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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.

► **Multi-division balances and multi-range balances** cover a particularly wide range of applications. With these scales, the total weighing range is divided into 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. This way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. See *Test weights*

► **See the Glossary**

PRECISION

Quick-Finder Bench Scales

Readout	Weighing range	Weighing plate	Model	Page	M	CAL EXT	RS 232	KUP	PCS	TOL	MOVE	BATT	ACCU
[d] g	[Max] kg	W×D mm	KERN		For an explanation on the pictos, see the front flap								
0,02	6	340×240	FKB 6K0.02	62	●	○	●	●	●	●	●	●	○
0,05	6	252×225	FCB 6K-5	61	●	○	●	●	●	●	●	●	○
0,05	8	340×240	FKB 8K0.05	62	●	○	●	●	●	●	●	●	○
0,05	16	340×240	FKB 16K0.05	62	●	○	●	●	●	●	●	●	○
0,1	8	252×225	FCB 8K0.1	61	●	○	●	●	●	●	●	●	○
0,1	8	340×240	FKB 8K0.1	62	●	○	●	●	●	●	●	●	○
0,1	12	252×225	FCB 12K-4	61	●	○	●	●	●	●	●	●	○
0,1	16	340×240	FKB 16K0.1	62	●	○	●	●	●	●	●	●	○
0,1	36	340×240	FKB 36K0.1	62	●	○	●	●	●	●	●	●	○
0,2	30	252×225	FCB 30K-4	61	●	○	●	●	●	●	●	●	○
0,2	36	340×240	FKB 36K0.2	62	●	○	●	●	●	●	●	●	○
0,2	65	340×240	FKB 65K0.2	62	●	○	●	●	●	●	●	●	○
0,5	15	340×240	FKB 15K0.5	62	●	○	●	●	●	●	●	●	○
1	3	253×228	FCE 3K1N	60	●	○	●	●	●	●	●	●	○
1	12	252×225	FCB 12K1	61	●	○	●	●	●	●	●	●	○
1	30	252×225	FCB 30K1	61	●	○	●	●	●	●	●	●	○
1	30	340×240	FKB 30K1	62	●	○	●	●	●	●	●	●	○
1	65	340×240	FKB 65K1	62	●	○	●	●	●	●	●	●	○
1 2	3 6	252×225	FCB 6K-3DM	300,-	○	○	○	○	○	○	○	○	○
2	6	253×228	FCE 6K2N	60	●	○	●	●	●	●	●	●	○
2 5	6 15	252×225	FCB 15K-3DM	300,-	○	○	○	○	○	○	○	○	○
5	10	320×260	ECE 10K-3N	59	●	○	●	●	●	●	●	●	○
5	10	320×260	ECB 10K-3N	59	●	○	●	●	●	●	●	●	○
5	15	253×228	FCE 15K5N	60	●	○	●	●	●	●	●	●	○
5 10	15 30	252×225	FCB 30K-3DM	300,-	○	○	○	○	○	○	○	○	○
10	20	320×260	ECE 20K-2N	59	●	○	●	●	●	●	●	●	○
10	20	320×260	ECB 20K-2N	59	●	○	●	●	●	●	●	●	○
10	30	253×228	FCE 30K10N	60	●	○	●	●	●	●	●	●	○
20	50	320×260	ECE 50K-2N	59	●	○	●	●	●	●	●	●	○
20	50	320×260	ECB 50K-2N	59	●	○	●	●	●	●	●	●	○

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● Standard ○ Option



Plain, mobile, uncomplicated

Features

- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Particularly large weighing plate
- Very fast display: steady weight values within 2 s
- Simple and convenient 2-key operation

Technical data

- 1 KERN ECE**
- Large LCD display, digit height 21 mm
 - Dimensions weighing surface, plastic, W×D 320×260 mm
 - Net weight approx. 1,6 kg
- KERN ECB, see larger picture**
- Large backlit LCD display, digit height 21 mm
 - Dimensions weighing surface, stainless steel, W×D 320×260 mm
 - Net weight approx. 2,6 kg
- KERN ECE/ECB**
- Overall dimensions W×D×H 320×300×60 mm
 - Battery operation, 6×1.5 V AA standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
 - 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
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-03N
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD				OPTION		
CAL EXT	BATT	DMS	1 DAY	ACCU	MULTI	DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Options
					DAkKS Calibr. Certificate
					DAkKS KERN
ECE 10K-3N	10	5	5	± 20	963-128
ECE 20K-2N	20	10	10	± 40	963-128
ECE 50K-2N	50	20	20	± 80	963-128
					963-128
ECB 10K-3N	10	5	5	± 20	963-128
ECB 20K-2N	20	10	10	± 40	963-128
ECB 50K-2N	50	20	20	± 80	963-128



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, WxD 253x228 mm
- Overall dimensions WxDxH 270x323x110 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 items, KERN FCB-A02S05
- **3** Stainless steel weighing plate, robust, removable, for easy cleaning, KERN FCE-A01
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Options
					DAkkS Calibr. Certificate
KERN					DAkkS KERN
FCE 3K1N	3	1	2	± 3	963-127
FCE 6K2N	6	2	2	± 4	963-128
FCE 15K5N	15	5	10	± 15	963-128
FCE 30K10N	30	10	10	± 30	963-128



The new FCB: Checkweighing and portioning scale with up to three interfaces, with optional verification

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Compact size
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay. Available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers. For further information on KUP and KCP see page 18/19
- Thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 252x225 mm
- Overall dimensions WxDxH 322x267x91 mm
- Net weight approx. 3,8 kg
- Permissible ambient temperature
KERN FCB: 0 °C/40 °C
KERN FCB-M: -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A14S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- Signal lamp for visual support of weighing with tolerance range. connection is only possible in combination with KUP-01 (RS-232 interface), KERN CFS-A03
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Ethernet interface adapter, KERN KUP-04
- WiFi interface adapter, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

FCB-M		FCB-M		FCB						FCB				

OPTION

							+3 DAYS		FCB-M	

FACTORY

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Options	
						Verification	DAkKS Calibr. Certificate
KERN							DAkKS
FCB 6K-5	6	0,05	-	-	0,5	KERN	KERN
FCB 8K0.1	8	0,1	-	-	1	-	963-128
FCB 12K-4	12	0,1	-	-	1	-	963-128
FCB 12K1	12	1	-	-	10	-	963-128
FCB 30K-4	30	0,2	-	-	2	-	963-128
FCB 30K1	30	1	-	-	10	-	963-128
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].							
FCB 6K-3DM	3 6	1 2	1 2	20	2	965-228	963-128
FCB 15K-3DM	6 15	2 5	2 5	40	5	965-228	963-128
FCB 30K-3DM	15 30	5 10	5 10	100	10	965-228	963-128

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

New model



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, 350×390×120 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 7 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

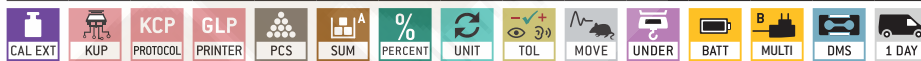
- Protective working cover, scope of delivery 5 items, KERN FKB-A02S05
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- Schnittstellenadapter USB, KERN KUP-03
- Schnittstellenadapter RS-232, KERN KUP-01
- Bluetooth interface adapter, KERN KUP-06
- WiFi interface adapter, KERN KUP-05
- Ethernet interface adapter, KERN KUP-04
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02
- Further details, plenty of further accessories and suitable printers see *Accessories*

High resolution bench scale with large weighing range and robust stainless steel weighing plate

Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Robust plastic die-cast housing: maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- 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
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Resolution Points	Options
							DAkKS Calibr. Certificate
KERN							DAkKS KERN
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	300.000	963-128
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	160.000	963-128
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	320.000	963-128
FKB 8K0.1	8	0,1	0,1	± 0,3	1	80.000	963-128
FKB 16K0.1	16	0,1	0,1	± 0,3	1	160.000	963-128
FKB 15K0.5	15	0,5	0,5	± 1,5	10	30.000	963-128
FKB 36K0.1	36	0,1	0,2	± 0,5	1	360.000	963-128
FKB 36K0.2	36	0,2	0,4	± 1	2	180.000	963-128
FKB 65K0.2	65	0,2	0,4	± 1	2	325.000	963-129
FKB 30K1	30	1	1	± 3	20	30.000	963-128
FKB 65K1	65	1	1	± 3	20	65.000	963-129