

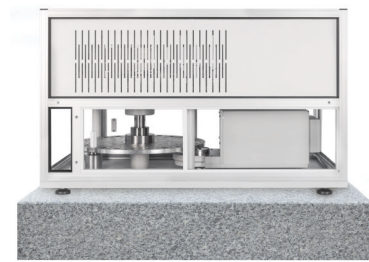
AUTOMATIC MASS COMPARATOR UMA



Mass comparators of UMA series stand for the highest standard of professional automatic mass comparators. They provide comparison of 1 mg – 100 g weights of E1 and lower classes.

The device is equipped with 36 magazine positions allowing to deposit up to 36 weights (UMA 1000 - 16). This solution allows to perform either comparison for complete set of weights carried out within one process or comparison for just a few weights of the same mass.

Owing to elimination of human factor and with temperature changes and air drafts reduced to zero, UMA automatic mass comparators provide the highest possible measurement repeatability.



Compact size guarantees operation of the device at any laboratory workstation. Possibility of comparison of many weights at a time adds to comparator's versatility.

Technical specification:

	UMA 5	UMA 100	UMA 1000
E1	1 mg ÷ 5 g	1 g ÷ 100 g	100 g ÷ 1000 g
E2	1 mg ÷ 5 g	1 g ÷ 100 g	10 g ÷ 1000 g
F1	1 mg ÷ 5 g	1 g ÷ 100 g	10 g ÷ 1000 g
F2	1 mg ÷ 5 g	1 g ÷ 100 g	10 g ÷ 1000 g
M1	1 mg ÷ 5 g	1 g ÷ 100 g	10 g ÷ 1000 g
M2	1 mg ÷ 5 g	1 g ÷ 100 g	10 g ÷ 1000 g
Max capacity	5,1 g	110 g	1100 g
Readability d	0,1 µg	0,001 mg	0,005 mg
* Repeatability at nominal load	0,2 µg (5 g)	0,002 mg (100 g)	0,012 mg (1000 g)
* Repeatability at low load	0,2 µg (100 mg)	0,002 mg (1 g)	0,012 mg (10 g)
Electric compensation range	0 ÷ 5,1 g	- 1 g ÷ 10 g	- 10 g ÷ 110 g
Supplementary weights internal	-	automatic	automatic
Eccentricity (tested load)	0 µg	0 mg	0 mg
Stabilization time	30 s	30 s	30 s
Adjustment/calibration	internal	internal	external
Magazine positions	36	36	16
Ambient conditions:			
Working temperature	(15 ÷ 30) °C	(15 ÷ 30) °C	(15 ÷ 30) °C
Change rate of working temperatures	± 0,5 °C / 12 h (± 0,3 °C / 4 h)	± 0,5 °C / 12 h (± 0,3 °C / 4 h)	± 0,5 °C / 12 h (± 0,3 °C / 4 h)
Atmospheric humidity	(40 ÷ 60) %	(40 ÷ 60) %	(40 ÷ 60) %
Change rate of atmospheric humidity	± 2 % / 4 h	± 2 % / 4 h	± 2 % / 4 h
Dimensions			
Pan size	ø 20 mm	ø 20 mm	ø 50 mm
Weighing unit dimensions	950 × 590 × 540 mm	700 × 585 × 720 mm	700 × 585 × 720 mm
Control unit dimensions	460 × 250 × 195 mm	460 × 250 × 195 mm	460 × 250 × 195 mm
Net weight/Gross weight	55 kg / 75 kg	60 kg / 80 kg	60 kg / 80 kg
Control packaging size	420 × 370 × 420 mm	420 × 370 × 420 mm	420 × 370 × 420 mm
Weighing packaging size	1200 × 800 × 950 mm	1200 × 1000 × 1200 mm	1200 × 1000 × 1200 mm

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

PARTNER CORPORATION

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