

# Laboratory Balances

- ▶ Made in Germany
- ▶ 3 years warranty
- ▶ First quality at affordable prices
- ▶ 19 models
- ▶ Readability from 1g up to 0,00001g
- ▶ Manufactured under ISO 9000
- ▶ CE mark for electromagnetic compatibility





**BBC 22**  
**BBC 31**  
**BBC 32**

The BBC balances are equipped with fully automatic, internal calibration, which provides an optimal weighing reliability at any place of installation because of the built-in highly accurate motorized calibration weight. Self-calibration at the touch of a key!

## BBC Models with automatic internal calibration

Model	Readability	Capacity	Pan size
BBC 22	0,00001 / 0,0001 g	60 / 210 g	80 mm Ø (dual range)
BBC 31	0,0001 g	220 g	80 mm Ø
BBC 32	0,0001 g	120 g	80 mm Ø
BBC 41	0,001 g	410 g	115 mm Ø
BBC 51	0,01 g	4100 g	180 x 180 mm



**BBC 41**  
**BBA 41**

## BBA Models with automatic external calibration

Model	Readability	Capacity	Pan size
BBA 41	0,001 g	410 g	115 mm Ø
BBA 51	0,01 g	4100 g	180 x 180 mm

The BBC/BBA analytical balances feature the latest edition of monolithic weighing technology. The BBA/BBC 41/51 models feature the latest edition of double lever weighing technology.

The BBC/BBA balances offer various application programmes:

- ▶ counting
- ▶ weighing in percent
- ▶ net total formulation
- ▶ mass unit conversion by toggling
- ▶ animal weighing
- ▶ different weight units (Grains, Pounds, Carats etc...)



**BBC 51**  
**BBA 51**

The BBC and BBA balances are equipped with a RS-232 C interface port; overload protection; hanger for below-balance weighing; jack for connecting a rechargeable battery pack, AC adapter.

## Accessories for BBC/BBA balances

SBP 01	Rechargeable battery pack (external)
SDK 01	Kit for determination of density and the specific weight of solids and liquids. For models BBC 22, BBC 31, BBC 32
SWE 43	Calibration weight, 200 g; F1 for model BBA 41
SWE 42	Calibration weight, 2000 g; F1 for model BBA 51
SPR 02	Printer (see also last page)



**SBP 01**

**SDK 01**



BBL 31  
BBL 32



BBL 42



BBL 53  
BBL 54



BBL 52  
BBL 61  
BBL 62  
BBL 63  
BBL 64  
BBL 71



Calibration  
weights



The BBL balances Series gives you reliable weighing technology, speed, stability and high-quality craftsmanship with excellent price / performance in a really compact package.

The analytical balances feature a Monolithic Double Lever System. The precision balances a strain gauge weighing system,

All Models provide automatic calibration by a external calibration weight.

The display is easy to read and the keys for control are logically arranged.

The BBL balances offer various application programmes:

- ▶ counting
- ▶ weighing in percent
- ▶ net total formulation
- ▶ mass unit conversion by toggling
- ▶ animal weighing
- ▶ different weight units (Grains, Pounds, Carats etc...)

Although BBL balances are fully equipped laboratory balances they may be called „portables“, because they can weigh using a standard 9-V block battery installed inside the balance (except for BBL 31, 32, 42 and BBL 52) instead of using an AC outlet. The balance shuts off automatically after 2 minutes of non-use to extend the battery life.

The BBL balances can be equipped optionally with a RS-232 interface for a connection with a printer or PC.

Model	Readability	Capacity	Pan size
BBL 31	0,0001 g	210 g	80 mm Ø
BBL 32	0,0001 g	120 g	80 mm Ø
BBL 42	0,001 g	150 g	100 mm Ø
BBL 52	0,01 g	1500 g	174 x 143 mm
BBL 53	0,01 g	610 g	116 mm Ø
BBL 54	0,01 g	310 g	116 mm Ø
BBL 61	0,1 g	6100 g	174 x 143 mm
BBL 62	0,1 g	3100 g	174 x 143 mm
BBL 63	0,1 g	1500 g	174 x 143 mm
BBL 64	0,1 g	600 g	174 x 143 mm
BBL 71	1,0 g	6000 g	174 x 143 mm

All BBL models are supplied with jack for connecting a rechargeable battery pack and an AC adapter.

## Accessories for BBL balances

SBP 05	Rechargeable battery pack (external)
SDA 02	RS-232 interface, for precision balances
SDA 03	RS-232 interface, for analytical balances
SWE 21	Calibration weight, 200 g; E2 for model BBL 31
SWE 22	Calibration weight, 100 g; E2 for model BBL 32
SWE 63	Calibration weight, 100 g; F2 for models BBL 41, BBL 54
SWE 62	Calibration weight, 500 g; F2 for models BBL 53, BBL 64
SWE 63	Calibration weight, 1000 g; F2 for models BBL 63, BBL 62
SWE 45	Calibration weight, 100 g; F1 for model BBL 42
SWE 44	Calibration weight, 1000 g; F1 for model BBL 54
SWE 41	Calibration weight, 5000 g; F1 for models BBL 71, BBL 61

# Moisture analyzer SMO 01



The comfortable way to determine moisture content of water, alcohol, fat, oil, etc., in

- ▶ food
- ▶ construction materials
- ▶ wood or paper
- ▶ chemicals or pharmaceuticals
- ▶ enviromental analysis

The SMO 01 moisture analyzer is fast, reliable, fully automatic and easy to use. After lowering the hood, two powerful infrared dark radiators begin drying the sample. Featuring high milligram accuracy, it provides absolute reproducibility. The results can be printed in compliance with ISO standards. The SMO 01 displays the results in % moisture, % dry weight, as a ratio - or as the weight itself.



## Specification

Accuracy	1 mg
Reproducibility: Initial sample wt. from 1g and up	± 0,2 %
Initial sample wt. from 5g and up	± 0,05 %
Readability	0,01 %
Max. weighing capacity	30 g
Timer setting	0,1-99 min.
Temperature setting in 5-degree increments	40-160 C°
Interface port for data transfer to a printer	RS-232 C
Housing (W x D x H)	217 x 283 x 165 mm

## Printer SPR 02 for all BOECO balances (for BBL models optional interface SDA 02 or SDA03 required)

SPR 02	Printer with GLP/GMB function, date, time and statistical evaluation
SPR 01-1	Spare set of paper rolls ( 5 per box)
SPR 01-2	Spare ink ribbon cassette

## Accessories for SMO 01

SMO 01-1	Round, aluminium sample pans (box of 80)
SMO 01-2	Glass fiber filters (box of 80)
SMO 01-3	Calibration weight, 30 g

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We reserve the right to make changes in technical specification.