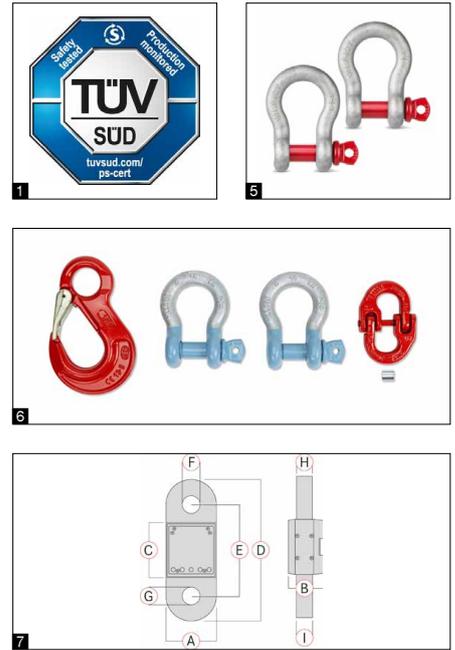


Crane Scale KERN HFC



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 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.
- 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
- Display device with integrated radio module, which the user can carry around with him, thanks to the convenient hand strap, 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. All functions can be selected

Technical data

- Material and design of housing/load support, models with
[Max] ≤ 3 t: aluminium/stainless steel bushing
[Max] > 3 t: steel/steel
- Precision: 0,2 % of [Max]
- Internal measuring frequency: 10 Hz
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Display device

- Large backlit LCD display, digit height 23 mm
- **2** Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- Dimensions of display device W×D×H
88×64×256 mm

Load receptor

- **3** Internal rechargeable battery pack included with the delivery, Operating time up to 35 h without backlight, charging time approx. 8 h
- **4** Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h

Accessories

- **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] ≤ 5 t: KERN YSC-01
[Max] = 10 t: KERN YSC-02
- **6** 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	7 Dimensions										Options		
				A	B	C	D	E	F	G	H	I	DAkkS Calibr.	Certificate		
KERN	[d] kg	[d] g	approx. kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DAkkS	KERN
HFC 600K-1	600	200	1,8	90	62	100	255	165	32	32	30	30			963-130H	
HFC 1T-4	1000	500	1,8	90	62	100	255	165	32	32	30	30			963-130H	
HFC 3T-3	3000	1000	2,2	90	62	100	255	165	32	32	30	30			963-132H	
HFC 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30			963-132H	
HFC 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40			963-133H	

CAL INT
Internal adjusting
 Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

CAL EXT
Adjusting program CAL
 For quick setting up of the balance's accuracy. External adjusting weight required

ET
EasyTouch
 Suitable for the connection, data transmission and control through PC or tablet

MEMORY
Memory
 Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

ALIBI
Alibi memory
 Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.

KUP
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

RS 232
RS-232 Data interface
 To connect the balance to a printer, PC or network

RS 485
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

USB
USB Data interface
 To connect the balance to a printer, PC or other peripherals

BT
Bluetooth* Data interface
 To transfer data from the balance to a printer, PC or other peripherals

WIFI
WIFI Data interface
 To transfer data from the balance to a printer, PC or other peripherals

SWITCH
Control outputs
 (optocoupler, digital I/O)
 To connect relays, signal lamps, valves, etc.

ANALOG
Analogue interface
 to connect a suitable peripheral device for analogue processing of the measurements

DUAL
Interface for second balance
 For direct connection of a second balance

LAN
Network interface
 For connecting the scale to an Ethernet network

KCP PROTOCOL
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

GLP INTERN
GLP/ISO log intern
 The balance displays weight, date and time, independent of a printer connection

GLP PRINTER
GLP/ISO log Printer
 With weight, date and time. Only with KERN printers.

PCS
Piece counting
 Reference quantities selectable. Display can be switched from piece to weight

RECIPE A
Recipe level A
 The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

RECIPE B
Recipe level B
 Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

SUM A
Totalising level A
 The weights of similar items can be added together and the total can be printed out

PERCENT
Percentage determination
 Determining the deviation in % from the target value (100 %)

UNIT
Weighing units
 Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details

TOL
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

MOVE
Hold function
 (Animal weighing program)
 When the weighing conditions are unstable, a stable weight is calculated as an average value

IP
Protection against dust and water splashes IPxx
 The type of protection is shown in the pictogram

UNDER
Suspended weighing
 Load support with hook on the underside of the balance

BATT
Battery operation
 Ready for battery operation. The battery type is specified for each device

ACCU
Rechargeable battery pack
 Rechargeable set

MULTI
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

230 V
Plug-in power supply
 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

230 V
Integrated power supply unit
 Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request

DMS
Weighing principle Strain gauges
 Electrical resistor on an elastic deforming body

T-FORK
Weighing principle Tuning fork
 A resonating body is electromagnetically excited, causing it to oscillate

FORCE
Weighing principle Electromagnetic force compensation
 Coil inside a permanent magnet. For the most accurate weighings

SC TECH
Weighing principle Single cell technology
 Advanced version of the force compensation principle with the highest level of precision

M +3 DAYS
Conformity Assessment
 The time required for conformity assessment is specified in the pictogram

DAkkS +3 DAYS
DAkkS calibration possible (DKD)
 The time required for DAkkS calibration is shown in days in the pictogram

ISO +4 DAYS
Factory calibration (ISO)
 The time required for Factory calibration is shown in days in the pictogram

1 DAY
Package shipment
 The time required for internal shipping preparations is shown in days in the pictogram

2 DAYS
Pallet shipment
 The time required for internal shipping preparations is shown in days in the pictogram

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