CAROBA® Balancer Universal 500

The universal balancing stand for high precision

High-precision and flexible universal test bench

The Universal 500 balancer is the big brother of our OnDesk 500 - a fully industrial balancing system. This balancing machine is particularly suitable for users who want a machine with control cabinet, user interface on support arm, protective housing and many options for daily balancing in production or laboratory. Robust, flexible and fully compatible with all our balancing systems. All PMB UMS unbalance measuring equipment is compatible with this balancing machine. Preferably we use our flagship, the UMS PRO-i with integrated industrial PC. Automation tasks can be integrated, feedthroughs for your own supply lines are available. Together with the OnDesk 500, we constantly use this Universal 500 in the PMB contract balancing, the precision is outstanding and impressive.

Bearing blocks and belt drive

In this setup variant, roller blocks or plain bearing blocks are mounted on the clamping elements of the system rail. The drive is realized with round belts. The adaptation to different workpieces can be carried out quickly
 - the experience of PMB contract balancing has been integrated into the development of this system.
Use it to balance components without bearings and drives, e.g. shafts, electric motor rotors, turbo rotors, etc...
On request positioning drive is integrated.

Balancing platform for assemblies

Instead of the bearing blocks, you can also clamp your assemblies or your own mounting fixtures directly. If your workpiece has its own bearing and drive (e.g. spindles, electric motors, small blowers/fans...), you can set it up in just a few minutes.
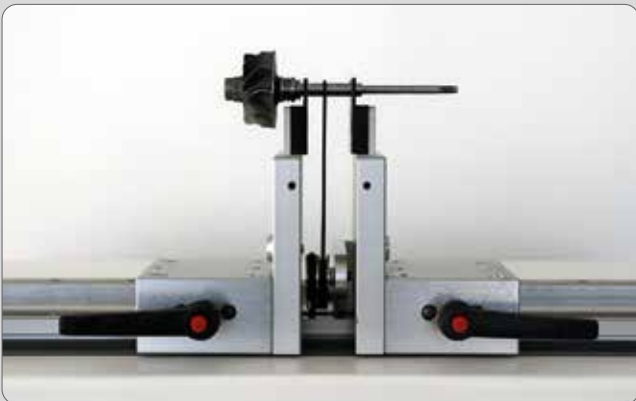The drive control of the balancing stand takes over the control of your own drive unit. This is done via the 0-10 VDC setpoint output.
Other drive types, e.g. an air drive, can also be controlled.
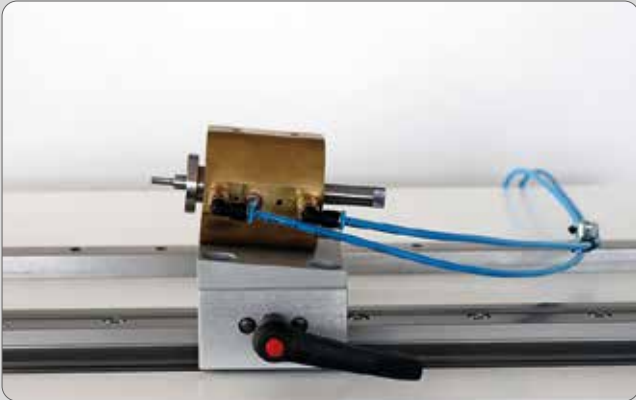
PMB air bearings for high-precision shaft balancing

Small electric rotor on plain bearing prisms


Turbo rotor on plain bearing prisms

Runnable assembly directly mounted

Everything you need for balancing

The CAROBA Balancer Universal is as a part of a modular series a complete test bench for industrial requirements. All components are easily accessible and neatly integrated into the chassis. The protective housing enables safe balancing even of fast-running components. The integrated PC system is very easy to operate via monitor / mouse / keyboard.

Your advantages

- Universally and quickly adaptable for different balancing objects

- Bearing blocks for shafts, electric rotors...

- Balancing platform for assemblies, spindles...

- Different drive variants possible (belt drive, positioning drive, air nozzles etc.)

- Future-proof through hardware and software updates

0,300
0,250
0,200
0,150
0,100
0,050
0,000

180

270

1330

1700

1990

989

740
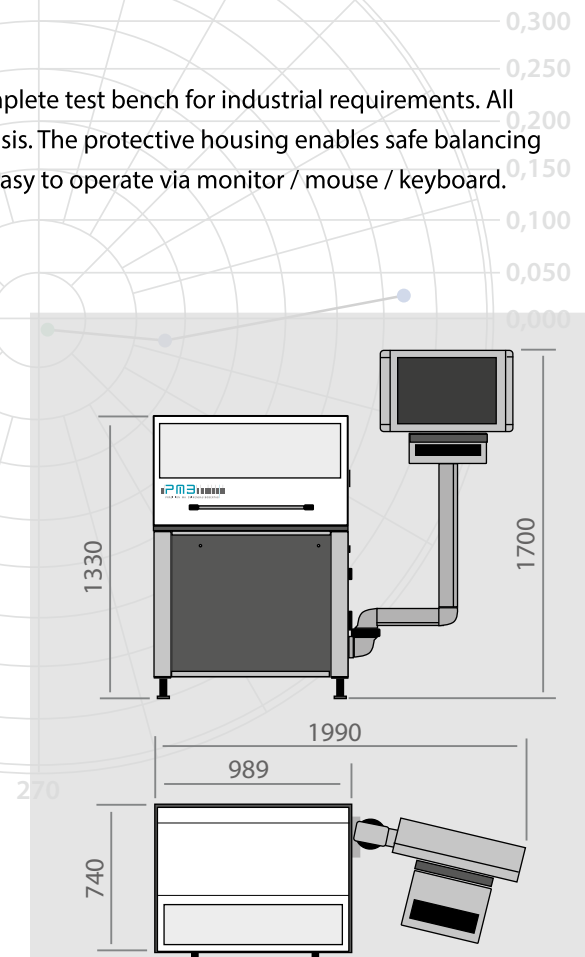
The Art of Balancing

The company PMB-Präzisionsmaschinenbau Bobertag GmbH was founded in 2008. Since then we have achieved a technological leadership in the field of ultra-precision balancing with our own measuring technology, software and complete balancing systems. From development and production to consulting, PMB stands for the highest quality in balancing technology. We work hand in hand with you. We are aware that we contribute an important part to the quality of your products. We support you in all aspects of your tasks and support you in planning and implementation with our know-how and our experience, which we have acquired in a wide field of applications. We are particularly proud of our balancing service - because our partners entrust us with their most important items: Their products!

We are certified according to DIN EN ISO 9001:2015

Services and solutions

- Balancing machines

- Balancing systems

- Balancing and analysing software

- Balancing service

- Operator training

- After Sales Service

- Research and development

- Consulting

PMB
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