

TEST WEIGHTS

PROFESSIONAL MEASURING



KERN Pictograms

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

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

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

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

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

 **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 Data interface**
To connect the balance to a printer, PC or network

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

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

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

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

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

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

 **Network interface**
For connecting the scale to an Ethernet network

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

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

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

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

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

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

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

 **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

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

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

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

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

 **Rechargeable battery pack**
Rechargeable set

 **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

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

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

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

 **Weighing principle Tuning fork**
A resonating body is electromagnetically excited, causing it to oscillate

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

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

 **Conformity Assessment**
The time required for conformity assessment is specified in the pictogram

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

 **Factory calibration (ISO)**
The time required for Factory calibration is shown in days in the pictogram

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

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

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KERN Quick-Finder

How I quickly find the product I am looking for

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

And it's as simple as that – find the product you want in 2 steps:

1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder

Just lean back – we have just the right test weight for your measuring device

KERN offers you a large range of OIML test weights, which you can use at any time to quickly and reliably check your measuring instrument. From milligram weights to tonne weights, from the classic OIML design to special weights which are specifically manufactured to your specifications, we can offer you just the right test weight, and naturally the weights have the relevant DAkkS calibration certificate or factory calibration certificate.

On the following pages you will see a selection of standard test weights for OIML error limit classes E1, E2, F1, F2, M1, M2, M3. We will be happy to manufacture special (large) weights, weight containers, Newton weights or weights with special weight values for you on request. Our test weights product specialist will be happy to give you expert, comprehensive advice.

Note: In our webshop you can conveniently select test weights for your scale that have been calculated and matched to your safety requirements and intended use – with or without calibration. We will be happy to determine the minimum sample quantity according to USP Chapter <41> and recommend a KERN Safety Set especially designed for your scale.



PREMIUM⁺ TEST WEIGHTS

Note: Our highly-accurate OIML test weights are also available as **PREMIUM⁺ test weights** for that extra level of safety. Thanks to the most modern manufacturing technology, these test weights can also be adjusted within the specified error limit classes (= tolerances).

I.e. this means that these **PREMIUM⁺ test weights** have a significantly longer service life, thanks this guaranteed positive tolerance. This is of particular benefit with intensive use of the test weights.

For all the details on this **PREMIUM⁺ service** please see www.kern-lab.com/premium+ or look at the weight you want in our online shop at www.kern-sohn.com

Marking – never lose track again!

With the large variety of test equipment used then it is essential that they are identified accurately. We can help you with this and mark your test weights according to your ideas by etching or with impact numbers. Whether it's letters, numbers, your logo, barcodes or something else – it's your choice. Our product specialist "Test weights" will gladly help you with any questions about this service, prices, etc.





KERN SAFETY SETS

All the security you need!

KERN Safety Sets which have been specially developed, put together and contain the right test weights to test and monitor your balance. They each consist of a test weight for checking the sensitivity, i.e. the correct adjustment of your scale, and another lighter test weight for checking at the lower end of the weighing range, the so-called minimum sample weight. As an option, the KERN Safety Set has space for another test weight, for testing your balance at a weight which is relevant for you.

Useful accessories which have been selected to suit that particular KERN Safety Set, such as, for example, special gloves, tweezers, weight grips, brushes, etc., will assist you in handling your test weights properly. Stored in the practical protective case next to your balance, you can check and ensure the precision of your balance at any time.

Just ask our test weight product specialist, they will be happy to recommend the right KERN Safety Set for your balance. You can also find the matching KERN Safety Set for each model on the Internet at www.kern-sohn.com



Product Specialist
Test Weights
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Our KERN weight cases at a glance:

Plastic box
for individual weights

Aluminium protected box
for individual weights

Wooden box, lined / unlined
for individual weights

Plastic case
for weight sets

Aluminium protected case
for weight sets

Wooden case, lined / unlined
for weight sets

It's your choice!
To protect your test weights we can offer you an appropriate weight case. If there are no legal or normative specifications, then you have the choice between plastic, aluminium protected or wood. The available weight cases are shown as a symbol in the test weight tables on the following pages. This way you have all the materials, versions, sizes and prices at a glance, listed in a concise way.

It's so easy to order your suitable test weight

1 → **2** → **3** → **4**

According to your safety requirements or the specifications of your QM system, you select the test weight with the appropriate weight value and the required tolerance (see page 195/196).

We offer many test weights in different designs, giving you complete freedom to decide which test weights you want to use for your application. It goes without saying that all our test weights comply with the OIML R111:2004 directive.

To protect your high-quality test equipment, we offer you cases in various designs. From low-priced plastic weight cases to aluminium protected weight cases to classic, high-quality wooden weight cases.

A DAkkS calibration certificate – the auditor's favourite! With this certificate you provide the standard-compliant proof of all important values of your test equipment and are on the safe side when operating and testing your measuring equipment.

| 1 | | 2 | | 3 | | | 4 | |
|--------|------------|-----------------------------------|--------------------------------|-----------------|-------------------------|------------------|-----------------------|------|
| Weight | Tol +/- mg | Individual weights, compact shape | Individual weights, knob shape | Plastic box | Aluminium protected box | Wooden box | DAkkS certificate box | |
| | | KERN | KERN | KERN | KERN | KERN | KERN | KERN |
| 1 g | 0,03 | 316-01 36,- | 317-01 52,- | 317-020-400 4,- | 317-010-600 14,- | 317-010-100 26,- | 962-331 | 30,- |
| 2 g | 0,04 | 316-02 36,- | 317-02 53,- | 317-020-400 4,- | 317-020-600 14,- | 317-020-100 26,- | 962-332 | 30,- |
| 5 g | 0,05 | 316-03 37,- | 317-03 56,- | 317-030-400 4,- | 317-030-600 14,- | 317-030-100 26,- | 962-333 | 30,- |
| 10 g | 0,06 | 316-04 38,- | 317-04 60,- | 317-040-400 4,- | 317-040-600 14,- | | | 30,- |
| 20 g | 0,08 | 316-05 43,- | 317-05 68,- | 317-050-400 4,- | | | | |
| | | 316-06 46,- | 317-06 73,- | 317-060-400 4,- | | | | |

| 1 | 2 | 3 | 4 |
|---------------|----------------------------|--|---------------------------|
| Weight | Knob shape in plastic case | Knob shape in aluminium protected case | Knob shape in wooden case |
| | KERN | KERN | KERN |
| 1 mg - 500 mg | 338-22 143,- | 338-226 183,- | 962-450 110,- |
| 1 mg - 50 g | 333-024 345,- | 333-026 365,- | 333-02 370,- |
| 1 mg - 100 g | 333-034 385,- | 333-036 400,- | 333-03 405,- |
| 1 mg - 200 g | 333-044 450,- | 333-046 465,- | 333-04 470,- |
| 1 mg - 500 g | 333-054 510,- | 333-056 530,- | 333-05 540,- |
| 1 mg - 1 kg | 333-064 630,- | 333-066 650,- | 333-06 660,- |
| 1 mg - 2 kg | 333-074 890,- | 333-076 910,- | 333-07 920,- |

Selection of the appropriate test weight for your balance

A balance can never be more accurate than the test weight that is used to adjust it, it all depends on its tolerance. **The accuracy of the test weight should correspond to the readout [d] of the balance, or rather be more precise.**

Nominal weight value is shown in adjust mode "CAL" in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances "Tol" of the individual accuracy classes E2 - M3, see column "Tol ± mg" at the respective weight and table at page 196.

Example:

Balance with weighing range [Max] 2000 g = 2 kg
and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d]: max. tolerance ± 10 mg.
- Displayed weight size on "CAL" mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- Suitable test weights with ± 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 326-12 or KERN-No 327-12, see page 203.

Exception: analytical balances (readout [d] ≤ 0,1 mg):
E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DAkkS calibration certificate will also be sufficient.

From finely turned to polished stainless steel – the right test weight for every situation

| Test weight |  |  |  |  |  |
|--|--|--|---|--|--|
| Features | → Knob shape with lifting knob, polished stainless steel | Compact shape with carrying grip, polished stainless steel | Knob shape with lifting knob, polished stainless steel | ECO shape, polished stainless steel | Knob shape with lifting knob, finely turned stainless steel |
| Conforms to OIML:R111 | yes | yes | yes | yes | yes |
| Available classes | E1, E2 | E2 | F1 | F1 | F2, M1 |
| Upper surface | polished | polished | polished | polished | finely turned |
| Material | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Adjusting cavity | no | no | yes | yes, from 50 g, readjustment can only be carried out by KERN | yes, from 20 g |
| Marking (Milligram weights, generally none) | none | none | Nominal value, etched | Nominal value, etched | F2: Class + nominal value, etched; M1: Class + nominal value, adopted |
| Verification possible | yes (E2) | yes | yes | no | yes (M1) |
| Checking equipment for verification purposes | approved (E2) | approved | approved | approved | approved (M1) |
| Ideal as checking equipment in QM systems (e.g. ISO 9000 ff) | yes | yes | yes | yes | yes |
| Benefits | <ul style="list-style-type: none"> • High-quality test weight for analytical and precision balances • Highly-refined surface • Ideal shape of the top for good grip | <ul style="list-style-type: none"> • Affordable test weight for analytical and precision balances • Highly refined surface | <ul style="list-style-type: none"> • Ideal, high-quality test weight for precision balances • No visible adjustment chamber • High long-term stability • Ideal shape of the top for good grip | <ul style="list-style-type: none"> • Affordable test weight for analytical and precision balances • Highly refined surface • Optimum shape of the top for good grip | <ul style="list-style-type: none"> • Ideal test weight for commercial and industrial scales • Ideal shape of the top for good grip |

Composition table, valid for all KERN test weight sets from 1 mg

| Individual weights per set | 1 | 2 | 2 | 5 | 10 | 20 | 20 | 50 | 100 | 200 | 200 | 500 | 1 | 2 | 2 | 5 | 10 | | | | | |
|----------------------------|-----------------|-------|---|---|----|----|----|----|-----|-----|-----|-----|---|-------|---|---|----|----|-------|--|--|--|
| | mg | | | | | | | | | | | | g | | | | | kg | | | | |
| 1 mg–500 mg | ∑ = 1,11 g | ----- | | | | | | | | | | | | | | | | | | | | |
| 1 mg–50 g | ∑ = 111,11 g | ----- | | | | | | | | | | | | ----- | | | | | | | | |
| 1 mg–100 g | ∑ = 211,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |
| 1 mg–200 g | ∑ = 611,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |
| 1 mg–500 g | ∑ = 1.111,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |
| 1 mg–1 kg | ∑ = 2.111,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |
| 1 mg–2 kg | ∑ = 6.111,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |
| 1 mg–5 kg | ∑ = 11.111,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |
| 1 mg–10 kg | ∑ = 21.111,11 g | ----- | | | | | | | | | | | | ----- | | | | | ----- | | | |

The key points from the OIML norm R111:2004

OIML (Organisation Internationale de Métrologie Légale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world.

The OIML guideline R111 (2004 Edition) for weights relates to sizes 1 mg – 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3

The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)

The values given in the table below (tolerances ± ... mg) are the respective permitted fabrication tolerances.

They are to be equal to the

- ▶ **measuring uncertainty** of the weight, if no
- ▶ **DAkkS calibration certificate** is available.

Conventional mass

The problem is the air buoyancy, which makes the weight appear lighter. In order to avoid this “distortion” in daily use, all weights are adjusted to the unit specifications as given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20 °C.

KERN test weights:

Unless otherwise specified, they conform to OIML R111:2004 in every detail.

▶ *See the Glossary*

Nominal value OIML R111:2004 Maximum permissible errors for weights = permissible tolerances “Tol ± mg”

| ↓ | E1 | E2 | F1 | F2 | M1 | M2 | M3 |
|----------|------------|------------|------------|------------|------------|------------|------------|
| 1 mg | ± 0,003 mg | ± 0,006 mg | ± 0,020 mg | ± 0,06 mg | ± 0,20 mg | - | - |
| 2 mg | ± 0,003 mg | ± 0,006 mg | ± 0,020 mg | ± 0,06 mg | ± 0,20 mg | - | - |
| 5 mg | ± 0,003 mg | ± 0,006 mg | ± 0,020 mg | ± 0,06 mg | ± 0,20 mg | - | - |
| 10 mg | ± 0,003 mg | ± 0,008 mg | ± 0,025 mg | ± 0,08 mg | ± 0,25 mg | - | - |
| 20 mg | ± 0,003 mg | ± 0,010 mg | ± 0,03 mg | ± 0,10 mg | ± 0,3 mg | - | - |
| 50 mg | ± 0,004 mg | ± 0,012 mg | ± 0,04 mg | ± 0,12 mg | ± 0,4 mg | - | - |
| 100 mg | ± 0,005 mg | ± 0,016 mg | ± 0,05 mg | ± 0,16 mg | ± 0,5 mg | ± 1,6 mg | - |
| 200 mg | ± 0,006 mg | ± 0,020 mg | ± 0,06 mg | ± 0,20 mg | ± 0,6 mg | ± 2,0 mg | - |
| 500 mg | ± 0,008 mg | ± 0,025 mg | ± 0,08 mg | ± 0,25 mg | ± 0,8 mg | ± 2,5 mg | - |
| 1 g | ± 0,010 mg | ± 0,03 mg | ± 0,10 mg | ± 0,3 mg | ± 1,0 mg | ± 3,0 mg | ± 10 mg |
| 2 g | ± 0,012 mg | ± 0,04 mg | ± 0,12 mg | ± 0,4 mg | ± 1,2 mg | ± 4,0 mg | ± 12 mg |
| 5 g | ± 0,016 mg | ± 0,05 mg | ± 0,16 mg | ± 0,5 mg | ± 1,6 mg | ± 5,0 mg | ± 16 mg |
| 10 g | ± 0,020 mg | ± 0,06 mg | ± 0,20 mg | ± 0,6 mg | ± 2,0 mg | ± 6,0 mg | ± 20 mg |
| 20 g | ± 0,025 mg | ± 0,08 mg | ± 0,25 mg | ± 0,8 mg | ± 2,5 mg | ± 8,0 mg | ± 25 mg |
| 50 g | ± 0,03 mg | ± 0,10 mg | ± 0,3 mg | ± 1,0 mg | ± 3,0 mg | ± 10 mg | ± 30 mg |
| 100 g | ± 0,05 mg | ± 0,16 mg | ± 0,5 mg | ± 1,6 mg | ± 5,0 mg | ± 16 mg | ± 50 mg |
| 200 g | ± 0,10 mg | ± 0,3 mg | ± 1,0 mg | ± 3,0 mg | ± 10 mg | ± 30 mg | ± 100 mg |
| 500 g | ± 0,25 mg | ± 0,8 mg | ± 2,5 mg | ± 8,0 mg | ± 25 mg | ± 80 mg | ± 250 mg |
| 1 kg | ± 0,5 mg | ± 1,6 mg | ± 5,0 mg | ± 16 mg | ± 50 mg | ± 160 mg | ± 500 mg |
| 2 kg | ± 1,0 mg | ± 3,0 mg | ± 10 mg | ± 30 mg | ± 100 mg | ± 300 mg | ± 1 000 mg |
| 5 kg | ± 2,5 mg | ± 8,0 mg | ± 25 mg | ± 80 mg | ± 250 mg | ± 800 mg | ± 2 500 mg |
| 10 kg | ± 5,0 mg | ± 16 mg | ± 50 mg | ± 160 mg | ± 500 mg | ± 1 600 mg | ± 5 000 mg |
| 20 kg | ± 10 mg | ± 30 mg | ± 100 mg | ± 300 mg | ± 1 000 mg | ± 3 000 mg | ± 10 g |
| 50 kg | ± 25 mg | ± 80 mg | ± 250 mg | ± 800 mg | ± 2 500 mg | ± 8 000 mg | ± 25 g |
| 100 kg | - | ± 160 mg | ± 500 mg | ± 1 600 mg | ± 5 000 mg | ± 16 g | ± 50 g |
| 200 kg | - | ± 300 mg | ± 1 000 mg | ± 3 000 mg | ± 10 g | ± 30 g | ± 100 g |
| 500 kg | - | ± 800 mg | ± 2 500 mg | ± 8 000 mg | ± 25 g | ± 80 g | ± 250 g |
| 1 000 kg | - | ± 1 600 mg | ± 5 000 mg | ± 16 g | ± 50 g | ± 160 g | ± 500 g |
| 2 000 kg | - | - | ± 10 g | ± 30 g | ± 100 g | ± 300 g | ± 1 000 g |
| 5 000 kg | - | - | ± 25 g | ± 80 g | ± 250 g | ± 800 g | ± 2 500 g |

Test Weights and Boxes

Class E1



Milligram weights, wire shape

Individual weights, knob shape

Wooden box, for milligram weights



Plastic box, lined,
for individual
weights ≤ 50 g

Plastic box, lined,
for individual
weights ≥ 100 g

Wooden box, lined,
for individual weights ≤ 500 g

Wooden box, lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(308-42)

Milligram weight
set in aluminium
protected case,
lined (308-426)

Plastic case, lined, for weight sets,
compact shape/knob shape

Aluminium protected case, lined,
for weight sets, knob shape

Wooden case, lined,
for weight sets, knob shape



Class E1 - Milligram weights, wire shape

Test weight material: stainless steel

| Weight | Tol +/- mg | Milligram weight, wire shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|------------------------------|-------|-------------|-----|-------------------------|------|-------------|------|-------------------|------|
| | | KERN | € | KERN | € | KERN | € | KERN | € | KERN | € |
| 1 mg | 0,003 | 308-31 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-251 | 67,- |
| 2 mg | 0,003 | 308-32 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-252 | 67,- |
| 5 mg | 0,003 | 308-33 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-253 | 67,- |
| 10 mg | 0,003 | 308-34 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-254 | 67,- |
| 20 mg | 0,003 | 308-35 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-255 | 67,- |
| 50 mg | 0,004 | 308-36 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-256 | 67,- |
| 100 mg | 0,005 | 308-37 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-257 | 67,- |
| 200 mg | 0,006 | 308-38 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-258 | 67,- |
| 500 mg | 0,008 | 308-39 | 101,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-259 | 67,- |

Class E1 - Individual weights, knob shape

Test weight material: stainless steel polished

| Weight | Tol +/- mg | Individual weight, knob shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate Initial calibration* | | DAkkS certificate Recalibration | |
|--------|------------|-------------------------------|--------|-------------|------|-------------------------|-------|-------------|-------|--|--------|---------------------------------|-------|
| | | KERN | € | KERN | € | KERN | € | KERN | € | KERN | € | KERN | € |
| 1 g | 0,010 | 307-01 | 104,- | 317-020-400 | 4,80 | 317-010-600 | 14,- | 317-010-100 | 30,- | 963-231 | 245,- | 962-231 R | 77,- |
| 2 g | 0,012 | 307-02 | 111,- | 317-020-400 | 4,80 | 317-020-600 | 17,- | 317-020-100 | 30,- | 963-232 | 245,- | 962-232 R | 77,- |
| 5 g | 0,016 | 307-03 | 119,- | 317-030-400 | 4,80 | 317-030-600 | 15,- | 317-030-100 | 32,- | 963-233 | 245,- | 962-233 R | 77,- |
| 10 g | 0,020 | 307-04 | 128,- | 317-040-400 | 4,80 | 317-040-600 | 15,- | 317-040-100 | 30,- | 963-234 | 245,- | 962-234 R | 77,- |
| 20 g | 0,025 | 307-05 | 135,- | 317-050-400 | 4,80 | 317-050-600 | 15,- | 317-050-100 | 31,- | 963-335 | 245,- | 962-235 R | 77,- |
| 50 g | 0,030 | 307-06 | 155,- | 317-060-400 | 6,10 | 317-060-600 | 14,- | 317-060-100 | 32,- | 963-236 | 245,- | 962-236 R | 77,- |
| 100 g | 0,050 | 307-07 | 200,- | 317-070-400 | 8,- | 317-070-600 | 14,- | 317-070-100 | 35,- | 963-237 | 245,- | 962-237 R | 77,- |
| 200 g | 0,100 | 307-08 | 245,- | 317-080-400 | 7,70 | 317-080-600 | 14,- | 317-080-100 | 36,- | 963-238 | 245,- | 962-238 R | 77,- |
| 500 g | 0,250 | 307-09 | 325,- | 317-090-400 | 8,60 | 317-090-600 | 19,- | 317-090-100 | 46,- | 963-239 | 245,- | 962-239 R | 77,- |
| 1 kg | 0,500 | 307-11 | 510,- | 317-110-400 | 10,- | 317-110-600 | 27,- | 317-110-100 | 68,- | 963-241 | 245,- | 962-241 R | 77,- |
| 2 kg | 1,000 | 307-12 | 720,- | 317-120-400 | 13,- | 317-120-600 | 32,- | 317-120-100 | 69,- | 963-242 | 550,- | 962-242 R | 95,- |
| 5 kg | 2,500 | 307-13 | 1210,- | 317-130-400 | 27,- | 317-130-600 | 53,- | 317-130-100 | 101,- | 963-243 | 550,- | 962-243 R | 95,- |
| 10 kg | 5,000 | 307-14 | 1910,- | 317-140-400 | 25,- | 317-140-600 | 75,- | 317-140-100 | 122,- | 963-244 | 550,- | 962-244 R | 95,- |
| 20 kg | 10,000 | 307-15 | 4280,- | - | - | 317-150-600 | 105,- | 317-150-100 | 630,- | 963-245 | 1280,- | 962-245 R | 720,- |
| 50 kg | 25,000 | 307-16 | 8190,- | - | - | 317-160-600 | 305,- | 317-160-100 | 880,- | 963-246 | 1500,- | 962-246 R | 800,- |

* For E1 weights > 1g at the point of DAkkS initial calibration, a volume determination will be carried out in accordance with OIML:R111. When recalibrating according to DAkkS, this is not required.

Class E1 - Weight sets, knob shape

Test weight material: stainless steel polished

| Weight set | Knob shape in plastic case | | Knob shape in aluminium protected case | | Knob shape in wooden case | | DAkkS certificate Initial calibration* | | DAkkS certificate Recalibration | |
|---------------|----------------------------|--------|--|--------|---------------------------|--------|--|--------|---------------------------------|--------|
| | KERN | € | KERN | € | KERN | € | KERN | € | KERN | € |
| 1 mg - 500 mg | 308-42 | 1200,- | 308-426 | 1200,- | | | 962-250 | 435,- | 962-250 R | 465,- |
| 1 mg - 50 g | 303-024 | 1860,- | 303-026 | 1760,- | 303-02 | 1890,- | 963-201 | 1400,- | 962-201 R | 820,- |
| 1 mg - 100 g | 303-034 | 1950,- | 303-036 | 1910,- | 303-03 | 1960,- | 963-202 | 1520,- | 962-202 R | 850,- |
| 1 mg - 200 g | 303-044 | 2250,- | 303-046 | 2270,- | 303-04 | 2300,- | 963-203 | 1750,- | 962-203 R | 930,- |
| 1 mg - 500 g | 303-054 | 2590,- | 303-056 | 2610,- | 303-05 | 2650,- | 963-204 | 1860,- | 962-204 R | 970,- |
| 1 mg - 1 kg | 303-064 | 3240,- | 303-066 | 3340,- | 303-06 | 3200,- | 963-205 | 1980,- | 962-205 R | 1050,- |
| 1 mg - 2 kg | 303-074 | 4590,- | 303-076 | 4570,- | 303-07 | 4680,- | 963-206 | 2580,- | 962-206 R | 1110,- |
| 1 mg - 5 kg | 303-084 | 5850,- | 303-086 | 5890,- | 303-08 | 6060,- | 963-207 | 2890,- | 962-207 R | 1160,- |
| 1 mg - 10 kg | - | - | 303-096 | 7920,- | 303-09 | 8070,- | 963-208 | 3290,- | 962-208 R | 1200,- |
| 1 g - 50 g | 304-024 | 940,- | 304-026 | 970,- | 304-02 | 1000,- | 963-215 | 1010,- | 962-215 R | 365,- |
| 1 g - 100 g | 304-034 | 1120,- | 304-036 | 1140,- | 304-03 | 1180,- | 963-216 | 1100,- | 962-216 R | 395,- |
| 1 g - 200 g | 304-044 | 1560,- | 304-046 | 1590,- | 304-04 | 1620,- | 963-217 | 1340,- | 962-217 R | 475,- |
| 1 g - 500 g | 304-054 | 1890,- | 304-056 | 1910,- | 304-05 | 1940,- | 963-218 | 1460,- | 962-218 R | 520,- |
| 1 g - 1 kg | 304-064 | 2320,- | 304-066 | 2340,- | 304-06 | 2400,- | 963-219 | 1600,- | 962-219 R | 560,- |
| 1 g - 2 kg | 304-074 | 3750,- | 304-076 | 3770,- | 304-07 | 3830,- | 963-220 | 2240,- | 962-220 R | 640,- |
| 1 g - 5 kg | 304-084 | 4900,- | 304-086 | 4920,- | 304-08 | 5030,- | 963-221 | 2620,- | 962-221 R | 660,- |
| 1 g - 10 kg | - | - | 304-096 | 6810,- | 304-09 | 6940,- | 963-222 | 3060,- | 962-222 R | 720,- |

Test Weights and Boxes

Class E2



Milligram weights, flat polygonal sheet



Individual weights, compact shape



Individual weights, knob shape



Plastic box, lined,
for individual
weights ≤ 50 g



Plastic box, lined,
for individual
weights ≥ 100 g



Aluminium protected box, lined,
for individual weights



Wooden box, lined,
for individual weights ≤ 500 g



Wooden box, lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(318-22)



Milligram weight
set in aluminium
protected case,
lined (318-226)



Plastic case, lined, for weight sets,
compact shape/knob shape



Aluminium protected case,
lined, for weight sets,
compact shape/knob shape



Wooden case, lined, for weight sets,
compact shape/knob shape

Class E2 - Milligram weights, flat polygonal sheet

Test weight material: stainless steel

| Weight | Tol +/- mg | Milligram weight, flat polygonal sheet | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|--|------|--|-----|--|------|--|------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 mg | 0,006 | 318-01 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-351 | 33,- |
| 2 mg | 0,006 | 318-02 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-352 | 33,- |
| 5 mg | 0,006 | 318-03 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-353 | 33,- |
| 10 mg | 0,008 | 318-04 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-354 | 33,- |
| 20 mg | 0,010 | 318-05 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-355 | 33,- |
| 50 mg | 0,012 | 318-06 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-356 | 33,- |
| 100 mg | 0,016 | 318-07 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-357 | 33,- |
| 200 mg | 0,020 | 318-08 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-358 | 33,- |
| 500 mg | 0,025 | 318-09 | 29,- | 347-009-400 | 3,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-359 | 33,- |

Class E2 - Individual weights, compact shape or knob shape

Test weight material: stainless steel polished

| Weight | Tol +/- mg | Individual weights, compact shape | | Individual weights, knob shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|-----------------------------------|-------|--------------------------------|--------|--|------|--|-------|--|-------|-------------------|------|
| | | KERN | € | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 g | 0,03 | 316-01 | 41,- | 317-01 | 59,- | 317-020-400 | 4,80 | 317-010-600 | 14,- | 317-010-100 | 30,- | 962-331 | 33,- |
| 2 g | 0,04 | 316-02 | 41,- | 317-02 | 60,- | 317-020-400 | 4,80 | 317-020-600 | 17,- | 317-020-100 | 30,- | 962-332 | 33,- |
| 5 g | 0,05 | 316-03 | 43,- | 317-03 | 63,- | 317-030-400 | 4,80 | 317-030-600 | 15,- | 317-030-100 | 32,- | 962-333 | 33,- |
| 10 g | 0,06 | 316-04 | 44,- | 317-04 | 67,- | 317-040-400 | 4,80 | 317-040-600 | 15,- | 317-040-100 | 30,- | 962-334 | 33,- |
| 20 g | 0,08 | 316-05 | 47,- | 317-05 | 76,- | 317-050-400 | 4,80 | 317-050-600 | 15,- | 317-050-100 | 31,- | 962-335 | 33,- |
| 50 g | 0,10 | 316-06 | 53,- | 317-06 | 80,- | 317-060-400 | 6,10 | 317-060-600 | 14,- | 317-060-100 | 32,- | 962-336 | 33,- |
| 100 g | 0,16 | 316-07 | 59,- | 317-07 | 88,- | 317-070-400 | 8,- | 317-070-600 | 14,- | 317-070-100 | 35,- | 962-337 | 41,- |
| 200 g | 0,30 | 316-08 | 69,- | 317-08 | 114,- | 317-080-400 | 7,70 | 317-080-600 | 14,- | 317-080-100 | 36,- | 962-338 | 41,- |
| 500 g | 0,80 | 316-09 | 103,- | 317-09 | 193,- | 317-090-400 | 8,60 | 317-090-600 | 19,- | 317-090-100 | 46,- | 962-339 | 41,- |
| 1 kg | 1,60 | 316-11 | 151,- | 317-11 | 285,- | 317-110-400 | 10,- | 317-110-600 | 27,- | 317-110-100 | 68,- | 962-341 | 41,- |
| 2 kg | 3,00 | 316-12 | 260,- | 317-12 | 440,- | 317-120-400 | 13,- | 317-120-600 | 32,- | 317-120-100 | 69,- | 962-342 | 50,- |
| 5 kg | 8,00 | 316-13 | 430,- | 317-13 | 630,- | 317-130-400 | 27,- | 317-130-600 | 53,- | 317-130-100 | 101,- | 962-343 | 50,- |
| 10 kg | 16,00 | 316-14 | 700,- | 317-14 | 940,- | 317-140-400 | 25,- | 317-140-600 | 75,- | 317-140-100 | 122,- | 962-344 | 50,- |
| 20 kg | 30,00 | - | - | 317-15 | 2330,- | - | - | 317-150-600 | 105,- | 317-150-100 | 630,- | 962-345 | 65,- |
| 50 kg | 80,00 | - | - | 317-16 | 4810,- | - | - | 317-160-600 | 305,- | 317-160-100 | 880,- | 962-346 | 75,- |

Class E2 - Weight sets, compact shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

| Weight sets | Compact shape in plastic case | | Compact shape in aluminium protected case | | DAkkS certificate | |
|-------------|--|--------|--|--------|-------------------|-------|
| | KERN  | € | KERN  | € | KERN | € |
| 1 g - 50 g | 312-024 | 465,- | 312-026 | 440,- | 962-315 | 152,- |
| 1 g - 100 g | 312-034 | 520,- | 312-036 | 500,- | 962-316 | 182,- |
| 1 g - 200 g | 312-044 | 650,- | 312-046 | 630,- | 962-317 | 240,- |
| 1 g - 500 g | 312-054 | 750,- | 312-056 | 730,- | 962-318 | 275,- |
| 1 g - 1 kg | 312-064 | 970,- | 312-066 | 970,- | 962-319 | 305,- |
| 1 g - 2 kg | 312-074 | 1350,- | 312-076 | 1400,- | 962-320 | 375,- |
| 1 g - 5 kg | 312-084 | 1790,- | 312-086 | 1870,- | 962-321 | 425,- |
| 1 g - 10 kg | - | - | 312-096 | 2510,- | 962-322 | 460,- |

Note

Our highly-accurate OIML test weights are also available as **PREMIUM+** weights for that extra level of safety. See all details page 194 or on www.kern-lab.com/premium+

Class E2 - Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

| Weight sets | Knob shape in plastic case | | Knob shape in aluminium protected case | | Knob shape in wooden case | | DAkkS certificate | |
|---------------|----------------------------|--------|--|--------|---------------------------|--------|-------------------|-------|
| | KERN | € | KERN | € | KERN | € | KERN | € |
| 1 mg - 500 mg | 318-22 | 370,- | 318-226 | 430,- | | | 962-350 | 225,- |
| 1 mg - 50 g | 313-024 | 930,- | 313-026 | 950,- | 313-02 | 970,- | 962-301 | 370,- |
| 1 mg - 100 g | 313-034 | 1010,- | 313-036 | 1030,- | 313-03 | 1060,- | 962-302 | 400,- |
| 1 mg - 200 g | 313-044 | 1220,- | 313-046 | 1250,- | 313-04 | 1270,- | 962-303 | 465,- |
| 1 mg - 500 g | 313-054 | 1360,- | 313-056 | 1390,- | 313-05 | 1480,- | 962-304 | 495,- |
| 1 mg - 1 kg | 313-064 | 1690,- | 313-066 | 1730,- | 313-06 | 1790,- | 962-305 | 520,- |
| 1 mg - 2 kg | 313-074 | 2560,- | 313-076 | 2620,- | 313-07 | 2650,- | 962-306 | 580,- |
| 1 mg - 5 kg | 313-084 | 3220,- | 313-086 | 3290,- | 313-08 | 3410,- | 962-307 | 620,- |
| 1 mg - 10 kg | - | - | 313-096 | 4400,- | 313-09 | 4500,- | 962-308 | 660,- |
| 1 g - 50 g | 314-024 | 610,- | 314-026 | 640,- | 314-02 | 650,- | 962-315 | 152,- |
| 1 g - 100 g | 314-034 | 680,- | 314-036 | 710,- | 314-03 | 740,- | 962-316 | 182,- |
| 1 g - 200 g | 314-044 | 870,- | 314-046 | 900,- | 314-04 | 940,- | 962-317 | 240,- |
| 1 g - 500 g | 314-054 | 1070,- | 314-056 | 1100,- | 314-05 | 1160,- | 962-318 | 275,- |
| 1 g - 1 kg | 314-064 | 1370,- | 314-066 | 1400,- | 314-06 | 1470,- | 962-319 | 305,- |
| 1 g - 2 kg | 314-074 | 2250,- | 314-076 | 2300,- | 314-07 | 2340,- | 962-320 | 375,- |
| 1 g - 5 kg | 314-084 | 2910,- | 314-086 | 2980,- | 314-08 | 3100,- | 962-321 | 425,- |
| 1 g - 10 kg | - | - | 314-096 | 4060,- | 314-09 | 4190,- | 962-322 | 460,- |

Note

Our highly-accurate OIML test weights are also available as **PREMIUM+** weights for that extra level of safety. See all details page 194 or on www.kern-lab.com/premium+

Test Weights and Boxes

Class F1



Milligram weights,
flat polygonal sheet



Individual weights/
Weight sets,
ECO shape



Individual weights/
Weight sets,
knob shape



Test weights (10 – 50 kg),
polished stainless steel,
KERN 327-141 ff, optional:
Wooden box



Block weight,
polished stainless steel



Plastic box, lined,
for individual
weights ≤ 200 g



Plastic box, lined,
for individual
weights ≥ 500 g



Aluminium protected box, lined,
for individual weights



Wooden box, lined,
for individual weights ≤ 500 g



Wooden box, lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(328-22)



Milligram weight
set in aluminium
protected case,
lined (328-226)



Plastic case, lined for weight sets,
ECO shape/knob shape



Aluminium protected case, lined,
for weight sets ECO shape/
knob shape



Wooden case, lined, for weight sets
ECO shape/knob shape

Class F1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

| Weight | Tol +/- mg | Milligram weight, flat polygonal sheet | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|--|------|--|-----|--|------|--|------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 mg | 0,020 | 328-01 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-451 | 21,- |
| 2 mg | 0,020 | 328-02 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-452 | 21,- |
| 5 mg | 0,020 | 328-03 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-453 | 21,- |
| 10 mg | 0,025 | 328-04 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-454 | 21,- |
| 20 mg | 0,03 | 328-05 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-455 | 21,- |
| 50 mg | 0,04 | 328-06 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-456 | 21,- |
| 100 mg | 0,05 | 328-07 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-457 | 21,- |
| 200 mg | 0,06 | 328-08 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-458 | 21,- |
| 500 mg | 0,08 | 328-09 | 15,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-459 | 21,- |

Class F1 · Individual weights, ECO shape or knob shape

Test weight material: stainless steel polished

| Weight | Tol +/- mg | Individual weight, ECO shape | | Individual weight, knob shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|------------------------------|-------|-------------------------------|--------|--|------|---|-------|--|-------|-------------------|------|
| | | KERN | € | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 g | 0,10 | 326-01 | 37,- | 327-01 | 39,- | 347-030-400 | 2,- | 317-010-600 | 14,- | 317-010-100 | 30,- | 962-431 | 21,- |
| 2 g | 0,12 | 326-02 | 37,- | 327-02 | 39,- | 347-030-400 | 2,- | 317-020-600 | 17,- | 317-020-100 | 30,- | 962-432 | 21,- |
| 5 g | 0,16 | 326-03 | 39,- | 327-03 | 40,- | 347-030-400 | 2,- | 317-030-600 | 15,- | 317-030-100 | 32,- | 962-433 | 21,- |
| 10 g | 0,20 | 326-04 | 40,- | 327-04 | 44,- | 347-050-400 | 2,- | 317-040-600 | 15,- | 317-040-100 | 30,- | 962-434 | 21,- |
| 20 g | 0,25 | 326-05 | 42,- | 327-05 | 50,- | 347-050-400 | 2,- | 317-050-600 | 15,- | 317-050-100 | 31,- | 962-435 | 21,- |
| 50 g | 0,30 | 326-06 | 51,- | 327-06 | 58,- | 347-070-400 | 2,- | 317-060-600 | 14,- | 317-060-100 | 32,- | 962-436 | 21,- |
| 100 g | 0,50 | 326-07 | 56,- | 327-07 | 63,- | 347-070-400 | 2,- | 317-070-600 | 14,- | 317-070-100 | 35,- | 962-437 | 23,- |
| 200 g | 1,00 | 326-08 | 62,- | 327-08 | 81,- | 347-080-400 | 2,10 | 317-080-600 | 14,- | 317-080-100 | 36,- | 962-438 | 23,- |
| 500 g | 2,50 | 326-09 | 98,- | 327-09 | 130,- | 347-090-400 | 3,- | 317-090-600 | 19,- | 317-090-100 | 46,- | 962-439 | 23,- |
| 1 kg | 5,00 | 326-11 | 130,- | 327-11 | 164,- | 347-110-400 | 3,80 | 317-110-600 | 27,- | 317-110-100 | 68,- | 962-441 | 23,- |
| 2 kg | 10 | 326-12 | 215,- | 327-12 | 255,- | 347-120-400 | 5,- | 317-120-600 | 32,- | 317-120-100 | 69,- | 962-442 | 30,- |
| 5 kg | 25 | 326-13 | 340,- | 327-13 | 405,- | 347-130-400 | 11,- | 317-130-600 | 53,- | 317-130-100 | 101,- | 962-443 | 30,- |
| 10 kg | 50 | 326-14 | 560,- | 327-14 | 740,- | 347-140-400 | 16,- | 317-140-600 | 75,- | 317-140-100 | 122,- | 962-444 | 30,- |
| 20 kg | 100 | - | - | 327-15 | 1830,- | - | - | 317-150-600 | 105,- | 317-150-100 | 630,- | 962-445 | 34,- |
| 50 kg | 250 | - | - | 327-16 | 3930,- | - | - | 317-160-600 | 305,- | 317-160-100 | 880,- | 962-446 | 46,- |

Class F1 · Block weights

Block weight material: stainless steel polished

| Weight | Tol +/- mg | Block weight | | Aluminium protected box | | DAkkS certificate | |
|--------|------------|--------------|--------|--|-------|-------------------|------|
| | | KERN | € | KERN  | € | KERN | € |
| 5 kg | 25 | 326-36 | 960,- | 346-060-600 | 80,- | 962-443 | 30,- |
| 10 kg | 50 | 326-37 | 1390,- | 346-070-600 | 104,- | 962-444 | 30,- |
| 20 kg | 100 | 326-38 | 1910,- | 346-080-600 | 152,- | 962-445 | 34,- |
| 50 kg | 250 | 326-39 | 4720,- | 346-090-600 | 171,- | 962-446 | 46,- |

Class F1 · Test weights, stackable

Test weight material: stainless steel polished

| Weight | Tol +/- mg | Test weight | | Wooden box | | DAkkS certificate | |
|--------|------------|-------------|--------|--|-------|-------------------|------|
| | | KERN | € | KERN  | € | KERN | € |
| 10 kg | 50 | 327-141 | 1370,- | 337-141-100 | 340,- | 962-444 | 30,- |
| 20 kg | 100 | 327-151 | 1700,- | 337-151-100 | 370,- | 962-445 | 34,- |
| 50 kg | 250 | 327-161 | 3880,- | 337-161-100 | 570,- | 962-446 | 46,- |

Class F1 - Weight sets, ECO shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

| Weight sets | ECO shape in plastic case | | ECO shape in aluminium protected case | | ECO shape in wooden case | | DAkkS certificate | |
|---------------|---------------------------|---|---------------------------------------|---|--------------------------|---|-------------------|--------------|
| | KERN |  € | KERN |  € | KERN |  € | KERN | € |
| 1 mg - 500 mg | 328-22 | 194,- | 328-226 | 255,- | - | - | 962-450 | 118,- |
| 1 mg - 50 g | 325-024 | 550,- | 325-026 | 560,- | 325-022 | 600,- | 962-401 | 197,- |
| 1 mg - 100 g | 325-034 | 600,- | 325-036 | 620,- | 325-032 | 650,- | 962-402 | 210,- |
| 1 mg - 200 g | 325-044 | 690,- | 325-046 | 710,- | 325-042 | 740,- | 962-403 | 235,- |
| 1 mg - 500 g | 325-054 | 790,- | 325-056 | 810,- | 325-052 | 910,- | 962-404 | 245,- |
| 1 mg - 1 kg | 325-064 | 1010,- | 325-066 | 1020,- | 325-062 | 1060,- | 962-405 | 255,- |
| 1 mg - 2 kg | 325-074 | 1300,- | 325-076 | 1320,- | 325-072 | 1370,- | 962-406 | 295,- |
| 1 mg - 5 kg | 325-084 | 1580,- | 325-086 | 1620,- | 325-082 | 1780,- | 962-407 | 310,- |
| 1 mg - 10 kg | - | - | 325-096 | 2340,- | 325-092 | 2390,- | 962-408 | 335,- |
| 1 g - 50 g | 326-024 | 375,- | 326-026 | 390,- | 326-022 | 440,- | 962-415 | 79,- |
| 1 g - 100 g | 326-034 | 420,- | 326-036 | 440,- | 326-032 | 490,- | 962-416 | 91,- |
| 1 g - 200 g | 326-044 | 520,- | 326-046 | 540,- | 326-042 | 600,- | 962-417 | 116,- |
| 1 g - 500 g | 326-054 | 610,- | 326-056 | 630,- | 326-052 | 750,- | 962-418 | 128,- |
| 1 g - 1 kg | 326-064 | 830,- | 326-066 | 850,- | 326-062 | 900,- | 962-419 | 141,- |
| 1 g - 2 kg | 326-074 | 1110,- | 326-076 | 1140,- | 326-072 | 1220,- | 962-420 | 177,- |
| 1 g - 5 kg | 326-084 | 1410,- | 326-086 | 1430,- | 326-082 | 1630,- | 962-421 | 196,- |
| 1 g - 10 kg | - | - | 326-096 | 2070,- | 326-092 | 2240,- | 962-422 | 215,- |

Class F1 - Weight sets, knob shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

| Weight sets | Knob shape in plastic case | | Knob shape in aluminium protected case | | Knob shape in wooden case | | DAkkS certificate | |
|---------------|----------------------------|---|--|---|---------------------------|---|-------------------|--------------|
| | KERN |  € | KERN |  € | KERN |  € | KERN | € |
| 1 mg - 500 mg | 328-22 | 194,- | 328-226 | 255,- | - | - | 962-450 | 118,- |
| 1 mg - 50 g | 323-024 | 610,- | 323-026 | 600,- | 323-02 | 640,- | 962-401 | 197,- |
| 1 mg - 100 g | 323-034 | 670,- | 323-036 | 660,- | 323-03 | 700,- | 962-402 | 210,- |
| 1 mg - 200 g | 323-044 | 820,- | 323-046 | 800,- | 323-04 | 880,- | 962-403 | 235,- |
| 1 mg - 500 g | 323-054 | 970,- | 323-056 | 940,- | 323-05 | 1090,- | 962-404 | 245,- |
| 1 mg - 1 kg | 323-064 | 1240,- | 323-066 | 1180,- | 323-06 | 1230,- | 962-405 | 255,- |
| 1 mg - 2 kg | 323-074 | 1640,- | 323-076 | 1590,- | 323-07 | 1730,- | 962-406 | 295,- |
| 1 mg - 5 kg | 323-084 | 2020,- | 323-086 | 1960,- | 323-08 | 2200,- | 962-407 | 310,- |
| 1 mg - 10 kg | - | - | 323-096 | 2790,- | 323-09 | 3040,- | 962-408 | 335,- |
| 1 g - 50 g | 324-024 | 430,- | 324-026 | 420,- | 324-02 | 480,- | 962-415 | 79,- |
| 1 g - 100 g | 324-034 | 490,- | 324-036 | 485,- | 324-03 | 560,- | 962-416 | 91,- |
| 1 g - 200 g | 324-044 | 650,- | 324-046 | 640,- | 324-04 | 720,- | 962-417 | 116,- |
| 1 g - 500 g | 324-054 | 780,- | 324-056 | 770,- | 324-05 | 880,- | 962-418 | 128,- |
| 1 g - 1 kg | 324-064 | 1060,- | 324-066 | 1020,- | 324-06 | 1070,- | 962-419 | 141,- |
| 1 g - 2 kg | 324-074 | 1460,- | 324-076 | 1420,- | 324-07 | 1570,- | 962-420 | 177,- |
| 1 g - 5 kg | 324-084 | 1840,- | 324-086 | 1840,- | 324-08 | 2040,- | 962-421 | 196,- |
| 1 g - 10 kg | - | - | 324-096 | 2650,- | 324-09 | 2870,- | 962-422 | 215,- |

Test Weights and Boxes

Class F2



Milligram weights,
flat polygonal sheet



Individual weights/Weight sets,
knob shape



Block weight, stainless steel



Test weights (10 – 50 kg), finely turned
stainless steel, KERN 337-141 ff,
optional: Wooden box



Plastic box,
lined, for
individual
weights
≤ 200 g



Plastic box,
lined, for
individual
weights
≥ 500 g



Aluminium protected box, lined,
for individual weights



Wooden box, not lined
for individual weights ≤ 500 g



Wooden box, not lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(338-22)



Milligram weight
set in aluminium
protected case,
lined (338-226)



Plastic case, lined, for weight sets,
knob shape



Aluminium protected case, lined,
for weight sets, knob shape



Wooden case, for weight sets,
knob shape

Class F2 - Milligram weights, flat polygonal sheet

Test weight material: stainless steel

| Weight | Tol +/- mg | Milligram weight, flat polygonal sheet | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|--|------|--|-----|--|------|--|------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 mg | 0,06 | 338-01 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-451 | 21,- |
| 2 mg | 0,06 | 338-02 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-452 | 21,- |
| 5 mg | 0,06 | 338-03 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-453 | 21,- |
| 10 mg | 0,08 | 338-04 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-454 | 21,- |
| 20 mg | 0,10 | 338-05 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-455 | 21,- |
| 50 mg | 0,12 | 338-06 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-456 | 21,- |
| 100 mg | 0,16 | 338-07 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-457 | 21,- |
| 200 mg | 0,20 | 338-08 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-458 | 21,- |
| 500 mg | 0,25 | 338-09 | 10,- | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-459 | 21,- |

Class F2 - Individual weights, knob shape

Test weight material: finely turned stainless steel

| Weight | Tol +/- mg | Individual weight, knob shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|-------------------------------|--------|--|------|--|-------|--|-------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 g | 0,3 | 337-01 | 23,- | 347-030-400 | 2,- | 317-010-600 | 14,- | 337-010-200 | 21,- | 962-431 | 21,- |
| 2 g | 0,4 | 337-02 | 24,- | 347-030-400 | 2,- | 317-020-600 | 17,- | 337-020-200 | 17,- | 962-432 | 21,- |
| 5 g | 0,5 | 337-03 | 26,- | 347-030-400 | 2,- | 317-030-600 | 15,- | 337-030-200 | 18,- | 962-433 | 21,- |
| 10 g | 0,6 | 337-04 | 28,- | 347-050-400 | 2,- | 317-040-600 | 15,- | 337-040-200 | 18,- | 962-434 | 21,- |
| 20 g | 0,8 | 337-05 | 29,- | 347-050-400 | 2,- | 317-050-600 | 15,- | 337-050-200 | 18,- | 962-435 | 21,- |
| 50 g | 1,0 | 337-06 | 32,- | 347-070-400 | 2,- | 317-060-600 | 14,- | 337-060-200 | 20,- | 962-436 | 21,- |
| 100 g | 1,6 | 337-07 | 36,- | 347-070-400 | 2,- | 317-070-600 | 14,- | 337-070-200 | 24,- | 962-437 | 23,- |
| 200 g | 3,0 | 337-08 | 48,- | 347-080-400 | 2,10 | 317-080-600 | 14,- | 337-080-200 | 25,- | 962-438 | 23,- |
| 500 g | 8,0 | 337-09 | 71,- | 347-090-400 | 3,- | 317-090-600 | 19,- | 337-090-200 | 29,- | 962-439 | 23,- |
| 1 kg | 16 | 337-11 | 93,- | 347-110-400 | 3,80 | 317-110-600 | 27,- | 337-110-200 | 43,- | 962-441 | 23,- |
| 2 kg | 30 | 337-12 | 147,- | 347-120-400 | 5,- | 317-120-600 | 32,- | 337-120-200 | 47,- | 962-442 | 30,- |
| 5 kg | 80 | 337-13 | 265,- | 347-130-400 | 11,- | 317-130-600 | 53,- | 337-130-200 | 92,- | 962-443 | 30,- |
| 10 kg | 160 | 337-14 | 510,- | 347-140-400 | 16,- | 317-140-600 | 75,- | 337-140-200 | 93,- | 962-444 | 30,- |
| 20 kg | 300 | 337-15 | 770,- | - | - | 317-150-600 | 105,- | 337-150-200 | 390,- | 962-445 | 34,- |
| 50 kg | 800 | 337-16 | 1520,- | - | - | 317-160-600 | 305,- | 337-160-200 | 610,- | 962-446 | 46,- |

Class F2 - Test weights, stackable

Test weight material: finely turned stainless steel

| Weight | Tol +/- mg | Test weight | | Wooden box | | DAkkS certificate | |
|--------|------------|-------------|--------|--|-------|-------------------|------|
| | | KERN | € | KERN  | € | KERN | € |
| 10 kg | 160 | 337-141 | 650,- | 337-141-200 | 360,- | 962-444 | 30,- |
| 20 kg | 300 | 337-151 | 830,- | 337-151-200 | 390,- | 962-445 | 34,- |
| 50 kg | 800 | 337-161 | 2130,- | 337-161-200 | 610,- | 962-446 | 46,- |

Class F2 - Block weights

Block weight material: stainless steel glass bead blasted

| Weight | Tol +/- mg | Block weight | | Aluminium protected box | | DAkkS certificate | |
|--------|------------|--------------|--------|--|-------|-------------------|------|
| | | KERN | € | KERN  | € | KERN | € |
| 5 kg | 80 | 336-36 | 550,- | 346-060-600 | 80,- | 962-443 | 30,- |
| 10 kg | 160 | 336-37 | 820,- | 346-070-600 | 104,- | 962-444 | 30,- |
| 20 kg | 300 | 336-38 | 1120,- | 346-080-600 | 152,- | 962-445 | 34,- |
| 50 kg | 800 | 336-39 | 2300,- | 346-090-600 | 171,- | 962-446 | 46,- |

Class F2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

| Weight | Knob shape in plastic case | | Knob shape in aluminium protected case | | Knob shape in wooden case | | DAkkS certificate | |
|---------------|--|--------|--|--------|--|--------|-------------------|-------|
| | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 mg - 500 mg | 338-22 | 159,- | 338-226 | 200,- | - | - | 962-450 | 118,- |
| 1 mg - 50 g | 333-024 | 390,- | 333-026 | 410,- | 333-02 | 410,- | 962-401 | 197,- |
| 1 mg - 100 g | 333-034 | 435,- | 333-036 | 450,- | 333-03 | 455,- | 962-402 | 210,- |
| 1 mg - 200 g | 333-044 | 510,- | 333-046 | 520,- | 333-04 | 520,- | 962-403 | 235,- |
| 1 mg - 500 g | 333-054 | 580,- | 333-056 | 600,- | 333-05 | 610,- | 962-404 | 245,- |
| 1 mg - 1 kg | 333-064 | 730,- | 333-066 | 750,- | 333-06 | 760,- | 962-405 | 255,- |
| 1 mg - 2 kg | 333-074 | 1030,- | 333-076 | 1050,- | 333-07 | 1060,- | 962-406 | 295,- |
| 1 mg - 5 kg | 333-084 | 1310,- | 333-086 | 1420,- | 333-08 | 1420,- | 962-407 | 310,- |
| 1 mg - 10 kg | - | - | 333-096 | 2060,- | 333-09 | 1980,- | 962-408 | 335,- |
| 1 g - 50 g | 334-024 | 255,- | 334-026 | 275,- | 334-02 | 270,- | 962-415 | 79,- |
| 1 g - 100 g | 334-034 | 300,- | 334-036 | 315,- | 334-03 | 320,- | 962-416 | 91,- |
| 1 g - 200 g | 334-044 | 395,- | 334-046 | 415,- | 334-04 | 415,- | 962-417 | 116,- |
| 1 g - 500 g | 334-054 | 470,- | 334-056 | 490,- | 334-05 | 490,- | 962-418 | 128,- |
| 1 g - 1 kg | 334-064 | 610,- | 334-066 | 620,- | 334-06 | 630,- | 962-419 | 141,- |
| 1 g - 2 kg | 334-074 | 890,- | 334-076 | 940,- | 334-07 | 940,- | 962-420 | 177,- |
| 1 g - 5 kg | 334-084 | 1150,- | 334-086 | 1300,- | 334-08 | 1290,- | 962-421 | 196,- |
| 1 g - 10 kg | - | - | 334-096 | 1750,- | 334-09 | 1810,- | 962-422 | 215,- |

Test Weights and Boxes

Class M1



Milligram weights, flat polygonal sheet



Individual weights/weight sets, knob shape, finely turned stainless steel



Hook weights, finely turned stainless steel



Slotted weights, finely turned stainless steel



Plastic box, for individual weights ≤ 200 g, for hook weights and slotted weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 500 g, for hook weights and slotted weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, not lined, for individual weights ≤ 500 g



Wooden box, not lined, for individual weights ≥ 1 kg



Milligram weight set in plastic case (348-22)



Milligram weight set in aluminium protected case, lined (348-226)



Plastic case, lined, for weight sets, knob shape, finely turned stainless steel



Aluminium protected case, lined, for weight sets, knob shape, finely turned stainless steel



Wooden case, for weight sets, knob shape, finely turned stainless steel



Test weights (10 – 50 kg), finely turned stainless steel KERN 347-141 ff, optional: Wooden box



Beam bars, aluminium or stainless steel



Block weights, lacquered cast iron/stainless steel glass bead blasted, optional: Aluminium protected box, lined



Class M1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

| Weight | Tol +/- mg | Milligram weight, flat polygonal sheet | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|--|------|--|-----|--|------|--|------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 mg | 0,20 | 348-01 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-651 | 17,- |
| 2 mg | 0,20 | 348-02 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-652 | 17,- |
| 5 mg | 0,20 | 348-03 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-653 | 17,- |
| 10 mg | 0,25 | 348-04 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-654 | 17,- |
| 20 mg | 0,30 | 348-05 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-655 | 17,- |
| 50 mg | 0,40 | 348-06 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-656 | 17,- |
| 100 mg | 0,50 | 348-07 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-657 | 17,- |
| 200 mg | 0,60 | 348-08 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-658 | 17,- |
| 500 mg | 0,80 | 348-09 | 5,10 | 347-009-400 | 2,- | 317-009-600 | 14,- | 338-090-200 | 34,- | 962-659 | 17,- |

Class M1 · Individual weights, knob shape

Test weights material: stainless steel

| Weight | Tol +/- mg | Individual weight | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|-------------------|-------|--|------|--|------|--|------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 g | 1,0 | 347-01 | 8,40 | 347-030-400 | 2,- | 317-010-600 | 14,- | 337-010-200 | 21,- | 962-631 | 17,- |
| 2 g | 1,2 | 347-02 | 8,80 | 347-030-400 | 2,- | 317-020-600 | 17,- | 337-020-200 | 17,- | 962-632 | 17,- |
| 5 g | 1,6 | 347-03 | 8,90 | 347-030-400 | 2,- | 317-030-600 | 15,- | 337-030-200 | 18,- | 962-633 | 17,- |
| 10 g | 2,0 | 347-04 | 9,60 | 347-050-400 | 2,- | 317-040-600 | 15,- | 337-040-200 | 18,- | 962-634 | 17,- |
| 20 g | 2,5 | 347-05 | 15,- | 347-050-400 | 2,- | 317-050-600 | 15,- | 337-050-200 | 18,- | 962-635 | 17,- |
| 50 g | 3,0 | 347-06 | 16,- | 347-070-400 | 2,- | 317-060-600 | 14,- | 337-060-200 | 20,- | 962-636 | 17,- |
| 100 g | 5,0 | 347-07 | 19,- | 347-070-400 | 2,- | 317-070-600 | 14,- | 337-070-200 | 24,- | 962-637 | 19,- |
| 200 g | 10 | 347-08 | 24,- | 347-080-400 | 2,10 | 317-080-600 | 14,- | 337-080-200 | 25,- | 962-638 | 19,- |
| 500 g | 25 | 347-09 | 37,- | 347-090-400 | 3,- | 317-090-600 | 19,- | 337-090-200 | 29,- | 962-639 | 19,- |
| 1 kg | 50 | 347-11 | 60,- | 347-110-400 | 3,80 | 317-110-600 | 27,- | 337-110-200 | 43,- | 962-641 | 19,- |
| 2 kg | 100 | 347-12 | 100,- | 347-120-400 | 5,- | 317-120-600 | 32,- | 337-120-200 | 47,- | 962-642 | 19,- |
| 5 kg | 250 | 347-13 | 220,- | 347-130-400 | 11,- | 317-130-600 | 53,- | 337-130-200 | 92,- | 962-643 | 20,- |
| 10 kg | 500 | 347-14 | 420,- | 347-140-400 | 16,- | 317-140-600 | 75,- | 337-140-200 | 93,- | 962-644 | 20,- |

Class M1 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

| Weight | Tol +/- g | Block weight | | ECO Block weight | | Aluminium protected box | | DAkkS certificate | |
|--------|-----------|--------------|-------|------------------|-------|--|-------|-------------------|------|
| | | KERN | € | KERN | € | KERN  | € | KERN | € |
| 5 kg | 0,25 | 346-86 | 72,- | 346-76 | 61,- | 346-060-600 | 80,- | 962-643 | 20,- |
| 10 kg | 0,50 | 346-87 | 125,- | 346-77 | 97,- | 346-070-600 | 104,- | 962-644 | 20,- |
| 20 kg | 1,00 | 346-88 | 235,- | 346-78 | 179,- | 346-080-600 | 152,- | 962-645 | 25,- |
| 50 kg | 2,50 | 346-89 | 530,- | 346-79 | 455,- | 346-090-600 | 171,- | 962-646 | 28,- |

Class M1 · Block weights

Block weight material: stainless steel glass bead blasted

| Weight | Tol +/- g | Block weight | | Aluminium protected box | | DAkkS certificate | |
|--------|-----------|--------------|--------|--|-------|-------------------|------|
| | | KERN | € | KERN  | € | KERN | € |
| 5 kg | 0,25 | 346-06 | 455,- | 346-060-600 | 80,- | 962-643 | 20,- |
| 10 kg | 0,50 | 346-07 | 590,- | 346-070-600 | 104,- | 962-644 | 20,- |
| 20 kg | 1,00 | 346-08 | 820,- | 346-080-600 | 152,- | 962-645 | 25,- |
| 50 kg | 2,50 | 346-09 | 2090,- | 346-090-600 | 171,- | 962-646 | 28,- |

Class M1 · Test weights, stackable

Test weight material: finely turned stainless steel

| Weight | Tol +/- g | Test weight | | Wooden box | | DAkkS certificate | |
|--------|-----------|-------------|--------|-------------|---|-------------------|------|
| | | KERN | € | KERN |  | € | KERN |
| 10 kg | 0,5 | 347-141 | 640,- | 337-141-200 | 360,- | 962-644 | 20,- |
| 20 kg | 1,0 | 347-151 | 810,- | 337-151-200 | 390,- | 962-645 | 25,- |
| 50 kg | 2,5 | 347-161 | 2050,- | 337-161-200 | 610,- | 962-646 | 28,- |

Class M1 · Heavy duty weights, stackable

Heavy duty weight material: lacquered cast iron

Designed to be lifted with forklift trucks or cranes, delivery time is approx. 6-8 weeks

Dimensions: see internet on www.kern-sohn.com

| Weight | Tol +/- g | Heavy duty weight | | DAkkS certificate | |
|---------|-----------|-------------------|---------|-------------------|-------|
| | | KERN | € | KERN | € |
| 100 kg | 5 | 346-81 | 1920,- | 962-691 | 74,- |
| 200 kg | 10 | 346-82 | 2930,- | 962-692 | 74,- |
| 500 kg | 25 | 346-83 | 5310,- | 962-693 | 74,- |
| 1000 kg | 50 | 346-84 | 7550,- | 962-694 | 161,- |
| 2000 kg | 100 | 346-85 | 14000,- | 962-695 | 295,- |

Note

We also offer a large range of heavy-duty weights in other materials, (e.g. stainless steel) and in other forms (e.g. discs) or individual weight containers, please ask for details.

Class M1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

| Weight | Knob shape, in plastic case | | Knob shape, in aluminium protected case | | Knob shape, in wooden case | | DAkkS certificate | |
|---------------|-----------------------------|---|---|---|----------------------------|---|-------------------|-------|
| | KERN |  € | KERN |  € | KERN |  € | KERN | € |
| 1 mg - 500 mg | 348-22 | 95,- | 348-226 | 159,- | - | - | 962-650 | 74,- |
| 1 mg - 50 g | 343-024 | 285,- | 343-026 | 245,- | 343-02 | 225,- | 962-601 | 125,- |
| 1 mg - 100 g | 343-034 | 305,- | 343-036 | 265,- | 343-03 | 245,- | 962-602 | 131,- |
| 1 mg - 200 g | 343-044 | 350,- | 343-046 | 315,- | 343-04 | 295,- | 962-603 | 148,- |
| 1 mg - 500 g | 343-054 | 390,- | 343-056 | 350,- | 343-05 | 375,- | 962-604 | 154,- |
| 1 mg - 1 kg | 343-064 | 550,- | 343-066 | 450,- | 343-06 | 550,- | 962-605 | 162,- |
| 1 mg - 2 kg | 343-074 | 730,- | 343-076 | 680,- | 343-07 | 740,- | 962-606 | 178,- |
| 1 mg - 5 kg | 343-084 | 920,- | 343-086 | 920,- | 343-08 | 1040,- | 962-607 | 189,- |
| 1 mg - 10 kg | - | - | 343-096 | 1350,- | 343-09 | 1480,- | 962-608 | 197,- |
| 1 g - 50 g | 344-024 | 198,- | 344-026 | 172,- | 344-02 | 153,- | 962-615 | 49,- |
| 1 g - 100 g | 344-034 | 215,- | 344-036 | 191,- | 344-03 | 176,- | 962-616 | 58,- |
| 1 g - 200 g | 344-044 | 265,- | 344-046 | 240,- | 344-04 | 220,- | 962-617 | 71,- |
| 1 g - 500 g | 344-054 | 305,- | 344-056 | 280,- | 344-05 | 295,- | 962-618 | 80,- |
| 1 g - 1 kg | 344-064 | 460,- | 344-066 | 375,- | 344-06 | 435,- | 962-619 | 87,- |
| 1 g - 2 kg | 344-074 | 650,- | 344-076 | 610,- | 344-07 | 640,- | 962-620 | 105,- |
| 1 g - 5 kg | 344-084 | 840,- | 344-086 | 860,- | 344-08 | 930,- | 962-621 | 113,- |
| 1 g - 10 kg | - | - | 344-096 | 1300,- | 344-09 | 1310,- | 962-622 | 122,- |

Class M1 · Hook weights

Hook weight material: finely turned stainless steel

| Weight | Tol +/- mg | Hook weight | | Plastic box, lined | | DAkkS certificate | |
|--------|------------|-------------|-------|--------------------|------|-------------------|------|
| | | KERN | € | KERN | € | KERN | € |
| 1 g | 1,0 | 347-016 | 26,- | 347-030-400 | 2,- | 962-631 | 17,- |
| 2 g | 1,2 | 347-026 | 26,- | 347-030-400 | 2,- | 962-632 | 17,- |
| 5 g | 1,6 | 347-036 | 27,- | 347-030-400 | 2,- | 962-633 | 17,- |
| 10 g | 2,0 | 347-046 | 27,- | 347-050-400 | 2,- | 962-634 | 17,- |
| 20 g | 2,5 | 347-056 | 28,- | 347-050-400 | 2,- | 962-635 | 17,- |
| 50 g | 3,0 | 347-066 | 33,- | 347-070-400 | 2,- | 962-636 | 17,- |
| 100 g | 5,0 | 347-076 | 37,- | 347-090-400 | 3,- | 962-637 | 19,- |
| 200 g | 10,0 | 347-086 | 46,- | 347-090-400 | 3,- | 962-638 | 19,- |
| 500 g | 25,0 | 347-096 | 80,- | 347-110-400 | 3,80 | 962-639 | 19,- |
| 1 kg | 50,0 | 347-116 | 103,- | 347-120-400 | 5,- | 962-641 | 19,- |
| 2 kg | 100,0 | 347-126 | 168,- | 347-130-400 | 11,- | 962-642 | 20,- |
| 5 kg | 250,0 | 347-136 | 295,- | 347-140-400 | 16,- | 962-643 | 20,- |
| 10 kg | 500,0 | 347-146 | 485,- | - | - | 962-644 | 20,- |

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel (only compatible with the 347-...7-100 series supporting bars)

| Weight | Tol +/- mg | Slotted weight | | DAkkS certificate | |
|--------|------------|----------------------------|-------|-------------------|------|
| | | KERN | € | KERN | € |
| 5 g | 1,6 | 347-037 <small>NEW</small> | 27,- | 962-633 | 17,- |
| 10 g | 2,0 | 347-047 <small>NEW</small> | 29,- | 962-634 | 17,- |
| 20 g | 2,5 | 347-057 <small>NEW</small> | 31,- | 962-635 | 17,- |
| 50 g | 3,0 | 347-067 <small>NEW</small> | 36,- | 962-636 | 17,- |
| 100 g | 5,0 | 347-077 <small>NEW</small> | 63,- | 962-637 | 19,- |
| 200 g | 10 | 347-087 <small>NEW</small> | 70,- | 962-638 | 19,- |
| 500 g | 25 | 347-097 <small>NEW</small> | 79,- | 962-639 | 19,- |
| 1 kg | 50 | 347-117 <small>NEW</small> | 170,- | 962-641 | 19,- |
| 2 kg | 100 | 347-127 <small>NEW</small> | 200,- | 962-642 | 20,- |
| 5 kg | 250 | 347-137 <small>NEW</small> | 385,- | 962-643 | 20,- |
| 10 kg | 500 | 347-147 <small>NEW</small> | 480,- | 962-644 | 20,- |



Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g–1 kg: finely turned stainless steel (only compatible with the 347-...7 series supporting bars)

| Own weight beam bar | Maximum total load ⁽¹⁾ | Largest slotted weight possible | Material | Length | Tol +/- mg | Beam bar | | DAkkS certificate | |
|---------------------|-----------------------------------|---------------------------------|-----------------|--------|------------|--------------------------------|-------|-------------------|------|
| | | | | | | KERN | € | KERN | € |
| 1 kg | 161 kg | 10 kg | Stainless steel | 300 mm | 50 | 347-117-100 <small>NEW</small> | 35,- | 962-641 | 19,- |
| 5 kg | 125 kg | 10 kg | Stainless steel | 600 mm | 250 | 347-137-100 <small>NEW</small> | 405,- | 962-643 | 20,- |
| 10 kg | 180 kg | 10 kg | Stainless steel | 800 mm | 500 | 347-147-100 <small>NEW</small> | 530,- | 962-644 | 20,- |

⁽¹⁾ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from "Maximum total load" + "own weight beam bar"

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to **M1 tolerances**, additional price € 8,-/pc. We need to know the exact location of use of the newton weights (street, postcode, city and country).

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1, additional price € 8,-

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel

| Weight | Tol +/- mg | Slotted weight | | Plastic box, lined | | DAkkS certificate | |
|--------|------------|----------------|-------|--------------------|------|-------------------|------|
| | | KERN | € | KERN | € | KERN | € |
| 1 g | 1,0 | 347-015 | 28,- | 347-030-400 | 2,- | 962-631 | 17,- |
| 2 g | 1,2 | 347-025 | 28,- | 347-030-400 | 2,- | 962-632 | 17,- |
| 5 g | 1,6 | 347-035 | 30,- | 347-030-400 | 2,- | 962-633 | 17,- |
| 10 g | 2,0 | 347-045 | 33,- | 347-030-400 | 2,- | 962-634 | 17,- |
| 20 g | 2,5 | 347-055 | 35,- | 347-080-400 | 2,10 | 962-635 | 17,- |
| 50 g | 3,0 | 347-065 | 37,- | 347-080-400 | 2,10 | 962-636 | 17,- |
| 100 g | 5,0 | 347-075 | 43,- | 347-090-400 | 3,- | 962-637 | 19,- |
| 200 g | 10 | 347-085 | 53,- | 347-090-400 | 3,- | 962-638 | 19,- |
| 500 g | 25 | 347-095 | 73,- | 347-110-400 | 3,80 | 962-639 | 19,- |
| 1 kg | 50 | 347-115 | 130,- | 347-130-400 | 11,- | 962-641 | 19,- |
| 2 kg | 100 | 347-125 | 161,- | 347-130-400 | 11,- | 962-642 | 20,- |
| 5 kg | 250 | 347-135 | 290,- | 347-140-400 | 16,- | 962-643 | 20,- |
| 10 kg | 500 | 347-145 | 430,- | 347-140-400 | 16,- | 962-644 | 20,- |

Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g-1 kg: finely turned stainless steel

| Own weight beam bar | Maximum total load ⁽¹⁾ | Largest slotted weight possible | Material | Length | Beam bar | | DAkkS certificate | |
|---------------------|-----------------------------------|---------------------------------|-----------------|--------|----------------|-------|-------------------|------|
| | | | | | KERN | € | KERN | € |
| 10 g | 200 g | 100 g | Aluminium | 117,5 | 347-445-100* | 56,- | 962-634 | 17,- |
| 100 g | 2 kg | 1 kg | Stainless steel | 238 | 347-075-100** | 77,- | 962-637 | 19,- |
| 500 g | 20 kg | 10 kg | Stainless steel | 639 | 347-095-100*** | 127,- | 962-639 | 19,- |
| 1 kg | 40 kg | 10 kg | Stainless steel | 1020 | 347-115-100*** | 160,- | 962-641 | 19,- |

⁽¹⁾ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from "Maximum total load" + "own weight beam bar"

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to **M1 tolerances**, additional price € 8,-/pc.

We need to know the exact location of use of the newton weights (street, postcode, city and country).

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1, additional price € 8,-

Test Weights and Boxes

Classes M2 · M3



Individual weights/Weight sets,
knob shape, stainless steel



Individual weights/Weight sets,
knob shape, lacquered cast iron



Block weights,
lacquered cast iron



Plastic box, lined,
for individual weights



Aluminium protected box,
lined, for individual weights



Wooden box, not lined, for
individual weights ≤ 500 g,
❗ not appropriate for
cast iron weights



Wooden box, not lined, for
individual weights ≥ 1 kg,
❗ not appropriate for
cast iron weights



Aluminium protected case,
lined, for block weights



Aluminium protected case, lined, for weight
sets knob shape, finely turned stainless steel,
❗ not appropriate for cast iron weights



Wooden case, for weight sets, knob shape,
finely turned stainless steel



Wooden block, for weight sets,
knob shape, lacquered cast iron

Class M2 · Individual weights, knob shape

Test weight material: finely turned stainless steel

| Weight | Tol +/- mg | Individual weight, knob shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|-------------------------------|-------|--|------|---|------|--|------|-------------------|------|
| | | KERN | € | KERN  | € | KERN  | € | KERN  | € | KERN | € |
| 1 g | 3 | 357-01 | 8,40 | 347-030-400 | 2,- | 317-010-600 | 14,- | 337-010-200 | 21,- | 962-631 | 17,- |
| 2 g | 4 | 357-02 | 8,80 | 347-030-400 | 2,- | 317-020-600 | 17,- | 337-020-200 | 17,- | 962-632 | 17,- |
| 5 g | 5 | 357-03 | 8,90 | 347-030-400 | 2,- | 317-030-600 | 15,- | 337-030-200 | 18,- | 962-633 | 17,- |
| 10 g | 6 | 357-04 | 9,60 | 347-050-400 | 2,- | 317-040-600 | 15,- | 337-040-200 | 18,- | 962-634 | 17,- |
| 20 g | 8 | 357-05 | 15,- | 347-050-400 | 2,- | 317-050-600 | 15,- | 337-050-200 | 18,- | 962-635 | 17,- |
| 50 g | 10 | 357-06 | 16,- | 347-070-400 | 2,- | 317-060-600 | 14,- | 337-060-200 | 20,- | 962-636 | 17,- |
| 100 g | 16 | 357-07 | 19,- | 347-070-400 | 2,- | 317-070-600 | 14,- | 337-070-200 | 24,- | 962-637 | 19,- |
| 200 g | 30 | 357-08 | 24,- | 347-080-400 | 2,10 | 317-080-600 | 14,- | 337-080-200 | 25,- | 962-638 | 19,- |
| 500 g | 80 | 357-09 | 37,- | 347-090-400 | 3,- | 317-090-600 | 19,- | 337-090-200 | 29,- | 962-639 | 19,- |
| 1 kg | 160 | 357-11 | 60,- | 347-110-400 | 3,80 | 317-110-600 | 27,- | 337-110-200 | 43,- | 962-641 | 19,- |
| 2 kg | 300 | 357-12 | 100,- | 347-120-400 | 5,- | 317-120-600 | 32,- | 337-120-200 | 47,- | 962-642 | 20,- |
| 5 kg | 800 | 357-13 | 220,- | 347-130-400 | 11,- | 317-130-600 | 53,- | 337-130-200 | 92,- | 962-643 | 20,- |
| 10 kg | 1600 | 357-14 | 420,- | 347-140-400 | 16,- | 317-140-600 | 75,- | 337-140-200 | 93,- | 962-644 | 20,- |

Class M2 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

| Weight | Tol +/- g | Block weight | | ECO block weight | | Aluminium protected box | | DAkkS certificate | |
|--------|-----------|--------------|-------|------------------|-------|--|-------|-------------------|------|
| | | KERN | € | KERN | € | KERN  | € | KERN | € |
| 5 kg | 0,8 | 356-86 | 72,- | 356-76 | 61,- | 346-060-600 | 80,- | 962-643 | 20,- |
| 10 kg | 1,6 | 356-87 | 125,- | 356-77 | 97,- | 346-070-600 | 104,- | 962-644 | 20,- |
| 20 kg | 3,0 | 356-88 | 235,- | 356-78 | 179,- | 346-080-600 | 152,- | 962-645 | 25,- |
| 50 kg | 8,0 | 356-89 | 530,- | 356-79 | 455,- | 346-090-600 | 171,- | 962-646 | 28,- |

Class M2 · Weight sets, knob shape

Test weight material: finely turned stainless steel

| Weight | Knob shape, in aluminium protected case | | Knob shape, in wooden case | | DAkkS certificate | |
|-------------|--|--------|--|--------|-------------------|-------|
| | KERN  | € | KERN  | € | KERN | € |
| 1 g – 50 g | 354-026 | 172,- | 354-02 | 153,- | 962-615 | 49,- |
| 1 g – 100 g | 354-036 | 191,- | 354-03 | 165,- | 962-616 | 58,- |
| 1 g – 200 g | 354-046 | 240,- | 354-04 | 220,- | 962-617 | 71,- |
| 1 g – 500 g | 354-056 | 280,- | 354-05 | 295,- | 962-618 | 80,- |
| 1 g – 1 kg | 354-066 | 375,- | 354-06 | 430,- | 962-619 | 87,- |
| 1 g – 2 kg | 354-076 | 610,- | 354-07 | 630,- | 962-620 | 105,- |
| 1 g – 5 kg | 354-086 | 920,- | 354-08 | 920,- | 962-621 | 113,- |
| 1 g – 10 kg | 354-096 | 1450,- | 354-09 | 1380,- | 962-622 | 122,- |

Class M3 · Individual weights, knob shape

Test weight material: finely turned stainless steel

| Weight | Tol +/- mg | Individual weight, knob shape | | Plastic box | | Aluminium protected box | | Wooden box | | DAkkS certificate | |
|--------|------------|-------------------------------|-------|-------------|------|-------------------------|------|-------------|------|-------------------|------|
| | | KERN | € | KERN | € | KERN | € | KERN | € | KERN | € |
| 1 g | 10 | 367-01 | 8,40 | 347-030-400 | 2,- | 317-010-600 | 14,- | 337-010-200 | 21,- | 962-631 | 17,- |
| 2 g | 12 | 367-02 | 8,80 | 347-030-400 | 2,- | 317-020-600 | 17,- | 337-020-200 | 17,- | 962-632 | 17,- |
| 5 g | 16 | 367-03 | 8,90 | 347-030-400 | 2,- | 317-030-600 | 15,- | 337-030-200 | 18,- | 962-633 | 17,- |
| 10 g | 20 | 367-04 | 9,60 | 347-050-400 | 2,- | 317-040-600 | 15,- | 337-040-200 | 18,- | 962-634 | 17,- |
| 20 g | 25 | 367-05 | 15,- | 347-050-400 | 2,- | 317-050-600 | 15,- | 337-050-200 | 18,- | 962-635 | 17,- |
| 50 g | 30 | 367-06 | 16,- | 347-070-400 | 2,- | 317-060-600 | 14,- | 337-060-200 | 20,- | 962-636 | 17,- |
| 100 g | 50 | 367-07 | 19,- | 347-070-400 | 2,- | 317-070-600 | 14,- | 337-070-200 | 24,- | 962-637 | 19,- |
| 200 g | 100 | 367-08 | 24,- | 347-080-400 | 2,10 | 317-080-600 | 14,- | 337-080-200 | 25,- | 962-638 | 19,- |
| 500 g | 250 | 367-09 | 37,- | 347-090-400 | 3,- | 317-090-600 | 19,- | 337-090-200 | 29,- | 962-639 | 19,- |
| 1 kg | 500 | 367-11 | 60,- | 347-110-400 | 3,80 | 317-110-600 | 27,- | 337-110-200 | 43,- | 962-641 | 19,- |
| 2 kg | 1000 | 367-12 | 100,- | 347-120-400 | 5,- | 317-120-600 | 32,- | 337-120-200 | 47,- | 962-642 | 20,- |

Class M3 · Individual weights, knob and cylindrical shape

Test weight material: lacquered cast iron

| Weight | Tol +/- g | Individual weight, knob and cylindrical shape | | DAkkS certificate | |
|---------|-----------|---|-------|-------------------|------|
| | | KERN | € | KERN | € |
| 100 g* | 0,05 | 366-91 | 24,- | 962-637 | 19,- |
| 200 g* | 0,10 | 366-92 | 28,- | 962-638 | 19,- |
| 500 g** | 0,25 | 366-93 | 39,- | 962-639 | 19,- |
| 1 kg** | 0,50 | 366-94 | 47,- | 962-641 | 19,- |
| 2 kg** | 1,0 | 366-95 | 80,- | 962-642 | 20,- |
| 5 kg** | 2,5 | 366-96 | 145,- | 962-643 | 20,- |
| 10 kg** | 5,0 | 366-97 | 255,- | 962-644 | 20,- |



Class M3 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

| Weight | Tol +/- g | Block weight | | ECO block weight | | Aluminium protected box | | DAkkS certificate | |
|--------|-----------|--------------|-------|------------------|-------|-------------------------|-------|-------------------|------|
| | | KERN | € | KERN | € | KERN | € | KERN | € |
| 5 kg | 2,5 | 366-86 | 72,- | 366-76 | 61,- | 346-060-600 | 80,- | 962-643 | 20,- |
| 10 kg | 5,0 | 366-87 | 125,- | 366-77 | 97,- | 346-070-600 | 104,- | 962-644 | 20,- |
| 20 kg | 10 | 366-88 | 235,- | 366-78 | 179,- | 346-080-600 | 152,- | 962-645 | 25,- |
| 50 kg | 25 | 366-89 | 530,- | 366-79 | 455,- | 346-090-600 | 171,- | 962-646 | 28,- |

Class M3 · Weight sets, knob and cylindrical shape

Test weight material: ≤ 50 g stainless steel, ≥ 100 g lacquered cast iron

| Weight | Knob and cylindrical shape, in wooden block | | DAkkS certificate | |
|-------------|---|-------|-------------------|-------|
| | KERN | € | KERN | € |
| 1 g - 1 kg | 362-96 | 320,- | 962-619 | 87,- |
| 1 g - 2 kg | 362-97 | 495,- | 962-620 | 105,- |
| 1 g - 5 kg | 362-98 | 670,- | 962-621 | 113,- |
| 1 g - 10 kg | 362-99 | 950,- | 962-622 | 122,- |



Individual weights ≤ 50 g



Individual weights 100 g and 200 g



Individual weights ≥ 500 g

Tweezers, weight grips, gloves, dusting brush



Tweezers

to be able to safely grip small test weights

| For class | For weight | Length | Version | KERN | € |
|-----------|--------------|--------|---|---------|------|
| E1 - M3 | 1 mg - 200 g | 105 mm | 1 Stainless steel with silicone-coated tips | 315-243 | 20,- |
| E1 - M3 | 500 g - 2 kg | 250 mm | 1 Stainless steel with silicone-coated tips | 315-245 | 65,- |
| E1 - M3 | ≤ 5 g | 130 mm | 2 Stainless steel, curved, high-quality plastic tips | 315-246 | 22,- |
| E1 - M3 | ≤ 5 g | 136 mm | 3 Stainless steel, straight, high quality plastic tips | 315-247 | 22,- |
| E1 - M3 | ≤ 200 g | 225 mm | 4 Stainless steel, straight, high-quality plastic tips, with a special shape for gripping weights of various shapes and sizes | 315-248 | 36,- |
| F2 - M3 | 1 mg - 200 g | 100 mm | 5 Stainless steel | 335-240 | 18,- |
| E1 - M3 | 1 mg - 200 g | 100 mm | 6 Plastic | 315-242 | 8,70 |

Weight grip

plastic coated

| For class | For knob shaped weights | KERN | € |
|-----------|-------------------------|---------|------|
| E1 - M3 | 2 kg | 315-273 | 32,- |
| E1 - M3 | 5 kg | 315-274 | 36,- |
| E1 - M3 | 10 kg | 315-275 | 41,- |
| E1 - M3 | 20 kg | 315-276 | 61,- |



1 not appropriate for cast iron weights



Gloves

Cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc. Suitable for test weights up to 2 kg.

| | |
|---------|------|
| KERN | € |
| 317-280 | 2,60 |



Gloves

Leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc. Ideal for test weights from 2 kg.

| | |
|---------|------|
| KERN | € |
| 317-290 | 6,60 |



Premium gloves

Nylon, 1 pair. Particularly elastic, one size fits all, with special fingertip coating to ensure a safe grip. Helps to protect the test weights in everyday use from grease from fingers, damp etc. Ideal for all test weights.

| | |
|---------|-----|
| KERN | € |
| 317-281 | 9,- |



Dusting brush

to clean the weights

| | |
|---------|------|
| KERN | € |
| 318-270 | 7,20 |



Bellows

for cleaning weights

| | |
|---------|------|
| KERN | € |
| 318-271 | 9,60 |



Microfibre cloth

for cleaning weights

| | |
|---------|------|
| KERN | € |
| 318-272 | 6,90 |

Boxes for individual weights



For weights ≤ 500 g,
OIML class E1 – F1

For weights ≥ 1 kg,
OIML class E1 – F1

Box material: Wood, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327



For weights ≤ 500 g,
OIML class F2 – M3

For weights ≥ 1 kg,
OIML class F2 – M3

Box material: Wood, not lined, suitable for single weights, KERN No. 337, 347, 357, 367

❗ not suitable for cast iron weights



For test weights ≥ 10 kg,
OIML class F1 – M1

Box material: Wood, lined/not lined, suitable for single weights, KERN No. 327, 337, 347

❗ not suitable for cast iron weights

Wooden box, lined

for single weights E1 – F1

| For weights | KERN | € |
|-------------|-------------|-------|
| - | - | - |
| 1 g | 317-010-100 | 30,- |
| 2 g | 317-020-100 | 30,- |
| 5 g | 317-030-100 | 32,- |
| 10 g | 317-040-100 | 30,- |
| 20 g | 317-050-100 | 31,- |
| 50 g | 317-060-100 | 32,- |
| 100 g | 317-070-100 | 35,- |
| 200 g | 317-080-100 | 36,- |
| 500 g | 317-090-100 | 46,- |
| 1 kg | 317-110-100 | 68,- |
| 2 kg | 317-120-100 | 69,- |
| 5 kg | 317-130-100 | 101,- |
| 10 kg | 317-140-100 | 122,- |
| 20 kg | 317-150-100 | 630,- |
| 50 kg | 317-160-100 | 880,- |

Wooden box, not lined

for single weights F2 – M3

| For weights | KERN | € |
|-------------|-------------|-------|
| mg | 338-090-200 | 34,- |
| 1 g | 337-010-200 | 21,- |
| 2 g | 337-020-200 | 17,- |
| 5 g | 337-030-200 | 18,- |
| 10 g | 337-040-200 | 18,- |
| 20 g | 337-050-200 | 18,- |
| 50 g | 337-060-200 | 20,- |
| 100 g | 337-070-200 | 24,- |
| 200 g | 337-080-200 | 25,- |
| 500 g | 337-090-200 | 29,- |
| 1 kg | 337-110-200 | 43,- |
| 2 kg | 337-120-200 | 47,- |
| 5 kg | 337-130-200 | 92,- |
| 10 kg | 337-140-200 | 93,- |
| 20 kg | 337-150-200 | 390,- |
| 50 kg | 337-160-200 | 610,- |

Wooden box, not lined

for test weights F1 – M1

| For weights | KERN | € |
|-------------|-------------|-------|
| 10 kg | 337-141-200 | 360,- |
| 20 kg | 337-151-200 | 390,- |
| 50 kg | 337-161-200 | 610,- |

Wooden box, lined

for test weights F1 – M1

| For weights | KERN | € |
|-------------|-------------|-------|
| 10 kg | 337-141-100 | 340,- |
| 20 kg | 337-151-100 | 370,- |
| 50 kg | 337-161-100 | 570,- |



For weights ≤ 5 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for mg and single weights, KERN No. 307, 308, 316, 317, 318, 326, 327, 328, 337, 338, 347, 348, 357, 367

❗ not suitable for cast iron weights

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 – M3

| For weights | KERN | € |
|-------------|-------------|------|
| mg | 317-009-600 | 14,- |
| 1 g | 317-010-600 | 14,- |
| 2 g | 317-020-600 | 17,- |
| 5 g | 317-030-600 | 15,- |
| 10 g | 317-040-600 | 15,- |
| 20 g | 317-050-600 | 15,- |
| 50 g | 317-060-600 | 14,- |
| 100 g | 317-070-600 | 14,- |
| 200 g | 317-080-600 | 14,- |
| 500 g | 317-090-600 | 19,- |
| 1 kg | 317-110-600 | 27,- |
| 2 kg | 317-120-600 | 32,- |
| 5 kg | 317-130-600 | 53,- |



For weights ≤ 10 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327, 337, 347, 357, 367

❗ not suitable for cast iron weights

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 – M3

| For weights | KERN | € |
|-------------|-------------|-------|
| 10 kg | 317-140-600 | 75,- |
| 20 kg | 317-150-600 | 105,- |
| 50 kg | 317-160-600 | 305,- |



For block weight ≥ 5 kg, OIML class F1 – M3

Box material: Aluminium protected, lined, suitable for block weights, KERN No. 326, 336, 346, 356, 366

Aluminium protected box, lined

for individual weights F1 – M3

| For weights | KERN | € |
|-------------|-------------|-------|
| 5 kg | 346-060-600 | 80,- |
| 10 kg | 346-070-600 | 104,- |
| 20 kg | 346-080-600 | 152,- |
| 50 kg | 346-090-600 | 171,- |

Carrying cases/boxes for individual weight sets

Individual weight sets:

You can create your own "tailor-made" individual weight sets yourself.

KERN will customise your own personal wooden box/plastic carrying case.

The largest individual weight which will fit is given in the table.

Sample order:

Your individual weight set (class F1):

1 × 50 g, 2 × 100 g, 1 × 500 g, 2 × 1 kg, 1 × 2 kg.

The correct individual box is **KERN No. 313-080-400** (plastic) or

KERN No. 315-070-100 (wood, lined)



Plastic case

for individual weight sets classes E1 – M3, not appropriate for cast iron weights

| Largest possible weight | KERN |  | € |
|-------------------------|-------------|---|--------------|
| ≤ 500 g | 313-050-400 | | 166,- |
| ≤ 5 kg | 313-080-400 | | 320,- |

Wooden case

lined, for individual weight sets classes E1 – F1
* with side handles

| Largest possible weight | KERN |  | € |
|-------------------------|-------------|---|--------------|
| ≤ 200 g | 315-040-100 | | 235,- |
| ≤ 1 kg | 315-060-100 | | 350,- |
| ≤ 2 kg | 315-070-100 | | 405,- |
| ≤ 5 kg* | 315-080-100 | | 510,- |
| ≤ 10 kg* | 315-090-100 | | 560,- |

Wooden case not lined, for individual weight set classes F2 – M3, not appropriate for cast iron weights * with side handles

| Largest possible weight | KERN |  | € |
|-------------------------|-------------|---|--------------|
| ≤ 200 g | 335-040-200 | | 154,- |
| ≤ 500 g | 335-050-200 | | 154,- |
| ≤ 1 kg | 335-060-200 | | 215,- |
| ≤ 2 kg | 335-070-200 | | 225,- |
| ≤ 5 kg* | 335-080-200 | | 340,- |
| ≤ 10 kg* | 335-090-200 | | 330,- |

Carrying cases for standard weight sets



Fig. shows
313-010-600

Aluminium protected case for safe storage and transportation under harsh industrial conditions.

Plastic case for weight sets

with standard denomination classes E1 – M3, not appropriate for cast iron weights

| Largest possible weight | KERN |  | € |
|-------------------------|-------------|---|--------------|
| ≤ 500 g | 313-052-400 | | 102,- |
| ≤ 5 kg | 313-082-400 | | 205,- |

Aluminium protected case

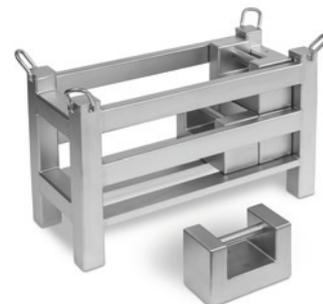
for weight sets with standard denomination classes E1 – M2
*no handle **1 front handle ***2 side handles

| For weights | For class | KERN |  | € |
|---------------|-----------|----------------|---|--------------|
| 1 mg - 500 mg | E1 - M1 | 313-010-600* | | 92,- |
| 1 mg - 50 g | E1 - M1 | 313-020-600* | | 94,- |
| 1 mg - 100 g | E1 - M1 | 313-030-600* | | 103,- |
| 1 mg - 200 g | E1 - M1 | 313-040-600* | | 109,- |
| 1 mg - 500 g | E1 - M1 | 313-050-600* | | 132,- |
| 1 mg - 1 kg | E1 - M1 | 313-060-600* | | 161,- |
| 1 mg - 2 kg | E1 - M1 | 313-070-600** | | 189,- |
| 1 mg - 5 kg | E1 - M1 | 313-080-600*** | | 250,- |
| 1 mg - 10 kg | E1 - M1 | 313-090-600*** | | 330,- |
| 1 g - 50 g | E1 - M2 | 314-020-600* | | 89,- |
| 1 g - 100 g | E1 - M2 | 314-030-600* | | 98,- |
| 1 g - 200 g | E1 - M2 | 314-040-600* | | 104,- |
| 1 g - 500 g | E1 - M2 | 314-050-600* | | 127,- |
| 1 g - 1 kg | E1 - M2 | 314-060-600* | | 156,- |
| 1 g - 2 kg | E1 - M2 | 314-070-600* | | 184,- |
| 1 g - 5 kg | E1 - M2 | 314-080-600*** | | 245,- |
| 1 g - 10 kg | E1 - M2 | 314-090-600*** | | 330,- |

Weight containers for rectangular weights or other test weights, stainless steel glass bead blasted, adjusted to OIML class M1

Preconfigured weight containers for testing high-load floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the balance in one go, saving you time and money. The weight container is adjusted to OIML accuracy class M1. Other OIML accuracy classes are also available, please ask.

| Weight of the weight container, OIML class M1 | Tol +/- g | Possible equipment, rectangular weights, OIML class M1 | Maximum total weight (weight container incl. weights) | Price (weight container excluding weights) | |
|---|-----------|--|---|--|--------|
| | | | | KERN | € |
| 20 kg | 1,0 | 5 × 20 kg | 120 kg | 346-022-005 | 1610,- |
| 40 kg | 1,5 | 8 × 20 kg | 200 kg | 346-042-008 | 2070,- |
| 50 kg | 2,5 | 10 × 20 kg | 250 kg | 346-052-010 | 2070,- |
| 50 kg | 2,5 | 4 × 50 kg | 250 kg | 346-055-004 | 2070,- |
| 50 kg | 2,5 | 9 × 50 kg | 500 kg | 346-055-009 | 2070,- |
| 60 kg | 3,0 | 8 × 50 kg and 2 × 20 kg | 500 kg | 346-065-009 | 2250,- |



| Weight of the weight container, OIML class M1 | Tol +/- g | Possible equipment, test weights, OIML class M1 | Maximum total weight (weight container incl. weights) | Price (weight container excluding weights) | |
|---|-----------|---|---|--|--------|
| | | | | KERN | € |
| 20 kg | 1,0 | max. 10 × 10 kg or 5 × 20 kg | 120 kg | 347-022-005 | 1610,- |
| 40 kg | 2,0 | max. 16 × 10 kg or 8 × 20 kg | 200 kg | 347-042-008 | 1890,- |
| 50 kg | 2,5 | max. 20 × 10 kg or 10 × 20 kg | 250 kg | 347-052-010 | 2070,- |
| 60 kg | 3,0 | max. 22 × 20 kg | 500 kg | 347-062-022 | 2250,- |



Individual weight containers for rectangular weights or other test weights, calibrated to OIML class M1

Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 - M3. On request, KERN will make you a "tailor-made" weight carrier to your specifications.

Example:

| | | | |
|--------------------|----------------------|---|--------|
| 3 block weights | each 50 kg, class M1 | = | 150 kg |
| 1 weight container | each 50 kg, class M1 | = | 50 kg |
| Total | | = | 200 kg |

| Weight of the weight container, OIML class M1 | Price | |
|---|-------------|------------------|
| | KERN | € |
| Individual weight container for rectangular weights | 346-000-000 | Price on request |
| Individual weight container for test weights | 347-000-000 | Price on request |



Example illustration

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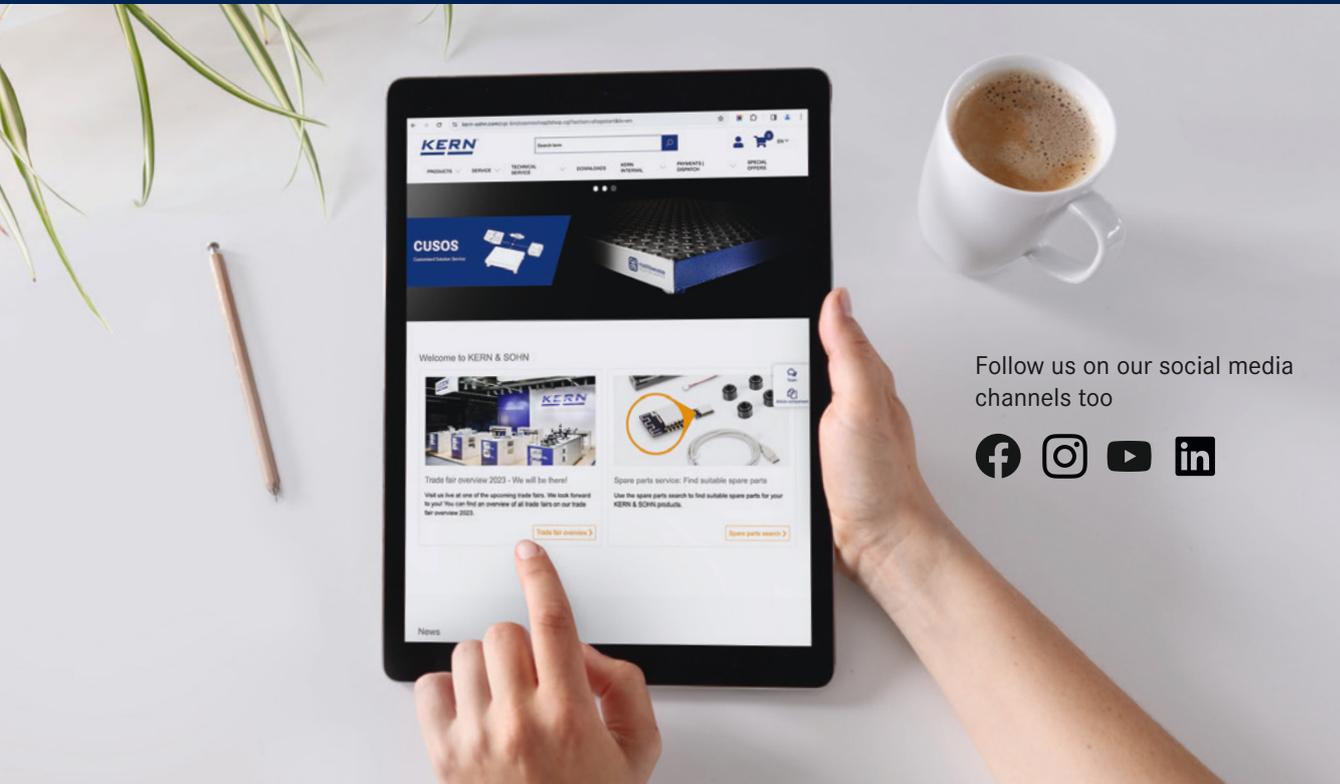
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