HANGING SCALES/CRAKE SCALES
KERN Pictograms

Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motor-driven)

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

Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone

Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223

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

RS-485 data interface: To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

USB data interface: To connect the balance to a printer, PC or other peripherals

Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals

WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals

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

Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements

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

Network interface: For connecting the scale to an Ethernet network

Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module

GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

GLP/ISO log: With weight, date and time. Only with KERN printers, see page 171–173

Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition

Totalising level A: The weights of similar items can be added together and the total can be printed out

Totalising level B: The weights of similar items can be added together and the total can be printed out

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: (Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value

Recipe level: A, B, C

Display can be switched from piece to weight

Suitable for the connection, data transmission and control through PC, tablet or smartphone

Rechargeable battery pack: Rechargeable set

Universal mains adapter: with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, USA
C) EU, CH, GB, USA, AUS

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

Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request

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

Weighing principle: Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings

Weighing principle: 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

DÄkkS calibration possible (DKD):
The time required for DÄkkS calibration is shown in days in the pictogram

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram

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

Protection against dust and water splashes IPx:
The type of protection is shown in the pictogram. For details see page 62

Stainless steel:

Corrosion protection:
The balance is protected against corrosion

GLP/ISO log:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

Weighing principle: Single cell

Coil inside a permanent magnet. For the most accurate weighings

Weighing principle: Electromagnetic force compensation

Coil inside a permanent magnet. For the most accurate weighings

Weighing principle: 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

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DÄkkS calibration possible (DKD):
The time required for DÄkkS calibration is shown in days in the pictogram

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Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram

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KERN – measuring technology and testing services from a single source

Balances & Test service catalogue
Provides a complete overview of the KERN line of balances, test weights, and services such as verification, calibration, etc.

Medical scales catalogue
Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist’s balances and veterinary scales.

Microscopes & refractometers catalogue
Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.

SAUTER measuring equipment catalogue
Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.

DAkkS calibration service brochure
Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.

Your advantages

**fast**
- 24 hours delivery service for products in stock – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

**reliable**
- Up to 3 years warranty
- Precision in weighing technology for more than 175 years

**competent**
- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EWG

**versatile**
- One-stop shopping: from pocket balances through to 15 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at www.kern-sohn.com

Order hotline +49 7433 9933-0
Service hotline +49 7433 9933-199
Calibration hotline +49 7433 9933-196
www.kern-sohn.com
Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

Our team of consultants will assist you from Monday to Friday from 8:00 am to 6:00 pm
Hanging scales/Crane scales

TÜV-tested safety

KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and (Non-fixed load lifting attachments/breakage resistance) and EN 61010-1 (Electrical safety).

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these balances are practical in maintenance and wear free.

Note

DAkkS calibration and conformity evaluation for crane scales up to 12 t

Do you use your crane scales in ISO-certified processes or where verification is mandatory? Then we can produce the right calibration certificate or the relevant Declaration of Conformity for your measuring device. Thanks to a modern crane scale test unit, we can calibrate or verify crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 kN. You can find all the important details on pages 214, 219 or directly from one of our test service specialists, we will be pleased to help you.

Lisa Haiß
Product specialist
Hanging scales/Crane scales
Tel. +49 7433 9933-219
Fax +49 7433 9933-29219
lisa.haiss@kern-sohn.com

▸ Triple-range scale: Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that three balances can be replaced with one – which saves space and money!

▸ Also available with high protection type IP67!

▸ NEW: Also available as version with calibration approval!
<table>
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<tr>
<th>Readability</th>
<th>Weighing capacity</th>
<th>Model</th>
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For an explanation on the pictos, see front flap

News 2020

* Price set of 5 units
** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs
Luggage scale KERN HGA

Ultra compact, digital luggage scale for rapid weighing of items of luggage and other suspended loads

Features

- This ergonomically-optimised luggage scale is perfectly suited for rapid, accurate checking of cases, bags, sports baggage, etc. The high maximum load means that there is sufficient safety reserve and can therefore also be used for weighing other, suspended loads
- Ergonomic design for easy handling
- Robust nylon fabric tape for secure fixing of the item to be weighed
- **Simple and convenient 1-key operation**
- Easy to toggle between units by a keypress
- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Automatic Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” for 12 s. This leaves sufficient time to read the weight in peace

Technical data

- LCD display, digit height 9 mm
- Ready for use: Batteries included, 3V CR2032, operating time up to 20 h, AUTO-OFF function to preserve the battery, Battery level indicator on display
- **Note:** The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

<table>
<thead>
<tr>
<th>Model</th>
<th>Weighing capacity [Max] kg</th>
<th>Readability [d] g</th>
<th>Dimensions housing WxDxH mm</th>
<th>Net weight approx. kg</th>
<th>Quantity delivered (balance)</th>
<th>Price excl. of VAT ex works €</th>
<th>Option</th>
<th>DAkkS Calibr. Certificate</th>
<th>Quantity delivered (DAkkS Calibr. Certificate)</th>
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* Price set of 5 units
Hanging scale KERN CH

The classic among hand-held hanging scales – perfect for fast weighing of increased loads

Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function**: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Hook, steel**
- **Peak load display** (peak hold)

Technical data

- LCD display, digit height 11 mm
- **Tape measure**, extractable, length approx. 100 cm
- Ready for use: Batteries included, 9 V block, operating time up to 20 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Tare pan with pan beam**, details see Accessories, KERN CH-A01N, € 70,-

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<tr>
<th>Model</th>
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<th>Readability</th>
<th>Dimensions housing</th>
<th>Net weight</th>
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www.kern-sohn.com · Order hotline +49 7433 9933-0

Hanging scales/Crane scales
Hanging scales/Crane scales

Hanging scale KERN HDB-N

Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- **Hook, steel,** can be hinged
- **Peak load display** (peak hold)

Technical data

- LCD display, digit height 12 mm
- **Ready for use:** Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Tare pan with pan beam,** details see Accessories, KERN CH-A01N, € 70,-

Practical hand hanging scale for fast and mobile weighing
Hanging scale KERN HDB-XL

Comfortable hand-held suspension scale for fast and mobile weighing

**Features**

- High-capacity XL-version. The larger design creates space for a large handle, which enables even better handling especially with heavier loads.
- With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety).
- Ideal for rapid control in goods-in and goods-out.
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function**: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key.
- **Hook, steel**, can be hinged.
- **Peak load display** (peak hold)

**Technical data**

- LCD display, digit height 12 mm
- **Ready for use**: Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **Tare pan with pan beam**, details see Accessories, KERN CH-A01N, € 70,-

<table>
<thead>
<tr>
<th>Model</th>
<th>Weighing capacity [kg]</th>
<th>Readability [g]</th>
<th>Dimensions housing W×D×H [mm]</th>
<th>Net weight approx. [kg]</th>
<th>Price excl. of VAT ex works [€]</th>
<th>Option</th>
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<td>0,20</td>
<td>78,-</td>
<td>963-128H 88,-</td>
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</table>
Handy suspension scale for increased loads

**Features**

- With the **TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety).
- Ideal for rapid control in goods-in and goods-out.
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function**: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key.
- **Peak load display** (peak hold), Measuring frequency 5 Hz
- **[Max] ≤ 200 kg**: Carabiner (stainless steel) with safety catch as standard
- **[Max] ≤ 200 kg**: Hook (stainless steel) standard
- **[Max] ≥ 0,5 t**: Reinforced version for heavy loads. Snap link and Hook not included

**Technical data**

- **LCD display**, digit height 12 mm
- **Hole diameter of load support**, model with **[Max] ≤ 200 kg**: approx. 14 mm, **[Max] > 200 kg**: approx. 16 mm
- **Ready for use**: Batteries included, 3×1.5 V AA, operating time up to 300 h

**Accessories**

- **Accessories for models with [Max] ≤ 20 kg**
  - **Tare pan with pan beam**, details see **Accessories**, KERN CH-A01N, € 70,-

- **Accessories for models with [Max] ≥ 100 kg**
  - **Hook with safety catch**, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06, € 125,-

- **Accessories for models with [Max] ≤ 200 kg**
  - **Snap link (stainless steel) with safety catch**, opening approx. 15 mm, KERN HCB-A01, € 33,-
  - **Hook (stainless steel)**, opening approx. 25 mm, KERN HCB-A02, € 30,-

- **Accessories for models with [Max] ≥ 0,5 t**
  - **High-strength shackle**, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models KERN HCB with [Max] ≥ 0,5 t, KERN YSC-03, € 50,-

<table>
<thead>
<tr>
<th>Model</th>
<th>Weighing capacity</th>
<th>Readability</th>
<th>Dimensions housing W×D×H</th>
<th>Net weight approx. kg</th>
<th>Price excl. of VAT ex works KERN €</th>
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**Price reduction**
Hanging scale KERN HCN

Robust and compact suspended scale with high degree of protection against dust and splash water

### Features
- **TÜV certification mark**: The scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety).
- Housing stainless steel, IP65-protected against dust and water splashes.
- Ideal for rapid control in goods-in and goods-out.
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- **Hold function**: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key.
- **Peak load display** (peak hold), Measuring frequency 5 Hz.
- **Carabiner (stainless steel)** with safety catch as standard.
- **Hook (stainless steel)** standard.

### Technical data
- LCD display, digit height 12 mm.
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm
- [Max] > 200 kg: approx. 16 mm.
- **Second display** on the rear of the balance.
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 200 h.

### Accessories
- **Accessories for models with [Max] ≥ 100 kg**.
- **Hook with safety catch**, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06, € 125,-
- **Snap link (stainless steel) with safety catch**, standard, opening approx. 15 mm. Can be reordered, KERN HCB-A01, € 33,-.
- **Hook (stainless steel)**, opening approx. 25 mm, KERN HCB-A02, € 30,-.

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**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>Weighing capacity [Max] kg</th>
<th>Readability [d] g</th>
<th>Dimensions housing W×D×H mm</th>
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**Accessories for models with [Max] ≥ 100 kg**

- **Hook with safety catch**, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06, € 125,-
- **Snap link (stainless steel) with safety catch**, standard, opening approx. 15 mm. Can be reordered, KERN HCB-A01, € 33,-.
- **Hook (stainless steel)**, opening approx. 25 mm, KERN HCB-A02, € 30,-.
### Features

- **NEW: Fully-equipped crane scale** for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off.
- **With the TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety).
- **High mobility**: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.).
- **Hold function**: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key.

### Technical data

- Backlit LCD display, digit height 28 mm
- Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0.2 % of [Max]
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **Internal rechargeable battery pack** for load receptor, operating time up to 50 h without backlight, charging time approx. 12 h, KERN HCD-A01, € 50,-

### Model

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<th>Readability (d)</th>
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<th>Dimensions</th>
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</table>

Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]
Hanging scales/Crane scales

**Crane scale KERN HFA**

Compact crane scale with integrated display can also be used for tensile force measurement

### Features

- **TÜV certification mark:** The scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Ideally suited for determining weight quickly while loading and unloading
- **Peak load display** (peak hold)
- **Hold function:** For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

### Technical data

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel
- Rechargeable battery pack internal, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AAA not included in scope of delivery, operating time up to 40 h
- Precision: 0.2 % of [Max]
- Measuring frequency 60 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- **High-strength shackle,** hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, € 100,- [Max] > 5 t: KERN YSC-02, € 210,-

### Specifications

#### Model

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<th>KERN</th>
<th>Weighing capacity [Max]</th>
<th>Readability</th>
<th>Net weight approx.</th>
<th>Dimensions</th>
<th>Price excl. of VAT ex works €</th>
<th>DakkS Calibration Certificate</th>
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<td>HFA 1T-4</td>
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<td>1090,-</td>
<td>963-133H 700,-</td>
</tr>
</tbody>
</table>

**Price reduction**

www.kern-sohn.com · Order hotline +49 7433 9933-0

Dakks Calibr. Certificate
Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

**Features**

- **With the TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- **Peak load display** (peak hold)
- **Hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **Tare**: Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed

- **Display device with integrated radio module**, which the user can carry around with him, thanks to the convenient hand strap, standard. In this way the weighing data can always be read off the display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Range up to 100 m, LCD display, digit height 23 mm, rechargeable battery pack internal, standard. Operating time up to 30 h without backlight, charging time approx. 12 h. Can be reordered, KERN HFC-A01, € 60,-
- **Dimensions (display device) W×D×H 88×64×256 mm**
- **Net weight 0,4 kg**

**Technical data**

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel

**Accessories**

- **Rechargeable battery pack internal** for load support, operating time up to 30 h, without backlight, charging time approx. 12 h, KERN HFA-A01, € 40,-
- **High-strength shackle**, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, € 100,- [Max] > 5 t: KERN YSC-02, € 210,-
The professional alternative up to 600 kg with rear-facing second display

**Features**

- **With the TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **Second display** on the rear of the balance
- **High mobility**: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- **Tare**: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- **Shackle and safety catch made of nickel-plated steel**
- **Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF), W×D×H 48×10×95 mm.
  Batteries included, 1×12 V 23A

**Technical data**

- **Superior display size**: digit height 25 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- **Display device**
- **Dimensions housing W×D×H**
  162×123×390 mm
- **Rechargeable battery pack internal, operating time up to 30 h without backlight, charging time approx. 14 h**
- **Precision**: 0,2 % of [Max]
- **Permissible ambient temperature 0 °C/40 °C**

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www.kern-sohn.com · Order hotline +49 7433 9933-0

Hanging scales/Crane scales 165
Robust, high-resolution crane scale up to 12 t, now also with EC type approval [M] or protection type IP67

**High mobility**
thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)

**Solid shackles, non-revolving**

**Radio remote control standard.** Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 65×24×100 mm. Batteries included, 1× 12 V 23A
Crane scale KERN HFD

Features
- **NEW**: The models with M add-on have EC type approval and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- Supports you in SOLAS-compliant weighing of your cargoes
- **NEW**: The models with IP add-on have special protection against dust and water splashes to IP67 and because of this they are ideal for use in harsh environments
- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/scales meet the requirements of the standard in industrial environment (Electrical safety)
- **Because of its stable construction and robust design**, it is ideal for continuous use in industrial environment
- **Hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the hold key is pressed
- **Tare**: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed

Technical data
- **Superior display size**: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 70 h without backlight, battery pack accessible from the outside, which means it is easy to replace
- Precision: 0.2 % of [Max]
- Permissible ambient temperature -10 °C/40 °C

Accessories
- **Rechargeable battery pack internal** for load support, operating time up to 70 h, without backlight, charging time approx. 12 h, KERN HFD-A04, € 70,-
- **Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving, suitable for models HFD 600, HFD 1T: KERN HFD-A01, € 45,-
  HFD 3T: KERN HFD-A02, € 60,-
  HFD 6T, HFD 10T: KERN HFD-A03, € 95,-
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, HFD-A06, € 210,-

<table>
<thead>
<tr>
<th>Model</th>
<th>Weighing capacity</th>
<th>Readability</th>
<th>Net weight approx.</th>
<th>Dimensions</th>
<th>Price excl. of VAT ex works</th>
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Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

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<th>Readability</th>
<th>Net weight approx.</th>
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<th>Price excl. of VAT ex works</th>
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New model

Price reduction
Robust industrial crane scale with luminous LED display for optimum reading in unfavourable ambient conditions

**Features**

- **With the TÜV certification mark**, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- **High mobility**: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Adaptation to unstable environmental conditions** by changing the readability
- **High resolution readability**: Readability \([d]\) for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- **Hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- **Tare**: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- **Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 1×12 V 23A

**Technical data**

- Superior display size: digit height 30 mm, bright with high contrast for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0.2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

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<tr>
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Robust industrial crane scale with calibration approval [M] – perfect for heavy-duty, custody transfer applications

** Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
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- **Hook with safety catch,** revolving
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<table>
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Verification at the factory, we need to know the full address of the location of use.
KERN & SOHN GmbH
Balances, Test weights, Microscopes,
DAkkS calibration laboratory
Ziegelei 1
72336 Balingen
Germany

Tel. +49 7433 9933-0
Fax +49 7433 9933-149

info@kern-sohn.com
www.kern-sohn.com

Ancestor Johann Jakob Sauter built the Hahn inclination scale out of iron, a foundation stone for weighing for the balance industry in Southern Germany

KERN is founded – precision balances are produced

A proud Gottlieb Kern with his staff

Pharmaceutical balance with Aesculap

Inflation – KERN wages are paid with self printed currency

The electronic balance ousts mechanical devices

Accredited DKD laboratory (ISO 17025)

New premises in Balingen

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)

Authorisation for initial verification by the manufacturer (2009/23/EC)

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)

Verification point for non-automatic balances and test weights. New customer portal www.kern-sohn.com goes live

Expansion of the product range to include optical instruments (microscopes and refractometers)

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse

Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

Significant anniversary year! 25 years of accredited DKD laboratory 175 years of KERN & SOHN 250 years of balance manufacture in the Sauter family-owned company

Construction of Ziegelei 3.0, extension of administration building

1769

1844

1863

1880

1923

1980

1994

2000

2002

2007

2008

2009

2012

2014

2015

2017

2019

2020