

ADVANCED VOLUMETRIC CALIBRATION MACHINE GENERATION 5

Precision | Automation | Reliability



RANGE

5ML TO 2000ML VOLUMETRIC
FLASKS AND MEASURING
CYLINDERS



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.

This Generation 5 Volumetric Calibration machine also supports recalibration feature, allowing operator to recalibrate Volumetric Flask & Measuring Cylinder, even after it has been marked.



ADVANTAGES:

- 1 Recalibration Feature
- 2 Fast Speed and Higher Production Rate
- 3 Machine automatically puts flask/cylinder to Weighing Balance
- 4 Machine automatically tares empty flask & gets reading of filled flask
- 5 High Accuracy & Repeatability
- 6 Eliminates manual calculation errors
- 7 Ensures standard compliance
- 8 Full digital traceability
- 9 User-friendly interface



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)



Advanced Volumetric Calibration Machine Generation 5



KEY FEATURES:



Designed for continuous operation (24x7 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:

- a) Scratch Mark
- b) Color Mark
- c) 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 & support



Water temperature sensors, Air temperature sensors & Humidity sensors for automatic correction in calculations



Integrated weighing balance (automatic data acquisitions)



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.



Option of QR Code/Bar Code Reader

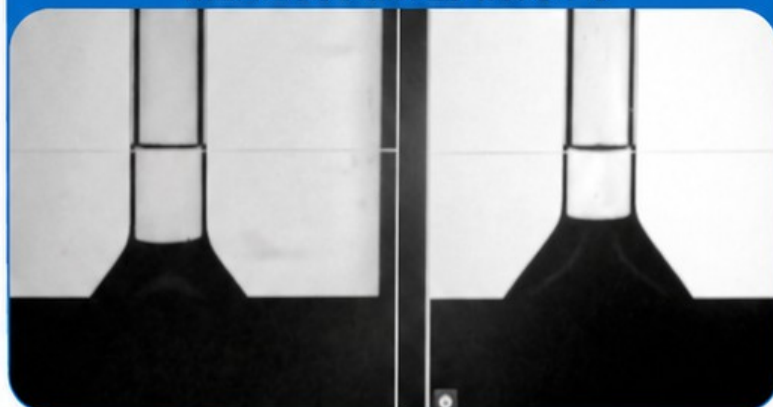


CONTACT INFORMATION

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MENISCUS SAVED INTO PC



PRODUCTION SPEED CHARTS:

Class A Volumetric Flask (Automatic Individual readings save in excel file)

VOLUMETRIC FLASK	PRODUCTION SPEED
Upto 50ml	210 pc/hr
100ml	180 pc/hr
250ml	140 pc/hr
500ml	100 pc/hr
1000ml	80 pc/hr
2000ml	40 pc/hr

Class A Measuring Cylinder with 2 markings (Automatic Individual reading save in excel file)

MEASURING CYLINDER	PRODUCTION SPEED
Upto 50ml	150 pc/hr
100ml	120 pc/hr
250ml	90 pc/hr
500ml	80 pc/hr
1000ml	65 pc/hr
2000ml	35 pc/hr



Batch mode (without weighing each part) will have higher speeds than mentioned above.



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