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VL 3

Common Rail Sys

Demand for diesel engines is on the up, last – but by no means least – owing to their constantly improving emission figures. Thanks to the cutting edge design of today's common rail injection systems the market is seeing engines with greater power and lower fuel consumption; or in other words: engines of increased efficiency. However, its implementation calls for highly precise and at the same time cost-efficient machines to manufacture their demanding constituent components. The answer is to machine large quantities of these precision components on standard machines.

With its VL 3 EMAG offers a vertical pick-up turning machine that combines low capital outlay with the output of high-precision workpieces. For instance, it is possible to carry out all drilling and turning work – the latter with allowance – on cylinders for injection pumps.

tems

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The machine		**VL 3**
Chuck diameter	mm	170
Swing diameter	mm	210
X-axis travel	mm	400
Z-axis travel	mm	200
Main spindle		
Spindle nose to DIN 55 026	Size	5
Spindle bearing, front, dia.	mm	80
Max. speed	rpm	7,500
Main drive		
AC asynchronous motor Power at 40% / 100% duty cycle	kW	24 / 16
Torque at 40% / 100% duty cycle	Nm	158 / 102
Feed drive		
Rapid traverse speed in X	m/min	60
Rapid traverse speed in Z	m/min	30
Feed force in X/Z	kN	5
Disc-type turret		
Tool receptors with cylindrical shank to DIN 69880	Qty	12
Shank dia.	mm	40
Live tools		
Power rating, max.	kW	8.5
Speed, max.	rpm	6,000
Torque, max.	Nm	40
Full power at speed of	rpm	3,000

Capacity
Chuck dia.
Workpiece dia., max.
Workpiece length, max.
X-axis travel
Z-axis travel

VTC 250

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SHAFT BY SHAFT ...

With the VTC 250 L EMAG introduces its first Lean-design vertical shaft machining center. The machine is specially designed to serve as a standalone or as part of a production line based on the chaku-chaku principle. As all VTC machines, the VTC 250 L also incorporates integral automation. That means the machine always does what it does best: PRODUCE – regardless of whether its operator is there or is taking a well deserved break or there is a shift change. The vertical design of the machine also offers a footprint that is up to 50% less than that of a horizontal turning machine.

The advantages of the VTC 250 L:

- Used as standalone or part of a production cell based on the chaku-chaku principle
- Integrated workhandling: The EMAG turret reduces the cost of automation equipment and peripherals
- Raw-part and finished component storage areas form an integral part of the machine
- Tailstock and steadies are CNC-controlled, reducing setting and resetting times
- The vertical design of the machine ensures the unimpeded flow of chips and prevents the build-up of chip clusters
- The compact vertical design makes for a smaller footprint
- Great accessibility and operator friend-liness ensure short setting and resetting times
- Direct-driven machine axes and modern control systems reduce the need for sensors

	VTC 250 L
mm	250
mm	140
mm	1,000
mm	340
mm	740

0 L

Thank you for your excellent cooperation and the interest you have shown in our company. Please accept our very best wishes for the Season and for a happy, successful new year.

Merry Christmas

minimized to the max

VG

The machine

Chuck diameter max.

Machining diameter max.

X-axis travel

Z-axis travel

Spindle nose to DIN 55026

Spindle bearing diameter, front

Spindle capacity, max.

Main spindle speed, max.

Grinding spindle speed, max.

Tooling systems

Speed of rotary dressing roll

110

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The trend to miniaturise components whilst increasing demands on their precision continues unabatedly. It is for this very reason that EMAG has developed its VG series of machines – for the high-speed machining of small workpieces. Experiences in this field, and in particular in the automotive and hydraulics industries, have shown that quality machining increases the quality of the end product quite considerably and with it the market success of the user.

The advantages of the VG 110

- Highest precision
- Optimal accessibility, fast setups
- Small footprint
- Short chip-to-chip times
- Chips fall to the bottom
- Complete-machining in a single setup
- Optional turning tool
- Easy to operate

		VG 110
	mm	190
	mm	100
	mm	460
	mm	225
	Size	5
	mm	80
	mm	40
	rpm	6,000
	rpm	30,000–90,000
	Qty	1 or 2
(Ø 80–90 mm)	rpm	3,000–16,000

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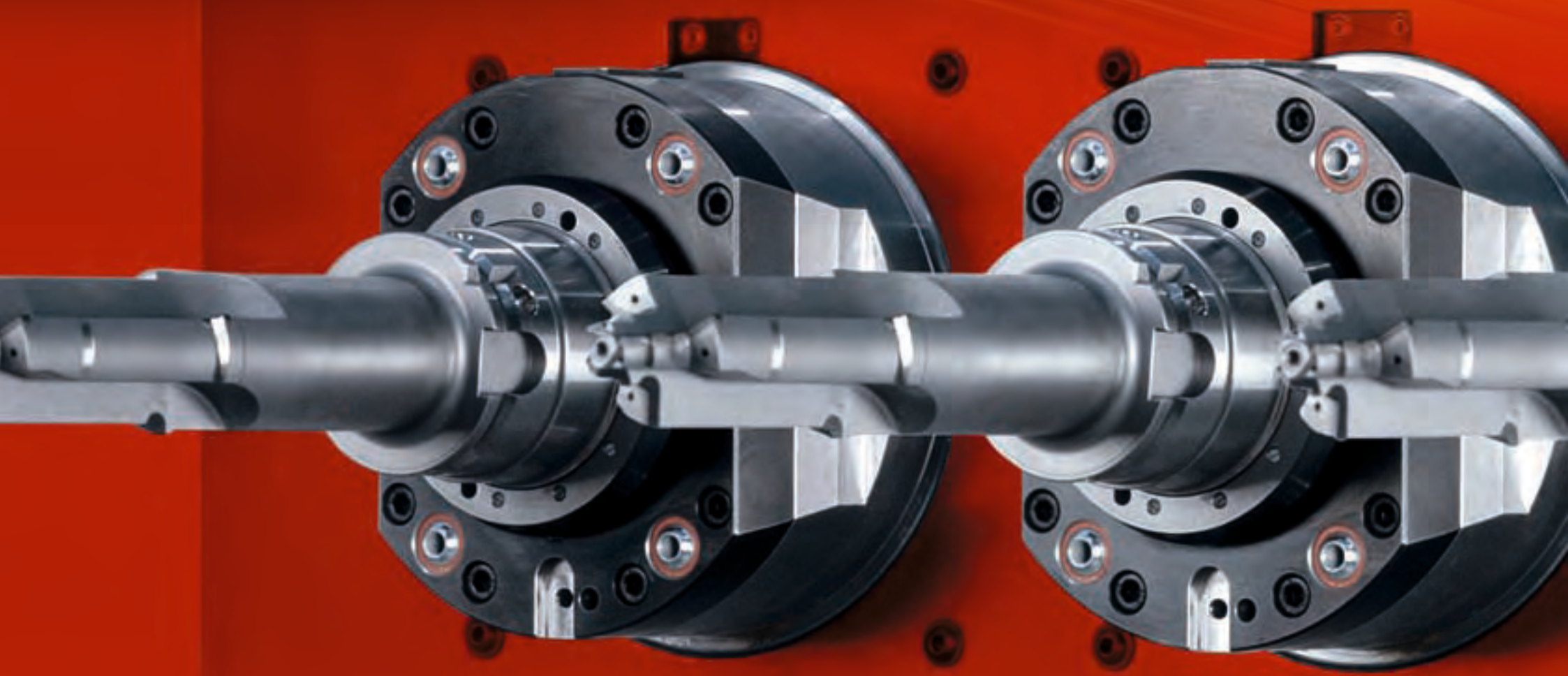

Trust the tried and tested – and reap the benefits. Testing new ideas and advancing the whole concept. Based on this approach we have extended the BA W04 concept, which has been running successfully for many years, by introducing the four-spndle **BA W04-42**.

- Four-spindle machine with robust block-type headstock
- Liquid-cooled synchronous motor spindles
- Oil mist lubrication of spindle bearings
- Spindle bearing diameter 80 mm
- Air sensoring system (spindle taper / tool taper)
- Tool monitoring systems

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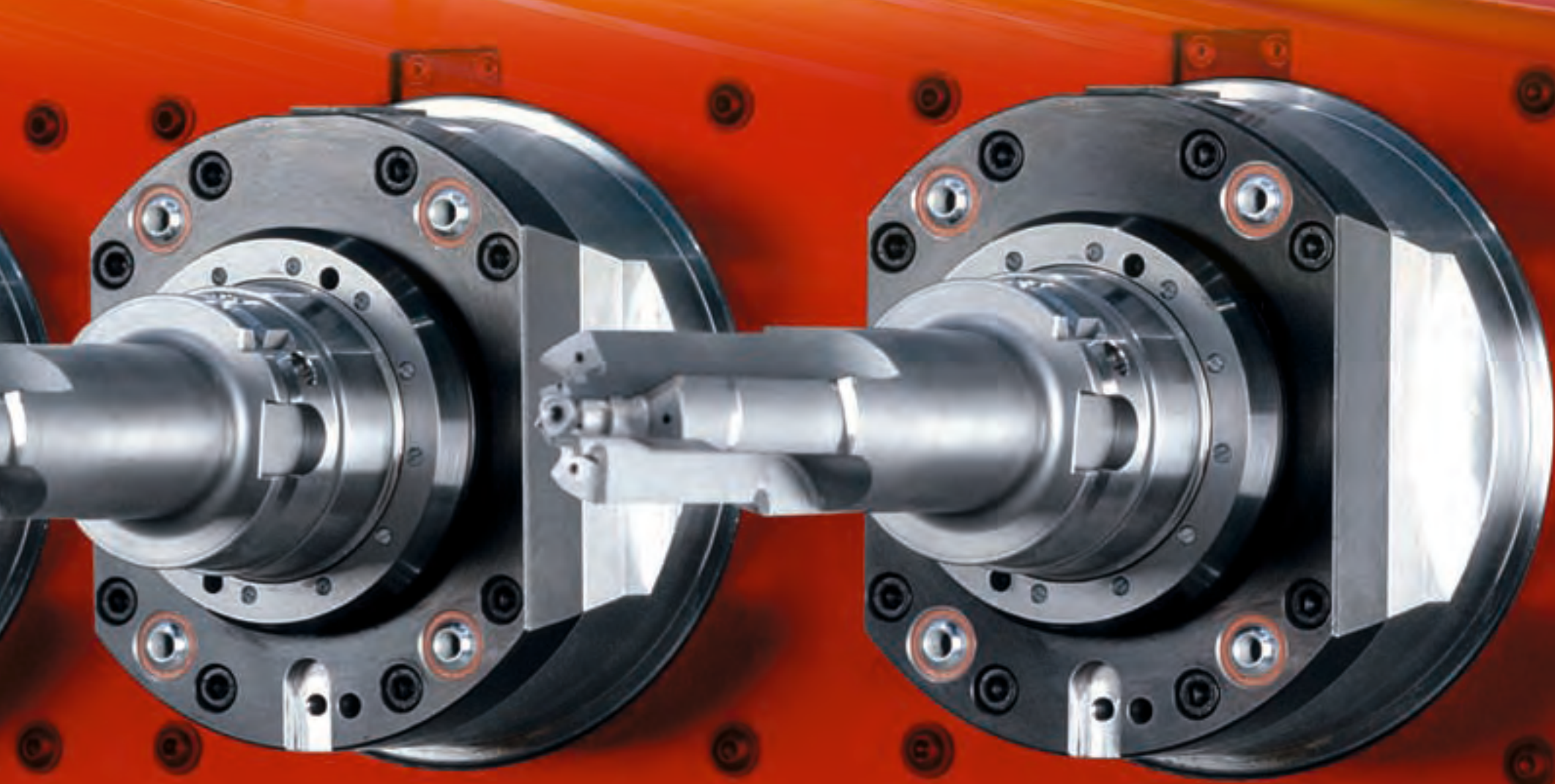
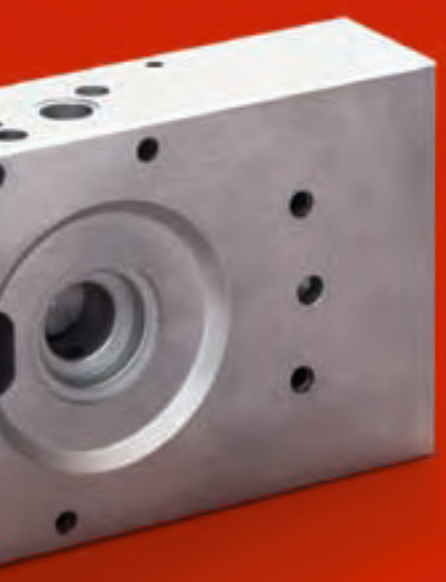
er of 128 kW





The machine		BA W04-42
X-axis	mm	200
Y-axis (toolchange position)	mm	500 (775)
Z-axis	mm	425
Spindle distance	mm	200
Work spindle		
Speed range	rpm	1–17,500
Power (40% duty cycle)	kW / rpm	4 x 32 / 4,200
Torque (40% duty cycle)	Nm	4 x 72
Feed drive		
Rapid speed X / Y / Z	m/min	70 / 100 / 100
Axis acceleration X / Y / Z	m/s^2	10 / 10 / 24
Max. feed thrust X / Y / Z	N	10,000 / 15,000 / 15,000

The EMAG Group – World-wide partner in forward looking production techniques

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