

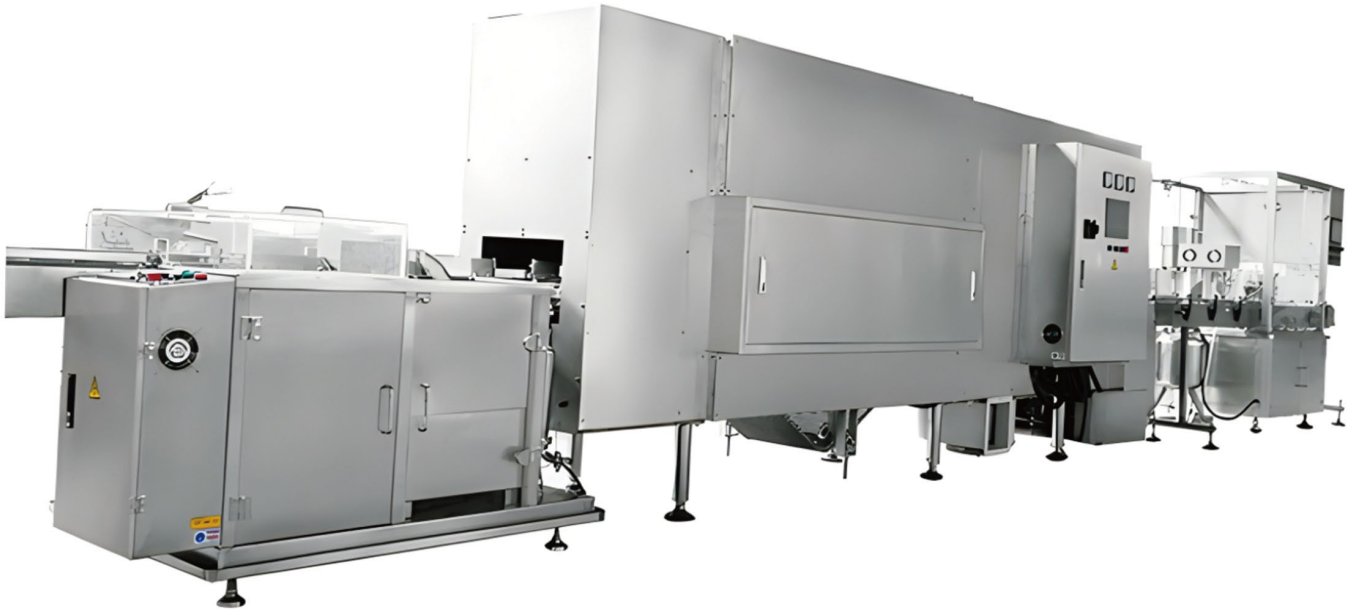
FBM系列西林瓶液体灌装线

FBM Series Vial Liquid Filling Line

► 用途 (Application)

本线主要用于西林瓶冻干粉的液体灌装生产动作，由超声波洗瓶机、隧道烘干灭菌机、自动灌装半加塞机，自动轧盖机，贴标机等组成，可完成西林瓶清洗、烘干灭菌、液体灌装半加塞机，自动轧盖和贴标等生产动作，整线联锁控制，符合制药生产要求。可按照客户工艺及产量要求进行设备配置改造升级。

This line is mainly used for the liquid filling production of vials of freeze-dried powder. It consists of an ultrasonic bottle washer, tunnel drying and sterilizing machine, automatic filling and semi-stoppering machine, automatic capping machine, labeling machine, etc. It can complete the production operations of vial washing, drying and sterilization, liquid filling and semi-stoppering machine, automatic capping and labeling, etc. The whole line is interlocked and controlled, meeting the requirements of pharmaceutical production. The equipment configuration can be upgraded according to the customer's process and output requirements.



► 特点 (Features)

- 集成多种功能，确保无缝灌装过程。它包括清洁、灭菌、干燥、冷却、灌装和封塞功能，确保在受控和无菌环境中准备、灌装和密封小瓶。
- 高精度灌装，确保准确剂量，并最大限度地减少产品浪费。此功能对于保持产品一致性和满足严格的质量标准至关重要。
- 采用先进的清洁和灭菌程序，最大限度地降低污染风险，确保灌装小瓶的完整性和安全性。
- 适应各种小瓶尺寸和液体配方，在生产中提供灵活性和多功能性。它可以处理不同体积和粘度的液体，允许灌装各种制药和生物技术产品。
- 配备先进的自动化功能，以优化效率 and 生产力。自动化流程最大限度地减少了人工干预，减少了人为错误，并提高了整体运营效率。
- 符合监管标准，包括良好生产规范 (GMP)，确保灌装的小瓶符合最高的质量和安全要求。

- Integrates multiple functions to ensure a seamless filling process. It includes cleaning, sterilizing, drying, cooling, filling, and stoppering capabilities, ensuring the vials are prepared, filled, and sealed in a controlled and sterile environment.
- High Precision Filling, ensuring accurate dosing, and minimizing product waste. This feature is crucial in maintaining product consistency and meeting stringent quality standards.
- Incorporates advanced cleaning and sterilization procedures to minimize the risk of contamination, ensuring the integrity and safety of the filled vials.
- Accommodate various vial sizes and liquid formulations, offering flexibility and versatility in production. It can handle different volumes and viscosities of liquids, allowing for the filling of a wide range of pharmaceutical and biotech products.
- Equipped with advanced automation features to optimize efficiency and productivity. Automated processes minimize manual intervention, reduce human error, and enhance overall operational efficiency.
- Complies with regulatory standards, including Good Manufacturing Practices (GMP), ensuring that the filled vials meet the highest quality and safety requirements.



► 技术参数 (Technical Parameters)

参数ITEM	型号TYPE	FBM2/1	FBM4/1	FBM6/1	FBM8/2
技术规格 Specifications	ml	0.5-5			
误差 Loading Eorror	%	±1			
产能 Capacity	Bottles/min	40	80	100-200	300-400
气压和耗气量 Air Pressure and Gas Consumption	-	0.5-0.8MPa, 30-40m³/h	0.5-0.8MPa, 40-50m³/h	0.5-0.8MPa, 50-60m³/h	0.5-0.8MPa, 70-80m³/h
水压及耗水量 Air Pressure and Waler Consumpbon	-	380/220v, 50kw	380/220v, 50kw	380/220v, 90kw	380/220v, 90kw
排水量 Exhaust Volume	m³/h	2800	3000	3500	3500
整线重量 Weight	kg	8000	8500	10000	12000
尺寸 Size	mm	12000*1810*1800	12000*1810*1800	14000*1810*1800	16000*1810*1800