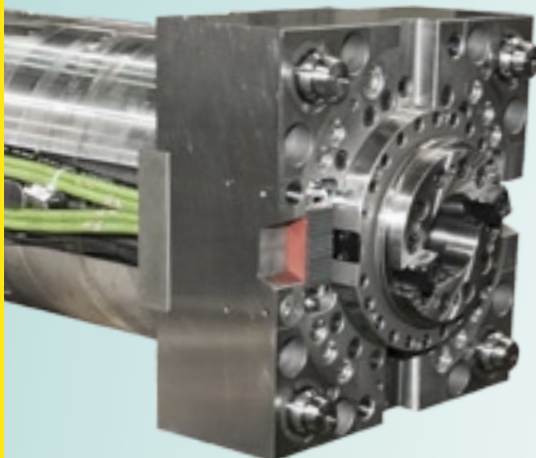


Cartridges and High Precision Subassemblies

As a basic unit, the ready-to-install spindle cartridge featuring hollow-shaft drive and pick-up interface offers a complete technology for boring and drilling, milling and turning on vertical turning and boring mills, gantry milling machines and bore & mill machines. High torque and high speed provides efficient machining.

Ready-to-install cartridges for RAM's for milling and drilling on vertical turning and boring mills



Including:

- Built-in motor
- Planetary gearbox, double-stage
- Milling spindle with interface for pick-up change of the high precision subassemblies:
 - 1NC/2NC fork type milling head
 - 2NC swivel-slide milling head
 - right angle milling head
 - toolholder for lathe work

Type/Designation	Speed RPM	Torque Nm	RAM size mm
RBU 800	8,000	800	ϕ 250 ... ϕ 300
RBU 1200	6,000	1,200	ϕ 330 ... ϕ 360
RBU 2000	4,000	2,000	ϕ 380 ... ϕ 420
RBU 4000	3,000	4,000	ϕ 430 ... ϕ 450



Quill units

HEADTec's high-speed quill units are available as ready-to-install high precision subassembly for bore, drill & mill machines and machining centers. Usually fitted to the head slide, they may also be integrated in the machine's RAM as a complete subassembly, including the main drive and the feed drive.

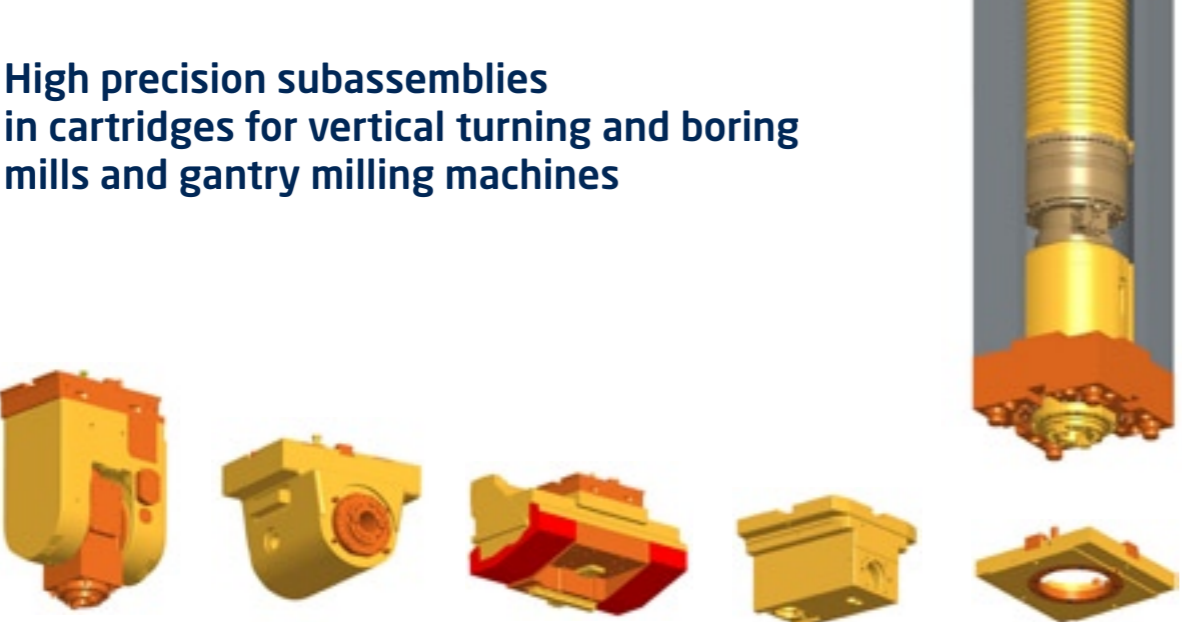
Use of high-quality basic components

- Hybrid spindle bearing
- Mechanic-hydraulic, self-locking tool chucking system
- Tools with cartridge cooling to shield from tool heat
- Quill cooling to keep clearance between quill and milling spindle constant, and a sophisticated technology to establish the high-precision tribological pairing between quill unit and milling spindle

This grants a high cutting performance over the whole quill unit travel. High machining quality is a characteristic feature.

Type/Designation		Q11-50	Q13-50	Q15-75	Q16-75	Q18-100	Q20-100
Quill unit diameter D	mm	110	130	150	160	180	200
Quill unit travel w	mm	500	500	750	750	1,000	1,000
Tool socket		SK50 / HSK-A100	SK50 / HSK-A100	SK50 / HSK-A100	SK50 / HSK-A100	SK60 / HSK-B125	SK60 / HSK-B125
Max. speed	RPM	6,000	6,000	5,000	5,000	3,000	3,000
Max. spindle torque	Nm	830	830	1,800	1,800	4,200	4,200
Power range	kW	27 38	27 38	37 46	37 46	55 66	55 66

High precision subassemblies in cartridges for vertical turning and boring mills and gantry milling machines



Fork-type mill-ing head
e.g. with SK 50
3,000 RPM
800 Nm

Angle head
e.g. with SK 50
3,000 RPM
800 Nm

Linear axis
Y = +/- 150mm

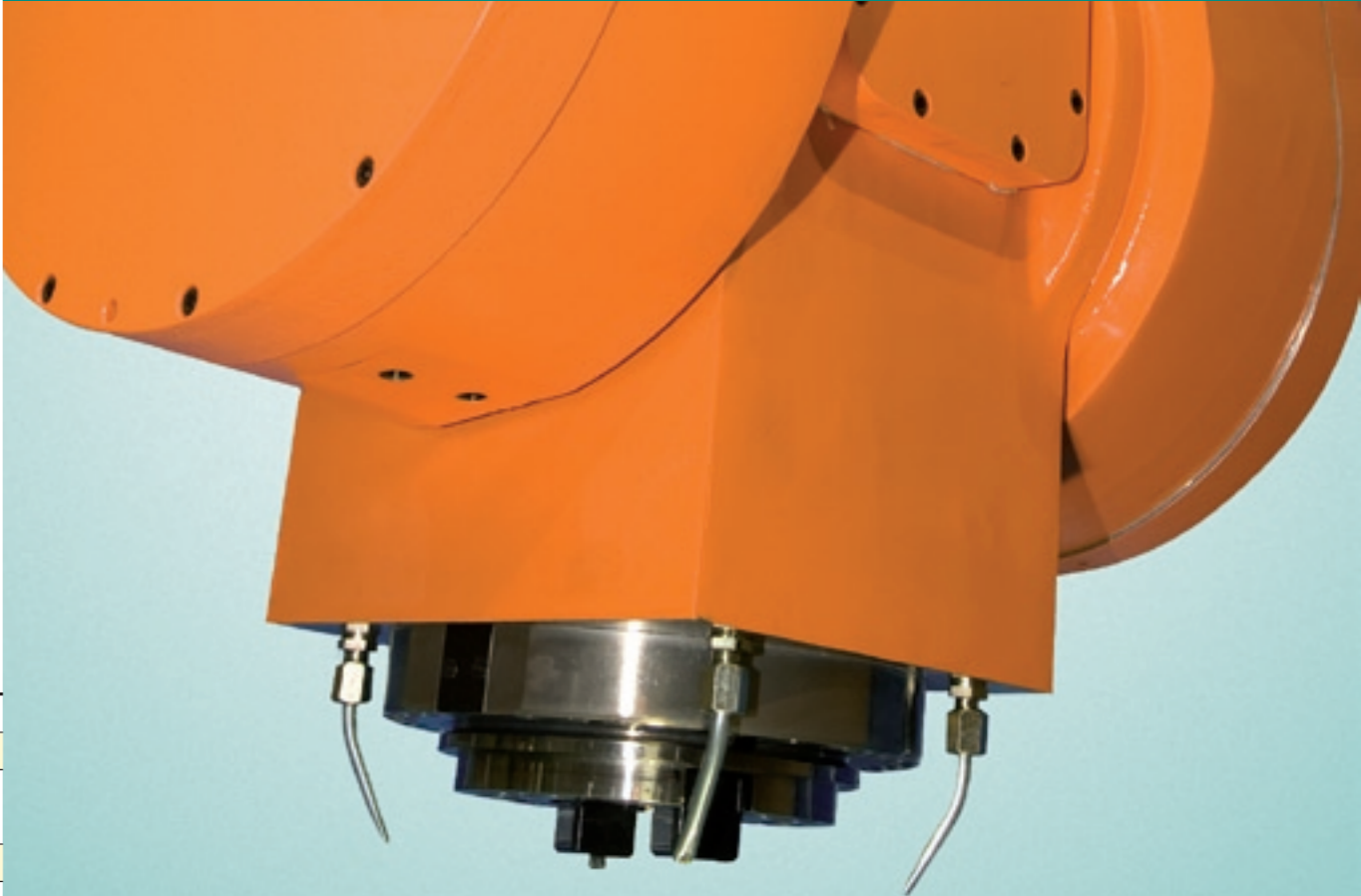
Toolholder

Protective plate

HEADTec

Smart engineering

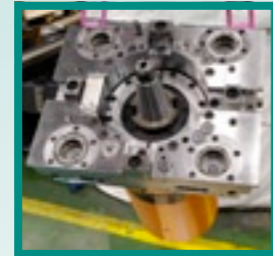
- Complete machining
- System integration
- Heavy-duty cutting
- Automatic pick-up



Interface to machine



► Fixed mount



► Automatic pick-up

Designed as



► Angle head

► Right angle head



► Fork-type milling head

► Universal head



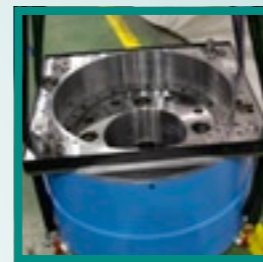
Milling heads

Our high-performance single and twin-axis roughing and finishing heads in different designs perfectly suit to heavy-duty and high-performance cutting in gantry milling machines, bore, drill & mill machines, and vertical turning and boring mills.

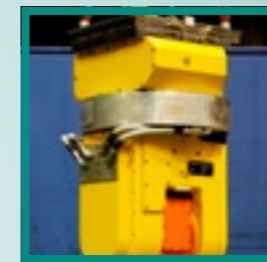
Highlights of our products

- $n \times 360^\circ$ through slip ring in C axis
- Extra linear axis, particularly for vertical turning and boring mills
- As drive subassembly, combined with our RBU series cartridge, including pick-up interface for head change
- Full and semi-automatic change of motor spindle for roughing and finishing
- Custom pick-up interface

Drive concepts



► Indexing via main drive



► Worm drive



► Drive with electrical preload



► Direct drive hydraulic or pneumatic locking

Spindle design



► Motor spindle, also as pick-up type



► Mechanical spindle driven by machine's main spindle

North America Agency

Gadra Enterprises Inc.
345, Airport Road
CA – LOS 1J0 Niagara-on-the-Lake, ON
Phone +1 905 – 688 -6151
Fax +1 905 – 688 -6414
info@gadra.com

Western Europe Agency

Giquattro s.r.l.
Via Aristotele 24/5
IT – 20128 Milano
Phone +39 02 – 2553170
Fax +39 02 – 2572846
info@giquattro.com

Subsidiaries in Germany

Rückle GmbH Werkzeugfabrik
Zaininger Str. 13 -15
D – 72587 Römerstein-Böhringen
Phone + 49 (0)73 82 – 9373 -0
Fax + 49 (0)73 82 – 9373 -49
info@rueckle.de

HEADTec GmbH

Otto-Schmerbach-Str. 19
D – 09117 Chemnitz
Phone + 49 (0)371 – 334265 -0
Fax + 49 (0)371 – 334265 -98
info@headtec.de

Vario-Fertigungstechnik GmbH

Tuchschererstr. 17
D – 09116 Chemnitz
Phone + 49 (0)371 – 27828 -0
Fax + 49 (0)371 – 27828 -49
info@vario-ft.de

Eastern Europe Agency

BIBUS S.R.O.
Videnska 124
CZ – 63927 Brno
Phone +420 547 – 1253 -22
Fax +420 547 – 1253 -10
adam@bibus.cz

Asian Subsidiary

Rückle Asia Co. Ltd.
德揚工業有限公司
2 F., No.18, Hefeng 6th Rd., Xindian City
Taipei County 23153 – Taiwan
23153 台北縣新店市禾豐六路18號2樓
Phone & Fax + 886 (0)2 – 2216 -3428
Mobile +886 (0)956 – 074541
wdeckert@rueckle.tw

HEADTec is a company of the Rückle group



HEADTEC GmbH
Otto-Schmerbach-Str. 19
D – 09117 Chemnitz

Contact
Phone + 49 (0)371 – 33 42 65 -0
Fax + 49 (0)371 – 33 42 65 -98
info@headtec.de

Management
Dipl.-Ing. Ottmar Schöllner
Dipl.-Ing. (FH) Markus Gädinger
Dipl.-Ing. Peter Teichmann

www.headtec.de