










































HANGING SCALES/CRANE SCALES

PROFESSIONAL MEASURING

2021



KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 KERN Communication Protocol (KCP): 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	 Battery operation: Ready for battery operation. The battery type is specified for each device
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required		 Rechargeable battery pack: Rechargeable set
 Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone. For details see page 131	 GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 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
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 GLP/ISO log: With weight, date and time. Only with KERN printers, see page 170–172	 Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 Data interface RS-232: To connect the balance to a printer, PC or network	 Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
 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	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate
 USB data interface: To connect the balance to a printer, PC or other peripherals	 Totalising level A: The weights of similar items can be added together and the total can be printed out	 Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
 Bluetooth* 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: Single cell technology: Advanced version of the force compensation principle with the highest level of precision
 WiFi data interface: To transfer data from the balance to a printer, PC or other peripherals	 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	 Verification possible: The time required for verification is specified in the pictogram
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 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	 DAkKS calibration possible (DKD): The time required for DAkKS calibration is shown in days in the pictogram
 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram
 Interface for second balance: For direct connection of a second balance	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 58	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram
 Network interface: For connecting the scale to an Ethernet network	 Suspended weighing: Load support with hook on the underside of the balance	 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, 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 12 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



Online Shop
www.kern-sohn.com



Service hotline
+49 7433 9933-199



E-mail order
info@kern-sohn.com



Calibration hotline
+49 7433 9933-196



Fax order
+49 7433 9933-146



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



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 scales 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.

KERN HFD









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- o **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!
- o Also available with high protection type IP67!
- o Also EC type approval as version with calibration approval !



from €
370,-

Quick-Finder Hanging scales/Crane scales

Readability	Weighing capacity	Model	Price excl. of VAT ex works €	Page								
[d] kg	[Max] kg	KERN			For an explanation on the pictos, see front flap							
0,005	5	HDB 5K5N	60,-	157	1		●		●		●	
0,005	6	HDB 6K-3XL	85,-	158	1		●		●		●	
0,01	10	HDB 10K10N	60,-	157	1		●		●		●	
0,01	15	HDB 10K-2XL	85,-	158	1		●		●		●	
0,01	20	HCB 20K10	105,-	159	1		●		●		●	
0,01	50	HGA 50K-2S05	80,-*	155	1		●				●	
0,02	15	CH 15K20	69,-	156	1		●		●		●	
0,02	30	HDB 30K-2XL	85,-	158	1		●		●		●	
0,02	50	HCB 50K20	115,-	159	1		●		●		●	
0,02	60	HCD 60K-2	195,-	161	1		●				●	●
0,02 0,05	60 150	HCD 100K-2D	205,-	161	1		●				●	●
0,05	50	CH 50K50	75,-	156	1		●		●		●	
0,05	99	HCB 99K50	100,-	159	1		●		●		●	
0,05	150	HCD 100K-2	195,-	161	1		●				●	●
0,05	150	HFB 150K50	345,-	164	1		●					●
0,05 0,1	150 300	HCD 300K-2D	205,-	161	1		●				●	●
0,05 0,1 0,2	150 300 600	HFD 600K-1	370,-	165	1		●			●		●
0,05 0,1 0,2	150 300 600	HFD 600K-1IP	570,-	165	1		●			●		●
0,1	50	CH 50K100	65,-	156	1		●		●		●	
0,1	50	HCB 50K100	90,-	159	1		●				●	
0,1	50	HCN 50K100IP	130,-	160	1		●		●		●	
0,1	200	HCB 200K100	115,-	159	1		●		●		●	
0,1	300	HCD 300K-1	195,-	161	1		●				●	●
0,1	300	HFB 300K100	375,-	164	1		●					●
0,1	1000	HFM 1T0.1	690,-	167	1		●					●
0,1 0,2 0,5	300 600 1500	HFD 1T-4	380,-	165	1		●			●		●
0,1 0,2 0,5	300 600 1500	HFD 1T-4IP	580,-	165	1		●			●		●
0,2	100	HCB 100K200	99,-	159	1		●		●		●	
0,2	100	HCN 100K200IP	130,-	160	1		●		●		●	
0,2	600	HFA 600K-1	560,-	163	1		●				●	●
0,2	600	HFC 600K-1	890,-	163	1		●				●	●
0,2	600	HFB 600K200	375,-	164	1		●				●	●
0,2	600	HFD 600K-1M	480,-	165	1	○	●			●		●
0,2 0,5 1	600 1500 3000	HFD 3T-3	590,-	165	1		●			●		●
0,2 0,5 1	600 1500 3000	HFD 3T-3IP	790,-	165	1		●			●		●
0,5	200	HCB 200K500	95,-	159	1		●		●		●	
0,5	200	HCN 200K500IP	130,-	160	1		●		●		●	
0,5	1000	HFA 1T-4	580,-	163	1		●				●	●
0,5	1000	HFC 1T-4	890,-	163	1		●				●	●
0,5	1500	HFD 1T-4M	480,-	165	1	○	●			●		●
0,5	1500	HFO 1.5T0.5M	1030,-	168	1	○	●					●
0,5	3000	HFM 3T0.5	710,-	167	1		●					●
0,5	5000	HFM 5T0.5	930,-	167	1		●					●
0,5 1 2	1500 3000 6000	HFD 6T-3	640,-	165	1		●			●		●
0,5 1 2	1500 3000 6000	HFD 6T-3IP	840,-	165	1		●			●		●
1	500	HCB 0.5T-3	190,-	159	1		●		●		●	
1	3000	HFA 3T-3	630,-	163	1		●				●	●
1	3000	HFC 3T-3	950,-	163	1		●				●	●
1	3000	HFD 3T-3M	640,-	165	1	○	●			●		●
1	3000	HFO 3T1M	1130,-	168	1	○	●					●
1	10000	HFM 10T1	1260,-	167	2**		●					●
1 2 5	3000 6000 12000	HFD 10T-3	760,-	165	1		●			●		●
1 2 5	3000 6000 12000	HFD 10T-3IP	960,-	165	1		●			●		●
2	1000	HCB 1T-3	250,-	159	1		●		●		●	
2	5000	HFA 5T-3	690,-	163	1		●				●	●
2	5000	HFC 5T-3	1020,-	163	1		●				●	●
2	6000	HFD 6T-3M	790,-	165	1	○	●			●		●
2	6000	HFO 6T2M	1400,-	168	2**	○	●					●
5	10000	HFA 10T-3	1090,-	163	1		●				●	●
5	10000	HFC 10T-3	1410,-	163	1		●				●	●
5	12000	HFD 10T-3M	900,-	165	1	○	●			●		●

* Price set of 5 units


** Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● = standard ○ = option









Ultra compact, digital luggage scale for fast weighing 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 at the press of a button
- 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 10 sec. This leaves sufficient time to read the weight in peace

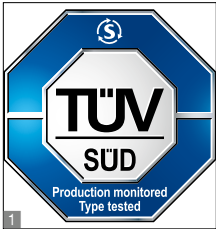
Technical data

- 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	
					

Model	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight/ balance approx. kg	Quantity delivered (balances)	Price excl. of VAT ex works €	Option		Quantity delivered (DAkKS Calibr. Certificate)
							DAkKS Calibr. Certificate		
KERN							DAkKS KERN	€	
HGA 50K-2S05	50	10	150×31×35	0,4	5	80,-*	963-128H	94,-	1

* Price set of 5 units



The classic among manual hanging scales – perfect for rapid weighing of higher 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)
- Hook, steel

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

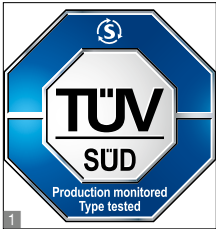
1 DAY

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 €
KERN							
CH 15K20	15	20	90×30×176,5	0,35	69,-	963-128H	94,-
CH 50K50	50	50	90×30×176,5	0,35	75,-	963-128H	94,-
CH 50K100	50	100	90×30×176,5	0,35	65,-	963-128H	94,-



Practical hanging scale for rapid, 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,-**

STANDARD

CAL EXT

UNIT

MOVE

BATT

DMS

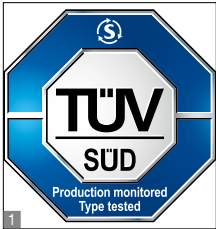
1 DAY

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 Calibr. Certificate	
KERN						DAkkS KERN	€
HDB 5K5N	5	5	72×25×105	0,20	60,-	963-127H	78,-
HDB 10K10N	10	10	72×25×105	0,20	60,-	963-128H	94,-



User-friendly hanging scale for rapid, mobile weighing

Features

- 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
- Peak load display (peak hold)
- Hook, steel, can be hinged

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,-**

15

STANDARD

CAL EXT

UNIT

MOVE

BATT

DMS

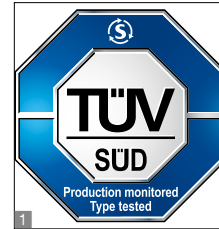
1 DAY

OPTION

DAkkS

+3 DAYS

Model	Weighing capacity	Readability	Dimensions housing W×D×H	Net weight	Price excl. of VAT ex works €	Option	
	[Max] kg	[d] g	mm	approx. kg		DAkkS Calibr. Certificate	
						DAkkS KERN	€
KERN							
HDB 6K-3XL	6	5	107×25×101	0,20	85,-	963-128H	94,-
HDB 10K-2XL	15	10	107×25×101	0,20	85,-	963-128H	94,-
HDB 30K-2XL	30	20	107×25×101	0,20	85,-	963-128H	94,-



Handy hanging scale for higher 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: Snap link (stainless steel) with safety catch, as standard [Max] ≤ 200 kg: Hook (stainless steel) with safety catch
- **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

for models with [Max] ≤ 20 kg

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

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,-

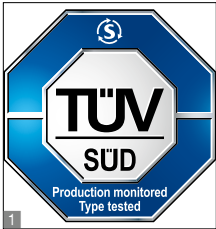
for models with [Max] ≤ 200 kg

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

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,-

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	
KERN						DAkkS KERN	€
HCB 20K10	20	10	82×43×153	0,30	105,-	963-128H	94,-
HCB 50K20	50	20	82×43×153	0,30	115,-	963-128H	94,-
HCB 50K100	50	100	82×43×153	0,30	90,-	963-128H	94,-
HCB 99K50	99	50	82×43×153	0,30	100,-	963-129H	110,-
HCB 100K200	100	200	82×43×153	0,30	99,-	963-129H	110,-
HCB 200K100	200	100	82×43×153	0,30	115,-	963-129H	110,-
HCB 200K500	200	500	82×43×153	0,30	95,-	963-129H	110,-
HCB 0.5T-3	500	1000	82×43×153	0,40	190,-	963-130H	200,-
HCB 1T-3	1000	2000	82×43×153	0,40	250,-	963-130H	200,-



Robust, compact hanging scale with high level of protection against dust and water spray

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
- Snap link (stainless steel) with safety catch, as standard
- Hook (stainless steel) as 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

- 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, KERN HCB-A01, **€ 33,-**
 - Hook (stainless steel), opening approx. 25 mm, KERN HCB-A02, **€ 30,-**

STANDARD

CAL EXT

UNIT

MOVE

IP 65

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 €
KERN							
HCN 50K100IP	50	100	96×48×179	0,50	130,-	963-128H	94,-
HCN 100K200IP	100	200	96×48×179	0,50	130,-	963-129H	110,-
HCN 200K500IP	200	500	96×48×179	0,50	130,-	963-129H	110,-



High-resolution crane scale for loads up to 300 kg

Features

- 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 level of mobility: thanks to battery pack operation, compact construction and low weight, it is suitable for 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
- Battery level indicator, LED visual display
- 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
- Ready for use: Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 5 °C/40 °C

Accessories

- Internal rechargeable battery pack for Load lifting attachments, operating time up to 50 h without backlight, charging time approx. 12 h, KERN HCD-A01, € 50,-

STANDARD

CAL EXT

UNIT

BATT

DMS

1 DAY

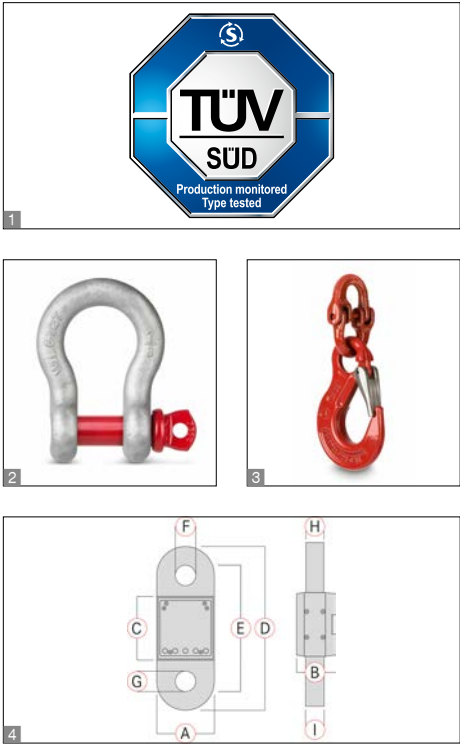
OPTION

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 DAKKS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAKKS KERN	€
KERN HCD 60K-2	60	20	1,10	150	79	97	276	250	26	18	195,-	963-129H	110,-
HCD 100K-2	150	50	1,10	150	79	97	276	250	26	18	195,-	963-129H	110,-
HCD 300K-1	300	100	1,10	150	79	97	276	250	26	18	195,-	963-129H	110,-
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readability [d]													
HCD 100K-2D	60 150	20 50	1,10	150	79	97	276	250	26	18	205,-	963-129H	110,-
HCD 300K-2D	150 300	50 100	1,10	150	79	97	276	250	26	18	205,-	963-129H	110,-



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
- Internal rechargeable battery pack, 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

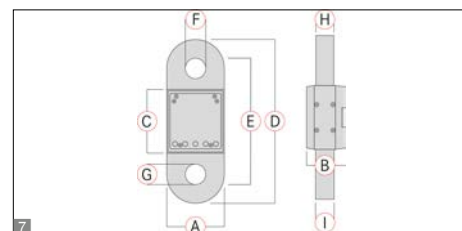
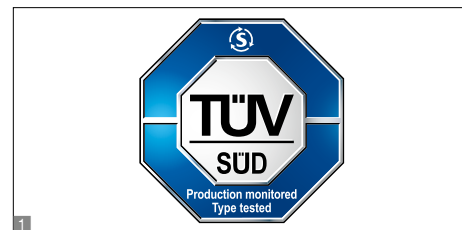
- **2** High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, **€ 100,-** [Max] > 5 t: KERN YSC-02, **€ 210,-**
- **3** Hook with safety catch, cast steel, galvanised and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

15

STANDARD

OPTION

Model	Weighing capacity	Readability	Net weight	4 Dimensions					Price excl. of VAT ex works €	Option	
										DAKkS Calibr. Certificate	
				A	B	C	D	F		DAKkS KERN	€
KERN	[Max] kg	[d] g	approx. kg	mm	mm	mm	mm	mm			
HFA 600K-1	600	200	1,8	90	55	100	255	27	560,-	963-130H	200,-
HFA 1T-4	1000	500	1,8	90	55	100	255	27	580,-	963-130H	200,-
HFA 3T-3	3000	1000	2,0	90	61	100	255	27	630,-	963-132H	500,-
HFA 5T-3	5000	2000	4,0	90	61	100	255	30	690,-	963-132H	500,-
HFA 10T-3	10000	5000	6	90	71	100	275	40	1090,-	963-133H	700,-



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 20 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 of display device W×D×H 85×64×256 mm
- Net weight 0,5 kg

Technical data

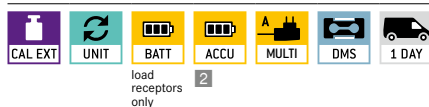
- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with
[Max] ≤ 3 t: aluminium/stainless steel bearing
[Max] > 3 t: steel/steel

- 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 10 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **4** Internal rechargeable battery pack for load support, operating time up to 30 h, without backlight, charging time approx. 12 h
- **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,-**

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	7 Dimensions					Price excl. of VAT ex works €	Option	
										DAkkS Calibr. Certificate	
				A	B	C	D	F		DAkkS KERN	€
KERN				mm	mm	mm	mm	mm			
HFC 600K-1	600	200	1,8	90	55	100	255	27	890,-	963-130H	200,-
HFC 1T-4	1000	500	1,8	90	55	100	255	27	890,-	963-130H	200,-
HFC 3T-3	3000	1000	2,2	90	61	100	255	27	950,-	963-132H	500,-
HFC 5T-3	5000	2000	4,0	90	61	100	255	30	1020,-	963-132H	500,-
HFC 10T-3	10000	5000	6	90	71	100	275	40	1410,-	963-133H	700,-



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, 2×1.5 V AAA

Technical data

- Superior display size: digit height 25 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Internal rechargeable battery pack, 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	
												DAKkS Calibr. Certificate	
				A	B	C	D	E	F	G		DAKkS KERN	€
KERN				mm	mm	mm	mm	mm	mm	mm			
HFB 150K50	150	50	2,2	163	126	158,5	415	385	26	25	345,-	963-129H	110,-
HFB 300K100	300	100	2,2	163	126	158,5	415	385	26	25	375,-	963-129H	110,-
HFB 600K200	600	200	2,4	163	126	158,5	415	385	26	25	375,-	963-130H	200,-



KERN HFD-M

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



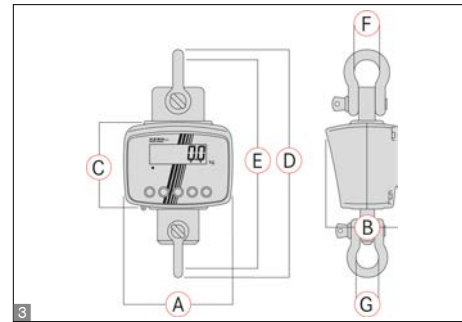
High mobility thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)



Solid shackles, non-revolving



Radio remote control standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included, 1× 12 V 23A



Features

- 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
- The models with IP add-on have special spray and dust protection 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/ 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
- 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

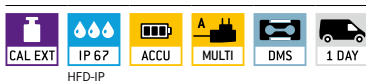
Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Internal rechargeable battery pack, as standard, operating time up to 70 h without back light, charging time approx. 12 h. 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

- Internal rechargeable battery pack for load support, operating time up to 70 h without backlight, charging time approx. 12 h, KERN HFD-A04, **€ 110,-**
- Charging station for external battery charging, scope of delivery: charging station, exchangeable battery, mains adapter, KERN HFD-A07, **€ 110,-**
- 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, **€ 100,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN HFD-A06, **€ 210,-**

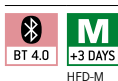
STANDARD




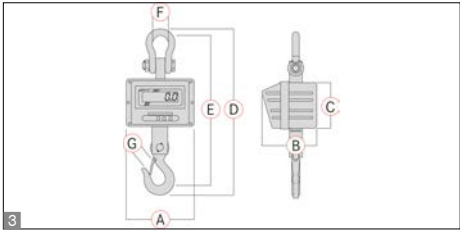
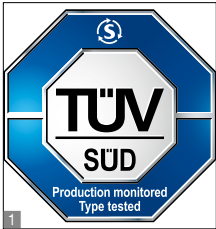
OPTION



FACTORY



Model	Weighing capacity			Readability			Net weight approx. kg	③ Dimensions						Price excl. of VAT ex works €	Option			
	[Max] kg			[d] g				A	B	C	D	E	F = G		Verification		DAkkS Calibr. Certificate	
								mm	mm	mm	mm	mm	mm		 KERN	€	DAkkS KERN	€
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	370,-	-	-	963-130H	200,-
HFD 1T-4	300	600	1500	100	200	500	9	194	129	145	421	383	50,8	380,-	-	-	963-130H	200,-
HFD 3T-3	600	1500	3000	200	500	1000	10	194	129	145	421	383	50,8	590,-	-	-	963-132H	500,-
HFD 6T-3	1500	3000	6000	500	1000	2000	15	194	129	145	477	426	68,3	640,-	-	-	963-132H	500,-
HFD 10T-3	3000	6000	12000	1000	2000	5000	20	194	129	145	573	510	82,5	760,-	-	-	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	570,-	-	-	963-130H	200,-
HFD 1T-4IP	300	600	1500	100	200	500	9	194	129	145	421	383	50,8	580,-	-	-	963-130H	200,-
HFD 3T-3IP	600	1500	3000	200	500	1000	10	194	129	145	421	383	50,8	790,-	-	-	963-132H	500,-
HFD 6T-3IP	1500	3000	6000	500	1000	2000	15	194	129	145	477	426	68,3	840,-	-	-	963-132H	500,-
HFD 10T-3IP	3000	6000	12000	1000	2000	5000	20	194	129	145	573	510	82,5	960,-	-	-	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	480,-	965-130H	132,-	963-130H	200,-
HFD 1T-4M	1500			500			9	194	129	145	421	383	50,8	480,-	965-130H	132,-	963-130H	200,-
HFD 3T-3M	3000			1000			10	194	129	145	421	383	50,8	640,-	965-132H	200,-	963-132H	500,-
HFD 6T-3M	6000			2000			15	194	129	145	477	426	68,3	790,-	965-132H	200,-	963-132H	500,-
HFD 10T-3M	12000			5000			20	194	129	145	573	510	82,5	900,-	965-133H	300,-	963-133H	700,-



Robust industrial crane scale with bright 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
- 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, 2×1.5 V AAA

Technical data

- Superior display size: digit height 30 mm, bright with high contrast for easy reading of weighing results, even in poor lighting conditions
- Internal rechargeable battery pack, 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

CAL EXT

ACCU

MULTI

DMS

1 DAY

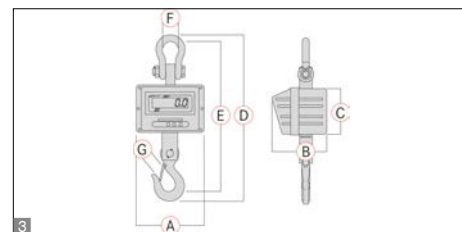
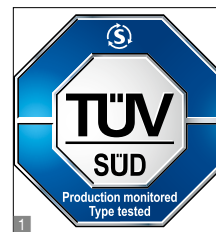
2 DAYS

OPTION

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	B	C	D	E	F	G		DAkkS KERN	€
				mm	mm	mm	mm	mm	mm	mm			
HFM 1T0.1	1000	100	14	270	200	175	610	540	68	40	690,-	963-130H	200,-
HFM 3T0.5	3000	500	16	270	200	175	610	540	74	40	710,-	963-132H	500,-
HFM 5T0.5	5000	500	24	300	230	190	730	650	74	55	930,-	963-132H	500,-
HFM 10T1	10000	1000	34	300	230	190	840	750	92	60	1260,-	963-133H	700,-



Robust industrial crane scale with EC type approval [M] – perfect for high-capacity applications which require verification

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

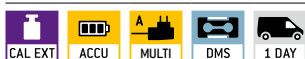
- High resolution readability: Readability [d] for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- 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, 2×1.5 V AAA

Technical data

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

15

STANDARD




OPTION



FACTORY



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	
				A	B	C	D	E	F	G		 KERN	€	DAkkS KERN	€
KERN				mm	mm	mm	mm	mm	mm	mm					
HFO 1.5T0.5M	1500	500	16	270	200	175	610	540	60	35	1030,-	965-130H	132,-	963-130H	200,-
HFO 3T1M	3000	1000	17	270	200	175	610	540	80	47	1130,-	965-132H	200,-	963-132H	500,-
HFO 6T2M	6000	2000	30	300	230	190	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.

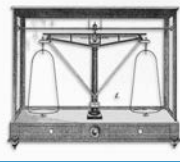
Verification at the factory, we need to know the full address of the location of use.

1 ONLY WHILE STOCKS LAST!



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
 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 DAkkS/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