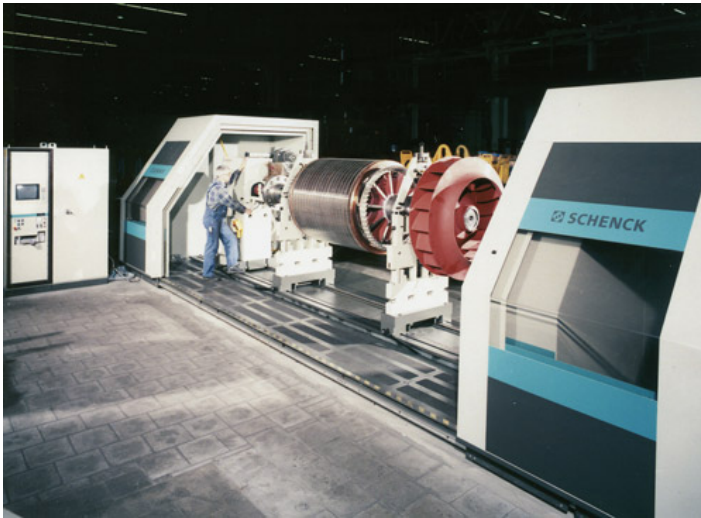


## HM 6 - HM 80 Horizontal Balancing Machines



- Universally applicable through modular design
- Safe handling through economic design concept
- Full range of safety equipment for all protection classes
- Easy change-over to different rotors

### Range of application

Universal balancing machines series HM6-HM80 are conceived for precise balancing of both rigid and flexible rotors.

Typical applications are:

- Blowers and fans for a variety of industries
- High-speed and low-speed rollers for paper and thin sheet production
- Electrical short-circuit armatures and generators for the electrical industry
- Separators / centrifuges for water processing

### Design

Due to their modular structure, these machines can be adapted easily to the task in hand. The length of the machine bed is dependent on the length of the rotor, the required height of the bearing pedestals is determined by the rotor diameter. If the rotor is mounted on its own bearing journals, these will be supported by roller carriages. Depending on the requirements imposed by the rotor, sleeve bearings may also be used.

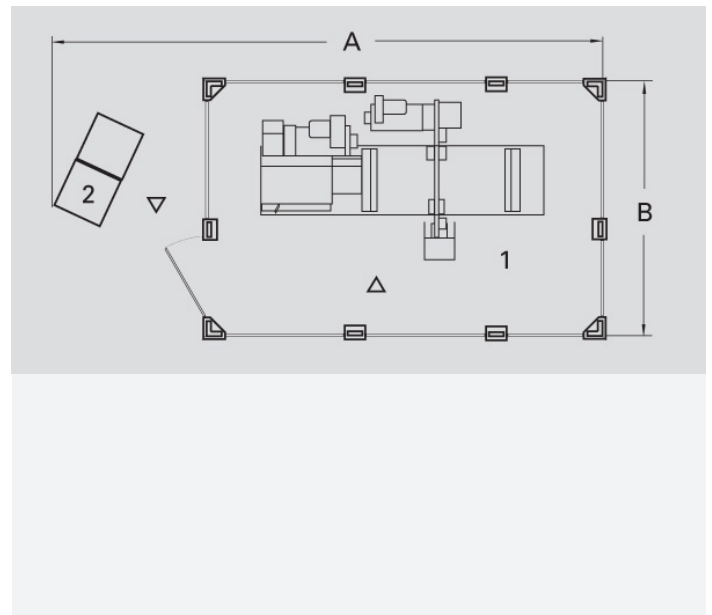
Rotors requiring high torques are driven through variable-speed gearboxes and universal joint shaft. Lightweight rotors with smooth surfaces may be driven with the help of a belt

drive system.

### Special features

- With the appropriate machine design and a suitable protection device the machines can also be used for high-speed balancing
- Bearing force monitoring for automatic shut-down in case of overload
- Contact-free measurement of concentric running of rollers
- Graphical display of acceleration curve with 1f and 2f measurement (CAB 920)
- Wide range of supplementary modules, e.g. for mass correction

# HM 6 - HM 80 Horizontal Balancing Machines



1 Balancing machine  
2 Controls and measuring device  
Plan view (non-binding example)

# HM 6 - HM 80 Horizontal Balancing Machines

Technical data at a glance		HM 6	HM 60	HM 7	HM 70	HM 8	HM 80
Measuring unit		CAB 700	CAB 700	CAB 700	CAB 700	CAB 700	CAB 700
Roller carriages		•	•	•	•	•	•
Universal-joint shaft drive		•	•	•	•	•	•
Underslung belt drive BU		•	•	•	•	•	•
Protective device as per ISO 7475		•	•	•	•	•	•
<b>Rotor</b>							
Weight, max.	[kg]	12 500	20 000	32 000	50 000	125 000	250 000
Diameter	[mm]	2100	2100	2800	2800	3600	3600
Bearing distance, max	[mm]	3150	4650	5050	5050	5800	5800
Bearing journal diameter	[mm]	40 - 320	50 - 400	60 - 500	70 - 600	-	-
<b>Machine</b>							
Width A	[mm]	4650	5100	6600	6600	7800	7800
Depth B	[mm]	4050	4050	4050	4050	4500	4500
Height C	[mm]	2000	2000	2000	2000	2000	2000
Balancing speed, min.	[min <sup>-1</sup> ]	120	120	120	120	120	120
MARU	[gmm]	30	40	64	80	160	240
Air pressure	[kPa]	600	600	600	600	600	600
Power supply	[V]	400	400	400	400	400	400
Drive power	[kW]	22	37	55	75	90	110

Order-Nr.	R0061100.01	R0061200.01	R0061300.01	R0061400.01	R0061500.01	R0061600.01
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Order-Nr.	R0061101.01	R0061201.01	R0061301.01	R0061401.01	R0061501.01	R0061601.01
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Software options	Order-Nr.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
Underslung belt drive	Order-Nr.	R0060203.01	R0060203.01	R0060203.01	R0060203.01	-	-
Tangential belt drive BT	Order-Nr.	-	-	-	-	-	-
Various roller carriage	Order-Nr.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
Report printer	Order-Nr.	R0061105.01	R0061205.01	R0061305.01	R0061405.01	R0061505.01	R0061605.01
Mass correction system	Order-Nr.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

2) Other data on request

3) Main configuration: 3 / PE AC 500Hz 400 V +6 / -10%

4) Minimum achievable residual unbalance per balancing plane

A large industrial machine with a prominent rotating drum and various mechanical components, set in a factory environment.

HM 6 - HM 80  
Horizontal Balancing Machines

5) Alternatively or additionally

o.r. On request