



GRANITEN FLEXLINE APPLICATION: PRIMARY PACKAGING OF BOTTLES

The modular and scalable Graniten Flexline platform, has a close-to-zero (C2Z) changeover time, allowing for an efficient and agile move towards personalized medicine, and 'batch size one'.

This Graniten Flexline example, handles the primary packaging step of filling, and capping plastic bottles, leaving the line as traceable bottles. The eight modules selected, correspond to the customer's specific process needs, but can be altered to fit your process.

Main Features

- Line includes following process steps:
 - Bottle unscrambling
 - Bottle air rinsing
 - Desiccant dispensing
 - Tablet inspection, counting, and filling
 - Manual station (if required)
 - Bottle capping
 - Cap induction sealing
 - Cap retorquing
 - Outfeed, reject, and sample point
- Handling minimum 9 types of bottles (3 round, 6 rectangular), for this example with \varnothing 40-60 mm, and H 60-120 mm.
- Packaging minimum 5 types of caps.
- Scalable & upgradeable - new modules can be easily added or upgraded at a later stage, thereby extending the life of the investment.
- One HMI controlling the entire line, and communicating to the local MES system.



Technical Data

Applications:

Bottles

Capacity

15 bottles per minute

Technical changeover time:

< 3 min. Only the recipe needs to be changed on the HMI, no change parts, allowing minimal order sizes

Flexibility

Handles a wide range of formats

Scalable and upgradeable:

Adapt to your changing production requirements

Footprint:

6,75 m long & 1,8 m wide



Graniten offer turn-key machinery innovation for the Pharma and Healthcare industry, focusing on faster and more reliable changeovers and low total cost of ownership with a small footprint to increase overall efficiency.



- Graniten Flexline Platform
- End of Line solutions
- Blow Fill Seal Finishing Lines
- Custom machinery

GRANITEN

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As one of the world's most innovative automation companies, we help our customers to use automation efficiently, to increase their productivity and to lower environmental impact in a sustainable way. Our product range for Pharma, focuses on primary and secondary packaging of small batches, and a wide variety of tertiary end of line packaging. From clinical trials to full scale production equipment, and custom innovations.

**Scalable | Upgradable | Flexibility Modularization | Vision Technology
Intelligent Solutions | Robotic Applications**

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