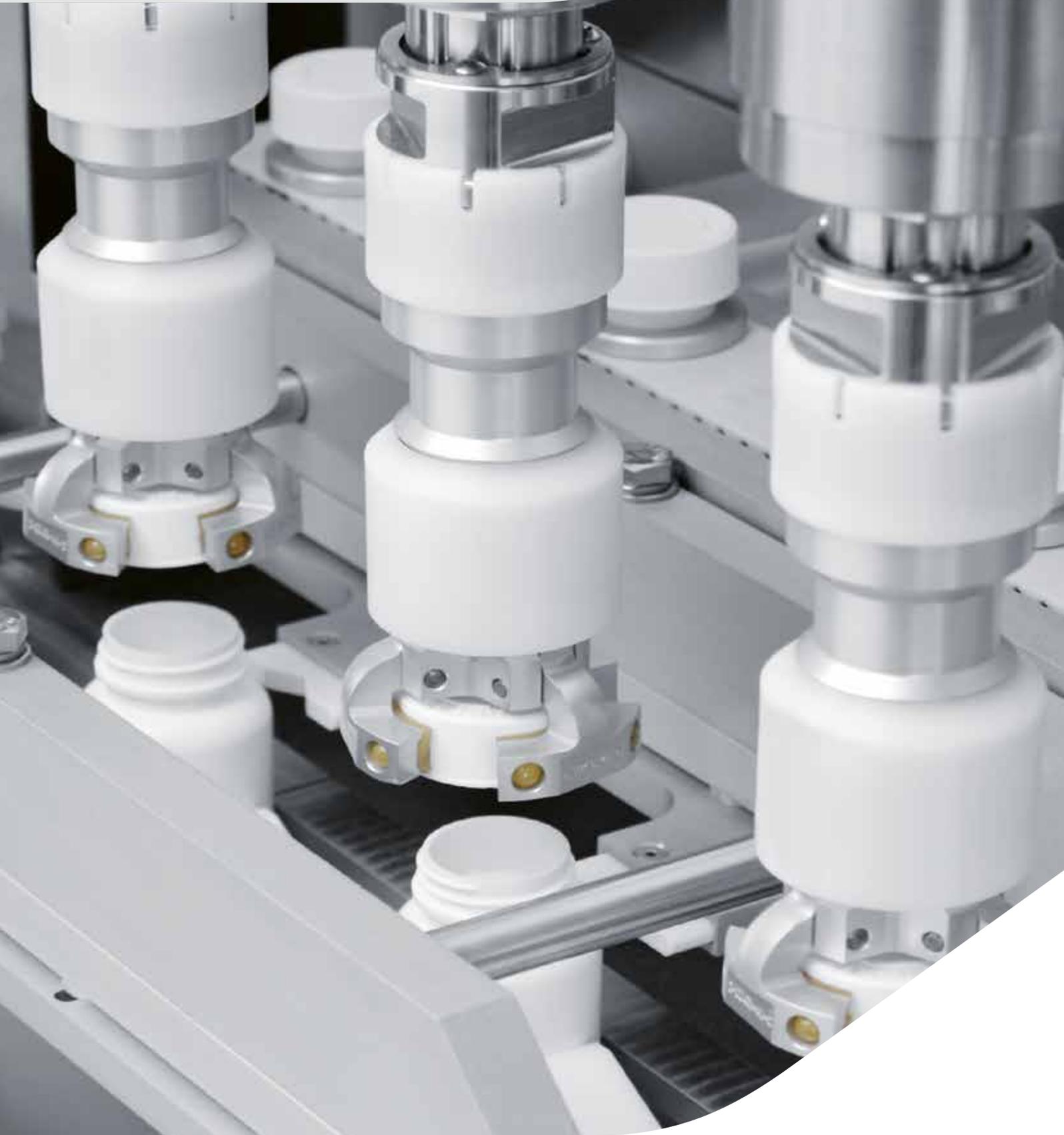


UNILINE

INTEGRATED COUNTING SYSTEM

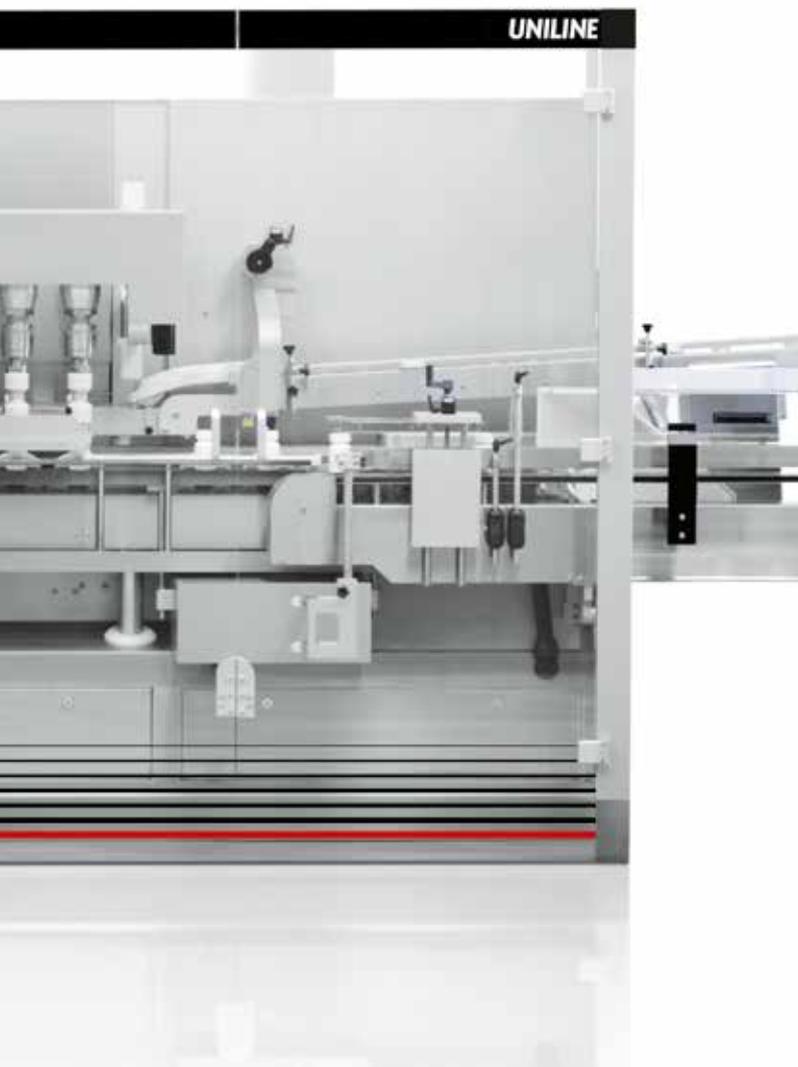


UNILINE INTEGRATED COUNTING SYSTEM

UNILINE, FAST TRACK YOUR COUNTING SYSTEM

UNILINE is a **conveying, filling and capping system that flexibly integrates the functions required to form a complete counting line**: container loading, desiccant insertion, counting and filling, cotton insertion, capping, rejection.





THE UNILINE COUNTING LINE IS EXTREMELY COMPACT AND CONSIDERABLY SIMPLER THAN A TRADITIONAL LINE.

Designed for maximum flexibility with no product or bottle change parts. The Uniline can be changed over very quickly and start up immediately at production speed for high OEE even when running small batches. The balcony design provides easy cleanability and visibility with no hidden entrapment points. Compact design fits in a fraction of the space of traditional equipment.

UNILINE INTEGRATED COUNTING SYSTEM



BOTTLE HANDLING

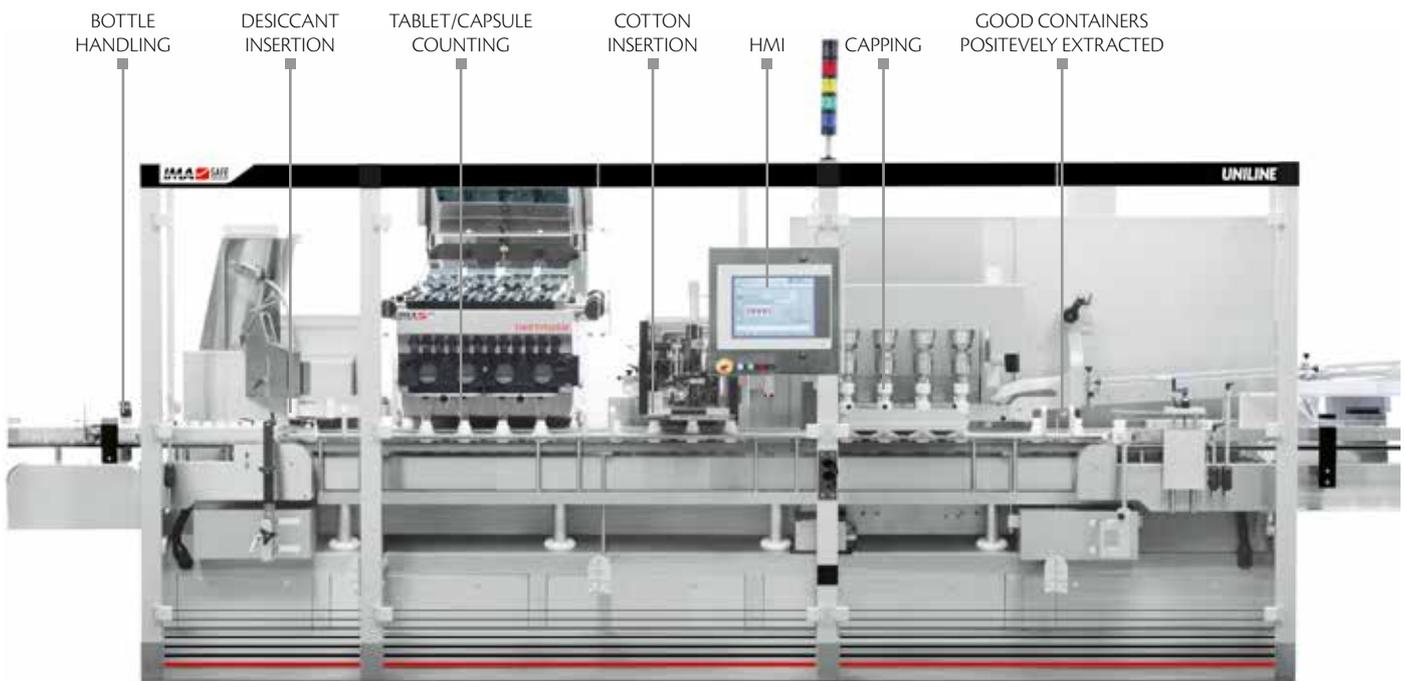
Unique Patented design provides positive control and precise positioning of round, rectangular, square and oval bottles throughout the process.

DESICCANT INSERTION (OPTIONAL)

Optional fully integrated Desiccant inserter module for dispensing 1 to 3 canister desiccants.

TABLET / CAPSULE COUNTING

IMA Swiftpack's industry proven Swiftpharm with the highest level of count accuracy in the market and optional detection of products using Electrostatic and/or vision. Easy removal of small lightweight contact parts for quick changeover and cleaning without the use of any special devices. No product specific parts ensure maximum flexibility and quick introduction of new products.





COTTON INSERTION (OPTIONAL)

IMA Lakso's industry standard cotton inserter accommodates the most difficult materials while still allowing for quality induction seals thanks to the positive knife cutting of the cotton to length and insertion into the bottle as an inverted U.



CAPPING

Positive application of caps using proven chuck design with magnetic clutch torque control and optional servo torque control. Caps are sorted using a cap elevator / sorter that provides bulk feed and sorting in one unit or optional vibratory bowl feeder for non-standard caps. Servo controlled pick and place motion allows infinite adjustment and precise cap placement with even the most challenging caps. Quick release cap chucks, cap trap and minimal change parts ensure quick and positive changeover.



GOOD CONTAINERS POSITIVELY EXTRACTED

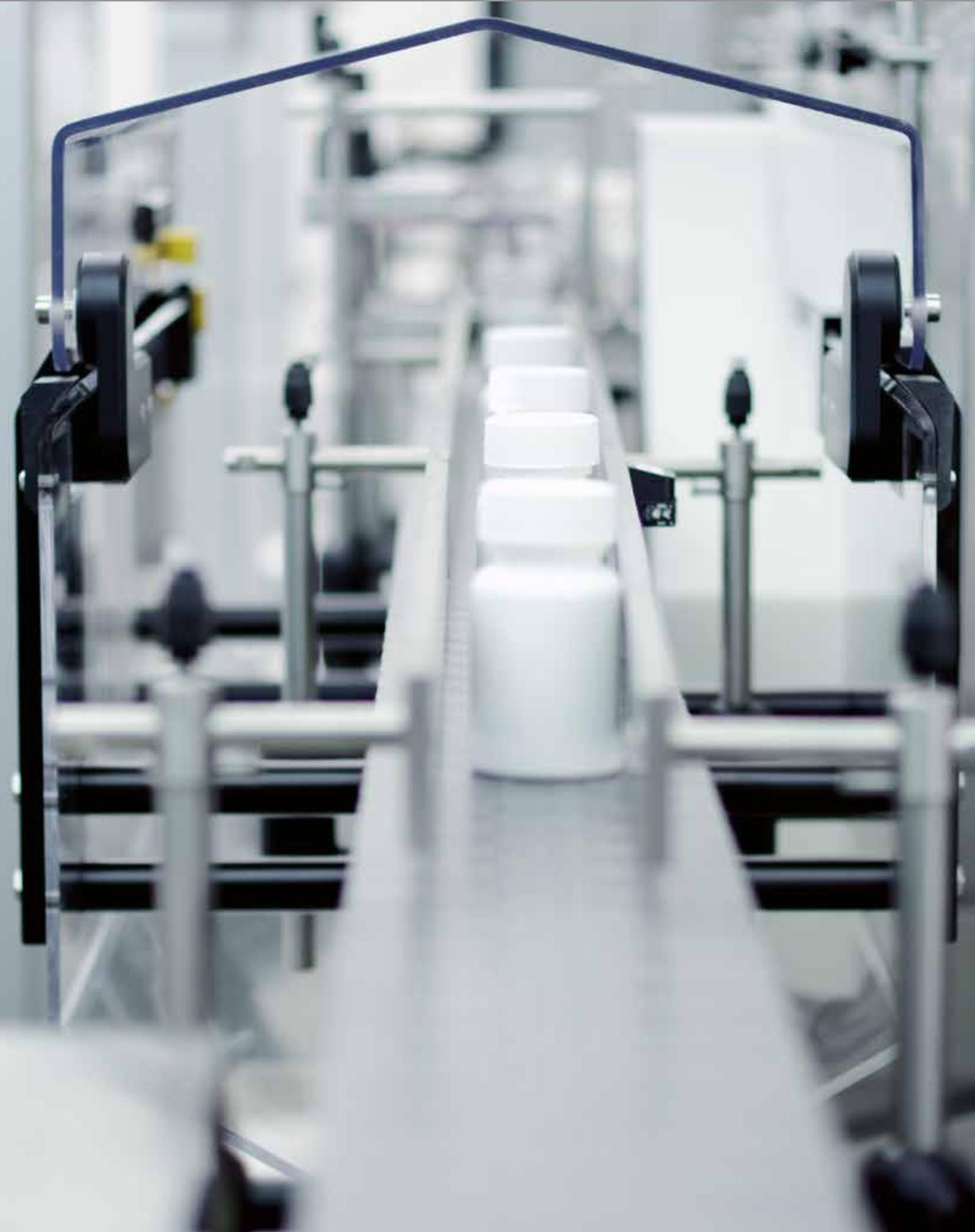
Containers are tracked throughout the system and subject to in-process checks with only accepted bottles extracted to the downstream conveyor. This failsafe design ensures the highest level of quality production.



HMI

Large screen with easy to navigate menu, password controlled access levels and 21 CFR Part 11 compliant. Real time status indicator of all bottles in process provides an instant visual snapshot of the system. On-screen diagnostics and graphic displays to aid troubleshooting.

UNILINE INTEGRATED COUNTING SYSTEM



COUNTING TECHNOLOGIES

The counting accuracy depends on many factors such as counter design, product flow control, gating system and, last but not least sensors. Over the years Swiftpack has developed new solutions in order to improve quality and efficiency.



SENSORS NOT ONLY ABLE TO COUNT PRODUCTS CORRECTLY BUT ALSO TO WORK IN DIFFICULT CONDITIONS.

OPTICAL SENSOR

Very reliable and accurate, infrared emitter and receiver is able to scan at very high rate (16 scans per millisecond). A detected product that falls between minimum and maximum Dark Time is considered a good product and counted. Sensors can detect and count two tablets falling closely together but not completely overlapped.

E.F.S. (ELECTROSTATIC FIELD SENSOR)

Suitable for dusty products, E.F.S. is a unique sensor control able to discriminate between referenced good product and broken tablets, empty or half empty capsules. The mass of the tablet is given by a reference curve. E.F.S. is a dust resistant sensor. The system is suitable to handle both capsules and tablets and it is dust immune.

The table below indicates the detection capabilities of the optical and E.F.S. sensors for different tablet/capsule damage and scenarios. If they are not detected then they will be counted as a good product, if they are detected then the machine will reject the bottle containing that product.

	Half tablet or capsule	Capped tablet	Tablet chip	Double tablet	Double tablet	Part of tablet	Empty capsule	Half empty capsule
								
OPTICAL SENSOR	NO	NO	NO	YES (Count as double)	NO	NO	NO	NO
E.F.S. (ELECTROSTATIC FIELD SENSOR)	YES	YES	YES	YES (Count as double)	YES (Count as double)	NO	YES	YES

Tests with active product are needed in order to confirm definitive results.

CAMERA

Counting machines can be equipped with Camera Vision System to detect cross contamination (products with different colours).



CHANGE OVER

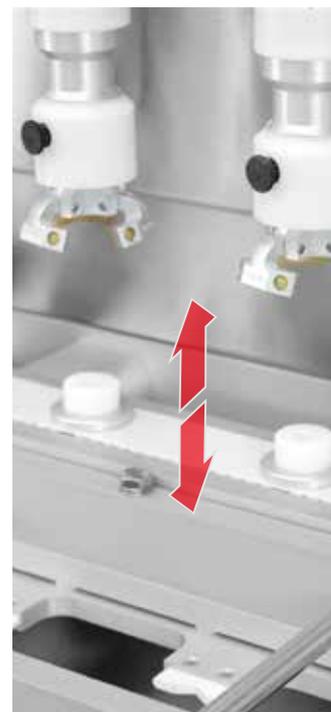
Recipe driven system with all parameters recorded in recipe. Automatic bottle size changeover with the touch of a button and easy to follow step by step instructions guide even an inexperienced operator through the changeover.



Bottle A



Bottle B





SALES AND SERVICES

IMA UNDERSTANDS
THE NEED FOR
EXCELLENT SERVICE
AROUND THE WORLD



SPARE PARTS

The use of original spare parts is essential to guaranteeing perfect machine working order and providing full production efficiency.

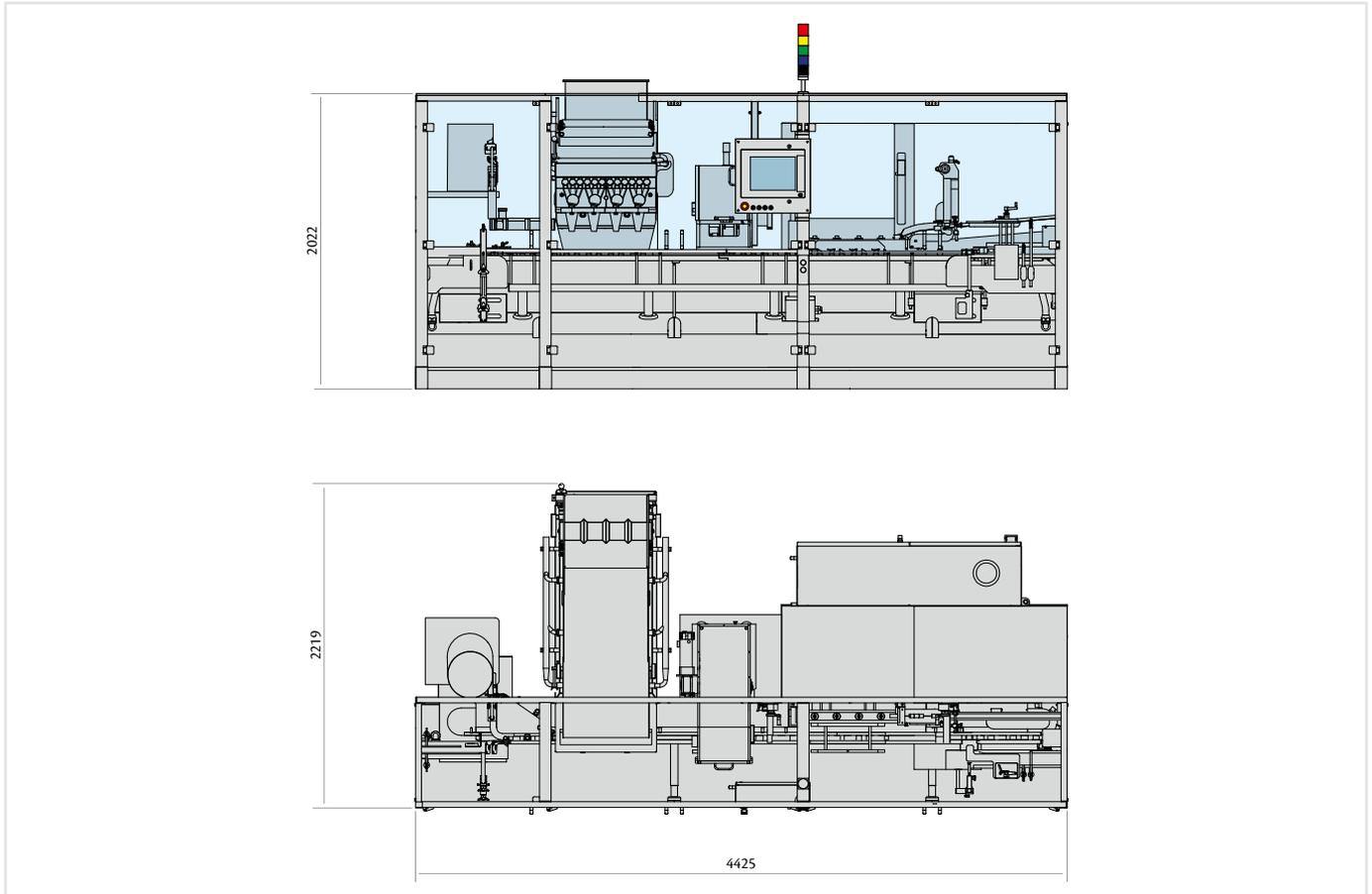
Spare parts can be ordered from IMA directly and shipped to you within 24-36 hours.

- PRESENT IN OVER 70 COUNTRIES
- 10 BRANCHES PROVIDING SALES AND SERVICE
- MORE THAN 50 REPRESENTING AGENCIES
- 90 TECHNICIANS FROM ITALY SUPPLYING WORLDWIDE SERVICE
- 50 TECHNICIANS FROM LOCAL SUBSIDIARIES AND AGENCIES
- 11 AFTER SALES SUPERVISORS

IMA SAFE provides prompt and effective **technical assistance** which covers the entire life cycle of its equipment. This assistance is provided by a dedicated team of experts able to meet our client's needs on a day to day basis. A customer oriented after sales service staff is what distinguishes IMA from the other manufacturers.



TECHNICAL DATA



The dimensions are indicative and can vary depending on the optional groups chosen and machine layout.

Bottle Output	Up to 150 bpm						
Product Output	12,000 tablets / min						
Bottle Range		Min.			Max.		
		Length	Width	Height	Length	Width	Height
	Round	30 mm (1.18")	30 mm (1.18")	55 mm (2.17")	90mm (3.50")	90mm (3.50")	180mm (7.00")
	Rectangular	30 mm (1.18")	30 mm (1.18")	55 mm (2.17")	104mm (4.00")	90mm (3.50")	180mm (7.00")
	Oval	30 mm (1.18")	30 mm (1.18")	55 mm (2.17")	104mm (4.00")	90mm (3.50")	180mm (7.00")
Cap Range	CRC, Screw Top, Flip Top, Press on			10 mm (0.44")	70mm Dia. (2.75")		
Desiccant	1, 2 and 3 gram - 1 to 3 canisters per bottle						
Cotton	Cotton, Rayon, Polyester	50 mm	-	-	180 mm	-	-
Power	480 V, 3 PH, 60 Hz, 40 A						
Power (option)	400 V, 3 PH, 50 Hz, 40 A						
Air Consumption	2 SCFM at 90 psi (56 LPM at 5.5 Bar)						
Air w/Desiccant	8 SCFM at 90 psi (225 LPM at 5.5 Bar)						
Controls	B&R motion and machine control						

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