

The EMAG logo consists of the word "EMAG" in a bold, blue, sans-serif font, enclosed within a blue square border. The background of the entire page is a close-up photograph of a precision-machined metal component, likely a part of a machine tool, with a grid of small, light-colored arrows overlaid on it.

EMAG

GB

news

**REINECKER
KARSTENS
KOPP
NAXOS-UNION
SW
KOEPPER
LASER TEC
ECM**

The AMB logo features the letters "AMB" in a bold, blue, sans-serif font. Below the letters is a stylized graphic of a metal part, possibly a gear or a shaft, rendered in a dark blue color.

AMB



Workpiece changeover time: 1 s

VLC 250 P – live at the AMB.

The fastest vertical pick-up turning machine in the world.

Worldwide partner
in innovative
production processes.



180

200

220

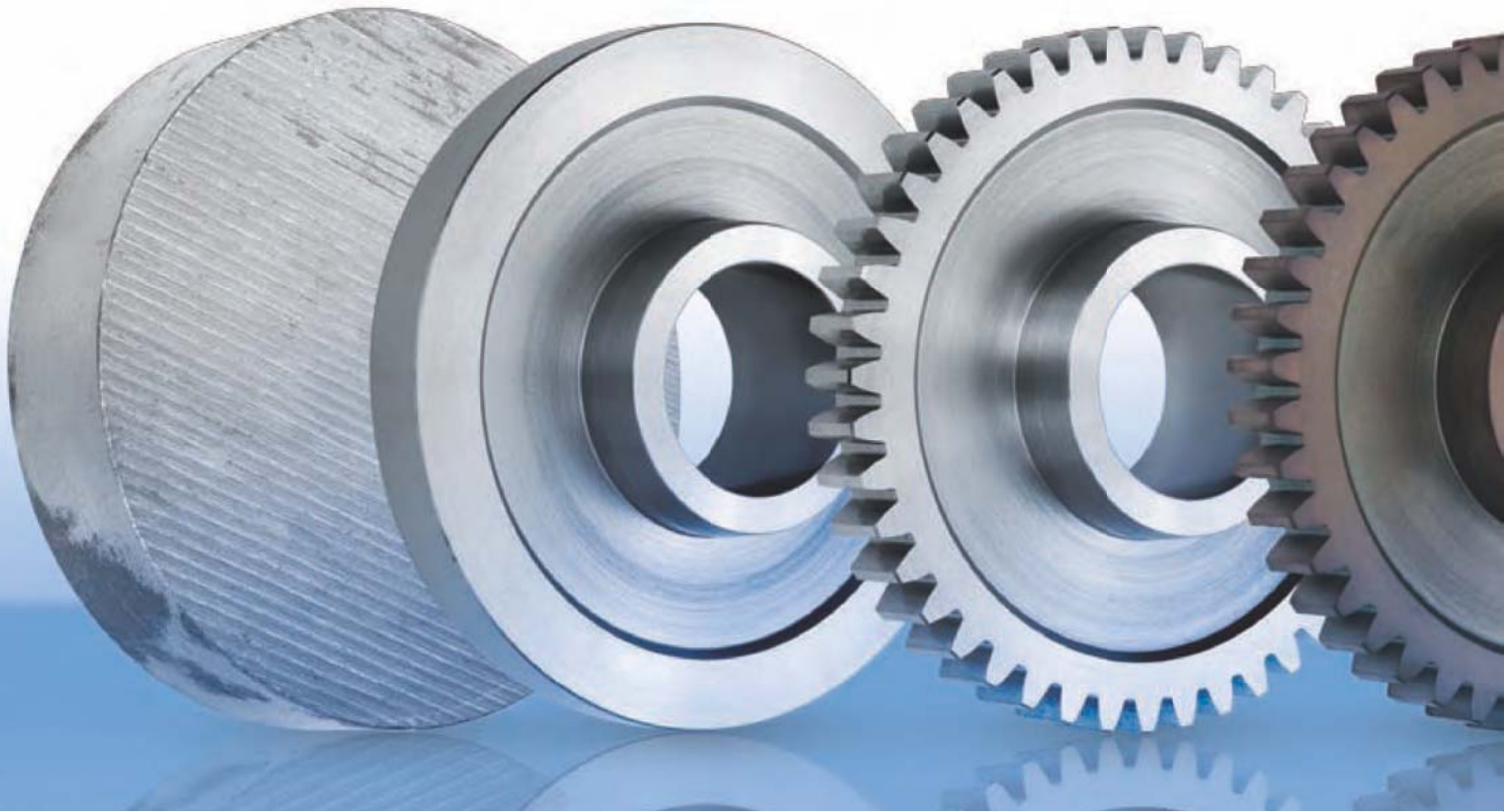
240

260

280

300

AMB Stuttgart
Hall 3 / Stand D 32



A minimum of automation

The VLC production line is designed for the machining of wheel-shaped workpieces with gear profile, and covers the complete process chain for the mass production of gears with a diameter of max. 200 mm and up to module 4.

The advantages over conventional manufacturing solutions

- A compact, space-saving manufacturing concept (up to 15% less floor space required)
- A much reduced automation requirement and easy adaptation of customer-specific automation components
- Efficient workpiece flow with short travels, resulting in reduced idle times
- A modular, universal, consistent manufacturing concept that can at any time be expanded and adapted to suit a change in machining requirements
- A much reduced through-put time and a minimisation of costs, as there is no need for intermediate storage, in-house transport, etc.
- The machines are easy to operate, reset and maintain
- System supplier EMAG: Seven technologies from one source

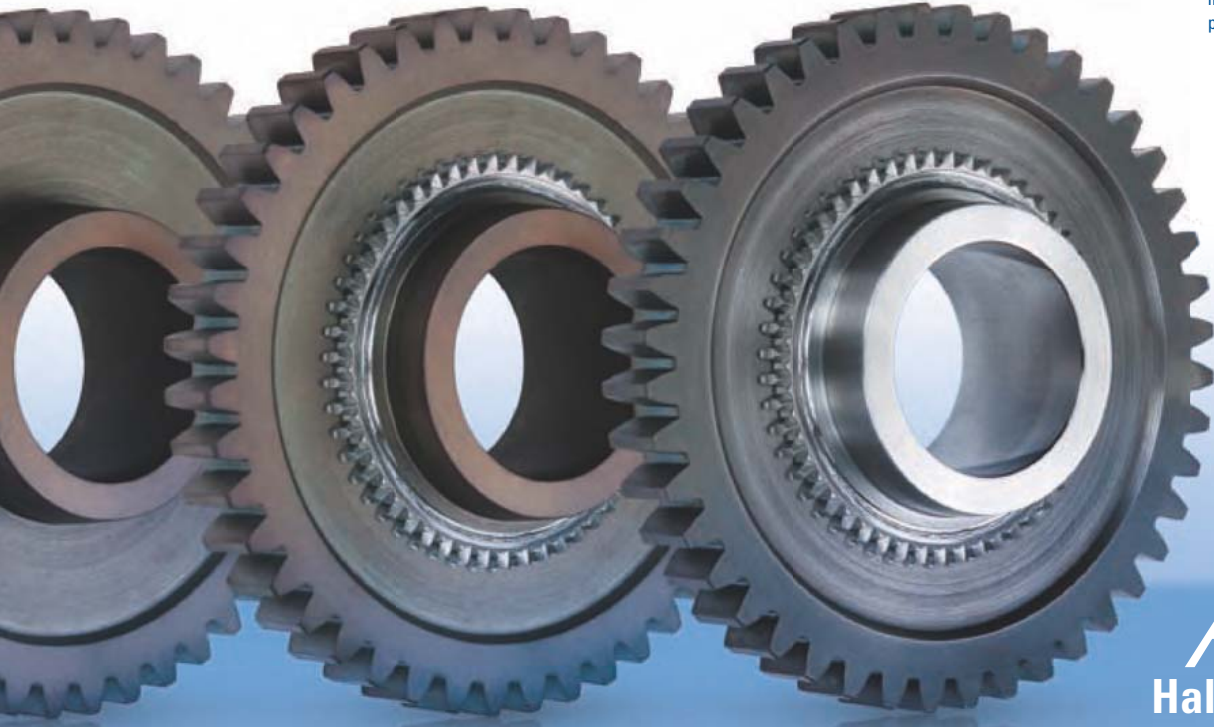
*OP 10 + OP 20
Turning 1st +
2nd side*

*OP 30
Hobbing +
deburring*



See the production line **in acti**

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– maximum performance

*OP 40
Hardening*

*OP 50
Laser welding*

*OP 60
Hard turning + internal and external grinding*



on at the AMB!

Manufacturing systems for

Experience the EMAG Group's innovative manufacturing systems live at the AM

We are looking forward
to your visit.

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production processes.



precise metal components

tive
B!



International Metalworking
Exhibition

28.09.-02.10.2010

STUTTGART EXHIBITION

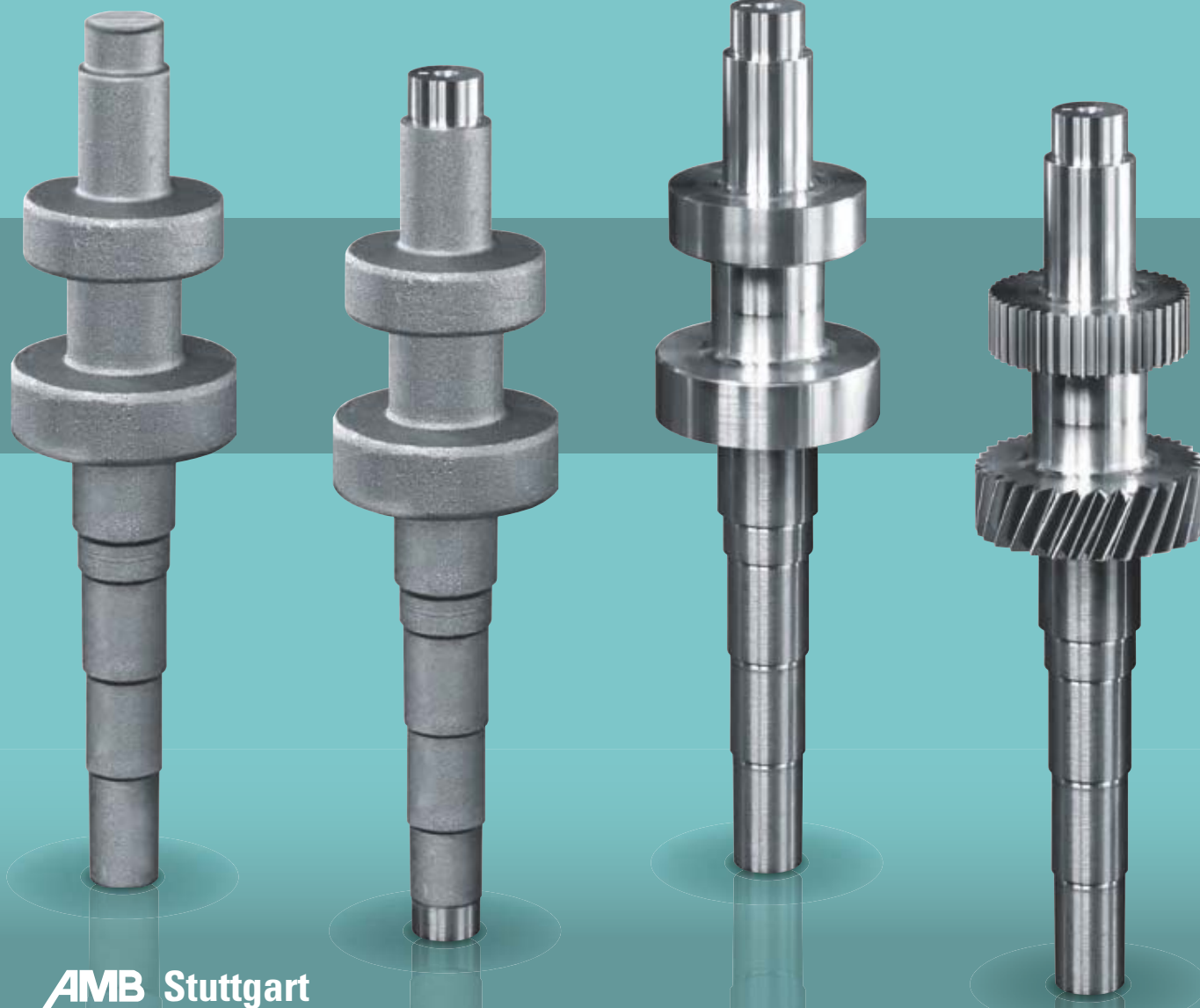


The formula for success:

Productivity + Eff

Compared to conventional manufacturing solutions for shaft-type components the VTC manufacturing system offers:

- A 30% increase in productivity
- Minimal ancillary costs for intermediate storage, in-house transport, etc. – leading to lower stocks and faster throughput times
- A 15% smaller footprint
- Highest precision owing to fewer setups and the elimination of reclamping errors
- Modular, universal, integrated manufacturing concept that can be expanded and adapted to changes in machining requirements any time
- Short travels, resulting in lower idle times
- Easy to operate, reset and maintain
- Easily adapted to customer-specific automation solutions



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Efficiency = VTC



The link-up of a number of VTC machines creates a modular manufacturing system that machines shafts, bevel drive gears, etc. with great efficiency and precision. The really clever thing: the production line is scalable. This guarantees fast production start-ups – even for fluctuating batch sizes – and the integration, at any time, of new machining technologies.

The VTC production line

Workpieces	Shafts
Diameter max.	250 mm
Workpiece lengths max.	1,000 mm
Workpiece weights max.	60 kg



*Cutting to length + centering,
deep-hole drilling, milling,
thread cutting, axial milling,
slot-milling*



*4-axis turning,
milling and drilling operations
with driven tools*



*Hobbing,
radial drilling, deburring,
turning*

BA 342

Holding its premiere at the AMB

- Four-spindle, 4- or 5-axis machining center with twin swivel trunnion ...
- ... the reset-friendly replacement for rotary and transfer machines for small workpieces
- For high-precision, high-productivity 5-axis batch production
- Up to 4 x 30 tool positions for complex machining tasks
- Outstanding machine specification, e.g.:
spindle speeds of up to 40,000 rpm,
SW tool breakage detection in < 0.15 s
...



hspeed 
TECHNOLOGY

QUBE
construction

ADrum[®]
architecture

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– a perfect performance

The machine

BA 342

Capacity

X-axis	mm	150
Y-axis (alternative)	mm	450 (725)
Z-axis / axes	mm	375
Distance between spindles	mm	150

Work spindle

Speed range	rpm	1 – 20,000
Power rating (at 40% duty cycle)	kW / rpm	4 x 18 / 10,500
Torque	Nm	4 x 17

Feed drive

Rapid traverse speed X / Y / Z	m/min	55 / 75 / 75
Axis acceleration X / Y / Z	m/s ²	8 / 8 / 12
Max. feed force X / Y / Z	Nm	8,000



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THE EMAG GROUP – WORLD-WIDE PARTNER
IN FORWARD LOOKING PRODUCTION TECHNIQUES.

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