

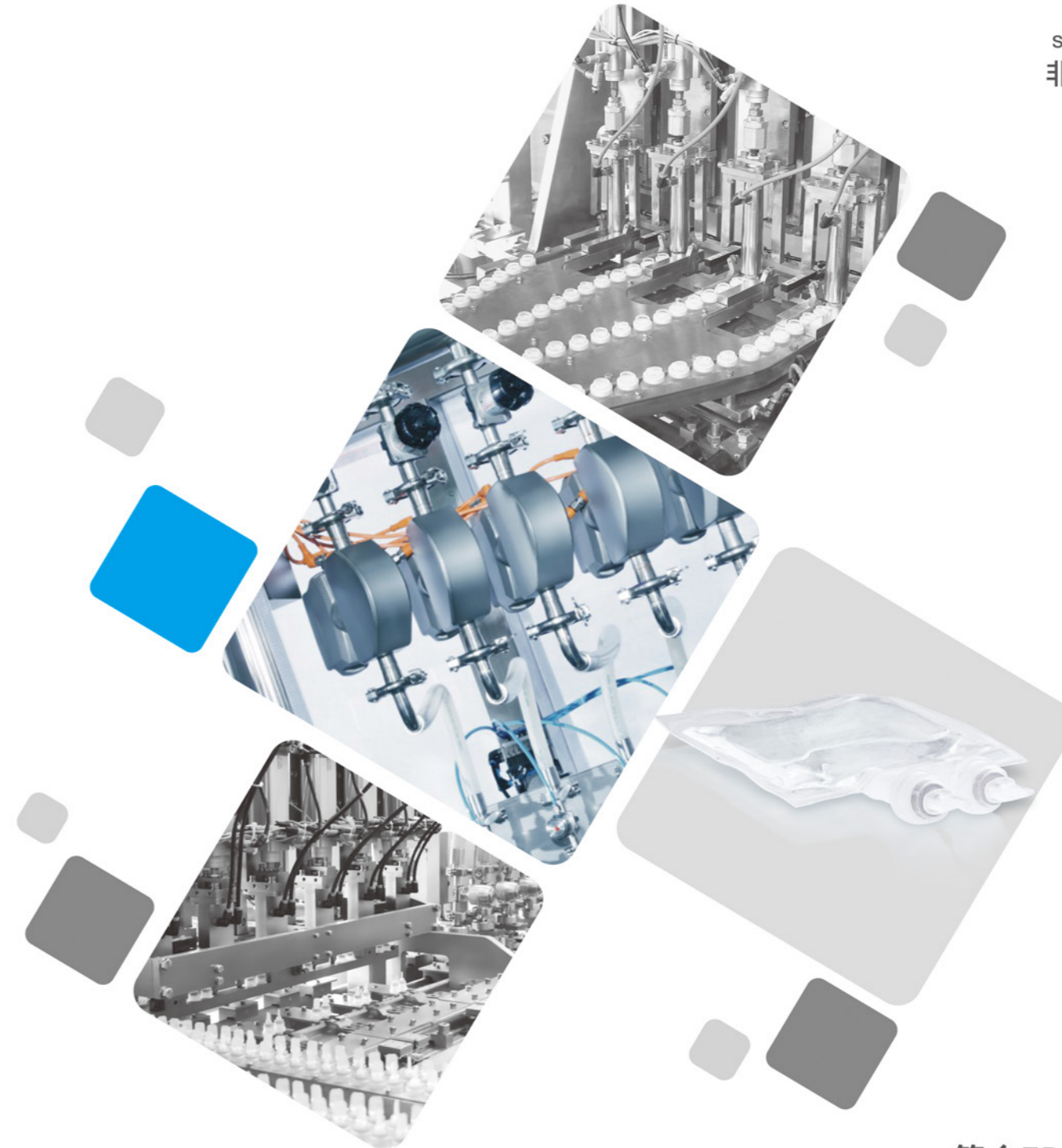


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技术领先 · 行业典范  
TECHNOLOGY LEADER INDUSTRY MODEL

**HIGHFINE**  
南通海发

Non-PVC film  
soft bag infusion production line  
非PVC膜软袋大输液生产线



**HIGHFINE**

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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

## 非PVC膜软袋大输液整体解决方案

Overall solution of non-PVC film soft bag infusion



主要为国内外制药企业提供：

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

## 关于海发 About us >>

**HIGHFINE** 主要从事吹瓶 - 灌封 - 封口一体机 (BFS)、非 PVC 膜软袋大输液生产线、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；预灌封注射器自动化生产线等灌装设备的研发、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 BFS (Blow-Fill -Sealing), non-pvc film soft bag in infusion production line, lyophilized vials, powder vials, small volume ampoules, oral liquid linkage line and PFS (pre-fill system) 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.

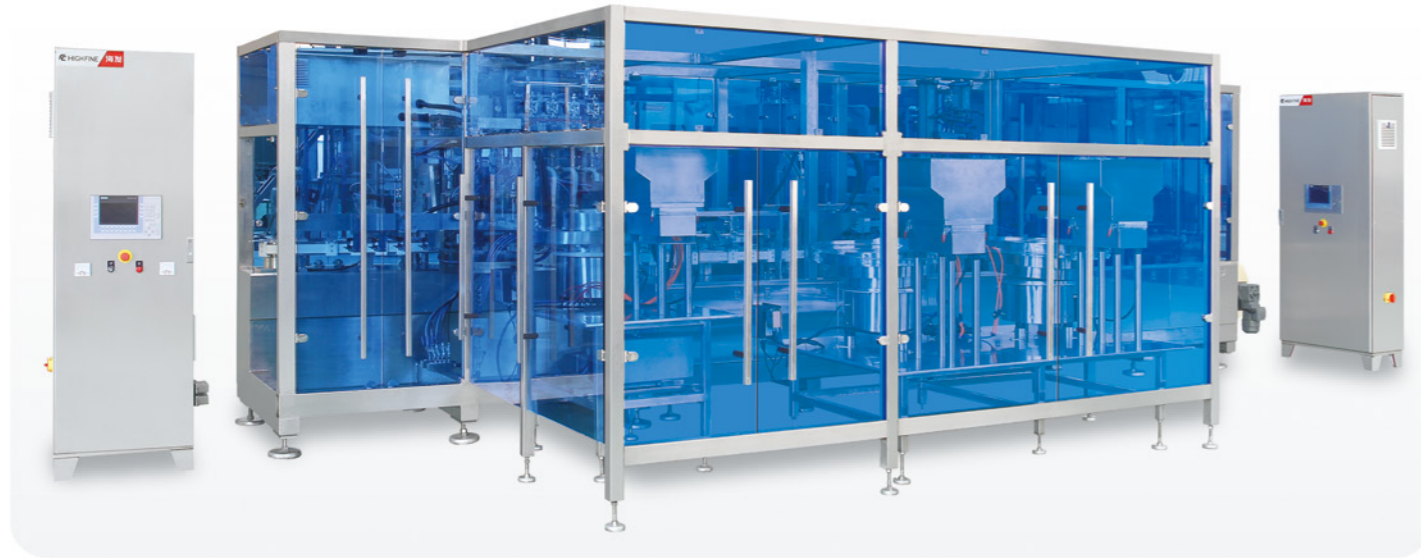
寸金的光阴堆积起来的二十多年，转眼即逝。我们从年青走向了成熟，从过去的满怀热情变成了今天的更执着、更严谨，因为我们深深的感受到责任重于泰山。

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，那我们将会感到，海发人的智慧是无穷的。

Over 20 years, 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.

# Non-PVC film soft bag infusion production line 非PVC膜软袋大输液生产线



## 性能特点 Characteristics

非 PVC 膜软袋大输液生产线是在引进国外先进技术的基础上，南通海发公司经消化吸收并设计制造的，符合国内外用户需求的系列软袋输液生产线。非 PVC 多层共挤膜软袋大输液，具有无毒、与药液相容性强、隔水隔气性好、保质期长、耐受 121°C 高温灭菌、抗低温性好、方便运输和空袋回收不污染环境等特点，是当今国际上最流行的软袋输液生产线。

Non-PVC film soft bag infusion production line is designed and manufactured by Highfine Engineering LTD, Which is based on foreign advanced technology, meet with the requirements of domestic and foreign customers. Non-PVC multi-layer co-extruded film bag infusion, with the characteristics of non-toxic, strong compatibility with liquid, water barrier, long guarantee period, can resist 121 °C high temperature sterilization, anti-low temperature, easy to transport and empty bag recycling does not pollute the environment, which is the most popular soft bag infusion production line in the world.



## 主要技术参数 Main technical parameters

HSRD 单硬管系列软袋大输液生产线 HSRD single hard tube series of soft bag infusion production line

产品型号 Product model	HSRD1200	HSRD2500	HSRD3500	HSRD4500	HSRD6000
生产能力 Output	1200	2500	3500	4500	6000
输液袋规格 Infusion bag specification	100-1000ml	100-2000ml			100-500ml
输液袋袋宽 Bag width of infusion bag	120mm 135mm				
灌装精度 Filling accuracy	100ml±2% 250ml±1.25% 500ml±0.75% 1000ml±0.5% 2000ml±0.3%				
电源 Power supply	380V 50Hz				
电容量 (kW) Power capacity	15	20	25	30	40
总重量 (kg) Total weight	2000	5000	6000	8000	10000
外形尺寸 (mm) Overall dimensions	2940×2660×2250	6000×2660×2250	6100×2660×2250	7865×2660×2250	9090(10020)×2660×2250

HSRDS 双硬管系列软袋大输液生产线 HSRDS double hard tube series of soft bag infusion production line

产品型号 Product model	HSRDS1000	HSRDS2000	HSRDS3000	HSRDS4000	HSRDS5000
生产能力 Output	1000	2000	3000	4000	5000
输液袋规格 Infusion bag specification	100-1000ml	100-2000ml			100-500ml
输液袋袋宽 Bag width of infusion bag	120mm 135mm				
灌装精度 Filling accuracy	100ml±2% 250ml±1.25% 500ml±0.75% 1000ml±0.5% 2000ml±0.3%				
电源 Power supply	380V 50Hz				
电容量 (kW) Power capacity	18	25	30	40	50
总重量 (kg) Total weight	2000	5500	6500	8500	11000
外形尺寸 (mm) Overall dimensions	2940×2660×2250	6000×2660×2250	6100×2660×2250	7865×2660×2250	9090(10020)×2660×2250

## 工作流程 Workflow



## 技术保障 Technical support



在线CIP/SIP功能  
Online CIP/SIP



质量流量计灌装系统  
Mass flowmeter filling system



接口焊接、膜冷却、去倒角  
Interface welding, film cooling, chamfering



预热、成型  
Preheating, forming

## 软袋接口、盖子和包装袋型分类

### Classification of soft bag (interface, cover and packaging type)

#### 接口 Interface

- ① 单管接口  
single tube interface
- ② 双管接口  
Dual tube interface



#### 盖子 Cover

- ③ 拉环式组合盖  
Pull ring combination cover
- ④ 易折式组合盖(单阀)  
Easy folding combination cover (single valve)
- ⑤ 易折式组合盖(双阀)  
Easy folding combination cover (double valves)



#### 袋型 Packaging type

- ⑥ HSRD单硬管系列袋型  
HSRD single hard tube series bag type
- ⑦ HSRD双硬管系列袋型  
HSRD double hard tube series bag type
- ⑧ HSRDRS双软管系列袋型  
HSRDRS double hose series bag type



## 成本参考 Cost reference

### 120mm 袋宽输液袋 120mm bag width infusion bag

规格 (ml) Specification	100	250	500
耗膜尺寸 (L×W) Film size	130×120	170×120	240×120
膜材成本 Cost of film	0.31	0.41	0.57
色带用量 (m <sup>2</sup> ) Consumption of ribbon canister	0.005	0.009	0.015
色带成本 Cost of ribbon canister	0.015	0.027	0.045
接口盖成本 Cost of port, cap	0.45	0.45	0.45
总计成本 Total cost	0.78	0.89	1.07

### 135mm 袋宽输液袋 135mm bag width infusion bag

规格 (ml) Specification	100	250	500	1000
耗膜尺寸 (L×W) Film size	120×135	160×135	220×135	320×135
膜材成本 Cost of film	0.32	0.43	0.59	0.87
色带用量 (m <sup>2</sup> ) Consumption of ribbon canister	0.005	0.009	0.015	0.018
色带成本 Cost of ribbon canister	0.015	0.027	0.045	0.048
接口盖成本 Cost of port, cap	0.45	0.45	0.45	0.45
总计成本 Total cost	0.84	0.96	1.14	1.42