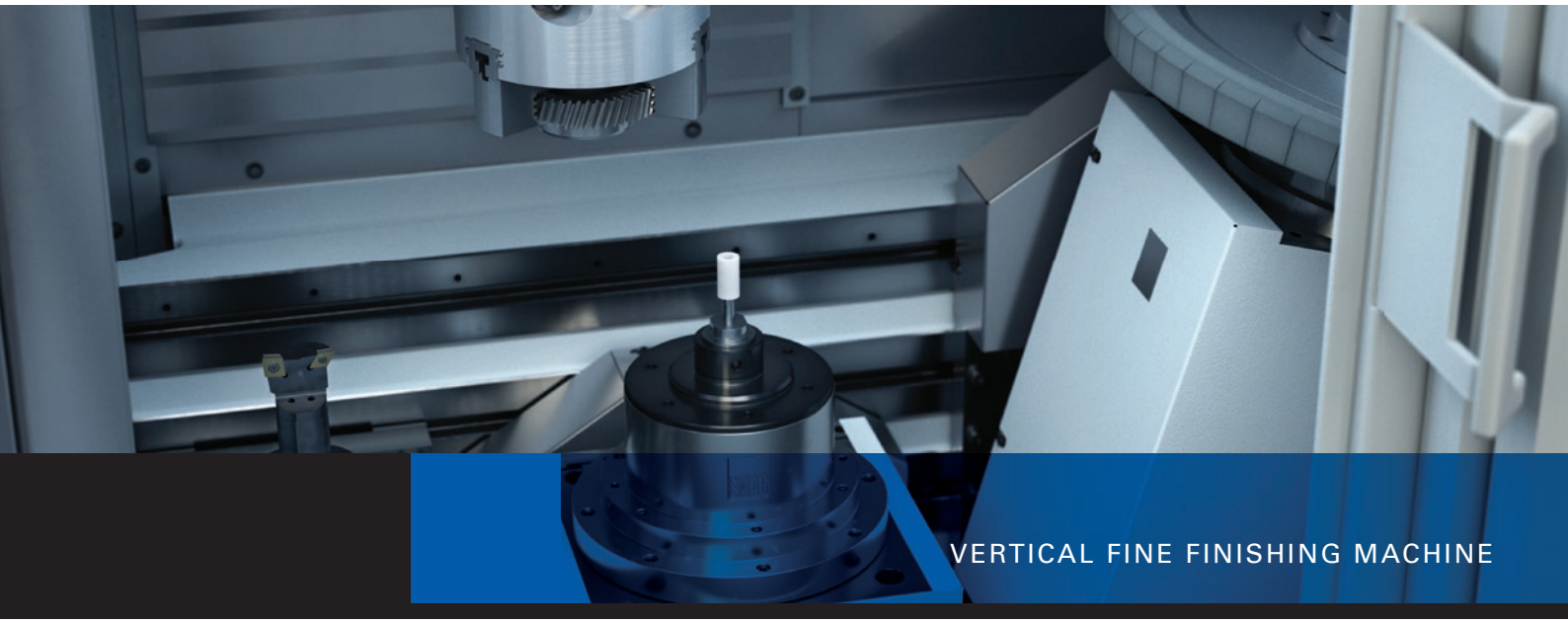
VLC 100 GT



VERTICAL FINE FINISHING MACHINE

think VERTICAL

EMAG

THE BENEFITS

1. **Machining area can be freely configured: tool block holder, internal grinding spindles, external grinding spindles**
2. **Complete machining in a single clamping operation = Maximum precision**
3. **Combined production processes = Hard turning and grinding on a single machine**
4. **Integrated automation, short distances = Short chip-to-chip times**

Vertical Fine Finishing Machine – VLC 100 GT

The VLC 100 GT provides perfect conditions for the highly productive automated fine finishing of chucked parts of up to 100 mm in diameter and can be combined perfectly with EMAG VL 2 / VLC 100 turning machines. This results in extremely compact production systems which can be adjusted flexibly to your machining requirements. Like all machines in the VL- / VLC-series, the aim is quite clear: short idle times and maximum productivity.

PRECISION FINISHING
MACHINE VLC 100 GT

5. **Vertical machining = Chips fall down unhindered**
6. **Small footprint = Operation of multiple machines taking up minimum floor space**
7. **Optimum accessibility = Quick machine set-up**
8. **Identical basic machines for different production tasks = Standard operation and parts programming**

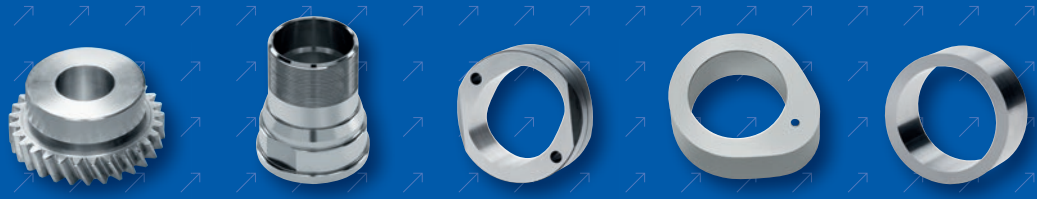
TECHNICAL DATA

Chuck diameter, max.	mm inch	160 6.3
Swing diameter, max.	mm inch	210 8.3
Machining diameter, max.	mm inch	100 3.9
X-axis travel	mm inch	900 35.4
Z-axis travel	mm inch	375 14.8
Main spindle		
» Power rating at 40 % / 100 % duty cycle	kW hp	19,5 / 12,5 26 / 17
» Torque at 40 % / 100 % duty cycle	Nm ft-lb	75 / 48 55 / 35
» Speed, max.	1/min	6.000
» Spindle bearing dia., front	mm inch	80 3.1

USE OF THE VLC 100 GT

The production of small chucked components often involves very large quantities. In particular, gear wheels, planetary gears, sprocket wheels, cam rings, pump rings and cams are required in millions of units for passenger cars, for example.

The VLC 100 GT has been specially developed for the productive and high precision manufacture of these components. The machine loads itself with a pick-up system and while one component is being ground, the operator or an automation system can place the next raw part on the revolving transport belt. This considerably reduces the machine's downtimes.



PRECISION

At home all over the world.

EMAG
Gruppen-Vertriebs- und Service GmbH

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

Frankfurt
Martin-Behaim-Strasse 12
63263 Neu-Isenburg
Germany
Phone: +49 6102 88245-0
Fax: +49 6102 88245-412
E-mail: info@frankfurt.emag.com

Cologne
Robert-Perthel-Strasse 79
50739 Köln
Germany
Phone: +49 7162 17-0
Fax: +49 7162 17-820
E-mail: info@koeln.emag.com

Leipzig
Pittlerstrasse 26
04159 Leipzig
Germany
Phone: +49 341 4666-0
Fax: +49 341 4666-014
E-mail: info@leipzig.emag.com

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

Austria
Glaneckerweg 1
5400 Hallein
Austria
Phone: +43 6245 76023-0
Fax: +43 6245 76023-20
E-mail: info@austria.emag.com

Denmark
Horsvangen 31
7120 Vejle Ø
Denmark
Phone: +45 75 854854
Fax: +45 75 816276
E-mail: info@daenemark.emag.com

Sweden
Glasgatan 19B
73130 Köping
Sweden
Phone: +46 221 40305
E-mail: info@sweden.emag.com

Poland
ERALL Poland
ul. Elektoralna 19b/m.11
00-137 Warsaw
Poland
Phone: +48 022 392 73 22
E-mail: j.tomczak@erall.pl

Czech Republic
Lolkova 766
103 00 Praha 10 – Kolovraty
Czech Republic
Phone: +420 731 476070
E-mail: mdelis@emag.com

Russia
ul. Akademika Chelomeya 3/2
117630 Moscow
Russia
Phone: +7 495 287 0960
Fax: +7 495 287 0961
E-mail: info@russia.emag.com

Belarus
ul. Timirjazeva, 65 B, Office 1101
220035 Minsk
Belarus
Phone: +375 17 2547730
Fax: +375 17 2547730
E-mail: info@emag.by

Subject to technical changes.

Contact us. Now.

NODIER EMAG INDUSTRIE
2, Parc des Fontenelles
78870 Bailly
France
Phone: +33 130 8047-70
Fax: +33 130 8047-69
E-mail: info@nodier.emag.com

EMAG MAQUINAS HERRAMIENTA S.L.
Pasaje Arrahona, nº 18
Polígono Industrial Santiga
08210 Barberà del Vallès (Barcelona)
Spain
Phone: +34 93 7195080
Fax: +34 93 7297107
E-mail: info@emh.emag.com

ZETA EMAG Srl
Viale Longarone 41/A
20080 Zibido S.Giacomo (MI)
Italy
Phone: +39 02 905942-1
Fax: +39 02 905942-22
E-mail: info@zeta.emag.com

EMAG (UK) Ltd.
Chestnut House,
Kingswood Business Park
Holyhead Road
Albrighton
Wolverhampton WV7 3AU
Great Britain
Phone: +44 1902 37609-0
Fax: +44 1902 37609-1
E-mail: info@uk.emag.com

EMAG L.L.C. USA
38800 Grand River Avenue
Farmington Hills, MI 48335
USA
Phone: +1 248 477-7440
Fax: +1 248 477-7784
E-mail: info@usa.emag.com

EMAG MEXICO
Colina de la Umbria 10
53140 Boulevares
Naucalpan Edo. de Mèxico
Mexico
Phone: +52 55 5374266-5
Fax: +52 55 5374266-4
E-mail: info@mexico.emag.com

EMAG DO BRASIL Ltda.
Rua Schilling, 413
Vila Leopoldina
05302-001 São Paulo
SP, Brazil
Phone: +55 11 38370145
Fax: +55 11 38370145
E-mail: info@brasil.emag.com

EMAG INDIA Pvt. Ltd.
Technology Centre,
No17/G/46-3 & 17/G/46-3-1,
Industrial Suburb, II Stage,
Yeshwanthpur,
Bangalore 560022.
India
Phone: +91 80 42544422
Fax: +91 80 42544440
E-mail: info@india.emag.com

EMAG SOUTH AFRICA
P.O. Box 2900
Kempton Park 1620
Rep. South Africa
Phone: +27 11 39350-70
Fax: +27 11 39350-64
E-mail: info@southafrica.emag.com

EMAG Machine Tools (Taicang) Co., Ltd.
Building 3, Cang Neng
Europe & American Technology Park
No. 8 Lou Jiang Rd. (N.)
215400 Taicang
P.R. China
Phone: +86 512 5367-6065
Fax: +86 512 5357-5399
E-mail: info@china.emag.com

EMAG KOREA Ltd.
Rm204, Biz center,
SKn Technopark, 124 Sagimakgol-ro,
Sangdaewon-dong, Joongwon-gu,
Seongnam City,
Gyeonggi-do, 462-721,
South Korea
Phone: +82 31 776-4415
Fax: +82 31 776-4419
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

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