

The World's Premier Manufacturer of Round Wipes Downstream Equipment



Israel
Shemesh Automation Israel
Contact: Mr. Ofer Ben Yishay
Tel.: +972 3 550 9946
ofer.b@shemeshautomation.com

United Kingdom
Shemesh Automation UK
Contact: Mr. Gary Wilson
Tel.: +44 207 887 6004
gary.w@shemeshautomation.com

Contact: Mr. Stuart Jones
Tel.: +44 207 887 6004
stuart.j@shemeshautomation.com

France
Shemesh Automation France
Contact: Ms Nelly Desbiens
Tel.: +33 (0)6 1521 0409
nelly.d@shemeshautomation.com

North America
Shemesh Automation NA
Contact: Mr. Jay Roth
Tel.: +1 717 637 5991
jay.r@shemeshautomation.com

Asia (ex Japan & Indonesia)
Shemesh Automation Asia
Contact: Mr. Charles Yip
Tel.: +852 28909218
charles.y@shemeshautomation.com

Japan & Indonesia
Shemesh Automation Japan & Indonesia
Contact: Mr. Kentaro Taguchi
Tel.: +81 (0)3 3278 6122
kentaro.t@shemeshautomation.com

Australia & New Zealand
Shemesh Automation Australia
Contact: Mr. Jim Simpson
Tel.: +61 447 676 121
jim.s@shemeshautomation.com

Latin America
Shemesh Automation LATAM
Contact: Mr. Ricardo Leon
Tel.: +57 1 812 9891
ricardo.l@shemeshautomation.com

Global Sales
Shemesh Automation
Contact: Mr. Shai Shemesh
Tel.: +44 207 887 6004
shai.s@shemeshautomation.com

FGW120

The world's most advanced round wipes wetting and portioning machine

The FGW is a gear pump equipped, linear dosing & filling machine built specifically for the wetting process of nonwoven rolls in canisters. The FGW series is easily adjusted to fill various volumes with a high range of viscosities. It has proprietary screwless showerhead nozzles with no-drip, no overflow engineering to achieve a truly homogenous and effective liquid absorption. Each FGW gear pump has an encoder and filling tolerance that is only 0.25%(!) of volume. The FGW is fully controlled from the HMI touch screen. It has flush, semi automatic and fully automatic modes.



Quick Fact Sheet:

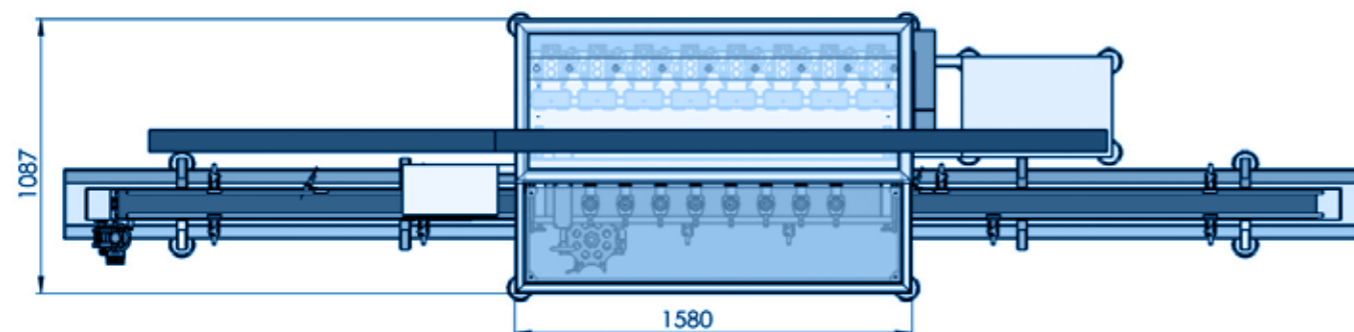
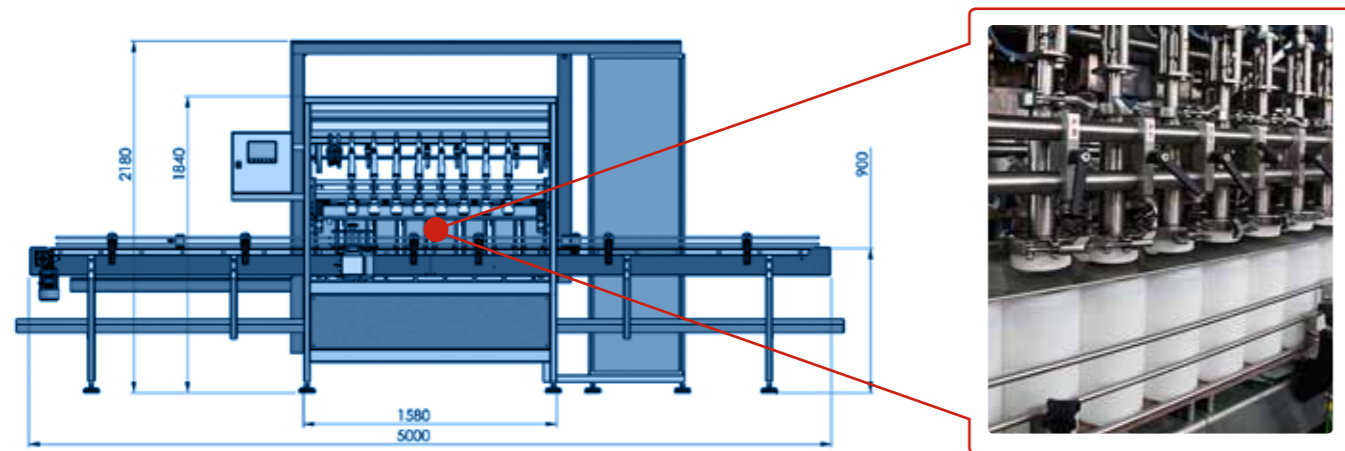
- Fully automatic
- Throughput models offered: 60, 120 & 200 products per minute
- Portioning tolerance: 0.25% of filling volume, **reducing waste!**
- Sub 20 minutes changeover, **reducing downtime!**
- Anti-overflow proprietary mechanism
- Anti-drip proprietary ultra wide screwless shower nozzles
- Supporting both oval and round canisters
- Sanitary design for highest standards of rolled wipes production
- Explosion proof, corrosion proof upgrades available
- All machine metals are Stainless Steel 304 or 316 where liquid flows
- Electro-polished Smart liquid tank

The FGW

THE FGW IS GEAR PUMPS EQUIPPED

Main pros vis-à-vis volumetric, gravity or piston fillers are:

- **Full Range.** Filling volume range is theoretically unlimited.
- **Control.** Portioning volume and speed tuning and fine-tuning are fast and easy via the Machine's HMI.
- **Automatic dosing** and positive displacement pumps filling.
- **Accuracy.** A mere +/- 0.25% tolerance of filling volume, saving waste!
- **Sanitation.** Inherently cleaner than most other methodologies existing in the market.
- **Space.** Fewer pumps are required for the same filling volume, saving space!
- **User friendly.** Filling volume and throughput is controlled for either all or each pump with no-tools through the HMI interface (impossible with volumetric filler).
- **Maintenance.** Is easier to do and less expensive.
- **Reliability.** This Methodology is the most reliable and cost effective over time.



Machine specifications:

Canister

Canister Dimensions Supported	Diameter		Height	
	Min: 75mm	Max:130mm	Min:100mm	Max:280mm
Canisters shape supported	Round and Oval			
Canisters per filling cycle	8 products given a 600ml – 700ml filling volume per canister			
Machine Rate	120 per minute			

Other Features

Filling range capacity, per canister	25cc – 10L
Filling viscosity supported	Up to 60,000 centipoise
Filling tolerance	+/- 0.25% of filling volume, reducing waste!
Filling temperature	Applicable for hot liquids up to 95° Celsius
Changeover time	Sub 20 minutes, tools-free, reducing downtime!
Filling Method	8 independent SST316 Special SA Gear Pumps controlled individually or as a unit through a smart touch screen
Encoder equipped Screwless Nozzles	SA unique ultra wide no-drip showerhead, Teflon, PDMA or Viton seals equipped screwless nozzles for optimal absorbance and round rolls liquid dispersion
Star Wheel	Indexing, forwarding and counting canisters
Smart Liquid Tank	Made of Electropolished SST316 stainless steel, 2 level transmitters (half full and empty). Volume: 115L
Liquid Bath	Featured as a tunnel running under the machine base and conveyor to contain excess liquids. Made of SST304 stainless steel
Drip Tray	Installed inside the machine body, made of SST316 stainless steel. Enabled/disabled touch screen control

Machine Construction

Main Conveyor (made from SST304)	Length: 6.5m	Width: 130mm
Machine frame (made from SST304)	RHS 40x80	

Machine Control

Safety controls, emergency stop & doors	Wired through Category 4 Compliant Controller	
Color HMI Touch panel	Allen Bradley or Siemens options are available	
PLC	Allen Bradley or Siemens options are available	
Sensors	Omron, Sick or Banner	
Voltage	Europe: 3X380V, 2KWH	US: 460/480, 3P, 50/60, 6A or 280, 3P, 2KWH
Pneumatics	Festo/SMC	
Air Supply	6ATM, 0.06CFM, 1.67 Litre/Minute	

Machine Dimensions:

Machine Weight	Height:1800mm	Width:5172mm	Depth:1087mm
	600 KG		