

## Specifications

\*AJ-\*\*\*CE stands for EC approved model.

| Model            | AJ-220E<br>AJ-220CE                                                                            | AJ-320E<br>AJ-320CE | AJ-420E<br>AJ-420CE | AJ-620E<br>AJ-620CE | AJ-820E<br>AJ-820CE | AJ-1200E<br>AJ-1200CE | AJ-2200E<br>AJ-2200CE | AJ-3200E<br>AJ-3200CE | AJ-4200E<br>AJ-4200CE | AJ-6200E<br>AJ-6200CE | AJ-8200E<br>AJ-8200CE | AJ-12KE<br>AJ-12KE |
|------------------|------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| Capacity         | 220g                                                                                           | 320g                | 420g                | 620g                | 820g                | 1200g                 | 2200g                 | 3200g                 | 4200g                 | 6200g                 | 8200g                 | 12000g             |
| Readability      | 0.001g                                                                                         | 0.001g              | 0.001g              | 0.001g              | 0.01g               | 0.01g                 | 0.01g                 | 0.01g                 | 0.01g                 | 0.01g                 | 0.1g                  | 0.1g               |
| Repeatability *1 | 0.001g                                                                                         | 0.001g              | 0.001g              | 0.001g              | 0.01g               | 0.01g                 | 0.01g                 | 0.01g                 | 0.01g                 | 0.01g                 | 0.1g                  | 0.1g               |
| Non-Linearity *2 | ±0.001g                                                                                        | ±0.001g             | ±0.001g             | ±0.002g             | ±0.01g              | ±0.01g                | ±0.01g                | ±0.01g                | ±0.01g                | ±0.02g                | ±0.1g                 | ±0.1g              |
| Pan size         | Ø118mm                                                                                         |                     |                     | 170×142mm           |                     |                       | 180×160mm             |                       |                       |                       |                       |                    |
| Calibration      | with external calibration weight                                                               |                     |                     |                     |                     |                       |                       |                       |                       |                       |                       |                    |
| Weight units *3  | g, ct, oz, lb, ozt, dwt, GN tl (Hong Kong), tl (Taiwan), tl (Singapore, Malaysia), momme, tola |                     |                     |                     |                     |                       |                       |                       |                       |                       |                       |                    |
| Dimensions(LWH)  | 235×182×170mm(including windshield)                                                            |                     |                     |                     | 235×182×75mm        |                       |                       | 265×192×87mm          |                       |                       |                       |                    |
| Weights          | Approx. 1.3kg                                                                                  |                     |                     |                     |                     |                       | Approx. 2.8kg         |                       |                       |                       |                       |                    |

| Model            | AJH-220E<br>AJH-220CE                                                                          | AJH-320E<br>AJH-320CE | AJH-420E<br>AJH-420CE | AJH-620E<br>AJH-620CE | AJH-2200E<br>AJH-2200CE | AJH-3200E<br>AJH-3200CE | AJH-4200E<br>AJH-4200CE |
|------------------|------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|
| Capacity         | 220g                                                                                           | 320g                  | 420g                  | 620g                  | 2200g                   | 3200g                   | 4200g                   |
| Readability      | 0.001g                                                                                         | 0.001g                | 0.001g                | 0.001g                | 0.01g                   | 0.01g                   | 0.01g                   |
| Repeatability *1 | 0.001g                                                                                         | 0.001g                | 0.001g                | 0.001g                | 0.01g                   | 0.01g                   | 0.01g                   |
| Non-Linearity *2 | ±0.001g                                                                                        | ±0.001g               | ±0.001g               | ±0.002g               | ±0.01g                  | ±0.01g                  | ±0.01g                  |
| Pan size         | Ø118mm                                                                                         |                       |                       |                       | 180×160mm               |                         |                         |
| Calibration      | with built-in weight                                                                           |                       |                       |                       |                         |                         |                         |
| Weight units *3  | g, ct, oz, lb, ozt, dwt, GN tl (Hong Kong), tl (Taiwan), tl (Singapore, Malaysia), momme, tola |                       |                       |                       |                         |                         |                         |
| Dimensions(LWH)  | 235×182×170mm(including windshield)                                                            |                       |                       |                       | 265×192×87mm            |                         |                         |
| Weights          | Approx. 1.6kg                                                                                  |                       |                       |                       | Approx. 3.7kg           |                         |                         |

\*1 standard deviation \*2 typical value \*3 only g, kg & ct are available in CE models.

■e=d only for AJ-820CE. e=10d for other CE models

### Options

|         |                                     |
|---------|-------------------------------------|
| AJBT(S) | Rechargeable battery for 220g-1200g |
| AJBT(M) | Rechargeable battery for 2200g-12kg |
| AJUH(S) | Under weighing hook for 220g-1200g  |
| AJUH(M) | Under weighing hook for 2200g-12kg  |
| AJDK    | Density Measurement kit (220g-620g) |

\*24-hour continuous operation with AJBT

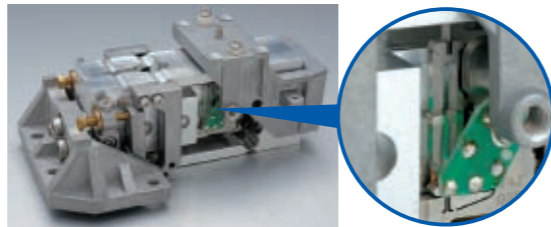
### Common Specification

|                  |                                       |
|------------------|---------------------------------------|
| Measuring system | : Tuning-fork frequency sensing       |
| Tare             | : Full weighing range                 |
| Display          | : LCD with back-light (height 16.5mm) |
| Power source     | : AC120/230V DC9V                     |
| Output           | : RS232C(standard)                    |

### What makes the tuning-fork sensor so precise?

The tuning-fork sensor measures force or mass by gauging changes in oscillation frequency when a load is applied to a long, narrow vibrator, and it digitally outputs the readings.

Unlike load cell or electromagnetic systems, the tuning-fork sensor does not rely on material distortion, electromagnetic force, heavy power consumption, or A/D converters, so its inherent margin of error is extremely small, and its high precision can be maintained for a long time.



Double-Ended tuning fork (DETf) vibrator

### Dimensions

|                                                                                  |  |
|----------------------------------------------------------------------------------|--|
| ■AJ(H)-220(C)E<br>AJ(H)-320(C)E<br>AJ(H)-420(C)E<br>AJ(H)-620(C)E                |  |
| ■AJ-820(C)E<br>AJ-1200(C)E                                                       |  |
| ■AJ(H)-2200(C)E<br>AJ(H)-3200(C)E<br>AJ(H)-4200(C)E<br>AJ-6200(C)E<br>AJ-12K(C)E |  |

The contents of this catalogue are subject to change due to modifications and/or other reasons.

## SHINKO DENSHI CO., LTD.

SHINKO DENSHI CO., LTD.  
3-9-11 YUSHIMA, BUNKYO-KU, TOKYO 113-0034  
TEL : 81-3-3835-4577 FAX : 81-3-5818-6066  
URL : <http://www.vibra.co.jp/global/>  
E-mail : [shinko@vibra.co.jp](mailto:shinko@vibra.co.jp)

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Simple but Profound

Vast potential in the Compact Housing

For laboratory, factory, jewelry shops, etc...

Quick response and stable indication

SHINKO DENSHI CO., LTD.

# PRECISION TUNING-FORK BALANCES

# AJ Series



## SIMPLE IS THE BEST.

This is the basic concept of ViBRA AJ series. Simple, but profound scope for wide measurement fields. Laboratory,

factory, jewelry shops, etc... ViBRA AJ series is always the simplest & the best solution for your needs.

|                                                                                                                                                                                                                          |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <p><b>Counting</b></p>                                                                                                                                                                                                   | <p><b>Percent</b></p> |
| <p>ViBRA AJ series provides four weighing modes, simple weight measurement, parts counting, percentage weighing and carat measurement for jewelers. You can easily switch the weighing mode by pushing function key.</p> |                       |
| <p><b>Weight</b></p>                                                                                                                                                                                                     | <p><b>Carat</b></p>   |

## Blight, White Back-light

Large LCD (16.5mm height) with blight & white back-light makes the weighing operation easy and comfortable even in the dark location.



## Quick Response & Stable Indication

Quick response and stable indication are important feature in the precise weight measurement. The innovative tuning-fork sensor in ViBRA AJ series meets this demand and satisfies you.



## Keep the Weighing Accuracy

The model with name AJ"H" has semi-automatic built-in calibration weight. You can easily calibrate the balance with built-in weight. It ensures the accurate and precise weighing operation.



## Compact Housing, High Portability

The compact housing is one of the advantages of ViBRA AJ series. The space-saving design enables you to instal it even in small space. Furthermore you can bring it everywhere you want with optional rechargeable battery.



## Draft Windshield as Standard

The draft windshield is available as standard for 220g-620g capacity models. It realizes the ideal environment for precise weighing. It can be easily assembled by hands.



## Density Measurement Kit Option

The density measurement kit can be available as option \*no program to automatically calculate the density is installed in ViBRA AJ series. Just the kit as option.



## Connection with Outside Devices

RS232C interface is installed as standard feature in every models of ViBRA AJ series. You can connect the balance to outside devices like PC.

