

STRATUM

SHEMESH AUTOMATION
PRUDENT PACKAGING SOLUTIONS



Advanced in-line automatic double-servo-driven piston filler for viscous and free flowing liquids.

- Applicable to containers of most common shapes and sizes in the food & beverage, chemicals and cosmetics industries
- Accuracy of up to +/- 0.25% of filled volume
- Throughput available from 2 to 12 heads or 40-180ppm for up to 500ml liquid vol.
- Over 100 machines built and installed worldwide!



Let us build your vision

Specifically designed to fill viscous liquids with **ultra-high accuracy of only $\pm 0.25\%$ of portioning volume**, the **STRATUM** features **double-servo technology** for production consistency and portioning accuracy. It utilises fully-synchronized **Festo (Germany) servo-driven pistons at each filling station** as well as **Festo (Germany) servo-driven diving nozzles**. This technology also significantly lowers utilities consumption and overall production costs for the business.

STRATUM

Fill good! From water, peanut butter and ink, to pastes, creams and paints – the Shemesh Automation **STRATUM** is

designed to fill a wide range of liquids and particulates with a wide spectrum of viscosity levels.



Quick fact sheet

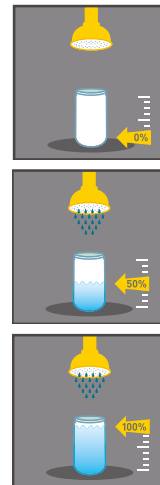
- Positive displacement **double-servo-driven** piston & diving nozzle filler
- Throughput available from 2 to 12 heads or **40-180ppm** for up to 500ml liquid vol.
- **INDUSTRY 4.0 READY:** SECOMA Site Manager 1139 modem, integrated into the machine HMI to enable SMART remote support, live stats and performance analysis as well as manufacturer enhancement feedback
- All welded to pharma sanitary standards using **316L stainless steel** and constructed using **USDA/FDA approved materials**
- **Festo (Germany) Double Servo Filling technology** both in the pistons and the diving nozzles for production consistency and a staggering **+/-0.25% of liquid volume accuracy**
- Viscosity applicable range from 1 to 500,000 Centipoise (water is at 1, peanut butter is at 250,000)
- Portioning range from 100ml/gr-1200ml/gr. Higher volumes of up to 5100ml/gr available. Gear pumps design is also available for higher volumes
- Portioning accuracy of +/- 0.25% of liquid volume
- **Proprietary diving nozzles design** – bottom-up fill built-in feature with programmable portioning speed graph for foaming and dripping prevention
- Throughput: 12-16 cycles per minute per filling station depending on liquid characteristics, for portioning of up to 500ml
- Screw free construction with sanitary weldings for all liquid pipes and pipe works

- Sub 20 minutes, tools-free change over
- Fully programmable user friendly Siemens HMI & PLC
- **SST316L, electro polished, smart liquid tank finishing**
- **Hermetically sealed tank design.** “Double Jacket” heated tank, built in agitators – an option”
- **Applicable for hot liquids, up to 95° Celsius**
- Easy and fast automatic cleaning mode
- **CIP** (clean in place) & **WIP** (wash in place) available
- Built in **Spray balls** for **enhanced CIP**.
- **Flow-Mass Pumps, Gear Pumps or Peristaltic Pumps design is available**
- Corrosion-proof & explosion proof upgrades available

STANDARD SPECS

- **Industry 4.0** ready
- **Festo (Germany) pneumatics and Servo systems**
- Complete **SST304/316L** design
- **FDA** approved piping as applicable
- **SIEMENS (Germany)** PLC & HMI and MOTORS
- **BANNER** sensors
- **E-stop** buttons and safety interlocks wired through **CAT IV** safety controller
- **CE Marking**

For a full demo of the **STRATUM** in action please visit us at www.shemeshautomation.com



Shemesh Automation fillers are also available in monoblock configurations.

Photo: Shemesh SAMBAX – monoblock auto feed, fill, cap and over-cap for vials.



“Strict waste management, minimum downtime and space design, safety, product protection, operational flexibility and long-term reliability are in the core DNA of our product portfolio and engineering mindset.”

Nir Baram, Vice President LATAM Sales, Global After Sales & P.M. Shemesh Automation





A fully integrated, Shemesh-made, automatic **STRATUM** filler & **THORO** capper basic line for gin. More advanced automation can also include automatic feeders, sealers, advanced QC, case packing and more – all under ONE umbrella and made by Shemesh.

"As the leading brand in sanitization and hygiene products, an impeccably clean packaging process is imperative. Also, in such a competitive market, achieving maximum process efficiency is crucial to maintaining our competitive edge. We were so thrilled at how Shemesh's Sambax-Z monoblock achieved both of the above that we did not hesitate to return to Shemesh a year later when we needed a complete **Stratum filling line for sanitisers**. Their machines, service, and industry knowledge really are second to none".

Ron Hoffman, Director of Operations, Durisan, **USA**.



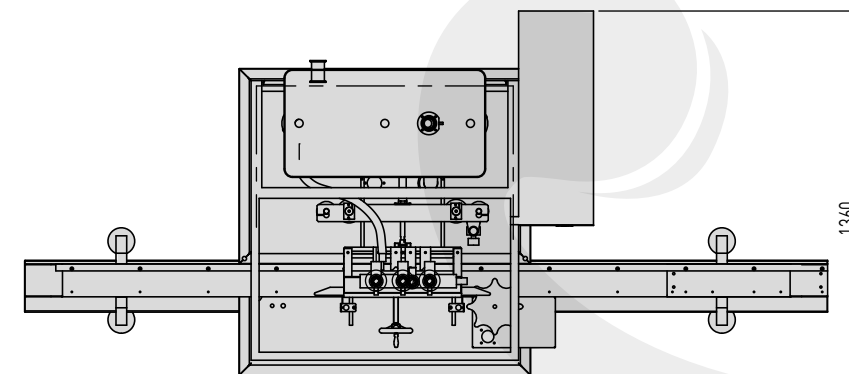
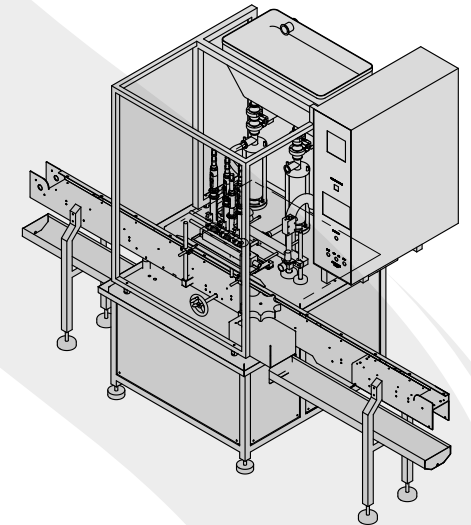
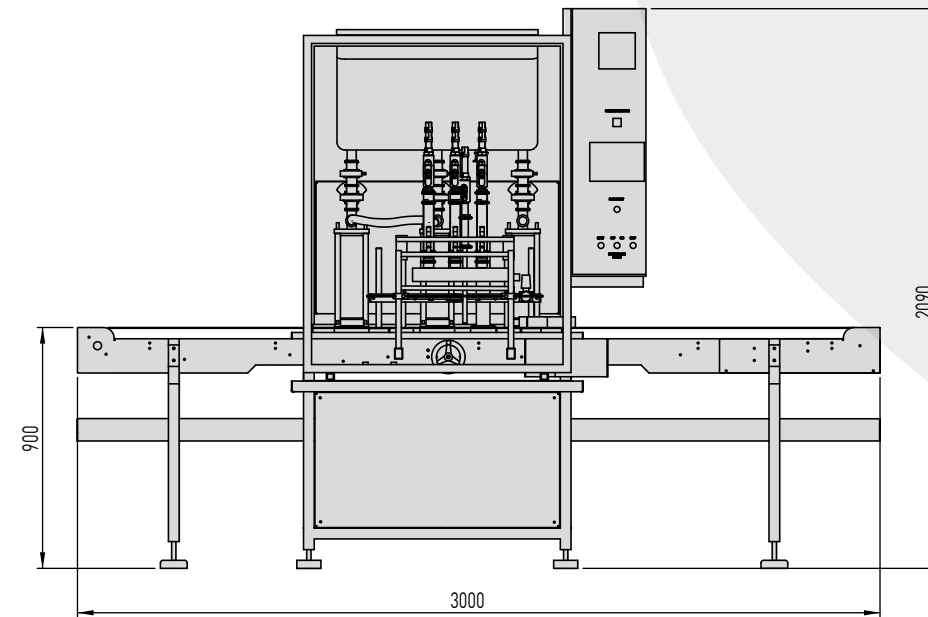
"Since installing the Shemesh all-in-one Xpander wet wipes packer in our UK plant, we have continuously benefited from significant reductions in manufacturing costs and waste while seeing an overall improvement in quality. The small footprint as well as the nearly hands-free, smart automation has resulted in extra factory space for us to increase capacity.

Shemesh has really understood our business needs and we have since purchased several more of their machines. It is as much about the people behind this great brand as the machines themselves."

John Prentice, CEO, Allied Hygiene, **United Kingdom**.



How the **STRATUM** measures up



*Indicative Layout, Three Filling Stations Stratum

From **Israel** and the **UK...** to the **rest of the world**

Shemesh Automation has its headquarters in London and operates an R&D center and two manufacturing facilities in Israel. It has two operating locations in France and the USA, as well as trained sales and service representatives in 13 locations worldwide. We support our customers locally through professional representation networks, helping us to achieve a highly effective presence worldwide. Moreover, with a regular attendance at 6 trade events around the world annually, we have a truly “think global, act local” attitude.

Always close to our customers, Shemesh Automation is highly attentive and able to provide a personalised service in the local language. This ‘partnership’ approach is greatly appreciated by our customers and serves to build long lasting business relationships.

Shemesh Automation technologies are in great demand all over the world. Our 90% export to local sales ratio is evidence of the global demand we experience for our highly innovative filling and packaging machines.

Customisation is also a vital to our business. It is only tailored machines and equipment of the highest quality, specifically produced to meet and often exceed our customer requirements, that leave our facilities.

Our professional and experienced project management service allows us to responsibly implement comprehensive turnkey projects. A 24-hour hotline, remote services and innovative design skills makes us the ideal partner for any project.

Only with a clear mission and by placing the highest demands on ourselves, is it possible to become the global market leader. We strive to be the best. In every class.

WORLDWIDE

15

International branches

United Kingdom
North America
France
Latin America
Israel
Spain
United Arab Emirates
South Africa
India
China & Hong Kong
Japan & Indonesia
Australia & New Zealand

Over

1800

machines...

CAPACITY

x2

Manufacturing sites

...supported in over

30

countries

6

Trade
shows
per year

Global presence



Explosion proofed & Corrosion proofed

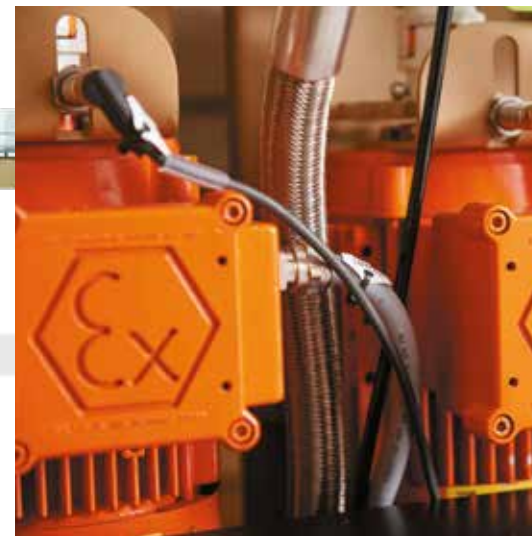


Corrosive or alcohol-based solutions dictate that your equipment is duly fitted to professionally handle these delicate environments. Years of experience in the field made it possible for us to tailor you the exact protection so your production is safe and stable while your people and equipment are well protected keeping your facility at the top of the range.

All of our machines are constructed using SST 304/316L, and are available with anti corrosive proprietary coating. As well as the machine base, all vital parts such as nozzles and pumps are also specially treated.



SHEMESH AUTOMATION'S FGW-120 FILLING MACHINE WITH COMPLETE EXPLOSION (EX) AND CORROSION PROTECTION



Shemesh Automation Core Filling Sealing and Capping 120ppm Line with complete Explosion (EX) and Corrosion protection.

Global representation

Shemesh Automation collaborates with teams on complex Fortune 500 projects and has gained not only a proven and trusted network to put at your disposal, but also invaluable knowledge to help drive your projects.

We share our expertise to guarantee the maximum productivity of your machinery. Our global network of sales representatives and After Sales service specialists offer you flexible and efficient support. Our highly-qualified technicians ensure a fast solution whenever and wherever you need it.

REGIONAL HEADQUARTERS

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*Let us build **your vision***