



mechatronics – made in switzerland

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the mechatronics
since 1967

Balancing System eb2000

For fully automatic or manual balancing
of grinding wheels



Balancing system eb2000



The eb2000 offers either manual or fully automatic balancing of grinding wheels. A balancing head, which is either built onto the grinding spindle end or within a hollow spindle, is controlled by a control unit. Vibrations from the grinding wheel are recorded with a vibration transducer and displayed on the controller. A collector connects the balancing electronics with the rotating balancing head. Brush type or maintenance-free no-contact collectors are available.

The manual balancing controller allows to position the two balancing weights in the balancing head via push buttons. Thus searching for weights positions which reduces the vibrations to the required levels.

The automatic balancing controller seeks the weights positions after starting the balancing cycle via push button input. Parameter settings determine the balancing quality and the specific machine properties. The automatic unit allows also manual balancing. To facilitate controller mounting options the cables may be positioned either on the upper or bottom side of the unit.

Further advantages of the eb2000 system

- Eliminates the elaborate static balancing
- Optimizes the grinding result
- Safeguards the spindle bearings
- Increases grinding wheel life
- Reduces down time
- Records the balancing status
- Continuous monitoring of machine vibrations
- Continuous spindle rpm display
- Simple and quick installation and initial operation
- Reliable and maintenance-free

Components for the eb2000 system

- Balancing controller eb2000 (manual or automatic)
- Balancing heads in many sizes (external or internal)
- Wire-bound or no-contact collectors
- Vibration transducer (with magnet or mounting flange)
- Cables to connect components
- Holder (for table top or wall mounting)
- Machine specific adapter flanges

Technical Data

- | | |
|----------------------------|--------------------------------|
| - Power supply | Switchable 115VAC
or 230VAC |
| - Power consumption | maximum 45W |
| - Rpm range | 500 to 10'000 rpm |
| - Vibration display option | [μ m] or [μ m/s] |
| - Protection | IP 65 |
| - Controller weight | 2.5kg |
| - Controller dimensions | 200/71/200 mm (WxDxH) |