6

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*

Quick-Finder Bench Scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D mm	Model KERN	Page	DAYS	M	CAL EXT	RS 232	KUP	PCS	TOL	MOVE	BATT	ACCU
							For an explanation on the pictos, see the front flap							
0,02	6	340×240	**FKB 6K0.02**	62	1		●	○	●	●	●	○	●	○
0,05	6	252×225	**FCB 6K-5**	61	1		●	○	●	●	●	○	●	○
0,05	6	295×225	**GAB 6K0.05N**	64	1		●	●		●	●			○
0,05	8	340×240	**FKB 8K0.05**	62	1		●	○	●	●	●	○	●	○
0,05	16	340×240	**FKB 16K0.05**	62	1		●	○	●	●	●	○	●	○
0,1	8	252×225	**FCB 8K0.1**	61	1		●	○	●	●	●	○	●	○
0,1	8	340×240	**FKB 8K0.1**	62	1		●	○	●	●	●	○	●	○
0,1	12	252×225	**FCB 12K-4**	61	1		●	○	●	●	●	○	●	○
0,1	12	295×225	**GAB 12K0.1N**	64	1		●	●		●	●			○
0,1	16	340×240	**FKB 16K0.1**	62	1		●	○	●	●	●	○	●	○
0,1	36	340×240	**FKB 36K0.1**	62	1		●	○	●	●	●	○	●	○
0,2	30	252×225	**FCB 30K-4**	61	1		●	○	●	●	●	○	●	○
0,2	30	295×225	**GAB 30K0.2N**	64	1		●	●		●	●			○
0,2	36	340×240	**FKB 36K0.2**	62	1		●	○	●	●	●	○	●	○
0,2	65	340×240	**FKB 65K0.2**	62	1		●	○	●	●	●	○	●	○
0,5	15	340×240	**FKB 15K0.5**	62	1		●	○	●	●	●	○	●	○
1	3	253×228	**FCE 3K1N**	60	1		●						●	○
1	12	252×225	**FCB 12K1**	61	1		●	○	●	●	●	○	●	○
1	30	252×225	**FCB 30K1**	61	1		●	○	●	●	●	○	●	○
1	30	340×240	**FKB 30K1**	62	1		●	○	●	●	●	○	●	○
1	65	340×240	**FKB 65K1**	62	1		●	○	●	●	●	○	●	○
1 | 2	3 | 6	295×225	**GAB 6K1DNM**	64	1	○	●	●		●				○
2	6	253×228	**FCE 6K2N**	60	1		●						●	
2 | 5	6 | 15	295×225	**GAB 15K2DNM**	64	1	○	●	●		●	●			○
5	10	320×260	**ECE 10K-3N**	59	1		●						●	○
5	10	320×260	**ECB 10K-3N**	59	1		●						●	○
5	15	253×228	**FCE 15K5N**	60	1		●						●	○
5 | 10	15 | 30	295×225	**GAB 30K5DNM**	64	1	○	●	●		●	●			○
10	20	320×260	**ECE 20K-2N**	59	1		●						●	○
10	20	320×260	**ECB 20K-2N**	59	1		●						●	○
10	30	253×228	**FCE 30K10N**	60	1		●						●	○
20	50	320×260	**ECE 50K-2N**	59	1		●						●	○
20	50	320×260	**ECB 50K-2N**	59	1		●						●	○

☐ News 2024   ● Standard ○ Option

6

Plain, mobile, uncomplicated

Features

- 2 High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, ware-house, 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

| CAL EXT | BATT | DMS | 1 DAY |

OPTION

| ACCU | B MULTI | DAkkS +3 DAYS |

Model	Weighing capacity	Readability	Reproducibility	Linearity	Options
					DAkkS Calibr. Certificate
	[Max]	[d]			DAkkS
KERN	kg	g	g	g	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
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

6

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, comissioning 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 253×228 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 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	
CAL EXT	BATT	MULTI	DMS	1 DAY	ACCU	DAkkS +3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Options
					DAkkS Calibr. Certificate
	[Max]	[d]			DAkkS
KERN	kg	g	g	g	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

! * ONLY WHILE STOCKS LAST

NEW

1

2

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

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, practical for small spaces
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- For further information on KUP and KCP see page 20/21
- 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.)

- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- Summation of weight values
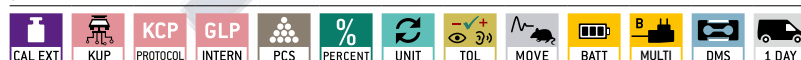- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, W×D 252×225 mm
- Overall dimensions W×D×H 322×267×91 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 3,8 kg
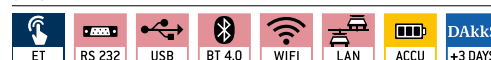- Permissible ambient temperature 0 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A14S05
- 1 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
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01
- External data interface RS-232, interface cable included, KERN KUP-01
- External data interface USB, interface cable included, KERN KUP-03
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- 2 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

| CAL EXT | KUP | KCP PROTOCOL | GLP INTERN | PCS | PERCENT | UNIT | TOL | MOVE | BATT | MULTI | DMS | 1 DAY |

OPTION

| ET | RS 232 | USB | BT 4.0 | WIFI | LAN | ACCU | DAkkS +3 DAYS |

Model KERN		Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Resolution Points	Options DAkkS Calibr. Certificate DAkkS KERN
FCB 6K-5	NEW	6	0,05	0,05	± 0,15	0,5	120.000	963-128
FCB 8K0.1	NEW	8	0,1	0,1	± 0,3	1	80.000	963-128
FCB 12K-4	NEW	12	0,1	0,1	± 0,3	1	120.000	963-128
FCB 12K1	NEW	12	1	1	± 3	10	12.000	963-128
FCB 30K-4	NEW	30	0,2	0,2	± 0,6	2	150.000	963-128
FCB 30K1	NEW	30	1	1	± 3	10	30.000	963-128

NEW **New model**

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
- Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WiFi, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones,

tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.
Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale
- 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

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
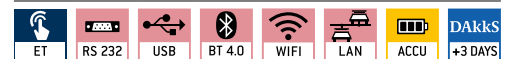- Permissible ambient temperature -10 °C/40 °C

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
- External data interface USB, interface cable included, KERN KUP-03
- External data interface RS-232, interface cable included, KERN KUP-01
- Interface adapter Ethernet, KERN KUP-04
- Interface adapter WiFi, KERN KUP-05
- Bluetooth interface adapter, KERN KUP-06
- 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*

❶ 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.

6

STANDARD

| CAL EXT | KUP | KCP PROTOCOL | GLP PRINTER | PCS | SUM | PERCENT | UNIT | TOL | MOVE | UNDER | BATT | MULTI | DMS | 1 DAY |

OPTION

| ET | RS 232 | USB | BT 4.0 | WIFI | LAN | ACCU | DAkkS +3 DAYS |

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Smallest part weight (Normal)	Resolution	Options DAkkS Calibr. Certificate DAkkS
KERN	kg	g	g	g	g/piece	Points	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

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 is mandatory for commercial trade

6

Checkweighing and portioning scale, verification optional

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
- Summation of weight values
- Protective working cover included with delivery

Technical data
- Large backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, W×D 295×225 mm
- Overall dimensions W×D×H 315×350×125 mm
- Net weight approx. 3,0 kg
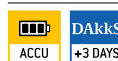- Permissible ambient temperature 0 °C/40 °C

Accessories
- Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05
- Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04
- **1** Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03
- **2** 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
- 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*

STANDARD									OPTION		FACTORY
CAL EXT	RS 232	PCS	SUM	PERCENT	UNIT	TOL	MULTI	DMS	1 DAY	ACCU	DAkkS +3 DAYS	M +3 DAYS GAB-DNM

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Verification M KERN	Options DAkkS Calibr. Certificate DAkkS KERN
GAB 6K0.05N*	6	0,05	-	-	0,5	-	963-128
GAB 12K0.1N*	12	0,1	-	-	1	-	963-128
GAB 30K0.2N*	30	0,2	-	-	2	-	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].							
GAB 6K1DNM*	3 | 6	1 | 2	1 | 2	20	2	965-228	963-128
GAB 15K2DNM*	6 | 15	2 | 5	2 | 5	40	5	965-228	963-128
GAB 30K5DNM*	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.

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