





Manual mass comparators



[Max]: 6,1 g [d]: **0,1 µg**

WAY.5Y.KO



WAY.5Y.KO

[Max]: 110 g - 5100 g [d]: $1 \mu g - 1 mg$



Manual mass comparators





XA.5Y.KO

[Max]: 6,1 g - 210 g

[d]: 1 µg – 10 µg

APP.5Y.KO

[Max]: 10,2 kg - 64 kg [d]: **0,1 mg – 10 mg**



[d]: **0,5 g – 2 g**



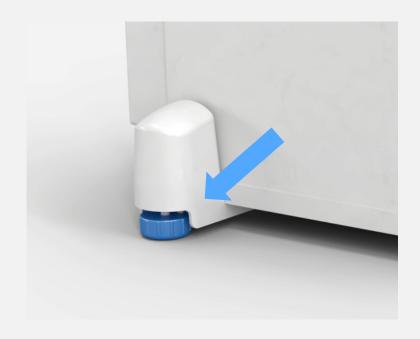
Main advantages of UYA.5Y.KO-series manual comparators

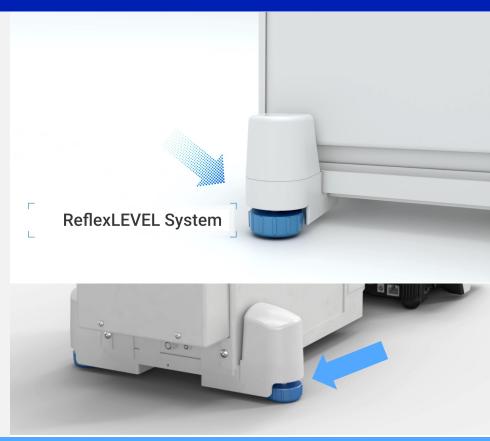




Main advantages of manual comparators

Automatic balance levelling - ReflexLEVEL System







Main advantages of manual comparators

Special mode for mass standards comparation directly in the 5Y terminal with 10" screen

Bigger screen of 10" means more information in one place, as well as the possibility of using comparation mode, which enables to change the number of the cycles, comparation method etc...

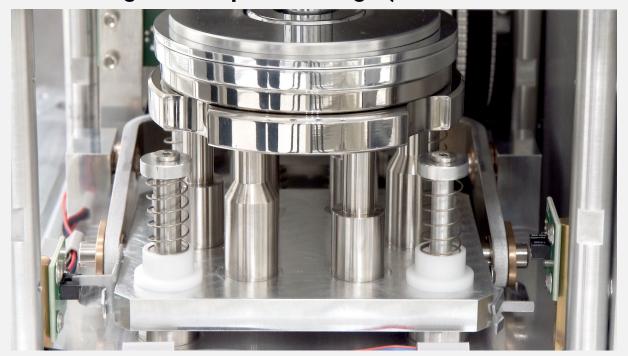






Main advantages of manual comparators

Fully automated change of comparison range (automatic internal ballasts)





Main advantages of manual comparators

Possible to use a self-centring weighing pan in order to limit a non-centricity error.



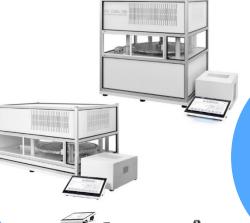




Automatic mass comparators



[Max]: 6,1 g - 1060 g [d]: **0,1 µg - 5 µg**



AKM-2.5Y

[Max]: 20,5 kg - 51 kg [d]: **0,1 mg - 1 mg**



Automatic mass comparator



AK-4.5Y

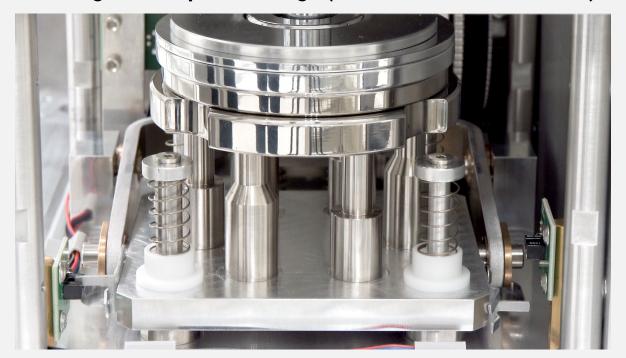
[Max]: 110 g - 10050 g [d]: $0,1 \mu g - 0,01 mg$





Main advantages of automatic comparators

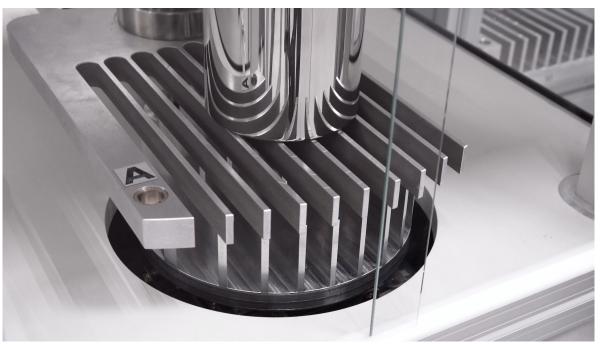
Fully automatic change of comparison range (automatic internal ballasts)





Main advantages of automatic comparators

Possible to use a suspended self-centring weighing pan in order to limit a non-centricity error.



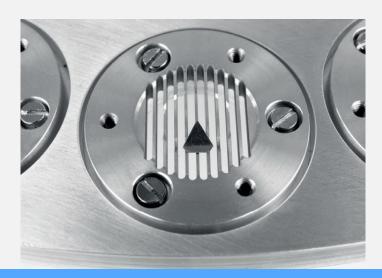


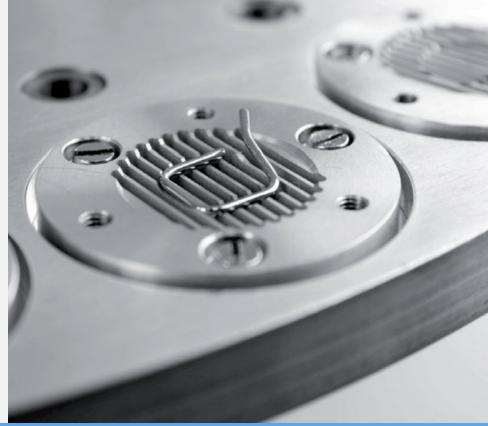


Main advantages of UMA.5Y-series manual comparators

Universal shape of the insert

Thanks to the structure of the insert, it is possible to weigh very low weights with high precision and to secure the mass standard against jamming. The UMA automatic comparators allow comparing all known shapes of weights with the use of one universal insert.







Main advantages of UMA.5Y-series manual comparators

The highest measurements repeatability in a short time

The UMA automatic comparators, thanks to excluding the "human factor", as well as the temperature changes and the air drifts, feature the highest measurements repeatability. Thanks to the consistent structure of the device, the mass standards are located close to each other, which enables to shorten the comparation time to minimum.

Comparing the whole sets of the weights

The device is produced with 18 or 36 magazine positions it has magazine for maximum of 36 weights. This is a very universal solution, which enables both comparation of the whole sets of weights in one process and the comparation of just a few weights of the same mass.





UYA 5.5Y

 $d=0,1 \mu g$ Max: 6,1 g

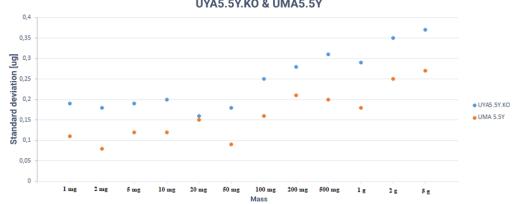




UMA 5.5Y

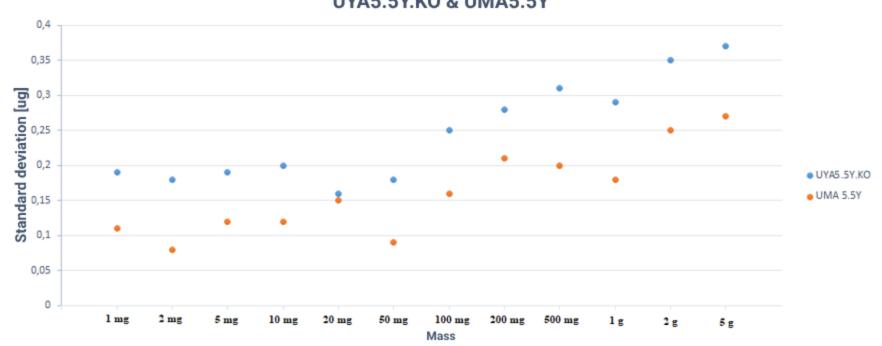
d=0,0001 mg Max: 6,1 g







Comparison of repeatability of comparators **UYA5.5Y.KO & UMA5.5Y**





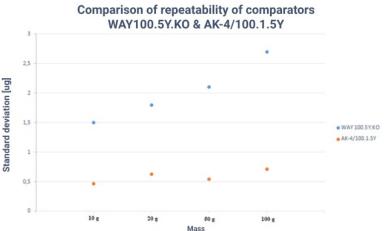
WAY 100.5Y.KO

d=0,001 mg Max: 110 g

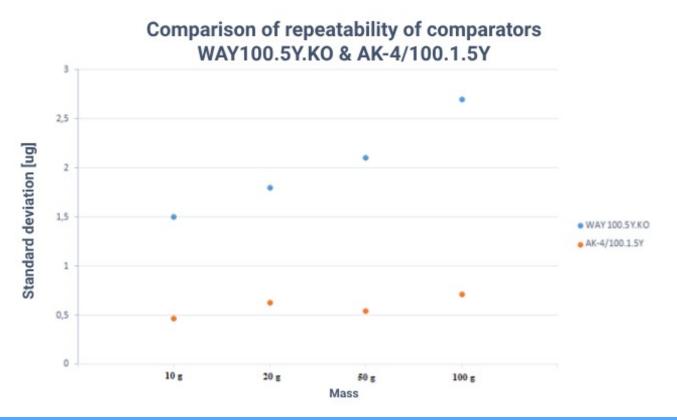


AK-4/100.1.5Y

 $d=0,1 \mu g$ Max: 110 g









WAY 1.5Y.KO

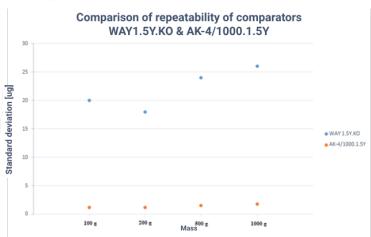
d=0,01 mg Max: 1020 g





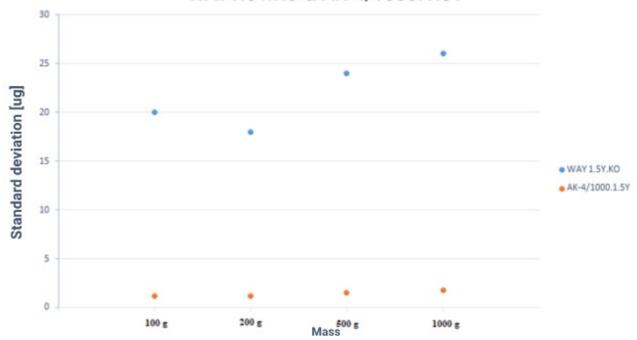
AK-4/1000.1.5Y

d=0,005 mgMax: 1020 g





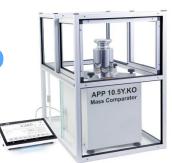
Comparison of repeatability of comparators WAY1.5Y.KO & AK-4/1000.1.5Y





APP 10.5Y.KO

d=0,1 mg Max 10200 g

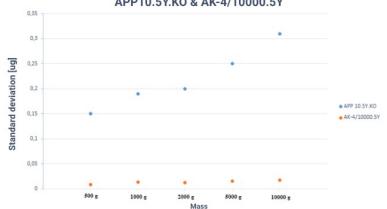




AK-4/10000.5Y

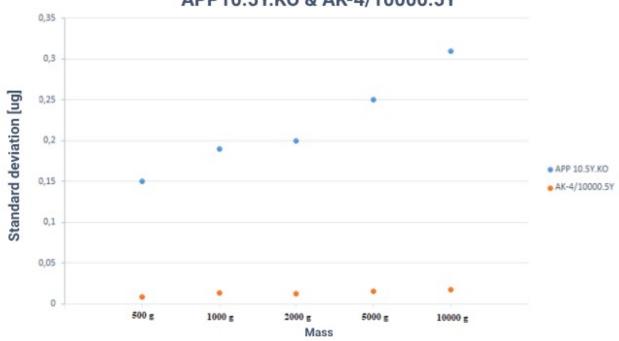
d=0,01 mgMax 10050 q













The list of manual comparator installations



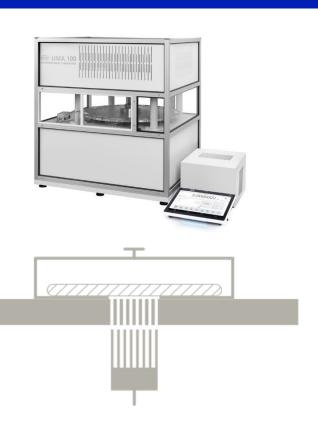


The list of automatic comparator installations





Special designs



UMA 2.5Y.F Automatic Weighing System

The UMA 2.5Y.F Automatic Weighing System is used to test changes of masses of filters made of quartz fibre, glass fibre, Teflon and filters made of glass-fibre-covered Teflon.

The mass measurement is known for precision of 1 µg or 0.1 µg. The weighing system also allows filter conditioning as per requirements of PN-EN 14907, PN-EN 12341.



Special designs



AK-4

Automatic comparator

AK-4 automatic comparator

for determination of mass of empty gas valves and when filled with gas prepared for special requirements of the National Institute of Metrology in England NPL.



