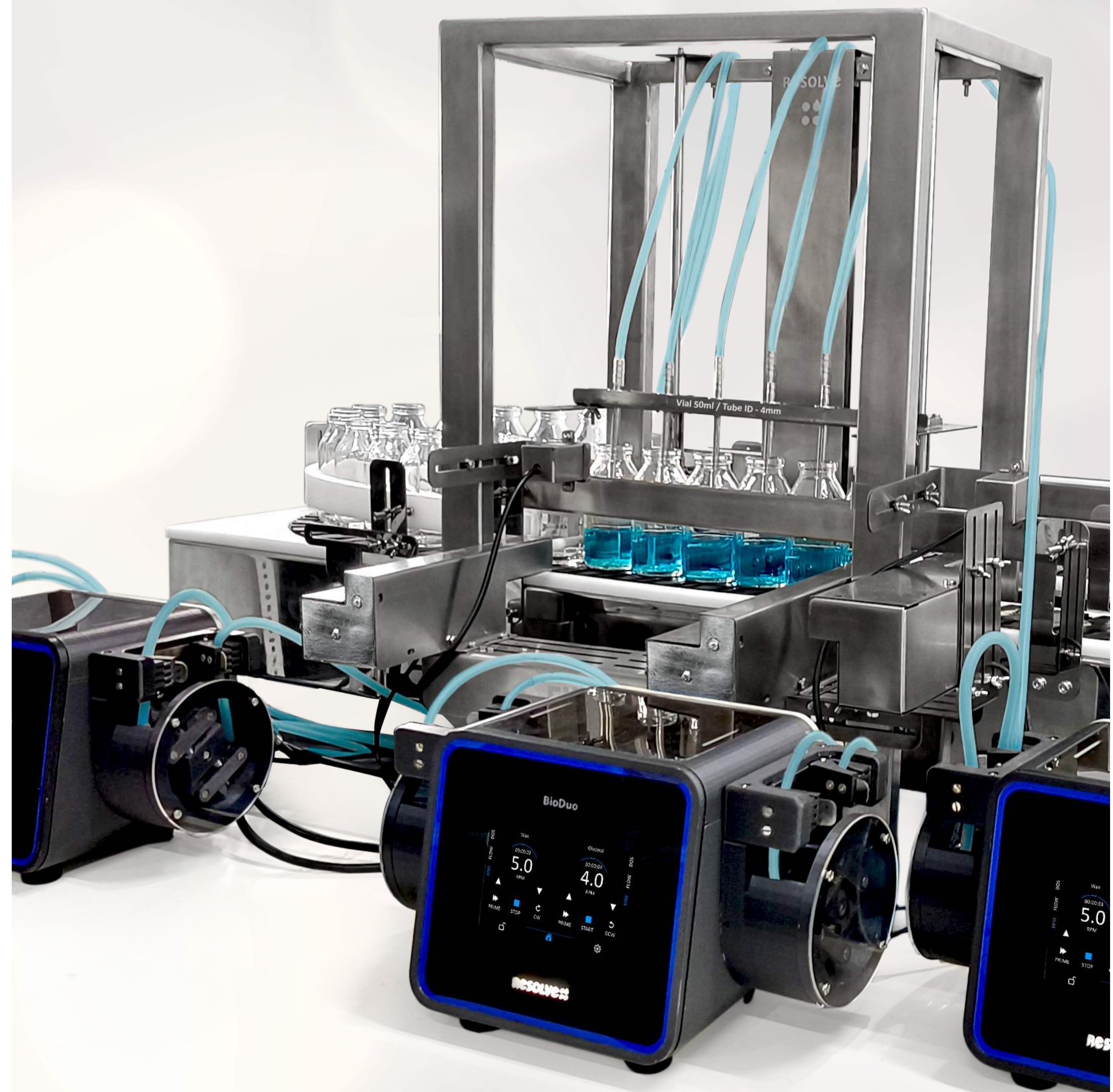


RESOLVE

FILLBOT

Configurable multi vial/bottle filling station



Custom Solutions | Precision Results

FILLBOT + PERISTALTIC PUMP

Configurable multi vial/bottle filling station

The FillBot Liquid Filling Station is a ground breaking solution in the realm of liquid filling technology. It is designed to cater to a wide range of industries such as biotechnology, diagnostics, pharmaceutical, chemicals, cosmetics & toiletries and dairy, food & beverage industry.

At the core of the FillBot filling station are the indigenously developed Dual Head BioDuo Peristaltic pumps that have low shear and gentle pumping action with unmatched accuracy and reliability.

Fill Volumes : 0.5 mL to 5000 mL

Automation : Semi-automatic & Fully Automatics Variants

Application : Aseptic & Non-Aseptic Liquid Fill/Finish

Compatibility : Viscous & Frothing Liquids

Programmable: Yes (Filling Speed & Volume)

Profiles : Settings for various liquids can be saved.

Compliance : GMP Compliant (Activity data saved & can be printed)



FillBot Liquid Filling Station: Revolutionizing Liquid Filling with Unique Advantages

1. Aseptic Filling with No Contact

FillBot takes a leap forward in ensuring product integrity through aseptic filling. The peristaltic pump technology allows for aseptic filling, eliminating the risk of contamination. This feature is particularly vital for industries where maintaining product sterility is critical, such as Pharmaceuticals, Food Processing, Biotechnology and Diagnostics

2. Handling Viscous Liquids with Ease

Viscous liquids prone to causing cleaning issues due to their sticky nature. FillBot addresses this problem by having minimum point of contact between dispensing nozzle and liquid. This minimizes splashing of liquid while filling, residue buildup and simplifies the cleaning process.

3. No Frothing

Preventing frothing during the filling is crucial for industries dealing with liquids that tend to foam when filled into containers. Frothing leads to product wastage, cleaning of filling platform and complicates the packaging process. FillBot's precise control mechanisms ensure a smooth and froth-free filling operation, enhancing efficiency and product quality.

4. Mountable on existing lines

Compact design and adaptability (requiring just 18 inch of conveyor space for a 6 Head filling) to exiting conveyor systems offer substantial advantages, including cost savings, efficient space utilization, seamless integration and reduced installation time. FillBot is an attractive proposition for businesses looking to upgrade their liquid filling processes and maximise the utility of their existing infrastructure.

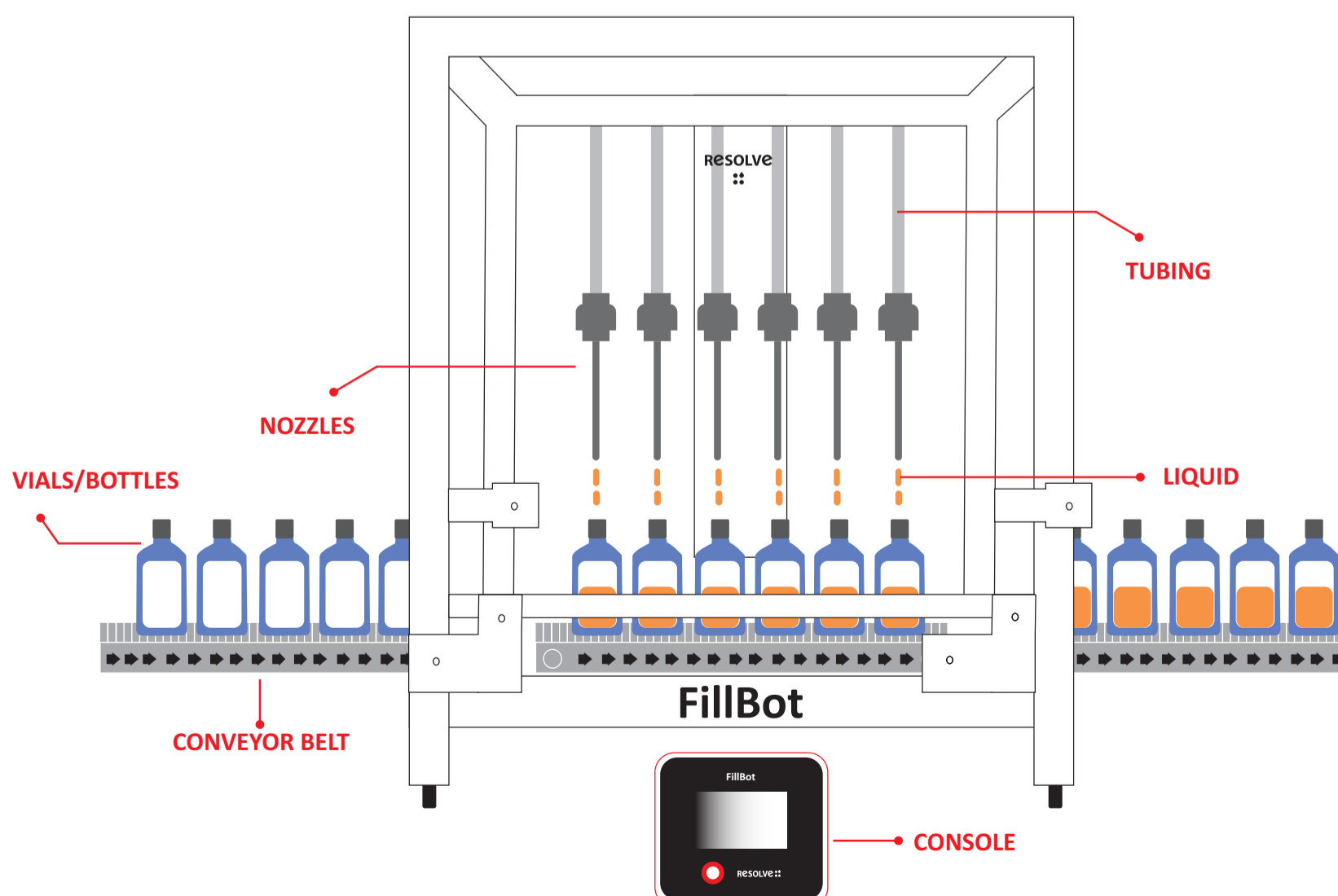
5. Reliable Backup Systems

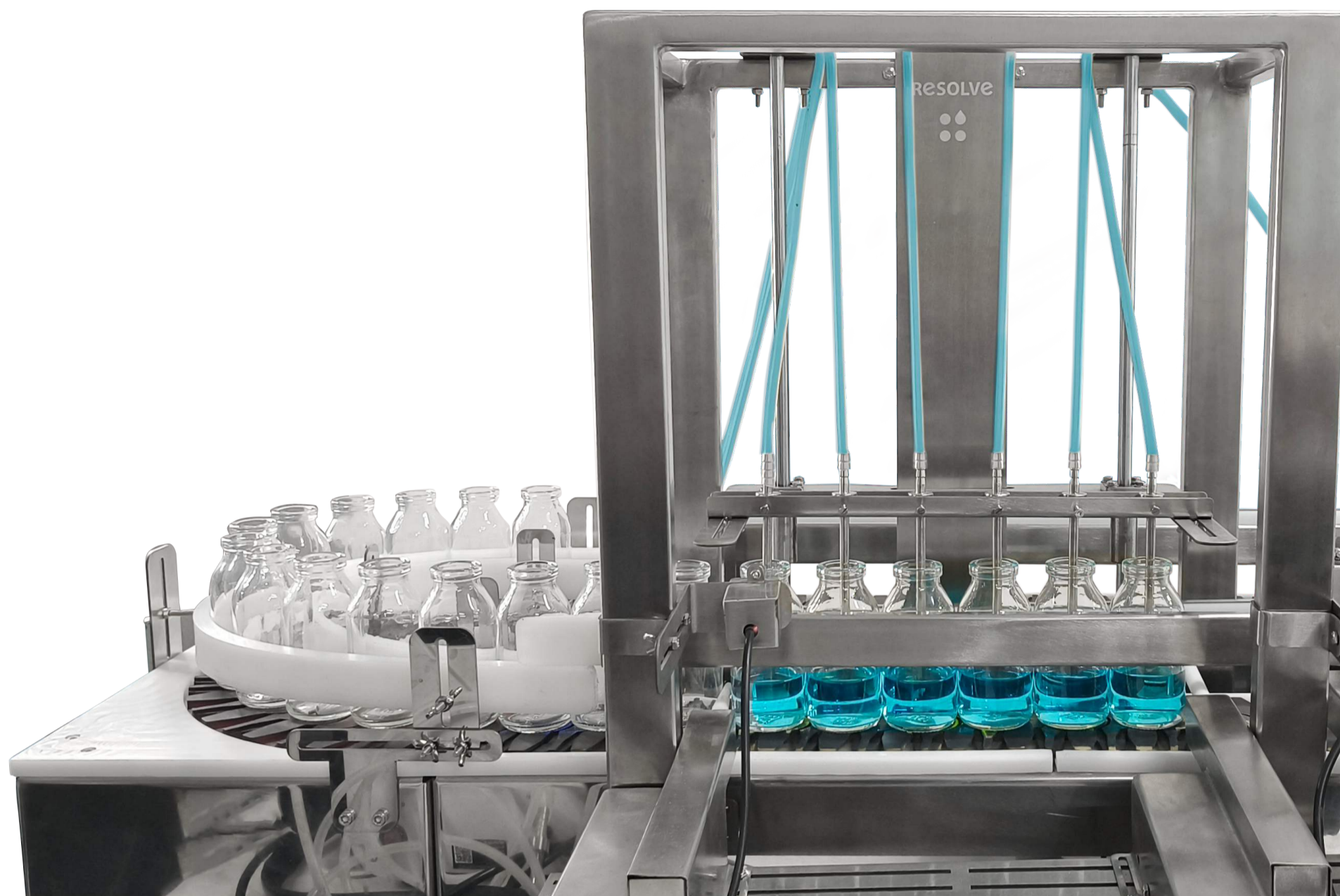
One way to minimize production interruptions and maintain operation continuity, is to have robust backup systems. During downtime, the backup head can seamlessly take over, ensuring that the filling process continues without disruptions.



Rich in Features, Compact in Design

- Extremely compact, can also be mounted on existing lines.
- Pneumatic free, precision sterile liquid dispensing
- Ideal for aseptic, sheer sensitive, viscous, and corrosive liquids
- Minimum product frothing, foaming and splashing
- Each filling head has separate independent pump which allows fine tuning of each nozzle
- Highly accurate filling of better than +/- 1% from 0.5 ml to 5000 ml
- Drip-free operation
- Increased batch consistency between operators
- No-vial no fill sensor prevents miss filling and contamination of the filling environment
- Zero waste of highly valuable product in batch startup
- Tubing and bottom up nozzles are the only fluid contact parts, which are disposable and/or autoclavable for sterilization
- Reduce contamination sources and save time with hand-free initial calibration
- Precisely designed to operate with indigenously developed BioDuo Peristaltic pumps
- Programmable nozzles through peristaltic pump where different speeds can be set, depending on fill volume and foaming nature of material
- Production speed of 900 bottles/ vials per hour of 100 ml each
- Facility provided for the fine tuning of the volume
- Digital Vial Counter for counting production output
- Batch reporting and printing for records
- Reversible flow
- No tools and minimal setup between batches
- Stainless Steel 304 / 316 and Aluminium construction (as per user requirement)
- Can be equipped with a conveyor or it can operate from the customer's existing conveyor
- Can cascade multiple stations
- Low maintenance
- Inbuilt protection against over current, voltage fluctuation, short circuit in ac frequency drive





Technical Specification

Fill Volume	0.5 ml to 5000 ml
Vials/Bottles: Diameter Height	16 mm to 49 mm 40 mm to 110 mm
Production Capacity	Up to 900 vials/hour for sample of 100 ml*
Filling Accuracy	Dual head peristaltic pump with better than +/- 1% accuracy*
No of Heads	2 / 4 / 6
Direction Off Movement	Left to Right
Filling Nozzle	Bottom to Top Non-Pneumatic diving nozzle system (no need for air compressor system)
Volume Adjustment	From touch screen display
Suitable for products	Pharmaceutical and Bio processing preparations and fill/finish, Reagents, Cosmetics and toiletries, Perfumes, Fragrances, Essential oils, Inks, Dyes, Viscous and corrosive liquids, Food and beverage
Suitable for packaging material	HDPE / PET / Glass / Tin / Aluminium bottles / Vials
Material of Construction	Stainless steel (304 / 316 grade) and Aluminium (as per customer requirement)
Power	12V 5A

**Individual results may vary. Accuracy and capacity depend on tube size used fill volume, inline check weighing, bottle/vial size and liquid viscosity.*

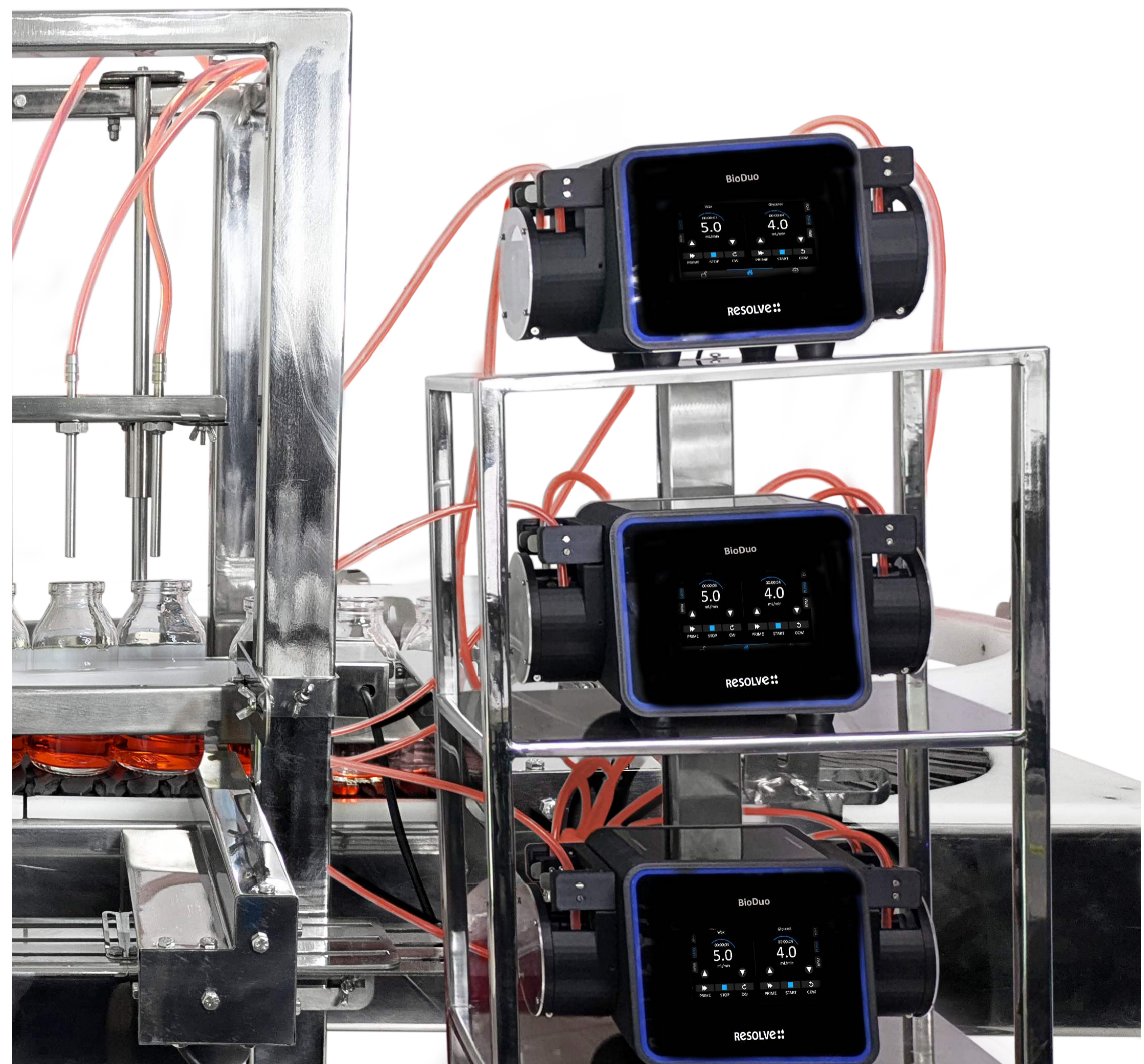
Actual image of

FillBot

in DownStream Application



FillBot





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