

Liquidhine 4.0



LiquidLine 4,0

AUTOMATIC CAPACITY/VOLUME MEASUREMENT FOR GLASS CONTAINERS

- Different Articles can be measured in sequence
- No tooling changeover between article types required
- 5 measurement modes

- Product handling by robot
- Easy to use Calibration & Verification routines
- Anti collision sensor

FLEXIBILITY

- Round & Non Round
- Bottles & Jars
- Mixed job lot

CONFIGURATION

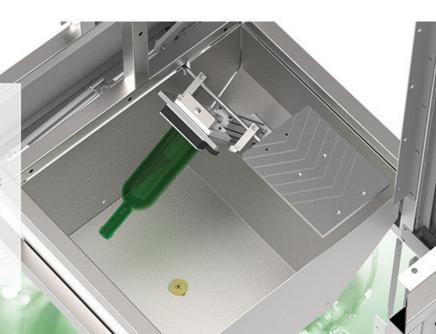
- Semi Automatic
 - after loading by hand the container is tested automatically
- Full Automatic
 - Loads & measures up to 1 SET of containers automatically

16

16 - 80

Environment Friendly

All water used is recycled back to the reservoir. Not only is this beneficial to the environment but it also improves measurement accuracy & repeatability by maintaining temperature stability and reducing aeration.



TECHNICAL INFORMATION

1. OPERATION:

Bottles or jars are placed on the In Feed conveyor, either a Mould Set or a mix of articles. From the HMI the user selects the Measurement Profile and number of bottles. The Liquidlink 4.0 will automatically measure volume in each of the articles without operator intervention. As each bottle or jar is complete the water is emptied back to the reservoir and the results uploaded to customers supervisor software.

2. ACCURACY & REPEATABILITY:

Accuracy & repeatiability of better than +/-0.5ml are achievable. By using accurate fill height sensing coupled with precision control of the fixed volume cylinder the Liquidlink 4.0 is equal or better than the traditional manual method.

3. SUMMARY OF TECHNICAL SPECIFICATION:

Accuracy:	< +/-0.5ml
Bottles & Jars (mm):	
Container height	Min: 60 Max: 400
Gripping diameter:	······· Min: 16 Max: 80
Container diameter:	Min: 40 Max: 150
Internal neck finish:	Min: 16
Max fill level:	100mm
Verification:	Accuracy easily verified by user
Calibration:	Easily calibrated by user
Water recycling:	Yes, 100% back to reservoir
Reservoir volume:	40L
Water quality:	Town water<250 ppm Calcium
Remote diagnostics:	Yes (Requires connection to network port with Internet R45)
HMI Language:	English, German, Spanish, Portuguese, Italian
	Ethernet TPC/IP Socket Connection
User Interface:	
Profile Storage:	······· Unlimited
Dimensions:	
Net weight:	280Kg's
Compressed air:	5 BAR (Full Automatic only)
Electrical Power:	Single Phase 110V/230V 50/60Hz 13

4: CALIBRATION:

The Liquidlink 4.0 incorporates an easy to use Calibration routine for both Volume and Bottle Height Sensor. A linear 2 point Callibration is performed using and externally calibrated scales/balance as a reference. Functionality also includes a Verification routine which can easily be performed on a periodic basis to monitor performance of Liquidlink 4.0.

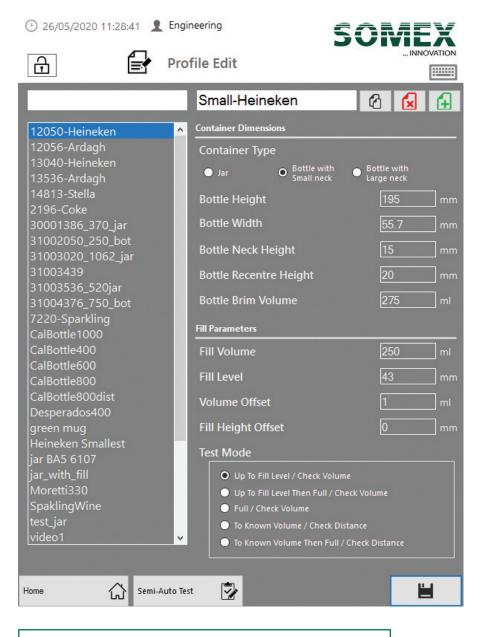
5. CREATING A MEASUREMENT PROFILE:

Creating a Profile requires just 8 inputs. The Profile is then saved to machine memory for easy reload.

6. MEASUREMENT MODES:

7. FLEXIBILITY

A series of different Articles can be tested sequentially by merely inputting quantity of bottles tested and selecting the Measurement Profile to be used with each Article.



- Fill Height
- Fill Vol. measure height
- Brim Full
- Fill Vol./ Brim Vol. measure height
- Fill Height & Brim Full

