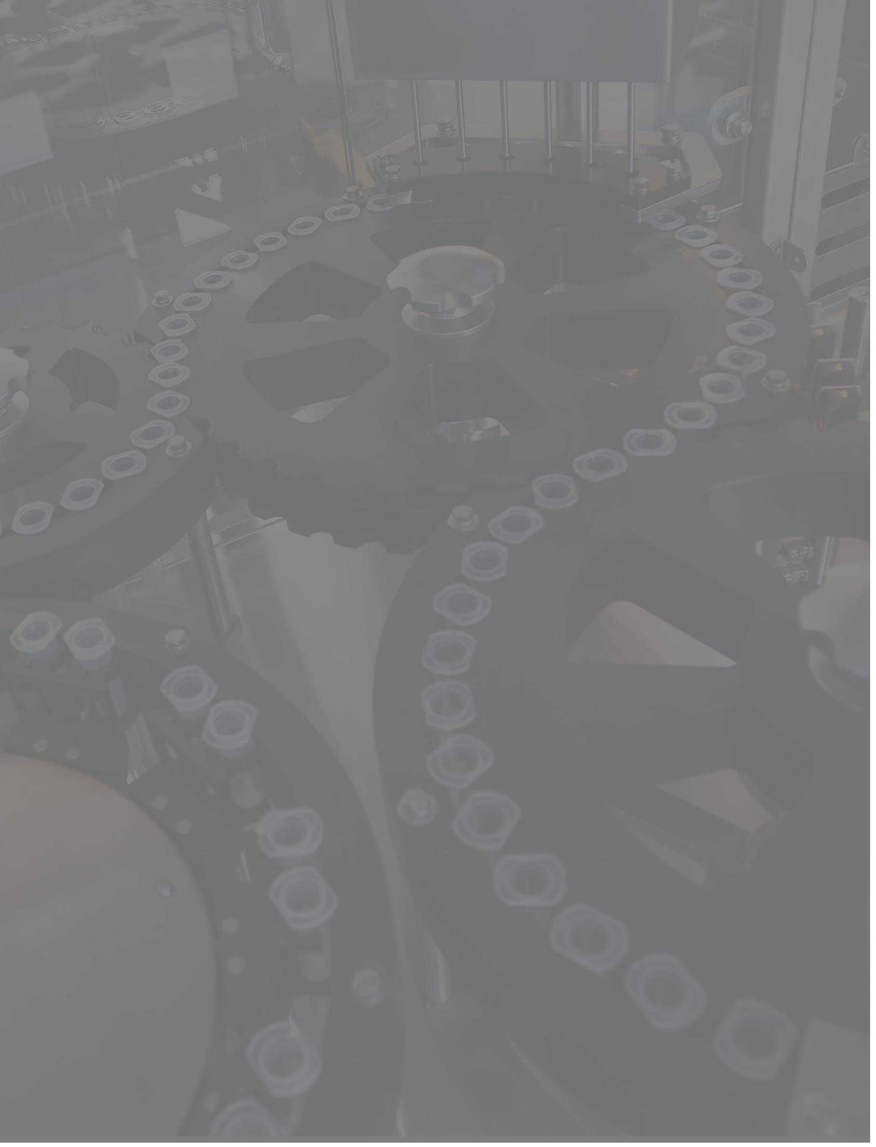
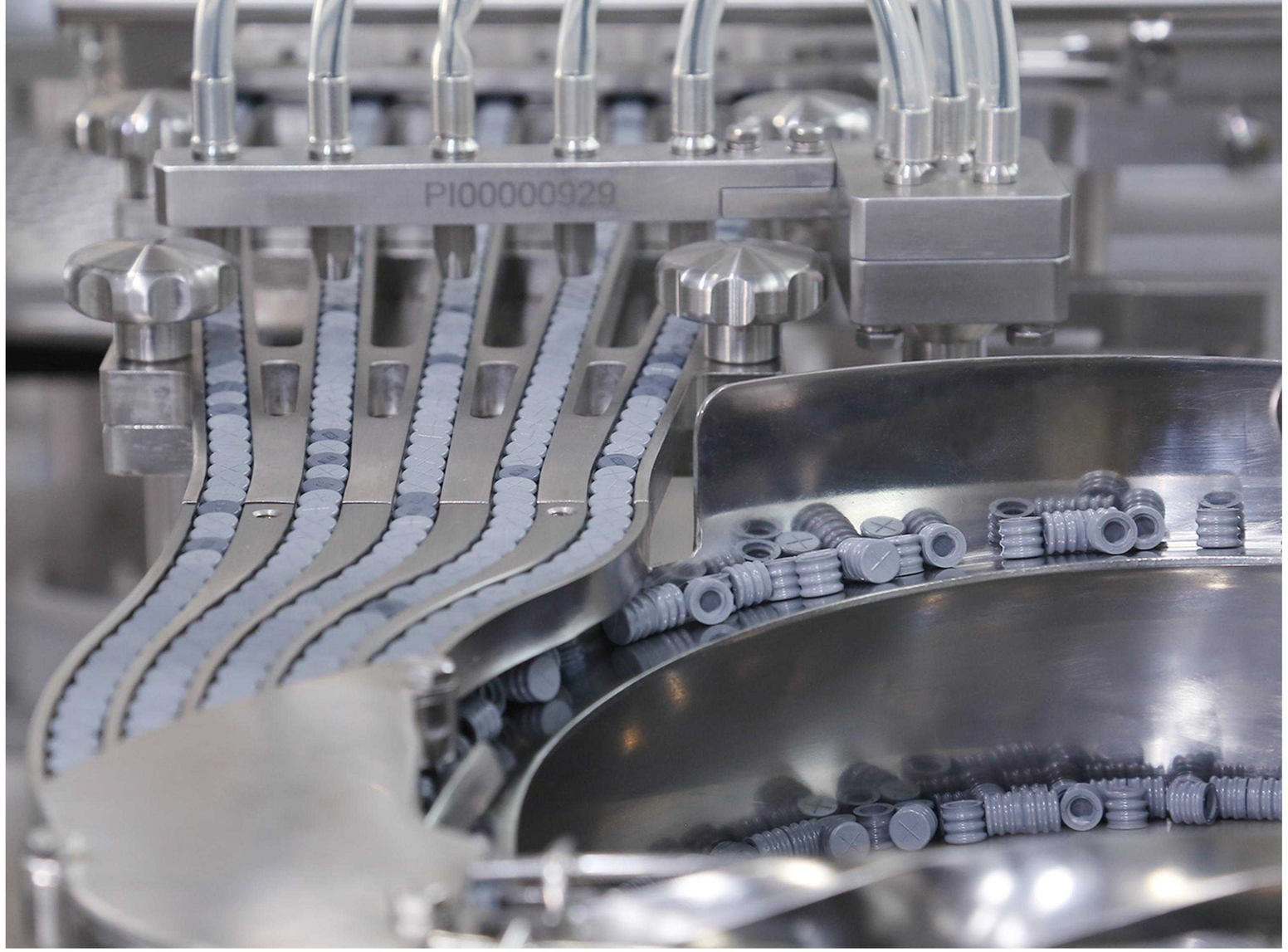




高粘真空灌装解决方案、预灌封真空灌装加塞机系列、预充式导管冲洗器灌装生产线、拧杆贴标机

High viscosity vacuum filling solution、Syringe vacuum filling and closing machine series
Pre-filled flush syringes production line、Plunger rod and labelling machine

朗岱（上海）科技有限公司
LEGGENDA(SHANGHAI)TECHNOLOGY CO.,LTD.

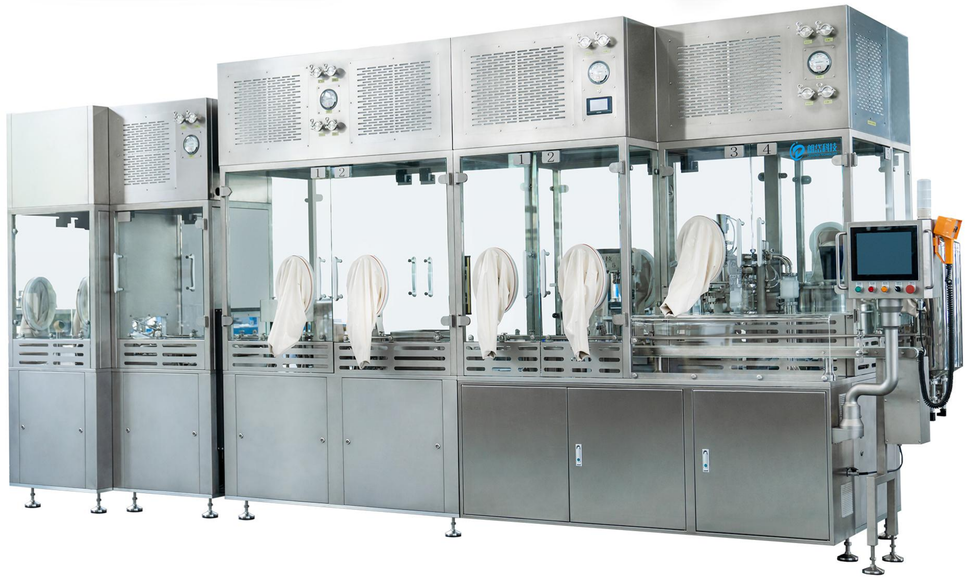
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企业简介

Enterprise Profile

朗岱（上海）科技有限公司成立于 2019 年，总部位于上海，是一家为制药企业提供小容量水针注射剂等自动化制药装备系统的设备与服务供应商。朗岱科技 以专业服务于制药行业为使命，用追求品质为驱动，以更安全、更环保、更先进的专业技术和持续不断创新为制药保驾护航。

公司始终坚持以技术创新，质量优先的产品理念，注重人才的引进和培养，不断加大新品研发的投入和力度，在短短几年间，申请并通过了多项专利。已经完成了预充式导管冲洗器灌装生产线的产品开发，并为多家制药企业提供了高速、整体的解决方案。在高黏产品真空灌装加塞技术领域，我们也走在了行业的前列。面对制药行业的飞速发展和药品生产工艺复杂而独一的特点，公司大力发展核心产品，专注于预灌封灌装设备的研发；目前公司技术人员约占公司人员总数的80%，多数是具有 10 年以上的制药设备行业实战经验的设计工程师和技术工程师。

公司目前的核心产品有：高速预灌封灌装加塞机、全自动真空灌装加塞机、氯化钠预充导管灌装高速线、拧杆贴标机、枕式包装机、脱巢机、收盘机、灯检机、外纸内纸移除机、外袋移除机、多功能灌装机等。

Leggenda (Shanghai) Technology Co., Ltd. was established in 2019. It is headquartered in Shanghai. It is a equipment and service provider of automated pharmaceutical equipment systems such as pharmaceutical companies and small-capacity water syringe. Leggenda Technology takes professional services for the pharmaceutical industry as its mission, drives quality as a driver, and escorts pharmaceutical protection with more secure, more environmentally friendly and more advanced professional technologies and continuous innovation.

The company has always adhered to the product concept with technological innovation and quality priority, and attach importance to the training and cultivation of talents. Continuously increasing the investment and intensity of new product research and development, in just a few years, they have applied for and passed a number of patents already. Completed product development of Pre-filled Flush Syringes high-speed lines, providing high-speed and overall solution for multiple users. In the technical field of high-viscosity products vacuum filling and vacuum stoppering. We take the lead in developing the area.Facing the rapid development of the pharmaceutical industry and the complex and unique characteristics of the production process, the company vigorously develops core products and focuses on the research and development of syringe filling equipment. At present, the company's technicians account for about 80% of the company's total personnel, most of which are design engineers and technical engineers with practical experience in the pharmaceutical equipment industry with more than 10 years.

The current core products of the company are: Pre-filled flush syringes production line;Syringe vacuum filling and closing machine series; Pre-filled flush syringes production line; Plunger rod insertion and labeling machine; Pillow packaging machine; Syringe loading machine; Syringe unloading machine; Syringe inspection machine; Tyvke removal machine; Syringe bag removal machine; Multi -functional filling machine.





Application Area
运用领域

- 水光针产品
  Mesotherapy products
- 交联产品
  Cross-linked products
- 玻尿酸产品
  HydraFacial products
- 胶原蛋白产品
  Collagen protein products
- 羟基磷灰石产品
  Hydroxyapatite products
- 透明质酸产品
  Sodium hyaluronate products
- 凝胶产品
  Gel products
- 高粘液体产品
  High viscosity products
- 微球产品
  Microsphere products

SHLV-2V
预灌封真空灌装加塞机
Syringe Vacuum Filling And Closing Machine



机器主要功能及特点
Main Functions And Features Of The Machine

- 预灌封真空灌装加塞机是一款用于灌装液体类产品的灌装设备。适用于医药、医美等行业的灌装。可根据客户的需求进行定制。

- Syringe vacuum filling and closing machine is a kind of filling equipment for filling liquid products. It is suitable for quantitative liquid filling in pharmaceutical, Aesthetic Medicine.It can be customized and adjusted according to customers' needs.

机器主要技术参数		Main Technical Parameters Of Machine
预充针	Prefilling Syringe	蜂窝巢预充针 Nest Syringe
包装尺寸	Syringe Type	0.5 ml - 20 ml
灌装范围	Filling Volume	0.1 ml - 20 ml
灌装头	Dosing Pump	2-头
性能	Performance	最大(max)1500pcs/h

机器参数		Machine Parameters
灌装方式	Filling Mode	柱塞泵灌装 Piston Pump Dosing
灌装精度	Filling Accuracy	±1.5%（依据药物特性而定） (according to drug characteristics)
设计生产能力	Design Production Capacity	≥1500支/小时(pieces/hour)
灌装真空度调节	Filling Vacuum Adjustment	0~50KPa
加塞真空度调节	Stopper Vacuum Adjustment	0~50KPa
加塞合格率	Stopper Qualification Rate	≥99.9%
设备适用规格	Applicable Equipment Specifications	1ml long /1-3ml/5ml/10ml/20ml 预充针管(prefilling syringe)
设备噪音	Equipment Noise	≤70分贝(decibel)
外形尺寸	Outline Dimension	2200mm*1070mm*2600mm
电源及功率	Power Supply And Power	380V 50HZ

部件介绍

Component Introduction



01 | 真空灌装真空加塞回气装置

Vacuum Filling, Vacuum Stoppering And Venting Device

02 | 胶塞震荡斗

Stopper Sorting Bowl

03 | 西门子操作高清大屏

Siemens Operation High Definition Large Screen

04 | 不锈钢中心盘夹紧装置

Stainless Steel Center Clamping Device



不锈钢洁净管道

Stainless Steel Clean Tube



不锈钢真空腔

Stainless Steel Vacuum Chamber



全伺服灌装系统

Full Servo Filling System



全套西门子控制单元

Siemens Control Unit



精抛储气罐

Vacuum Storage Tank



德国SICK安全光栅

法国凯茂风速传感器

Germany SICK Safety Light Curtain

France Kimo Air Speed Sensor



客户现场灌装照片



灌装样品

Application Area
运用领域

- 水光针产品
  Mesotherapy products
- 交联产品
  Cross-linked products
- 玻尿酸产品
  Hyaluronic acid products
- 胶原蛋白产品
  Collagen protein products
- 羟基磷灰石产品
  Hydroxyapatite products
- 透明质酸产品
  Sodium hyaluronate products
- 凝胶产品
  Gel products
- 高粘液体产品
  High viscosity products
- 微球产品
  Microspheres products

SHLV-5V
全自动预灌封真空灌装加塞线<一>
Fully Automatic Syringe Vacuum Filling And Closing Line

机器主要功能及特点
Main Functions And Features Of The Machine

- 全自动预灌封真空灌装加塞机其用途广泛，运行稳定、性能可靠、设计合理。该设备操作简便，灌装精确度高。适用于医药、医美等行业的灌装。可根据客户的需求进行定制。
- Fully automatic syringe vacuum filling and closing line is widely used, stable operation, reliable performance and reasonable design. And the equipment is easy to operate and has high filling accuracy. It is mainly used for filling quantitative high viscosity liquid in pharmaceutical, Aesthetic Medicine. It can be customized and adjusted according to customers' needs.

机器主要技术参数		Main Technical Parameters Of Machine
灌装方式	Filling Mode	柱塞泵灌装 Piston Pump Dosing
灌装精度	Filling Accuracy	±1.5%（依据药物特性而定） (according to drug characteristics)
设计生产能力	Design Production Capacity	≥4500支/小时（1-3ml）(pieces/hour)
灌装真空度调节	Filling Vacuum Adjustment	0~50KPa
加塞真空度调节	Stopper Vacuum Adjustment	0~50KPa
加塞合格率	Stopper Qualification Rate	≥99.9%
设备适用规格	Applicable Equipment Specifications	1ml long /1-3ml/5ml/10ml/20ml 预充针管(prefilling syringe)
设备噪音	Equipment Noise	≤70分贝(decibel)
外形尺寸	Outline Dimension	整线 5600mm*2150mm*2600mm（whole line）
电源及功率	Power Supply And Power	380V 50HZ





部件介绍

Component Introduction

-全伺服灌装系统精度最高可达±1%(依据药物特性而定)
-高精度陶瓷柱塞泵更适合高黏度产品灌装
-316L不锈钢灌装针
-316L分液器
-专门为高黏度定制的储液罐

-Full servo filling system
-Filling accuracy ±1%(according to drug characteristics)
-The high-precision ceramic piston pump is more suitable for filling high-viscosity products
-316L stainless steel dosing needle
-Specially customized for high-viscosity storage tank

不锈钢中心盘夹紧装置
-X/Y全自动高精度移动伺服轴
-西门子CPU控制单元和西门子伺服控制器及伺服轴
-中心盘自动打开装置

Stainless Steel Center Clamping Device
-X/Y fully automatic high-precision moving servo unit
-Siemens CPU control unit and Siemens servo controller
-Automatic opening device

德国SICK安全光栅
法国凯茂风速传感器
Germany SICK Safety Light Curtain
France Kimo Air Speed Sensor



西门子操作高清大屏
-设备配有点动手柄，更方便调试维修
-批次报告生成
-配方存储功能

Siemens Operation High Definition Large Screen
-The equipment is equipped with a jog handle
-Batch report
-Recipe storage function

西门子操作高清大屏
Siemens Operation High Definition Large Screen

针盒进料同步带
Tubs Transfer Conveyor

真空灌装真空加塞回气装置
-单独控制真空灌装，管路配有囊氏过滤器和卫生级隔膜阀，做到100%洁净
-单独控制真空加塞，管路配有囊氏过滤器和卫生级隔膜阀，做到100%洁净
-真空灌装真空加塞回气装置，管路配有囊氏过滤器和卫生级隔膜阀，做到100%洁净
-真空管路配有高精度真空传感器，有效的显示和监控回路的真空度
-更换和调节方便

Vacuum Filling, Vacuum Stoppering And Venting Device
- Vacuum filling is controlled separately, the tubeis equipped with a Microfilters and a sanitary diaphragm valve to achieve 100% cleanliness
- Vacuum stoppering is controlled separately, and the tubeis equipped with a Microfilters and a sanitary diaphragm valve to achieve 100% cleanliness
- Vacuum filling, vacuum stoppering and ventingdevice, the tubeis equipped with a Microfilters and a sanitary diaphragm valve to achieve 100% cleanliness
-The vacuum tubeis equipped with a high-precision vacuum sensor, which can effectively display and monitor the vacuum of the circuit

-工作方式: 加热式开盒
-适用针盒规格:所有预充针盒
-设计生产能力:≥3盒/分钟
-内纸移除形式:真空吸附加机械手
Working method: Heating type opening box,
Applicable syringe tub Specifications: all pre-filled syringe tubs
Design production capacity: ≥3 tubs/min
Inner Tyvek removal method: vacuum adsorption plus manipulator

-针盒升降全伺服控制
-温度恒定控制
-Full servo control of syringe tub lifting
-Constant temperature control

针盒外袋储存箱
Carriage for bags

切外袋单元
针盒转移及外袋回收单元
Cutting Device
Tubs Transfer Unit With Bag Disposal

SHLV-5V
全自动预灌封真空灌装加塞线<二>
Fully Automatic Syringe Vacuum Filling And Closing Line

机器主要功能及特点
Main Functions And Features Of The Machine

- 全自动预灌封真空灌装加塞机其用途广泛，运行稳定、性能可靠、设计合理。该设备操作简便，灌装精确度高。适用于医药、医美等行业的灌装。可根据客户的需求进行定制。
- Fully automatic syringe vacuum filling and closing line is widely used, stable operation, reliable performance and reasonable design. And the equipment is easy to operate and has high filling accuracy. It is mainly used for filling quantitative high viscosity liquid in pharmaceutical, Aesthetic Medicine. It can be customized and adjusted according to customers' needs.



机器主要技术参数		Main Technical Parameters Of Machine
灌装方式	Filling Mode	柱塞泵灌装 Piston Pump Dosing
灌装精度	Filling Accuracy	±1.5%（依据药物特性而定） (according to drug characteristics)
设计生产能力	Design Production Capacity	≥4500支/小时（1-3ml）(pieces/hour)
灌装真空度调节	Filling Vacuum Adjustment	0~50KPa
加塞真空度调节	Stopper Vacuum Adjustment	0~50KPa
加塞合格率	Stopper Qualification Rate	≥99.9%
设备适用规格	Applicable Equipment Specifications	1ml long /1-3ml/5ml/10ml/20ml 预充针管(prefilling syringe)
设备噪音	Equipment Noise	≤70分贝(decibel)
外形尺寸	Outline Dimension	单机 1950mm*1620mm*2600mm（single machine） 整线 4950mm*2150mm*2600mm（whole line）
电源及功率	Power Supply And Power	380V 50HZ



部件介绍
Component Introduction

德国SICK安全光栅
法国凯茂风速传感器
Germany SICK Safety Light Curtain
France Kimo Air Speed Sensor

-针盒升降全伺服控制
-温度恒定控制
-Full servo control of syringe tub lifting
-Constant temperature control

-全伺服灌装系统精度最高可达±1%(依据药物特性而定)
-高精度陶瓷柱塞泵更适合高黏度产品灌装
-316L不锈钢灌装针
-316L分液器
-专门为高黏度定制的储液罐

-Full servo filling system
-Filling accuracy ±1%(according to drug characteristics)
-The high-precision ceramic piston pump is more suitable for filling high-viscosity products
-316L stainless steel dosing needle
-Specially customized for high-viscosity storage tank

不锈钢中心盘夹紧装置
-X/Y全自动高精度移动伺服轴
-西门子CPU控制单元和西门子伺服控制器及伺服轴
-中心盘自动打开装置

Stainless Steel Center Clamping Device
-X/Y fully automatic high-precision moving servo unit
-Siemens CPU control unit and Siemens servo controller
-Automatic opening device



-双手安全球操作：更安全可靠
-适用针盒规格:所有针盒
-设计生产能力：3盒/分钟
-开袋成功率：100%

-Two-handed safety ball operation: safer and more reliable
-Applicable syringe tub specifications: all syringe tub
-Designed production capacity: 3 tubs/min
-Success rate of bag opening: 100%

西门子操作高清大屏
-设备配有点动手柄，更方便调试维修
-批次报告生成
-配方存储功能

Siemens Operation High Definition Large Screen
-The equipment is equipped with a jog handle
-Batch report
-Recipe storage function

大吸力德国进口贝克真空泵
-机械手全伺服上下运动控制

Large Suction German Baker Vacuum Pump
-Full servo up and down motion control of manipulator

-工作方式：加热式开盒
-适用针盒规格:所有预充针盒
-设计生产能力:≥3盒/分钟
-内纸移除形式:真空吸附加机械手
Working method: Heating type opening box,
Applicable syringe tub Specifications: all pre-filled syringe tubs
Design production capacity: ≥3 tubs/min
Inner Tyvek removal method: vacuum adsorption plus manipulator

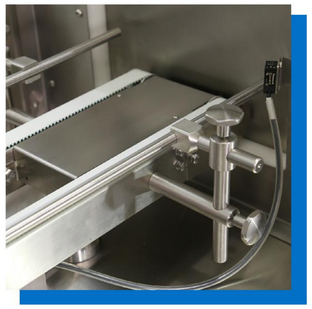
真空灌装真空加塞回气装置
-单独控制真空灌装，管路配有囊氏过滤器和卫生级隔膜阀，做到100%洁净
-单独控制真空加塞，管路配有囊氏过滤器和卫生级隔膜阀，做到100%洁净
-真空灌装真空加塞回气装置，管路配有囊氏过滤器和卫生级隔膜阀，做到100%洁净
-真空管路配有高精度真空传感器，有效的显示和监控回路的真空度
-更换和调节方便

Vacuum Filling, Vacuum Stoppering And Venting Device
- Vacuum filling is controlled separately, the tubeis equipped with a Microfilters and a sanitary diaphragm valve to achieve 100% cleanliness
- Vacuum stoppering is controlled separately, and the tubeis equipped with a Microfilters and a sanitary diaphragm valve to achieve 100% cleanliness
- Vacuum filling, vacuum stoppering and ventingdevice, the tubeis equipped with a Microfilters and a sanitary diaphragm valve to achieve 100% cleanliness
-The vacuum tubeis equipped with a high-precision vacuum sensor, which can effectively display and monitor the vacuum of the circuit

胶塞震荡斗
-胶塞配有震荡锅和震荡轨道，
-震荡斗为快锁震荡斗，方便拆卸。
-震荡斗、震荡轨道、材质均为316L不锈钢
-胶塞缓冲室：储存胶塞方便加塞
-震荡斗最小量传感器
-轨道最小量传感器

Stopper Sorting Bowl
-The stopper is equipped with a sorting bowl and a linear track
-The sorting bowl is a quick-lock and easy disassembly
-The sorting bowl and the linear track are all made of 316L stainless steel
-Stopper buffer room: store the stopper for easy add
-The minimum amount sensor of the sorting bowl
-The minimum amount sensor of the Linear track

部件介绍
Component Introduction



Airlock 全自动不锈钢升降门
Airlock Fully Automatic
Stainless Steel Auto Gate



静音同步带
-针盒累计最大量挡块

Mute Synchronous Belt
-Syringe tub accumulative
maximum stopper



全伺服机械手抓取工位
Full Servo Pickup Station



-灌装方式:柱塞泵或者蠕动泵
-加塞方式：真空加塞或者机械式加塞
-灌装精度:±1% （1ml 装量）
（依据药物特性而定）

-Filling method: piston pump or peristaltic pump
-Stoppering method:vacuum stoppering
or mechanical stoppering
-Filling accuracy: ±1% (1ml volume)
(according to drug characteristics)



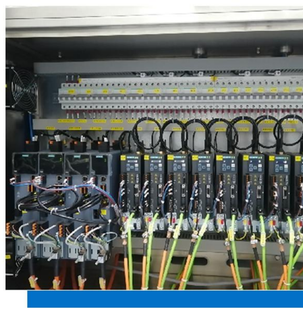
不锈钢真空腔
Stainless Steel
Vacuum Chamber



不锈钢洁净管道
Stainless Steel Clean Tube



精抛储气罐
Vacuum Storage Tank



全套西门子控制单元
Siemens Control Unit



西门子操作高清大屏
-设备配有点动手柄，更方便调试维修
-批次报告生成
-配方存储功能

Siemens Operation HMI
- The equipment is equipped with a jog button
more convenient for debugging and maintenance
- Batch report generation
- Recipe storage function

LZSF-6
预充导管冲洗器高速灌装机
Pre-Filled Syringes Flushing High-Speed Filling Machine

机器主要功能及特点
Main Functions And Features Of The Machine

- 氯化钠预充导管冲洗器高速灌装机主要运用于医药生理盐水的灌装。其结构简单，速度快，性能稳定，装量精度高，提高生产效率。可根据客户的需求进行定制。
- Sodium chloride pre-filled syringes flushing high-speed filling machine is is mainly used for filling liquid in pharmaceutical, normal saline. It has simple structure, high speed, stable performance, high filling accuracy, improved production efficiency. It can be customized and adjusted according to customers' needs.



机器主要技术参数		Main Technical Parameters Of Machine
灌装方式	Filling Mode	柱塞泵灌装 Piston Pump Dosing
灌装精度	Filling Accuracy	±1.5%（依据药物特性而定） (according to drug characteristics)
设计生产能力	Design Production Capacity	≥12000支/小时(pieces/hour)
硅油喷涂控制	Silicone Oil Spraying Control	0.5mg-2mg之间调节，产品间的差异小于10% 0.5mg-2mg,and the difference between products is less than 10%.
拧帽合格率	Screw Cap Qualification Rate	≥99.9%
加塞合格率	Stopper Qualification Rate	≥99.9%
灌装范围	Filling Volume	0.2 - 20 ml
设备噪音	Equipment Noise	≤70分贝(decibel)
外形尺寸	Outline Dimension	单机 5900mm*2400mm*2600mm(single machine)
电源及功率	Power Supply And Power	380V 50HZ



灌装试管

部件介绍
Component Introduction

针管存储单元
-食品级提升皮带
-大容量针管储存

Syringe Storage Unit
-Food-grade lifting belt
-Large-capacity syringe storage

进料工位
Infeed Station

灌装单元
Filling Unit

加塞单元
Stopper Unit

Siemens Operation High-Definition Large Screen
-The equipment is equipped with a jog handle
-Batch report
-Recipe storage function

西门子操作高清大屏
-设备配有点动手柄，更方便调试维修
-批次报告生成
-配方存储功能



针管理料工位
-双离心理料单元
-德国进口离心机皮带，长寿命容易更换
-进口POM加工而成，不伤针管外壁

Sytinge Sorter Unit
-Double centrifugal material unit
-Centrifuge belt imported from Germany
long life and easy to replace
-Made of imported POM, does not damage
the outer wall of the syringe

Syringe Linear Track
-Adjustable frequency converter
-Maximum and minimum quantity sensor
-Smooth feeding, no damage to the syringe

针管直线震动送料轨道
-可调节变频器
-最大量最小量传感器
-送料平稳，不伤针管

喷硅油工位
Silicone Spray Station

针管过渡花盘
Syringe Excessive Star Wheel

离子风清洗工位
Ionic Air Cleaning Station

灌装工位
Filling Station

针管环形轨道
-THK 日本进口环形轨道，高精度长寿命
-进口POM针管夹持模具，容易更换，调节
-对5ml/10ml 针管几乎不要更换模具（相同外径）

Syringe Ring Guide
-THK Japan imported ring track, high precision and long life
-Imported POM syringe clamping format parts easy to replace and adjust
-Almost no need to change the format parts for 5ml/10ml syringe
(same outer diameter)

部件介绍
Component Introduction



护帽输送工位
Cap Transfer Unit



护帽检测工位
Cap Inspection Unit



电器元件
Electrical Components



胶塞输送存储单元
Stopper Transfer And Storage Staiton



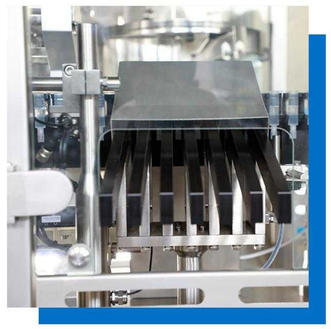
-德国SICK安全光栅
-法国凯茂风速传感器
-开门停机功能
-Germany SICK Safety Light Curtain
-France Kimo Air Speed Sensor
-Door Opening And Shutdown Function



不锈钢电控柜
国际标准
Stainless Steel Electric Control Cabinet
International Standard



视觉检测单元
Visual Inspection Unit



剔除单元
Reject Unit



伺服拧帽站
Servo Cap Tightening Station

拧杆贴标机

Plunger Rod And Labelling Machine



机器参数		Machine Parameters
工作方式	Working Mode	拧杆和贴标 Plunger Rod And Labeling
适用针管规格	Applicable Syring Especifications	玻璃及塑料针管 Glass/ PP syringe
打印方式	Printing Mode	热转印打印方式 Thermal Transfer Over-printers
生产能力	Production Capacity	≥200 pcs/min
标签缺失检测	Label Missing Detection	≥99.9%
打印合格率	Printing Inspection Pass Rate	≥99.9%
拧杆方式	Plunge Rod Mode	伺服拧杆 Servo Plunger Rod
拧杆工位	Plunger Rod Station	20工位 20-stations
推杆有无剔除	Plunger Rod Present Reject	100%
推杆高低检测剔除	Plunger Rod Hight Reject	≥99.9%
不良品剔除率	Defective Product Rejection	≥99.9%
外形尺寸	Dimensions	1900*3200*1900（含推杆提升机）
电源及功率	Electric Supply And Power	380V 50HZ
噪音	Noise	≤70分贝(decibel)
贴标精度	Labeling Accuracy	±0.5mm



01 | 高速贴标头

Labeling Unit



02 | 打印质量检测相机

Print Quality Inspection Camera



03 | 西门子操作高清大屏

Siemens Operation
High Definition



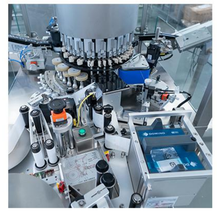
04 | 标签有无检测相机

Labeling Inspection
Camera



05 | 20工位拧杆单元

20-station Insertion Unit



06 | 伺服拧杆控制单元

Servo Plunger Rod
Insertion Unit

合作客户

Cooperative Customer

华熙生物 BIOACTIVE BLOOMAGE BIOTECH 生物活性物

FREDA 福瑞达医药

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B BRAUN SHARING EXPERTISE 贝朗医疗（山东）有限公司

amhwa 安华

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林华 Linhwa

景嘉医疗 JINGJIA MEDICAL

昊海生物科技 Haohai Biological Technology

创健医疗 TRAUTEC

千红制药 Qianhong Bio-pharma

JIANYU 一健裕健康医疗一

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BIO BIO-REGEN.MED 佰傲再生

SINGCLEAN 杭州协合医疗用品有限公司

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TIANYAN BIOTECH 浙江天颜生物

美药星（南京）制药有限公司

普丽妍

wedu 微度

HopePharma 浙江好博药业有限公司

Sofiderm 思伊美

贝泰妮

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