












## HANGING SCALES/CRANE SCALES



PROFESSIONAL  
MEASURING

# 2020

# KERN Pictograms

 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 <b>KERN Communication Protocol (KCP):</b> It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram. For details see page 62
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	 <b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 <b>Stainless steel:</b> The balance is protected against corrosion
 <b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC, tablet or smartphone	 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see page 171-173	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see page 171-173	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Rechargeable battery pack:</b> Rechargeable set
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 <b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, USA C) EU, CH, GB, USA, AUS
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	 <b>Recipe level C:</b> 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	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	 <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
 <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)	 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Weighing units:</b> 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	 <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
 <b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	 <b>Weighing with tolerance range:</b> (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	 <b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
 <b>Interface for second balance:</b> For direct connection of a second balance	 <b>Network interface:</b> For connecting the scale to an Ethernet network	 <b>Verification possible:</b> The time required for verification is specified in the pictogram
 <b>Network interface:</b> For connecting the scale to an Ethernet network	 <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 <b>DAkkS calibration possible (DKD):</b> The time required for DAkkS calibration is shown in days in the pictogram
 <b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

# KERN – measuring technology and testing services from a single source



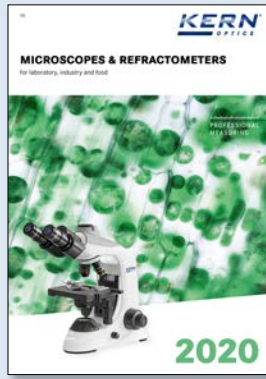
## Balances & Test service catalogue

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

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- 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](http://www.kern-sohn.com)



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### [www.kern-sohn.com](http://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.

## 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.



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from €  
**370,-**

- ▷ 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 !

# HIGHLIGHT







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

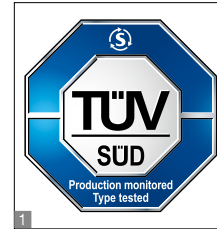
**Technical data**

- 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

STANDARD				OPTION
UNIT	BATT	DMS	1 DAY	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Quantity delivered (balance)	Price excl. of VAT ex works €	Option		Quantity delivered (DAkKS Calibr. Certificate)
							DAkKS Calibr. Certificate	€	
KERN HGA 50K-2S05	50	10	150×31×35	1,6	5	80,-*	963-128	88,-	1

\* Price set of 5 units



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

**Features**

- **1** 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
- **2 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**

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

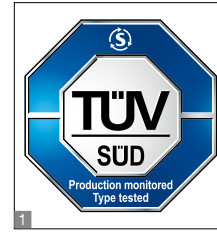
STANDARD

CAL EXT UNIT MOVE BATT DMS 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkkS KERN	DAkkS Calibr. Certificate €
CH 15K20	15	20	90×30×176,5	0,35	69,-	963-128H	88,-
CH 50K50	50	50	90×30×176,5	0,35	75,-	963-128H	88,-
CH 50K100	50	100	90×30×176,5	0,35	65,-	963-128H	88,-



## Practical hand hanging scale for fast and mobile weighing

### Features

- **1** 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

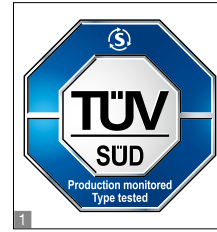
### Accessories

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



Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
						DAkkS KERN	€
<b>HDB 5K5N</b>	5	5	72×25×105	0,20	<b>60,-</b>	963-127H	72,-
<b>HDB 10K10N</b>	10	10	72×25×105	0,45	<b>60,-</b>	963-128H	88,-





## 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
- **1** 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

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

#### STANDARD



#### OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAKkS KERN	DAKkS Calibr. Certificate €
<b>HDB 6K-3XL</b>	6	5	107×25×101	0,20	<b>78,-</b>	963-128H	88,-
<b>HDB 10K-2XL</b>	15	10	107×25×101	0,20	<b>78,-</b>	963-128H	88,-
<b>HDB 30K-2XL</b>	30	20	107×25×101	0,20	<b>78,-</b>	963-128H	88,-



## Handy suspension scale for increased loads

### Features

- **1** 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

- **2** [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

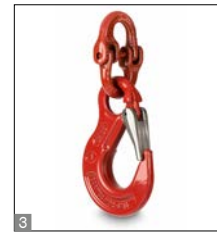
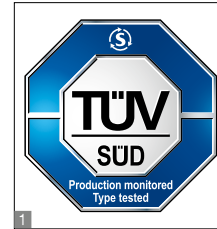
### Accessories

- 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**
- **3 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**
- **4 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,-

STANDARD					OPTION	
CAL EXT	UNIT	MOVE	BATT	1 DAY	DAkKS	+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkKS KERN	Calibr. Certificate €
<b>KERN</b>							
<b>HCB 20K10</b>	20	10	82×43×153	0,60	<b>105,-</b>	963-128H	88,-
<b>HCB 50K20</b>	50	20	82×43×153	0,60	<b>115,-</b>	963-128H	88,-
<b>HCB 50K100</b>	50	100	82×43×153	0,60	<b>90,-</b>	963-128H	88,-
<b>HCB 99K50</b>	99	50	82×43×153	0,60	<b>100,-</b>	963-129H	105,-
<b>HCB 100K200</b>	100	200	82×43×153	0,60	<b>99,-</b>	963-129H	105,-
<b>HCB 200K100</b>	200	100	82×43×153	0,60	<b>115,-</b>	963-129H	105,-
<b>HCB 200K500</b>	200	500	82×43×153	0,60	<b>95,-</b>	963-129H	105,-
<b>HCB 0.5T-3</b>	500	1000	82×43×153	0,30	<b>190,-</b> ↓	963-130H	165,-
<b>HCB 1T-3</b>	1000	2000	82×43×153	0,30	<b>250,-</b> ↓	963-130H	165,-

↓ Price reduction



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

**Features**

- **1** 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)
- 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
- **2 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**

- **3 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,-**

STANDARD

CAL EXT UNIT MOVE IP 65 INOX BATT 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
						DAkkS KERN	DAkkS Calibr. Certificate €
KERN HCN 50K100IP	50	100	96×48×179	0,80	<b>130,-</b>	963-128H	88,-
KERN HCN 100K200IP	100	200	96×48×179	0,80	<b>130,-</b>	963-129H	105,-
KERN HCN 200K500IP	200	500	96×48×179	0,80	<b>130,-</b>	963-129H	105,-



## High-resolution hanging scale for loads up to 300 kg

### 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
- **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

- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- Batterie charge status indication visualised through LED
- Large high-contrast display that is easy to read
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- **Hook with safety catch**, revolving
- Shackle and safety catch made of nickel-plated steel
- **Infrared remote control** standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included

### Technical data

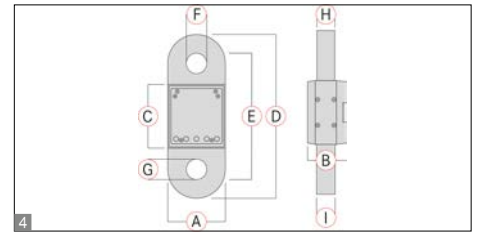
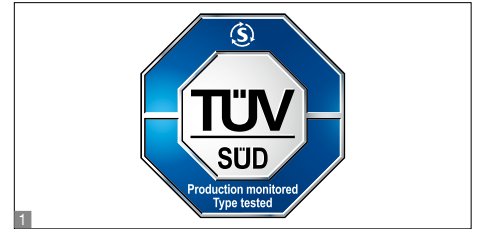
- Backlit LCD display, digit height 28 mm
- Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 5 °C/35 °C

### 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,-

STANDARD					OPTION	
CAL EXT	UNIT	BATT	DMS	1 DAY	ACCU	DAkKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	③ Dimensions							Price excl. of VAT ex works €	Option	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkKS KERN	Certificate €
KERN HCD 60K-2	60	20	0,85	150	79	97	276	250	26	18	195,-	963-129H	105,-
KERN HCD 100K-2	150	50	0,85	150	79	97	276	250	26	18	195,-	963-129H	105,-
KERN HCD 300K-1	300	100	0,85	150	79	97	276	250	26	18	195,-	963-129H	105,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]													
KERN HCD 100K-2D	60   150	20   50	0,85	150	79	97	276	250	26	18	205,-	963-129H	105,-
KERN HCD 300K-2D	150   300	50   100	0,85	150	79	97	276	250	26	18	205,-	963-129H	105,-



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

**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)
- 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

- **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, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AA 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**

- **2 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,-**
- **3 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with [Max] ≤ 1 t: KERN YHA-01, **€ 170,-** [Max] = 3 t: KERN YHA-02, **€ 190,-** [Max] = 5 t: KERN YHA-03, **€ 230,-** [Max] > 5 t: KERN YHA-04, **€ 410,-**

STANDARD

CAL EXT UNIT BATT ACCU MULTI DMS 1 DAY

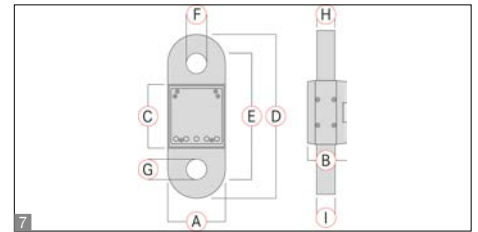
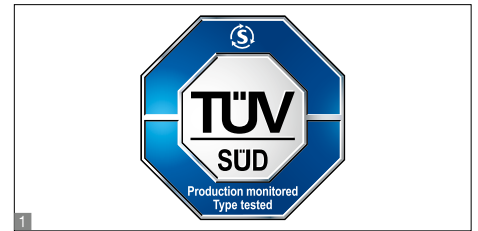
OPTION

DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	4 Dimensions					Price excl. of VAT ex works €	Option	
				A	B	C	D	F		DAkKS KERN	Calibr. Certificate €
				mm	mm	mm	mm	mm			
KERN HFA 600K-1	600	200	1,8	90	30	55	255	27	<b>560,-</b> ↓	963-130H	165,-
KERN HFA 1T-4	1000	500	1,8	90	30	55	255	27	<b>580,-</b> ↓	963-130H	165,-
KERN HFA 3T-3	3000	1000	2,0	90	30	61	255	27	<b>630,-</b> ↓	963-132H	500,-
KERN HFA 5T-3	5000	2000	4,0	90	30	61	255	30	<b>690,-</b> ↓	963-132H	500,-
KERN HFA 10T-3	10000	5000	6	90	40	71	275	40	<b>1090,-</b>	963-133H	700,-

↓ Price reduction





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

**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)
- 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

- **2 Display device with integrated radio module**, which the user can carry around with him, thanks to the convenient hand strap **3**, 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 housing (display device) WxDxH 88x64x256 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

- Optional battery operation, 3x1.5 V AA not included in scope of delivery, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency 10 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

**Accessories**

- **4 Rechargeable battery pack internal** for load support, operating time up to 30 h, without backlight, charging time approx. 12 h, KERN HFA-A01, **€ 40,-**
- **5 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] ≤ 5t: KERN YSC-01, **€ 100,-** [Max] > 5t: KERN YSC-02, **€ 210,-**
- **6 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with [Max] ≤ 1t: KERN YHA-01, **€ 170,-** [Max] = 3t: KERN YHA-02, **€ 190,-** [Max] = 5t: KERN YHA-03, **€ 230,-** [Max] > 5t: KERN YHA-04, **€ 410,-**

14

STANDARD

CAL EXT UNIT BATT ACCU MULTI DMS 1 DAY

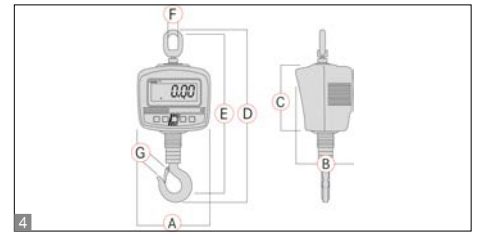
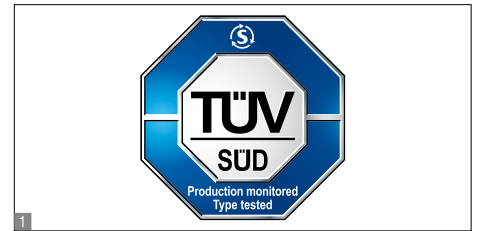
load receptors only

OPTION

ACCU DAKKS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	7 Dimensions					Price excl. of VAT ex works €	Option	
				A mm	B mm	C mm	D mm	F mm		DAKKS KERN	Calibr. Certificate
KERN HFC 600K-1	600	200	1,8	90	30	55	255	27	890,-	963-130H	165,-
HFC 1T-4	1000	500	1,8	90	30	55	255	27	890,-	963-130H	165,-
HFC 3T-3	3000	1000	2,2	90	30	61	255	27	950,-	963-132H	500,-
HFC 5T-3	5000	2000	4,0	90	30	61	255	30	1020,-	963-132H	500,-
HFC 10T-3	10000	5000	6	90	40	71	275	40	1410,-	963-133H	700,-

Price reduction



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 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
- **3** **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

STANDARD

CAL EXT UNIT ACCU MULTI DMS 1 DAY

OPTION

DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	4 Dimensions							Price excl. of VAT ex works €	Option	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkkS KERN	DAkkS Calibr. Certificate €
KERN HFB 150K50	150	50	2,2	163	126	158,5	390	358	26	25	345,-	963-129H	105,-
KERN HFB 300K100	300	100	2,2	163	126	158,5	390	358	26	25	375,-	963-129H	105,-
KERN HFB 600K200	600	200	2,4	163	126	158,5	390	358	26	25	375,-	963-130H	165,-



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

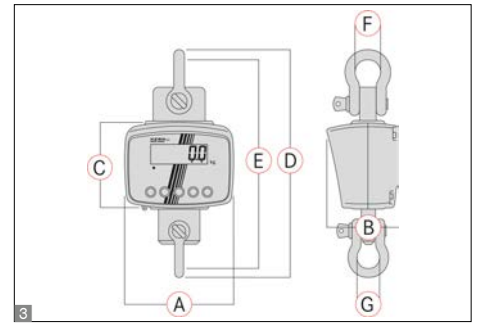
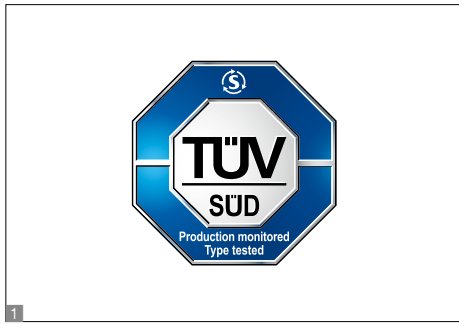


**High mobility**

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



**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
- **1** 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)
- **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,-**
- **2 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,-**

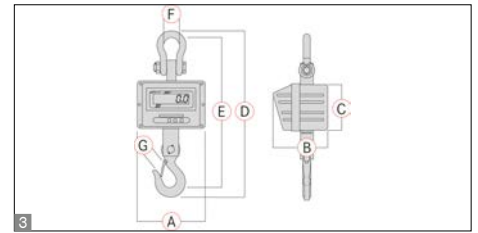
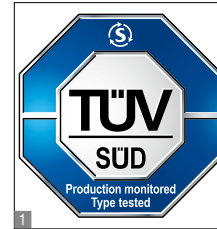
STANDARD      OPTION      FACTORY

CAL EXT   
 IP 67   
 ACCU   
 MULTI   
 DMS   
 1 DAY   
 DAkkS +3 DAYS   
 BT 4.0   
 M HFD-M

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions						Price excl. of VAT ex works €	Option				
				A	B	C	D	E	F = G		Verification	DAkkS Calibr.	Certificate		
KERN				mm	mm	mm	mm	mm	mm	€	KERN	€	DAkkS KERN	€	
Triple range balance switches automatically to the next largest weighing capacity [Max] and readability [d]															
HFD 600K-1	150   300   600	50   100   200	9	194	129	145	421	383	50,8	<b>370,-</b>	-	-	963-130H	165,-	
HFD 1T-4	300   600   1500	100   200   500	9	194	129	145	421	383	50,8	<b>380,-</b> ↓	-	-	963-130H	165,-	
HFD 3T-3	600   1500   3000	200   500   1000	10	194	129	145	421	383	50,8	<b>590,-</b> ↓	-	-	963-132H	500,-	
HFD 6T-3	1500   3000   6000	500   1000   2000	15	194	129	145	477	426	68,3	<b>640,-</b> ↓	-	-	963-132H	500,-	
HFD 10T-3	3000   6000   12000	1000   2000   5000	20	194	129	145	573	510	82,5	<b>760,-</b> ↓	-	-	963-133H	700,-	
Protection against dust and water splashes IP67															
HFD 600K-1IP	150   300   600	50   100   200	9	194	129	145	421	383	50,8	<b>570,-</b>	-	-	963-130H	165,-	
HFD 1T-4IP	300   600   1500	100   200   500	9	194	129	145	421	383	50,8	<b>580,-</b>	-	-	963-130H	165,-	
HFD 3T-3IP	600   1500   3000	200   500   1000	10	194	129	145	421	383	50,8	<b>790,-</b>	-	-	963-132H	500,-	
HFD 6T-3IP	1500   3000   6000	500   1000   2000	15	194	129	145	477	426	68,3	<b>840,-</b>	-	-	963-132H	500,-	
HFD 10T-3IP	3000   6000   12000	1000   2000   5000	20	194	129	145	573	510	82,5	<b>960,-</b>	-	-	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.															
HFD 600K-1M	600	200	9	194	129	145	421	383	50,8	<b>465,-</b>	On request		963-130H	165,-	
HFD 1T-4M	1500	500	9	194	129	145	421	383	50,8	<b>470,-</b>	On request		963-130H	165,-	
HFD 3T-3M	3000	1000	10	194	129	145	421	383	50,8	<b>620,-</b>	On request		963-132H	500,-	
HFD 6T-3M	6000	2000	15	194	129	145	477	426	68,3	<b>770,-</b>	On request		963-132H	500,-	
HFD 10T-3M	12000	5000	20	194	129	145	573	510	82,5	<b>890,-</b>	On request		963-133H	700,-	

New model

Price reduction



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

**Features**

- **1** 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
- **2 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**

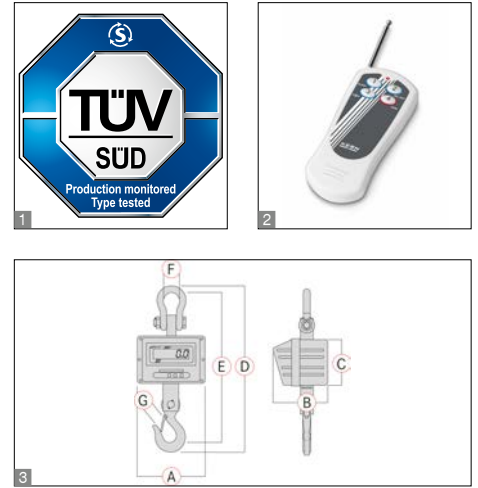
- Superior display size: digit height 30 mm, bright with high contrast for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

STANDARD      OPTION

CAL EXT   
 ACCU   
 MULTI   
 DMS   
 1 DAY   
 2 DAYS   
 DAKKS   
 +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	DAKKS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAKKS KERN	€
<b>HFM 1T0.1</b>	1000	100	14	270	175	200	610	540	68	40	<b>690,-</b>	963-130H	165,-
<b>HFM 3T0.5</b>	3000	500	16	270	175	200	610	540	74	40	<b>710,-</b>	963-132H	500,-
<b>HFM 5T0.5</b>	5000	500	24	300	190	230	730	650	74	55	<b>930,-</b>	963-132H	500,-
<b>HFM 10T1</b> <sup>4</sup>	10000	1000	34	300	190	230	840	750	92	60	<b>1260,-</b>	963-133H	700,-





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

**Features**

- **1** 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
- **2 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

STANDARD      OPTION      FACTORY

CAL EXT   
 ACCU   
 MULTI   
 DMS   
 1 DAY   
 2 DAYS   
 DAkkS +3 DAYS   
 M +3 DAYS

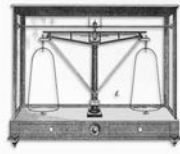
Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Option			
				Verification		DAkkS Calibr. Certificate									
				KERN	€	DAkkS KERN	€								
HFO 1.5T0.5M	1500	500	16	270	175	200	610	540	60	35	1030,-	965-130H	132,-	963-130H	165,-
HFO 3T1M	3000	1000	17	270	175	200	610	540	80	47	1130,-	965-132H	200,-	963-132H	500,-
HFO 6T2M <sup>4</sup>	6000	2000	30	300	190	230	730	650	80	54,4	1400,-	965-132H	200,-	963-132H	500,-

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.



**1769**

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



**1844**

KERN is founded – precision balances are produced



**1863**

A proud Gottlieb Kern with his staff



**1880**

Pharmaceutical balance with Aesculap



**1923**

Inflation – KERN wages are paid with self printed currency



**1980**

The electronic balance ousts mechanical devices



**1994**

Accredited DKD laboratory (ISO 17025)



**2000**

New premises in Balingen



**2002**

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



**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**

Verification point for non-automatic balances and test weights.

New customer portal [www.kern-sohn.com](http://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



**2017**

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



**2019**

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



**2020**

Construction of Ziegelei 3.0, extension of administration building