NEW

BALANCE - *"0,0001 gr presicion"*

➤ Provides comfortable and reliable weighing with 0,0001 gr precision with single cell weighing system.

➤ Microprocessor controlled weighing technology guarantees fast and precise results at any time.

➤ Equipped with internal fully automatic calibration for quick setting of the balance.

➤ Featured with easy-to-read, large, backlite LCD display with advanced eye protection system. The user can easily read the indications in the display without the risk of reading errors.

➤ State-of-art touch button screen with ergonomically optimised keypad for left and right handed users. When a key is pressed, the pad responds immediately, even if the user is wearing protective gloves.

➤ Compact size suitable for small spaces. Occupies minimal space on the laboratory bench, yet maintains optimal performance.

➤ Robust housing protects internal components from environmental effects. The smooth surface allows the spills and finger prints to be wiped off easily.

➤ Removable, stainless steel pan with 90 mm diameter allows easy cleaning.

➤ RS-232 interfaces provide high speed communication with computers and printers.

➤ Equipped with internal re-chargeable battery. Supplied with a dust cover and calibration weight.

catalogue no	602.31.001
weighing range (g)	220
readability (g)	0,0001
reproducibility (mg)	± 0,1
linearitiy (mg)	± 0,2
pan diameter (mm)	90
weighing units	mg, g, kg, lb, oz, ozt, gn, ct
calibration	internal, fully automatic
display	LCD
cabin type	full
overall dimensions (mm)	342 x 212 x 341
interface	RS 232

Glass windshield with sliding doors offer optimal visibility and guarantees easy access to the weighing pan.

Featured with easy-to-read, large, backlite LCD display with advanced eye protection system.

STATISTICAL PRINTER

➤ Practical and easy to use printer that can be attached to all balances via RS232C interface.

➤ Weighing results can be statistically evaluated. Min value, standard deviation, total weight are automatically printed out due to built-in statistic and totalization function.

➤ Also offers complete documentation of all data including calibration, weighing results, correct date and time informations.

catalogue no	602.31.101
features	date, time, statistic and totalization
printer	dot matrix printer
no of characters per line	24 character
printing speed	faster than 1 line per second
paper size	57,5 x 0,5 mm
power supply	100 - 270 V / 50 - 60 Hz
dimensions (mm)	210 x 135 x 88
net weight (gr)	2000

density & sedimentation & temperature & time & pH & weight measurement

BALANCE - "0,001 gr presicion"

➤ Provides comfortable and reliable weighing with 0,001 gr precision with single cell weighing system.

➤ Microprocessor controlled weighing technology guarantees fast and precise results at any time.

➤ Equipped with external weight calibration system for quick setting.

➤ Featured with easy-to-read, large, backlite LCD display. The user can easily read the indications in the display without the risk of reading errors.

➤ State-of-art touch button screen with ergonomically optimised keypad for left and right handed users. When a key is pressed, the pad responds immediately, even if the user is wearing protective gloves.

➤ Compact size suitable for small spaces. Occupies minimal space on the laboratory bench, yet maintains optimal performance.

➤ Robust housing protects internal components from environmental effects. The smooth surface allows the spills and finger prints to be wiped off easily.

➤ Removable, stainless steel pan with 85 mm diameter allows easy cleaning.

➤ RS-232 interfaces provide high speed communication with computers and printers.

➤ Equipped with internal re-chargeable battery. Supplied with a dust cover and calibration weight.

catalogue no	602.31.002
weighing range (g)	320
readability (g)	0,001
reproducibility (mg)	± 2
linearitiy (mg)	± 3
pan diameter (mm)	85
weighing units	g, kg, lb, oz, ozt, gn, ct
calibration	external, with calibration weight
display	LCD
cabin type	full
overall dimensions (mm)	280 x 210 x 275
interface	RS 232

Glass windshield with sliding doors offer optimal visibility of the weighing samples and guarantees easy access to the weighing pan.

Lever indicator and adjusting feet ensure proper balance setup for optimum weighing results.

Featured with easy-to-read, large, backlite LCD display with advanced eye protection system.

BALANCE - *"0,01 gr presicion"*

➤ Provides comfortable and reliable weighing with 0,01 gr precision with single cell weighing system.

➤ Microprocessor controlled weighing technology guarantees fast and precise results at any time.

➤ Equipped with external weight calibration system for quick setting.

➤ Featured with easy-to-read, large, backlite LCD display. The user can easily read the indications in the display without the risk of reading errors.

➤ State-of-art touch button screen with ergonomically optimised keypad for left and right handed users. When a key is pressed, the pad responds immediately, even if the user is wearing protective gloves.

➤ Compact size suitable for small spaces. Occupies minimal space on the laboratory bench, yet maintains optimal performance.

➤ Robust housing protects internal components from environmental effects. The smooth surface allows the spills and finger prints to be wiped off easily.

➤ Windshield (accept model 602.31.005) with sliding doors offer optimal visibility of the weighing samples and guarantees easy access to the weighing pan.

➤ Lever indicator and adjusting feet ensure proper balance setup for optimum weighing results.

➤ Removable, stainless steel pan allows easy cleaning.

➤ RS-232 interfaces provide high speed communication with computers and printers.

➤ Equipped with internal re-chargeable battery. Supplied with a dust cover and calibration weight.

Featured with easy-to-read, large, backlite LCD display. The user can easily read the indications in the display without reading errors.

Lever indicator and adjusting feet ensure proper balance setup for optimum weighing results.

catalogue no	602.31.003	602.31.004	602.31.005	602.31.006
weighing range (g)	1200	2200	3200	4200
readability (g)	0,01	0,01	0,01	0,01
reproducibility (mg)	± 20	± 20	± 20	± 20
linearitiy (mg)	± 20	± 30	± 30	± 40
pan dimensions (mm)	Ø 130	Ø 130	Ø 130	185 x 160
weighing units	g, kg, lb, oz, ozt, gn, ct	g, kg, lb, oz, ozt, gn, ct	g, kg, lb, oz, ozt, gn, ct	g, kg, lb, oz, ozt, gn, ct
calibration	external, with weight	external, with weight	external, with weight	external, with weight
display	LCD	LCD	LCD	LCD
cabin type	half size	half size	non	non
overall dimensions (mm)	280 x 210 x 180	280 x 210 x 180	280 x 210 x 100	280 x 210 x 100
interface	RS 232	RS 232	RS 232	RS 232

NEW

NEW

BALANCE - *"0,1 gr presicion"*

➤ Provides comfortable and reliable weighing with 0,1 gr precision with single cell weighing system.

➤ Microprocessor controlled weighing technology guarantees fast and precise results at any time.

➤ Equipped with external calibration system for quick setting.

➤ Featured with easy-to-read, large, backlite LCD display. The user can easily read the indications in the display without the risk of reading errors.

➤ State-of-art touch button screen with ergonomically optimised keypad for left and right handed users. When a key is pressed, the pad responds immediately, even if the user is wearing protective gloves.

➤ Compact size suitable for small spaces. Occupies minimal space on the laboratory bench.

➤ Robust housing protects internal components from environmental effects.

➤ Lever indicator and adjusting feet ensure proper balance setup for optimum weighing results.

➤ Removable, stainless steel pan with dimensions 185 x 160 mm allows easy cleaning.

➤ RS-232 interfaces provide high speed communication with computers and printers.

➤ Equipped with internal re-chargeable battery. Supplied with a dust cover and calibration weight.

catalogue no	602.31.007
weighing range (g)	6200
readability (g)	0,1
reproducibility (mg)	± 100
linearitiy (mg)	± 200
pan dimensions (mm)	185 x 160
weighing units	g, kg, lb, oz, ozt, gn, ct
calibration	external
display	LCD
cabin type	non
overall dimensions (mm)	280 x 210 x 100
interface	RS 232

BALANCE - *"0,01 gr presicion"*

➤ Provides comfortable and reliable weighing with 0,01 gr precision.

➤ Compact size suitable to fit even into a pocket. Occupies minimal space on the laboratory bench, yet maintains optimal performance. Ideal assistant where mobility and presicion are required.

➤ Microprocessor controlled weighing technology guarantees fast and precise results at any time.

➤ State-of-art touch button screen with ergonomically optimised keypad for left and right handed users. When a key is pressed, the pad responds immediately, even if the user is wearing protective gloves.

➤ Robust housing protects internal components from environmental effects. The smooth surface allows the spills and finger prints to be wiped off easily.

➤ Stainless steel pan with 100x 100 mm dimensions allows easy cleaning.

➤ Battery operated. Featured with auto power off after 30 seconds for energy saving.

Featured with easy-to-read, large, backlight LCD display.

catalogue no	602.32.001
weighing range (g)	500
readability (g)	0,01
reproducibility (mg)	± 50
linearitiy (mg)	± 50
pan dimensions (mm)	100 x 100
weighing units	g, oz, gn
calibration	--------
display	LCD
cabin type	non
overall dimensions (mm)	127 x 106 x 19
interface	--------

WEIGHING DISHES (BOATS) - *"diamond form"*

➤ Manufactured from polystyrene for many applications such as weighing, dispensing and storing.

➤ Since the anti-static property of the raw material eliminates the static built-up, they are specially recommended for weighing fine powders.

➤ They can also be used as freze and mixing trays for small batches and also during microwave moisture analysis.

➤ Guarantees excellent chemical and temperature resistance between -10°C to +70°C.

➤ Flat bottom ensures perfect stability on counters while smooth and non-porous inner surface provides accurate pour-outs with minimal sample loss.

➤ Available 2 products: ➤ Non-sterilised ➤ Gamma sterilised

With a slight pressure to the sides weighing dishes can easily be coverted into a pouring funnel for easy and non-spill transfer of samples.

non-sterile	sterile	dish volume	dish color	non-sterile pack qty.	sterile pack qty.
037.05.005	037.15.005	5 ml	white	100 pieces	10 pieces
037.05.030	037.15.030	30 ml	white	100 pieces	10 pieces
037.05.100	037.15.100	100 ml	white	100 pieces	10 pieces
037.06.005	037.16.005	5 ml	black	100 pieces	10 pieces
037.06.030	037.16.030	30 ml	black	100 pieces	10 pieces
037.06.100	037.16.100	100 ml	black	100 pieces	10 pieces

WEIGHING DISHES (BOATS) - *"square form"*

➤ Manufactured from polystyrene for many applications such as weighing, dispensing and storing.

➤ Since the anti-static property of the raw material eliminates the static built-up, they are specially recommended for weighing fine powders.

➤ They can also be used as freze and mixing trays for small batches and also during microwave moisture analysis.

➤ Guarantees excellent chemical and temperature resistance between -10°C to +70°C.

➤ Flat bottom ensures perfect stability on counters while smooth and non-porous inner surface provides accurate pour-outs with minimal sample loss.

➤ Available 2 products: ➤ Non-sterilised ➤ Gamma sterilised

With a slight pressure to the sides weighing dishes can easily be coverted into a pouring funnel for easy and non-spill transfer of samples.

non-sterile	sterile	dish volume	dish color	non-sterile pack qty.	sterile pack qty.
037.09.007	037.19.007	7 ml	white	100 pieces	10 pieces
037.09.100	037.19.100	100 ml	white	100 pieces	10 pieces
037.09.250	037.19.250	250 ml	white	100 pieces	10 pieces
037.11.007	037.21.007	7 ml	black	100 pieces	10 pieces
037.11.100	037.21.100	100 ml	black	100 pieces	10 pieces
037.11.250	037.21.250	250 ml	black	100 pieces	10 pieces

WEIGHING DISHES - *"for moisture analysis"*

➤ Manufactured from high grade, oil free, durable and light gauge aluminum.

➤ Unique design guarantees excellent use with moisture determination balances.

➤ Can also be used as a mixing or weighing pan.

➤ Wall with 8 mm height guarantees spill-free application.

➤ Easily stackable due to the tapered body form for reducing storage space.

catalogue number	Ø x H (mm)	pack quantity
037.25.100	100x8	50 pieces

WEIGHING DISHES - *"with handle"*

➤ Manufactured from high grade, oil free, durable and light gauge aluminium. Featured with compressed walls for extra stability.

➤ Designed to be used as weighing dishes, evaporating dishes or drying dishes.

➤ Featured with a handle which enables easy holding of the dish. Can also be used as a marking surface.

➤ Easily stackable due to the tapered body form for reducing storage space.

catalogue number	Ø x H (mm)	pack quantity
037.24.045	49x12	100 pieces
037.24.055	60x15	100 pieces
037.24.065	66x16	100 pieces

WEIGHING DISHES - *"general purpose"*

➤ Manufactured from high grade, oil free, durable and light gauge aluminium. Featured with compressed walls for extra stability.

➤ Unique design offers variety of applications. They can be used as weighing dishes, as mixing dishes also even as dishes for storing samples.

➤ Easily stackable due to the tapered body form for reducing storage space.

catalogue number	Ø x H (mm)	pack quantity
037.23.070	70x22	100 pieces
037.23.085	88x38	100 pieces
037.23.110	110x34	100 pieces

WEIGHING SCOOPS - *"glass"*

➤ Made from glass with flat base ensuring stability on the ballance pans.

➤ Hallow stem enables very easy powder transfer.

catalogue number	max. volume	pack quantity
037.07.001	3 ml	1 piece
037.07.002	6 ml	1 piece
037.07.003	10 ml	1 piece

WEIGHING SCOOPS - *"stainless steel"*

➤ Manufactured from stainless steel.

➤ Highly polished smooth interior provides accurate pour-outs without sample loss.

catalogue number	length	pack quantity
037.04.001	95 mm	1 piece
037.04.002	117 mm	1 piece
037.04.003	128 mm	1 piece

WATCH GLASSES - *"glass"*

➤ Manufactured from borosilicate glass according to DIN 12341 standard.

➤ Ideal tools also for evaporation applications and for covering the hot beakers.

➤ Fire polished edges prevents chipping and avoids breakage.

catalogue number	Ø (mm)	pack quantity
037.01.050	50	10 pieces
037.01.060	60	10 pieces
037.01.070	70	10 pieces
037.01.080	80	10 pieces
037.01.100	100	10 pieces
037.01.125	125	10 pieces
037.01.150	150	10 pieces
037.01.200	200	10 pieces

WEIGHING BOTTLES - *"glass"*

➤ Manufactured from borosilicate 3.3 glass complete with a lid.

➤ The interchangeable lids perfectly fits to the NS necks. Once closed they provide hermetical closure.

➤ White marking area on side wall enables easy marking and labelling.

catalogue number	Ø x H (mm)	pack quantity
037.02.254	25 x 40	1 piece
037.02.353	35 x 30	1 piece
037.02.402	40 x 25	1 piece
037.02.305	30 x 50	1 piece
037.02.503	50 x 30	1 piece
037.02.357	35 x 70	1 piece
037.02.603	60 x 30	1 piece
037.02.408	40 x 80	1 piece
037.02.803	80 x 30	1 piece
037.02.508	50 x 80	1 piece

WEIGHING PAPER

➤ Manufactured from impervious and transparent paper specially suitable for weighing.

➤ Leaves no residue and impurity during and after weighing application.

➤ Cut as 100 x 100 mm dimensions and packed as a booklet of 250 papers.

catalogue number	pack quantity
037.33.001	1 booklet

WEIGHING BRUSH

➤ Ideal tool for cleaning weighing boats, balance pans, weighing dishes and any similar object.

➤ Manufactured from extremely soft anti-static natural hair.

➤ Pointed tip provides guarantees excellent effective cleaning.

➤ Featured with a round woodned stem providing an efficient grip.

catalogue number	pack quantity
037.32.001	1 piece

BALANCES

BOECO BBY MODELS

Our professional Semi-Micro Analytical balances with internal calibration, 5,7'' colour touch screen, infrared proximity sensors, electronic level indicator, communication interfaces and data exchange through USB storage devices.

▶ Functions:
Parts Counting, Checkweighing, Dosing, Weighing in percent, Density determination (with optional kit), Animal weighing, Formulation, Statistics, Differential weighing, GLP procedures

Menu navigation selectable in 6 languages: GB / SP / D / F / I / PL

Specifiaction		BBY 21		BBY 22
Max. capacity		100 g		82 / 220 g
Minimal load		0,01g		0,01g
Readability		0,00001 g		0,00001 g
				0,0001 g
Tare range		- 100 g		- 220 g
Repeatability	50 g	0,00002 g	50 g	0,00002 g
	50 - 100 g	0,00003 g	50-82 g	0,00003 g
			82 - 220 g	0,00008 g
Linearity		± 0,00007 g		± 0,00006 g
				± 0,0002 g
Pan size		ø 85 mm		ø 85 mm
Stabilization time		5 sec.		5 sec.
Calibration		Internal (automatic)		
Interface		RS 232 / 2 x USB / Ethernet		
Display		Graphic LCD with backlight		
Working temperature		+10°C - +40°C		
Power Supply		110-230 V AC, 50/60 Hz		
Netweight / Grossweight		12,7 kgs / 16,4 Kg		
Size / Packing size		573x252x348 / 715x385x485 mm		

Model	Readability	Capacity
BBY 21	0,00001 g	100 g
BBY 22	0,00001 g	82 g
(dual range)	0,0001 g	220 g

BOECO BBX MODELS

Our advanced Semi-Micro and Analytical balances with internal calibration.

▶ Functions:
Parts Counting, Filling, Weighing in percent, Animal weighing, checking, density determination (with optional kit), Formulation, GLP procedures, underfloor weighing

Menu navigation selectable in 6 languages: GB / SP / D / F / I / PL

Specifiaction		BBX 22		BBX 31
Max. capacity		82 /220 g		310 g
Minimal load		0,001g		0,01g
Readability		0,00001 g		0,0001 g
		0,0001 g		
Tare range		- 220 g		- 310 g
Repeatability	50 g	0,00002 g	220 g	0,00008 g
	50 - 82 g	0,00003 g	220-310 g	0,0002 g
	82 - 220 g	0,00008 g		
Linearity		± 0,00006 g		± 0,0003 g
		± 0,0002 g		
Pan size		ø 85 mm		ø 100 mm
Stabilization time		5 / 3 sec.		3 sec.
Calibration		Internal (automatic)		
Interface		RS 232 / USB		
Display		Graphic LCD with backlight		
Working temperature		+10°C - +40°C		
Power Supply		110-230 V AC, 50/60 Hz		
Netweight / Grossweight		9 kgs / 12 kg		
Size / Packing size		484x202x294 / 685x405x495 mm		

Model	Readability	Capacity
BBX 22	0,00001 g	82 g
(dual range)	0,0001 g	220 g
BBX 31	0,0001 g	310 g

BOECO BAS PLUS MODELS

Our Standard Anaylitical balances with automatic internal calibration

The new Plus Version with: New display with enlarged characters, New keypad with quick access buttons, New communication interfaces 2 xUSB (1 x to work with printers with PCL protocol) (and optional WIFI)
▶ Functions: Parts Counting, weighing in percent, checking, density determination (with optional kit), GLP procedures, underfloor weighing

Specifiaction	BAS 31 plus	BAS 32 plus
Max. capacity	220 g	110 g
Minimal load	0,01g	0,01g
Readability	0,0001 g	0,0001 g
Tare range	- 220 g	- 110 g
Repeatability	0,0001 g	0,0001 g
Linearity	± 0,0002 g	± 0,0002 g
Pan size	ø 85 mm	ø 85 mm
Stabilization time	3,5 sec.	3,5 sec.
Calibration	Internal (automatic)	
Interface	2xRS232, 2xUSB(A+B), WIFI (optional)	
Display	large LCD with backlight	
Working temperature	+10°C - +40°C	
Power Supply	110-230 V AC, 50/60 Hz	
Netweight / Grossweight	5,6 kgs / 7,7 Kg	
Size / Packing size	333x210x335 / 490x400x505 mm	

Model	Readability	Capacity
BAS 31 plus	0,0001 g	220 g
BAS 32 plus	0,0001 g	110 g

Both BASplus balances are available in an optional WIFI interface version

BOECO BPS PLUS MODELS

Our Standard Precision balances with automatic internal calibration

The new Plus Version with: New display with enlarged characters, New keypad with quick access buttons, New communication interfaces 2 xUSB (1 x to work with printers with PCL protocol) and optional WIFI.
▶ Functions: Parts Counting, weighing in percent, checking, totalizing, filling, GLP procedures

Specifiaction	BPS 40 plus	BPS 41 plus	BPS 51 plus	BPS 52 plus
Max. capacity	750 g	360 g	4500 g	2100 g
Minimal load	0,02 g	0,02 g	0,5 g	0,5 g
Readability	0,001 g	0,001 g	0,01 g	0,01 g
Tare range	- 750 g	- 360 g	- 4500 g	- 2100 g
Repeatability	0,015 g	0,001 g	0,01 g	0,01 g
Linearity	± 0,003 g	± 0,002 g	± 0,02 g	± 0,02 g
Pan size	128 x 128 mm		195 x 195 mm	
Stabilization time	2 sec.		1,5 sec.	
Calibration	Internal (automatic)			
Interface	2xRS232, 2xUSB (A+B), WIFI (optional)			
Display	large LCD with backlight			
Working temperature	+10°C - +40°C			
Power Supply	110-230 V AC, 50/60 Hz			
Netweight / Grossweight	4,3 kgs / 6,3 kg		4,8 / 6,3 kg	
Size / Packing size	333x206x100/170 / 470x380x336 mm			

Model	Readability	Capacity
BPS 40 plus	0,001 g	750 g
BPS 41 plus	0,001 g	360 g

Model	Readability	Capacity
BPS 51 plus	0,01 g	4500 g
BPS 52 plus	0,01 g	2100 g

All 4 BPSplus balances are available in an optional WIFI interface version

Accessories

Code	Description
BOE KIT 85	Density determination KIT for solids and liquids for balances featuring weighing pan ø 85 and ø 100 mm
BOE KIT 128	Density determination KIT for balances with weighing pan 128 x 128 mm
BOE WINPC	BALANCE-WIN PC Software
BOE P0108	RS 232 cable (Balance - Computer)
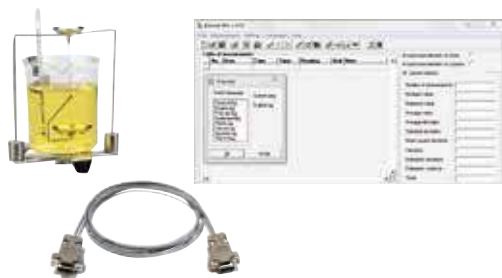
BOECO BWL MODELS

Our Basic Precision balances with external calibration and internal rechargeable accu with power charger. This makes them independent from a mains supply and therefore portable.

▶ Functions:
Parts Counting, weighing in percent, totalising, checking, animal weighing, GLP procedures, measurement in Newton,

Specifiaction	BWL 51	BWL 61	BWL 60
Max. capacity	2000 g	6000 g	10 kg
Readability	0,01 g	0,1 g	0,1 g
Tare range	- 2000 g	- 6000 g	- 10 kg
Repeatability	0,03 g	0,3 g	0,1 g
Linearity	± 0,03 g	± 0,3 g	± 0,1 g
Pan size		195 x 195 mm	
Stabilization time		3 sec.	
Calibration		external	
Interface		RS 232	
Display		LCD with backlight	
Working temperature		+15°C - +30°C	
IP rating		IP 43	
Power Supply		110-230 V AC, 50/60 Hz	
Operation time on batteries		45 hours (average time)	
Netweight / Grossweight		2,8 / 4,3 kg	
Size / Packing size		335x210x88 / 470x380x336 mm	

Model	Readability	Capacity
BWL 51	0,01 g	2000 g
BWL 61	0,1 g	6000 g
BWL 60	0,1 g	10 kg

Accessories

Code	Description
BOE F1-2000	Calibration weight, 2 kg, F1
BOE F1-5000	Calibration weight, 5 kg, F1
BOE F1-10000	Calibration weight, 10 kg, F1

BOECO BLC MODELS

Our range of low-cost balances, an alternative for most basic weighing applications.

▶ Functions:
Simple three-key operation, Large weighing pan, Energy saving mode, Usable with single 9V battery or power supply.
Multiple weigh units: Choose from: grams, ounces, pounds/ounces, pennyweight or troy ounces, Parts counting application.

The BLC 220 is supplied with a plastic windshield and an AC adaptor
The BLC 1500/BLC 3000 are supplied without battery and AC adaptor

Specifiaction	BLC 220	BLC 1500	BLC 3000
Max. capacity	220 g	1500 g	3000 g
Readability	0,01 g	0,1 g	1 g
Tare range	0-220 g	0-1500 g	0-3000 g
Repeatability	± 0,02 g	± 0,1 g	± 1 g
Linearity	± 0,02 g	± 0,1 g	± 1 g
Pan size	ø 110 mm	138 x 134 mm	
Stabilization time	4 sec.	2 sec.	
Calibration		external	
Display		LCD with LED backlight	
Working temperature		+10°C - +35°C	
Power Supply		9V/100mA battery or AC adaptor	
Netweight / Grossweight		458 g / 390 g	
Size		190x140x63 / 190x140x45 mm	

Code	Description
BOE 138134	Stainless steel platform for BLC 1500 / 3000

Model	Readability	Capacity
BLC 220	0,01 g	220 g

optional st. steel platform

Model	Readability	Capacity
BLC 1500	0,1 g	1500 g
BLC 3000	1 g	3000 g

3. Analytical measurement and testing
Balances/Weights

OIML classes

Classes of Accuracy
Nominal value — (Tolerance ±)

Nominal value	E1	E2	F1	F2	M1	M2	M3
1mg	± 0.003 mg	± 0.006 mg	± 0.020 mg	± 0.006 mg	± 0.20 mg		
2mg	± 0.003 mg	± 0.006 mg	± 0.020 mg	± 0.006 mg	± 0.20 mg		
5mg	± 0.003 mg	± 0.006 mg	± 0.020 mg	± 0.006 mg	± 0.20 mg		
10mg	± 0.003 mg	± 0.008 mg	± 0.025 mg	± 0.008 mg	± 0.25 mg		
20mg	± 0.003 mg	± 0.010 mg	± 0.03 mg	± 0.10 mg	± 0.3 mg		
50mg	± 0.004 mg	± 0.012 mg	± 0.04 mg	± 0.12 mg	± 0.4 mg		
100mg	± 0.005 mg	± 0.016 mg	± 0.05 mg	± 0.16 mg	± 0.5 mg	± 1.6 mg	
200mg	± 0.006 mg	± 0.020 mg	± 0.06 mg	± 0.20 mg	± 0.6 mg	± 2.0 mg	
500mg	± 0.008 mg	± 0.025 mg	± 0.08 mg	± 0.25 mg	± 0.8 mg	± 2.5 mg	
1g	± 0.010 mg	± 0.03 mg	± 0.10 mg	± 0.3 mg	± 1.0 mg	± 3.0 mg	± 10 mg
2g	± 0.012 mg	± 0.04 mg	± 0.12 mg	± 0.4 mg	± 1.2 mg	± 4.0 mg	± 12 mg
5g	± 0.016 mg	± 0.05 mg	± 0.16 mg	± 0.5 mg	± 1.6 mg	± 5.0 mg	± 16 mg
10g	± 0.020 mg	± 0.06 mg	± 0.20 mg	± 0.6 mg	± 2.0 mg	± 6.0 mg	± 20 mg
20g	± 0.025 mg	± 0.08 mg	± 0.25 mg	± 0.8 mg	± 2.5 mg	± 8.0 mg	± 25 mg
50g	± 0.03 mg	± 0.10 mg	± 0.3 mg	± 1.0 mg	± 3.0 mg	± 10 mg	± 30 mg
100g	± 0.05 mg	± 0.16 mg	± 0.5 mg	± 1.6 mg	± 5.0 mg	± 16 mg	± 50 mg
200g	± 0.10 mg	± 0.3 mg	± 1.0 mg	± 3.0 mg	± 10 mg	± 30 mg	± 100 mg
500g	± 0.25 mg	± 0.8 mg	± 2.5 mg	± 8.0 mg	± 25 mg	± 80 mg	± 250 mg
1kg	± 0.5 mg	± 1.6 mg	± 5.0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2kg	± 1.0 mg	± 3.0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1000 mg
5kg	± 2.5 mg	± 8.0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2500 mg
10kg	± 5.0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1600 mg	± 5000 mg
20kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1000 mg	± 3000 mg	± 10 g
50kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2500 mg	± 8000 mg	± 25 g
100kg		± 160 mg	± 500 mg	± 1600 mg	± 5000 mg	± 16 g	± 50 g
200kg		± 300 mg	± 1000 mg	± 3000 mg	± 10 g	± 30 g	± 100 g
500kg		± 800 mg	± 2500 mg	± 8000 mg	± 25 g	± 80 g	± 250 g
1000kg		± 1600 mg	± 5000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2000kg			± 10 g	± 30 g	± 100 g	± 300 g	± 1000 g
5000kg			± 25 g	± 80 g	± 250 g	± 800 g	± 2500 g

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1 Calibration weights, class M1

Brass, finely turned (also available in stainless steel). Plastic box with internal foam support available on request. Also available with internationally recognised DKD calibration certification on request.

Kern & Sohn

Weight g	Accuracy ± mg	PK	Cat. No.
1	1.0	1	**9.900 501**
2	1.2	1	**9.900 502**
5	1.5	1	**9.900 505**
10	2.0	1	**9.900 510**
20	2.5	1	**9.900 512**
50	3.0	1	**9.900 515**
100	5.0	1	**9.900 520**
200	10	1	**9.900 522**
500	25	1	**9.900 525**
1000	50	1	**9.900 531**
2000	100	1	**9.900 532**
5000	250	1	**9.900 535**
10000	500	1	**9.900 540**

Also available: Single weights from 1mg - 2000 kg or complete weight sets from 1mg - 10kg in OIML-classes E1, E2, F1, F2, M1, M2, M3.

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2 Calibration weights, class F1

Nickel plated brass (also available in stainless steel).
Plastic box with internal foam support available on request. Also available with internationally recognised DKD calibration certification on request.

Kern & Sohn

Weight g	Accuracy ± mg	PK	Cat. No.
1	0.1	1	**9.900 566**
2	0.12	1	**9.900 567**
5	0.15	1	**9.900 568**
10	0.2	1	**9.900 569**
20	0.25	1	**9.900 570**
50	0.3	1	**9.900 571**
100	0.5	1	**9.900 572**
200	1.0	1	**9.900 573**
500	2.5	1	**9.900 574**
1000	5.0	1	**9.900 575**
2000	10.0	1	**9.900 576**
5000	25.0	1	**9.900 577**
10000	50.0	1	**9.900 578**

Also available: Single weights from 1mg to 2000 kg or complete weight sets from 1 mg to 10 kg in OIML-classes E1, E2, F1, F2, M1, M2, M3

1 Undergloves, Cotton

100% Cotton. Monofilament, ideal to wear under chemical protection gloves. 1 pair per pack. **Cat. I**

Size	Length mm	PK	Cat. No.
6	250	1	6.235 155
7	250	1	7.623 809
8	250	1	9.005 222
9	250	1	7.625 555
10	250	1	7.623 881
11	250	1	7.623 810
12	250	1	9.005 223
13	250	1	6.224 187

2 Balance brush

Oval. Size 2/6mm, size 4/9mm and size 6/12mm

Type	Size	Diam. mm	PK	Cat. No.
Brush	2	6	1	6.266 807
Brush	4	9	1	6.074 169
Brush	6	12	1	6.266 808
Brush set*			1	6.266 825

*consisting of one brush each size 2/6mm, size 4/9mm and size 6/12mm

3 Forceps with silicone-coated tips, stainless steel

Kern & Sohn

Length mm	Type	PK	Cat. No.
105	for weights 1mg to 200g, for E1 to F1	1	9.900 790
250	for weights 500g to 2kg, for E1 to F1	1	6.054 809

9.900 790

4 LLG weighing scoops, porcelain

Length mm	PK	Cat. No.
37	1	9.115 350
53	1	6.241 255
64	1	9.115 351

5 Weighing scoops, stainless steel 18/10

Capacity ml	PK	Cat. No.
3	1	6.238 169
6	1	6.238 170
10	1	6.238 171

6 Weighing scoops, aluminium

Without counterweight.

Length mm	Material	PK	Cat. No.
70	Aluminium	1	9.301 006
90	Aluminium	1	9.301 008
105	Aluminium	1	9.301 010

Weighing scoops, glass

Without counterweight.

Length mm	Material	PK	Cat. No.
60	Glass	1	9.301 026
80	Glass	1	9.301 028
100	Glass	1	9.301 030

E & OE.

1 Weighing scoops, glass

Glass. Ideal for powders or granules which are dispensed via the tubular stem.

Capacity ml	PK	Cat. No.
3	1	9.301 066
6	1	9.301 067
10	1	9.301 068

2 Kjeldahl weighing boat 609, parchment paper, nitrogen-free

Ideal for weighing and transporting all types of sample. Especially for determination of nitrogen according to Kjeldahl (e.g. determination of total protein content in foodstuff).
Made of nitrogen-free parchment paper. Can be dropped into the Kjeldahl flask and be dissolved together with the sample.

GE Healthcare

Width mm	Length mm	Height mm	PK	Cat. No.
10	55	10	100	9.069 011

3 Weighing boats MN 808, Paper, nitrogen-free

Pack of 100 pieces.

MACHEREY-NAGEL

Paper
Dimensions: 58mm x 10mm x 10mm

Type	PK	Cat. No.
MN 808	100	9.301 069

Other sizes and weighing aids available on request.

4 Weighing paper MN 226

Transparent, smooth.
Block of 100 sheets.

MACHEREY-NAGEL

Type	Width mm	Length mm	PK	Cat. No.
MN 226	90	115	100	9.058 975

Further weighing aids available on request.

5 Weighing Papers

- Especially suitable for Kjeldahl digestion
- Nitrogen free for a very smooth surface and good sample recovery
- Strong enough to support dense material

Heathrow Scientific

Dimensions (D x W) mm	PK	Cat. No.
76 x 76	500	9.059 016
102 x 102	500	9.059 017
152 x 152	500	9.059 018

6 Playing card rejects

Standard size for use as disposable sample carriers or spatulas. Printed and laminated on both sides .
Pack size: 1kg, not sorted.

Type	PK	Cat. No.
Playing card rejects	1	9.190 940

E & OE.

1 LLG-Weighing bottles with NS lid, Borosilicate glass 3.3

With writing area.
Available in tall or low shape.

Form	Capacity ml	Diam. mm	Height mm	NS	PK	Cat. No.
low	6	25	25	19/12	1	**9.300 151**
low	15	35	30	29/12	1	**9.300 152**
low	15	40	25	34.5/12	1	**9.300 150**
low	30	50	30	45/12	1	**9.300 153**
low	45	60	30	50/12	1	**9.300 154**
low	80	80	30	80/12	1	**9.300 155**
tall	10	25	40	19/12	1	**9.300 160**
tall	20	30	50	24/12	1	**9.300 161**
tall	45	35	70	29/12	1	**9.300 162**
tall	70	40	80	34.5/12	1	**9.300 163**
tall	110	50	80	45/12	1	**9.300 164**

2 Weighing bottles DURAN® with NS lid

DURAN®. DIN 12605. With interchangeable NS lid. With white inscription label.
Burned-in imprint of capacity and size.
Available in high or low shape.

Form	Capacity ml	Diam. mm	Height mm	NS	PK	Cat. No.
low	6	25	25	24/12	1	**9.300 022**
low	15	40	25	40/12	1	**9.300 021**
low	15	35	30	34/12	1	**9.300 023**
low	30	50	30	50/12	1	**9.300 032**
low	45	60	30	60/12	1	**9.300 037**
low	80	80	30	80/12	1	**9.300 041**
high	10	25	40	24/12	1	**9.300 113**
high	45	35	70	34/12	1	**9.300 123**
high	70	40	80	40/12	1	**9.300 124**
high	110	50	80	50/12	1	**9.300 127**

3 LLG- Sample dishes, Aluminium

NEW!

High quality aluminium sample dishes, for moisture determination.

Diam. mm	Height mm	PK	Cat. No.
100	7	80	**6.265 408**

4 LLG-Aluminium weighing dish

Aluminium foil, for sample handling. With a flanged, crimped wall for rigidity. Finger-tab handle can be etched for identification prior to weighing (Not included on Cat. No. 6.236 854). Made from oil-free, lightweight aluminium.

Diam. mm	Height mm	PK	Cat. No.
43	12	100	**6.238 138**
57	14	100	**6.238 139**
70	16	100	**6.238 140**
101	8	50	**6.236 854**

5 LLG-Weighing boats, antistatic, PS

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases.
Temperature range -10 to +70°C. Can be used with microwave moisture analysers.
Features a diamond shape that easily flexes for accurate pouring and a wide, flat bottom to resist tipping.

Capacity ml	Dimensions mm	Colour	PK	Cat. No.
5	55 x 35 x 6	white	1000	**9.900 788**
30	78 x 56 x 14	white	500	**9.950 194**
100	119 x 90 x 19	white	250	**9.950 195**
5	55 x 35 x 6	black	1000	**9.900 801**
30	78 x 56 x 14	black	500	**9.950 196**
100	119 x 90 x 19	black	250	**9.950 197**

E & OE.

3. Analytical measurement and testing
Balances/Accessories

1 LLG-Hexagonal weighing boats, antistatic, PS

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases.
Temperature range -10 to +70°C. Can be used with microwave moisture analyzers. Bend flexible boats at points to form pour spouts. Flat bottoms to resist tipping. Sloping sides provide accurate transfer.

Size	Dimensions mm	Colour	PK	Cat. No.
Small	38 x 25 x 9	white	500	**9.900 893**
Medium	64 x 51 x 19	white	500	**9.900 894**
Large	102 x 76 x 22	white	500	**9.900 895**
X-Large	127 x 89 x 31	white	500	**9.900 896**

2 LLG-Square weighing boats, antistatic, PS

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases.
Temperature range -10 to +70°C. Can be used with microwave moisture analysers.
Boats are shallow with a wide, flat bottom to resist tipping. Rounded corners simplify transfer.

Capacity ml	Dimensions (W x D x H) mm	Colour	PK	Cat. No.
7	46 x 46 x 8	White	1000	**9.900 785**
100	85 x 85 x 24	White	1000	**9.900 786**
250	140 x 140 x 22	White	1000	**9.900 787**
7	46 x 46 x 8	Black	1000	**9.900 789**
100	85 x 85 x 24	Black	1000	**9.900 791**
250	140 x 140 x 22	Black	1000	**9.900 800**

3 Weighing bottles, PP

PP. Transparent. with push-on lid.   *Kartell*

Capacity Litres	Diam. mm	Height mm	PK	Cat. No.
30	30	50	1	**9.300 805**
25	40	30	1	**9.300 810**
65	40	60	1	**9.300 815**
65	60	35	1	**9.300 820**
50	50	30	1	**9.300 825**
200	60	90	1	**9.300 830**
400	70	120	1	**9.300 835**

4 Planar weighing apparatus

Glass. For all weighing procedures involving the dispersal of material into a thin layer.

Type	PK	Cat. No.
Planar weighing apparatus	1	**9.300 500**

5 Anti-vibration platform, Vibrasorb

For absorbing and damping vibrations down to 16Hz. Comprises of a moulded terazzo   *Bel-Art Products*
slab supported on four vibration absorbers with non-slip feet. Suitable for isolating
sensitive analytical instruments such as balances and microscopes. Will support up to 16kg.

Width mm	Depth mm	Height mm	Weight kg	PK	Cat. No.
350	350	76	19	1	**9.941 600**
450	560	76	39	1	**9.951 600**

6 Weighing tables TWK I and TWK II

NEW!

High quality, robust weighing table. Proven to avoid impact and touch vibrations.   *MAXLABO*
For use with analytical instruments. Cast stone balance plate insert 450 x 450mm mounted
shock absorbing. Stable wood-panelled steel tube construction (TWK1) or solid stone (TWK 2).
Damping ratio TWK 1: 7.5% at 5.5 to 16Hz vertical and horizontal natural frequency
Damping ratio TWK 2: 7.5% at 13 to 29Hz vertical and horizontal natural frequency

Type	Dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
TWK I	900 x 600 x 750	120	1	**9.733 060**
TWK II	900 x 600 x 750	260	1	**9.733 070**

E & OE.