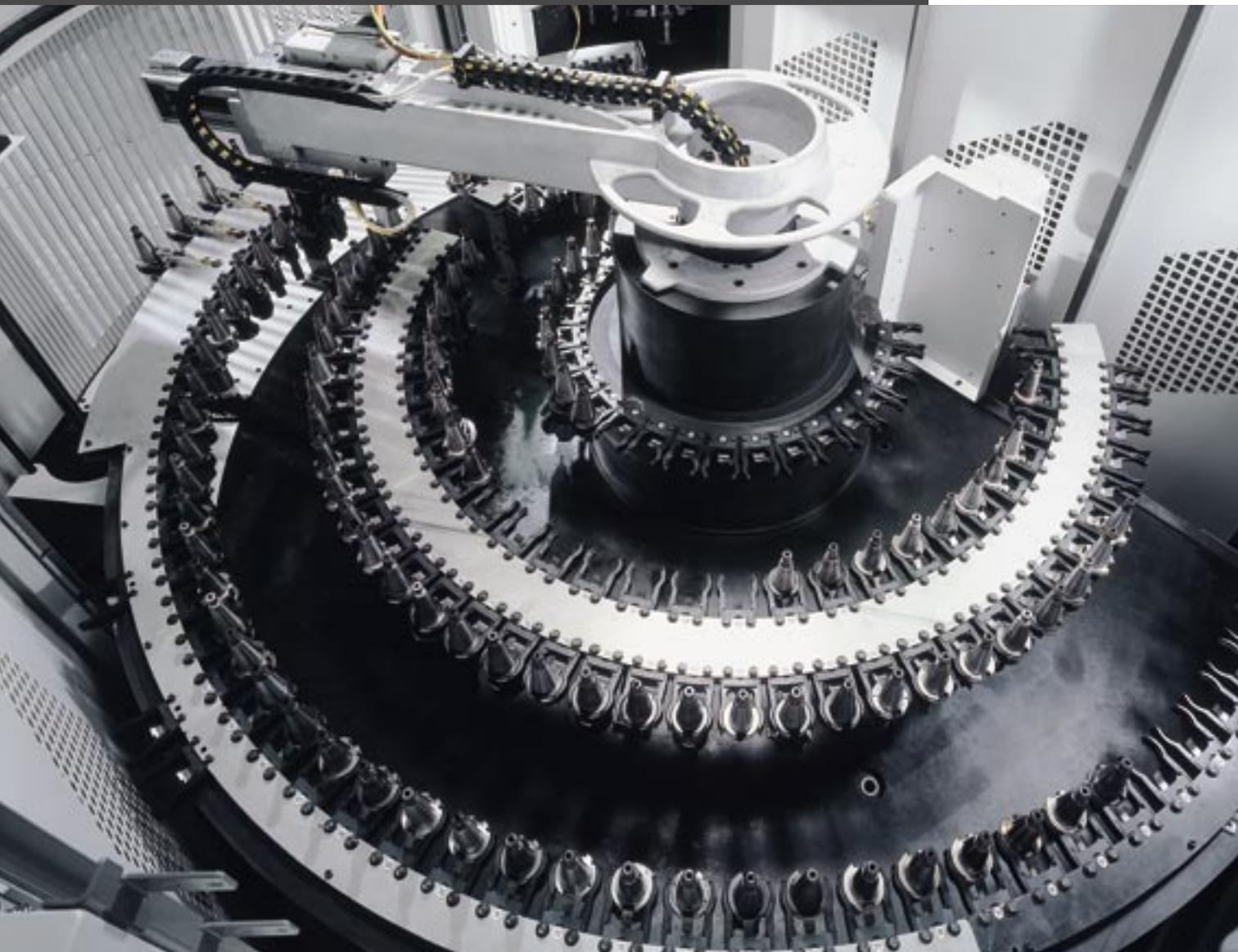
We from the Hermle team have recognized and heeded years ago that service is more than just a friendly, but ignorant voice in the call center. This is why we have developed our range of services very consistently and continuously. They range from the spare parts supply within a few hours to the quick 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.

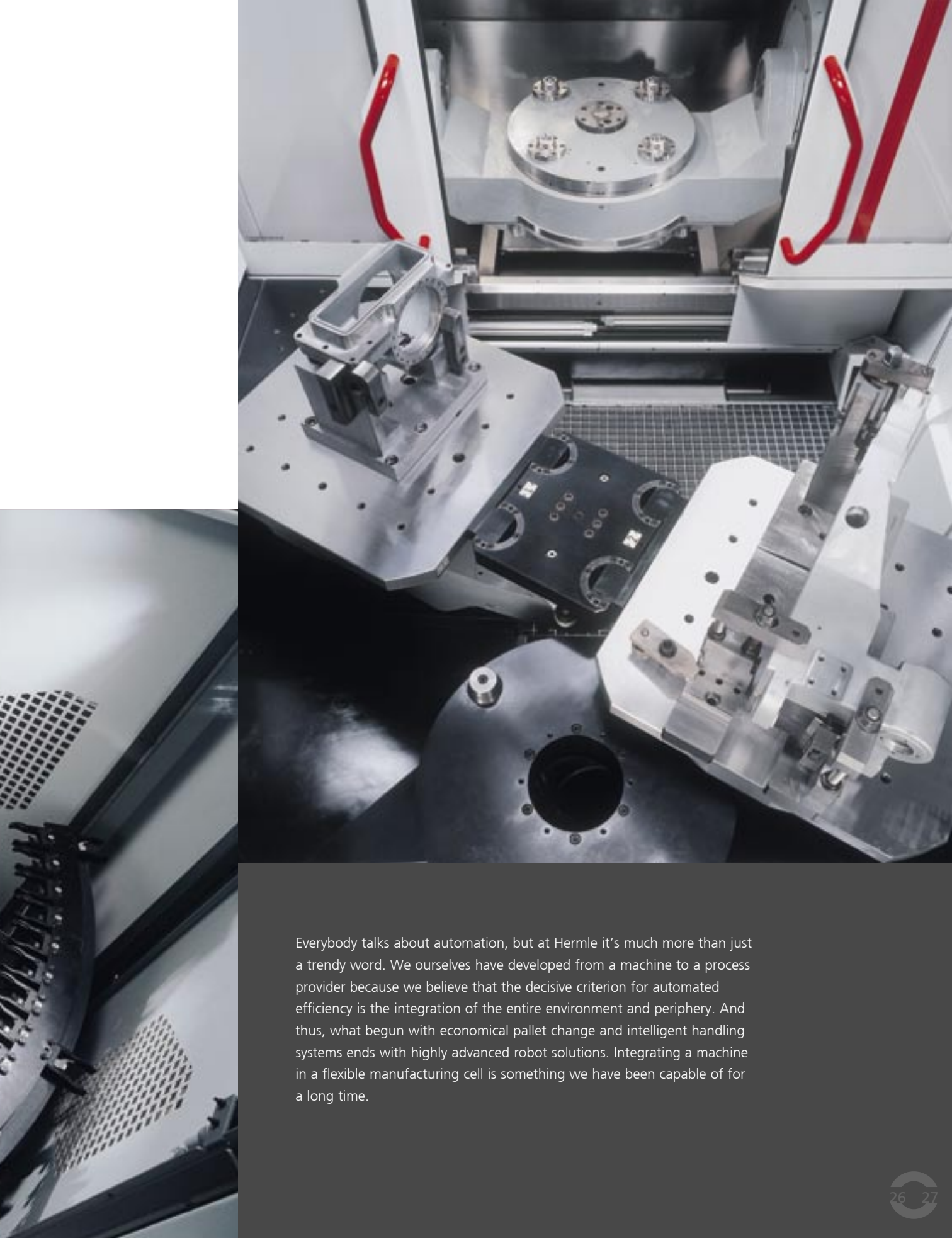




We have
the solutions
others still
think about

AUTOMATION TECHNOLOGY



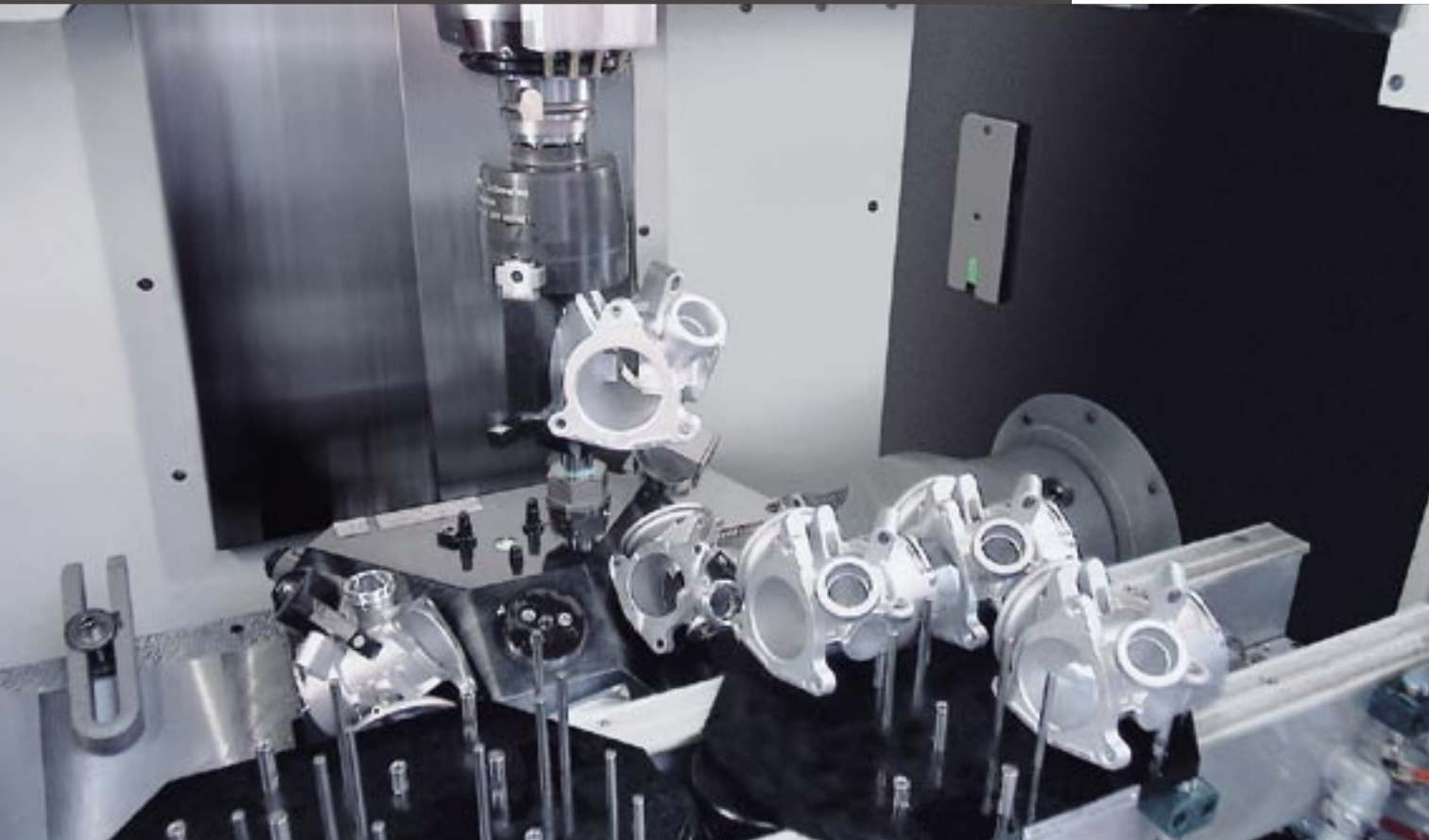


Everybody talks about automation, but at Hermle it's much more than just a trendy word. We ourselves have developed from a machine to a process provider because we believe that the decisive criterion for automated efficiency is the integration of the entire environment and periphery. And thus, what begun 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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