



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

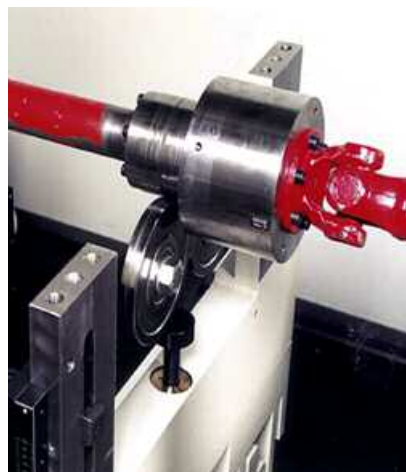
- Wide weight range
- Careful dimensioning of all machine components ensures long service life and high availability and operational safety
- Special spindle bearings cover wide speed range and high centrifugal forces
- Sliding spindle for a comfortable loading and unloading of the cardan shafts
- The 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. ▶



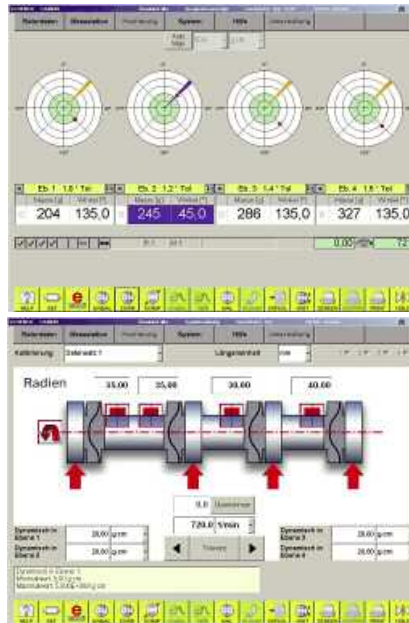
◀ 1 oder 2 additional bearing pedestals with roller bearings which can be replaced by mounting fixtures for joints of multiple piece cardan shafts.

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



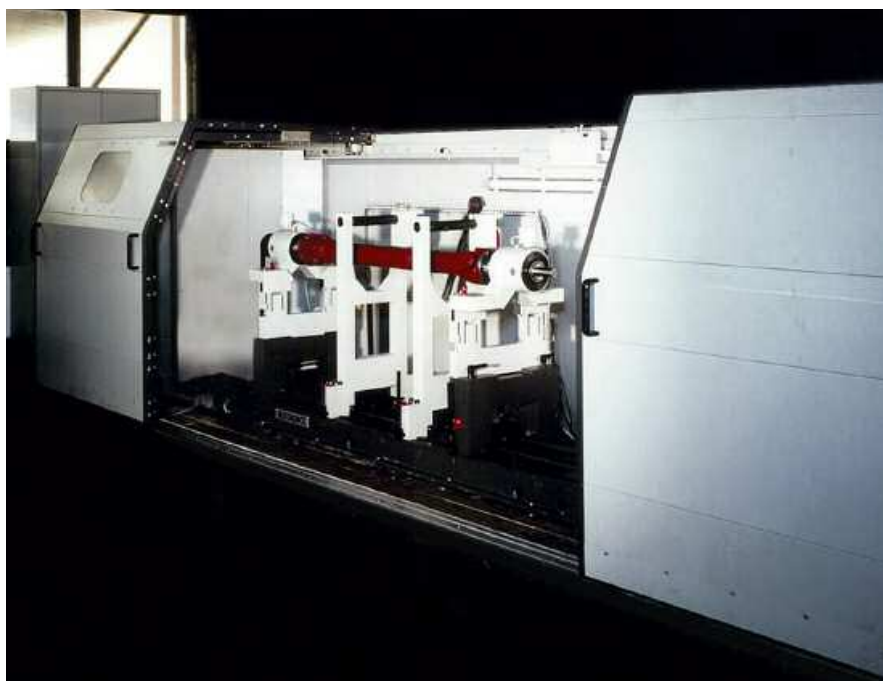
◀ With measuring unit CAB 920 D balancing of multi stage cardan shafts becomes a matter of routine.

◀ 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

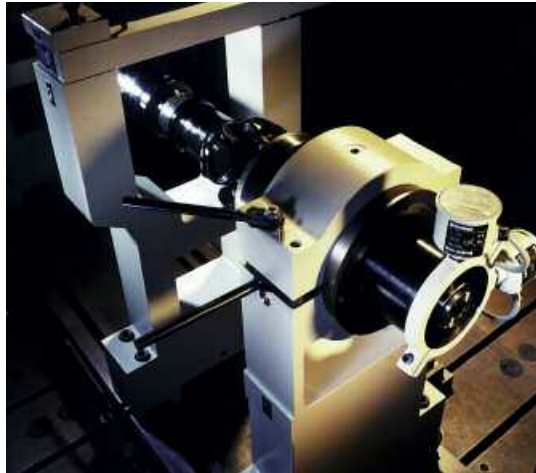
Important data at a glance

| | | 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

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