

MILIM PRODUCT PAGE

BALANCES OVERVIEW

BALANCES CATALOGUE

REQUEST QUOTE

MILIM Series

Milligram Balances | 0.001 g Readability | 100–500 g

MILIM milligram balances read to **0.001 g** across capacities from 100 g to 500 g. A high-precision load cell, a glass draft shield, a backlit LCD and external calibration give the same three-decimal resolution on every model, so the choice between them is a capacity decision rather than a performance one. Selectable g, oz and ct units, check weighing and piece counting cover laboratory, jewellery and gemstone work on the same bench.

MILIM100

MILIM200

MILIM300

MILIM500

0.001 g readability

Draft shield

g / oz / ct

Typical applications: weighing of small samples and reagents, formulation and dosing work, gemstone and precious metal weighing in carats, incoming inspection of small components, piece counting of light parts, education and research benches.

Document type: Technical Specification Sheet

Product family: MILIM Milligram Balance Series

Models / SKU: MILIM100 PRO7096 · MILIM200 PRO7097 · MILIM300 PRO5142 · MILIM500 PRO7086

Format: A4 landscape | COLO.Science TechSpec v1.1

COLA
lab experts



READABILITY

0.001 g

CAPACITY

100–500 g

CONTACT

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Three decimal places across the full 100–500 g capacity range

Series overview

Weighing performance

- **0.001 g readability** on every model of the series.
- Repeatability ± 0.002 g, linearity ± 0.002 g.
- Stabilisation time **1.5 s**.
- High-precision load cell with overload protection.

Draft shield & weighing chamber

- **Glass draft shield** with a sliding side door for access.
- Round **stainless steel pan**, 120 mm diameter.
- Height-adjustable feet for levelling on the bench.
- **Below-balance weighing** position; under-hook available as an option.

Operation & functions

- **Full-capacity tare** subtraction over the whole range.
- Check weighing and **piece counting**.
- Selectable units: **g, oz, ct**.
- Simple **five-key panel**; external calibration with a control weight.

Display, data & power

- Super-bright **LCD with backlight**.
- **RS232** connector for printer or PC.
- Mains adapter supplied as standard, AC 220–240 V.
- **4 × AAA batteries** as an alternative supply away from an outlet.

What distinguishes the MILIM models

The models differ in **maximum capacity only**. **MILIM100** covers 100 g for the smallest samples, where the full resolution is used over a short range; **MILIM200** covers 200 g; **MILIM300** covers 300 g for general small-sample work; **MILIM500** extends the same 0.001 g resolution to 500 g for heavier containers and larger preparations. Readability, repeatability, linearity, draft shield, pan size, display, calibration method, interface, housing and standard functions are **identical across the series** — see the model table. Choose the smallest capacity that still accepts the heaviest sample together with its container.

Model selection

Model / SKU	Maximum Capacity	Readability	Repeatability	Linearity	Pan Size	Calibration
MILIM100 PRO7096	100 g	0.001 g	±0.002 g	±0.002 g	Ø 120 mm	External
MILIM200 PRO7097	200 g	0.001 g	±0.002 g	±0.002 g	Ø 120 mm	External
MILIM300 PRO5142	300 g	0.001 g	±0.002 g	±0.002 g	Ø 120 mm	External
MILIM500 PRO7086	500 g	0.001 g	±0.002 g	±0.002 g	Ø 120 mm	External

Weighing & metrology

Readability	0.001 g (all models)
Repeatability	±0.002 g
Linearity	±0.002 g
Stabilisation time	1.5 s
Calibration	External, with control weight
Sensor	High-precision load cell, overload protection
Weighing pan	Stainless steel, Ø 120 mm
Draft shield	Glass, with sliding side door
Below-balance weighing	Provided; under-hook optional

Display, control & utilities

Display	LCD with backlight
Control panel	Five keys
Weighing functions	Full-capacity tare, check weighing, piece counting
Measuring units	g, oz, ct
Interface	RS232
Housing	Plastic housing, height-adjustable feet
Power supply	AC 220–240 V, mains adapter supplied; 4 × AAA batteries
Dimensions (L × W × H)	320 × 195 × 280 mm
Packing size / net / gross	375 × 255 × 340 mm · 3.0 kg / 4.0 kg

Standard delivery: balance of the ordered model, mains adapter and instruction manual. **A calibration weight is not part of the standard delivery** — the series uses external calibration, so an OIML F1 control weight matching the capacity is recommended with every balance; see the accessories page. Instrument calibration and/or issuance of a service/calibration certificate is billed separately, quoted on request.



Overall dimensions
320 × 195 × 280 mm

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Standard delivery and printing option

Standard delivery INCLUDED



MILIM balance as supplied
draft shield and pan fitted

Item	Qty	Detail
Milligram balance	1	Ordered model, draft shield and Ø 120 mm pan fitted
Mains adapter	1	AC 220–240 V; the balance also runs on 4 × AAA batteries
Instruction manual	1	Operating instructions, English

Thermal printer OPTION



Thermal printer
connects over RS232

Every MILIM model carries an **RS232 connector**, so results can be documented without a PC on the bench:

- Direct **printout of weighing results** for records and for attaching to worksheets.
- An **RS232 cable** matching the printer or the PC port is ordered with the printer.
- Communication software transfers readings to a PC where the data are processed further.
- State the intended use — printer, PC or both — so the cable and settings are supplied ready to work.

Calibration weights, data and documentation

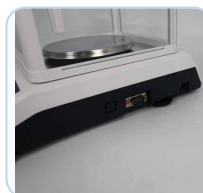
OIML F1 calibration weights OPTION



OIML F1 weights
sets 1 mg – 500 g

All MILIM models use **external calibration**. At 0.001 g readability the control weight class matters:

- **OIML F1** is the recommended class for this resolution; M1 weights are too coarse to verify a milligram balance.
- Available as **sets from 1 mg to 500 g** or as single weights of the required nominal value.
- Match the nominal value to the capacity of the ordered model.
- A **calibration certificate** for the weight can be supplied on request.



RS232 connector
rear panel

Data and documentation	Purpose / notes
RS232 cable	Connection of the balance to a printer or PC
Communication software	Transfer of readings to a PC for records and further processing
Under-hook for below-balance weighing	Weighing of suspended samples and density work
Certificate of calibration — weight	Documented traceability for the control weight
Certificate of calibration — balance	Documented calibration of the instrument, quoted separately

Ordering note: please state the instrument model (MILIM100 / MILIM200 / MILIM300 / MILIM500) when requesting accessories, so that the nominal value and class of the calibration weight, the printer and the cable can be matched to the capacity and to the intended use. Calibration and service/calibration certificates are quoted separately.

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MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: send the heaviest sample together with its container, whether results have to be printed or transferred to a PC, whether carat weighing or below-balance weighing is needed, and any calibration weight or certification requirement.

QUICK CONTACT

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Series: MILIM100 / MILIM200 / MILIM300 / MILIM500

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Not sure which capacity and which calibration weight you need?

Send the maximum load including the container, the type of samples, which units are used, whether check weighing or piece counting is needed, and any printing, data transfer or certification requirement. COLO.Science can confirm the model and the approved configuration.

MAIN BALANCE NAVIGATION

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Official configuration notice: This document is provided for orientation and model selection. It does not replace the binding specification, delivered configuration, validation protocol or acceptance criteria confirmed in the official COLO.Science quotation, proforma invoice, order confirmation or manufacturer-approved technical offer. Confirm the model, capacity, accessories, calibration weight and certification requirement for the specific order. Specifications may change without notice.