

Integrated Bottle Center 120

**Flexible and productive:
a bottle filler ideal for frequently
changing batches of solid dose products.**

Highly automated efficiency marvel for the medium output range

Pharmaceutical manufacturers wanting to package diverse small to medium-sized batches of solid dose products in bottles efficiently with fast format changeovers are served well by the Integrated Bottle Center 120. The bottle filler for solid dose products handles up to 150 bottles or 24,000 tablets or capsules per minute and can be reset to a different bottle diameter in just six minutes. Barely five meters in length, the monoblock machine reliably processes round, rectangular and oval bottles 45 to 200 millimeters in height and 25 to 125 millimeters in diameter. All stations necessary for the packaging of solid dose products in bottles are integrated and optimally coordinated. They are

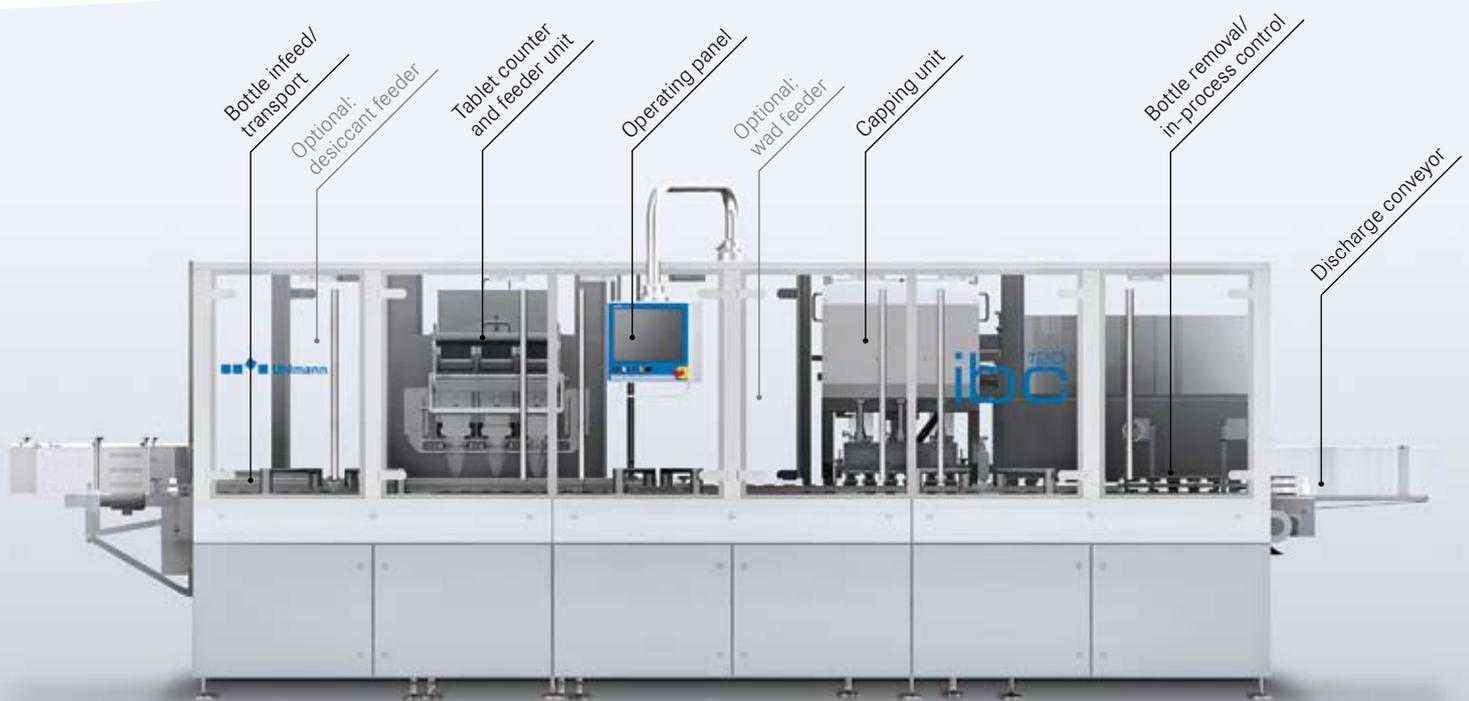
controlled by a central touchscreen user interface and adjust automatically to different bottle heights at the touch of a button. The same applies to the innovative, format-free bottle transport: a rake takes over guided, intermittent motion transport of the bottles through the Integrated Bottle Center 120 from start to finish. Congestion and micro-stops are ruled out. No ramp-up phase is necessary and the few format parts reduce changeover times to a minimum. Furthermore, the GMP-compliant design of the bottle filler allows easy cleaning. Combination of the Integrated Bottle Center 120 with upstream and downstream machines further enhances line efficiency.



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The Integrated Bottle Center 120 at a glance. Technical data:

Output [1/min]	up to 150 bottles	Solid dose products	tablets, capsules
Counting capacity [1/min]	up to 24,000 tablets	Tablet size	
Mode of operation	intermittent	Length	3 – 30 mm
Bottles		Width/diameter	3 – 20 mm
Volume	30 – 1,500 cc	Counting accuracy	100%
Material	HDPE, glass	Sound level	max. 75 dbA
Form	round, rectangular, oval	Space required	
Diameter	25 – 125 mm	Basic machine width	approx. 2,500 mm
Height	45 – 200 mm	Basic machine height	approx. 2,370 mm
Types of closure	screw and snap caps, child-resistant caps	Basic machine length	approx. 4,840 mm



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Components and features of the Integrated Bottle Center 120

- No micro-stops and ramp-up phases: the format-free rake of the intermittent motion bottle transport guides the bottles throughout the line
- Tablet counter available with up to four counting modules, capping unit available with up to three capping heads
- 100 percent counting accuracy on account of infrared counting system
- Capping unit with slip clutch suitable for all types of caps
- Automatic adjustment to bottle height
- Only perfect bottles are forwarded to downstream machines on the basis of the 100 percent good product philosophy
- Master shift register for monitoring of the entire process through to bottle discharge
- Compact design: just 5 meters long
- Flexible: changeover to a different bottle diameter takes six minutes

Additional advantages of the Integrated Bottle Center 120

- GMP-compliant, table-top design for good accessibility
- Optionally selected intervals for automatic in-process controls
- Central operation of all machine stations using state-of-the-art control system with touchscreen
- Product and operation protection as completely enclosed system
- Optional integration of inspection camera system to recognize product presence
- Optional fitting of capping unit with servo technology and monitoring of the closing torque
- Track & Trace by Uhlmann can be integrated – for the seamless traceability of pharmaceutical products
- Production data acquisition system for fast process analysis

Accurate, scalable tablet counter



Mechanically controlled capping unit



Reliable bottle discharge: only perfect bottles are forwarded to downstream machines.



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