

mechatronics – made in switzerland

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the mechatronics
since 1967

Balancing System ebm100

To efficiently balance grinding wheels



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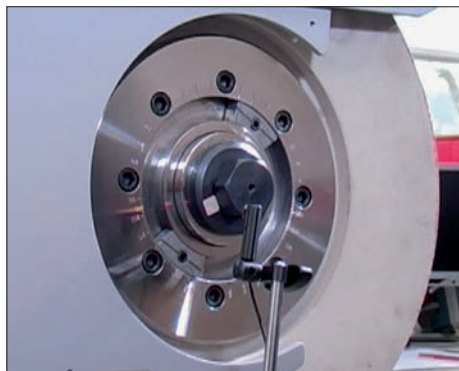
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Auswuchtsysteme
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Balancing System ebm100



The balancing processor ebm100 calculates the weight positions on the grinding wheel flange for optimum balancing results. Only two weights are needed. Step by step, the user is guided through the balancing run. Each step position is indicated by an LED.

Brief instructions, selected from a variety of language inserts, are shown in the window of the ebm100. The time needed for a balancing process is about 3 minutes. Machine-specific data is collected during the two reference measurements which are necessary for the calculation of the weight positions.

The processor displays the weight positions as an angle value in degrees. A matching 360° angular scale to be mounted on the wheel flange may be supplied on request. To complete a system a vibration sensor for measuring vibrations and a rpm sensor to measure spindle speed is needed. All components are available from Elaso as individual components or as a complete set.

Advantages of the ebm100:

- Low-cost method for accurate balancing of grinding wheels
- The laborious and time consuming manual balancing on a balancing rig is eliminated
- Optimizes the grinding result
- Protects the spindle bearings
- Minimizes downtime
- Continuous monitoring of unbalance and spindle speed (rpm)
- Easy to use
- Reliable and maintenance free

For a balancing system ebm100 the following components are available

- Balancing processor ebm100
- Vibration transducer
- Tachometer sensor
- Angular scales
- Plastic case
- AC adapter



Specifications

- | | |
|-----------------------------|-----------------------------|
| - Power consumption | max. 20 W |
| - Spindle rpm range | 500...9990 U/min. |
| - Vibration measuring range | 0-50 µm, in 0.01 µm steps |
| - ebm100 processor weight | approximately 700g (1.5 lb) |

Versions

- Table top housing for 24Vdc, item number: 20112
- Rack module ½ 19-Inch, 3HE, for 24Vdc, item number: 20588
- ebm100 mobile system in plastic case complete, item number: 20918

Dimensions ebm100

- Mobile: 240 mm (9.5") x 35 mm (1.4") x 130 mm (5.1") (WxDxH)
- 19": 213 mm (8.4") x 45 mm (1.8") x 128.7 mm (5") (WxDxH)