Mechanical Balances

LT-G4000 / LT-G4001 | Cent-O-Gram and Dial-O-Gram

No electrical supply • Magnetic damping • Removable pan



311 / 310 g

MAXIMUM CAPACITY BY MODEL

0.01 g

SCALE READABILITY

Lightweight specimens • Powders • General laboratory weighing

Photograph and Mechanical Components

Cent-O-Gram example: hanging pan, sliding poises and graduated beams

LT-G4000 Cent-O-Gram provides 311 g capacity; LT-G4001 Dial-O-Gram provides 310 g. Both operate without electricity and offer 0.01 g readability. The Cent-O-Gram photograph shows the beam and sliding-poise arrangement.

HANGING PAN

Position the specimen or vessel on the removable stainless steel pan.

SLIDING POISES

Move the poises along the beams to adjust the balance.

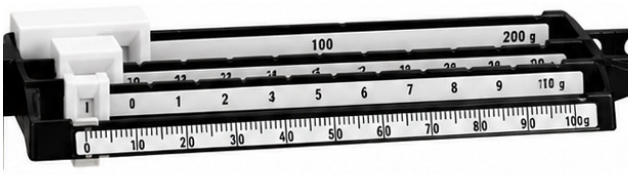


GRADUATED BEAMS

Read the mass values from the scales once equilibrium is reached.

SUPPORTING STRUCTURE

The metal base and support carry the mechanical weighing arrangement.



Graduated beams and sliding poises

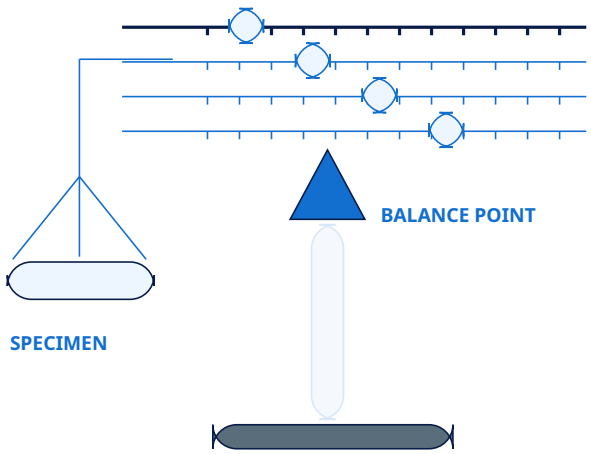


Removable stainless steel weighing pan

Mechanical Weighing by Beam Balance

Set zero • Load specimen • Balance • Read scale values

SPECIMEN + BEAM + SLIDING POISES



READ THE SCALES AT EQUILIBRIUM

ZERO ADJUSTMENT • POISES • BALANCE

BEAM VALUES + DIAL VALUE WHERE FITTED

Mass = Sum of the indicated values

REPRESENTATIVE WEIGHING DIAGRAM • NOT TO SCALE

Set the Zero Point

Check balance with the pan empty. Correct the starting position with the zero adjustment.

Load and Balance

Place the specimen on the pan. Adjust the sliding poises until equilibrium is reached.

Read and Record

Read the beam values at equilibrium. Add the fine dial value on the Dial-O-Gram model.

The mechanical balance opposes the specimen load through its beam and movable-poise system. Magnetic damping helps reduce oscillation. Mass is determined from readings at equilibrium; readability does not independently define measurement accuracy.

Cent-O-Gram and Dial-O-Gram

LT-G4000 Cent-O-Gram provides 311 g capacity and a beam arrangement with sliding poises. The operator combines the mass values from the beams.

LT-G4001 Dial-O-Gram provides 310 g capacity. A Vernier dial supports fine mass adjustment. Both models provide 0.01 g scale readability.

Pan, Zero and Reference Checks

The removable stainless steel pan measures approximately Ø89 × 13 mm. Keep it clean; ensure that it hangs freely without contact with surrounding surfaces.

Check empty-pan zero before weighing. Perform intermediate checks with suitable reference masses and reduce vibration and air-current effects.

Model Comparison and Common Features

Two mechanical models • Capacity, readability and pan arrangement

Product Code	Model	Capacity (g)	Readability (g)
LT-G4000	Cent-O-Gram	311	0.01
LT-G4001	Dial-O-Gram	310	0.01

Common Specification	Value / Description
Operation	Mechanical • No electrical supply required
Pan Material	Stainless steel
Pan Dimensions	Approximately Ø89 × 13 mm
Pan Type	Removable, hanging
Damping	Magnetic damping
Zero Setting	Mechanical zero adjustment
Beam Arrangement	Self-aligning beam design
Construction	Metal base and beam assembly

Check Capacity and Equilibrium Before Reading

Keep vessel and specimen load within model capacity. Adjust empty-pan zero; record readings after oscillation has reduced and equilibrium is reached.

From Empty Pan to Mechanical Weighing Result

01
Zero
Adjust empty-pan balance and zero.

02
Load
Place the vessel or specimen on the pan.

03
Balance
Adjust poises and the dial where fitted.

04
Read
Combine readings and record mass.

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