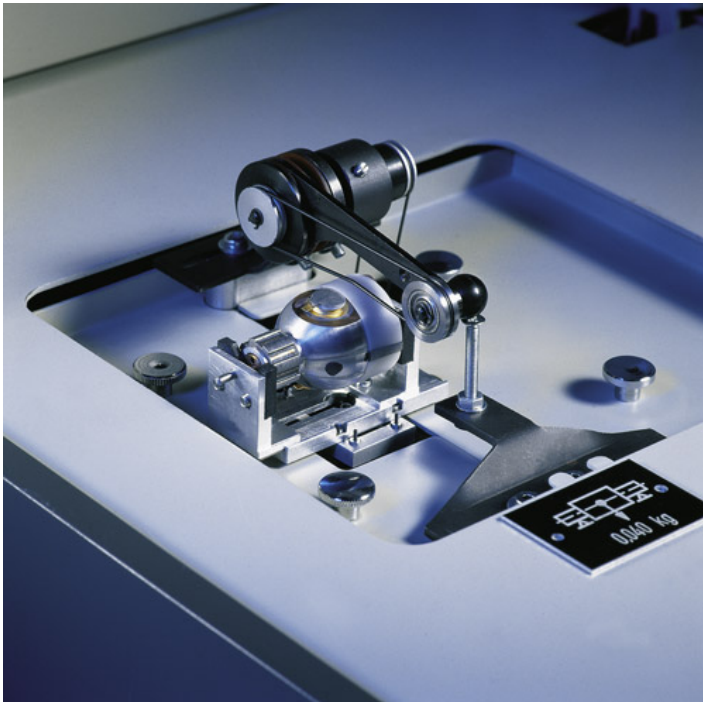


RT 01 B Balancing Machines for Small Rotors and Complete Assemblies



- Highest balancing accuracy with soft-bearing design for smallest rotors
- Complete workplace designed for standing or seated operator
- Short change over times
- Directly usable at changing locations without foundation and without screwing up

Range of application

Universal balancing machines series RT are best suited for extremely light rotors such as dental turbines, textile false twist spindles, non-ferrous armatures, rolling-elements, etc. for which the highest level of balancing tolerance is required. They are conceived for use in batch production or in research and development.

The machine is designed for a standing or seated operator and can be used at varying locations.

Change over to other rotor types is possible in very short time through manual action.

Design

Displacement measuring, horizontal balancing machines of tabletop design for standing or seated operator with semi or fully automatic operating sequence.

The machine consists basically of the following main components: work table, mechanical balancing unit with tangential belt drive, measuring unit and control cabinet.

If the machine is to be used for assemblies, the two support pedestals are connected by a frame. An adapter and clamping arrangement is mounted onto this frame for supporting the rotors.

Sequence of operations

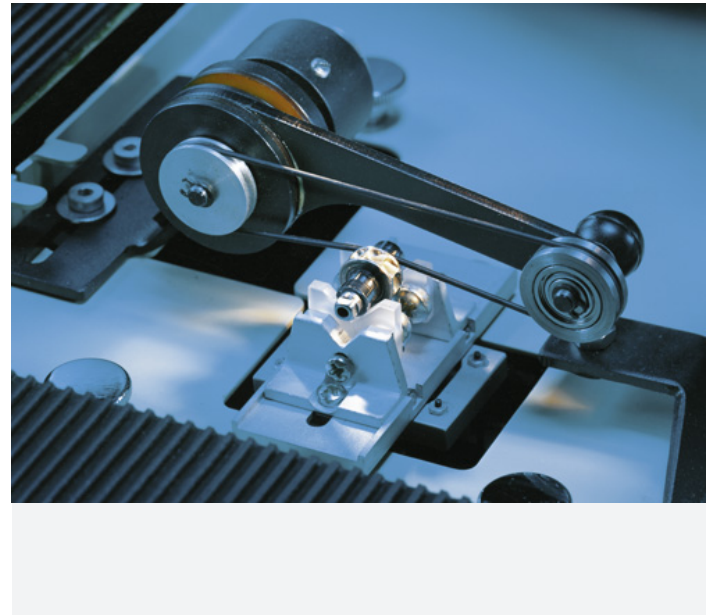
- Manually load the rotor onto the support pedestals and belt drive
- Close the protective device (if necessary) and start the automatic measuring run: accelerate, measure and display the unbalance on the measuring unit, brake. The display is retained after the measuring run stops.
- Open the protective device, manually correct the unbalance (if required).
- Check the result of the unbalance correction (achievement of the tolerance is displayed by the measuring unit) and unload the rotor.

RT 01 B

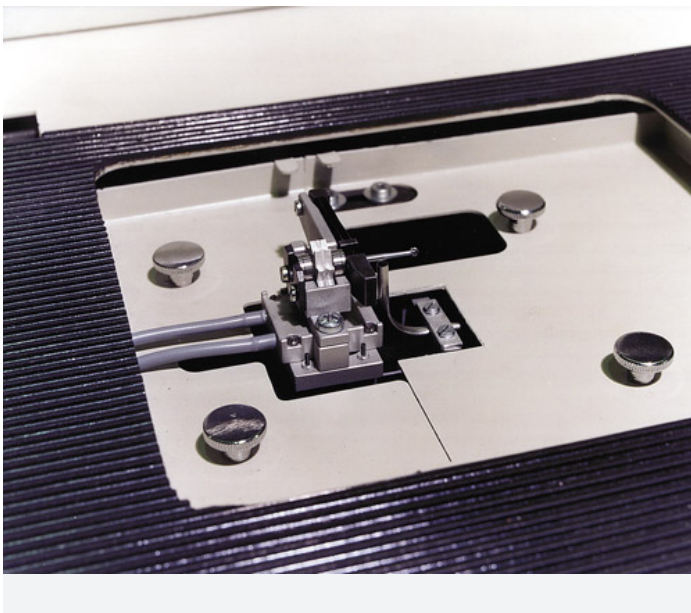
Balancing Machines for Small Rotors and Complete Assemblies



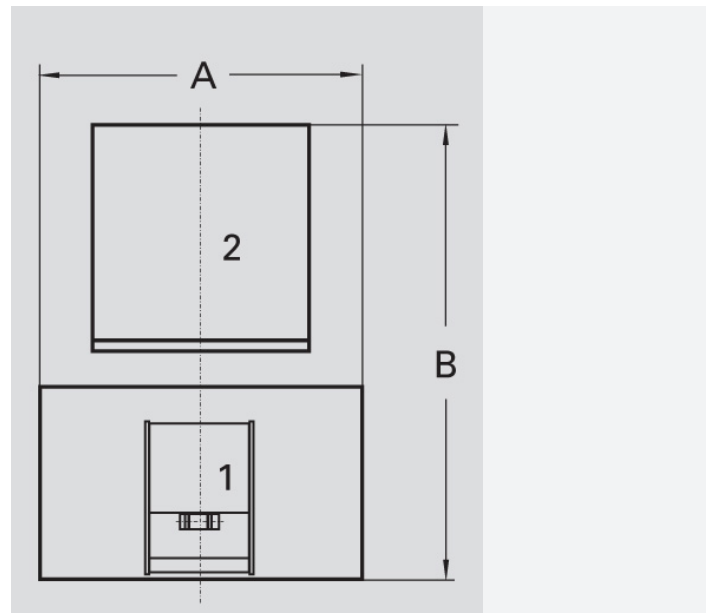
The unbalance is frequently corrected manually by addition of weight, for example with quickdrying, two-component putty or weights. If the unbalance is to be corrected by removing weight, methods such as grinding, milling or drilling can be cost-effectively used. For each of these correction methods specially adapted correction devices can be supplied or added to the machine by the end-user.



Turbines, textile false twist spindles and small non-ferrous armatures present a special balancing task. Because of the normally high operational speeds extremely small unbalances must be accurately measured. The solution to this requirement is a displacement measuring machine with tangential belt drive, combined with a measuring unit of the highest sensitivity.



With extremely small rotors, such as this dental turbine, there is no possibility to use a belt drive because the influence on the measurements will be too large. In this case a compressed air drive that operates without making contact with the rotor is ideal. Through a well-designed layout of the air drive short acceleration and braking times can be achieved.



- 1 Measuring station
- 2 Measuring device and controls

Plan view (non-binding example)

RT 01 B

Balancing Machines for Small Rotors and Complete Assemblies

| Technical data at a glance | RT 01 B |
|----------------------------|---------|
|----------------------------|---------|

| | |
|-----------------------------------|---------|
| Measuring unit | CAB 920 |
| Belt drive | • |
| Protective device as per ISO 7475 | • |

| Rotor data | | |
|------------|--|--|
|------------|--|--|

| | | |
|--------------------------|------|--------|
| Weight, max. | [g] | 1 - 40 |
| Diameter, max. | [mm] | 20 |
| Length | [mm] | 6 - 45 |
| Bearing journal diameter | [mm] | 1 - 6 |

| Machine | | |
|---------|--|--|
|---------|--|--|

| | | |
|--------------|------|-----|
| Width A | [mm] | 900 |
| Depth B | [mm] | 600 |
| Height C | [mm] | 875 |
| Power supply | [V] | 230 |
| Drive power | [W] | 30 |

| | |
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| Order No. | R0130100.01 |
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o.r. On request