

mechatronics – made in switzerland

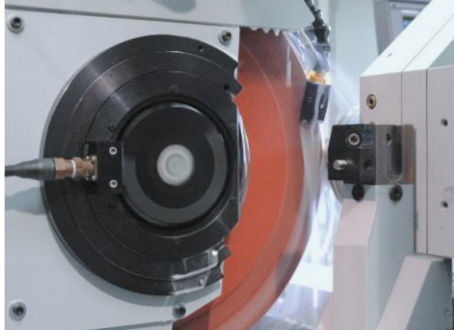
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the mechatronics  
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## Balancing and Structure-Borne Noise System eb6001

For balancing grinding wheels,  
to increase production,  
and monitor grinding processes



## Balancing and structure-borne noise system eb6001



The eb6001 is a balancing and structure-borne noise system for highest demands. It is used for balancing grinding wheels, to increase production, and to monitor grinding processes. Short production cycles and/or high accuracy requirements are areas where this unit is utilized. The eb6001 is highly sensitive and is able to recognize the contact between part and grinding wheel within a few micrometers infeed. This reduces the air grinding time considerably. During wheel dressing larger savings in time and grinding wheel material are obtained. The eb6001 assists further in the setup of parts and grinding wheels.

An electrically isolated interface allows to communicate with the machine controller. The machine controls therefore the balancing aspect without operator activity. The eb6001 may be incorporated into a 19" rack. Also a cable based remote control is available to better integrate the unit with the machine.

The eb6001 is based on the well proven eb7000 series balancing and structure-borne noise systems. The operation and the visual aspect of the eb6001 correspond to the eb7000 series. The dimensions, the mounting holes, and the connectors are identical to the eb7000. The only difference is a higher sensitivity of the structure-borne noise system and that it offers also a wire-bound ultra-sound sensor connection.

The electronic of the eb6001 is made with modern SMD components. This unit is especially suited to replace older eb7000 units. Other existing components need not to be replaced as long as they are still functioning. The eb6001 is also a valid alternative to our other products for new installations.

### Further advantages of the eb6001 balancing 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
- Continuous monitoring of the structure-borne sound
- Simple operation
- Reliable and maintenance-free

#### Components for the eb6001 system

- 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
- Machine specific adapter flanges
- Wire-bound ultra-sound sensors
- No-contact ultra-sound sensors
- Customer specific ultra-sound sensors

#### Technical Data

- |                         |                          |
|-------------------------|--------------------------|
| - Power supply          | 100 to 240VAC            |
| - Power consumption     | maximum 50W              |
| - Protection            | IP 65 (built into panel) |
| - Controller weight     | maximum 4.5kg            |
| - Controller dimensions | 217/253/140mm (WxDxH)    |