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技术领先 · 行业典范

TECHNOLOGY LEADER · INDUSTRY MODEL



符合FDA标准的灌装系列设备
全球灌装系列设备主流供应商
FDA standard filling equipment
Mainstream supplier of global filling equipment



南通海发制药设备有限公司

HIGH FINE PHARMACEUTICAL MACHINERY CO., LTD.

南通海发水处理工程有限公司

HIGHFINE ENGINEERING LTD

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BFS (Blow-Fill-Seal) Machine
吹瓶-灌装-封口一体机

HIGHFINE mainly provides the following equipments for domestic and foreign pharmaceutical enterprises:

主要为国内外制药企业提供：

关于海发 About us

HIGHFINE 主要从事西林瓶冻干粉针、西林瓶粉针分装、安瓿小容量、口服液大小容量联动生产线；预灌装注射器自动化生产线、吹瓶 - 灌装 - 封口一体机（BFS）等灌装设备的研发、生产、销售与服务。公司拥有国内领先的研发、设计能力，为制药企业提供专业化、个性化的灌装系统整体解决方案。

HIGHFINE 秉承“科技兴邦，造福人类”的使命，企业的最终奋斗目标：成为中国制药工业灌装系统设备的主流供应商，最终成为全球制药工业灌装系统设备的领军者和主流供应商。

Highfine is mainly engaged in R & D, production, sales and service of lyophilized vials, powder vials, small volume ampoules, oral liquid linkage line, PFS (pre-fill system) and BFS (Blow- Fill -Sealing) etc. The company can provide professional and personalized filling system overall solution for pharmaceutical enterprises with our advanced R & D and design capability.

Highfine adhering to the "science and technology development, for the benefit of mankind" mission, the final goal of the enterprise: become a mainstream supplier of filling system of China, and eventually become the global pharmaceutical industry filling system leader and main supplier.

塑料瓶液体制剂 整体解决方案

Overall solution of
plastic bottles
preparation

寸金的光阴堆积起来的二十多年，转眼即逝。我们从年青走向了成熟，从过去的满怀热情变成了今天的更执着、更严谨，因为我们深深的感受到责任重于泰山。

时间把我们的理想变得具体，赋予了它真正的意义。如果由于我们的努力，使人类的生存环境得到了更好的改善，那我们将感到，海发人的智慧是无穷的。

Over 20years, Time passed quickly. We from young to mature, from full of enthusiasm in the past into today's more persistent and more rigorous, because we deeply feel that the responsibility be weightier than mountain.

Time made our ideal specific, given its true meaning. If human's living environment better improved as our efforts, then we will feel that HighFine's wisdom is infinite.

Bottle Blowing-Filling-Sealing Machine (BFS)

吹瓶-灌装-封口一体机



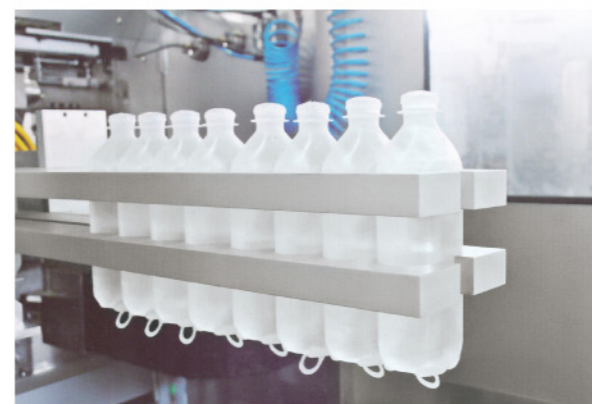
工艺流程 Process flow



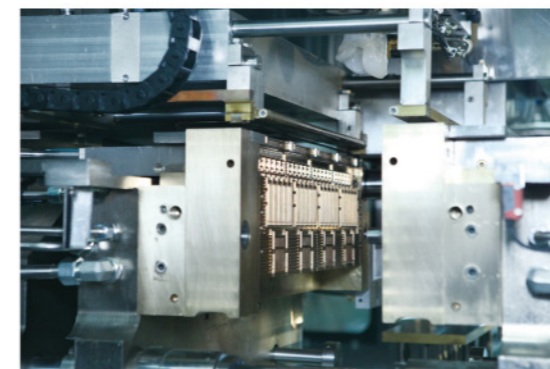
主要用途 Main application

吹瓶 - 灌装 - 封口一体机 (BFS) 是一种无菌包装技术。系统确保在无菌状态下完成医用级聚乙烯 (PE) 或聚丙烯 (PP) 颗粒挤出、成型、全自动灌装和封口等工序, 能有效减少人为污染、环境污染和物料污染等, 满足无菌生产工艺要求。可广泛应用于各类塑料瓶无菌液体制剂等生产领域。

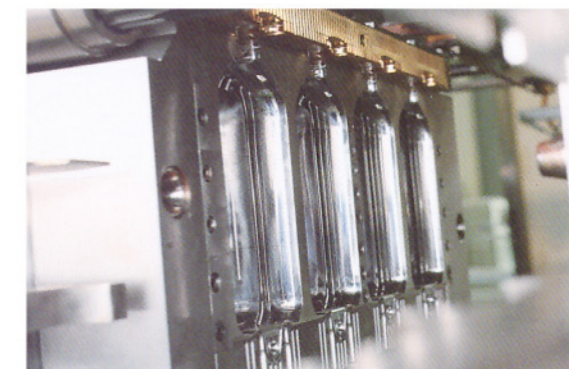
Bottle Blowing-Filling-Sealing Machine (BFS) is a aseptic packaging technology. The system can ensure the process such as pharmaceutical grade PP/PE particles extrusion into container, automatic filling and sealing under aseptic condition. It can effectively reduce the pollution of human operation, environmental, material and so on. It meets the requirements of aseptic production process which widely apply to various areas of plastic bottle sterile liquid preparation.



产品模具 Product mould



小容量容器产品模具
Small Volume Product Mould



大容量容器产品模具
LVP Mould

注: 可按客户要求定制各种特定瓶型的模具设计
Note: System can be customized according to customer's requests(various of bottle type mold design).

Bottle Blowing-Filling-Sealing Machine (BFS)

吹瓶-灌装-封口一体机

容器分类 Classification of containers

小容量产品 Small volume product



主要用于生产小容量注射剂、滴眼液、口服液、滴耳液等产品。装量范围为 0.1ml-20ml, 产量取决于灌装量及模具内腔数。

Mainly for the production of small volume injection, eye drops, oral liquid, ear drops, and other products. The filling range is 0.1ml-20ml, output depends on the filling quantity and mould cavity number.

大容量产品 Large volume product



主要用于生产静脉注射剂、清洗液、洗眼液、镜片护理液等产品。装量范围为 50ml-1L, 产量取决于灌装量及模具内腔数。

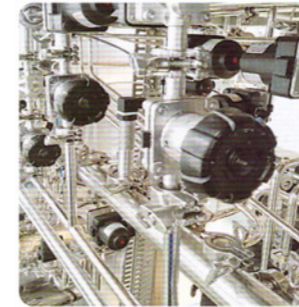
Mainly for the production of intravenous injection, cleaning fluid, eye-washing drops, lens care solution, etc. The filling range is 50ml-1L, output depends on the filling quantity and mould cavity number.

冲裁工位 Cutting station



技术保障 Technical support

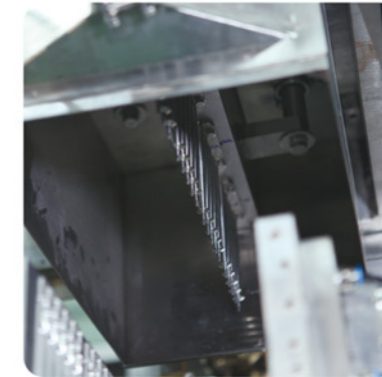
- 具有管路在线清洗 CIP/ 在线灭菌 SIP 系统
With online CIP cleaning/ SIP system



- PLC 控制, 人机界面操作, 具有生产数据显示、记录、打印和存储及各运行参数的修改和设定的功能。
PLC control, HMI operation, with the function of data displaying, recording, printing and storage, parameters modification and setting.



- 有效减少人为污染、环境污染和物料污染;
Effectively reduce the pollution of human operation, environment and material;
- 无菌封闭的灌装系统, 确保产品的安全性;
Closed sterile filling system for products safety;
- 时间 - 压力灌装计量系统, 装量精度高。
Time - pressure filling metering system for precision.



主要技术参数 Main technical parameters

产品型号 Product model	HQS -20-A	HQS -20-B	HQS -30-A	HQS20 -30-B	HQD-6	HQD-8	HQS -20-2	HQS -12-2	HQS -16-2	HQS -30-2A	HQS -30-2B	HQD -6-2	HQD -8-2
模具 Mould	1						2						
管胚数 Tube embryo number	4		3		6	8	4			3		6	8
单胚腔数 Single embryo number	5	4	5*2		10		5	3	4	5*2		10	
总腔数 Total cavity number	20	16	30	30	6	8	40	24	32	60	60	12	16
灌装范围 (ml) Filling range	2-20	5-30	0.2-0.8	1-2	500-1000	50-500	5-20	10-30	5-30	0.2-0.8	1-2	500-1000	50-500
生产能力 (瓶/小时) Capacity	6000	5400	9000	9000	1000-1100	1600-1800	12000	7200	9600	18000	18000	1800-2000	3200-3600
外形尺寸 (mm) Shape size	5500×2800(6000)×3000				6000×3500×3000		6000×5000(10000)×3000					6000×6000×3000	