

XPANDER -







AUTO CAN & LID FEEDING
 WIPES CAN LOADING
 FILLING & PORTIONING
 FOIL CUTTING & CAN SEALING
 CAPPING
 LABELLING
 QUALITY CONTROL



The **XPANDER** from Shemesh Automation: the world's first, precision designed, single block, complete round wipes packaging machine.



Left: Shai Shemesh, President & CEO. Right: Eli Shemesh, Founder

igcap uilt on decades of industry experience supporting the wipes ${\sf D}$ manufacturing sector with our in-line, high-throughput downstream packaging portfolio, Shemesh Automation has now brought together all of our proven technologies for the first time in a single application. The **XPANDER'S** unique all-in-one monoblock design encompasses all aspects of round wipes downstream packaging from cans & wipes loading, dosing, and sealing through to capping, a full built-in QC and smart weight checking. The **XPANDER** has a throughput of up to 35ppm and is the only machine of its kind available on the market today.

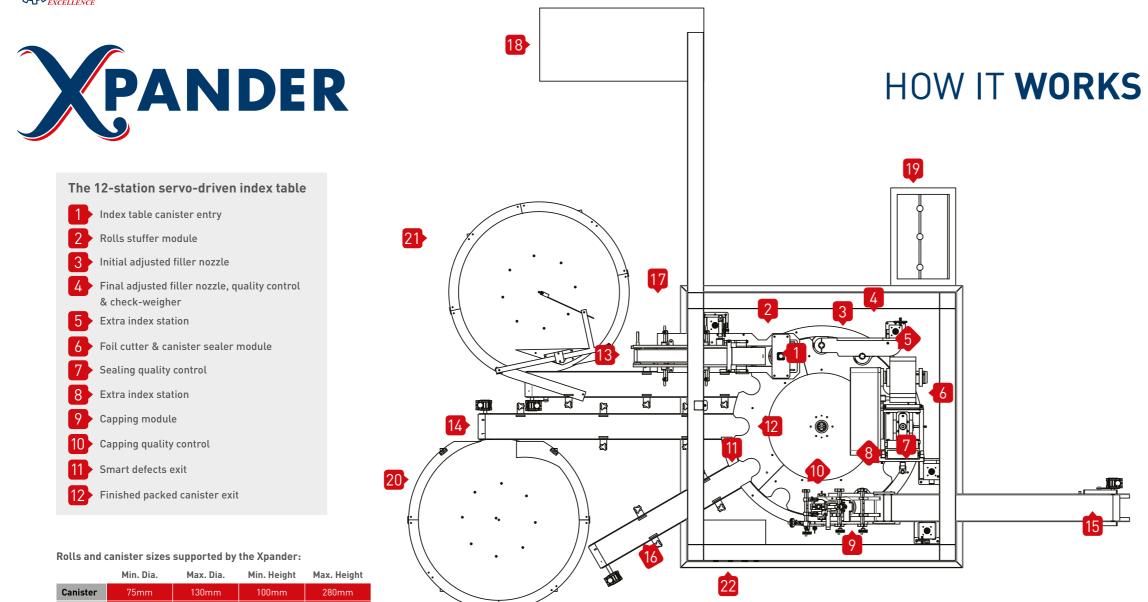
Through a process of continual evolution and constant dialogue with our customers the all-new **XPANDER** offers significant productivity enhancements, benefiting manufacturers and boosting efficiency. Operated by as little as 2 operators, the **XPANDER** affords flexible and efficient operation and offers exceptional ROI while reducing waste, cutting production times and

Let us build your vision

PANDER

maintaining high levels of product quality. The **XPANDER+** configuration offers virtually 'hands free' operation with the only requirement being that the lids and empty cans hoppers are full. In addition, with a monoblock footprint of only 2m x 2m, the **XPANDER** is capable of operating in very small spaces.





50mm

130mm

100mm

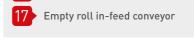
270mm

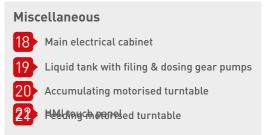
Let us build your vision

With operating speeds of 30-35ppm, the **XPANDER** is a robust, fully-automatic, servo-driven vertical index machine. It is specifically designed as a single block for the downstream packaging of round, nonwoven wet wipes in cans.

Representing the state-of-the-art in packaging technology, **XPANDER** includes semi-automatic feeders for the empty cans and lids, and requires as little as 2 people to operate.











The **XPANDER** possesses a number of specially designed features to support easy and reliable operation:

- **Height-adjustable filler nozzles**. With every cycle the filling nozzle is set (prior to the actual portioning and filling) to a position inside the can that is exactly above the roll but below the can's opening. This eliminates spillage and minimises waste
- **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
- A newly developed capping mechanism for round cans lids
- Advanced QC including multiple check-weighers and total QC for sealing and capping, significantly increasing efficiency
- Designed for operational flexibility and ultra-low toolsfree sub 40 minutes format parts changeover downtime
- All welded to pharma sanitary standards using 316/304 stainless steel
- A newly developed design for vertical wipes can loading
- Easy-to-access 'smart' controls with multiple HMI's around the Xpander for simple operation
- Throughput of **30-35 products/minute** with up to 450cc liquid volume



- **Direct and easy integration** to the rewinding unit
- Adjustable rewinder-to-Xpander throughput technology
- Truly universal supports both round, conic, rectangular & oval shaped cans, screw and push lids, and wrap around front/back labelling

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 Allen Bradley - optional
- **BANNER** sensors
- **E-stop** buttons and safety interlocks wired through **CAT IV** safety controller
- CE Marking



WIPES CAN LOADING UNIT

- Adapted SAS series technology
- Vertical chute and main servo-driven index star wheel methodology
- Rolls diameter tolerance may be bigger than the can's opening by up to 3mm allowing extended operational flexibility and waste reduction







FILLING UNIT

- Enhanced height adjustable, antioverflow proprietary designed nozzles
- Two consecutive dosing stations for further overflow prevention and increased throughput
- Portioning tolerance of 0.5% of filling volume – reducing waste
- No screws. All parts where liquid runs made with sanitary welding, significantly minimising bacteria presence
- Electro-polished SST316L sealed. round smart liquid tank. Built in CIP and spray balls
- Smart, fully automatic source-to-tank liquid generation
- Proprietary anti-drip, ultra wide shower nozzles for homogeneous roll liquid distribution
- Explosion proof, corrosion proof upgrades available



Let us build your vision





LAMINATE CUTTING & CANISTER **CONDUCTION SEALING UNIT**

- Minimum foil waste between batches of 15mm-20mm – reducing waste
- Tolerance margins of 3-4mm, and trim of 10mm – reducing waste
- HMI sealing strength tuning and fine tuning available
- Explosion proof, lid 'intrusion' and 'breathing foil' upgrades available







CAPPING UNIT

- Proprietary servo-driven X-Y mechanism
- Universal design for use of both push and screw lids
- Suited for most industry-standard lids



(AUXILIARY) LABELLER

- Herma (Germany made) applicator
- Better than 0.33mm label positioning accuracy
- Universal design for both wrap around and front/back labelling





QUALITY CONTROL

- Built in check-weighers
- Total/partial sealing QC
- Capping QC
- Defects discharge conveyor
- Smart controls, minimising defects, reducing waste, facilitating operation, boosting productivity/efficiency





- Brings genuine 'hands-free' operation
- Automatic lid feeders and can descramblers designed for seamless mechanical and electrical integration
- Hopper alerts via the HMI interface for full, half-full and empty modes

"Capable of generating operating efficiencies rarely seen in the industry, the unique all-in-one monoblock design encompasses all aspects of production from wipes canister loading, filling, dosing and sealing through to weight checking, capping, labelling, full QC and automatic can and lid feeding."









Converting machine

Canister hopper

Canister descrambler

Roll feed conveyor

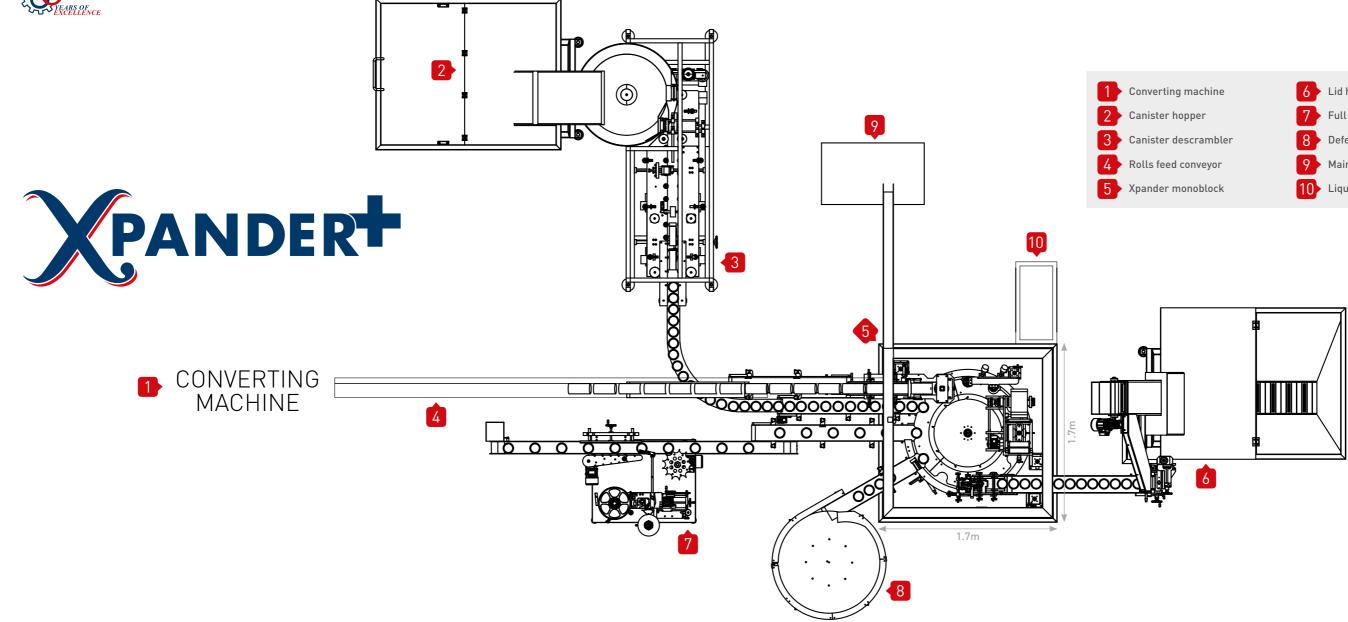
HOW IT WORKS

The **XPANDER+** differs from its sister unit in that fully automatic feeders can be added to the existing modules. This in turn means that, so long as the lid and canister hoppers are kept filled (typically 2 or 3 times per shift), the **XPANDER+** can be operated completely 'hands free' and delivers much greater operating efficiencies.

Let us build your vision

5 XPANDER monoblock
6 Lid hopper and auto feeder
7 Full Wrap-around labeller series
8 Defect products collector table
9 Main electric cabinet





- 6 Lid hopper and auto feeder Full Wrap-around labeller series Defect products collector table Main electric cabinet 10 Liquid tank



GLOBAL PRESENCE



Finance.



Wisconsin, USA North America HQ

State-of-the-art machine showroom, sales and after-sales support, spare parts inventory and North American logistics centre.

Semur-en-Auxois, France European HQ

French team, Tech centre featuring state-of-the-art machinery showroom, sales and after-sales support and European logistics centre.

V-L

Tel Aviv, Israel R&D and Manufacturing

Operations, R&D, Engineering and Manufacturing.

40 .

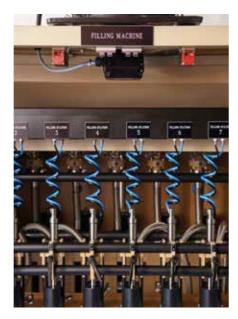




EXPLOSION PROOFED & CORROSION PROOFED

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.













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 United Kingdom

Shemesh Automation UK Ltd Contact: Mr. Andrew Hayward

North America Shemesh USA Inc Contact: Mr. Jim Livermore

France Shemesh Automation France Contact: Ms. Nelly Desbiens

Israel Shemesh Automation Israel Ltd Contact: Mr. Luis Coronel

OTHER OFFICES Spain Shemesh Spain

Shemesh Spain Contact: Mr. Joaquim Julve

United Arab Emirates Shemesh Automation UAE Contact: Mr. Johann Van Niekerk

South Africa Shemesh Automation SA Contact: Mr. Simon Daniels

India Shemesh Automation India Contact: Mr. Shilpan Patel

China & Hong Kong

Shemesh Automation Asia Contact: Mr. Charles Yip Japan & Indonesia Shemesh Automation Japan & Indonesia Contact: Mr. Kentaro Taguchi

Australia & New Zealand Shemesh Automation Australia & New Zealand Contact: Mr. Cameron McKenzie

LATIN AMERICA Contact: Mr. Nir Baram

GLOBAL SALES Contact: Mr. Luis Coronel

For all sales enquiries please contact us via sales@shemeshautomation.com



"Designed for operational flexibility and ultra-low, tools-free, sub 40-minute format parts changeover, it offers advanced Quality Control including multiple check-weighers and total QC for sealing and capping, significantly increasing efficiency."

0

Offices:

United Kingdom

Shemesh Automation UK Ltd 85 Great Portland Street First Floor London W1W 7LT United Kingdom Tel. +44 758 428 1707

USA

Shemesh USA Inc 1040 Centennial Street Green Bay Wisconsin 54304 United States Tel: +1 920 325 0050

Israel

Shemesh Automation Israel Ltd 4 Ha-Sar Khayim Moshe Shapira St. Rishon Lezion 7570406 Israel Tel. +972 3550 9946

France

Shemesh Automation France Bopak SARL Building 10 Rue de la Croix Belin Semur-en-Auxois 21140 France Tel. +33 6 15 21 04 09











For **FREE** advice:

E: sa@shemeshautomation.com

W: sawetwipes.com

