





# PALLET TRUCK SCALES

PROFESSIONAL  
MEASURING



**2018**

# KERN Pictograms

 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 <b>GLP/ISO log:</b> The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers, see page 154/155	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Rechargeable battery pack:</b> Rechargeable set
 <b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 191	 <b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 <b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, USA or AUS version available
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 <b>Recipe level C:</b> 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	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	 <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
 <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)	 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
 <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Weighing units:</b> 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	 <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Weighing with tolerance range:</b> (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	 <b>Weighing principle: Single cell technology</b> Advanced version of the force compensation principle with the highest level of precision
 <b>Interface for second balance:</b> For direct connection of a second balance	 <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 <b>Verification possible:</b> The time required for verification is specified in the pictogram
 <b>Network interface:</b> For connecting the scale to an Ethernet network	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram. For details see page 58	 <b>DAkkS calibration possible (DKD):</b> The time required for DAkkS calibration is shown in days in the pictogram
 <b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module	 <b>Stainless steel:</b> The balance is protected against corrosion	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram
 <b>KERN Communication Protocol (KCP):</b> 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	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram	

# 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, 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 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 170 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/EEC

### versatile

- One-stop shopping: from pocket balances through to 15 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](http://www.kern-sohn.com)



### Order hotline

+49 [0] 7433 9933-0



### Service hotline

+49 [0] 7433 9933-199



### Calibration hotline

+49 [0] 7433 9933-196



### Our team of consultants will assist you

from Monday to Friday  
from 8:00 am to 6:00 pm



### Online Shop

[www.kern-sohn.com](http://www.kern-sohn.com)



### E-mail order

[info@kern-sohn.com](mailto:info@kern-sohn.com)



### Fax order

+49 [0] 7433 9933-146



### [www.kern-sohn.com](http://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.

## Pallet truck scales

### Weighing and transporting – just one operation

Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN offers a carefully coordinated range from the affordable entry level model to the comfort model with printer and removable battery pack.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.

Of course, all KERN pallet truck scales can also be calibrated and delivered with a DAkkS calibration certificate (DKD) (optional). This ensures the high level of accuracy of your pallet truck scale.

### Quick-Finder Pallet truck scales

Read-out [d] kg	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page	DAYS	CAL EXT	SUM	IP	BATT	ACCU	For an explanation on the pictos, see the front flap							
1	2000	VFB 2T-3	1430,-	137	2	●	●	●		●								
1	2000	VHB 2T1	1350,-	138	2	●	●	●		●								
5	2000	VHE 2T5A	990,-	136	2	●		●		●								

● = Standard ○ = Option

**HIGH-LIGHT**

only €

**990,-**

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- ▶ The power pack in the dispatch department and the warehouse
- ▶ The display device is well-protected by a metal frame
- ▶ Optimised load rollers so that you can get over rough ground more easily and greater manoeuvrability

**Fabienne Kolbus**  
Product specialist  
Pallet truck scales

Tel. +49 [0] 7433 9933-305  
Fax +49 [0] 7433 9933-29305  
fabienne.kolbus@kern-sohn.com



**KERN VHE-A**





## Entry-level model into mobile weighing

### Features

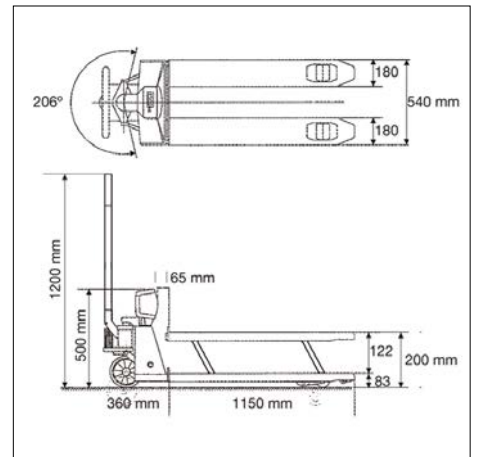
- **Highly versatile for general checkweighing**, e.g. plausibility check at goods receiving, determining shipping weights, avoiding overloads, safety checks
- **Very manoeuvrable** thanks to its compact construction and low weight
- **Particularly robust** with its components having been relocated from the load fork into the protected housing area. It is therefore also ideal for heavy applications in the production area and on board lorries
- **Display device:** plastic, protection against dust and water splashes IP65
- **Low height of the loading forks** easy uplifting to work with low pallets
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Polyurethane

### Operation:

- 1 Switch on and then pump up the load fork to the reference height
  - 2 Tare off
  - 3 Release the load fork and load the goods to be weighed
  - 4 Weighing: Pump the load fork with the goods to be weighed up to the reference height, read off the weight
- **Ready for use:** Batteries included, 2×1.5 V AA, operating time up to 100 h, AUTO-OFF function to preserve the battery

### Technical data

- Large LCD display, digit height 18 mm
- Permissible ambient temperature -10 °C/40 °C

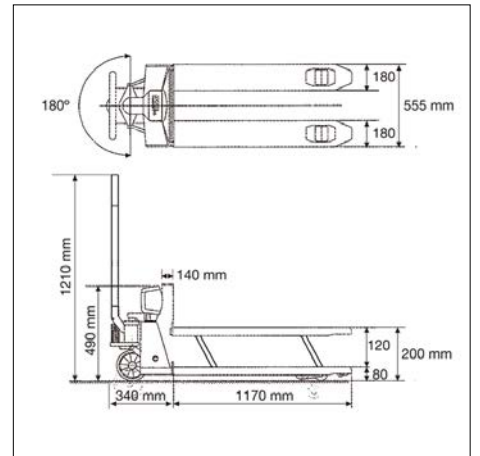


Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD					OPTION	
CAL EXT	IP 65	BATT	DMS	2 DAYS	DAKkS	+3 DAYS

Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Option	
					DAKkS Calibr. Certificate	€
KERN	[Max] kg	[d] kg	approx. kg		DKD KERN	€
VHE 2T5A	2000	5	65	<b>990,-</b>	963-131	220,-

Price reduction



## Pallet truck scale with totalising function for weights and integrated rechargeable battery pack

### Features

- **PRE-TARE function** for manual deduction of a known container weight (e.g. pallet, mesh crate etc.)
- **1 Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- **3 Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily
- **Check the weighing range which is in use** at the press of a button (net/gross weight)
- **Totalising** of weights
- Rechargeable battery pack internal, operating time up to 40 h without backlight, charging time approx. 12 h

### Technical data

- **2** Backlit LCD display, digit height 22 mm
- Permissible ambient temperature -10 °C/40 °C

### Accessories

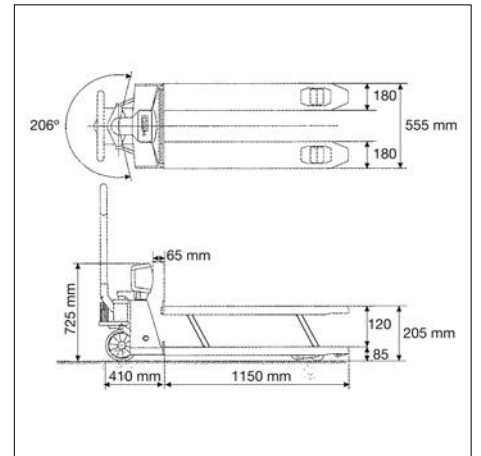
- **Protective working cover** over the display device, scope of delivery: 5 items, KERN VFB-A01S05

**Note:** As standard, the unit is dispatched without the sha and display fitted. The sha and display can be fitted at our factory for an additional cost, delivery + 2 working days, KERN VFS-M01  
Please state when ordering.

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

STANDARD							OPTION	
							only with VFS-M01	

Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Option	
					DAKKS Calibr. Certificate	€
KERN VFB 2T-3	[Max] kg 2000	[d] kg 1	approx. kg 110	<b>1430,-</b>	DKD KERN 963-131	€ 220,-



Pallet truck scale with complete protection against dust and water splashes IP65/67 and a memory for a container weight

**Features**

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **1 Display device:** plastic, protection against dust and water splashes IP65
- **2 Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **3 Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily
- **Totalising** of weights
- **Ready for use:** Batteries included, 4x1.5 V AA, operating time up to 80 h

**Technical data**

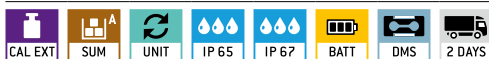
- Large LCD display, digit height 28 mm
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- Castors made of red polyurethane on aluminium rims. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale ranges KERN VHB, KERN VHS (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02

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

STANDARD



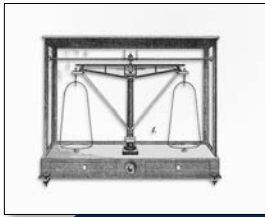
OPTION



Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Option	
					DAkkS KERN	Calibr. Certificate €
VHB 2T1	[Max] kg 2000	[d] kg 1	approx. kg 110	<b>1350,-</b>	963-131	220,-

# 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.



**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](http://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

**KERN & SOHN GmbH**  
**Balances, Test weights,**  
**DAkKS Calibration laboratory**  
Ziegelei 1  
72336 Balingen  
Germany

Tel. +49 [0] 7433 9933-0  
Fax +49 [0] 7433 9933-149

[info@kern-sohn.com](mailto:info@kern-sohn.com)  
[www.kern-sohn.com](http://www.kern-sohn.com)

