

06

Bench scales

Compact industrial weighing technology

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, PRE-TARE – subtraction of a known container weight, or ► **interfaces** to PC and printer, all these support the users in their daily work.

► **Dual range** scales cover a particularly wide range of applications. With these scales, the total weighing range is divided into 2 subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, see page 184.

Touchscreen balances

The newest development for an even greater level of user-friendliness is the intuitive touchscreen operation, which is being integrated into new KERN models, see page 58/59 (FKT), 108/109 (IKT).

NOTE: a high-quality touchscreen bench scale range (KERN GAT, page 60/61) and touchscreen platform scale range (KERN IFT, page 110/111). Thanks to the intuitive touchscreen concept and multi-lingual operation (DE, EN, IT, ES, PT, NL, FI, PL, RUS, SE, CZ) the balances can be used easily by inexperienced users, straightaway. For the professional user, the balances also provide convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker. Through a large memory, e.g. for item master data, weighing data etc. the balances are the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation. Thanks to the high level of connectivity it is easy to connect barcode readers for item recognition, USB sticks for data storage or data transfer to PCs and networks using RS 232 or USB and this means that this range can be used for many different functions in Industry 4.0 applications.

► **See the glossary on page 223–225**

from €
300,-













KERN FKB-A

Page 55

- Simple and convenient 5-key operation
- Very fast display
- High mobility

Quick-Finder Bench scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D mm	Model KERN	Price excl. of VAT ex works €	Page										
For an explanation on the pictos, see front flap															
0,02	6	340×240	FKB 6K0.02	520,-	57	1		●		●	●		●	●	○
0,05	6	294×225	GAB 6K0.05N	295,-	56	1		●		●	●	●			○
0,05	8	340×240	FKB 8K0.05	480,-	57	1		●		●	●		●	●	○
0,05	16	340×240	FKB 16K0.05	580,-	57	1		●		●	●		●	●	○
0,1	3	253×227	FCB 3K0.1	215,-	54	1		●		●	●		●	●	○
0,1	8	253×227	FCB 8K0.1	240,-	54	1		●		●	●		●	●	○
0,1	8	340×240	FKB 8K0.1A	350,-	55	1		●		●	●		●	●	○
0,1	12	294×225	GAB 12K0.1N	295,-	56	1		●		●	●	●			○
0,1	16	340×240	FKB 16K0.1	480,-	57	1		●		●	●		●	●	○
0,1	36	340×240	FKB 36K0.1	550,-	57	1		●		●	●		●	●	○
0,2	30	294×225	GAB 30K0.2N	295,-	56	1		●		●	●	●			○
0,2	36	340×240	FKB 36K0.2	510,-	57	1		●		●	●		●	●	○
0,2	65	340×240	FKB 65K0.2	550,-	57	1		●		●	●		●	●	○
0,5	6	253×227	FCB 6K0.5	195,-	54	1		●		●	●		●	●	○
0,5	15	340×240	FKB 15K0.5A	350,-	55	1		●		●	●		●	●	○
1	3	252×228	FCE 3K1N	110,-	53	1		●						●	○
1	12	253×227	FCB 12K1	185,-	54	1		●		●	●		●	●	○
1	15	340×240	FKB 15K1A	260,-	55	1		●		●	●		●	●	○
1	30	253×227	FCB 30K1	220,-	54	1		●		●	●		●	●	○
1	30	340×240	FKB 30K1A	300,-	55	1		●		●	●		●	●	○
1	65	340×240	FKB 65K1A	320,-	55	1		●		●	●		●	●	○
1 2	3 6	295×225	GAB 6K1DNM	225,-	56	1	○	●		●	●	●			○
2	6	252×228	FCE 6K2N	110,-	53	1		●						●	○
2	24	253×227	FCB 24K2	185,-	54	1		●		●	●		●	●	○
2 5	6 15	300×230	GAB 15K2DNM	225,-	56	1	○	●		●	●	●			○
5	10	320×260	ECE 10K-3N	95,-	52	1		●						●	○
5	10	320×260	ECB 10K-3N	110,-	52	1		●						●	○
5	15	252×228	FCE 15K5N	110,-	53	1		●						●	○
5 10	15 30	294×225	GAB 30K5DNM	225,-	56	1	○	●		●	●	●			○
10	20	320×260	ECE 20K-2N	95,-	52	1		●						●	○
10	20	320×260	ECB 20K-2N	110,-	52	1		●						●	○
10	30	252×228	FCE 30K10N	110,-	53	1		●						●	○
20	50	320×260	ECE 50K-2N	95,-	52	1		●						●	○
20	50	320×260	ECB 50K-2N	110,-	52	1		●						●	○

● = standard ○ = option



06

Plain, mobile, uncomplicated

Features

- 2 High mobility: Battery operation, compact, lightweight construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- Particularly large weighing plate
- Very fast display: steady weight values within 2 s
- Simple and convenient 2-key operation

Technical data

- KERN ECB-N: Large backlit LCD display, digit height 21 mm
- KERN ECE-N: Large LCD display, digit height 21 mm
- Dimensions weighing surface W×D 320×260 mm
- Weighing plate material
 - KERN ECE-N: plastic
 - KERN ECB-N: stainless steel, see larger picture
- Overall dimensions W×D×H 320×300×60 mm
- Optional battery operation, 6×1.5 V AA, standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
- Net weight
 - KERN ECE-N: approx. 1,6 kg
 - KERN ECB-N: approx. 2,6 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 75,-**
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- Tare pan made from stainless steel. Ideal for weighing loose small parts, fruit, vegetables, etc., KERN RFS-A02, **€ 55,-**
- External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N, **€ 32,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

BATT

DMS

1 DAY

OPTION

ACCU

MULTI

DAkKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option	
						DAkKS KERN	DAkKS Calibr. Certificate €
KERN							
ECE 10K-3N	10	5	5	± 20	95,-	963-128	94,-
ECE 20K-2N	20	10	10	± 40	95,-	963-128	94,-
ECE 50K-2N	50	20	20	± 80	95,-	963-128	94,-
ECB 10K-3N	10	5	5	± 20	110,-	963-128	94,-
ECB 20K-2N	20	10	10	± 40	110,-	963-128	94,-
ECB 50K-2N	50	20	20	± 80	110,-	963-128	94,-



06

Entry-level bench scale – mobile, practical, lightweight

Features

- Simple and convenient 2-key operation
- Very fast display: steady weight values within 3 s
- **1** Ideal as a compact letter and parcel scale, especially where space is limited
- **2** Ideal as a grading, commissioning or simple checkweighing scale in production or dispatch
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Dimensions weighing surface, plastic, W×D 252×228 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 pieces, KERN FCB-A02S05, **€ 40,-**
- **B** Stainless steel weighing plate, robust, removable, for easy cleaning, KERN FCE-A01, **€ 35,-**
- Internal rechargeable battery pack, operating time up to 20 h, without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**

STANDARD

OPTION

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option	
						DAkkS Calibr. Certificate	
						DAkkS KERN	€
FCE 3K1N	3	1	2	± 3	110,-	963-127	78,-
FCE 6K2N	6	2	2	± 4	110,-	963-128	94,-
FCE 15K5N	15	5	10	± 15	110,-	963-128	94,-
FCE 30K10N	30	10	10	± 30	110,-	963-128	94,-



Bench scale with second display on the backside of the scale

Features

- **1** Second display on the rear of the balance
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- High mobility: thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- Data interface RS-232 standard
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 25 mm
- Dimensions of weighing surface, stainless steel, W×D 253×227 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h
- Net weight approx. 2,6 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 pieces, KERN FCB-A02S05, **€ 40,-**
- Internal rechargeable battery pack, operating time up to 10 h, without backlight, charging time approx. 10 h., KERN FCB-A01, **€ 50,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

RS 232

PCS

RECIPE

PERCENT

UNIT

MOVE

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAKKS KERN	DAKKS Calibr. Certificate €
KERN								
FCB 3K0.1	3	0,1	0,1	± 0,3	2	215,-	963-127	78,-
FCB 8K0.1	8	0,1	0,1	± 0,3	2	240,-	963-128	94,-
FCB 6K0.5	6	0,5	0,5	± 1,5	10	195,-	963-128	94,-
FCB 12K1	12	1	1	± 3	20	185,-	963-128	94,-
FCB 30K1	30	1	1	± 3	20	220,-	963-128	94,-
FCB 24K2	24	2	2	± 6	40	185,-	963-128	94,-



Bench scale up to 65 kg with large weighing plate

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- **1** Particularly practical: thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.
- Large, robust weighing plate made from stainless steel, can be removed and therefore is easy to clean
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Overall dimensions W×D×H 348×390×113 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h
- Net weight approx. 6 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN FKB-A02S05, **€ 40,-**
- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 75,-**
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN CKE-A02, **€ 65,-**
- WiFi data interface for wireless data transmission from balance to printer, PC or other peripheral devices, must be ordered at purchase, KERN YMI-A01, **€ 90,-**
- Ethernet interface to connect to an IP-based Ethernet network, must be ordered at purchase, KERN FKB-A01, **€ 30,-**
- Tare pan made from stainless steel. Ideal for weighing loose small parts, fruit, vegetables etc. W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

RS 232

PCS

RECIPE

PERCENT

UNIT

MOVE

UNDER

BATT

MULTI

DMS

1 DAY

OPTION

ACCU



DAkKS +3 DAYS

FACTORY

USB

LAN

WIFI

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAkKS Calibr. Certificate	
							DAkKS KERN	€
KERN								
FKB 8K0.1	8	0,1	0,1	± 0,3	2	350,-	963-128	94,-
FKB 15K0.5	15	0,5	0,5	± 1,5	10	350,-	963-128	94,-
FKB 30K1	30	1	1	± 3	20	300,- 	963-128	94,-
FKB 65K1	65	1	1	± 3	20	320,- 	963-129	116,-

Price reduction



Checkweighing and portioning scale, also with EC type approval [M]

Features

- Compact size, practical for small spaces
- High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Totalising of weights
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 24 mm
- Dimensions weighing surface W×D 295×225 mm
- Overall dimensions W×D×H, 320×345×125 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature
GAB-N: 0 °C/40 °C
GAB-DNM: -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- Signal lamp for visual support of weighing with tolerance range, only in combination with, KERN CFS-A03, **€ 250,-**

- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 35,-**
- Tare pan made from stainless steel. Ideal for weighing loose small parts, fruit, vegetables, etc., KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Application examples

- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- Mobile weighing of freshly picked fruit on site
- Checkweigher in supermarkets
- High-precision industrial applications, piece counting or stock-taking

Note: Official verification duty for commercial trade

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option			
							Verification	€	DAKKS Calibr. Certificate	
KERN								€	DAKKS KERN	€
GAB 6K0.05N	6	0,05	-	-	0,5	295,-	-	-	963-128	94,-
GAB 12K0.1N	12	0,1	-	-	1	295,-	-	-	963-128	94,-
GAB 30K0.2N	30	0,2	-	-	2	295,-	-	-	963-128	94,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]										
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										
Verification at the factory, we need to know the full address of the location of use.										
GAB 6K1DNM	3 6	1 2	1 2	20	2	225,-	965-228	70,-	963-128	94,-
GAB 15K2DNM	6 15	2 5	2 5	40	5	225,-	965-228	70,-	963-128	94,-
GAB 30K5DNM	15 30	5 10	5 10	100	10	225,-	965-228	70,-	963-128	94,-



Large, high resolution bench scale

Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Housing with robust aluminium diecast housing trough, maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Particularly practical: thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else

- Model with resolution > 240,000 Pt.: Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Dimensions housing W×D×H, 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included in scope of delivery, operating time up to 40 h
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN FKB-A02S05, **€ 40,-**
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN CKE-A02, **€ 65,-**
- WiFi data interface for wireless data transmission from balance to printer, PC or other peripheral devices, must be ordered at purchase, KERN YMI-A01, **€ 90,-**
- Ethernet interface to connect to an IP-based Ethernet network, must be ordered at purchase, KERN FKB-A01, **€ 30,-**
- Tare pan made from stainless steel. Ideal for weighing loose small parts, fruit, vegetables etc. W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

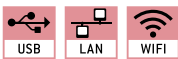
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Option	
							DAkKS KERN	Certificate €
KERN								
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	520,-	963-128	94,-
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	480,-	963-128	94,-
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	580,-	963-128	94,-
FKB 16K0.1	16	0,1	0,1	± 0,3	1	480,-	963-128	94,-
FKB 36K0.1	36	0,1	0,2	± 0,5	1	550,-	963-128	94,-
FKB 36K0.2	36	0,2	0,2	± 0,6	2	510,-	963-128	94,-
FKB 65K0.2	65	0,2	0,4	± 1	2	550,-	963-129	116,-