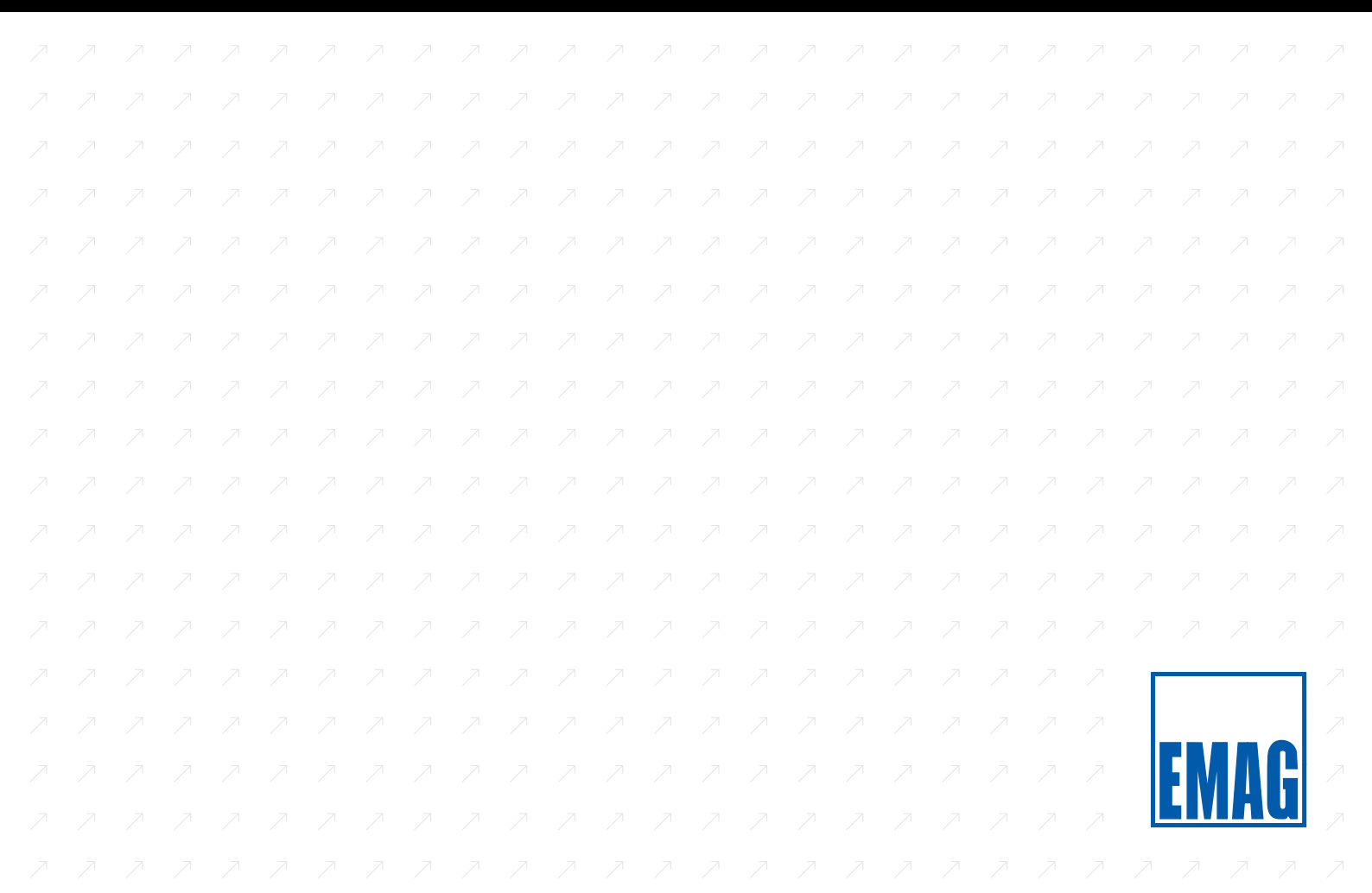
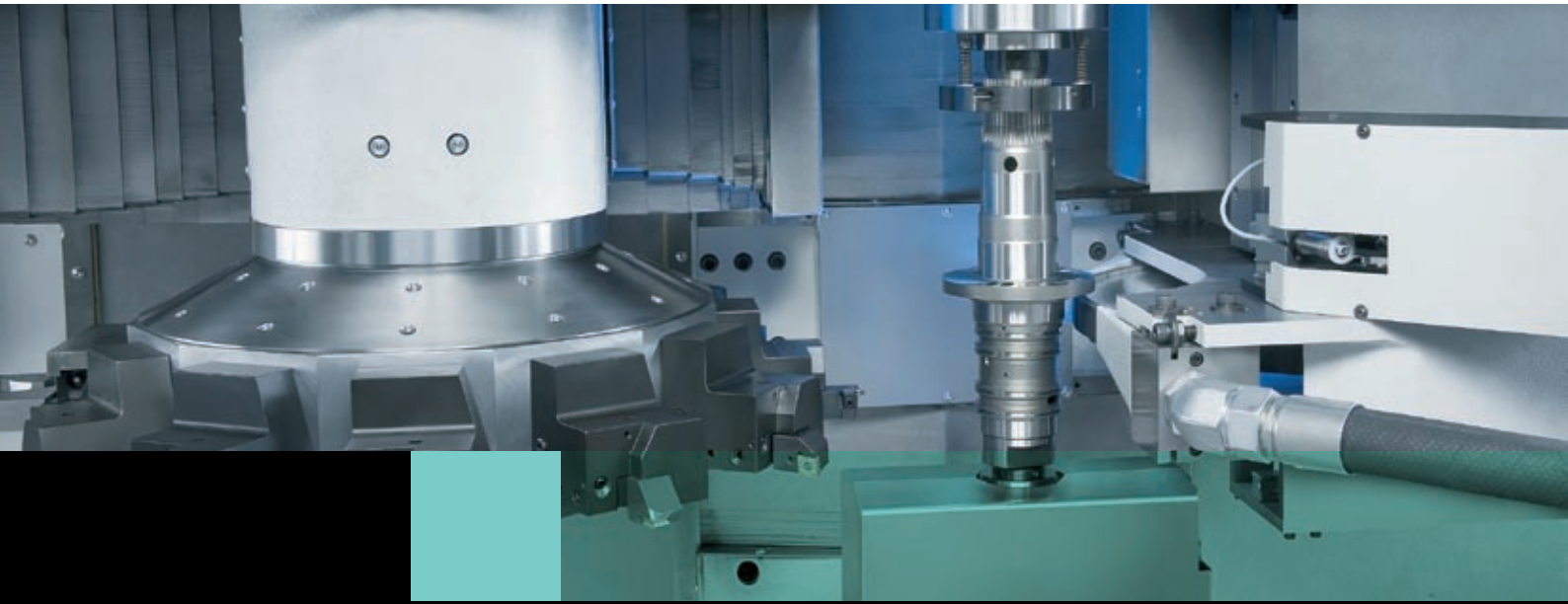


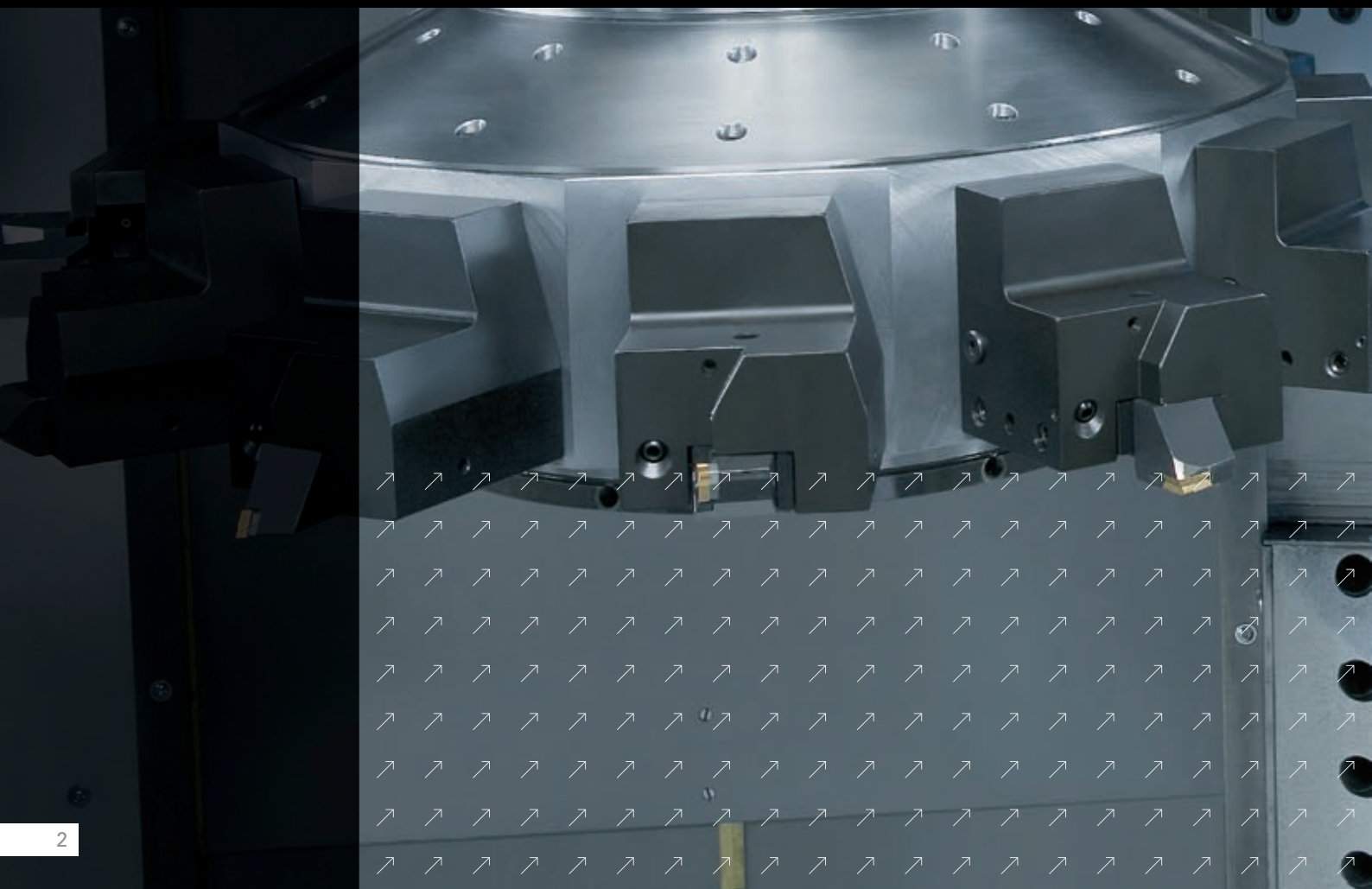
Shaft machining  
Vertical  
VTC 315 DS

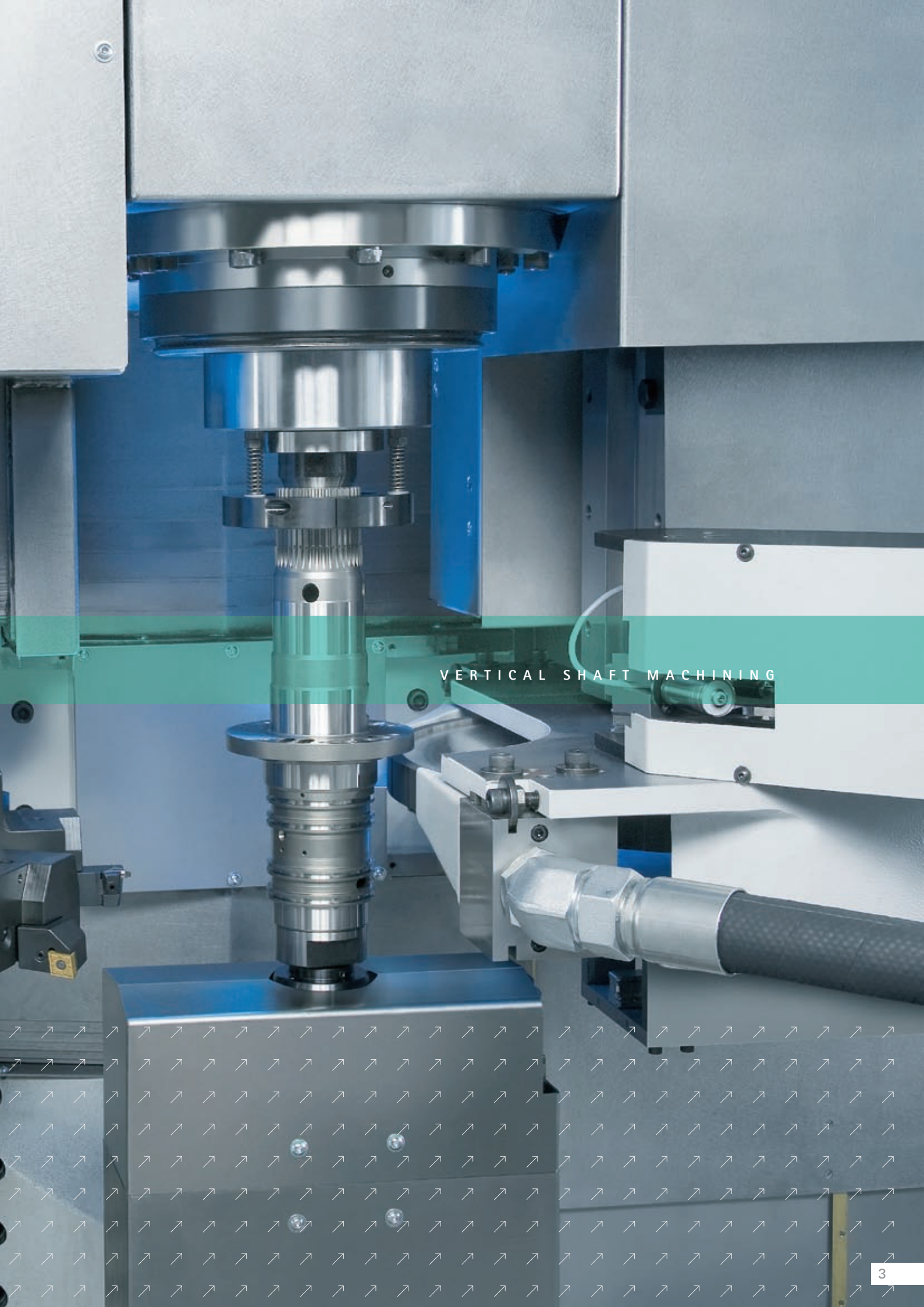


The VTC 315 DS –  
for the hard machining of  
shafts. For the first time,  
all end machining proces-  
ses for shafts on a vertical  
machine: CBN grinding,  
hard turning and scroll-free  
turning. The VTC 315 DS  
is ideally suited to handle  
complex manufacturing  
processes. Whether the  
job includes the high metal  
removal rates of turning  
and milling or a grinding  
process – the VTC series  
of machines offers the  
possibility to integrate most  
metal cutting processes.



V T C 3 1 5 D S





VERTICAL SHAFT MACHINING

## VTC 315 DS – turning, milling and grinding on a single machine.

The 315 DS facilitates the use of turning as well as grinding technologies.

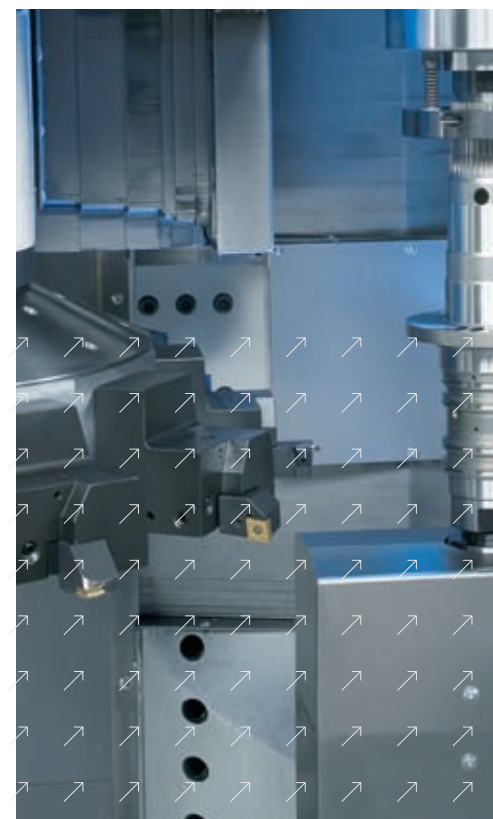
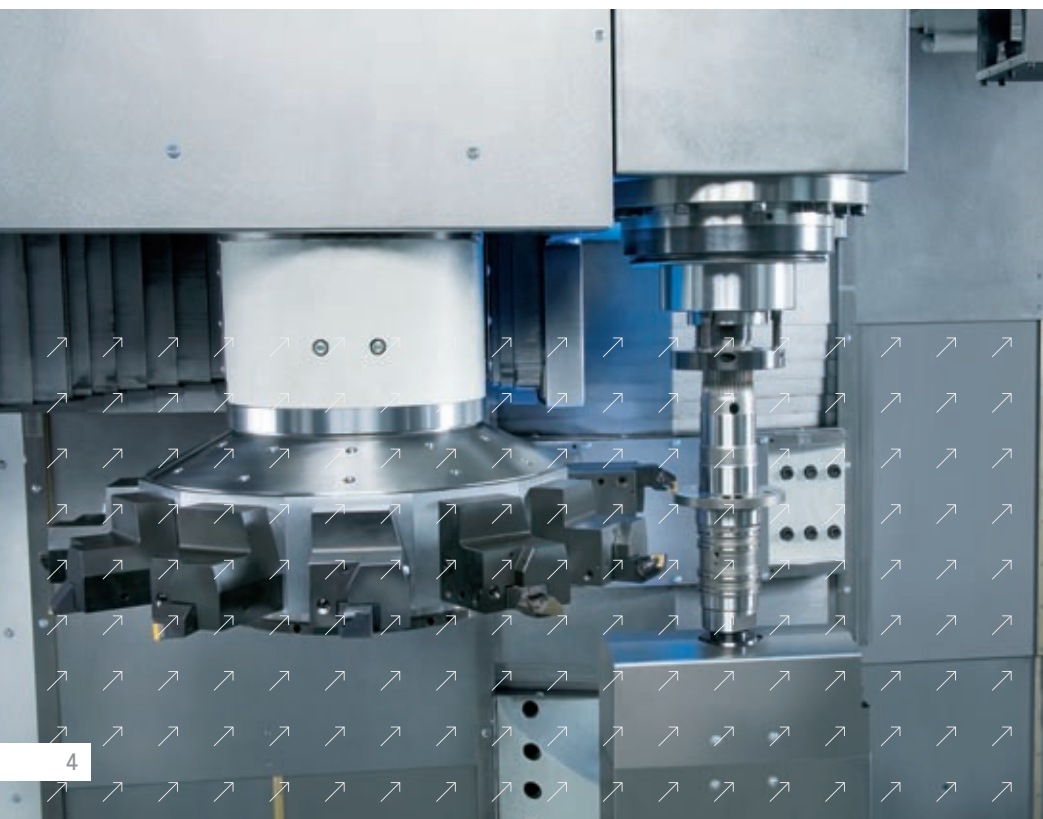
The turret carries out the turning and milling work, while a second tooling station accommodates the grinding operations. This ensures that shafts can be complete-machined: the cylindrical bearing seats, the shoulders and the grooves – all in a single set-up. Runout is much reduced when the component is not machined in separate set-ups.

The advantages of the VTC 315 DS:

- All hard machining processes on a single machine: CBN grinding, hard turning and scroll-free turning.
- Integrated loading and unloading: the EMAG turret reduces the cost for automation and peripherals. Raw-part and finished component storage are integrated into the machine.
- Tailstock and steadies are CNC controlled. Set-up and resetting times are reduced.

V T C 3 1 5 D S

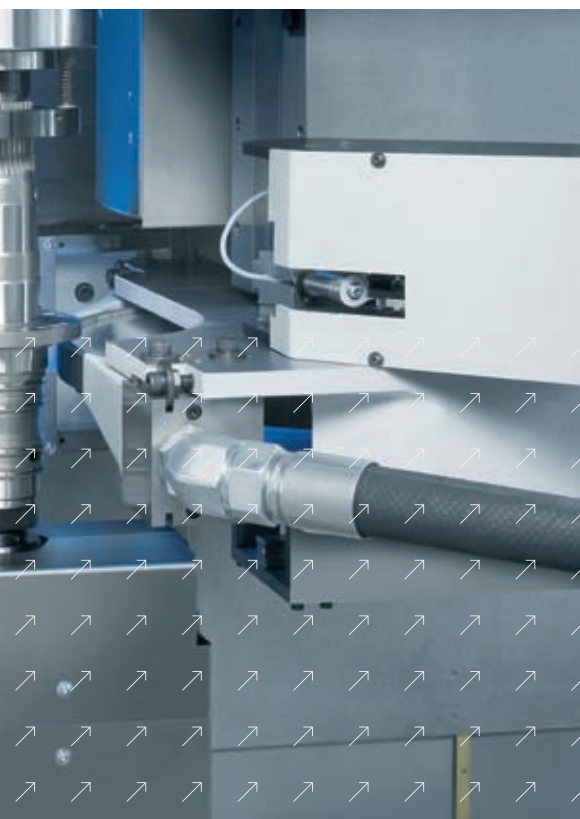
*Turning and milling operations are carried out by the turret.*



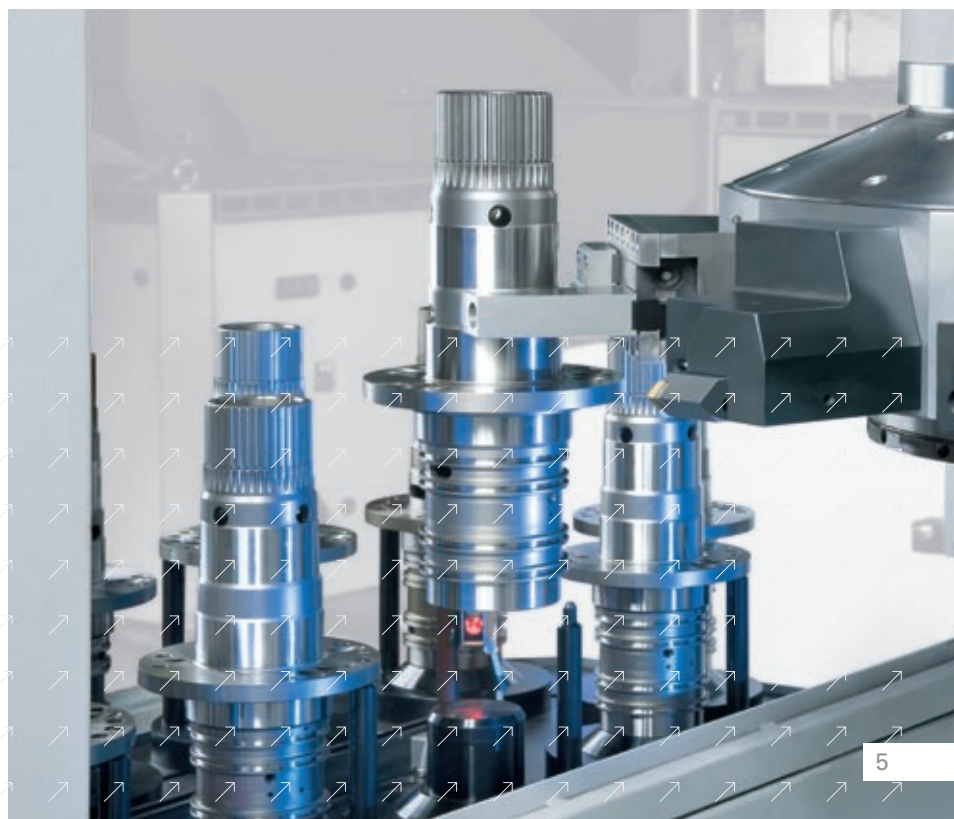
- Shafts are hard complete-machined, eliminating reclamping errors.
- The vertical construction of the machine provides ideal chip flow conditions and prevents the build-up of chip clusters.
- The compact, vertical construction also makes for a small footprint.
- The exceptional ease with which the machine can be accessed and operated ensures that set-up and resetting times are short.



*CBN grinding with a vertical wheel.*



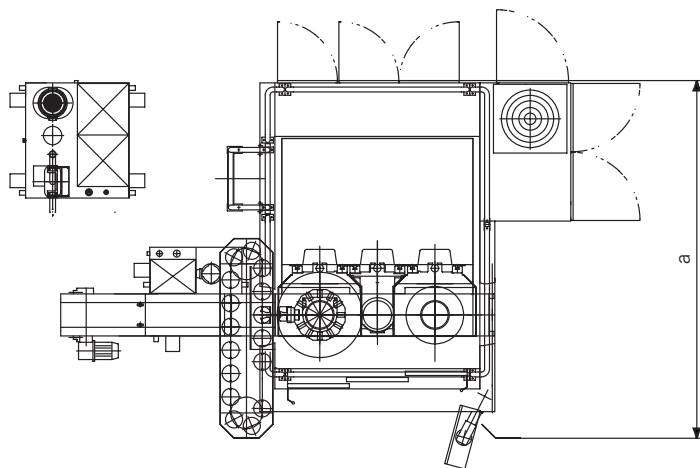
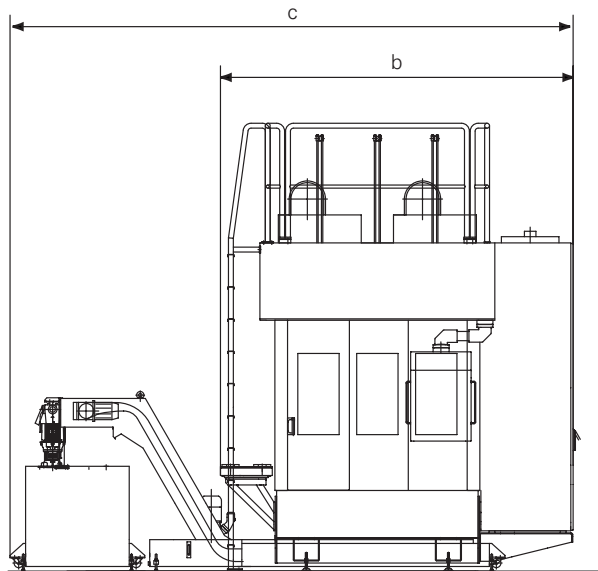
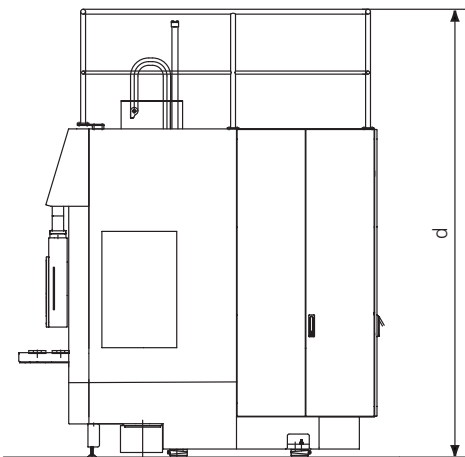
*Automation integrated. A gripper in the turret ensures that the VTC 315 DS loads itself.*



## Technical data.

Capacity			VTC 315 DS
Chuck diameter		mm	315
Workpiece diameter		mm	240
Travel in	X / Z	mm	390 / 950
Workpiece			
Length, max.		mm	700*
Weight, max.		kg	30
Main spindle			
Spindle nose to DIN 55 026-A		Size	8
Spindle bearing, front		dia. in mm	120
Speed, max.		rpm	4000
Main drive			
Power rating at 40 / 100 % duty cycle		kW	38 / 30
full power at spindle speed of		rpm	660
Torque at 40 / 100 % duty cycle		Nm	650 / 425
Feed drives			
Rapid traverse speed	X / Z	m/min	30 / 40
Feed force	X / Z	kN	14 / 10
Ball screw	X / Z	dia. in mm	40 / 50
Tooling system			
EMAG disc-type turret		Qty	1
Tool receptors per turret			
for cylindrical shanks to DIN 69 880		Qty	11
Shank diameter		mm	50
Loading gripper / unloading gripper		Qty	1
Grinding unit			
Grinding wheel diameter		mm	540
Grinding wheel width		mm	80

\* including height of chuck



Weights and measurements

Length (a)	mm	3100
Width (b)	mm	3100
Width (c)	mm	4900
Height (d)	mm	3900
Weight	kg	16000

Subject to technical changes

# At home in the world.

## **EMAG Gruppen-Vertriebs- und Service GmbH**

### **Salach**

Austrasse 24  
73084 Salach  
Germany  
Phone: +49 (0)7162 17 0  
Fax: +49 (0)7162 17 820  
E-mail: info@salach.emag.com

### **Frankfurt**

Orber Strasse 8  
60386 Frankfurt/Main  
Germany  
Phone: +49 (0)69 40802 0  
Fax: +49 (0)69 40802 412  
E-mail: info@frankfurt.emag.com

### **Köln**

Robert-Perthel-Strasse 79  
50739 Köln  
Germany  
Phone: +49 (0)221 126152 0  
Fax: +49 (0)221 126152 19  
E-mail: info@koeln.emag.com

### **Leipzig**

Pittlerstrasse 26  
04159 Leipzig  
Germany  
Phone: +49 (0)341 4666 0  
Fax: +49 (0)341 4666 114  
E-mail: info@leipzig.emag.com

### **Herford**

Arndtstrasse 8  
32052 Herford  
Germany  
Phone: +49 (0)5221 9333 0  
Fax: +49 (0)5221 9333 25  
E-mail: info@herford.emag.com

### **München**

Zamdorferstrasse 100  
81677 München  
Germany  
Phone: +49 (0)89 99886 250  
Fax: +49 (0)89 99886 160  
E-mail: info@muenchen.emag.com

### **Dänemark**

Horsvangen 31  
7120 Vejle Ø  
Denmark  
Phone: +45 75 854 854  
Fax: +45 75 816 276  
E-mail: info@daenemark.emag.com

### **Schweden**

Munkvägen 5  
73170 Köping  
Sweden  
Phone: +46 (0)221 40305  
Mobile: +49 (0)70 65 00 997  
E-mail: info@sweden.emag.com

### **Österreich**

Dorfstrasse 343  
5423 St. Koloman  
Austria  
Phone: +43 (0)6241 640  
Fax: +43 (0)6241 26204  
E-mail: info@austria.emag.com

## Contact us. Now.

### **ZETA EMAG SpA**

Viale Longarone 41/A  
20080 Zibido S.Giacomo (MI)  
Italy  
Phone: +39 02 905942 1  
Fax: +39 02 905942 21  
E-mail: info@zeta.emag.com

### **EMAG (UK) Ltd.**

Chestnut House,  
Kingswood Business Park  
Holyhead Road  
Albrighton  
Volverhampton WV7 3AU  
Great Britain  
Phone: +44 1902 376090  
Fax: +44 1902 376091  
E-mail: info@uk.emag.com

### **KP-EMAG**

ul. Butlerova 17  
117342 Moskau  
Russia  
Phone: +07 495 3302574  
Fax: +07 495 3302574  
E-mail: info@kp.emag.com

### **EMAG L.L.C. USA**

38800 Grand River Avenue  
Farmington Hills, MI 48335,  
USA  
Phone: +1 248 442 6584  
Fax: +1 248 442 6706  
E-mail: info@usa.emag.com

### **EMAG MEXICO**

Colina de la Umbria 10  
53140 Boulevares  
Naucalpan Edo. de México  
Mexico  
Phone: +52 55 5 3742665  
Fax: +52 55 5 3742664  
E-mail: info@mexico.emag.com

### **EMAG DO BRASIL Ltda.**

Rua Ricardo Abed, 114  
Pirituba  
05171-030 São Paulo  
SP, Brazil  
Phone: +55(0)11 3906 9238  
Fax: +55(0)11 3906 9238  
E-mail: info@brasil.emag.com

### **EMAG Machine Tools (Taicang) Co., Ltd.**

Room 2315 B, Far East International Plaza  
No. 317 Xianxia Road  
200051 Shanghai,  
P.R. China  
Phone: +86 21 62 35 15 20  
Fax: +86 21 62 35 01 18  
E-mail: info@china.emag.com

### **EMAG INDIA Private Limited**

#12, 12<sup>th</sup> Main Street, 17<sup>th</sup> Cross  
Malleswaram  
Bangalore - 560 055,  
India  
Phone: +91 80 2344 7498  
Fax: +91 80 2344 7498  
E-mail: info@india.emag.com

### **EMAG KOREA Ltd.**

Lotte IT Castle 1st B/D, Rm 806  
550-1, Kasan-dong  
Kamchun-gu  
153-803 Seoul  
South Korea  
Phone: +82 2 2026 7660  
Fax: +82 2 2026 7670  
E-mail: info@korea.emag.com

### **TAKAMAZ EMAG Ltd.**

1-8 Asahigaoka Hakusan-City  
Ishikawa Japan, 924-0004  
Japan  
Phone: +81 76 274 1409  
Fax: +81 76 274 8530  
E-mail: info@takamaz.emag.com

### **EMAG SOUTH AFRICA**

P.O. Box 2900  
Kempton Park 1620  
Rep. South Afrika  
Phone: +27 11 3935070  
Fax: +27 11 3935064  
E-mail: info@southafrica.emag.com

### **NODIER EMAG INDUSTRIE S.A.**

Service commercial:  
38, rue André Lebourblanc - B.P. 26  
78592 Noisy le Roi  
France  
Phone: +33 1 30 80 47 70  
Fax: +33 1 30 80 47 69  
E-mail: info@nodier.emag.com

### **EMAG MAQUINAS HERRAMIENTA S.L.**

Pasaje Arrahona, No.18  
Centro Industrial Santigua  
08210 Barberà del Vallès (Barcelona)  
Spain  
Phone: +34 93 719 5080  
Fax: +34 93 729 7107  
E-mail: info@emh.emag.com

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