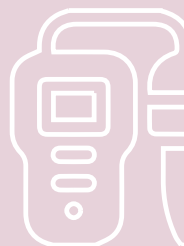


K | MEASURING INSTRUMENTS

KB - Balances	236	KD - pH-meters	246	KL - Hydrometers	256
KBB - Electronic, precision 1/0.1 g.....	236	KDB - Testers.....	246	KLB - Alcoholometers	256
KBC - Electronical, precision 0.01 g.....	237	KDD - Laboratory pH-meters	247	KLD - Areometers	257
KBD - Electronical, precision 0.001 g.....	238	KDG - Electrodes and accessories.....	249	KLG - Hydrometers	257
KBF - Analytical, precision 0.0001 g.....	240	KDJ - pH paper.....	250	KLJ - Saccharometers	258
KBH - Pocket balances.....	241	KG - Conductivity meters	251	KLL - Mustimeters	258
KBK - Analytical, precision 0.00001 g.....	241	KGB - Pocket tester	251	KLN - Liquid hydrometers.....	259
KBN - Weighing accessories	242	KGD - Laboratory conductivity-meters.....	252	KLQ - Pycnometers	259
KBP - Spring balances	243	KJ - Thermometers	253	KN - Viscosimeters	260
KBQ - Mechanicals.....	243	KJB - Solid stem	253	KNB - Rotational viscosimeters	260
KBR - Mechanical, weight set	244	KJD - Enclosed scale	253	KZ - Others	261
KBS - Weights E2.....	244	KJJ - With metal probe	253	KZB - Dissolved oxygen	261
KBT - Weights E2.....	245	KJM - Room temperature	254	KZD - Multiparameter	262
KBV - Weights F2.....	245	KJP - For refrigerators	255	KZF - Turbidity	266
KBW - Weights M1.....	245	KJR - Others	255		
Certification ENAC for weights	245	KK - Time	256		
KC - Humidity	246	KKB - Stopwatches.....	256		
KCD - Analyzer.....	246	KKF - Timers.....	256		





NAHITA-BLUE balances icons



AUTOMATIC INTERNAL ADJUSTMENT CAL:
Adjustment through internal calibration weight driven by motor.



UNDER WEIGHT:
Through a hook on the bottom of the scale.



ELECTROMAGNETIC FORCE COMPENSATION:
Coil on a permanent magnet, for the most accurate weighing



STRAIN GAUGES



POWER SUPPLY BY BATTERIES:
For batteries operation, the battery type is indicated on each device.



PERCENTAGE DETERMINATION:
Determination of the deviation in % from the theoretical value (100%)



WEIGHTING UNITS:
By pressing the unit key.



AUTOMATIC INTERNAL ADJUSTMENT:
Adjustment through internal calibration weight driven by motor.



POWER CABLE
Integrated into the EU standard 230 V/50 Hz balance.



PIECE COUNTING:
Selectable number of references. Switching from unit display to weight display.



DATA INTERFACE RS-232:
To connect the machine to a printer, computer, or network.



USB:
To connect the equipment to a printer, computer, or other peripheral device.



POWER SUPPLY BY ACCUMULATOR



POWER ADAPTER:
110/220 V as standard in the EU.



KBB - Electronic, precision 1/0.1 g

Series 5171



- 1 | High-precision load sensor and overload protection
- 2 | Large, easy to read backlit LCD display
- 3 | Plastic housing and stainless steel plate.
- 4 | Weighing, parts counting and hook functions for bottom weighing.
- 5 | Automatic calibration by external weight, weight included only in ref. KBB008



balances icons - series 5171



Code	KBB008	KBB009	KBB010	KBB011
Capacity max. (g)	1000	2000	3000	5000
Readability (g)	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,2	± 0,2	± 0,2	± 0,2
Pan size (mm)	Ø 135	Ø 135	155x143	155x143
Weighting units	g, oz, ct, lb			
Calibration weight (kg)	0.5 (Included)	1 (Not included)	2 (Not included)	2.5 (Not included)
Dimensions (mm)	265x200x80			
Power	AC110-220V / 4 battery 1.5V (AA) (Not included)			



KBB - Electrónicas, precisión 1 - 0,1 g

Series 5161



1 | High-precision load sensor. Large and easy to read display with backlit LCD. Plastic housing and stainless steel plate. Polyethylene cover.

2 | Weighing and counting functions. Automatic calibration by external weight (see table), weight only included in the KBB004 model. With integrated rechargeable battery.

balances icons - series 5161



Code	KBB025	KBB004	KBB005	KBB006	KBB007	KBB024
Max. capacity (g)	500	1000	2000	3000	5000	6000
Readability (g)	0.1	0.1	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2
Pan size (mm)	143x192					
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ, mo dwt, oz, lb, tIT, ozt, tIH, %					
Calibration weight (kg)	0.5	0.5	1	2	2	2
	(included)	(included)	(not included)	(not included)	(not included)	(not included)
Dimensions (mm)	280x180x80					
Power	110-220VAC, 50/60Hz					



balances icons - series 5161-LED



Code	KBB012	KBB013
Capacity max. (g)	10000	20000
Readability (g)	0.1	
Repeatability	± 0,2 g	
Non linearity	± 0,2 g	
Pan size (mm)	337x237 mm	
Weighting units	gr, kg, lb	
Dimensions (mm)	370x370x125 mm	
Power	100-240V, 50-60 Hz / 4V4AH/20HR	



KBC - Electronical, precision 0.01 g

Series 5162



balances icons - series 5162



Code	KBC001	KBC002	KBC003	KBC004
Max capacity. (g)	300	500	1000	2000
Readability (g)	0.01	0.01	0.01	0.01
Accuracy (g)	± 0,01	± 0,01	± 0,01	± 0,01
Pan size (mm)	120x155			
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ mo, dwt, oz, lb, tIT, ozt, tIH, %			
Calibration weight(kg)	0.2	0.5	0.5	1
	(Included)	(Included)	(Included)	(Not included)
Dimensions (mm)	280x180x80			
Power	110-220VAC, 50/60Hz			





KBC - Electronical, precision 0.01 g

► Serie 5172



- 1 | High-precision load sensor and overload protection.
- 2 | Large, easy to read backlit LCD display. Plastic housing and stainless steel plate.
- 3 | Weighing and piece counting.
- 4 | Automatic calibration by external weight, included except for references KBC008 and KBC009.

balances icons - series 5172



Code	KBC005	KBC006	KBC007	KBC008	KBC009
Max. capacity (g)	300	500	1000	3000	5000
Legibility (g)	0.02				
Accuracy (g)	± 0,01				
Pan size (mm)	155x143				
Weighting units	g, oz, ct, lb				
Calibration weight (kg)	0.2 (Incl.)	0.5 (Incl.)	0.5 (Incl.)	2 (No incl.)	3 (No incl.)
Dimensions (mm)	265x200x80				
Power	110-220VAC / 4 batteries 1.5V (AA) (Not included)				



KBD - Electronical, precision 0.001 g

► Series 5133



- 1 | Electromagnetic force compensation technology.
- 2 | Adjustment of the sensitivity level and weighing speed. Overload protection.
- 3 | Large, easy-to-read backlit LCD display.
- 4 | Aluminium housing and stainless steel plate.
- 5 | Weighing, parts counting, percentage and hook functions for lower weighing.
- 6 | Automatic calibration by external weight (included). RS232 and USB outputs.

balances icons - series 5133



Code	KBD001	KBD002	KBD003
Accuracy Class	Class II	Class II	Class I
Max capacity. (g)	100	300	500
Min capacity (g)	0.020	0.020	0.020
Readability (g)	0.001	0.001	0.001
Value verification scale (g)	0.01		
Repeatability (g)	±0.001		
	±0.5e		
	0 ≤ m ≤ 5000		
	±1.0e		
	5000 ≤ m ≤ 20000		
	±1.5e		
	20000 < m		
Stabilization time (s)	≤5		
Pan size (mm)	Ø 90		
Weighting units	g, mg, ct, oz		
Calibration weight (kg)	0.1 (inclu.)	0.2 (inclu.)	0.2 (inclu.)
Total dimensions (mm)	340x215x350		
Power	110-220VAC, 50/60Hz		



KBD - Electronical, precision 0.001 g

► Series 5173



- 1 | High-precision load sensor and overload protection
- 2 | Aluminium housing and stainless steel plate.
- 3 | Large, easy to read backlit LCD display.
- 4 | Weighing, parts counting and hook functions for bottom weighing.
- 5 | Automatic calibration by external weight (included).

balances icons - series 5173



Code	KBD004	KBD005
Max capacity. (g)	100	300
Readability (g)	0.001	0.001
Repeatability (g)	±0.002	±0.002
Linearity (g)	±0.002	±0.002
Error (g)	±0.002	±0.002
Stabilization time (s)	1-1.5	
Pan size (mm)	90	
Weighting units	g, ct, oz, lb, ozt	
Calibration weight(kg)	0.05 (Included)	0.2 (Included)
Total dimensions (mm)	295x192x280	
Power	220-240VAC/50Hz	

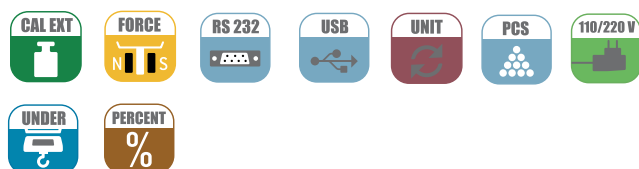


► Serie 5183



- 1 | Micro analytical balances have a removable antistatic screen with high brightness for better data visualization..
- 2 | It has an electromagnetic force load cell, automatic external calibration and a personalized weighing unit. External calibration and internal calibration models available (5144 and 5183 series).
- 3 | With bidirectional RS232/USB interface to export data to any spreadsheet, integrated autonomous dual program.
- 4 | Very fast weighing speed and high precision.
- 5 | With spirit level, adjustable feet for leveling and glass hood with sliding side and top doors.
- 6 | Hydrostatic weighing from the bottom of the balance.

balances icons - series 5183



Code (ext. calibration)	KBD015	KBD016	KBD017
Code (int. calibration)	KBD018	KBD019	-
Volume	500 g	1000 g	2000 g
Readability	1 mg		
Stabilization time	1-2 s		
Preheating time	30-60 min		
Units of weight	g/oz/ct/mg		
Min. weight	5 mg		
Repeatability	±1 mg		
Linearity	±2 mg		
Interface	RS232/USB		
Pan size	Ø 90 mm	Ø 110 mm	Ø 110 mm
Weight	6,5 kg		
Power	FTE AC 110-240V; 9VDC 2A		





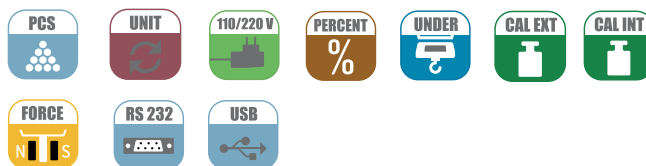
KBF - Analytical, precision 0.0001 g

► Series 5134



- 1| Electromagnetic force compensation technology.
- 2| Adjustment of the sensitivity level and weighing speed.
- 3| Overload protection. Large, easy-to-read backlit LCD display.
- 4| Aluminium housing and stainless steel plate. Weighing, parts counting, percentage and hook functions for lower weighing.
- 5| Automatic calibration by external weight (included) or internal depending on the model.

balances icons - series 5134



Series 5134 EX; External calibration	KBF001	KBF003
Series 5134 INT; Internal calibration	KBF002	KBF004
Accuracy Class	Class I	Class I
Max capacity. (g)	120	220
Min capacity (g)	0,010	0,010
Readability (g)	0.0001	0.0001
Scale verification value (g)	0.001	
Repeatability (g)	±0.0002	
±0.5e	0 ≤ m ≤ 50000	
±1.0e	50000 < m ≤ 200000	
±1.5e	20000 < m	
Stabilization time (s)	≤ 8	
Pan size (mm)	Ø 80	
Weighting units	g, mg, ct, oz	
Total dimensions (mm)	340x215x350	
Power	110-220VAC, 50/60Hz	

► Serie 5144



- 1| Balances have a removable antistatic screen with high brightness for better data visualization.
- 2| It has an electromagnetic force load cell, automatic external calibration and a personalized weighing unit. External calibration and internal calibration models available (5144 and 5183 series).
- 3| With bidirectional RS232/USB interface to export data to any spreadsheet, integrated autonomous dual program.
- 4| Very fast weighing speed and high precision.
- 5| With spirit level, adjustable feet for leveling and glass hood with sliding side and top doors.
- 6| Hydrostatic weighing from the bottom of the balance.

Code (ext. calibration)	KBF010	KBF011	KBF012
Code (int. calibration)	KBF013	KBF014	KBF015
Capacity	120 g	320 g	520 g
Readability	0,1 mg		
Stabilization time	1,5 s	2,5 s	2,5 s
Preheating time	30-60 min		
Units of weight	g/oz/ct/mg		
Min. weight	1 mg		
Repeatability	±0,1 mg	±0,2 mg	±0,2 mg
Linearity	±0,2 mg	±0,3 mg	±0,3 mg
Interface	RS232/USB		
Pan size	Ø 90 mm		
Weight	6,5 kg		
Power	FTE AC 110-240V; 9VDC 2A		



KBH - Pocket balances

► Series 5043



- 1| Compact and robust design with protective cover.
- 2| Backlit touch screen for easy reading
- 3| Stainless steel weighing pan.
- 4| Weighing, parts counting and tare function by direct access key.
- 5| One-point calibration (calibration weight not included).

Code	KBH001	KBH002	KBH003
Capacity (g)	100	200	500
Readability (g)	0.01	0.01	0.01
Pan size (mm)	60x60		
Weighting units	g, ct, dwt, oz, ozt		
Calibration weight	0,1 kg	0.2 kg	-
Dimensions (mm)	70x115x20		
Power	2 battery 1.5 V (AAA)		



KBK - Analytical, precision 0.00001 g

► Series 5145



- 1| Micro analytical balances have a removable antistatic screen with high brightness for better data visualization.
- 2| It has an electromagnetic force load cell, automatic external calibration and a personalized weighing unit.
- 3| With bidirectional RS232/USB interface to export data to any spreadsheet, integrated autonomous dual program.
- 4| Very fast weighing speed and high precision. With spirit level, adjustable feet for leveling and glass hood with sliding side and top doors. Hydrostatic weighing from the bottom of the balance.

balances icons - series 5145



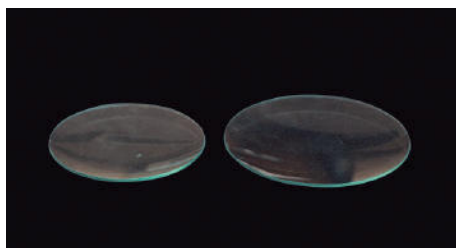
Code	KBK002
Capacity	200 g
Readability	0,01 mg to 51 g and 0,1 mg to 200 g
Repeatability	±0,03 mg / ±0,1mg
Linearity	±0,03 mg / ±0,2 mg
Min. weight	0,5 mg / 1mg
Plate diameter	90 mm
Units of weight	g / oz / ct / mg
Weight	6,5 kg
Power	110-240VAC; 9VDC 2A





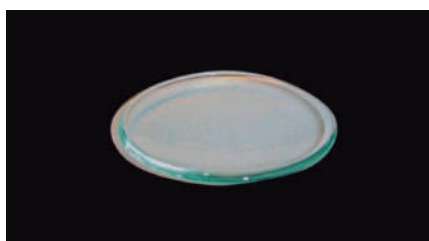
KBN - Weighing accessories

▶ Watch glass, ground edge



Code	Diameter (mm)	Lot
KBN001	45	10
KBN002	50	10
KBN003	60	10
KBN004	70	10
KBN005	80	10
KBN006	90	10
KBN007	100	10
KBN008	120	10
KBN009	150	10
KBN010	180	10

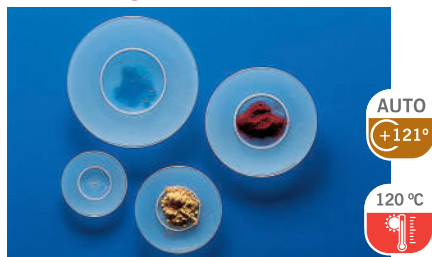
▶ Watch glass, burnt edge



Code	Diameter (mm)	Lot
KBN011	40	10
KBN012	50	10
KBN013	60	10
KBN014	70	10
KBN015	80	10
KBN016	100	10
KBN017	120	10
KBN018	140	10
KBN019	160	10
KBN059	200	10

▶ Watch glasses, PP

Kartell



1 | Equipped with a support base that prevents it from turning.

Code	Diameter (mm)	Lot
KBN030	60	10
KBN031	75-80	10
KBN032	100	10
KBN033	125	10



KBN - Weighing accessories

▶ Watch glasses, PTFE



1 | Excellent chemical and mechanical resistance. Will withstand temperatures up to +260°C and for short intervals up to +340°C.

Code	Diameter (mm)
KBN065	60
KBN066	80
KBN067	100
KBN068	120
KBN069	150



Kartell

1 | Exceptional chemical and thermal resistance.

Code	Diameter (mm)
KBN034	52
KBN035	76
KBN036	99
KBN037	126
KBN038	153

▶ Weighing bottles

Kartell



1 | Lightweight, autoclavable and reusable. Airtight snap-on lid. Optimum acid resistance.

Code	Cap.	Dim. (ØxH)	Tare	Lot
KBN023	23 mL	30x48 mm	8 g	10
KBN024	20 mL	40x29 mm	8 g	10
KBN025	60 mL	40x69 mm	14 g	10
KBN026	30 mL	49x29 mm	10 g	10
KBN027	50 mL	59x34 mm	18 g	10
KBN028	190 mL	59x88 mm	28 g	10
KBN029	360 mL	70x118 mm	40 g	10



KBN - Weighing accessories


VITLAB

Code	Cap.	Dim. (ØxH)t
KBN515	65 mL	60 x 40 mm
KBN516	50 mL	30 x 50 mm
KBN517	65 mL	35 x 60 mm
KBN518	200 mL	90 x 60 mm

► Weighing trays

Kartell


Code	Cap.	Colour	Dim. (mm)	Pack
Square				
KBN039	7 mL	White	43x43x8	B/1000
KBN040	100 mL	White	78.5x78.5x23	B/1000
KBN041	250 mL	White	134x134x23	B/1000
Rhomboidal				
KBN042	5 mL	White	31x53x5.3	B/1000
KBN044	30 mL	White	56x85x14.5	B/500
KBN045	30 mL	Black	56x85x14.5	B/500
KBN046	100 mL	White	96x134.5x18.5	B/250
KBN047	100 mL	Black	96x134.5x18.5	B/250

KBP - Spring balances

► Plastic

Nahita


Code	Range	Sensibility
KBP003	250 g / 2.5 N	5 g / 0.05 N
KBP004	500 g / 5 N	10 g / 0.1 N
KBP005	1000 g / 10 N	20 g / 0.2 N
KBP006	2000 g / 20 N	50 g / 0.5 N
KBP007	3000 g / 30 N	50 g / 0.5 N
KBP008	5000 g / 50 N	100 g / 1 N

KBQ - Mechanical

► Roberval series 5001

Nahita


- 1 | Oven-painted steel with treated steel blades and agate bearings
- 2 | Frontal scale for additions from 5g to 50g (depending on model). Weight set included.

Code	KBQ003	KBQ004
Capacity (g)	1000	2000
Readability (g)	1	2
Scale range (g)	0-10	*
Scale division (g)	1	-
Pan size (mm)	Ø 134	Ø 170
Dimensions (cm)	35x14x20	40x18x30

* No front scale

► Equal-arm balances

Nahita


- 1 | Weighing system in steel with treated steel blades and blocking system. Removable for storage (wooden box included). Includes a complete set of weights.

Code	KBQ005
Cap./Sensibility (g)	100 / 0.02
Pan size (mm)	Ø 80
Dimensions (mm)	300x160x80

► Monoplate balance 4 beams

Nahita

- 1 | Light metal casting, with agate bearings and hardened steel blades.
- 2 | It has 4 arms with sliding weights of 100g, 10g, 1g and 0.1g
- 3 | With platform for hydrostatic weighing. With magnetic cushioning



Code	KBQ006
Capacity (g)	311
Sensibility (g)	0.01
1a beam	1g divided each 0.01g
2a beam	10g divided each 1g
3a beam	100g divided each 10g
4a beam	200g divided each 100g
Pan size (mm)	Ø100
Dimensions (mm)	420x180x360



KBQ - Mechanicals

► Monoplate balance 3 beams



- 1 | Light metal casting, with agate bearings and hardened steel blades.
- 2 | It has 3 arms with sliding weights.
- 3 | Incorporates a support for additional weights supplied with the equipment:

- 2 weights of 295g that increase the capacity by 1000g.
- 1 weight of 147.5g that increases in 500g the capacity.

- 4 | With magnetic cushioning

Code	KBQ007
Capacity (g)	610 2610, with additional weights
Sensitivity (g)	0.1
1a beam	10g divided each 0.1g
2a beam	500g divided each 100g
3a beam	100g divided each 10g
Pan size (mm)	150 mm
Dimensions (mm)	420x180x360



KBR - Mechanical, weight set

► Set of weights, 200 g



Code	KBR001
Composed of	1 weight of 100 g 1 weight of 10 g 1 weight of 50 g 1 weight of 5 g 2 weight of 20 g 1 clamp

► Set of weights, 500 g



Referencia	KBR002
Composed of	1 weight of 200 g 2 weight of 20 g 2 weight of 100 g 1 weight of 10 g 1 weight of 50 g 1 clamp



KBR - Mechanical, weight set

► Set of weights, 1000 g



Code	KBR003
Composed of	1 weight of 500g 1 weight of 50 g 1 weight of 200g 2 weight of 20 g 2 weight of 100g 1 weight of 10 g

► Set of weights, 2000 g



Code	KBR004
Composed of	1 weight of 1 kg 1 weight of 50 g 1 weight of 500 g 2 weight of 20 g 1 weight of 200 g 1 weight of 10 g 2 weight of 100 g



KBS - Weights E2



- 1 | High-precision test and adjustment weights for high-resolution analytical balances in verification class I with a maximum resolution of more than 100,000 d. Made of non-magnetic stainless steel
- 2 | Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBS002	1 g	± 0.03
KBS003	2 g	± 0.04
KBS004	5 g	± 0.05
KBS005	10 g	± 0.06
KBS006	20 g	± 0.08
KBS007	50 g	± 0.10
KBS008	100 g	± 0.15
KBS009	200 g	± 0.30
KBS010	500 g	± 0.75
KBS011	1 Kg	± 1.50
KBS012	2 Kg	± 3.00
KBS013	5 Kg	± 7.50
KBS014	10 Kg	± 15.00
KBS015	20 Kg	± 30.00
KBS001	Set 12 fractions E2 of 500mg to 1mg**	-----

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.