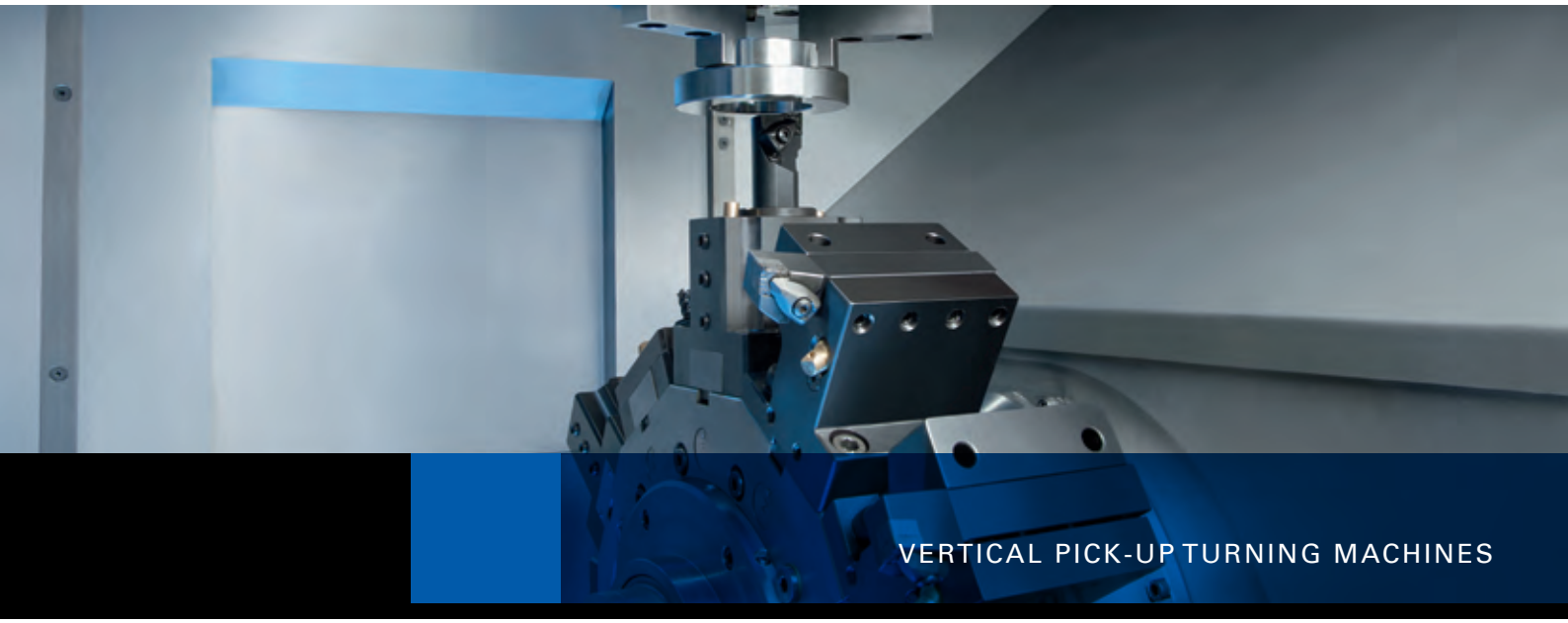
VL-SERIES

VL 2 · VL 4 · VL 6 · VL 8



VERTICAL PICK-UP TURNING MACHINES

think VERTICAL

EMAG

+ **Consistent vertical model families with modular design ensure a large range of versions**
+ **Ideal for medium and large scale production**
+ **Every machine features all the automation and handling technologies**
+ **Designed for manual loading, but also easy to automate**
+ **Suitable for operation of multiple machines**

VL 2

Workpiece diameter, max.: 100 mm

Workpiece length, max.: 150 mm

VL 4

Workpiece diameter, max.: 200 mm

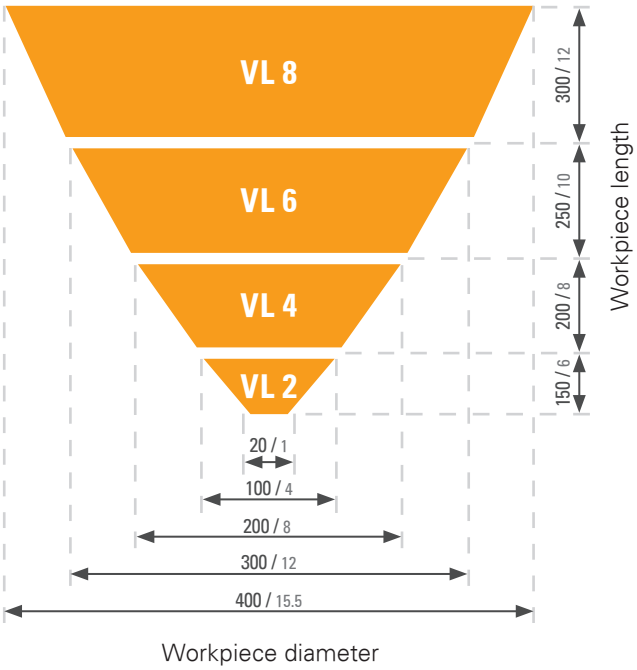
Workpiece length, max.: 200 mm

THE
VL-PLATFORM

AUTOMATED PRODUCTION WITH MINIMUM SPACE REQUIREMENT

THE WORKPIECE RANGE

Specifications in mm / inch



VL 6

Workpiece diameter, max.: 300 mm

Workpiece length, max.: 250 mm

VL 8

Workpiece diameter, max.: 400 mm

Workpiece length, max.: 300 mm

THE BENEFITS

1. **Machining of chucked parts = Standard machine concept**
2. **Small footprint (chaku-chaku or close linear arrangement) = Reduced floor space costs, more possibilities for the machine layout**
3. **Possibility of simple interlinking via central feeding and discharge belts and pick-and-place unit / changer = Flexible as regards to future developments, lower automation costs, and shorter tooling times**
4. **Integrated automation = No additional costs (interface, etc.)**
5. **Short transport distances = Optimization of idle times**
6. **Common parts strategy, standard spare parts warehousing = Lower maintenance costs**
7. **Ease of operation (extremely accessible machining area) = Quicker machine set-up**
8. **High energy efficiency = Reduction in energy costs**

+ **Three axes (X, Z, C), optional Y-axis**
+ **Turret with up to twelve (driven) tools**
+ **Automation**

TURNING MACHINES
VL 2 · VL 4 · VL 6 · VL 8

COMPACT

Low Costs per Piece Guaranteed

A design which ensures a giant leap forward in terms of production performance: the machines of the VL-series are space-saving vertical turning machines with integrated automation.

Maximum performance at low costs per piece – this performance is based on high-quality components: the machine body is made of MINERALIT® polymer concrete with damping properties, a pick-up working spindle moves in the X- and Z-axes with minimum response times and the tool turret guarantees short swiveling times.

Furthermore, the machines can be fitted with a Y-axis in the turret to allow for the machining of complex geometries. The possible fields of applications for the machines are thus increased massively.

The result: the machine structure ensures a high level of component quality and process reliability while requiring minimum floor space.

THE MOST IMPORTANT KEYWORDS

HIGH STRENGTH
Large working spindle bearing diameter + machine body made of MINERALIT®

FULL AUTOMATION
Including raw and finished parts storage areas

SIMPLE HANDLING
All the service units are easy to reach

MINIMUM FOOTPRINT
thanks to compact machine design

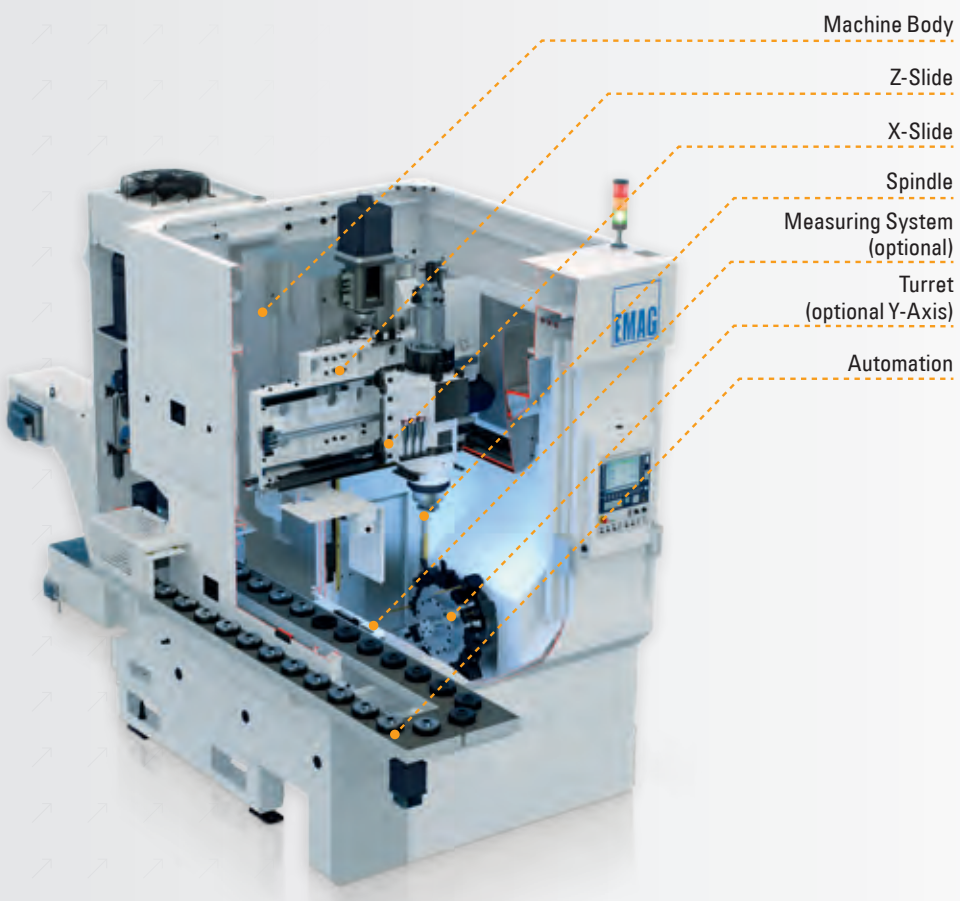
MAXIMUM PERFORMANCE
thanks to short transport distances

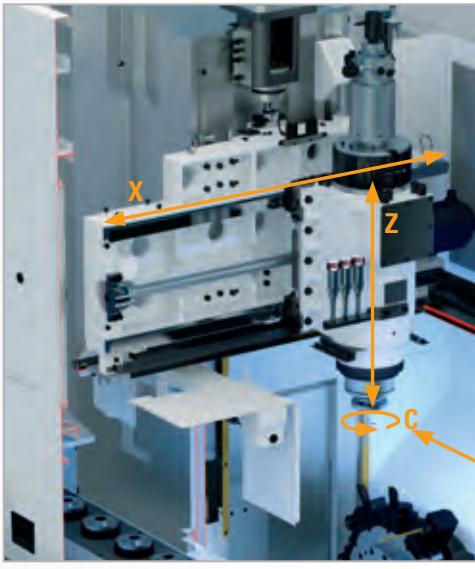
TECHNICAL DATA	VL 2	VL 4	VL 6	VL 8
Chuck diameter	160 mm 6.5 inch	260 mm 10 inch	400 mm 15.5 inch	500 mm 19.5 inch
Workpiece diameter, max.	100 mm 4 inch	200 mm 8 inch	300 mm 12 inch	400 mm 15.5 inch
Workpiece length, max.	150 mm 6 inch	200 mm 8 inch	250 mm 10 inch	300 mm 12 inch
X-axis travel	700 mm 27.5 inch	740 mm 29 inch	880 mm 34.5 inch	995 mm 39 inch
Z-axis travel	375 mm 15 inch	400 mm 15.5 inch	480 mm 19 inch	580 mm 23 inch
Y-axis travel (optional)	± 50 mm ± 2 inch	± 30 mm ± 1 inch	± 30 mm ± 1 inch	± 30 mm ± 1 inch
Main spindle				
» Power rating, 40% / 100%	19.5 / 12.5 kW 26 / 17 hp	27 / 18 kW 36 / 24 hp	39 / 28 kW 52 / 38 hp	44 / 34.5 kW 59 / 46 hp
» Torque, 40% / 100%	75 / 48 Nm 55 / 35 ft-lb	303 / 202 Nm 223 / 149 ft-lb	450 / 330 Nm 332 / 243 ft-lb	775 / 600 Nm 572 / 443 ft-lb
» Speed, max.	6,000 rpm	4,500 rpm	3,100 rpm	2,850 rpm
Turret tool stations	12 Qty	12 Qty	12 Qty	12 Qty
Rapid-traverse rate X / Y / Z	60 / 30 / 30 m/min 2,363 / 1,181 / 1,181 ipm	60 / 15 / 30 m/min 2,363 / 591 / 1,181 ipm	60 / 15 / 30 m/min 2,363 / 591 / 1,181 ipm	60 / 15 / 30 m/min 2,363 / 591 / 1,181 ipm
Speed driven tools	6,000 rpm	6,000 rpm	6,000 rpm	6,000 rpm
Torque driven tools, 30% / 100%	27 / 15 Nm 20 / 11 ft-lb	27 / 15 Nm 20 / 11 ft-lb	27 / 15 Nm 20 / 11 ft-lb	48 / 30 Nm 35 / 22 ft-lb

The compact machine design means that the modules can be closely positioned while the maintenance and servicing areas are easily accessible from the rear. This makes the VL-machines easy to link and therefore ideal for line production or chaku-chaku layout.

Measuring – Fully Integrated in the Process

An optional measuring station is available outside the machining area. The measuring station is installed between the machining area and the pick-up station. Measuring is carried out during transportation to the loading / unloading station, thus saving time.





KEY FEATURES

1. GOOD ACCESSIBILITY

All the service units are ergonomically arranged.

2. LOW SERVICE COSTS

All the units are always accessible (electrics, hydraulics, cooling system, cooling lubricant and central lubrication system).

3. EASY TO OPERATE

The control interface remains the same regardless of the control unit.

AUTOMATED PRODUCTION

THE AUTOMATION

The VL-machines are equipped with "O"-automation. The "O"-automation is a workpiece transport system which is fitted to the left-hand side of the machines. It transports the workpieces to the pick-up station.

BOTH CHANGERS AND PICK-AND-PLACE UNITS ARE AVAILABLE FOR AUTOMATED PRODUCTION

THE MACHINE IS AUTOMATICALLY LOADED AND UNLOADED AT THE PICK-UP STATION

At home all over the world.

EMAG Salach GmbH

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

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

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

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

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

WORLDWIDE

Market Companies

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, n° 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 905942-21
E-mail: zetaemag@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 OOO
ul. Akademika Chelomeya 3/2
117630 Moscow
Russia
Phone: +7 495 287 0960
Fax: +7 495 287 0962
E-mail: info@russia.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

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 Machine Tools (Taicang) Co., Ltd.
Building 3, Cang Neng
Europe & American Technology Park
No. 8 Lou Jiang Rd. (N.)
215400 Taicang
Jiangsu, China
Phone: +86 512 5357-4098
Fax: +86 512 5357-5399
E-mail: info@emag-china.com

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

Hungary
Gerenda 10
1163 Budapest
Hungary
Phone: +36 30 9362-416
E-mail: lbujaki@emag.com

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

Poland
ul. Prusa 9F / 1
50-319 Wrocław
Poland
Phone: +48 728 389 989
Fax: +48 601 371 353
E-mail: arak@emag.com

EMAG GROUP Thailand Office
19 Moo 1, Pong, Banglamung
Chonburi 20150
Thailand
Phone: +66 87 1468800
E-mail: ukaiser@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 KOREA Ltd.
Rm204, Biz center, SKn Technopark, 124
Sagimakgol-ro, Sangdaewon-dong,
Jungwon-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.

Contact us. Now.

257-1-GB/06.2014 · Printed in Germany ·

www.emag.com

EMAG