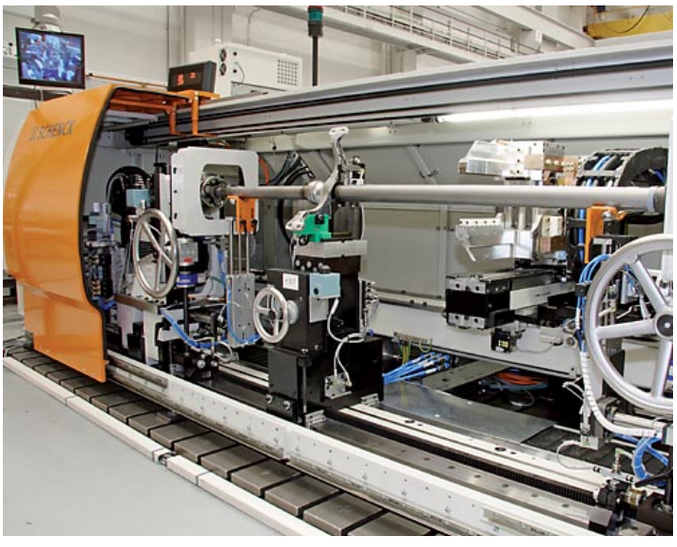
Series RBRQ200x
Balancing Machine for Drive Shafts



- Automatic measuring sequence
- Simulation of operational conditions through high speed measurement in hard-bearing support pedestals
- Unbalance correction by welding or drilling
- New microprocessor-controlled measuring unit
- Proven protective enclosure for drive shaft failure and noise protection

Range of application
Measurement and correction of unbalance in single and multi-piece drive shafts of passenger vehicles, light and heavy duty commercial vehicles.
Balancing and correction capacity for manufacturing, testing and inspection at vehicle manufacturers and component suppliers plants.
High speed measurement of unbalance close to or at operating speed.
Unbalance correction through spot or projection welding using medium frequency techniques, of preformed correction weights.

Design
Machine design is ideally suited for balancing vehicle drive shafts. Arrangement of the machine components takes ergonomic requirements into consideration. Vertical arrangement of the correction units.
Extremely flat machine base, specially designed for high speed measurement. Isotropically supported bearing pedestals with heavy duty, precision spindles. Variable speed AC main spindle motors are standard equipment.

Schenck RoTec GmbH
Landwehrstrasse 55
D-64293 Darmstadt

Telefon (0 61 51) 32 23 11
Telefax (0 61 51) 32 23 15

http://www.schenck-rotec.de
E-Mail rotec@schenck.net

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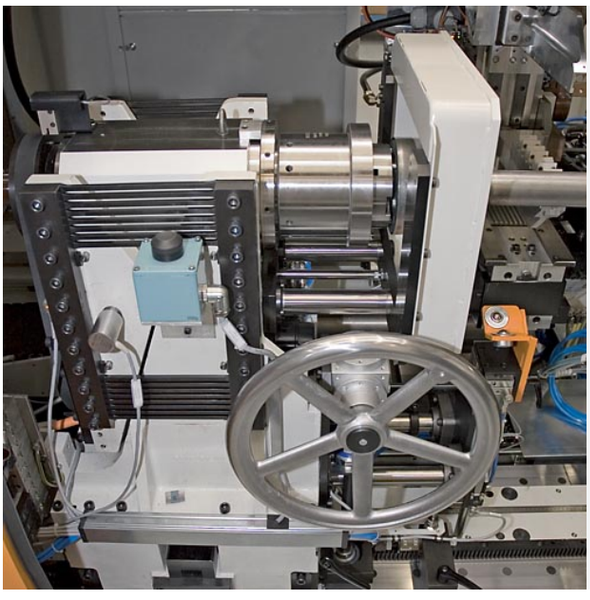
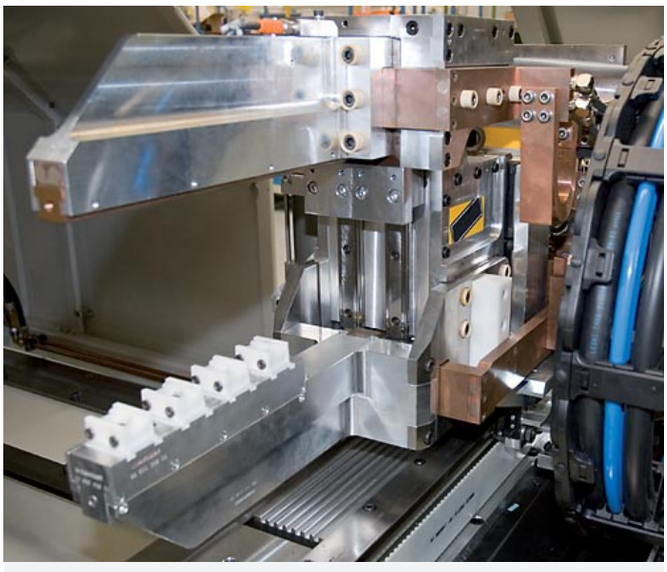
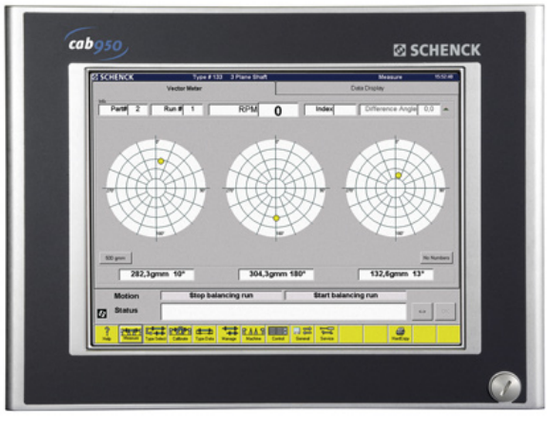


Fully symmetrical bearing pedestal with hard-bearing suspension system and precision spindle.Tooling adapters with spring actuating clamping device (pneumatic unclamping) can be supplied.



Patented single-station quadruple welding unit.Integrated heavy duty safety devices to secure the drive shaft during rotation. These allow adjustment of the support pedestals to accommodate very short shafts. Rollers built into the safety devices as loading aids are automatically retracted before the measuring run.

Standard protective safety guarding in modular elements with laminated plates for burst and noise protection. Quick acting pneumatic actuation of the large horizontally opening doors.Camera and monitor replace viewing windows.



Microprocessor-controlled measurement equipment with monitor for optimal calculation of the correction weights and direct display.Digital measurement technique with high frequency-selectivity.Electrical compensation for residual tooling unbalance and clamping eccentricity. Other special features: Large display, operator prompting, diagnostic program, fault display, statistics program and printer interface. Measurement equipment prepared for remote diagnosis via interface.

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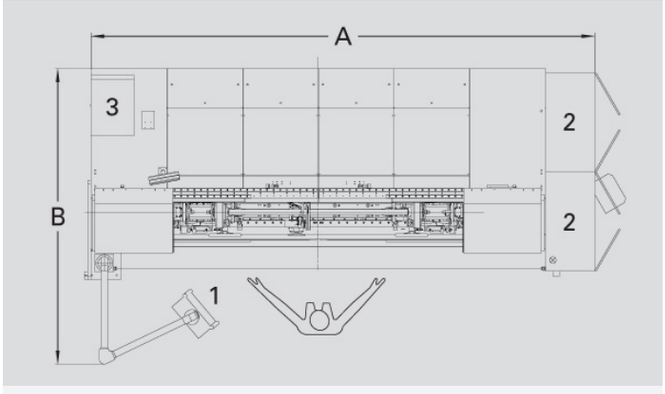

1 Operating panel
2 Switch cabinet
3 Welding box control

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Technical data at a glance		**Baureihe RBRQ200x**
Measuring unit		CAB 950
Semi automatic function sequence		•
Semi automatic welding system		•
Power clamping device		•
Crankshafts		
Flange diameter, max.	[mm]	225
Tube diameter	[mm]	40 - 140
Length	[mm]	400 - 3000 (500
Machine		
Width A	[mm]	6100
Depth B	[mm]	2600
Height C	[mm]	1550
Length of machine bed	[mm]	5000
Spindle speed, infinitely variable	[min -1]	2000 - 6000
Load carrying capacity	[kg]	4 - 40
Measuring uncertainty	[gmm]	5 - 10
Cycle time	[s]	80 - 110
Production volume	[St./h]	30 - 40
Air pressure	[bar]	5,5
Air consumption, approx.	[m3/h]	6,5
Power consumption	[kVA]	125

	Order No.	R0160100.02

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2) Per bearing pedestal, including adapter

3) According to DIN 1319, 95% probabi ity, with master shaft and excluding re-clamping error

4) Data non-binding, depending on respective equipment

5) Depending on initial unbalance and operator skill

o.r. On request

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