

AQUAVERITY-GEN4

Volumetric Calibration Machine

Precision | Automation | Reliability



✓ Available Models

- ✓ AQUAVERITY 5 ml to 250 ml
- ✓ AQUAVERITY 25 ml 1000 ml
- ✓ AQUAVERITY 100 ml 2000 ml

◆ Machine Overview

This advanced Volumetric Calibration Machine is designed for high-precision calibration of volumetric glassware such as flasks and measuring cylinders. The system automatically determines volume based on gravimetric principles, ensuring compliance with international standards.

With water temperature sensing, automated data logging, and precision marking control, the machine delivers accurate, repeatable, and traceable calibration results.

✓ Standards Compliance

Calibration of Volumetric Flasks (Class A & Class B)

- ✓ ASTM E288
- ✓ ISO 1042
- ✓ GB/T 12806

Calibration of Measuring Cylinders (Class A & Class B)

- ✓ ASTM E1272
- ✓ ISO 4788
- ✓ GB/T 12893

Calibration methodology based on:

- ✓ ISO 4787 (Gravimetric Method)



✓ Advantages

- ✓ High accuracy & repeatability
- ✓ High Production Rate
- ✓ Eliminates manual calculation errors
- ✓ Ensures standard compliance
- ✓ Full digital traceability
- ✓ User-friendly interface

Volumetric Calibration Machine

✓ Key Features



Designed for continuous operation (24×7 production).



The machine is equipped with two alternating working stations



A single operator can efficiently manage both stations



The machine offers the following three marking provisions:

- ✓ Scratch Mark
- ✓ Color Mark
- ✓ Pen Mark



Distilled or deionized water complying with ISO 3696 should be used for testing



Equipped with 2 Vision Camera Systems for enhanced accuracy



Integrated Electrical Panel for compact design



Internet-enabled control system for remote diagnostics and support



Water temperature sensors for automatic correction in calculations



Integrated weighing balance (automatic data acquisition)



Fully automatic calibration process



High Speed motors for faster operation with more accuracy.



Automatic storage of Data (water weight in gm, water temperature reading of each part) in excel format will be provided.



PRODUCTION SPEED

VOLUMETRIC FLASK	PRODUCTION SPEED
✓ 5ML	175 PC/HR
✓ 10ML	170 PC/HR
✓ 50ML	155 PC/HR
✓ 100ML	135 PC/HR
✓ 250ML	100 PC/HR



Contact Information

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