



Integral solution of



ampoule (small volume) preparation 安瓿(小容量)制剂整体解决方案

CHIGHFINE

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安瓿(小容量)制剂整体解决方案

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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,转眼而逝。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,赋予了它真实的意义。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.

HABL series ampoule washing-sterilization-filling-sealing linkage line

HABL系列安瓿瓶洗烘灌封联动线





主要用途 Main application

本联动生产线由 HQCLA 系列立式超声波洗瓶机、HSDH 系列隧道式热风循环灭菌烘箱、HSA 系列安瓿灌装封口机组成。既可联动使用,也可单机使用。联动生产时可完成喷淋注水、超声波清洗、冲水(瓶内外壁)、冲气(瓶内外壁)、预热烘干、干燥灭菌去热源、冷却出瓶、前冲氮、灌装、后冲氮、封口预热、封口等工序。

本联动线能满足 1-20ml 安瓿瓶洗瓶、干燥灭菌去热源、 灌装和封口的生产工艺要求。

The linkage line consists of HQCLA series vertical ultrasonic washing machine, HSDH series hot air circulation sterilization tunnel, HSA series filling and sealing machine. The model can be used in combination or in a single machine. The linkage line can complete water spray filling, ultrasonic cleaning and flushing (internal and external), CA flushing (internal and external), preheating, drying and sterilizing to remove heat source, cooling, before and after nitrogen, sealing after preheating, sealing and other processes.

This line can meet the size range from 1-20ml ampoule of washing, drying and sterilizing to remove heat source, filling and sealing requirements of the production process.

性能特点

立式超声波洗瓶机采用超声波粗洗与循环水、注射用水和洁净压缩空气交替喷射清洗的方式对容器进行清洗,洗净 澄明度和可见异物检测效果理想,是当今国际上最流行的清 洗设备。

隧道式灭菌烘箱采用热空气层流原理和高温灭菌工艺对容器进行预热、干燥灭菌去热源、冷却的灭菌生产工艺,是 当今国际上最流行的烘干灭菌设备。

灌装封口机采用步进式输瓶、定位灌装、拉丝封口,封口合格率高,是当今国际上最流行的灌装封口设备。

本联动生产线采用 PLC 控制触摸屏操作,既可联动控制, 也可单机操作。控制运行稳定,自动化程度高。



Characterstics

Vertical ultrasonic washing machine using ultrasonic rough washing, circulating water, WFI and clean compressed air spray and clean the container alternately. Cleaning clarity and visible material detection effect is ideal; it is the most popular cleaning machine in the world today.

The sterilization tunnel adopts the principle of hot air laminar flow and high temperature sterilization process to preheat, dry, sterilize, remove heat and sterilization process. It is the most popular drying and sterilizing machine in the world.

Filling and sealing machine adopts step-by-step bottle conveying, positioning filling, wire drawing and sealing. The sealing rate is high. It is the most popular filling and sealing machine in the world.

The interlocking production line adopts PLC control and touch screen operation, which can be used for linkage control or stand-alone operation. The control runs stably and with high automation.

主要技术参数 Main technical parameters

产品型号 Product model					
适应规格 Suitable sizes (ml)	1-20ml (ampoule)				1-10ml (ampoule)
生产能力 Output (pcs/h)	6000-16000	8000-21000	10000-24000	12000-30000	16000-36000
灌装针数 Filling heads	6	8	10	12	16
电源 Power supply	380V 50Hz				
电容量 Power capacity (kW)	78	78	80	90	90
总重量 Total weight (kg)	8900	8900	9400	9700	10100
外形尺寸 Overall dimensions (mm)	9100×2200×2450	9100×2200×2450	9260×2200×2450	9910×2200×2450	10042×2200×245

HQCLA series vertical ultrasonic washing machine HQCLA系列立式超声波洗瓶机

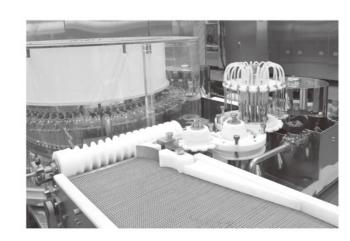




主要用途 Main application

HQCLA 系列立式超声波洗瓶机主要适用于制药企业安瓿 瓶的清洗,也可用于西林瓶、口服液瓶等容器的清洗。

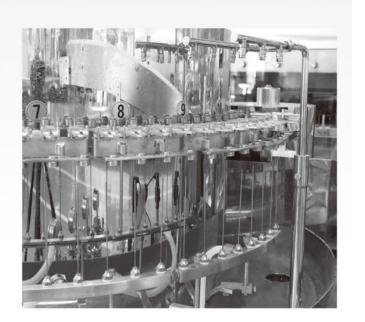
HQCLA series vertical ultrasonic washing machine is mainly applicable to the cleaning of ampoule bottles in pharmaceutical enterprises, and can also be used for the cleaning of vials, oral liquid bottles and other containers.



性能特点 Characterstics

本机为立式转鼓结构,采用机械手夹瓶、翻转和喷针插入作往复跟踪方式,利用超声波粗洗与循环水、注射用水和洁净压缩空气交替喷射清洗的方式对容器进行清洗,完成瓶内壁三水三气和瓶外壁一水一气的清洗。整个清洗过程中,每组喷针固定对应一种清洗介质,无交叉污染,符合无菌生产要求。洗净澄明度和可见异物检测效果最理想,是当今国际上最流行的清洗设备。

This machine is a vertical drum structure, by mechanical hand, overturning and needles reciprocating tracking mode, by using rough ultrasonic washing and recycling water, WFI and clean compressed air alternating jet cleaning method, finishing washing of internal 3times water washing, 3times CA washing, and external 1time water washing and 1time CA washing. In the whole cleaning process, each spray needle is fixed corresponding to a cleaning medium, without cross contamination, and meets the requirements of aseptic production. Cleaning, clarity and visible substances can be tested with good results; it is the most popular cleaning machine in the world today.



主要技术参数 Main technical parameters

产品型号 Product model	HQCL60A	HQCL80A	HQCL100A	HQCL120A		
适应规格 (ml) Suitable sizes	1-20ml (ampoule)					
生产能力 (pcs/h) Output	8000-18000	11000-24000	12000-30000	18000-38000		
碎瓶率 (%) Breakage rate	≤0.1%					
注射水耗量 WFI consumption	0.4-0.6m ³ /h、0.3-0.5MPa	0.6-0.8m ³ /h、0.3-0.5MPa	0.8-1.0m ³ /h、0.3-0.5MPa	1-1.2m³/h、0.3-0.5MPa		
压缩空气耗量 CA consumption	35-40m ³ /h、0.4-0.6MPa	45-50m ³ /h、0.4-0.6MPa	55-60m³/h、0.4-0.6MPa	65-70m ³ /h、0.4-0.6MPa		
电源 Power supply	380V 50Hz					
电容量 (kW) Power capacity	13					
总重量 (kg) Total weight	2200	2300	2400	2500		
外形尺寸 (mm) Overall dimensions	2200×2200×1450	2200×2200×1450	2200×2200×1450	2200×2200×1450		

HSDH series hot air circulation sterilizing tunnel HSDH系列隧道式热风循环灭菌烘箱





主要用途 Main application

HSDH 系列隧道式热风循环灭菌烘箱主要适用于制药企业安瓿瓶的干燥、灭菌、去热源,也可用于西林瓶、口服液瓶等容器的干燥、灭菌、去热源。

HSDH series hot air circulation sterilization tunnel is mainly suitable for drying, sterilizing and removing heat source of ampoule bottle in pharmaceutical enterprises. It can also be used for drying, sterilizing and removing heat sources of vials such as vials and oral liquid bottles.

性能特点 Characterstics

本机为隧道式结构,整个隧道腔体分为预热区、高温灭菌区、 冷却区三部分。采用热空气层流原理和高温灭菌工艺对容器进行干燥、灭菌、去热源,采用负压密封结构,再配合独特的热空气导流 等核心技术,热分布均匀,是当今国际上最流行的烘干灭菌设备。

This machine is a tunnel structure, and the whole tunnel is divided into three parts: preheating zone, high temperature sterilization zone and cooling zone. The use of hot air laminar flow principle and high temperature sterilization process for the container drying, sterilization, heat source, the use of negative pressure sealing structure, coupled with the unique hot air diversion and other core technologies, thermal distribution, is the most popular in today's world of the drying and sterilization machine.



主要技术参数 Main technical parameters

产品型号 Product model	HSDH600/3600	HSDH600/4250	
适应规格 (ml) Suitable sizes	1-20ml (ampoule)		
生产能力 (pcs/h) Output	18000-40000	21000-45000	
网带有效宽度 (mm) Mesh belt width	600	600	
灭菌温度 (°C) Temperature	280-350°C可调		
碎瓶率 (%) Breakage rate	≤0.05%		
电源 Power supply	380V 50Hz		
电容量 (kW) Power capacity	60	71	
总重量 (kg) Total weight	4500	4800	
外形尺寸 (mm) Overall dimensions	3600×1750×2245	4250×1750×2245	

HSA series ampoule filling and sealing machine







主要用途 Main application

HSA 系列安瓿灌装封口机主要适用于制药企业安瓿瓶的灌装和封口。

HSA series ampoule filling and sealing machine is mainly suitable for filling and sealing ampoule bottles in pharmaceutical enterprises.



性能特点 Characterstics

本机采用多工位步进式输瓶方式、定位灌装、拉丝封口, 封口合格率高,是当今国际上最流行的灌装封口设备。

This machine adopts multi station step-by-step bottle conveying, positioning filling, wire drawing and sealing, with high sealing rate. It is the most popular filling and sealing machine in the world today.



主要技术参数 Main technical parameters

产品型号 Product model	HSA6	HSA8	HSA10	HSA12	HSA16	
适应规格 (ml) Suitable sizes	1-20ml (ampoule)				1-10ml (ampoule)	
生产能力 (pcs/h) Output	7200-18000	9000-22000	12000-25000	13000-32000	18000-38000	
灌装头数 Filling heads	6	8	10	12	16	
灌装精度 (%) Filling accuracy	<±2%					
封口合格率 (%) Qualified rate	≥99.9%					
碎瓶率 (%) Breakage rate	≤0.1%					
燃气耗量 LPG consumption	0.2-0.3MPa 、0.3-0.5 m ³ /h				0.6-0.8 m ³ /h	
氧气耗量 Oxygen consumption	0.3-0.5MPa 、1.0-1.2 m ³ /h			0.3-0.5MPa、	1.5-1.8 m ³ /h	
电源 Power supply	380V 50Hz					
电容量 (kW) Power capacity	5	5	6	6	6	
总重量 (kg) Total weight	2200	2200	2500	2500	2800	
外形尺寸 (mm) Overall dimensions	3300×1800×2450	3300×1800×2450	3460×1800×2450	3460×1800×2450	3592×1800×2450	