

MB / QB / IB

PRECISION BALANCES



RICE LAKE WEIGHING SYSTEMS

Rice Lake Balances... The **New Standard** in Speed, Precision and Durability

Rice Lake balances have earned a reputation for delivering critical performance in laboratory, academic and industrial applications. All models are easy to operate and offer a variety of capacities and functions to meet diverse weighing requirements. Their success is largely attributed to a revolutionary sensor: the double-ended tuning fork. Combine this advanced technology with few moving parts and reinforced overload stops, and you'll see how Rice Lake balances have raised the industry standard for speed, precision, and durability.



The Advantages of Double-Ended Tuning Fork TECHNOLOGY



No Warm-Up Period

Rice Lake balances are instantly ready to work. Simply switch on the power and in two seconds the balance is fully operational. In addition, the display response speed is virtually instantaneous—less than one second.

Precision Performance

The tuning fork's alloy construction provides superior heat capacity and conductivity. These characteristics provide long-term stability, unlike models that have to compensate for temperature variations caused by A/D converters, analog circuits or ambient temperature changes. The tuning fork measures force by reading changes in resonant frequency, significantly increasing accuracy and repeatability.

Tuning Fork Toughness

Rice Lake balances are constructed with few moving parts, making them virtually immune to metal fatigue that can degrade the performance of conventional balances. Their rugged durability is enhanced by reinforced overload stops, allowing them to handle maximum loads. What's more, the absence of an internal magnetic coil enables them to remain virtually free from the damaging effects of dust, extending balance life. These components give us the confidence to back Rice Lake series balances with an industry-leading 5 year warranty.

5
YEAR
WARRANTY

MB

So Accurate. The MB series combines easy operation and precision performance into an economical balance. From the classroom to the laboratory, advantages such as a durable structure and high-contrast LCD assist operators in consistently obtaining accurate data. Available in eight different models up to 6000g, additional features include pushbutton unit conversion and accumulative tare for recipe formulation. What's more, the MB series' compact design allows it to fit nicely into a briefcase or tool kit.



Applications

- Classroom laboratory
- Blood banks
- Food service portion control
- Recipe and chemical formulation
- Forensic analysis
- Crime scene analysis



QB

So Analytical. The QB series is the quintessential analytical toploader designed for a wide range of laboratory applications. Available in 10 different models, it features sturdy metal housing and a large weighing pan to accommodate solids and liquids up to 12,000g. The QB series also includes built-in counting and checkweighing functions.



Applications

- Microbiology
- Tissue culture
- Precious metals
- Forensic evidence
- Inks, dyes and paints
- Sample prep
- Blood banks
- Counting and checkweighing
- Recipe formulation



IB

So Strong. The IB series' unique design blends the precision of a laboratory balance with larger capacities typical of an industrial unit. Choose from five different models ranging in capacity from 1000g to 15,000g. A vibrant VFD display is easy to read in light or dark settings, and the IB's rugged metal housing stands up to demanding environments. In addition, pushbutton unit selection and built-in functions such as percent weighing, counting, accumulation, and classification provide true flexibility.



Applications

- Asphalt/concrete analysis
- Soil analysis
- Microbiology
- Tissue culture
- Precious metals
- Forensic evidence
- Blood banks
- Inks, dyes and paints
- Counting and checkweighing



Options & Accessories

To simplify your process and satisfy special requirements, Rice Lake balances are available with a variety of options and accessories.

- Breeze shield (fits round pan models)
- RS-232 output
- Internal rechargeable battery
- 230 VAC adapter
- Carrying case (MB)
- Limit output pack (QB and IB)



Data collection and management are simplified with optional RS-232 serial output to connect to a printer, programmable indicator or PC.



Standard Features

- Large 0.64" 6 digit LCD
- Automatic zero tracking
- Three units of measure
- 115 VAC adapter



MB series

	MB-150S	MB-150E	MB-300E	MB-600P	MB-1500S	MB-1500E	MB-3000E	MB-6000P
Capacity/Readability (grams):	150 x 0.001	150 x 0.01	300 x 0.01	600 x 0.01	1500 x 0.01	1500 x 0.1	3000 x 0.1	6000 x 0.1
Dimensions:	7.0" W x 8.9" D (180mm W x 230mm D)							
Units:	g, ct, oz (lb available on models over 3000 grams)							
Scale Tare Range:	1.5% to full scale							
Admissible RH%:	80% (max.)							
Ambient Temperature:	32°F to 104°F (0° to 40°C)							
Calibration:	External calibration with reference weight							
Sensitivity Drift:	± 8g							
Pan Size:	4.3" (dia.)	5.5" (dia.)	5.5" (dia.)	5.5" (dia.)	5.5" (dia.)	6.7" x 5.6"	6.7" x 5.6"	6.7" x 5.6"
Repeatability/Std. Dev.:	± 0.003g	± 0.01	± 0.01	± 0.02	± 0.003	± 0.1	± 0.1	± 0.2
Linearity:	± 0.005	± 0.01	± 0.01	± 0.02	± 0.005	± 0.1	± 0.1	± 0.2
% Minimum Division:	0.25	0.05	0.1	0.2	0.25	0.25	0.1	0.2
Calibration Mass:								
Recommended ASTM Class 4	150g	150g	300g	600g	1500g	1500g	3000g	6000g



Standard Features

- Large 0.5" 6 digit LCD
- Automatic zero tracking
- 12 units of measure
- 115 VAC adapter
- Counting and checkweighing modes
- In-use cover



QB series

	QB-150E	QB-300E	QB-600E	QB-620E	QB-1500E	QB-3000E	QB-3000S	QB-6200E	QB-6000E	QB-12KE
Capacity/Readability (grams):	150 x 0.01	300 x 0.01	600 x 0.02	620 x 0.01	1500 x 0.1	3000 x 0.1	3000 x 0.01	6200 x 0.1	6000 x 0.2	12,000 x 1
Dimensions:	8.1" W x 12.2" D (208mm W x 310mm D)									
Units:	g, kg, ct, oz, lb, ozt, dwt, GN, tl (Hong Kong, Chinese, Taiwan), mom									
Scale Tare Range:	1.5% to full scale									
Display Refresh:	Five-level selectable									
Admissible RH%:	80% (max.)									
Ambient Temperature:	32°F to 104°F (0° to 40°C)									
Calibration:	External calibration with reference weight									
Sensitivity Drift:	±10	±10	±10	±10	±10	±10	±5	±8	±8	±8
Pan size:	5.5" (dia.)	5.5" (dia.)	5.5" (dia.)	5.5" (dia.)	7.5" x 7.5"	7.5" x 7.5"	7.5" x 7.5"	7.5" x 7.5"	7.5" x 7.5"	7.5" x 7.5"
Repeatability/Std. Dev.:	±0.01	±0.01	±0.02	±0.01	±0.1	±0.1	±0.04	±0.1	±0.2	±1.0
Linearity:	±0.01	±0.01	±0.02	±0.01	±0.1	±0.1	±0.06	±0.1	±0.2	±1.0
% Minimum Division:	0.025	0.05	0.05	0.1	0.025	0.05	0.25	0.1	0.25	0.25
Calibration Mass:										
Recommended ASTM Class 4	150g	300g	600g	620g	1500g	3000g	3000g	6200g	6000g	12,000g



Standard Features

- Large 0.5" 6 digit VFD
- Automatic zero tracking
- 13 units of measure
- 115 VAC adapter
- Unit toggle
- Below balance weighing
- Counting and checkweighing modes
- In-use cover



IB series

	IB-1000	IB-2000	IB-5000G	IB-10K	IB-15K
Capacity/Readability (grams):	1000 x 0.005	2000 x 0.01	5000 x 0.01	10,000 x 0.05	15,000 x 0.1
Dimensions:	8.2" W x 12.2" D x 3.9" H (208mm W x 310mm D x 100mm H)				
Units:	g, mg, kg, ct, oz, lb, ozt, dwt, GN, tl (Hong Kong, Taiwan, Chinese), mom				
Scale Tare Range:	1.5% to full scale				
Admissible RH%:	80% (max.)				
Ambient Temperature:	32°F to 104°F (0° to 40°C)				
Calibration:	External calibration with reference weight				
Sensitivity Drift:	±6				
Pan Size:	6.6" (dia.)	6.6" (dia.)	7" x 8.5"	7" x 8.5"	7" x 8.5"
Repeatability/Std. Dev.:	±0.005g	±0.01g	±0.02g	±0.05g	±0.1
Linearity:	±0.01	±0.02	±0.04	±0.1	±0.2
% Minimum Division:	0.17	0.17	0.42	0.17	0.25
Calibration Mass:					
Recommended ASTM Class 4	1000g	2000g	5000g	10,000g	15,000g

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