

Series HGW Balancing Machine for Drive Shafts



- Simple and safe operation
- Modular design for various applications
- Comprehensive protective and safety equipment for operators, machine and environment
- High measurement accuracy through microprocessor-controlled measuring unit

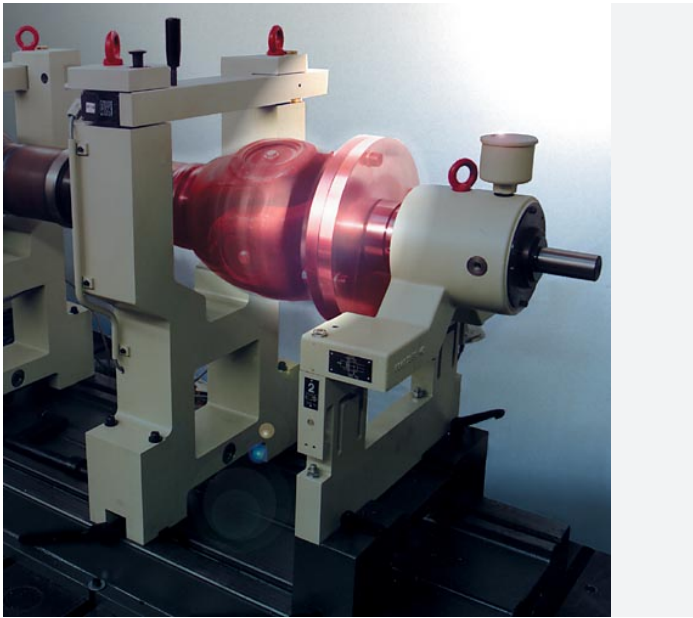
Range of application

Horizontal, hard-bearing balancing machines series HGW are designed especially for low- and high-speed balancing of drive shafts in overhaul, repair operations and small production lots. A modular design provides flexibility to change or add components for other balancing tasks such as balancing electric armatures, drums, etc.

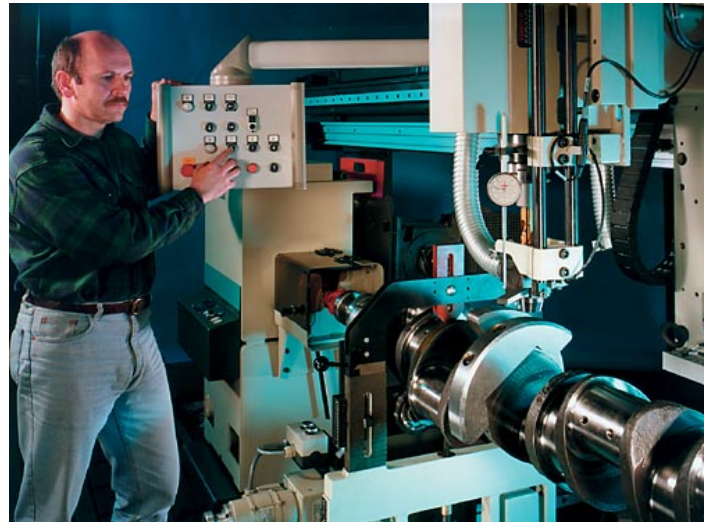
Design

Hard-bearing special balancing machine with horizontal rotor axis and semi-automatic operation. The machine consists basically of: machine base, support pedestals with spindle bearings and vibration sensors, belt-drive with drive motor, control cabinet with measuring unit and drive controls, safety brackets and protective enclosure of the class C according to ISO 7475.

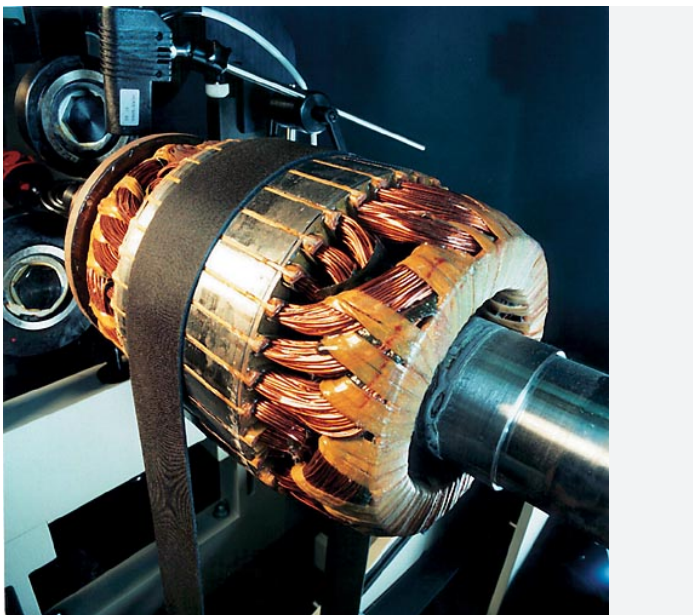
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The dimensioning of the machine components permits balancing of a large rotor weight range and guarantees high availability, operational safety and long service life. Special spindle bearings cover a large speed range and withstand high centrifugal forces, typical because of radial and axial clearances common in drive shafts. The dynamometer principle for permanent calibration guarantees high balancing accuracy and can accommodate large initial unbalances.



Systems for correction of unbalance, e.g. through welding of weights or drilling can also be integrated. Through the use of adapter flanges a number of different drive shaft connections to the spindles can be achieved.

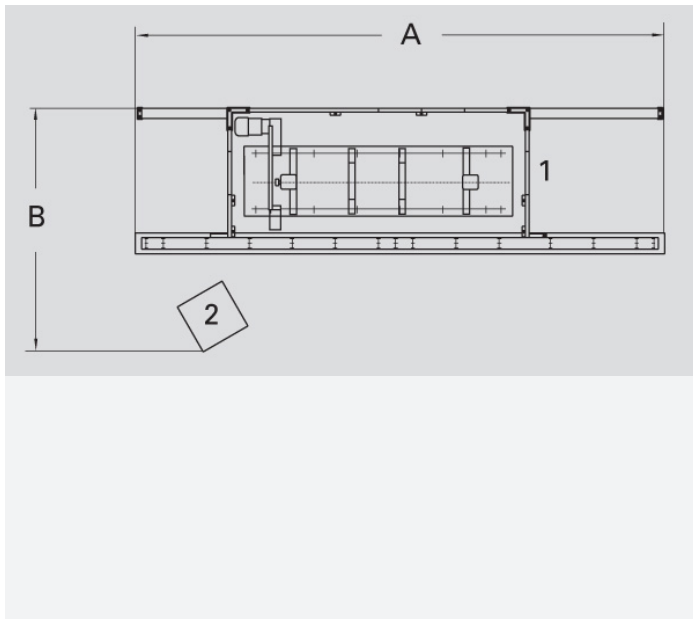


The modular design of series HGW balancing machines also permits balancing of rotors with their own shafts, e.g. electric armatures, drums, etc., through additional roller bearing carriages.



Balancing machines series HGW come with an extensive range of safety equipment to prevent injury to operators and damage to the machine: A bearing force monitoring system automatically disconnects the machine drive as soon as excessive vibrations are measured at the spindle bearings. Rugged and stable safety devices designed to prevent injury to operators and damage to the machine in case of an accident (e.g. rupture of a joint). The protective enclosure of class C 600 acc. to ISO 7475 for protection against accidental release of correction weights.

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1 Balancing machine 2 Switch cabinet
Plan view (non-binding example)

Series HGW Balancing Machine for Drive Shafts

Technical data at a glance		HGW 20 B	HGW 30 B	HGW 40 B
Measuring unit				CAB 700
Spindle bearings for drive shafts		•	•	•
Safety devies		•	•	•
Protective enclosure		•	•	•
Belt drive		•	•	•
Rotor				
Weight, max.	[kg]	180	450	1000
Diameter	[mm]	1600	1600	1600
Length	[mm]	2200	2200	2200
Machine				
Width A	[mm]	5500	5500	5500
Depth B	[mm]	2400	2400	2400
Height C	[mm]	2300	2300	2300
Balancing speed range	[min -1]	100 - 5000	100 - 5000	100 - 5000
MARU	[gmm/kg]	0.5 (not better than 25 gmm)	0.5 (not better than 25 gmm)	0.5 (not better than 25 gmm)
Air pressure	[kPa]	600	600	600
Drive power	[kW]	4	4	7.5
	Order No.	R0150100.01	R0150200.01	R0150400.01
	Order No.	R0150101.01	R0150101.01	R0150101.01
Report printer	Order No.	R0150102.01	R0150102.01	R0150102.01
Software options	Order No.	R0150103.01	R0150103.01	R0150103.0
Center pedestal for 2-piece shafts	Order No.	R0150104.01	R0150204.01	R0150404.01
Roller-bearing carriages for rotors with their own journals	Order No.	R0150105.01	R0150205.01	R0150405.01
Drill correction	Order No.	R0150106.01	R0150206.01	R0150406.01
Welding correction	Order No.	R0150107.01	R0150207.01	R0150407.01
Spindle adapter	Order No.	o.r.	o.r.	o.r.

2) Minimum achievable residual unbalance per plane

3) Data non-binding, dependent on repective equipment supp ied

o.r. On request