

External cylindrical grinder HG 2

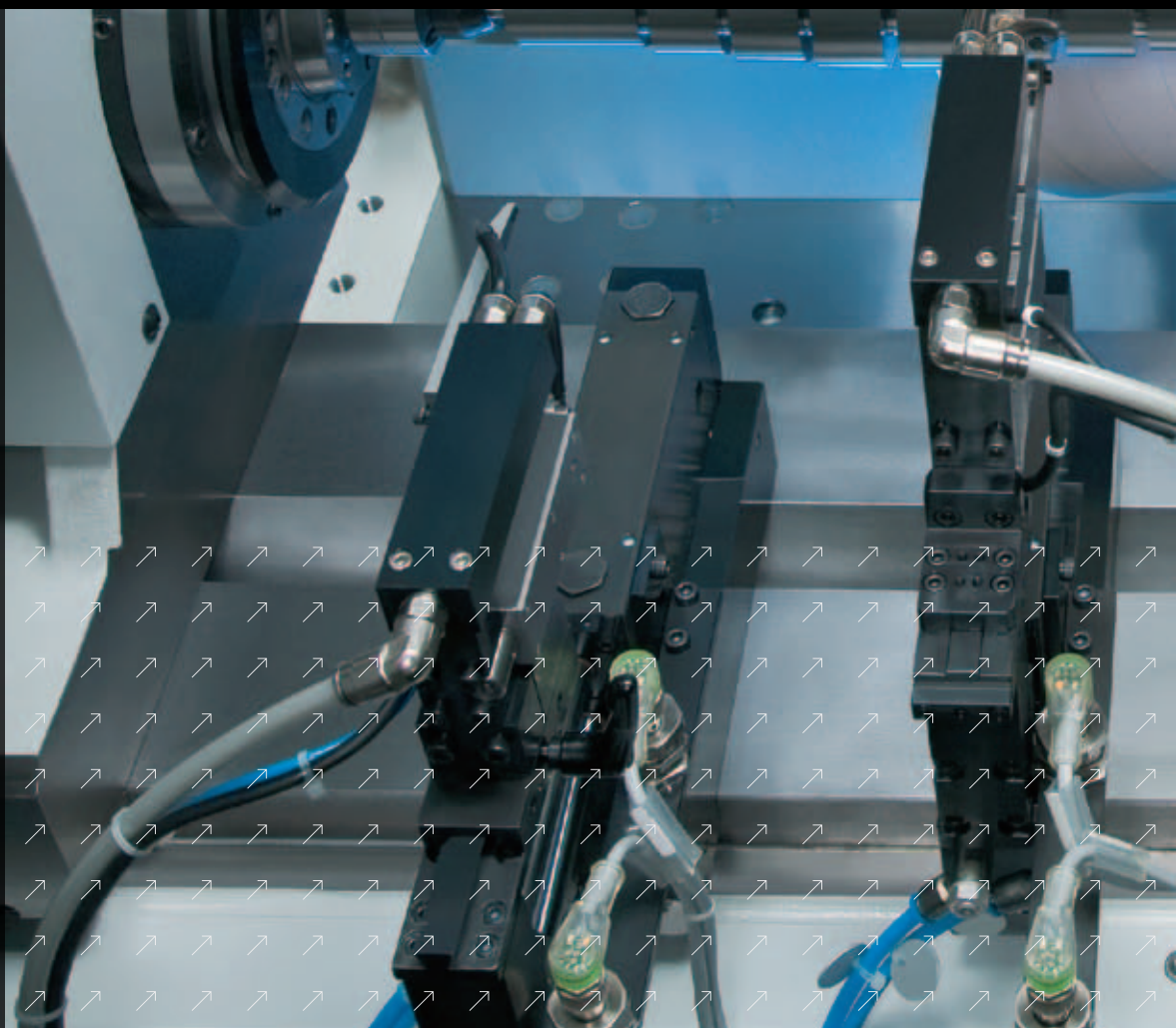


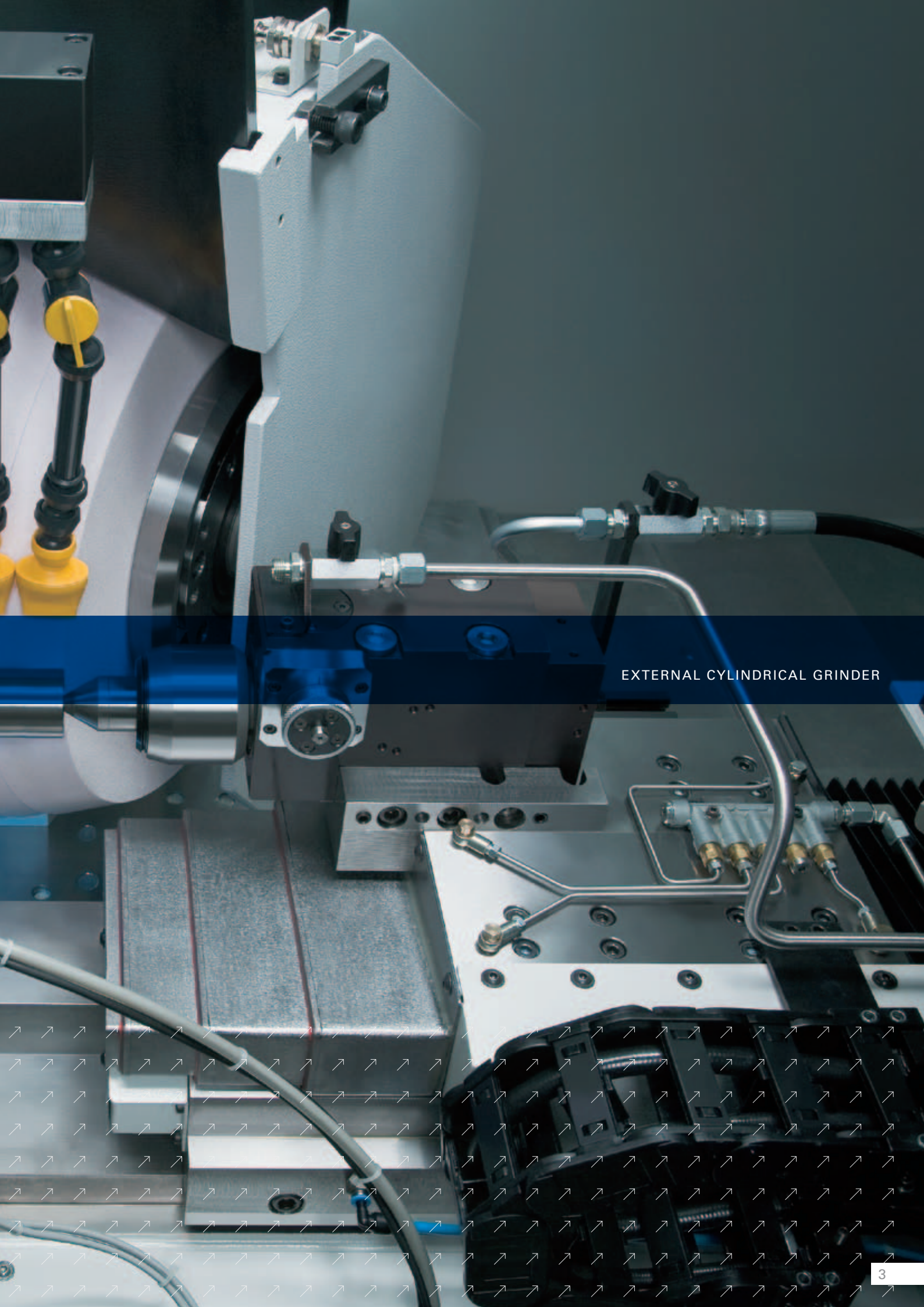
KARSTENS

When the EMAG Grinding Division introduced the HG 2 series to its horizontal grinding machine platform it took into account all the demands that are made on modern cylindrical grinders. In fact, with the HG 2 External Cylindrical Grinder EMAG presents a new, highly productive and flexible machine concept for the grinding of small, medium and large batches of shaft-type components.



H G 2



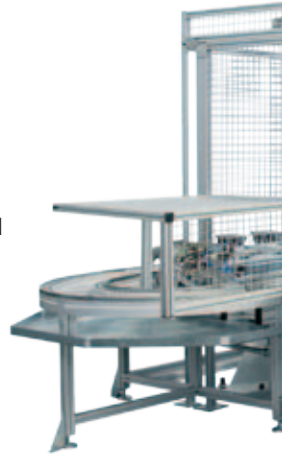


EXTERNAL CYLINDRICAL GRINDER

HG 2 – the efficient solution for low-cost component manufacture.

The HG 2 machines workpieces of up to 600 mm in length. The high static and dynamic rigidity of its thermostable cast iron machine base guarantees excellent manufacturing quality. The dimensions of the machining area offer easy access to the machine and accommodate extensive axis movements. Linear motion guideway systems allow for the smallest infeeds and excellent continuity of movement. These stick-slip-free and well damped infeeds lead to exceptional contour integrity and outstanding surface finishes.

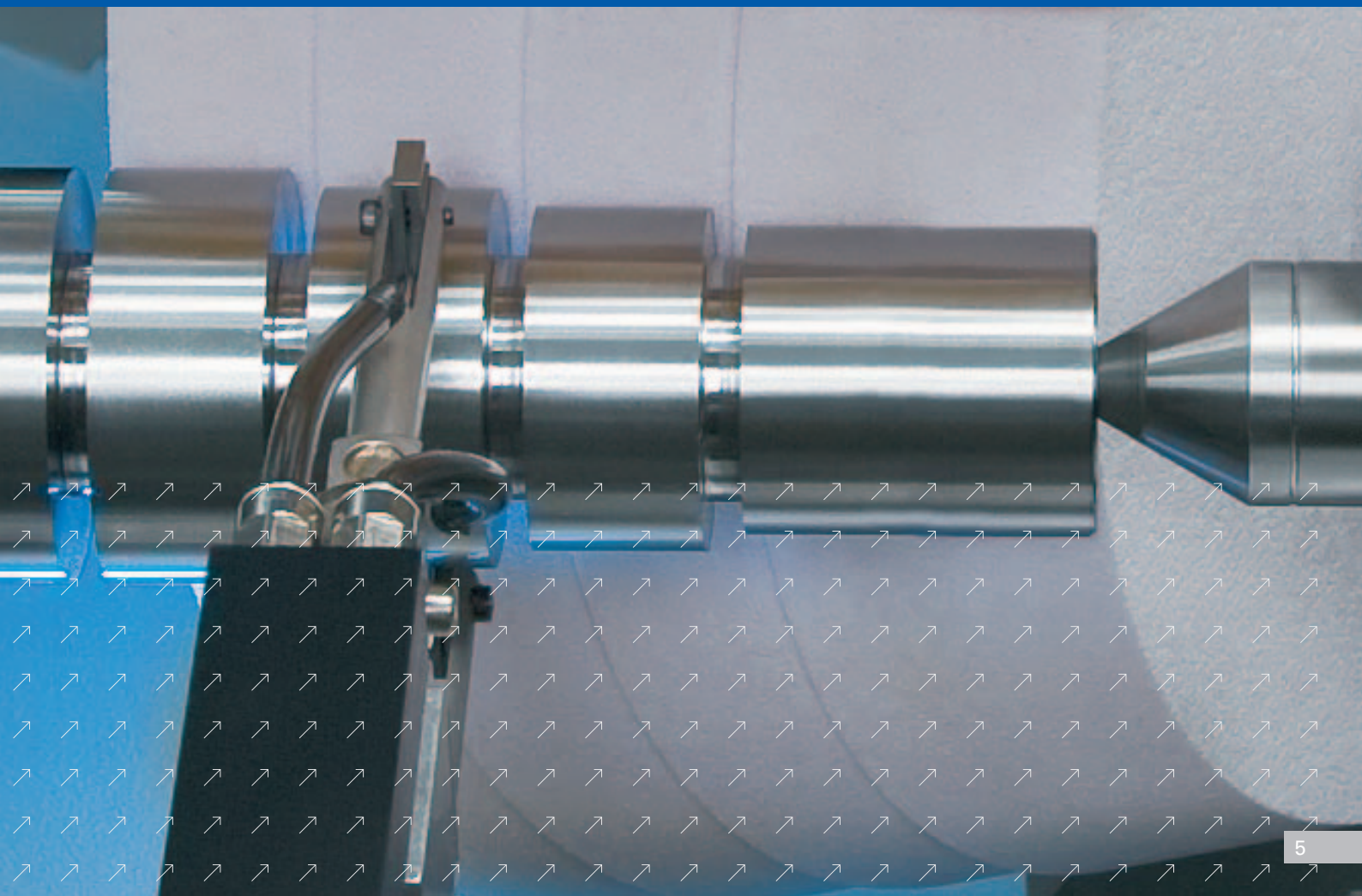
The HG 2 is equipped with precision ball screws, which- in combination with the absolute measuring systems in X- and Z-axis (linear glass scales)- make for high precision. The HG 2 is not subject to any vibrations from machine enclosure or automation equipment that could have a negative influence on the machining results. The optional equipment specification includes an integrated loader with recirculating pallet storage conveyor, a coolant purification plant and a grinding mist extractor



H G 2

The HG 2 and its advantages:

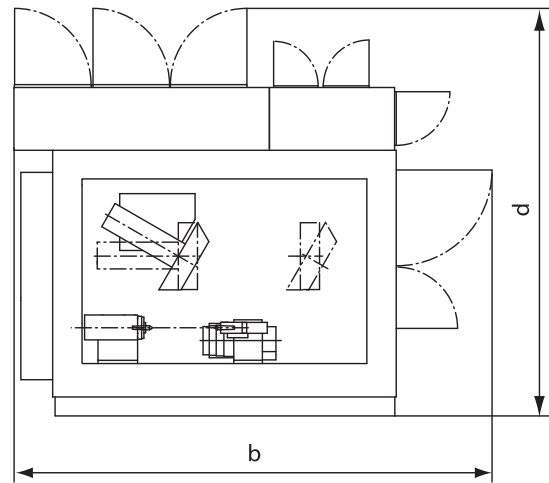
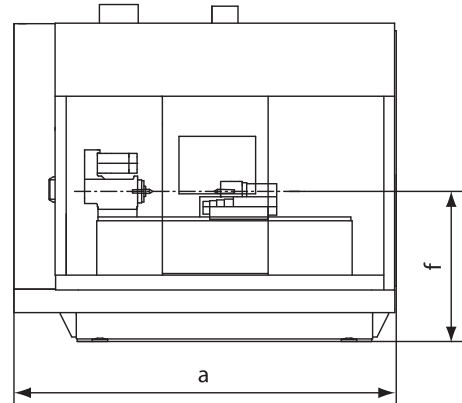
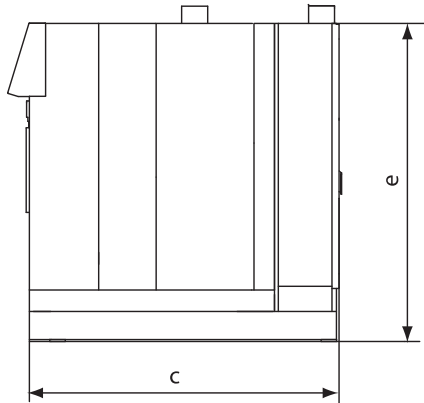
- A high-powered wheel drive shortens machining times
- A contact and crash recognition and wheel balancing system monitors the grinding process
- An in-process gauging control checks O/Ds and the longitudinal position on shoulders
- Operator and setter menus simplify handling
- High-precision, sturdy linear roller guideways in all axes guarantee the longevity of the machine
- Absolute measuring systems (linear glass scales) in all axes ensures the highest machining accuracy
- An NC tailstock with large stroke makes for easy resetting
- Short idle times lead to high productivity levels
- An operator-friendly workpiece error correction system automatically rectifies dimensional errors
- Large doors give optimal access, thus reducing the distance between operator and workpiece



Technical Data.

Capacity		HG 2	
Workpiece diameter max.	mm in	200 7.9	
Max. length of automatically loaded workpieces	mm in	400 15.7	
Max. length of manually loaded workpieces	mm in	600 23.6	
Max. workpiece weight	kg lb	40 88	
Grinding wheels			
Corundum wheels, max. dia.	mm in	610 24.0	
Max. wheel width	mm in	150 5.9	
Power rating of wheel drive	kW hp	15 20	
Feeds and speeds			
X-axis travel	mm in	360 14.2	
Z-axis travel	mm in	1,000 39.4	
X- and Z-axis speed	m/min ipm	30 / 30 1,181 / 1,181	
Work head with belt-driven spindle			
Torque	Nm ft-lb	30 22	
Speed range	rpm	1 – 1,000	
Receptor	MT	4	
Dimensions and weights			
Length a	mm in	2,990 117.7	
Length b	mm in	3,810 150.0	
Width c	mm in	2,400 94.5	
Width d	mm in	3,190 125.6	
Height e	mm in	2,490 98.0	
Center height f	mm in	1,175 46.3	
Weight	approx. kg approx. lb	9,000 19,841	

Floor plan HG 2



At home in 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

Contact us. Now.

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 México
Mexico
Phone: +52 55 5374266-5
Fax: +52 55 5374266-4
E-mail: info@mexico.emag.com

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

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
No. 17/G/46-3, Industrial Suburb,
2nd Stage, Yeshwantpur,
Bengaluru – 560 022.
India
Phone: +91 80 42544400
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

Subject to technical changes.

224-1-GB/09/2013 - Printed in Germany - © Copyright EMAG

www.emag.com

