15

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: Calibration accredited by DAkkS 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.

All the important details see *DAkkS Calibration Service* or directly from one of our test service specialists, we will be pleased to help you.

Quick-Finder Hanging Scales/Crane Scales

Readout [d] kg	Weighing range [Max] kg	Model KERN	Page	M			IP		
				For an explanation on the pictos, see the front flap					
0,005	5	**HDB 5K5N**	154		●	●		●	
0,01	10	**HDB 10K10N**	154		●	●		●	
0,01	15	**HDB 10K-2XL**	154		●	●		●	
0,01	20	**HCB 20K10**	155		●	●		●	
0,02	15	**CH 15K20**	153		●	●		●	
0,02	30	**HDB 30K-2XL**	154		●	●		●	
0,02	50	**HCB 50K20**	155		●	●		●	
0,02	60	**HCD 60K-2**	157		●	●		●	○
0,02 | 0,05	60 | 150	**HCD 100K-2D**	157		●	●		●	○
0,05	50	**CH 50K50**	153		●	●		●	
0,05	99	**HCB 99K50**	155		●	●		●	
0,05	150	**HCD 100K-2**	157		●	●		●	○
0,05 | 0,1	150 | 300	**HCD 300K-2D**	157		●	●		●	○
0,05 | 0,1 | 0,2	150 | 300 | 600	**HFD 600K-1**	160		●				●
0,05 | 0,1 | 0,2	150 | 300 | 600	**HFD 600K-1IP**	160		●		●		●
0,1	50	**CH 50K100**	153		●	●		●	
0,1	50	**HCB 50K100**	155		●	●		●	
0,1	50	**HCN 50K100IP**	156		●	●	●	●	
0,1	200	**HCB 200K100**	155		●	●		●	
0,1	300	**HCD 300K-1**	157		●	●		●	○
0,1	1000	**HFM 1T0.1**	162		●				●
0,1 | 0,2 | 0,5	300 | 600 | 1500	**HFD 1T-4**	160		●				●
0,1 | 0,2 | 0,5	300 | 600 | 1500	**HFD 1T-4IP**	160		●		●		●
0,2	100	**HCB 100K200**	155		●	●		●	
0,2	100	**HCN 100K200IP**	156		●	●	●	●	
0,2	600	**HFA 600K-1**	158		●			●	●
0,2	600	**HFC 600K-1**	159		●			●	●
0,2	600	**HFD 600K-1M**	160	○	●				●
0,2 | 0,5 | 1	600 | 1500 | 3000	**HFD 3T-3**	160		●				●
0,2 | 0,5 | 1	600 | 1500 | 3000	**HFD 3T-3IP**	160		●		●		●
0,5	200	**HCB 200K500**	155		●	●		●	
0,5	200	**HCN 200K500IP**	156		●	●	●	●	
0,5	1000	**HFA 1T-4**	158		●			●	●
0,5	1000	**HFC 1T-4**	159		●			●	●
0,5	1500	**HFD 1T-4M**	160	○	●				●
0,5	3000	**HFM 3T0.5**	162		●				●
0,5	5000	**HFM 5T0.5**	162		●				●
0,5 | 1 | 2	1500 | 3000 | 6000	**HFD 6T-3**	160		●				●
0,5 | 1 | 2	1500 | 3000 | 6000	**HFD 6T-3IP**	160		●		●		●
1	500	**HCB 0.5T-3**	155		●	●		●	
1	3000	**HFA 3T-3**	158		●			●	●
1	3000	**HFC 3T-3**	159		●			●	●
1	3000	**HFD 3T-3M**	160	○	●				●
1	10000	**HFM 10T1**	162		●				●
1 | 2 | 5	3000 | 6000 | 12000	**HFD 10T-3**	160		●				●
1 | 2 | 5	3000 | 6000 | 12000	**HFD 10T-3IP**	160		●		●		●
2	1000	**HCB 1T-3**	155		●	●		●	
2	5000	**HFA 5T-3**	158		●			●	●
2	5000	**HFC 5T-3**	159		●			●	●
2	6000	**HFD 6T-3M**	160	○	●				●
5	10000	**HFA 10T-3**	158		●			●	●
5	10000	**HFC 10T-3**	159		●			●	●
5	12000	**HFD 10T-3M**	160	○	●				●

● Standard ○ Option

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1

2

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The classic among manual hanging scales – perfect for rapid weighing of 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)
- Hook made of 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 80 h
- Weighing units: kg, lb, N
- Overall dimensions W×D×H 90×30×283 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature 5 °C/35 °C

STANDARD

OPTION

Model	Weighing capacity	Readability	Options
			Calibr. Certificate
KERN	[Max] kg	[d] g	DAkkS accr. KERN
CH 15K20	15	20	963-128H
CH 50K50	50	50	963-128H
CH 50K100	50	100	963-128H

KERN HDB-N

KERN HDB-XL

1

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User-friendly hanging scale for rapid, mobile weighing

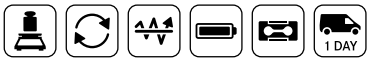
Features

- 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)
- HDB-XL: High-capacity XL-version. The larger design creates space for a large handle, which enables even better handling especially with heavier loads
- 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, included with the delivery. Can be hinged on HDB-N models
- 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 100 h
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

STANDARD



OPTION

Model	Weighing capacity	Readability	Dimensions	Net weight	Options
					Calibr. Certificate
KERN	[Max] kg	[d] g	W×D×H mm	approx. kg	DAkkS accr. KERN
HDB 5K5N	5	5	72×25×188	0,20	963-127H
HDB 10K10N	10	10	72×25×188	0,20	963-128H
			High-capacity XL-version		
HDB 10K-2XL	15	10	101×25×203	0,25	963-128H
HDB 30K-2XL	30	20	101×25×211	0,25	963-128H

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Handy hanging scale for higher loads

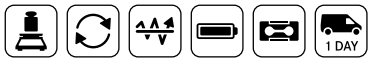
Features

- 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 and hook (stainless steel) as standard, see larger picture
- 2 [Max] ≥ 500 kg: Reinforced version for heavy loads. Snap link and hook not included, see *internet*

Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with
  [Max] ≤ 200 kg: approx. 14 mm
  [Max] ≥ 500 kg: approx. 16 mm
- Weighing units: kg, lb, N
- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h
- Permissible ambient temperature 5 °C/35 °C

STANDARD



OPTION

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Options Calibr. Certificate DAkkS accr. KERN
HCB 20K10	20	10	82×43×153	0,30	963-128H
HCB 50K20	50	20	82×43×153	0,30	963-128H
HCB 99K50	99	50	82×43×153	0,30	963-129H
HCB 50K100	50	100	82×43×153	0,30	963-128H
HCB 200K100	200	100	82×43×153	0,30	963-129H
HCB 100K200	100	200	82×43×153	0,30	963-129H
HCB 200K500	200	500	82×43×153	0,30	963-129H
HCB 0.5T-3	500	1000	82×43×153	0,40	963-130H
HCB 1T-3	1000	2000	82×48×153	0,60	963-130H

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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)
- 2 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)
- Internal measuring frequency: 5 Hz
- Snap link (stainless steel) with safety catch as standard
- Hook (stainless steel) as standard

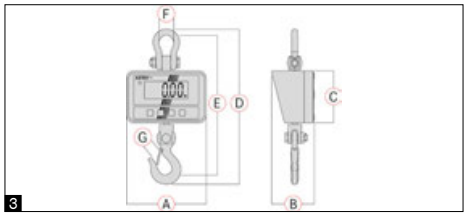
Technical data

- LCD display, digit height 12 mm
- 3 Second display on the back of the balance
- Hole diameter of load support ca. 14 mm
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 300 h
- Weighing units: kg, lb, N
- Overall dimensions W×D×H 96×48×179 mm
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/35 °C

STANDARD

OPTION

Model	Weighing capacity	Readability	Options
			Calibr. Certificate
KERN	[Max] kg	[d] g	DAkkS accr. KERN
HCN 50K100IP	50	100	963-128H
HCN 100K200IP	100	200	963-129H
HCN 200K500IP	200	500	963-129H



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High-resolution crane scale for loads up to 300 kg

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)
- 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
- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- Battery level indicator, LED visual display
- 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
- Large high-contrasted 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
- 2 Infrared remote control standard, range up to 20 m, 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]
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/40 °C

STANDARD

OPTION

Model	Weighing capacity [Max]	Readability [d]	Net weight	3 Dimensions							Options
											Calibr. Certificate
KERN	kg	g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	DAkkS accr. KERN
HCD 60K-2*	60	20	1,2	150	79,3	97,7	276,1	246,5	26	18	963-129H
HCD 100K-2	150	50	1,2	150	79,3	97,7	276,1	246,5	26	18	963-129H
HCD 300K-1	300	100	1,2	150	79,3	97,7	276,1	246,5	26	18	963-129H
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].											
HCD 100K-2D	60 | 150	20 | 50	1,2	150	79,3	97,7	276,1	246,5	26	18	963-129H
HCD 300K-2D	150 | 300	50 | 100	1,2	150	79,3	97,7	276,1	246,5	26	18	963-129H

! * ONLY WHILE STOCKS LAST

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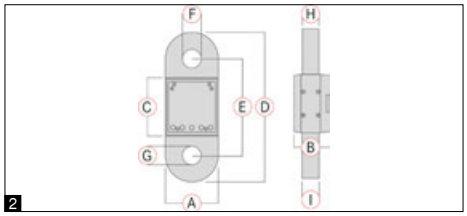

2

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

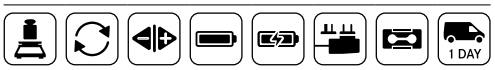
Features

- 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
- 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

STANDARD



OPTION

Model	Weighing capacity	Readability	Net weight	2 Dimensions									Options
													Calibr. Certificate
KERN	[Max] kg	[d] g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	DAkkS accr. KERN
HFA 600K-1	600	200	1,8	90	62	100	255	165	27	27	30	30	963-130H
HFA 1T-4	1000	500	1,8	90	62	100	255	165	27	27	30	30	963-130H
HFA 3T-3	3000	1000	2,0	90	62	100	255	165	27	27	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

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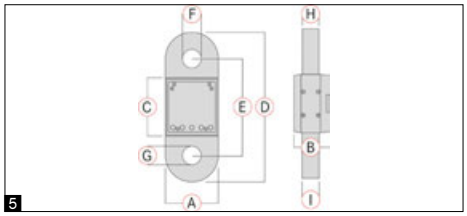

5

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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
- 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

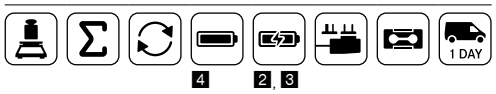
Display device

- 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 delievery, 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

STANDARD



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OPTION

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	5 Dimensions A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Options Calibr. Certificate DAkkS accr. KERN
HFC 600K-1	600	200	1,8	90	62	100	255	165	27	27	30	30	963-130H
HFC 1T-4	1000	500	1,8	90	62	100	255	165	27	27	30	30	963-130H
HFC 3T-3	3000	1000	2,2	90	62	100	255	165	27	27	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

KERN HFD/HFD-IP

KERN HFD-M

Robust, high-resolution crane scale up to 12 t, also with optional verification or protection type IP67

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

Solid shackles, non-revolving

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

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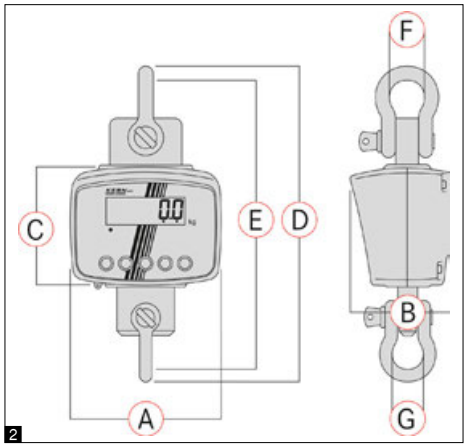

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Features

- 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)
- Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed

KERN HFD/HFD-IP

- Hold function: the weight display is “frozen” when the Hold button is pressed

KERN HFD-IP

- 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

KERN HFD-M

- The models with M add-on can be verified optionally and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- Will support you when weighing freight in a SOLAS compliant manner
- Sleep function: when the sleep button is pressed, the weight display is switched off, but the value remains stored. This can extend the battery life

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 integrated, as standard, operating time up to 70 h without backlight, charging time approx. 12 h. Battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2% of [Max]
- Weighing units: kg
- Permissible ambient temperature -10 °C/40 °C

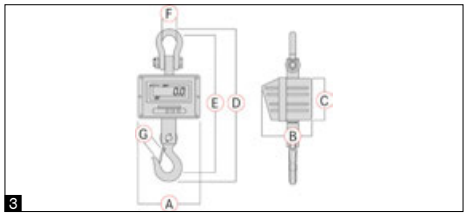
STANDARD | OPTION | FACTORY

HFD/ HFD-IP | IP 67 HFD-IP | 1 DAY | DAkkS | M HFD-M

Model	Weighing capacity	Readability	Net weight approx.	2 Dimensions						Options	
										Verification	Calibr. Certificate
KERN	[Max] kg	[d] g	kg	A mm	B mm	C mm	D mm	E mm	F=G mm	MIII KERN	DAkkS accr. KERN
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range											
HFD 600K-1	150 | 300 | 600	50 | 100 | 200	9	194	129	160	422	384	50,8	-	963-130H
HFD 1T-4	300 | 600 | 1500	100 | 200 | 500	9	194	129	160	422	384	50,8	-	963-130H
HFD 3T-3	600 | 1500 | 3000	200 | 500 | 1000	10	194	129	160	457	413	58	-	963-132H
HFD 6T-3	1500 | 3000 | 6000	500 | 1000 | 2000	15	194	129	160	518	467	68,3	-	963-132H
HFD 10T-3	3000 | 6000 | 12000	1000 | 2000 | 5000	22	194	129	160	584	521	82,5	-	963-133H
Protection against dust and water splashes IP67											
HFD 600K-1IP	150 | 300 | 600	50 | 100 | 200	9	194	129	160	422	384	50,8	-	963-130H
HFD 1T-4IP	300 | 600 | 1500	100 | 200 | 500	9	194	129	160	422	384	50,8	-	963-130H
HFD 3T-3IP	600 | 1500 | 3000	200 | 500 | 1000	10	194	129	160	457	413	58	-	963-132H
HFD 6T-3IP	1500 | 3000 | 6000	500 | 1000 | 2000	15	194	129	160	518	467	68,3	-	963-132H
HFD 10T-3IP	3000 | 6000 | 12000	1000 | 2000 | 5000	22	194	129	160	584	521	82,5	-	963-133H
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.											
HFD 600K-1M	600	200	9	194	129	160	422	384	50,8	965-130H	963-130H
HFD 1T-4M	1500	500	9	194	129	160	422	384	50,8	965-130H	963-130H
HFD 3T-3M	3000	1000	10	194	129	160	457	413	58	965-132H	963-132H
HFD 6T-3M	6000	2000	15	194	129	160	518	467	68,3	965-132H	963-132H
HFD 10T-3M	12000	5000	20	194	129	160	584	521	82,5	965-133H	963-133H

1

2



3

Discover more details and matching accessories online!

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

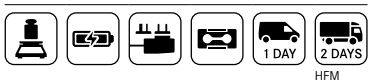
Features

- 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
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Adaptation of the readout to unstable environmental conditions at the push of a button (you can select between 3 levels)
- 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
- 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, 12 V, Typ 23A

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 integrated, as standard, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2% of [Max]
- Weighing units: kg
- Permissible ambient temperature 0 °C/40 °C

STANDARD



HFM 10T1

OPTION

Model	Weighing capacity [Max]	Readability	Net weight	3 Dimensions							Options
											Calibr. Certificate
KERN	kg	[d] g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	DAkkS accr. KERN
HFM 1T0.1	1000	100	14	270	200	175	610	540	68	40	963-130H
HFM 3T0.5	3000	500	16	270	200	175	610	540	74	40	963-132H
HFM 5T0.5	5000	500	18	300	230	190	730	650	74	55	963-132H
HFM 10T1	10000	1000	34	300	230	190	840	750	92	60	963-133H