









































HANGING SCALES/CRANE SCALES



PROFESSIONAL MEASURING

2016

KERN Pictograms

| | | |
|--|--|--|
|  Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven). |  Piece counting: Reference quantities selectable. Display can be switched from piece to weight. |  Suspended weighing: Load support with hook on the underside of the balance. |
|  Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required. |  Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total). |  Battery operation: Ready for battery operation. The battery type is specified for each device. |
|  Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc. |  Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. |  Rechargeable battery pack: Rechargeable set. |
|  Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 214 |  Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode. |  Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS |
|  Data interface RS-232: To connect the balance to a printer, PC or network. | |  Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available. |
|  RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance. |  Totalising level A: The weights of similar items can be added together and the total can be printed out. |  Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request. |
|  USB data interface: To connect the balance to a printer, PC or other peripherals. |  Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition. |  Weighing principle: Strain gauges Electrical resistor on an elastic deforming body. |
|  Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals. | |  Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate. |
|  WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals. |  Percentage determination: Determining the deviation in % from the target value (100 %). |  Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings. |
|  Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc. |  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 principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision. |
|  Interface for second balance: For direct connection of a second balance. |  Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning |  Verification possible: The time required for verification is specified in the pictogram. |
|  Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 180 |  Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value. |  DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram. |
|  Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module. |  Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary. See page 72. |  Package shipment: The time required for internal shipping preparations is shown in days in the pictogram. |
|  GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection. |  ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device. |  Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram. |
|  GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories", see page 177. |  Stainless steel: The balance is protected against corrosion. |  Warranty: The warranty period is shown 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, 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.



KERN DAkKS calibration service brochure

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



KERN flyer Special offers

Compact overview of our bestselling products – just the balances/measuring instruments/microscopes your customers need! Can be customised to suit your requirements.



The gnome guide

Travel report from KERN, the famous scientific gnome, who travelled all over the world, in order to illustrate the physical law of gravitational force. Ideal for use in school education – please request, it's free of charge.



170 years of KERN

Interesting and readable overview of the history of the origins of Southern German balance manufacturing, as well as the company history, which stretches right back to 1770 – please request, it's free of charge.

Your advantages

1

Quick Delivery

Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).

2

Price performance ratio

KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

3

Direct dispatch

of ordered goods to your customer is available, with personalised delivery note if desired (please ask), invoice will be issued to you (third party business).

4

3 years warranty

Items under € 400,- : 2 years

5

No stock-keeping necessary.

KERN does the warehousing for you.

6

Sale or return

within 14 days of purchase.

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 EN 61010-1 industry standards.

New in the KERN crane scale range: Compact crane scales/load receptors/tensile dynamometers – KERN HFA and HFC.

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 practically maintenance and wear free.

Tip

DAkkS calibration certificates (DKD) for crane scales up to 12 t

Do you use crane scales in ISO-certified processes? Then we can produce the right calibration certificate for your measuring device. Thanks to a modern crane scale test unit, we can calibrate 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 209, 213 or directly from one of our calibration specialists, we will be pleased to help you.



Your product specialist's recommendation:



For loads up to 10 tonnes



High-contrast display for optimum readability from a distance



TÜV-tested safety



Lisa Mayer
Product specialist
Hanging scales/Crane scales

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lisa.mayer@kern-sohn.com












from €
1020,-

► page 166



KERN HFO

Quick-Finder Hanging scales/Crane scales

| Read-out | Weighing range | Model | Price excl. of VAT ex works € | Page |  DAYS ready for shipping |  |  |  |  |  |  |  |  |
|----------|----------------|---------------|-------------------------------|------|---|---|---|---|---|---|---|---|---|
| [d] | [Max] | KERN | | | | For an explanation on the pictos, see the front flap | | | | | | | |
| 5 g | 5 kg | HDB 5K5N | 60,- | 161 | 1 | | ● | | ● | | | ● | |
| 10 g | 10 kg | HDB 10K10N | 60,- | 161 | 1 | | ● | | ● | | | ● | |
| 10 g | 20 kg | HCB 20K10 | 105,- | 162 | 1 | | ● | | ● | | | ● | |
| 20 g | 15 kg | CH 15K20 | 71,- | 161 | 1 | | ● | | ● | | | ● | |
| 20 g | 50 kg | HCB 50K20 | 115,- | 162 | 1 | | ● | | ● | | | ● | |
| 50 g | 50 kg | CH 50K50 | 76,- | 161 | 1 | | ● | | ● | | | ● | |
| 50 g | 99 kg | HCB 99K50 | 100,- | 162 | 1 | | ● | | ● | | | ● | |
| 50 g | 150 kg | HFB 150K50 | 355,- | 165 | 1 | | ● | | | | | | ● |
| 100 g | 50 kg | CH 50K100 | 66,- | 161 | 1 | | ● | | ● | | | ● | |
| 100 g | 50 kg | HCB 50K100 | 90,- | 162 | 1 | | ● | | ● | | | ● | |
| 100 g | 50 kg | HCN 50K100IP | 130,- | 162 | 1 | | ● | | ● | ● | ● | ● | |
| 100 g | 200 kg | HCB 200K100 | 110,- | 162 | 1 | | ● | | ● | | | ● | |
| 100 g | 300 kg | HFB 300K100 | 385,- | 165 | 1 | | ● | | | | | | ● |
| 100 g | 1 t | HFM 1T0.1 | 710,- | 166 | 1 | | ● | | | | | | ● |
| 200 g | 100 kg | HCB 100K200 | 110,- | 162 | 1 | | ● | | ● | | | ● | |
| 200 g | 100 kg | HCN 100K200IP | 130,- | 162 | 1 | | ● | | ● | ● | ● | ● | |
| 200 g | 600 kg | HFB 600K200 | 385,- | 165 | 1 | | ● | | | | | | ● |
| 200 g | 600 kg | HFA 600K-1 | 590,- | 163 | 1 | | ● | | | | | ○ | ● |
| 500 g | 200 kg | HCB 200K500 | 99,- | 162 | 1 | | ● | | ● | | | ● | |
| 500 g | 200 kg | HCN 200K500IP | 130,- | 162 | 1 | | ● | | ● | ● | ● | ● | |
| 500 g | 1 t | HFA 1T-4 | 690,- | 163 | 1 | | ● | | | | | ○ | ● |
| 500 g | 1 t | HFC 1T-4 | 990,- | 164 | 1 | | ● | | | | | ○ | ● |
| 500 g | 1 t | HFO 1.5T0.5M | 1020,- | 166 | 1 | ○ | ● | | | | | | ● |
| 500 g | 1,5 t | HTS 1T-4AM | 1140,- | 167 | 1 | ○ | ● | | | | | | ● |
| 500 g | 3 t | HFM 3T0.5 | 740,- | 166 | 1 | | ● | | | | | | ● |
| 500 g | 3 t | HFT 3T0.5 | 1200,- | 168 | 2* | | ● | ● | ● | | | | ● |
| 500 g | 5 t | HFM 5T0.5 | 960,- | 166 | 1 | | ● | | | | | | ● |
| 1000 g | 0,5 t | HCB 0.5T-3 | 215,- | 162 | 1 | | ● | | ● | | | ● | |
| 1000 g | 3 t | HFA 3T-3 | 750,- | 163 | 1 | | ● | | | | | ○ | ● |
| 1000 g | 3 t | HFC 3T-3 | 1050,- | 164 | 1 | | ● | | | | | ○ | ● |
| 1000 g | 3 t | HFO 3T1M | 1150,- | 166 | 1 | ○ | ● | | | | | | ● |
| 1000 g | 3 t | HTS 3T-3AM | 1200,- | 167 | 1 | ○ | ● | | | | | | ● |
| 1000 g | 5 t | HFT 5T1 | 1440,- | 168 | 2* | | ● | ● | ● | | | | ● |
| 1000 g | 10 t | HFM 10T1 | 1250,- | 166 | 1 | | ● | | | | | | ● |
| 2000 g | 1 t | HCB 1T-3 | 275,- | 162 | 1 | | ● | | ● | | | ● | |
| 2000 g | 5 t | HFA 5T-3 | 790,- | 163 | 1 | | ● | | | | | ○ | ● |
| 2000 g | 5 t | HFC 5T-3 | 1090,- | 164 | 1 | | ● | | | | | ○ | ● |
| 2000 g | 6 t | HTS 6T-3AM | 1270,- | 167 | 1 | ○ | ● | | | | | | ● |
| 2000 g | 6 t | HFO 6T2M | 1450,- | 166 | 1 | ○ | ● | | | | | | ● |
| 2000 g | 10 t | HFT 10T2 | 1790,- | 168 | 2* | | ● | ● | ● | | | | ● |
| 5000 g | 10 t | HFA 10T-3 | 1040,- | 163 | 1 | | ● | | | | | ○ | ● |
| 5000 g | 10 t | HFC 10T-3 | 1350,- | 164 | 1 | | ● | | | | | ○ | ● |
| 5000 g | 10 t | HTS 10T-3AM | 1410,- | 167 | 1 | ○ | ● | | | | | | ● |
| 5000 g | 15 t | HFT 15T5 | 2650,- | 168 | 2* | | ● | ● | ● | | | | ● |

■ = News 2016

2* = Delivery by truck, please ask for prices

● = Standard

○ = Option

Hanging scales KERN HDB-N · CH



KERN HDB-N



KERN CH



Convenient, economical and always handy

Features

- **1** 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)
- 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

Technical data

- HDB-N:**
- **Hook (stainless steel)**, can be hinged
 - **Ready for use:** Batteries included 2 x 1.5 V AAA, operating time up to 180 h, AUTO-OFF function to preserve the battery, can be switched off
 - Further weighing units: kg, lb, N
 - Permissible ambient temperature 5 °C / 35 °C
- CH:**
- **Hook (stainless steel)**
 - **2 Tape measure**, extractable, length approx. 100 cm
 - **Peak load display** (peak hold), measuring frequency 5 Hz

- **Ready for use:** 9 V block included, operating time up to 20 h. AUTO-OFF function to preserve the batteries, can be switched off
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **3 Tare pan with retaining bracket** suitable for KERN HDB-N and KERN CH 15K20, for details see page 182, KERN CH-A01N, € 67,-

STANDARD

CAL EXT

UNIT

MOVE

BATT

DMS

1 DAY

2 YEARS WARRANTY

OPTION

DAKKS +3 DAYS

| Model | Weighing range | Readout | LCD display, digit height | Dimensions housing WxDxH mm | Height with hook mm | Net weight approx. kg | Price excl. of VAT ex works € | Option | |
|------------|----------------|---------|---------------------------|-----------------------------|---------------------|-----------------------|-------------------------------|---------------------------|------|
| | | | | | | | | DAkKS Calibr. Certificate | |
| KERN | [Max] kg | [d] g | mm | | | | | DKD KERN | € |
| HDB 5K5N | 5 | 5 | 12 | 70x25x105 | 195 | 0,15 | 60,- | 963-127H | 72,- |
| HDB 10K10N | 10 | 10 | 12 | 70x25x105 | 195 | 0,15 | 60,- | 963-128H | 88,- |
| CH 15K20 | 15 | 20 | 11 | 90x30x176,5 | 270 | 0,25 | 71,- | 963-128H | 88,- |
| CH 50K50 | 50 | 50 | 11 | 90x30x176,5 | 270 | 0,25 | 76,- | 963-128H | 88,- |
| CH 50K100 | 50 | 100 | 11 | 90x30x176,5 | 270 | 0,25 | 66,- | 963-128H | 88,- |

Hanging scales KERN HCB · HCN



KERN HCB



KERN HCN

The handy scales for higher loads up to 1 t

Features

- **1** 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)
- Ideal for rapid control in goods-in and goods-out
- Essential too 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

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



HCB:

- **Ready for use:** Batteries included
3 x 1.5 V AA, operating time up to 300 h
- **2** HCB with [Max] ≥ 0,5 t: Reinforced version for heavy loads. Snap link and Hook not included

HCN:

- Housing stainless steel, IP65 protection
- **3** **Second display** on the rear of the balance
- **Ready for use:** 2 x 1.5 V AA, operating time up to 200 h

Accessories for models with [Max] ≤ 200 kg

- **Hook (stainless steel)** standard, opening approx. 25 mm, can be retrofitted, KERN HCB-A02, € 30,-
- **Snap link (stainless steel) with safety catch** standard, opening approx. 15 mm, can be retrofitted, KERN HCB-A01, € 33,-
Batteries included

Accessories for models with [Max] ≤ 20 kg

- **Tare pan with retaining bracket**, for details see page 182, KERN CH-A01N, € 67,-

STANDARD



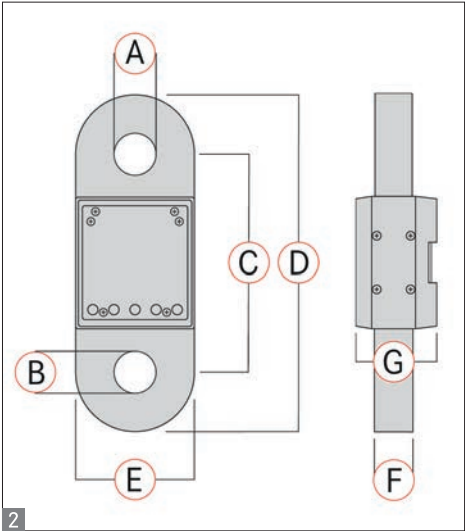
OPTION



| Model | Weighing range [Max] kg | Readout [d] g | Dimensions housing WxDxH mm | Height with snap link and hook mm | Net weight approx. kg | Price excl. of VAT ex works € | Option DAKKS Calibr. Certificate | |
|-----------------|-------------------------------|---------------------|--------------------------------------|--|-----------------------------|--|-------------------------------------|-------|
| | | | | | | | DKD KERN | € |
| KERN | | | | | | | | |
| HCB 20K10 | 20 | 10 | 80x45x150 | 290 | 0,4 | 105,- | 963-128H | 88,- |
| HCB 50K20 | 50 | 20 | 80x45x150 | 290 | 0,4 | 115,- | 963-128H | 88,- |
| HCB 50K100 | 50 | 100 | 80x45x150 | 290 | 0,4 | 90,- | 963-128H | 88,- |
| HCB 99K50 | 99 | 50 | 80x45x150 | 290 | 0,4 | 100,- | 963-129H | 105,- |
| HCB 100K200 | 100 | 200 | 80x45x150 | 290 | 0,4 | 110,- | 963-129H | 105,- |
| HCB 200K100 | 200 | 100 | 80x45x150 | 290 | 0,4 | 110,- | 963-129H | 105,- |
| HCB 200K500 | 200 | 500 | 80x45x150 | 290 | 0,4 | 99,- | 963-129H | 105,- |
| HCB 0.5T-3 | 500 | 1000 | 82x42,5x152 | - | 0,35 | 215,- | 963-130H | 165,- |
| HCB 1T-3 | 1000 | 2000 | 80x48x150 | - | 0,52 | 275,- | 963-130H | 165,- |
| stainless steel | | | | | | | | |
| HCN 50K100IP | 50 | 100 | 95x55x175 | 315 | 0,8 | 130,- | 963-128H | 88,- |
| HCN 100K200IP | 100 | 200 | 95x55x175 | 315 | 0,8 | 130,- | 963-129H | 105,- |
| HCN 200K500IP | 200 | 500 | 95x55x175 | 315 | 0,8 | 130,- | 963-129H | 105,- |

Price reduction

Crane scale KERN HFA



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

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.
- Ideally suited for determining weight quickly while loading and unloading

- 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

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, standard. Can be re-ordered, KERN HFA-A01, € 40,- operating time up to 30 h, charging time approx. 12 h, internal charging via mains adapter, charge status indicator on display
- Optional battery operation, 3 x 1.5 V AA not included, 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

STANDARD

CAL EXT

UNIT

BATT

ACCU

MULTI

DMS

1 DAY

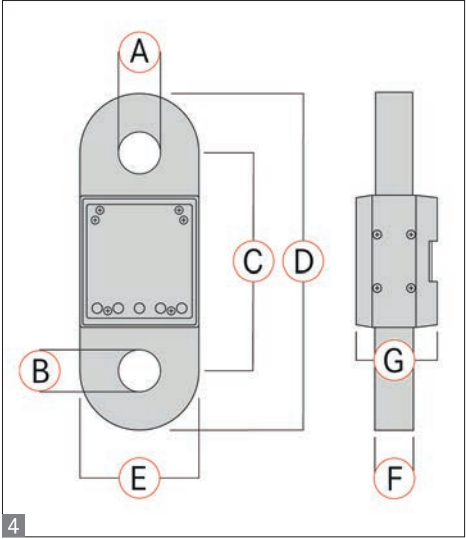
3 YEARS WARRANTY

OPTION

DAKKS

+3 DAYS

| Model | Weighing range [Max] kg | Readout [d] g | 2 Dimensions | | | | | | Net weight approx. kg | Price excl. of VAT ex works € | Option DAKKS Calibr. Certificate | |
|-----------------|----------------------------|------------------|--------------|-----|-----|----|----|----|--------------------------|----------------------------------|-------------------------------------|-------|
| | | | A = B | C | D | E | F | G | | | DKD KERN | € |
| | | | mm | mm | mm | mm | mm | mm | | | | |
| KERN HFA 600K-1 | 600 | 200 | 27 | 165 | 255 | 90 | 30 | 55 | 1,8 | 590,- | 963-130H | 165,- |
| HFA 1T-4 | 1000 | 500 | 27 | 165 | 255 | 90 | 30 | 55 | 1,8 | 690,- | 963-130H | 165,- |
| HFA 3T-3 | 3000 | 1000 | 27 | 165 | 255 | 90 | 30 | 61 | 1,8 | 750,- | 963-132H | 500,- |
| HFA 5T-3 | 5000 | 2000 | 30 | 165 | 255 | 90 | 30 | 61 | 3,9 | 790,- | 963-132H | 500,- |
| HFA 10T-3 | 10000 | 5000 | 40 | 185 | 275 | 90 | 40 | 71 | 5,5 | 1040,- | 963-133H | 700,- |



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. 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. Standard. Range up to 100 m. All functions can be selected. 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 re-ordered, KERN HFC-A01, **€ 60,-**
- Dimensions Housing (display device) WxDxH 88x64x256 mm
- Net weight approx. 0,5 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
- Load lifting attachments: Optional battery operation, 3 x 1.5 V AA not included, 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

- Rechargeable battery pack internal** for load lifting attachments, operating time up to 15 h, charging time approx. 12 h, KERN HFA-A01, **€ 40,-**

STANDARD

CAL EXT

UNIT

BATT

ACCU

MULTI

DMS

1 DAY

3 YEARS WARRANTY

only load support

2

OPTION

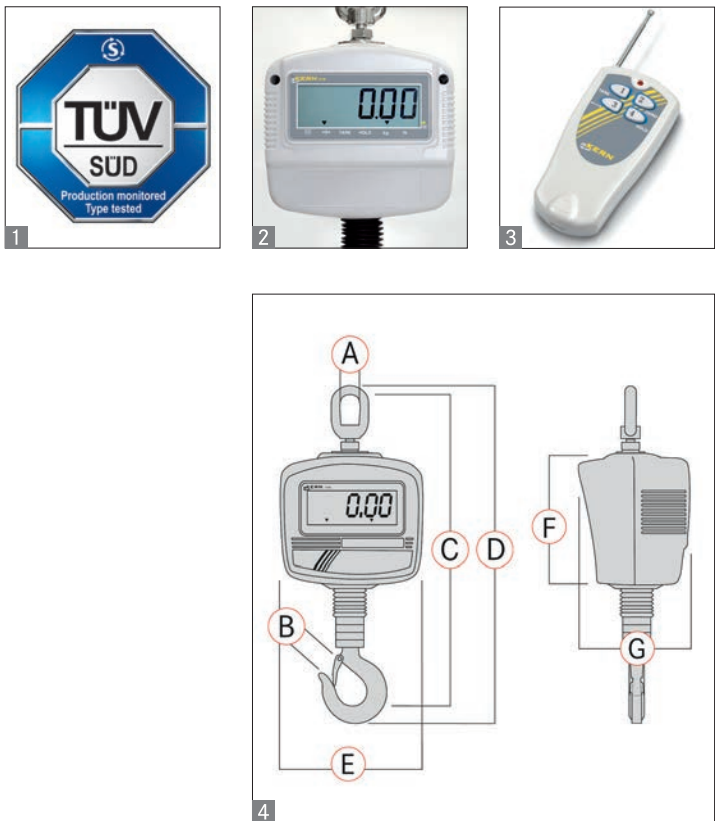
ACCU

DAkkS +3 DAYS

5

| Model | Weighing range [Max] kg | Readout [d] g | Net weight approx. kg | 4 Dimensions | | | | | | Price excl. of VAT ex works € | Option | |
|---------------|-------------------------|---------------|-----------------------|--------------|-----|-----|----|----|----|-------------------------------|---------------------------|-------|
| | | | | A = B | C | D | E | F | G | | DAkkS Calibr. Certificate | € |
| | | | | mm | mm | mm | mm | mm | mm | | | |
| KERN HFC 1T-4 | 1000 | 500 | 1,7 | 27 | 165 | 255 | 90 | 30 | 55 | 990,- | 963-130H | 165,- |
| HFC 3T-3 | 3000 | 1000 | 2,2 | 27 | 165 | 255 | 90 | 30 | 61 | 1050,- | 963-132H | 500,- |
| HFC 5T-3 | 5000 | 2000 | 3,9 | 30 | 165 | 255 | 90 | 30 | 61 | 1090,- | 963-132H | 500,- |
| HFC 10T-3 | 10000 | 5000 | 6,0 | 40 | 185 | 275 | 90 | 40 | 71 | 1350,- | 963-133H | 700,- |

Crane scale KERN HFB



The professional alternative up to 600 kg with rear-facing second display

Features

- 1 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)
- 2 Second display on the rear of the scale
- High mobility: thanks to battery operation, compact construction and low weight, it is suitable for 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 hook connection made of nickel-plated steel
- 3 Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 25 mm. Bright backlight for easy reading of weight, even from a distance
- Dimensions housing WxDxH 162x123x158.5 mm
- Rechargeable battery pack internal, standard, operating time approx. 40 h, charging time approx. 14 h with mains adapter, charge status indication visualised through LED
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0 °C / 40 °C

STANDARD



OPTION



| Model | Weighing range [Max] kg | Readout [d] g | Net weight approx. kg | 4 Dimensions | | | | | | | Price excl. of VAT ex works € | Option DAkKS Calibr. Certificate | |
|-------------|----------------------------|---------------------|--------------------------|--------------|----|-----|-----|-----|-------|-----|--|-------------------------------------|-------|
| | | | | A | B | C | D | E | F | G | | DKD KERN | € |
| KERN | | | | mm | mm | mm | mm | mm | mm | mm | | | |
| HFB 150K50 | 150 | 50 | 3,2 | 26 | 25 | 358 | 390 | 163 | 158,5 | 126 | 355,- | 963-129H | 105,- |
| HFB 300K100 | 300 | 100 | 3,2 | 26 | 25 | 358 | 390 | 163 | 158,5 | 126 | 385,- | 963-129H | 105,- |
| HFB 600K200 | 600 | 200 | 3,2 | 26 | 25 | 358 | 390 | 163 | 158,5 | 126 | 385,- | 963-130H | 165,- |

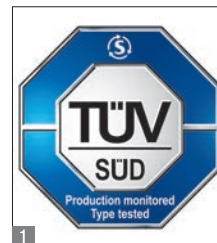
Crane scales KERN HFM · HFO



KERN HFM



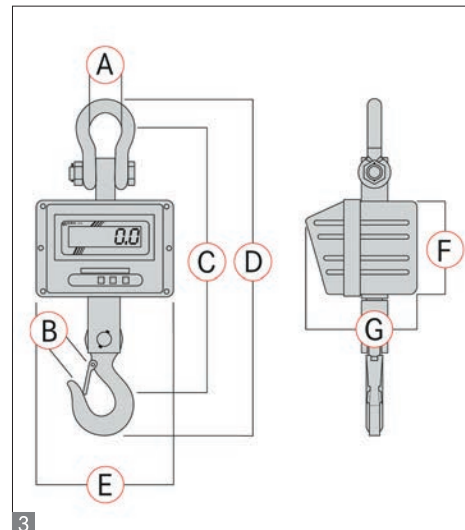
KERN HFO



1



2



3

Industrial crane scale up to 10 t – now also with EC type approval [M]

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)
- **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 battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)

- Adaptation to unstable environmental conditions by changing the readability
- High resolution readout: Readout [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). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 30 mm. Luminescent LED display of weight values, even from a distance or under poor lighting conditions
- Rechargeable battery pack internal, standard, operating time up to 50 h, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature -10 °C / 40 °C

14

STANDARD



OPTION



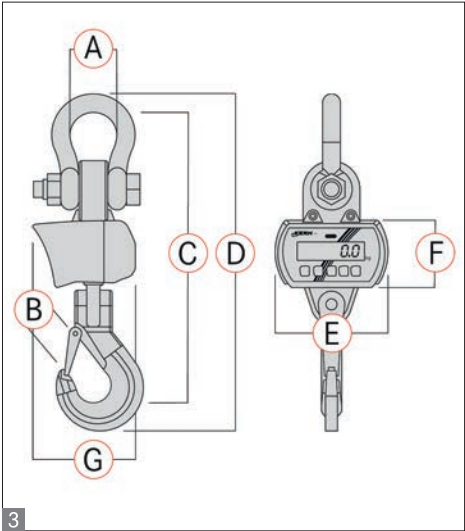
FACTORY



only HFO

| Model | Weighing range [Max] kg | Readout [d] g | Net weight approx. kg | 3 Dimensions | | | | | | | Price excl. of VAT ex works € | Options | | | |
|--|----------------------------|------------------|--------------------------|--------------|----|-----|-----|-----|-----|-----|----------------------------------|--------------|------------|---------------------|-------|
| | | | | A | B | C | D | E | F | G | | Verification | | Calibr. Certificate | |
| | | | | mm | mm | mm | mm | mm | mm | mm | | M KERN | € | DKD KERN | € |
| KERN | | | | | | | | | | | | | | | |
| HFM 1T0.1 | 1000 | 100 | 13,2 | 80 | 40 | 540 | 610 | 270 | 200 | 175 | 710,- | - | - | 963-130H | 165,- |
| HFM 3T0.5 | 3000 | 500 | 15,7 | 75 | 50 | 540 | 610 | 270 | 200 | 175 | 740,- | - | - | 963-132H | 500,- |
| HFM 5T0.5 | 5000 | 500 | 22,3 | 75 | 50 | 650 | 730 | 300 | 230 | 190 | 960,- | - | - | 963-132H | 500,- |
| HFM 10T1 | 10000 | 1000 | 34 | 100 | 60 | 750 | 840 | 300 | 230 | 190 | 1250,- | - | - | 963-133H | 700,- |
| 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. | | | | | | | | | | | | | | | |
| HFO 1.5T0.5M | 1500 | 500 | 15 | 80 | 40 | 540 | 610 | 270 | 200 | 175 | 1020,- | 950-130H | 200,- | 963-130H | 165,- |
| HFO 3T1M | 3000 | 1000 | 16,5 | 75 | 50 | 540 | 610 | 270 | 200 | 175 | 1150,- | 950-132H | 300,- | 963-132H | 500,- |
| HFO 6T2M | 6000 | 2000 | 25 | 75 | 50 | 650 | 730 | 300 | 230 | 190 | 1450,- | on request | on request | 963-132H | 500,- |

Crane scale KERN HTS



Robust industrial crane scale up to 10 t, with EC type approval [M]

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)
- 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 battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department etc.)
- Range of tare: 100 % of [Max]

- LED display with Gross/Tare/Net
- Chargestatus indicator visualised through LED, visual using LED
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- 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**, non-revolving
- Infrared remote control** standard. Range up to 8 m. All functions can be selected. WxDxH 65x24x100 mm. Batteries included, 9 V

Technical data

- Superior display size: digit height 25 mm. Large backlit LCD display for easy reading of the weight, even from a distance or under poor lighting conditions
- Rechargeable battery pack internal, standard, operating time up to 100 hours with backlight, charging time approx. 12 h. Can be re-ordered, KERN WTB-A01N, € 35,-
- Precision: 0,1 % of [Max]
- Net weight
HTS 1T-4AM approx 6,2 kg
HTS 3T-3AM approx 8,5 kg
HTS 6T-3AM approx 11,5 kg
HTS 10T-3AM approx 19,9 kg
- Permissible ambient temperature -20 °C / 40 °C

STANDARD



OPTION

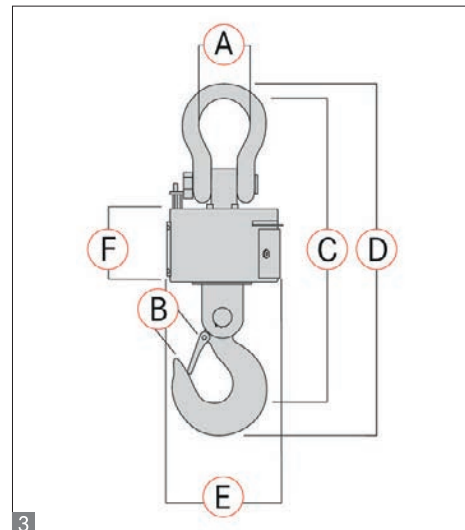


FACTORY



| Model | Weighing range [Max] kg | Readout [d] = [e] g | Minimum load [Min] kg | 3 Dimensions | | | | | | | Price excl. of VAT ex works € | Options | | | |
|-------------|-------------------------|---------------------|-----------------------|--------------|----|-----|-----|-----|-----|-----|-------------------------------|--------------|-------|---------------------|-------|
| | | | | A | B | C | D | E | F | G | | Verification | | Calibr. Certificate | |
| | | | | mm | mm | mm | mm | mm | mm | mm | | MID KERN | € | DKD KERN | € |
| HTS 1T-4AM | 1500 | 500 | 10 | 33 | 29 | 315 | 359 | 200 | 121 | 181 | 1140,- | 950-130H | 200,- | 963-130H | 165,- |
| HTS 3T-3AM | 3000 | 1000 | 20 | 43 | 47 | 347 | 369 | 200 | 121 | 181 | 1200,- | 950-132H | 500,- | 963-132H | 500,- |
| HTS 6T-3AM | 6000 | 2000 | 40 | 58 | 55 | 440 | 519 | 200 | 121 | 181 | 1270,- | 950-132H | 500,- | 963-132H | 500,- |
| HTS 10T-3AM | 10000 | 5000 | 100 | 83 | 61 | 335 | 628 | 200 | 121 | 181 | 1410,- | 950-133H | 700,- | 963-133H | 700,- |

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.



Robust industrial crane scale up to 15 t with radio display and RS-232 data interface for transferring weighing results

Features

- **1** 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)
- **Professional device for robust applications** in production, quality control, logistics etc. Because of its stable steel construction and robust design, it is ideal for continuous use in industrial applications
- **Weighing unit without display**, therefore very robust
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Hook with safety catch**, revolving

- **2** Display with integrated radio module, in this way the weighing data can easily be read off the display by the user, even if the user might find himself in a remote distance from the crane scale. Range up to 100 m. The integrated RS-232 data interface allows from connection to a printer, PC or network

Technical data

- Separate display with large, backlit LCD display, digit height 22 mm. Dimensions WxDxH 175x135x39 mm, incl. antenna WxDxH 240x135x55 mm
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Rechargeable battery pack internal**, standard. Can be re-ordered, scale: operating time up to 80 h, charging time approx. 8 h. Can be re-ordered, KERN VFB-A02, **€ 40,-**
- display device: operating time up to 40 h, charging time 4 h. Can be re-ordered, KERN GAB-A04, **€ 40,-**
- **Interface cable RS-232**, to connect the display device to a printer, PC, etc., cable length approx. 1,5 m, KERN KFF-A01, **€ 46,-**
- **Suitable printers** see page 177

STANDARD



OPTION

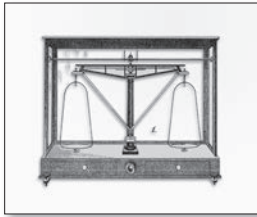


| Model | Weighing range [Max] kg | Readout [d] g | Net weight approx. kg | 3 Dimensions | | | | | | Price excl. of VAT ex works € | Option DAkkS Calibr. Certificate | |
|------------------|-------------------------------|---------------------|--------------------------|--------------|----|-----|-----|-----|-----|--|-------------------------------------|-------|
| | | | | A | B | C | D | E | F | | DKD KERN | € |
| | | | | mm | mm | mm | mm | mm | mm | | | |
| KERN | | | | | | | | | | | | |
| HFT 3T0.5 | 3000 | 500 | 28 | 73 | 39 | 545 | 650 | 270 | 145 | 1200,- | 963-132H | 500,- |
| HFT 5T1 | 5000 | 1000 | 45 | 76 | 51 | 635 | 760 | 270 | 147 | 1440,- | 963-132H | 500,- |
| HFT 10T2 | 10000 | 2000 | 53 | 92 | 61 | 735 | 840 | 270 | 167 | 1790,- | 963-133H | 700,- |
| HFT 15T5 | 15000 | 5000 | 73 | 99 | 61 | 842 | 950 | 320 | 160 | 2650,- | 963-133H* | 700,- |

* Calibration up to [Max] = 12 t

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KERN is founded – precision balances are produced



► 1863

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► 1880

Pharmaceutical balance with Aesculap



► 1923

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► 1980

The electronic balance ousts mechanical devices



► 1994

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► 2000

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► 2002

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► 2007

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



► 2008

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



► 2009

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



► 2012

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New customer portal www.kern-sohn.com goes live



► 2014

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



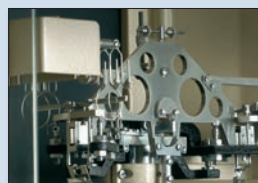
► 2015

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



Our Tip

Come to see the Museum of scale and weight ...



How a scale learned to weigh! Come and experience KERN history in the Zollernschloss at Balingen ...

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