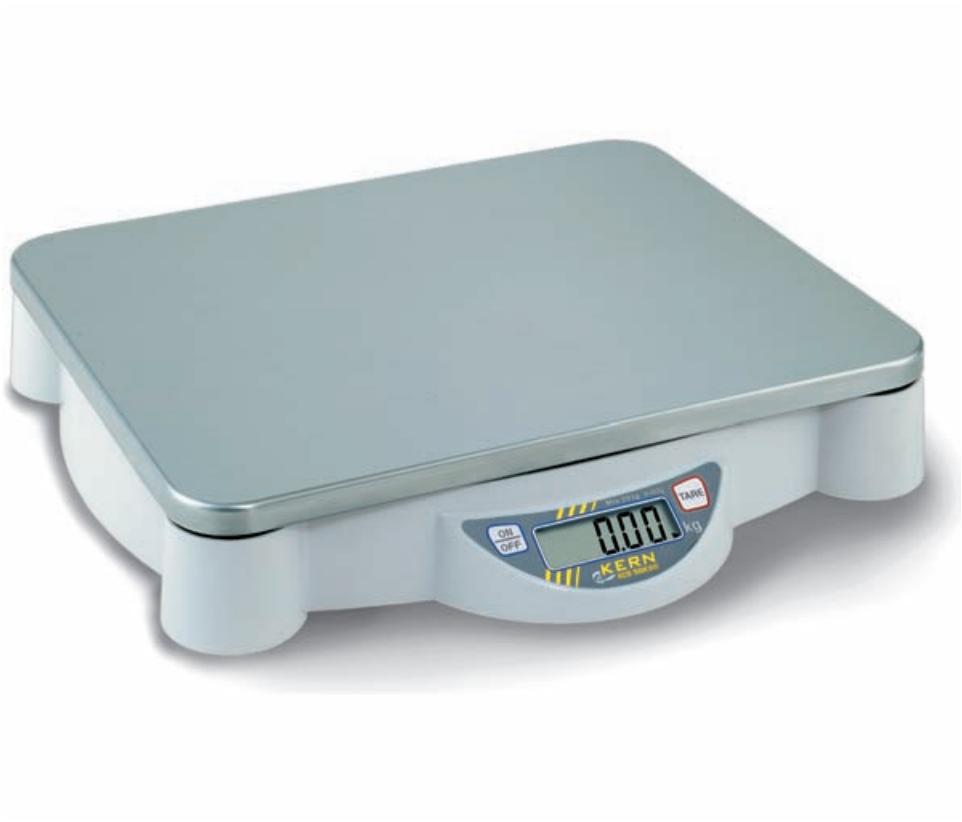
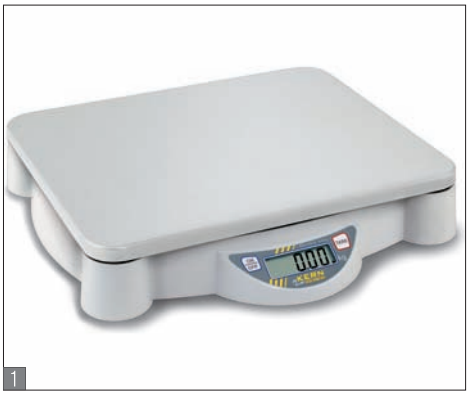
# Bench scales KERN ECE · ECB





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## Easy, mobile and economical

*Features*

- 2 **High mobility:** Battery operation, compact, flat construction and low weight make this balance ideal for use in several locations
- **Particularly large weighing plate**
- **Very fast display:** steady weight values within 2 sec
- **Simple and convenient 2-key operation**
- **Adjusting program CAL**, external test weights at an additional price, see page 133 ff.

*Technical data*

- Overall dimensions WxDxH 320x300x60 mm
- Optional battery operation, 6 x 1.5 V AA not included, operating time approx. 100 h. AUTO-OFF function to preserve the batteries
- Permissible ambient temperature 5 °C / 35 °C

***ECB:***

- Backlit LCDdisplay, digit height 14 mm
- Dimensions of weighing plate (stainless steel) WxD 320x260 mm
- Net weight approx. 1,7 kg

1 ***ECE:***

- Large backlit LCDdisplay, digit height 14 mm
- Dimensions of weighing plate (plastic) WxD 320x260 mm
- Net weight approx. 1,5 kg

*Accessories*

- **Rechargeable battery pack internal**, operating time approx. 30 h, charging time approx. 10 h. AUTO-OFF function to preserve the battery, can be reordered, KERN PCB-A01
- **Rechargeable battery pack external**, operating time up to 270 h, charging time approx. 10 h, can be reordered, KERN KS-A01
- **Tare pan made from stainless steel**, details see page 132, KERN RFS-A02

STANDARD


OPTION


| Model<br><br>KERN | Weighing range [Max]<br>kg | Read-out [d]<br>g | Repro-ducibility<br>g | Linea-rity<br><br>g | | Option DKD Calibr. Certificate<br>DKD<br>KERN | |
|---|---|---|---|---|---|---|---|
| **ECE 10K5** | 10 | 5 | 5 | ± 20 | | 963-128 | |
| **ECE 20K10** | 20 | 10 | 10 | ± 40 | | 963-128 | |
| **ECE 50K20** | 50 | 20 | 20 | ± 80 | | 963-128 | |
| | | | | | | | |
| **ECB 10K5** | 10 | 5 | 5 | ± 20 | | 963-128 | |
| **ECB 20K10** | 20 | 10 | 10 | ± 40 | | 963-128 | |
| **ECB 50K20** | 50 | 20 | 20 | ± 60 | | 963-128 | |

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# KERN Pictograms

**Internal adjusting (CAL):** Quick setting of the balance's accuracy with internal adjusting weight (motordriven).

**Adjusting program (CAL):** For quick setting of the balance's accuracy. External adjusting weight required.

**Memory:** Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU

**Data interface RS-232:** To connect the balance to a printer, PC or network

**Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves, etc.

**Interface for second balance:** for direct connection of a second balance

**Network interface:** For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.

**GLP/ISO record keeping:** of weighing data with date, time and identification-no. Only with printers from KERN.

**Piece counting:** Reference quantities selectable. Display can be switched from piece to weight

**Net-total weighing:** weight of tare cup and weight of components memorized in two separate stores.

**Percentage determination:** Determining the deviation in % from the target value (100%).

**Weighing units:** Can be switched to e. g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.

**Weighing with tolerance range:** Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.

**Vibration-free weighing:** (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.

**Spray and dust protection IPxx:** The type of protection is shown by the pictogram. For details see the glossary.

**Stainless steel:** the balance is protected against corrosion.

**Suspended weighing:** load support with hook on the underside of the balance.

**Battery operation:** Ready for battery operation.The battery type is specified for each device.

**Rechargeable battery pack:** rechargeable set.

**Mains adapter:** 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.

**Power supply:** integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.

**Strain gauges:** Electrical resistor on an elastic deforming body.

**Tuning fork principle:** A resonating body is electromagnetically excited, causing it to oscillate.

**Electromagnetic force compensation:** Coil in a permanent magnet. For the most accurate weighings.

**Single cell technology:** Advanced version of the force compensation principle with the highest level of precision.

**Verification possible:** The time required for verification is specified in the pictogram.

**DKD calibration possible:** The time required for DKD calibration is shown in days in the pictogram.

**Package shipment:** The time required to manufacture the product internally is shown in days in the pictogram.

**Pallet shipment:** The time required to manufacture the product internally is shown in days in the pictogram.

**Warranty:** The warranty period is shown in the pictogram.

# Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.
(DKD = German Calibration Service ~ UKAS)

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

**Range of services:**

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponsing test weight or the calibration service ? Your KERN specialist dealer will be pleased to assist you.

# Your KERN specialist dealer:

**KERN – Professional measuring.** Measuring technology and testing services from a single source

DKD-K-11801

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