

## R 1 B, RS 0 - 1 Balancing Machines for Small Rotors and Complete Assemblies



- Complete workplace designed for standing or seated operator
- Highest balancing accuracy through super-critical support pedestals and digital measurement processing
- Short change-over times, simple and safe operation
- Modular design for various applications

### Range of application

Universal balancing machines series R and RS are especially suitable for very small work-pieces such as small armatures, miniature ventilators and complete assemblies, when high balancing tolerances at high speed must be achieved. They are used in small production lots as well as research and development applications.

They can be used at varying locations and the change-over for other rotor types is possible in a short time.

### Design

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

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.

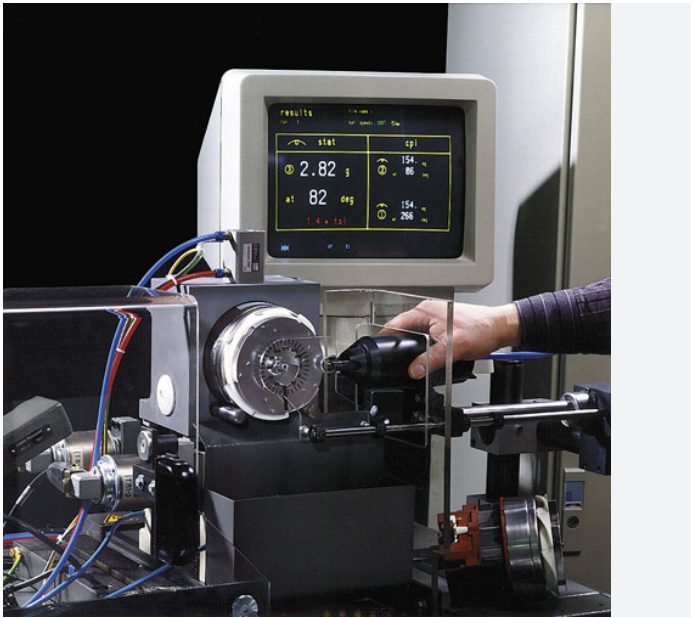
The drive can be by tangential, under slung, over slung, compressed air or, in case of complete assemblies, by an integrated supply for self-drive.

### Sequence of operations

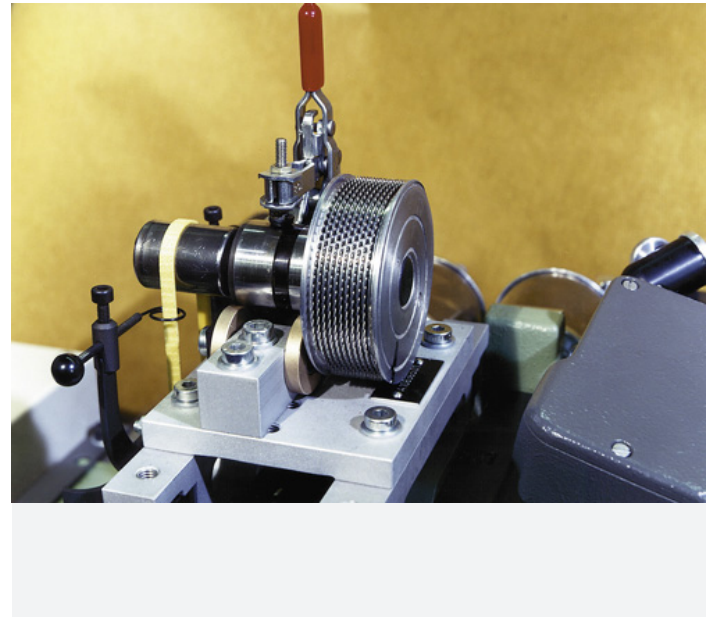
- Manually load the rotor onto the pedestals and the tangential belt drive. With an over slung belt drive clamp the belt drive bracket.
- Close the protective device and start the automatic measuring run: accelerate, measure and display the unbalance on the measuring unit, brake. The display is retained after the measuring run ends.
- Open the protective device, manually correct the unbalance (if required).
- Check the residual unbalance (the measuring unit displays if the tolerance is achieved) and unload the rotor.

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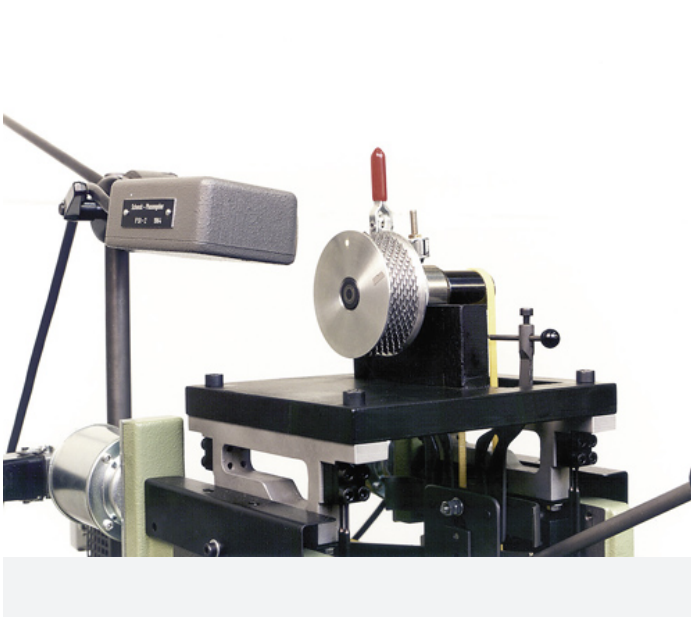
## Balancing Machines for Small Rotors and Complete Assemblies



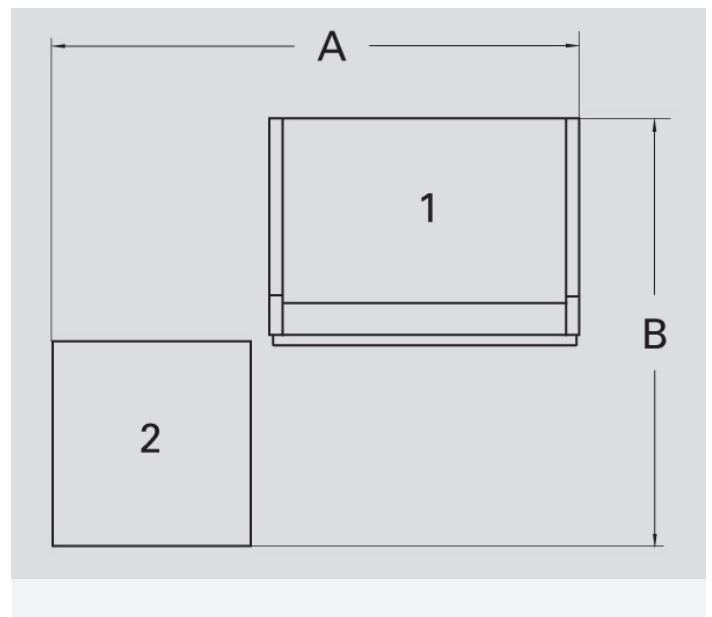
When small rotors or, as above, a complete assembly is to be balanced to a tight tolerance in small to medium production lots, a displacement measuring balancing machine is the correct solution. If unbalance correction is integrated into the machine, the handling of the rotor can be simplified significantly and cost can be reduced. Depending on rotor design, additive or subtractive methods of unbalance correction can be employed.



The modular design of Schenck RoTec horizontal balancing machines offers standard modules for all common applications. Solutions for special cases can also be offered. This rotor for textile machines is mounted on special roller carriages because of the very small distance between the bearings.



With RS support pedestals the standard journal or roller bearings can be replaced in minutes by an adapter platform and clamping device. Balancing of rotors in their own bearings and at almost operational condition is no problem.



1 Balancing machine  
2 Switch cabinet  
Plan view (non-binding example)

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## Balancing Machines for Small Rotors and Complete Assemblies

Technical data at a glance		RS 0	RS 1	R 1
Measuring unit		CAB 700	CAB 700	CAB 700
Self-drive		•	•	
Belt-drive, BU1		•	•	•
Automatic indexing with belt drive	•	•	•	
Shroud acc. to ISO 7475		•	•	•
<b>Rotor</b>				
Weight, max.	[kg]	3	10	6
Diameter, max.	[mm]	o.r.	o.r.	360
Length, max.	[mm]	900		
Journal diameter	[mm]	-	-	3 - 22
<b>Machine</b>				
Width A	[mm]	980	980	980
Depth B	[mm]	850	850	850
Height C	[mm]	1520	1520	1520
Pedestal height	[mm]	160	160	-
Balancing speed	[min <sup>-1</sup> ]	variable	variable	variable
Measuring time	[s]			
Drive power (belt drive)	[W]	130	130	130
Power requirement	[V]	230	230	230

	Order No.	R0120100.01	R0120200.01	R0120300.02
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	Order No.	R0120101.01	R0120201.01	R0120301.02
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Report printer	Order No.	R0120103.01	R0120203.01	R0120303.02
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Belt drive, BU 1	Order No.	R0120104.01	R0120204.01	-
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2) Power configuration: 3 / PE AC 50Hz 400 V +6 / -10%

o.r. On request