

Balance Section

Shop by Brand

Use the table of contents to locate your balance by brand. All balance brands are grouped together, making it easy to find a balance from your favorite manufacturer. Within each manufacturer's section, balances are organized by type, from portable and toploading balances to heavy-duty industrial scales.

Selection Guide

The following selection guide makes it easy to compare balances based on individual capacity, readability, brand name, and price. The guide is divided into categories based on balance type. For a complete description of each balance, refer to the page number given. Versions with a wide variety of options—including 220 VAC operation, internal calibration, NTEP-certification, and RS-232 capability—exist for many of the models listed in the tables. Please refer to the specified page for details.

Shop the Online Balance Store

Visit our new balance store at www.coleparmer.com/BalanceStore to easily find the right balance, calibration masses, and accessories for your particular application.



Parametric Search

Use our parametric search at www.coleparmer.com to shop for balances online by selecting your specific criteria.

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Use our Parametric Search to select balances with your specific criteria.



Common Balance Terms

Accuracy—The degree to which sample weight conforms to a standard (calibration mass). Accuracy is a function of reproducibility and linearity.

Animal weighing—Balance function that determines the weight of live animals by taking several readings and averaging them.

Auto zero tracking—Display automatically zeroes periodically to correct for slow drift.

Below-balance weighing—A hook or connection point on the bottom of the balance that suspends items for weighing.

Calibration mass—A mass meeting certain standards that is used to calibrate a balance to ensure accuracy.

Capacity—Maximum load a balance can weigh.

Checkweighing—A function that compares the current balance load to a predetermined mass and indicates the load as being below, above, or within an allowable range.

Digital filters—Filters reduce the influence of draft or vibration, enabling the balance to display a stable reading faster.

Fine range—A weighing range within the capacity of multi-range balances that has better readability.

Full-scale tare—Feature that allows rezeroing of the display to occur anywhere within the full capacity range of the balance. Note: The remaining capacity of the balance is equal to the total capacity minus the tare weight.

GLP/GMP printout capability—Program that provides a specific set of information on the balance and the sample weight, so as to conform to Good Laboratory/Manufacturing Practices.

Keypad calibration—Feature that lets you calibrate balance by placing a calibration mass on the pan and pressing a calibration key.

Linearity—Maximum amount a weight reading may deviate from a straight line between zero and the maximum capacity of the balance.

Magnetic damping—Feature of mechanical balances that reduces vibration, decreasing the time required to reach an accurate reading.

Mass unit conversion—Feature that lets you toggle between two or more weighing units.

Moisture determination—Balance function that calculates percent moisture by comparing initial sample weight to weight after drying.

Multi-range—Describes balances with both a coarse and a fine range; the fine range provides better readability at the low end of balance capacity.

Net total formulation—Balance function that automatically adds the individual weights of several components and displays the total.

Net weight—Weight of the load on the pan minus the container (tare) weight.

NTEP approved—A term that designates those balances having National Type Evaluation Program (NTEP) approved status for sale into legal-for-trade applications.

Parts counting—A weighing application that counts multiple items of the same mass by comparing them to a preset value based on a representative sample.

Percent weighing—Weighing application that uses a preset reference weight to equal 100%—the balance displays the sample weight in percent, relative to the reference value.

Repeatability—The degree of agreement between repeated measurements of the same mass, on the same balance, under the same conditions.

Readability—Smallest increment of weight a balance will display.

Tare weight—Weight of a container or package that should not be taken into account when weighing sample.