Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE | TECHNICAL SPECIFICATION

SLOTTED WEIGHTS PDF | PRODUCT PAGE | REQUEST QUOTE | WEIGHING OVERVIEW | CATALOGUE OVERVIEW | M1 CALIBRATION WEIGHTS

# Slotted Weights Set M1

## Slotted Calibration Weights 100 g - 10 kg | Weight Hanger 200 g | OIML R111-1 Class M1 | Stainless Steel

**The COLO slotted weights set** combines seven slotted weights from 100 g to 10 kg with a 200 g weight hanger. The weights slide onto the hanger rod through the slot and stack centrally, so defined test loads from 200 g up to 19 kg can be built on one hanger. The set is intended for calibration and load testing of test and measuring equipment, force gauges, spring scales, hanging scales and test stands.

CLASS M1 | OIML R111-1 | 100 G - 10 KG | HANGER 200 G | TOTAL LOAD 19 KG | STAINLESS STEEL | SLOT 8.5 MM | CERTIFICATE OPTION

Document type: **Technical Specification Sheet**
Product family: **Calibration weights | slotted weights**
Set content: **100 g, 200 g, 500 g, 1 kg, 2 kg, 5 kg, 10 kg + hanger 200 g**
Accuracy class: **M1 according to OIML R111-1**
Format: **A4 landscape | COLO.Science TechSpec v2.4**



Slotted weights class M1 | stainless steel | weight hanger with hook

LOAD RANGE
200 g - 19 kg
on one hanger

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# Slotted weights set | class M1

Stackable test loads from 200 g to 19 kg on one weight hanger

OIML R111-1 M1 | 7 WEIGHTS + HANGER | STAINLESS STEEL | CENTRAL STACKING **For calibration and load testing of test and measuring equipment**

## Set Overview

### Application profile

**Force and tension testing:** calibration and verification of force gauges, tension meters and spring scales.

**Test stands:** defined dead-weight loads for test rigs and fixtures.

**Hanging and crane scales:** step-by-step load checks with a hanger.

**T&E equipment:** routine load checks within the quality system.

### Design and handling

**Slotted design:** 8.5 mm slot with central bore Ø 12 mm in every weight.

**Central stacking:** the weights slide onto the hanger rod and rest centrally on each other.

**Weight hanger 200 g:** rod with hook and base disc; the hanger mass is part of the test load.

**Stainless steel:** machined surfaces, each weight with adjusting cavity.

### Key features

**Accuracy class:** M1 according to OIML R111-1.

**Set content:** 100 g, 200 g, 500 g, 1 kg, 2 kg, 5 kg and 10 kg, 1 pc each.

**Hanger:** 200 g, suitable for all weights of the set.

**Total load:** up to 19 kg with all weights and hanger.

**Test points:** 100 g to 10 kg weights combined on the hanger for the required load steps.

**Certificate:** calibration certificate for the set available as an option.

### Core technical summary

| Parameter | Specification |
|---|---|
| **Accuracy class** | M1, OIML R111-1 |
| **Nominal values** | 100 g / 200 g / 500 g / 1 / 2 / 5 / 10 kg |
| **Weight hanger** | 200 g |
| **Maximum total load** | 19 kg (all weights + hanger) |
| **Material** | Stainless steel |
| **Slot / central bore** | 8.5 mm / Ø 12 mm |
| **Certificate** | Calibration certificate (option) |

| WEIGHTS | RANGE | TOTAL LOAD | CLASS |
|---|---|---|---|
| **7 + hanger** | **100 g - 10 kg** | **19 kg** | **M1 (OIML R111-1)** |

# Weights and Technical Specifications

## Weights in the set

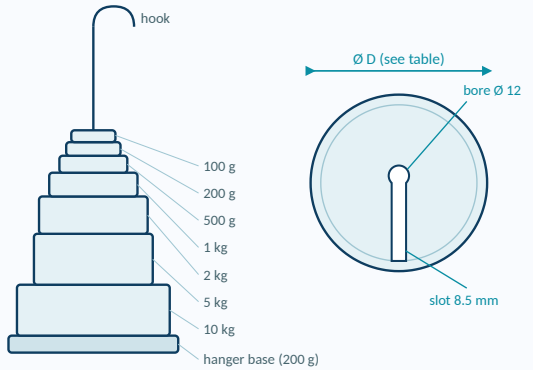
| Nominal value | Diameter D (mm) | Height H (mm) | Slot / central bore | Max. permissible error, class M1 |
|---|---|---|---|---|
| **100 g** | 45 | 9.7 | 8.5 mm / Ø 12 mm | ± 5 mg |
| **200 g** | 60 | 10.4 | 8.5 mm / Ø 12 mm | ± 10 mg |
| **500 g** | 80 | 14.1 | 8.5 mm / Ø 12 mm | ± 25 mg |
| **1 kg** | 100 | 17.6 | 8.5 mm / Ø 12 mm | ± 50 mg |
| **2 kg** | 100 | 34.8 | 8.5 mm / Ø 12 mm | ± 100 mg |
| **5 kg** | – | 54.7 | 8.5 mm / Ø 12 mm | ± 250 mg |
| **10 kg** | 185 (centring step Ø 145) | 56.8 | 8.5 mm / Ø 12 mm | ± 500 mg |
| **Hanger 200 g** | Rod with hook and base disc, carries all weights of the set | | | – |

## Material and design

| Parameter | Specification |
|---|---|
| **Material** | Stainless steel |
| **Shape** | Cylindrical slotted disc weights |
| **Slot width** | 8.5 mm, with central bore Ø 12 mm |
| **Adjustment** | Adjusting cavity in each weight |
| **10 kg weight** | Centring step Ø 145 mm on the underside |
| **Reference standard** | OIML R111-1, accuracy class M1 |

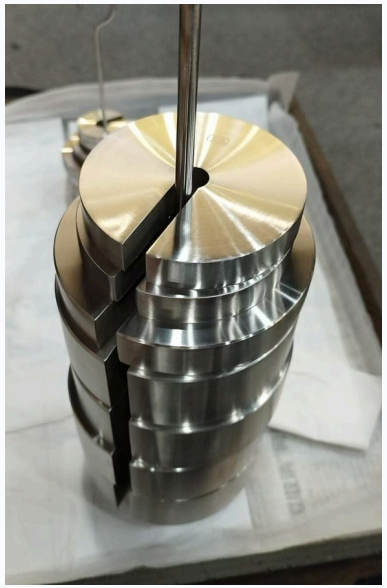
Dimensions are nominal values. Maximum permissible errors according to OIML R111-1 for class M1.

## Schematic




**Side view – set stacked on hanger** **Top view – slotted weight**

## Scope of Supply, Certificate and Use



Slotted weights stacked on the hanger | central load application

### Scope of supply

**Slotted weights:** 100 g, 200 g, 500 g, 1 kg, 2 kg, 5 kg and 10 kg, 1 pc each.

**Weight hanger:** 200 g, with hook.

**Calibration certificate:** optional, for all weights of the set and the hanger, class M1 according to OIML R111-1.

### Building test loads

**Start with the hanger:** the 200 g hanger is always part of the load.

**Add weights:** combine slotted weights to reach the required test point, e.g. 1.2 kg = hanger + 1 kg.

**Full load:** hanger + all seven weights = 19 kg.

**Ordering note:** Confirm whether a calibration certificate is required and the test points used in your procedure. Individual slotted weights, other nominal values and other accuracy classes are available on request.

## Handling and Use Notes

### Load application

**Hang freely:** let the loaded hanger hang without swinging before reading.

**Stack centrally:** largest weights at the bottom, smallest on top.

### Care

**Clean surfaces:** keep weights free of dust, oil and fingerprints.

**Handle with care:** use gloves and avoid impacts and scratches.

### Recalibration

**Interval:** define the recalibration interval in your quality system.

**Traceability:** keep the certificate with the set.

MANUFACTURER AND SUPPORT

## COLO Lab Experts

**Polje ob Sotli 4, SI-3255, Slovenia**

**Selection guidance:** Send the equipment to be checked, the required test points and maximum load, the accuracy class and whether a calibration certificate is required.

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**Set: slotted weights M1, 100 g - 10 kg**

COLO.SCIENCE | CALIBRATION WEIGHTS SUPPORT

## Need slotted weights for your test procedure?

Send the equipment type, test points, maximum load and documentation requirements. COLO.Science can confirm the suitable set, individual slotted weights, accuracy class and calibration certificate.

Open PDF | Request a quote | Weighing overview | Catalogue overview | M1 calibration weights

**Official configuration notice:** This document is provided for orientation and product selection. It does not replace the binding specification, delivered configuration or acceptance criteria confirmed in the official COLO.Science quotation, proforma invoice or order confirmation. Confirm the set content, accuracy class and calibration certificate for the specific order. Specifications may change without notice.