

# EJ NEWTON Series

## Compact Balances



**1mg Readability**

EJ-123

EJ-303



**10mg Readability**

EJ-120 EJ-410

EJ-200 EJ-610

EJ-300



**100mg Readability**

EJ-1500 EJ-4100

EJ-2000 EJ-6100

EJ-3000

**AND**

A&D Weighing

...Clearly a Better Value

# COMPACT BALANCES

## The EJ Newton Series

Two new models with 1 mg resolution joins the EJ family of compact balances. Affordable and built-to-last, EJ Series balances are used in many environments including:

Industrial  
Pharmacy  
Education

With thousands of balances in laboratories and production facilities around the world, the EJ Series has provided years of reliable weighing performance and are backed by A&D's industry-leading 5 year warranty.

| Readability | Capacity | Model   |
|-------------|----------|---------|
| 0.001 g     | 120 g    | EJ-123  |
|             | 310 g    | EJ-303  |
| 0.01 g      | 120 g    | EJ-120  |
|             | 210 g    | EJ-200  |
|             | 310 g    | EJ-300  |
|             | 410 g    | EJ-410  |
|             | 610 g    | EJ-610  |
| 0.1 g       | 1500 g   | EJ-1500 |
|             | 2100 g   | EJ-2000 |
|             | 3100 g   | EJ-3000 |
|             | 4100 g   | EJ-4100 |
|             | 6100 g   | EJ-6100 |

**NEW**

## Affordable Precision

Now students, researchers and industrial users have a convenient and affordable way to make milligram measurements.

The EJ-303 and EJ-123 have standard functions usually found in balances costing twice as much:

- Gravity correction
- Accumulation function
- GLP compliant output



Draft shield standard on EJ-123 and EJ-303

The EJ-303 and EJ-123 make milligram measurements as easy as, well, 1-2-3:

1. Plug-in and warm-up the balance.
2. Level the balance by adjusting the feet.
3. Start weighing.

## Options

### EJ-02 & EJ-02C



Quick USB interface. Option EJ-02C includes USB cable.

### EJ-03



RS-232C (serial) interface.

### EJ-07 & EJ-08



Underhook. EJ-07 for EJ-3000 to 6100. EJ-08 for EJ-1500, EJ-2000.

# EJ NEWTON SERIES

127 x 140 mm stainless steel weighing pan for EJ-1500 to EJ-6100.  
110 mm round pan for EJ-610 & below.



## EJ-11



Breeze break (draft shield) for all models except EJ-123 and EJ-303.

## EJ-12



Carrying case. All models except EJ-123 and EJ-303.

## EJ-13



Density determination kit for models EJ-120 to EJ-610.

# EJ NEWTON SERIES SPECIFICATIONS

| Model                                | EJ-123  | EJ-303      | EJ-120              | EJ-200     | EJ-300     | EJ-410     | EJ-610          | EJ-1500              | EJ-2000    | EJ-3000    | EJ-4100    | EJ-6100    |
|--------------------------------------|---|-------------|---------------------|------------|------------|------------|-----------------|----------------------|------------|------------|------------|------------|
| Weight capacity                      | 120 g   | 310 g       | 120 g               | 210 g      | 310 g      | 410 g      | 610 g           | 1500 g               | 2100 g     | 3100 g     | 4100 g     | 6100 g     |
| Readability                          | 0.001 g   | 0.001 g     | 0.01 g              | 0.01 g     | 0.01 g     | 0.01 g     | 0.01 g          | 0.1 g                | 0.1 g      | 0.1 g      | 0.1 g      | 0.1 g      |
| Repeatability (Std. deviation)       | 0.003 g   | 0.003 g     | 0.01 g              | 0.01 g     | 0.01 g     | 0.01 g     | 0.01 g          | 0.1 g                | 0.1 g      | 0.1 g      | 0.1 g      | 0.1 g      |
| Linearity                            | ±0.003 g  | ±0.003 g    | ±0.01 g             | ±0.01 g    | ±0.02 g    | ±0.02 g    | ±0.02 g         | ±0.1 g               | ±0.1 g     | ±0.2 g     | ±0.2 g     | ±0.2 g     |
| Sensitivity drift                    | ±20 ppm / °C (10°C-30°C / 50°F-86°F)                          |             |                     |            |            |            |                 |                      |            |            |            |            |
| No. of samples                       | 5, 10, 25, 50 or 100 pieces                                   |             |                     |            |            |            |                 |                      |            |            |            |            |
| Max. count                           | 120,000 pcs   | 310,000 pcs | 12,000 pcs          | 21,000 pcs | 31,000 pcs | 41,000 pcs | 61,000 pcs      | 15,000 pcs           | 21,000 pcs | 31,000 pcs | 41,000 pcs | 61,000 pcs |
| Min. unit weight                     | 0.001 g   | 0.001 g     | 0.01 g              | 0.01 g     |            |            | 0.01 g          | 0.1 g                |            |            |            |            |
| Min. % display                       | 0.01%   |             | 0.1%                |            |            |            |                 |                      |            |            |            |            |
| Min. 100% weight                     | 0.1 g   |             | 1 g                 |            |            |            |                 | 10 g                 |            |            |            |            |
| Display                              | 7 segment LCD display with backlight (Character height 16 mm) |             |                     |            |            |            |                 |                      |            |            |            |            |
| Display update                       | 10 times per second   |             |                     |            |            |            |                 |                      |            |            |            |            |
| Operating temp.                      | -10°C-40°C / 14°F-104°F, less than 85% R.H. (non-condensing)  |             |                     |            |            |            |                 |                      |            |            |            |            |
| Power supply                         | AC adapter (included) or 4 x "AA" size dry-cell batteries     |             |                     |            |            |            |                 |                      |            |            |            |            |
| Battery operation                    | Approximately 70 hours (backlight off, alkaline batteries)    |             |                     |            |            |            |                 |                      |            |            |            |            |
| Weighing pan size                    | 110 mm Ø  |             |                     |            |            |            | 127 mm x 140 mm |                      |            |            |            |            |
| Weight                               | Approximately 1160 g  |             | Approximately 850 g |            |            |            |                 | Approximately 1100 g |            |            |            |            |
| Calibration weight (factory setting) | 100 g   | 300 g       | 100 g               | 200 g      | 300 g      | 400 g      | 600 g           | 1500 g               | 2000 g     | 3000 g     | 4000 g     | 6000 g     |

Specifications subject to change without notice.

## Units of Measure

| Model | EJ-123       | EJ-303  | EJ-120   | EJ-200 | EJ-300  | EJ-410  | EJ-610  | EJ-1500 | EJ-2000 | EJ-3000 | EJ-4100 | EJ-6100 |         |
|-------|--------------|---------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| N     | Capacity     | 1.1768  | 3.0401   | 1.1768 | 2.0594  | 3.0401  | 4.0207  | 5.9821  | 14.710  | 20.594  | 30.401  | 40.207  | 59.821  |
|       | Min. display | 0.0001  | 0.0001   | 0.01   | 0.01    | 0.01    | 0.01    | 0.01    | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     |
| oz    | Capacity     | 4.233   | 10.935   | 4.233  | 7.408   | 10.935  | 14.462  | 21.517  | 52.91   | 74.08   | 109.35  | 144.62  | 215.17  |
|       | Min. display | 0.0001  | 0.0001   | 0.001  | 0.001   | 0.001   | 0.001   | 0.001   | 0.01    | 0.01    | 0.01    | 0.01    | 0.01    |
| lb    | Capacity     | -       | -        | 0.246  | 0.4630  | 0.6834  | 0.9039  | 1.3448  | 3.307   | 4.630   | 6.834   | 9.039   | 13.448  |
|       | Min. display | -       | -        | 0.0001 | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.001   | 0.001   | 0.001   | 0.001   | 0.001   |
| ozt   | Capacity     | 3.858   | 9.967    | 3.858  | 6.752   | 9.967   | 13.182  | 19.612  | 48.23   | 67.52   | 99.67   | 131.82  | 196.12  |
|       | Min. display | 0.0001  | 0.0001   | 0.001  | 0.001   | 0.001   | 0.001   | 0.001   | 0.01    | 0.01    | 0.01    | 0.01    | 0.01    |
| ct    | Capacity     | 600.000 | 1500.000 | 600.00 | 1050.00 | 1550.00 | 2050.00 | 3050.00 | 7500.0  | 10500.0 | 15500.0 | 20500.0 | 30500.0 |
|       | Min. display | 0.005   | 0.005    | 0.05   | 0.05    | 0.05    | 0.05    | 0.05    | 0.5     | 0.5     | 0.5     | 0.5     | 0.5     |
| dwt   | Capacity     | 77.16   | 199.34   | 77.16  | 135.03  | 199.33  | 263.64  | 392.24  | 964.5   | 1350.3  | 1993.3  | 2636.4  | 3922.4  |
|       | Min. display | 0.001   | 0.001    | 0.01   | 0.01    | 0.01    | 0.01    | 0.01    | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     |
| GN    | Capacity     | 1851.8  | 4784.04  | 1851.8 | 3240.8  | 4784.0  | 6327.2  | 9413.8  | 23148   | 32408   | 47840   | 63272   | 94138   |
|       | Min. display | 0.02    | 0.02     | 0.2    | 0.2     | 0.2     | 0.2     | 0.2     | 2       | 2       | 2       | 2       | 2       |

Specifications subject to change without notice.

## Options

|               |  |
|---------------|--|
| <b>EJ-02C</b> | USB interface with cable   |
| <b>EJ-03</b>  | RS-232C interface  |
| <b>EJ-07</b>  | Underhook for EJ-3000 to EJ-6100                                     |
| <b>EJ-08</b>  | Underhook for EJ-1500, EJ-2000                                       |
| <b>EJ-11</b>  | Breeze break (Draft Shield)  |
| <b>EJ-12</b>  | Carrying case (except for EJ-123/EJ-303)                             |
| <b>EJ-13</b>  | Density determination kit for EJ-120/<br>EJ-200/EJ-300/EJ-410/EJ-610 |

## Accessories

|                |                                |
|----------------|--------------------------------|
| <b>TB:163C</b> | AC adapter 120V (Replacement)  |
| <b>TB:164</b>  | AC adapter 240V (Round prongs) |



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