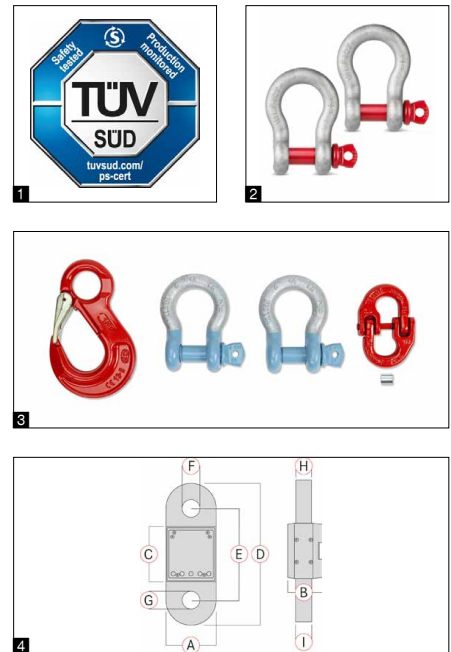


Crane Scale KERN HFA



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

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)
- 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“ 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 bushing [Max] > 3 t: steel/steel
- Rechargeable battery pack integrated, as standard, 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 30 h
- Precision: 0,2 % of [Max]
- Internal measuring frequency: 60 Hz
- 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 [Max] = 10 t: KERN YSC-02
- **3** Hook with safety catch, galvanised and lacquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook [Max] ≤ 1 t: KERN YHA-01 [Max] = 3 t: KERN YHA-02 [Max] = 5 t: KERN YHA-03 [Max] = 10 t: KERN YHA-04

STANDARD



OPTION



Model	Weighing capacity	Readability	Net weight	4 Dimensions										Options	
				A	B	C	D	E	F	G	H	I			
KERN	[d] kg	[d] g	approx. kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DAkkS Calibr. Certificate DAkkS KERN
HFA 600K-1	600	200	1,8	90	62	100	255	165	32	32	30	30		963-130H	
HFA 1T-4	1000	500	1,8	90	62	100	255	165	32	32	30	30		963-130H	
HFA 3T-3	3000	1000	2,0	90	62	100	255	165	32	32	30	30		963-132H	
HFA 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30		963-132H	
HFA 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40		963-133H	

<p>Internal adjusting Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)</p>	<p>Interface for second balance For direct connection of a second balance</p>	<p>Hold function (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value</p>	<p>Conformity Assessment The time required for conformity assessment is specified in the pictogram</p>
<p>Adjusting program CAL For quick setting up of the balance's accuracy. External adjusting weight required</p>	<p>Network interface For connecting the scale to an Ethernet network</p>	<p>Protection against dust and water splashes IPxx The type of protection is shown in the pictogram</p>	<p>DAkkS calibration possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram</p>
<p>EasyTouch Suitable for the connection, data transmission and control through PC or tablet</p>	<p>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</p>	<p>Suspended weighing Load support with hook on the underside of the balance</p>	<p>Factory calibration (ISO) The time required for Factory calibration is shown in days in the pictogram</p>
<p>Memory Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</p>	<p>GLP/ISO log intern The balance displays weight, date and time, independent of a printer connection</p>	<p>Battery operation Ready for battery operation. The battery type is specified for each device</p>	<p>Package shipment The time required for internal shipping preparations is shown in days in the pictogram</p>
<p>Alibi memory Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.</p>	<p>GLP/ISO log Printer With weight, date and time. Only with KERN printers.</p>	<p>Rechargeable battery pack Rechargeable set</p>	<p>Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram</p>
<p>KERN Universal Port (KUP) allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort</p>	<p>Piece counting Reference quantities selectable. Display can be switched from piece to weight</p>	<p>Universal plug-in power supply with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS</p>	
<p>RS-232 Data interface To connect the balance to a printer, PC or network</p>	<p>Recipe level A The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out</p>	<p>Plug-in power supply 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available</p>	
<p>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</p>	<p>Recipe level B Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display</p>	<p>Integrated power supply unit Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request</p>	
<p>USB Data interface To connect the balance to a printer, PC or other peripherals</p>	<p>Totalising level A The weights of similar items can be added together and the total can be printed out</p>	<p>Weighing principle Strain gauges Electrical resistor on an elastic deforming body</p>	
<p>Bluetooth* Data interface To transfer data from the balance to a printer, PC or other peripherals</p>	<p>Percentage determination Determining the deviation in % from the target value (100 %)</p>	<p>Weighing principle Tuning fork A resonating body is electromagnetically excited, causing it to oscillate</p>	
<p>WIFI Data interface To transfer data from the balance to a printer, PC or other peripherals</p>	<p>Weighing units Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details</p>	<p>Weighing principle Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings</p>	
<p>Control outputs (optocoupler, digital I/O) To connect relays, signal lamps, valves, etc.</p>	<p>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</p>	<p>Weighing principle Single cell technology Advanced version of the force compensation principle with the highest level of precision</p>	
<p>Analogue interface to connect a suitable peripheral device for analogue processing of the measurements</p>			

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