



Safe and simple handling

High measuring accuracy

Extensive protective devices and safety guards for:

- **Operating staff**
- **Machine**
- **Environment**

Modular design for various applications

Integration of correction units allow for measuring and correcting in one machine

Balancing Machines for Cardan Shafts

Series HGW

Range of application

The horizontal, hard-bearing balancing machines of series HGW are especially designed for the balan-

cing of cardan shafts in overhaul and repair shops and for small volume production.

Balancing Machines for Cardan Shafts HGW

Special features



HGW 30 B with option center bearing pedestal and 3 safety catching blocks

- Wide weight range
- Careful dimensioning of all machine components ensures long service life and high availability and operational safety
- Special spindle bearings cover wide speed range and high centrifugal forces
- Sliding spindle for a comfortable loading and unloading of the cardan shafts
- The dynamometer principle for permanent calibration allows large initial unbalances and guarantees high balancing accuracy
- Sophisticated safety concept

Extension



◀ Adapter flanges make the use of a variety of cardan shaft connections possible.

Welding and drilling can be integrated for unbalance correction after measuring. ▶



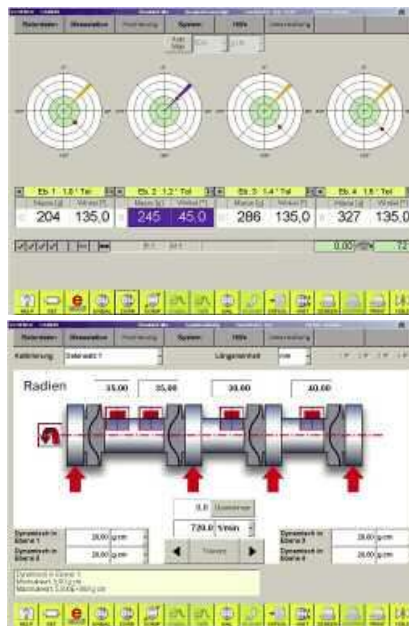
◀ 1 oder 2 additional bearing pedestals with roller bearings which can be replaced by mounting fixtures for joints of multiple piece cardan shafts.

Measuring unit CAB 920 D

The integrated Schenck measuring unit makes balancing a self-explanatory task:

- Softkeys and a sophisticated window technique guide the operator simply and easily through the balancing procedure.
- Clear display of information on the large colour monitor
- The balancing procedure may start after the input of only a few rotor data. No calibration runs are necessary within the specified range.
- Quick change-over for different rotor types
- The angular protractor makes a quick and accurate indexing of the correction position possible.
- The software "Compensation index balancing" automatically subtracts the unbalance components of spindles and flanges from the

overall unbalance. Only the unbalance of the rotor to be balanced is displayed



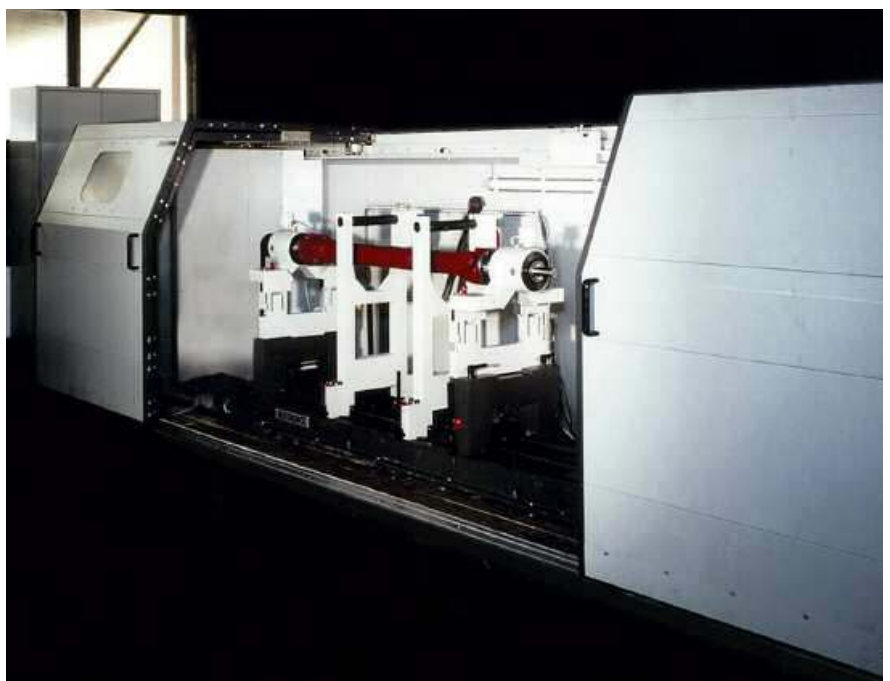
◀ With measuring unit CAB 920 D balancing of multi stage cardan shafts becomes a matter of routine.

◀ Entering of rotor data in the Easy Mode

Protective devices and safety guards

Series HGW is characterised by a comprehensive safety concept for man and machine:

- A bearing force monitoring system automatically switches off the machine drive in case of inadmissibly high vibrations at the spindle bearing.
- Stable safety catching blocks are designed to prevent damage to man and machine in case of failure (e.g. cardan shaft fracture).
- Protective guard of safety class C 600 as per ISO 7475 as protection against projected parts, such as e.g. correction weights.



HGW 30 B with 2 safety catching blocks and protective guard of safety class C 600

Important data at a glance

		HGW 20 B	HGW 30 B	HGW 40 B
Spindle bearing (for cardan shafts)				
Cardan shaft weight max.	kg	180	450	1000
Balancing speed max.	min ⁻¹	100 - 5000		

Typical field of application

Low weight / high speed		•	•	•
Mean weight / mean speed			•	•
High weight / low speed				•
Schenck measuring unit		CAB 920D		
UMAR*	gmm/kg	0,5 (no better than 25 gmm)		
Centre line height	mm	800		
Rated power	kW	4	4	7,5
Type of drive		Belt drive		
Supply connection		400V × 3 phase × 50/60 Hz		

* Minimum achievable residual unbalance per balancing plane



Series HK

Our series HK perfectly fits your "Heavy Duty" applications (high weight and speed ranges).



Balancing and Diagnostic Systems

SCHENCK RoTec GmbH
Landwehrstraße 55
D-64293 Darmstadt

Tel.: +49 (0) 61 51 - 32 23 11
Fax: +49 (0) 61 51 - 32 23 15
eMail: rotec@schenck.net

Do not hesitate to contact us via the mentioned major facilities. For further informations please refer to www.schenck-rotec.com

The **DÜRR** Group