瓶装线 IBC 150

可实现高频快速更换产品规格。

药瓶进料
引导式、间歇式运行
钉齿系统运输,
无微停或上升阶段

Cremer药片计数和进料系统
多达四个计数模块,
用于提高计数效率

旋盖系统
具有可扩展的性能可实现
最多三个旋盖位

药瓶释放
合格药瓶定向传送

干燥剂进料
可选:封闭式系统,每瓶最多三份

棉花进料
可选:在位和插入监控

多样化固体制剂产品装瓶

IBC 150使得瓶装中小批量固体剂量产品的包装更灵活、更高效。使用智能控制操作系统,通过触摸屏实现高度自动化、集成和集中控制。整体生产线的生产率平均比由独立部件组成的解决方案高20%。测量长度大约五米,可节省一半空间

- 只需六分钟就可以换成不同直径的瓶子
- 圆形、矩形和椭圆形瓶子的处理
- 带有扭矩的伺服调节封盖系统
- 可监控所有标准类型的瓶盖

- 模具数量少、更换时间短
- 可选扩展模块: 例如干燥剂罐或
  小袋进料器、称重仪、药片检查系统,
  和喂棉机

整线输出一览

最大输出	150 瓶/分
最大计数速度	24,000 粒/分
药瓶容积	30–1,500 ml
药瓶高度	45–200 mm
药瓶直径	25–125 mm

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不止于包装的解决方案
用我们的设备、服务及数字化解决方案为您的进程提供高附加值。
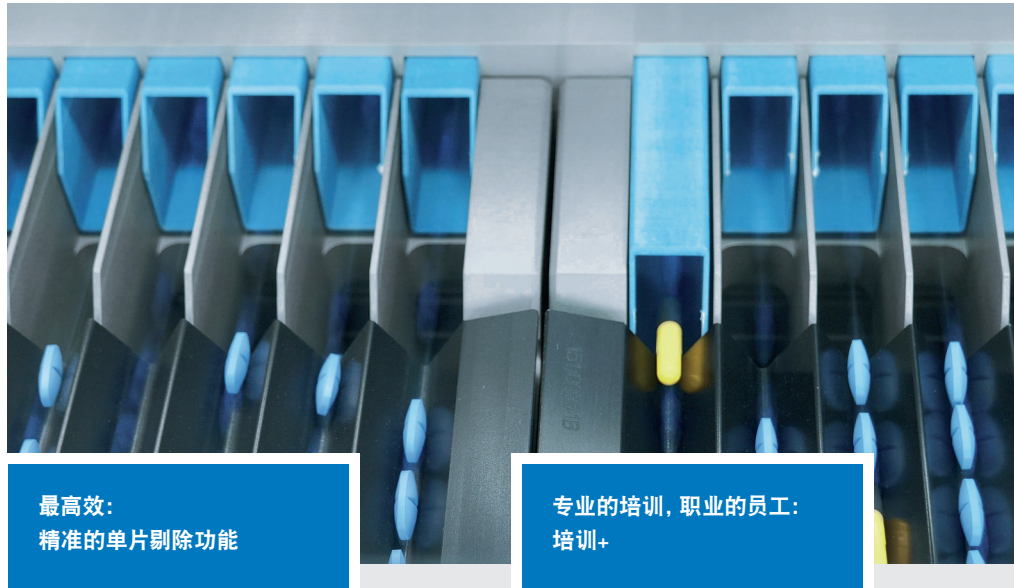
最高效：
精准的单片剔除功能

专业的培训，职业的员工：
培训+

附加流程透明度：
生产线和现场管理

固体装瓶：
高效、可靠

在流程开始时专门清除损坏的药片，而不是在结束时移除整瓶产品？在高生产速度下？瓶装线 IBC 150的可选单个药片剔除功能(专利申请中)将浪费降至最低。片剂已经在计数系统的振动板上进行了检查。识别出的受损产品会被小心而系统地剔除。

培训+的目的是提升员工的技巧，以便他们能够顺立操作您的Uhlmann 设备和生产线。我们使用实践课程长期为您的员工提供培训单独的教学计划和可自由组合的模块——操作、维护、模具更换、电气/电子和管理——构成了培训基础。培训在我们位于Laupheim 的培训中心进行，因此您的生产不会中断。培训结束会授予证书。

在工业4.0自动化的背景下，关键性能指标的一致性收集、显示和分析的相关性正在增加。我们的生产线和现场管理系统确保整个包装过程，并确定提高生产率的潜力。您只需轻触一个按钮，即可获得相关数据(关键绩效指标、原始设备效率)：用于符合CFR 21第11部分的一致性分析，以及优化流程，例如使用Uhlmann PDA系统或 SCADA系统。

从装瓶到入托的集成、符合制药要求的初级和次级包装——我们根据您的规格配置理想的包装线。瓶装线 IBC 150的下游设备为符合GMP的贴标机L 180。接下来可配置最匹配方案的装盒机和后道包装设备。此外，我们还集成了Track & Trace 追溯解决方案——在线、整合定制打印和检查系统，或者使用Uhlmann序列化平台USP。

Bottle line IBC 150

The line for frequent and fast changeovers.

Bottle infeed
Guided, intermittent-motion transport using a rake system, no micro-stops or ramp-up phases
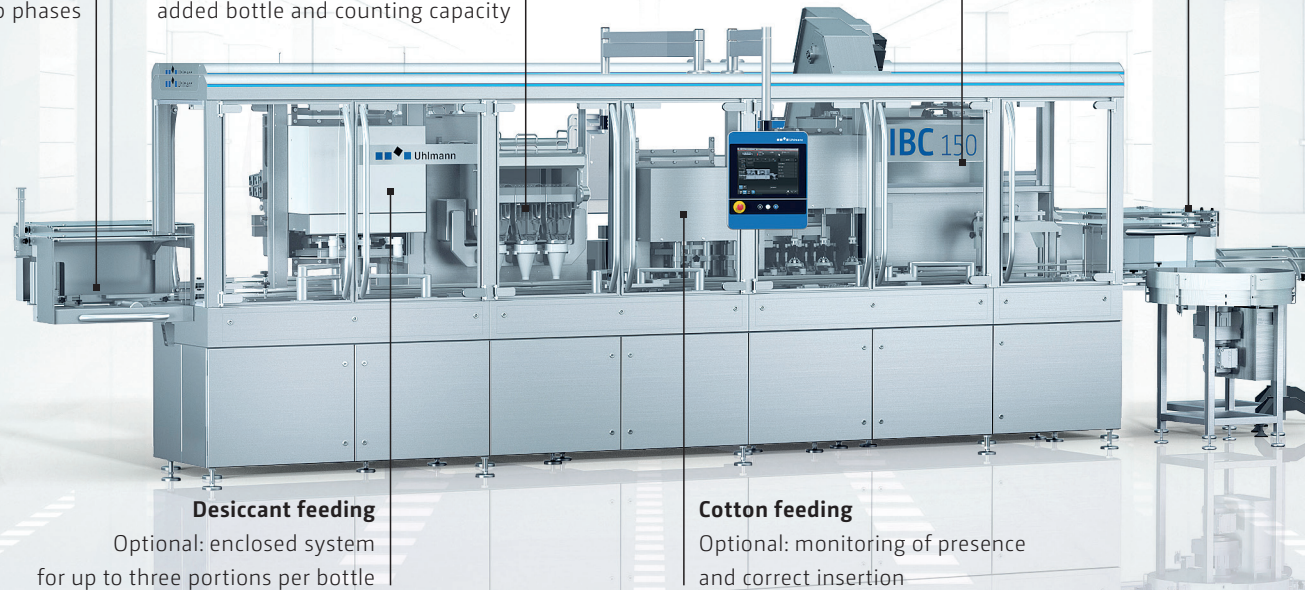
Cremer tablet counting and feeding system
Up to four counting modules for added bottle and counting capacity

Capping system
Scalable performance with up to three capping heads

Bottle discharge
Controlled transfer of marketable bottles only

Desiccant feeding
Optional: enclosed system for up to three portions per bottle

Cotton feeding
Optional: monitoring of presence and correct insertion

Profitable packaging of varying solid dose batches in bottles

The IBC 150 offers flexible efficiency for the packaging of small to medium-sized batches of solid dose products in bottles. Extensively automated, integrated, and centrally controlled via a touchscreen using the SmartControl operating system, the monobloc line is on average 20 percent more productive than solutions comprising separate components. Measuring around five meters, it is also half the length.

- Changeover to a different bottle diameter in just six minutes
- Handling of round, rectangular, and oval bottles
- Servo-regulated capping system with torque monitoring for all standard types of caps

- Few format parts and fast format changeovers
- Optional modular extensions: e.g., desiccant canister or sachet feeder, checkweigher, tablet inspection system, and cotton feeder

Output data of the IBC 150 at a glance:

Max. output	150 bottles/min.
Max. counting speed	24,000 products/min.
Bottle volume	30–1,500 ml
Bottle height	45–200 mm
Bottle diameter	25–125 mm

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Solutions beyond packaging. Added value for your processes.
With machines, services, and digital solutions.

**Maximum effect:
Accurate single tablet
reject function**

**Clever training,
clever employees:
TrainingPlus**

**Added process
transparency: line and
site management**

**Solids in bottles:
a productive and reliable
end-to-end process**

Specific elimination of damaged tablets at the beginning of the process instead of removing full bottles at the end? And that at high production speed? The optional single tablet reject function (patent pending) for the Bottle line IBC 150 reduces waste to a minimum. The tablets already undergo inspection on the vibratory plate of the counting system. Identified damaged products are carefully and systematically ejected.

The objective of TrainingPlus is to upskill your personnel so they can competently handle your Uhlmann machines and lines. We use hands-on training to progressively train your employees over a longer period. Individual instruction schedules and freely combinable modules – operation, maintenance, format changeovers, electrics/electronics, and admin-istration – form the basis. Training takes place at our training center in Laupheim so your production remains uninterrupted. A certificate documents successful completion.

The relevance of consistently collected, dis-played, and analyzed key performance indica-tors is increasing in the context of Industry 4.0 automation. Our line and site management systems ensure transparency throughout the entire packaging process, and identify potential for added productivity. You obtain figures (KPI, OEE) at the touch of a button: for consistent analysis in compliance with CFR 21 Part 11, and for optimized processes, e.g., using an Uhlmann single PDA system or SCADA.

Integrated, pharmaceutically compliant primary and secondary packaging from the bottle to the pallet – we configure the ideal packaging line according to your specifications. Down-stream from the Bottle line IBC 150 follows the GMP-compliant Labeler L 180. Next in line are optimally coordinated cartoners and end-of-line packaging machines. Furthermore, we also integrate Track & Trace solutions – either inline, incorporating customized printing and inspection systems, or using the Uhlmann Serialization Platform USP.

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