

HANGING SCALES/ CRANE SCALES



2017



PROFESSIONAL
MEASURING

KERN Pictograms

	Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).		Piece counting: Reference quantities selectable. Display can be switched from piece to weight.		Rechargeable battery pack: Rechargeable set.
	Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.		Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).		Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
	Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.		Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.		Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
	Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 199		Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition.		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.		Totalising level A: The weights of similar items can be added together and the total 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. High tolerance against electromagnetic disturbance.		Percentage determination: Determining the deviation in % from the target value (100 %).		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.		Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.		Weighing principle: 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.		Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning		Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.
	WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.		Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.		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.		Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 56.		DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram.
	Interface for second balance: For direct connection of a second balance.		ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.		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. With KERN products you can use a universal RS-232/LAN converter. See page 166		Stainless steel: The balance is protected against corrosion.		Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
	Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.		Suspended weighing: Load support with hook on the underside of the balance.		Warranty: The warranty period is shown in the pictogram.
	GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.		Battery operation: Ready for battery operation. The battery type is specified for each device.		
	GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories", see page 163.				



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 – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable


- 3 years warranty for balances over € 400,-
- Precision in weighing technology for more than 170 years


competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001:2008
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EEC


versatile


- One-stop shopping: from pocket balances through to floor scales – 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 [0] 7433 9933-0


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

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 **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).

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

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

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

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

Note




DAkkS calibration (DKD) 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 192, 197, 198 or directly from one of our test service specialists, we will be pleased to help you.



Your product specialist's recommendation:

-  **For loads up to 10 tons**
-  **Can also be used for tensile force measurement**
-  **TÜV-tested safety**



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Hanging scales/Crane scales

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from €
590,-

► page 151



KERN HFA

Quick-Finder Hanging scales/Crane scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page										For an explanation on the pictos, see the front flap	
5 g	5 kg	HDB 5K5N	60,-	149	1		●						●		
10 g	10 kg	HDB 10K10N	60,-	149	1		●						●		
10 g	20 kg	HCB 20K10	105,-	150	1		●						●		
20 g	15 kg	CH 15K20	71,-	149	1		●						●		
20 g	50 kg	HCB 50K20	115,-	150	1		●						●		
50 g	50 kg	CH 50K50	76,-	149	1		●						●		
50 g	99 kg	HCB 99K50	100,-	150	1		●						●		
50 g	150 kg	HFB 150K50	355,-	153	1		●						●	●	
100 g	50 kg	CH 50K100	66,-	149	1		●						●		
100 g	50 kg	HCB 50K100	90,-	150	1		●						●		
100 g	50 kg	HCN 50K100IP	130,-	150	1		●			●	●		●		
100 g	200 kg	HCB 200K100	110,-	150	1		●			●			●		
100 g	300 kg	HFB 300K100	385,-	153	1		●						●	●	
100 g	1 t	HFM 1T0.1	720,-	154	1		●						●	●	
200 g	100 kg	HCB 100K200	110,-	150	1		●						●		
200 g	100 kg	HCN 100K200IP	130,-	150	1		●			●	●		●		
200 g	600 kg	HFA 600K-1	590,-	151	1		●			●	●		●	●	
200 g	600 kg	HFC 600K-1	990,-	152	1		●						●	●	
200 g	600 kg	HFB 600K200	385,-	153	1		●						●	●	
500 g	1 t	HFA 1T-4	690,-	151	1		●						●	●	
500 g	1 t	HFC 1T-4	990,-	152	1		●						●	●	
500 g	1,5 t	HFO 1.5T0.5M	1050,-	154	1	○	●						●	●	
500 g	1,5 t	HTS 1T-4AM	1190,-	155	1	○	●						●	●	
500 g	200 kg	HCB 200K500	99,-	150	1		●						●		
500 g	200 kg	HCN 200K500IP	130,-	150	1		●			●	●		●		
500 g	3 t	HFM 3T0.5	750,-	154	1		●						●	●	
500 g	3 t	HFT 3T0.5	1270,-	156	1		●						●	●	
500 g	5 t	HFM 5T0.5	970,-	154	1		●						●	●	
1000 g	0,5 t	HCB 0.5T-3	215,-	150	1		●						●		
1000 g	3 t	HFA 3T-3	750,-	151	1		●						●	●	
1000 g	3 t	HFC 3T-3	1050,-	152	1		●						●	●	
1000 g	3 t	HFO 3T1M	1180,-	154	1	○	●						●	●	
1000 g	3 t	HTS 3T-3AM	1250,-	155	1	○	●						●	●	
1000 g	5 t	HFT 5T1	1510,-	156	1		●						●	●	
1000 g	10 t	HFM 10T1	1330,-	154	1		●						●	●	
2000 g	1 t	HCB 1T-3	275,-	150	1		●						●		
2000 g	5 t	HFA 5T-3	790,-	151	1		●						●	●	
2000 g	5 t	HFC 5T-3	1090,-	152	1		●						●	●	
2000 g	6 t	HFO 6T2M	1470,-	154	1	○	●						●	●	
2000 g	6 t	HTS 6T-3AM	1320,-	155	1	○	●						●	●	
5000 g	10 t	HFA 10T-3	1050,-	151	1		●						●	●	
5000 g	10 t	HFC 10T-3	1370,-	152	1		●						●	●	
5000 g	10 t	HTS 10T-3AM	1460,-	155	1	○	●						●	●	
2000 g	10 t	HFT 10T2	1880,-	156	2		●						●	●	
5000 g	15 t	HFT 15T5	2650,-	156	2		●						●	●	

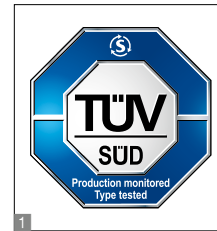
● = standard ○ = option



KERN HDB-N



KERN CH



Convenient, economical and always handy

Features

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

Technical data

HDB-N

- LCD display, digit height 12 mm
- **Hook, stainless steel**, can be hinged
- 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

CH

- LCD display, digit height 11 mm
- **Hook, stainless steel**
- **2 Tape measure**, extractable, length approx. 100 cm
- **Peak load display** (peak hold)
- 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, **€ 67,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] kg	Dimensions housing W×D×H mm	Net weight ca. kg	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
						DKD KERN	€
HDB 5K5N	5	5	70×25×105	0,20	60,-	963-127H	72,-
HDB 10K10N	10	10	70×25×105	0,20	60,-	963-128H	88,-
CH 15K20	15	20	90×30×176,5	0,35	71,-	963-128H	88,-
CH 50K50	50	50	90×30×176,5	0,35	76,-	963-128H	88,-
CH 50K100	50	100	90×30×176,5	0,35	66,-	963-128H	88,-



KERN HCB



KERN HCN



The handy scales for higher loads up to 1 t

Features

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- 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

Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm

HCB

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

HCN

- Housing stainless steel, protected against dust and water splashes IP65
- **3** **Second display** on the rear of the balance
- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h

Accessories

for models with [Max] ≤ 200 kg

- Snap link (stainless steel) with safety catch, standard, opening approx. 15 mm. Can be retrofitted, KERN HCB-A01, **€ 33,-**
 - Hook (stainless steel), standard, opening approx. 25 mm. Can be reordered, KERN HCB-A02, **€ 30,-**
- for models with [Max] ≤ 20 kg**

- **Tare pan with pan beam**, details see *Accessories*, KERN CH-A01N, **€ 67,-**
- for models with [Max] ≥ 0,5 t**

- **4** **Hook with safety lock**, cast steel, galvanised and coated, with stud bolt, non-rotating, suitable for models KERN HCB, HFA, HFC with [Max] ≤ 1 t, KERN YHA-01, **€ 160,-**
- **5** **High-strength shackle**, cast steel, hot-dip galvanised, bow shaped with coated stud bolt, suitable for models KERN HCB, HFA, HFC with [Max] ≥ 0,5 t, KERN YSC-03, **€ 50,-**

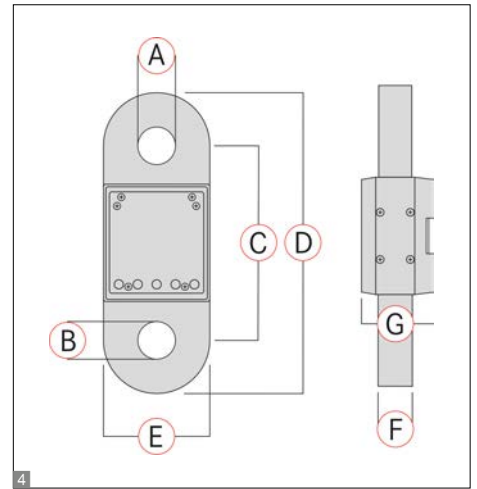
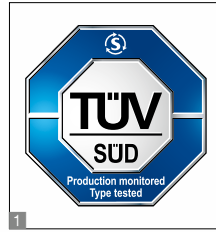
STANDARD

CAL EXT UNIT MOVE IP 65 INOX BATT 1 DAY WARRANTY 2 YEARS

OPTION

DAkks +3 DAYS

Model	Weighing range	Readout	Dimensions housing W×D×H mm	Height with hook and snap link mm	Net weight ca. kg	Price excl. of VAT ex works €	Option	
							DAkks Calibr. Certificate	€
KERN	[Max] kg	[d] g					DKD KERN	
HCB 20K10	20	10	80×45×150	290	0,60	105,-	963-128H	88,-
HCB 50K20	50	20	80×45×150	290	0,60	115,-	963-128H	88,-
HCB 50K100	50	100	80×45×150	290	0,60	90,-	963-128H	88,-
HCB 99K50	99	50	80×45×150	290	0,60	100,-	963-129H	105,-
HCB 100K200	100	200	80×45×150	290	0,35	110,-	963-129H	105,-
HCB 200K100	200	100	80×45×150	290	0,60	110,-	963-129H	105,-
HCB 200K500	200	500	80×45×150	290	0,60	99,-	963-129H	105,-
HCB 0.5T-3	500	1000	80×42×152	-	0,35	215,-	963-130H	165,-
HCB 1T-3	1000	2000	80×48×150	-	0,55	275,-	963-130H	165,-
Stainless steel								
HCN 50K100IP	50	100	95×50×180	315	0,80	130,-	963-128H	88,-
HCN 100K200IP	100	200	95×50×180	315	0,80	130,-	963-129H	105,-
HCN 200K500IP	200	500	95×50×180	315	0,80	130,-	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

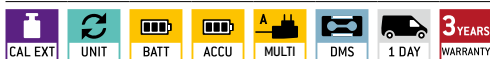
Technical data

- 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, 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**, cast steel hot-dip galvanised, bow shaped with coated stud bolt, suitable for models with [Max] ≤ 3 t: KERN YSC-01, **€ 100,-** [Max] ≥ 5 t: KERN YSC-02, **€ 210,-**
- **3 Hook with safety catch**, cast steel, galvanised and lacquered, with stud bolt, non-revolving, suitable for models with [Max] ≤ 1 t: KERN YHA-01, **€ 160,-** [Max] = 3 t: KERN YHA-02, **€ 180,-** [Max] = 5 t: KERN YHA-03, **€ 210,-** [Max] > 5 t: KERN YHA-04, **€ 400,-**

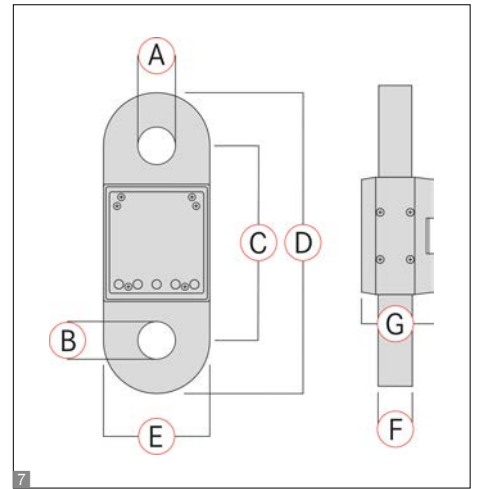
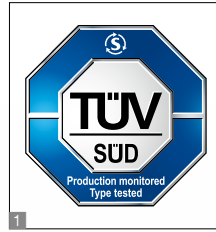
STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	4 Dimensions						Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
				A = B mm	C mm	D mm	E mm	F mm	G mm		DKD KERN	€
KERN HFA 600K-1	600	200	2	27	165	255	90	30	55	590,-	963-130H	165,-
KERN HFA 1T-4	1000	500	2	27	165	255	90	30	55	690,-	963-130H	165,-
KERN HFA 3T-3	3000	1000	2	27	165	255	90	30	61	750,-	963-132H	500,-
KERN HFA 5T-3	5000	2000	4	30	165	255	90	30	61	790,-	963-132H	500,-
KERN HFA 10T-3	10000	5000	6	40	185	275	90	40	71	1050,-	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**. In this way the weighing data can always be read off the display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Standard. Range up to 100 m. All functions can be selected. LCD display, digit height 23 mm, rechargeable battery pack internal, standard. Operating time up to 30 h without backlight, charging time approx. 12 h. Can be re-ordered, KERN HFC-A01, **€ 60,-** Dimensions Housing (display device) B×T×H 88×64×256 mm Net weight approx. 0,5 kg

Technical data

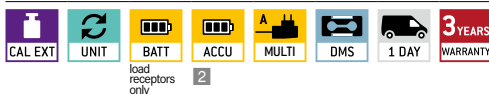
- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel
- Optional battery operation, 3×1.5 V AA not included, operating time up to 40 h

- Precision: 0,2% of [Max]
- Measuring frequency 60 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **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,** cast steel hot-dip galvanised, bow shaped with coated stud bolt, suitable for models with [Max] ≤ 3t: KERN YSC-01, **€ 100,-** [Max] ≥ 5t: KERN YSC-02, **€ 210,-**
- **6 Hook with safety catch,** cast steel, galvanised and lacquered, with stud bolts, non-revolving, suitable for models with [Max] ≤ 1t: KERN YHA-01, **€ 160,-** [Max] = 3t: KERN YHA-02, **€ 180,-** [Max] = 5t: KERN YHA-03, **€ 210,-** [Max] > 5t: KERN YHA-04, **€ 400,-**

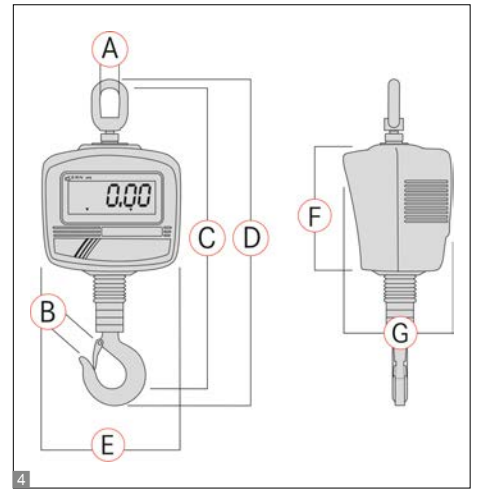
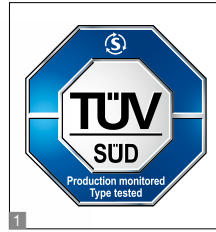
STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	7 Dimensions						Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
				A = B mm	C mm	D mm	E mm	F mm	G mm		DKD KERN	€
KERN HFC 600K-1	600	200	1,8	27	165	255	90	30	55	990,-	963-130H	165,-
HFC 1T-4	1000	500	1,8	27	165	255	90	30	55	990,-	963-130H	165,-
HFC 3T-3	3000	1000	2,2	27	165	255	90	30	61	1050,-	963-132H	500,-
HFC 5T-3	5000	2000	4	30	165	255	90	30	61	1090,-	963-132H	500,-
HFC 10T-3	10000	5000	6	40	185	275	90	40	71	1370,-	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
- Dimensions housing W×D×H 162×123×158,5 mm
- Rechargeable battery pack internal, operating time up to 40 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 WARRANTY 3 YEARS

OPTION

DAkkS +3 DAYS

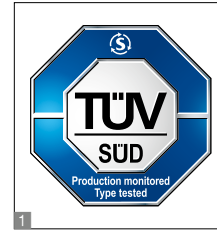
Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	4 Dimensions							Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
				A	B	C	D	E	F	G		DKD KERN	€
KERN				mm	mm	mm	mm	mm	mm	mm			
HFB 150K50	150	50	3,2	26	25	358	390	163	158,5	126	355,-	963-129H	105,-
HFB 300K100	300	100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



KERN HFM



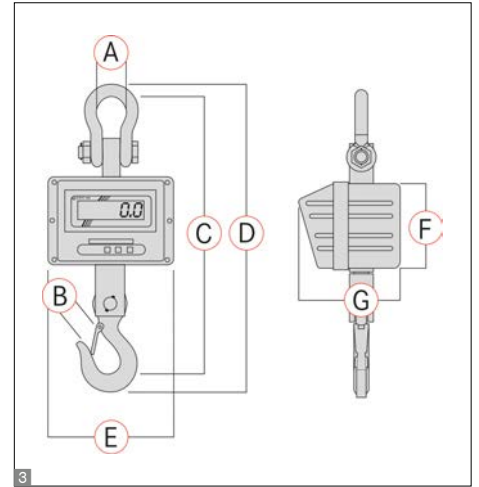
KERN HFO



1



2



3

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

Features

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable 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.)

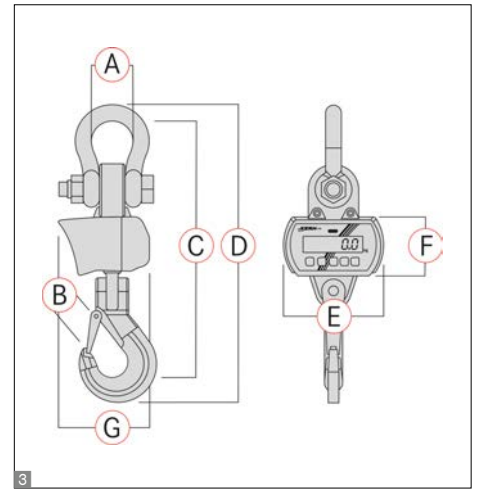
- **Adaptation to unstable environmental conditions** by changing the readability
- **High resolution readout:** Readout [d] for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the Hold key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, revolving
- **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 backlight 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	

Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Options			
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		Verification		DAkkS Calibr. Certificate	
KERN													€		€
HFM 1T0.1	1000	100	13,2	80	40	540	610	270	200	175	720,-	-	-	963-130H	165,-
HFM 3T0.5	3000	500	15,7	75	50	540	610	270	200	175	750,-	-	-	963-132H	500,-
HFM 5T0.5	5000	500	22,3	75	50	650	730	300	230	190	970,-	-	-	963-132H	500,-
HFM 10T1	10000	1000	34	100	60	750	840	300	230	190	1330,-	-	-	963-133H	700,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.															
HFO 1.5T0.5M	1500	500	15	80	40	540	610	270	200	175	1050,-	950-130H	200,-	963-130H	165,-
HFO 3T1M	3000	1000	16,5	75	50	540	610	270	200	175	1180,-	950-132H	500,-	963-132H	500,-
HFO 6T2M	6000	2000	25	75	50	650	730	300	230	190	1470,-	965-132H	500,-	963-132H	500,-



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

Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable 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.)

- Range of tare: 100 % of [Max]
- LED display with Gross/Tare/Net
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **Hook with safety catch**, non-revolving
- **2 Infrared remote control** standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included, 9 V

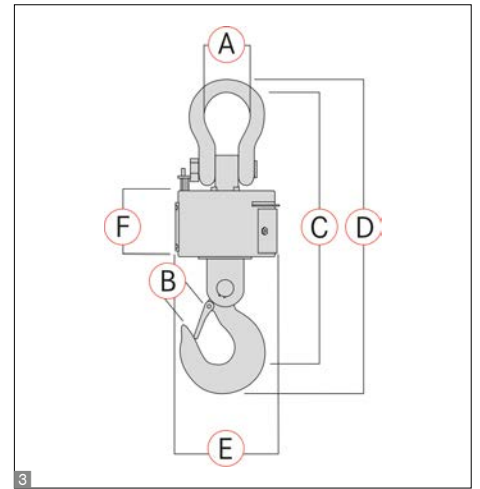
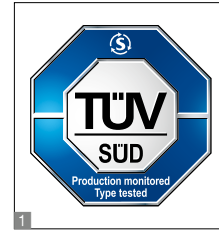
Technical data

- **Superior display size:** digit height 25 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 150 h without backlight, charging time approx. 12 h
- Precision: 0,1% of [Max]
- Net weight
HTS 1T-4AM: approx. 7 kg
HTS 3T-3AM: approx. 9 kg
HTS 6T-3AM: approx. 12 kg
HTS 10T-3AM: approx. 20 kg
- Permissible ambient temperature -20 °C/40 °C

STANDARD						OPTION		FACTORY	
CAL EXT	ACCU	MULTI	DMS	1 DAY	3 YEARS WARRANTY	DAkkS	DAkkS	DAkkS	DAkkS
						+3 DAYS			+3 DAYS

Model	Weighing range [Max] kg	Readout [d] = [e] g	Minimal load [Min] kg	3 Dimensions							Price excl. of VAT ex works €	Options			
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		Verification		DAkkS Calibr. Certificate	
KERN													€		€
HTS 1T-4AM	1500	500	10	33	29	315	359	200	121	181	1190,-	950-130H	200,-	963-130H	165,-
HTS 3T-3AM	3000	1000	20	43	47	347	369	200	121	181	1250,-	950-132H	500,-	963-132H	500,-
HTS 6T-3AM	6000	2000	40	58	55	440	519	200	121	181	1320,-	950-132H	500,-	963-132H	500,-
HTS 10T-3AM	10000	5000	100	83	61	335	628	200	121	181	1460,-	950-133H	700,-	963-133H	700,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



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

Features

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- **Weighing unit without display**, therefore very robust
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the Hold key is pressed

- **Hook with safety catch**, revolving
- **2** **Display with integrated radio module**, in this way the weighing data can easily be read off the display by the user, even if the user might find himself in a remote distance from the crane scale. Range up to 20 m. The integrated RS-232 data interface allows from connection to a printer, PC or network

Technical data

- Separate display with large, backlit LCD display, digit height 22 mm. Dimensions W×D×H 175×50×85 mm, incl. Antenna W×D×H 130×650×130 mm
- Precision: 0,2% of [Max]
- Permissible ambient temperature 0 °C/40 °C

Accessories

- Weighing unit: **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 8 h, KERN VFB-A02, **€ 40,-**
- Display device: **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 8 h, KERN GAB-A04, **€ 40,-**
- **Interface cable RS-232**, to connect the display device to a printer, PC, etc., cable length approx.1,5 m, KERN KFF-A01, **€ 46,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



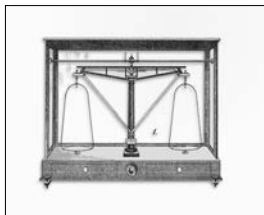
Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	3 Dimensions						Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F mm		DKD KERN	€
HFT 3T0.5	3000	500	28	73	39	545	650	270	145	1270,-	963-132H	500,-
HFT 5T1	5000	1000	45	76	51	635	760	270	147	1510,-	963-132H	500,-
HFT 10T2	10000	2000	53	92	61	735	840	270	167	1880,-	963-133H	700,-
HFT 15T5	15000	5000	73	99	61	842	950	320	160	2650,-	963-133H*	700,-

*Calibration up to [Max] = 12 t

Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

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by KERN & SOHN GmbH
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► 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/EU)



► 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

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