

RMCM

Robotic process of mass standard comparison in a compact design

- Readability of 0.1 ug
- Mass standard magazine with up to 120 positions
- Function of automatic mass standard dissemination

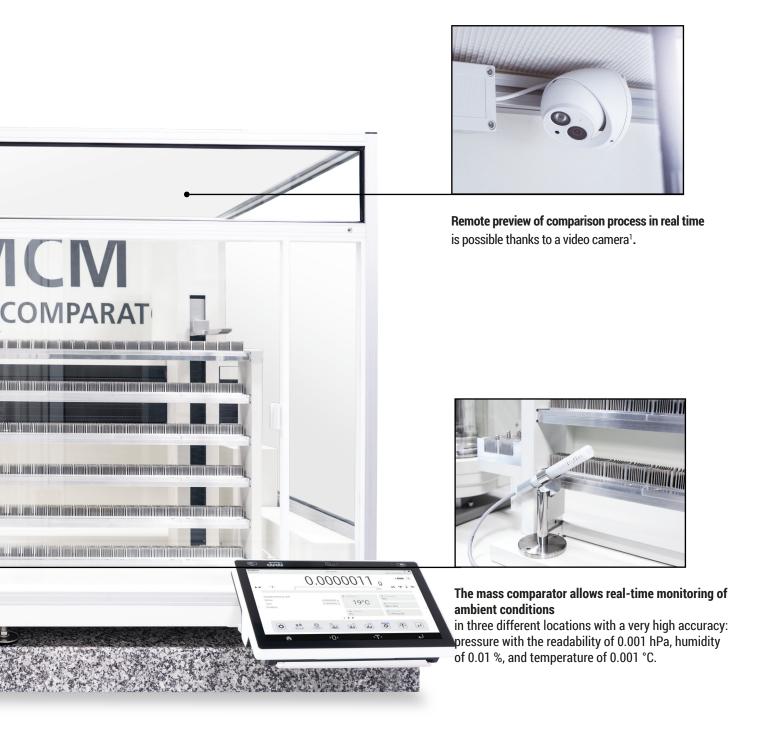


Automated comparison process

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Combination of the mass comparator and the robotic transport system

has resulted with development of a new RADWAG mass comparator, the RMCM. The device is unique due to its compact dimensions and aesthetic look.

This combination brings a number of advantages:

- reduction of air drafts and vibrations from a robotic system in the course of comparison,
- minimised human error risk,
- compact dimensions,
- · easier maintaining of stable environmental conditions inside the weighing chamber.

Measurement of ambient conditions carried out in few locations of the device

The mass comparator comes standard with a top-class thermo-hygro-barometer enabling real-time control of ambient conditions in three locations. The characteristic feature of the device is high readability of pressure, 0.001 hPa, humidity, 0.01 %, and temperature, 0.001 °C. Reliability of ambient conditions measurement carried out using the thermo-hygro-barometer is confirmed by a calibration certificate.

Universal magazine insert shape

Mechanical design of the mass standard magazine insert allows measurement of extremely small mass with very high accuracy, and prevents weight jamming. The device enables comparison of weights of all shapes compliant with OIML recommendations, using just one universal insert.

Optional equipment:

· video camera enabling remote preview of comparison process in real time (Internet access required),

RMCS software, enabling unrestricted monitoring of the comparison process.

	RMCM-5	RMCM-10	RMCM-100
OIML calibration range E1	1 mg ÷ 5 g	1 mg ÷ 10 g	1 g ÷ 100 g
OIML calibration range E2	1 mg ÷ 5 g	1 mg ÷ 10 g	1 g ÷ 100 g
OIML calibration range F1	1 mg ÷ 5 g	1 mg ÷ 10 g	1 g ÷ 100 g
OIML calibration range F2	1 mg ÷ 5 g	1 mg ÷ 10 g	1 g ÷ 100 g
Maximum capacity [Max]	6.1 g	10.1 g	106 g
Readability [d]	0.1 ug	0.1 ug	0.1 µg
Standard repeatability 5% [Max]	0.25 ug	0.25 ug	0.5 ug
Standard repeatability [Max] ²	0.4 ug	0.6 ug	0.8 ug
Standard repeatability permissible	0.6 ug	0.8 ug	1 ug
Stabilization time	30 s	30 s	30 s
ABBA cycle duration	520 s	520 s	520 s
Adjustment	automatic	automatic	automatic
Electric compensation range	0 ÷ +6.1 g	0 ÷ +6.1 g	-1 g ÷ +6 g
Mass standard magazine	120 positions	120 positions	100 positions
Communication interfaces	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi®, Hotspot	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi®, Hotspot	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi®, Hotspot
Weighing pan dimensions	24 × 50 mm	24 × 50 mm	24 × 63 mm

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¹ Optional equipment.

² Repeatability is expressed as a standard deviation determined for 6 ABBA cycles.