

## 液体灌装系统

## Liquid Filling System



灌装生产线通常由理瓶机、灌装机、旋盖机、贴标机等组成。主要应用于洗发水、沐浴露、润肤露、洗手液、蔗糖、蜂蜜、果汁、饮料、医药化工液体等高流度液体产品。

Liquid filling systems usually include bottle unscrambler,filling machine,capping machine,labeling machine and so on. They are suitable for beverage, pharmaceutical, food,cosmetics,daily chemical industry and other products filling with customization

# HUILIDE<sup>®</sup>

苏州汇利得机械有限公司  
Suzhou Huilide Machine Co.,Ltd

液体灌装方案

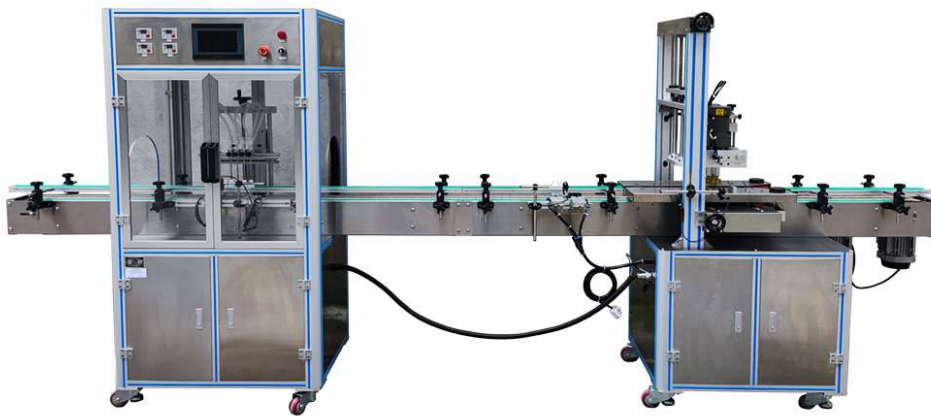
Liquid Filling Solutions

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## 设备适用范围

适用于各种高流量液体



白酒



饮料



化妆品



酒精



医药



洗发水



香水



农药



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主要应用于洗发水、沐浴露、润肤露、洗手液、蔗糖、蜂蜜、果汁、饮料、医药化工液体等高流度液体产品。

选用:

理瓶机

旋盖机

铝箔封口机

Suitable for beverage,pharmaceutical,food,cosmetics,daily chemical industry and other products filling with customization.

Optional:

automatic turntable bottle unscrambling machine:directly connected to the front production line,automatic bottle feeding into the cap to increase efficiency

Automatic cover down machine:reduce labor cost,improve production efficiency

Aluminum foil sealing machine:reduce labor cost,improve production efficiency

技术参数 Technical parameters	<p>以下为标准机型技术参数，其他特殊功能和要求，可量身定做</p> <p>Technical parameters below is standard model,special functions and requirements can be customized</p>
型号 Model	FM-01
灌装精度 Filling accuracy	+/-1%
灌装速度 Filling speed	30-50 瓶/分钟（以 100ML 水测试）
旋盖产品范围 Screw cap size	20-65mm(盖子直径)
整机尺寸 Whole machine size	4000x750x1700mm(长 x 宽 x 高)
电源 Power supply	AC 220V/110V/50Hz
气源 Gas	0.5-0.8MPa
整机重量 Total weight	100-200kg



## 旋盖机 Capping machine

主要应用于洗发水、沐浴露、润肤露、洗手液、蔗糖、蜂蜜、果汁、饮料、医药化工液体等产品的旋盖。

选用:

理瓶机

旋盖机

铝箔封口机

Suitable for beverage,pharmaceutical,food,cosmetics,daily chemical industry and other products capping with customization.

Optional:

automatic turntable bottle unscrambling machine:directly connected to the front production line,automatic bottle feeding into the cap to increase efficiency

Automatic cover down machine:reduce labor cost,improve production efficiency

Aluminum foil sealing machine:reduce labor cost,improve production efficiency

技术参数 Technical parameters	以下为标准机型技术参数，其他特殊功能和要求，可量身定做 Technical parameters below is standard model,special functions and requirements can be customized
型号 Model	CM-01
旋盖速度 Capping speed	50-60 瓶/分钟
盖子尺寸 Screw cap size	20-65mm(盖子直径)
瓶子宽度 bottle width	40-90mm
整机尺寸 Whole machine size	L.2000 x W.650 x H.1650mm
电源 Power supply	AC 220V/110V/50Hz
气源 Gas	0.5-0.8MPa
整机重量 Total weight	100-200kg

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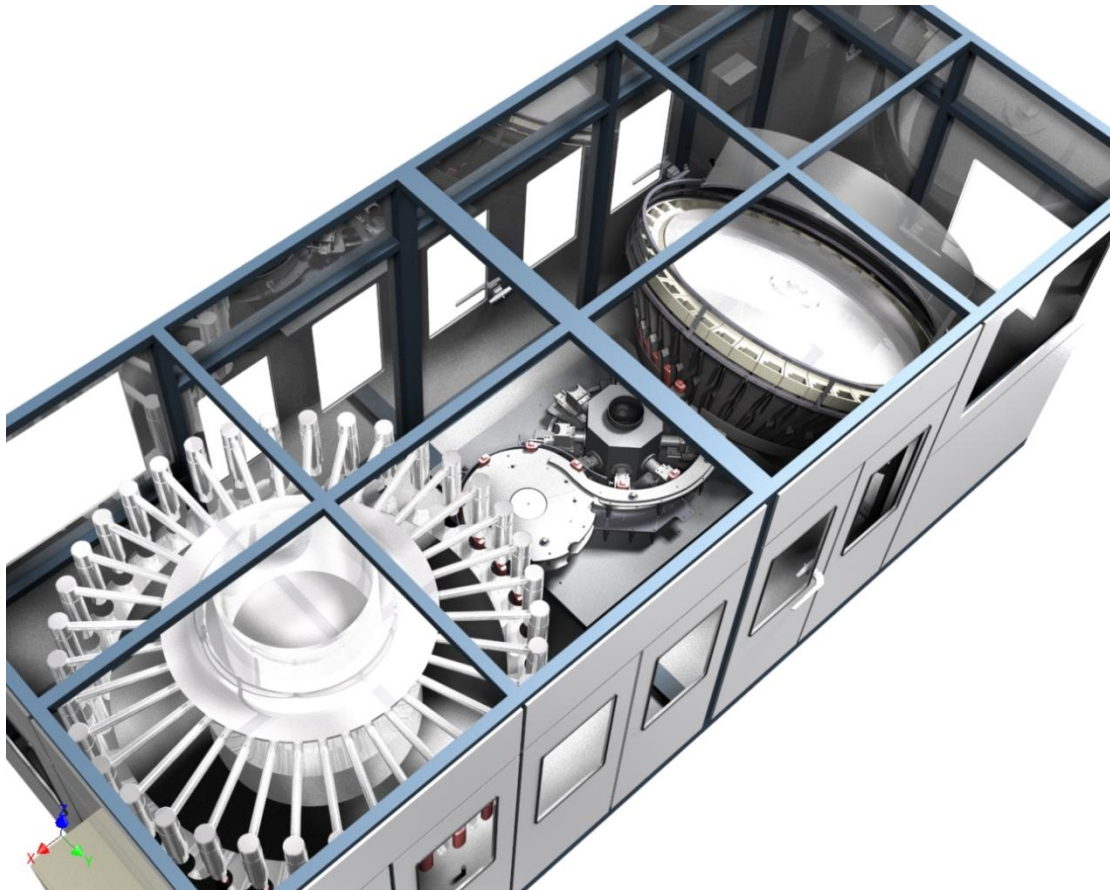
Add:No.5-1,Donghenggang street,  
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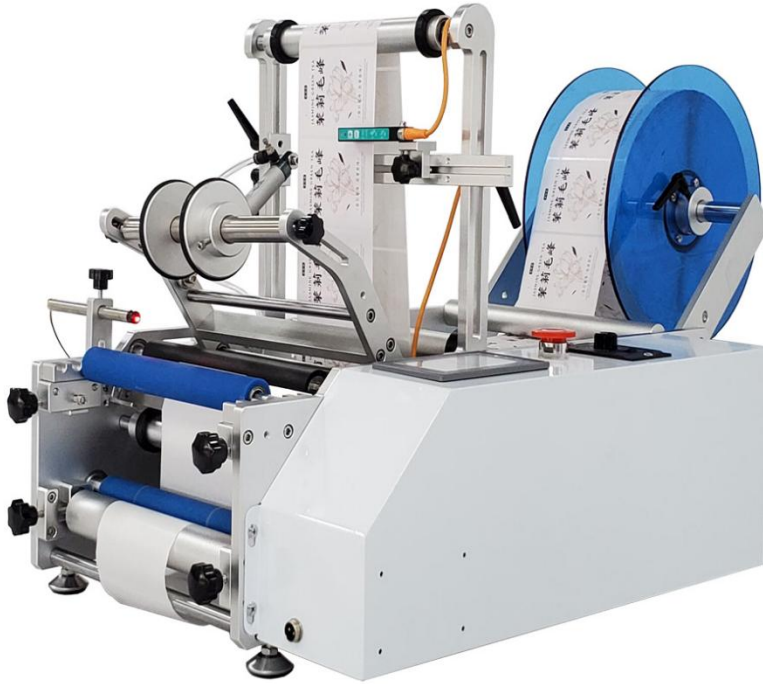
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理瓶、灌装和旋盖一体高速机: Bottle unscrambler,rotation filling machine and rotation capping machine as one machine with high speed.





### 半自动圆瓶贴标机 Semi-automatic round bottle labeling Machine

适用于各种规格的圆柱物体贴标，小锥度圆瓶贴标，比如化妆品圆瓶、酒瓶等。可实现全周/半周贴标、圆周正背面贴标，正背标间距可任意调整。广泛应用于食品、化妆品、化工、酿酒、医药等行业。可选配固定检测装置，实现圆周定位定点贴标。可选配色带打码机，贴标同时打印生产批号，生产日期，有效期至等信息，贴标、打码一步完成，大大提高生产效率。

Suitable for all kinds of cylindrical objects labeling, small taper round bottle labeling, such as cosmetics round bottles, wine bottles etc. Can achieve wrap around labeling, front and back labeling, labels pitch can be adjusted.

技术参数 Technical parameters	以下为标准机型技术参数，其他特殊功能和要求，可量身定做 Technical parameters below is standard model, special functions and requirements can be customized
型号 Model	SLM-01
贴标精度 Labeling accuracy	+/-0.5mm(不含产品、标签误差)
贴标速度 Labeling speed	15-30 个/分钟 (与产品尺寸有关)
适用产品直径 Product diameter	10-150mm
适用标签尺寸 Applicable label size	长度：20-300mm, 底纸宽度：20-230mm

整机尺寸 Whole size	约 913x495x502mm(长 x 宽 x 高)
整机重量 Weight	约 34kg
适用标签内径 Applicable label roll inner dia.	76mm
适用标签外径 Applicable label roll outer dia.	280mm
电源 Power supply	220V/110V/50Hz



### 全自动搓滚式圆瓶贴标机 Full automatic wrap round bottle labeling Machine

适用于各种规格的圆柱物体贴标，小锥度圆瓶贴标，比如化妆品圆瓶、酒瓶等。可实现全周/半周贴标、圆周正背面贴标，正背标间距可任意调整。广泛应用于食品、化妆品、化工、酿酒、医药等行业。可选配固定检测装置，实现圆周定位定点贴标。可选配色带打码机，贴标同时打印生产批号，生产日期，有效期至等信息，贴标、打码一步完成，大大提高生产效率。

Suitable for all kinds of cylindrical objects labeling, small taper round bottle labeling, such as cosmetics round bottles, wine bottles etc. Can achieve wrap around labeling, front and back labeling, labels pitch can be adjusted.

技术参数 Technical parameters	以下为标准机型技术参数，其他特殊功能和要求，可量身定做 Technical parameters below is standard model, special functions and requirements can be customized
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型号 Model	FLM-01
贴标精度 Labeling accuracy	+/-1mm(不含产品、标签误差)
贴标速度 Labeling speed	40-120 个/分钟 (与产品尺寸有关)
适用产品直径 Product diameter	20-80mm
适用标签尺寸 Applicable label size	长度: 20-300mm,底纸宽度: 20-95mm
整机尺寸 Whole size	约 2130x1150x1260mm(长 x 宽 x 高)
整机重量 Weight	约 213kg
适用标签内径 Applicable label roll inner dia.	76mm
适用标签外径 Applicable label roll outer dia.	280mm
电源 Power supply	220V/110V/50Hz



### 低速理瓶机 Bottle unscrambler with low speed

将无序的瓶子有规律的、整齐的输送到生产线上,此设备可节省人力成本,提高生产率,适用于各种形状和尺寸的瓶子。

Bottle unscrambler is designed to provide oriented bottles to the production line.It is perfect labor-saving equipment.It operates with great simplicity,efficiency and minimal maintenance. And suitable for a wide variety of bottle shapes and sizes.

技术参数 Technical parameters	以下为标准机型技术参数,其他特殊功能和要求,可量身定做 Technical parameters below is standard model,special functions and requirements can be customized
型号 Model	BU-01
速度 Speed	60-80 瓶/分钟

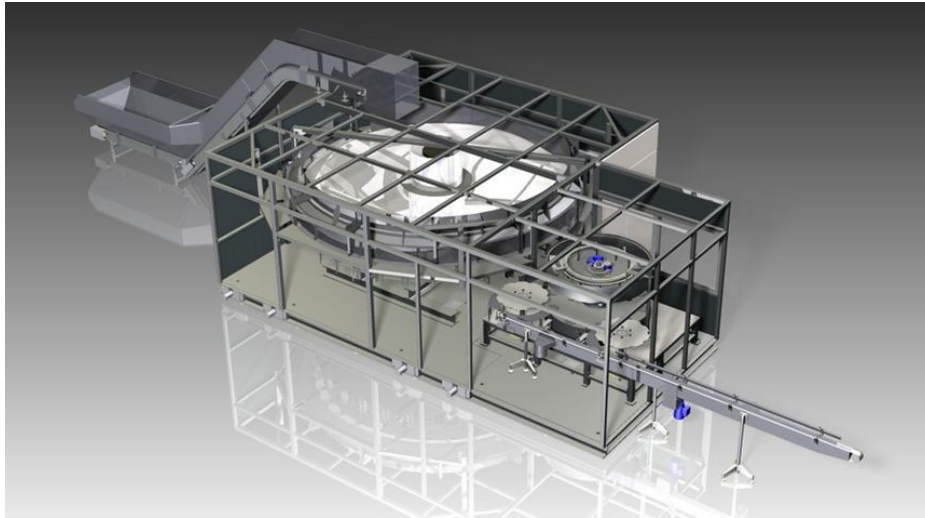
瓶直径 Bottle diameter	50-130mm
瓶高度 Bottle height	50-300mm
整机尺寸 Whole size	L. 2500 x W.3420 x H.2170mm
电源 Power supply	AC 220V/110V/50Hz
气源 Gas	0.5-0.8MPa



### 中速理瓶机 Bottle unscrambler with middle speed

是用于最高 140 毫米瓶高最快速度 200 瓶/分钟。紧凑的结构不要任何工具或者调整就可以进行规格件的调整操作。

The solution for unscrambling bottles, flasks, pharma vials, etc. up to 140 mm high for production levels, reaching up to 200 bpm. This is an ultra-compact model that requires no tools or adjustments for the changeover operation.



### 高速理瓶机 Bottle unscrambler with high speed

该型号配备多个转盘，设计简单，低成本高效率，特别适合于高速生产线。

For large production levels, sometimes it is preferable to have several bowls for greater simplicity and cost efficiency. It is suitable for high speed line.



### 机械手理瓶机 Robotic bottle unscrambler

机械手理瓶机在自动定位领域具有巨大优势，鉴于某些瓶子的复杂设计及其精准的操作，这一领域变得越来越重要。其主要特点是：

- 即时且无需工具的格式更改：可以使用触摸屏快速、即时地更改格式，无需工具。
- 多格式：它允许您使用不同的几何形状和材料，从小型到大型 5000 毫升，无需对设备进行机械调整。
- 高速：它允许您以高达 300 un/min 的速度工作，始终保证交付到生产线的容器的稳定性。
- 复杂的生产线：快速安全地处理需要定向的不对称容器，以便随后进行灌装或贴标。多种模块化配置的可能性，用于在所有类型的圆盘或导丝盘上定位，甚至可以在同一台机器上使用或不使用圆盘。
- 占地面积小：考虑到我们客户工厂的空间成本，紧凑且尺寸小，旨在方便运输，还允许客户轻松地将其移动到其他生产线或工厂。
- 几乎零维护：由于系统简单且不使用复杂的机电一体化系统，几乎不需要维护或专业人员。
- 容器的精准操作：在定位精细瓶子（化妆品、PET、丝网印刷等）方面的丰富经验已被应用。避免任何可能标记或损坏容器表面的机械部件。在检测前，我们的设备不使用刷子、振荡器或通道来预定位瓶子。
- 新格式：由于不需要工具或复杂的编程，因此降低了引入新格式的成本和周期。
- 行业 4.0：适应每个客户的特殊需求：与集中列表管理系统的通信、警报和其他信息的传递、可追溯性、诊断、预测性维护等

This robotic unscrambler offers great advantages in the automatic positioning sector, which is increasingly critical given the complex designs of some bottles and their delicate handling. Its main features are:

- INSTANT AND TOOL-FREE FORMAT CHANGES: The format can be changed quickly and instantly, without tools, using a touch screen.
- MULTIFORMAT: It allows you to work from small to large formats of 5000 ml, with different geometric shapes and materials, and without the need to make mechanical adjustments to the equipment.
- HIGH SPEED: It allows you to work at speeds of up to 300 un/min, guaranteeing the stability of the containers delivered to the line at all times.

- **COMPLEX LINES:** Fast and safe handling asymmetrical containers that require orientation, for subsequent filling or labelling. Possibility of multiple modular configurations for positioning on lines of all types of pucks or godets, and even the possibility of working with or without pucks with the same machine.
- **FOOTPRINT:** Being aware of the costs posed by space in our clients' factories, being compact and with small dimensions designed to facilitate transport also allows the client to move it to other lines or factories easily.
- **ALMOST ZERO MAINTENANCE:** Due to the simplicity of the system and as it does not use complex mechatronic systems, it requires virtually no maintenance or qualified personnel.
- **DELICATE TREATMENT OF CONTAINERS:** our extensive experience positioning delicate bottles (cosmetics, PET, screen printed, etc.) has been channelled into the robotic bottle unscrambler. Any mechanical part that can mark or damage the surfaces of the containers is avoided. Our equipment does not use brushes, vibrators or channels to pre-position the bottles before detection.
- **NEW FORMATS:** As it does not require tools or complex programming, the costs and deadlines for the introduction of new formats are reduced.
- **INDUSTRY 4.0:** We adapt to the particular needs of each client: communication with a centralized list management system, delivery of alarms and other information, traceability, diagnosis, predictive maintenance, etc.



全自动电磁感应铝箔封口机 Automatic Electromagnetic induction aluminum foil sealing machine

广泛应用于食品、化妆品、化工、酿酒、医药等行业的产品铝箔封口，支持定做。  
可搭配自动理瓶机，自动送瓶进入封口，增加效率，减少人工成本。

Suitable for beverage,pharmaceutical,food,cosmetics.Aluminum foil sealing products of daily chemical industry with customization.

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<p>型号 Model</p>	<p>FSM-01</p>



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冷却方式 Cooling	风冷 Gas cooling
封口速度 Sealing speed	15-60mm (可定做)
封口高度 Sealing height	10-350mm
整机尺寸 Whole size	L.900 x W.550 x H.450mm
整机重量 Weight	20-50kg
电源 Power supply	220V/110V/50Hz