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AUTOMATION
APPLICATION IN PLASTIC
INDUSTRY
塑料行业自动化应用

塑料直管在线/ 离线捆扎套袋机

适用范围

- 适用于塑料纤维套袋包装
 - 规格 $\phi 63\text{mm}$ 以下的PPR、PE、PVC直管，实现先捆扎后套袋的方式，满足最大线速度25米/分钟的在线包装要求
 - 规格 $\phi 20\text{-}\phi 63\text{mm}$ 直管选配在线单管套袋包装
 - 捆扎、套袋一体机设备占地长度可选6米/12米
- ## 产品特性
- 占地少，结构简单稳定、优越的用户操作体验；
 - 结合市场不同的包装要求，可实现管材包装前自动装管帽、捆扎后自动塑料膜缠头，包装纤维袋口双折边缝切等包装方式
 - 可按客户场地情况，提供牵引切割包装一体的设备机构，或集中包装方式，节省场地，提高生产稳定性



● 包装机构



● 捆扎机构



● 储料装置



● 打包效果



Plastic Pipe On/Off-line Bundling & Bagging Machine

Availability

- Available With **Plastic Fiber Bag** Packaging
- Available For Packaging Of PPR, PE, PVC Straight Pipes Diameter Below 63mm; On-line Bundling And Bagging While Running At Max Line Speed Of 25m/min
- Straight Pipe From 20 To 63mm Applicable With On-line Single-pipe Bagging
- Compact Size Optional With 6m Total Working Length Or 12m.

Features

- Compact size; simple and stable structure; excellent user operating experience
- By combination of different market needs, to achieve on-line auto installation of pipe caps, auto wrapping of bundled pipes with plastic fiber bags, auto sewing at double-folded ends.
- Customized packaging solutions with offer of hauling-cutting-packaging combination unit or centralized off-line packaging to save production space.



● Bagging Structure



● Bundling Structure



● Stocking Device



● Packaging Bag





塑料直管在线/ 离线捆扎套袋机



● 排管



● 捆扎机构



● 夹膜机构



● 切割机构



● 封口效果



● 使用现场

适用范围

- 适用于塑料薄膜套袋包装
- 规格 $\phi 63\text{mm}$ 以下的PVC、PPR、PE直管，实现先捆扎后套袋的方式，满足最大线速度16米/分钟的在线包装要求，规格 $\phi 75\text{-}\phi 160\text{mm}$ 直管选配在线单管套袋包装
针对单管，双管，四管的挤出设备，相应配套各款在线包装设备

产品特性

- 占地少，结构简单稳定、优越的用户操作体验；
- 结合市场不同的包装要求，可实现管材包装前自动装管帽、捆扎后自动塑料膜缠头，不同的包装袋可实现塑料膜热粘合，纤维袋口双折边缝切等包装方式
- 可按客户场地情况，提供牵引切割包装一体的设备机构，或集中包装方式，节省场地，提高生产稳定性
- 夹膜套袋可靠， 0.15MPa 气压内保证不脱膜
- 袋口热封采用“四粘合”，保证绝佳封口质量
- 2.5-4米管材包装范围内实现无极伺服可调



Plastic Pipe On/Off-line Bundling & Bagging Machine



● Pipe Displacement



● Bundling Structure



● Film Clamping Structure



● Cutting Structure



● Sealing Effect



● Production Site

Availability

- Available With **Plastic Bag** Packaging
- Available For Packaging Of Pvc ppr pe Straight Pipes Diameter Below 63mm.on-line Bundling And Bagging While Running At Max Line Speed Of 16m/min

Product Features

- Less occupies.Simple and stable structure.Excellent user operation experience
- Combination with the different packaging needs of the market,it can realize on line auto installation of pipe cap by robot before packaging stretch film wrapping bundle head after bundling.Different packaging bag can be realized plastic plastic bag hot bonding sealing,fiber bag can sewed by double-folding
- According to the customer's site situation,Liansu can offer a full set of equipment includes hauling,cutting and packaging or centralized packaging way,which will save area and improve production stability
- Reliable clamping film bagging,ensure not to loose film within the pressure of 0.15MPa
- Hot sealing of the bag mouth adopts a method of four bondings to make sure the quality of sealing
- Realize stepless servo adjustable in pipe packaging range between 2.5m and 4m



塑料直管在线 套袋包装机构

适用范围

- 适用于塑料薄膜套袋
- 规格范围75MM—160MM的PVC,PPR,PE直管，实现在线套袋包装，满足线速度6米/分的在线包装要求；
- 针对单管，双管，四管的管材挤出设备，相应配套各款在线包装设备
- 外形尺寸（长×宽×高）：8m×1.1m×0.9m

产品特性

- 占地少，结构稳定、优越的用户操作体验
- 结构简单，宽度仅为1.1米，节省用户场地
- 预留人工普检及包装位置和操作空间
- 高度灵活适应客户的料车高度
- 换规格时调整简单、快速、人性化
- 夹膜套袋可靠，0.15MPa气压内保证不脱膜
- 袋口热封采用“四粘合”，保证绝佳封口质量
- 2.5-4米管材包装范围内实现无极伺服可调





Plastic Pipe On-line Bagging Machine

Availability

- Available with **plastic Bag** packaging
- Available for packaging of PVC、PPR、PE straight pipes diameter from 75mm-160mm.On-line bagging while running at max line speed of 6m/min
- Customized packaging solutions with offers according to single, twin or four pipe extrusion equipment.

Features

- Compact size;simple and stable structure;excellent user operating experience
- Compact structure with working width within 1100mm
- Refined film clamping device ensuring the bag will be tightly stably clamped with 0.15Mpa air pressure.
- Applicable to pipe stocking devices which are of different central height.
- Simple,quick and humanized regulation while changing specification
- Reliable clamping film bagging,ensure not to loose film within the pressure of 0.15MPa
- Hot sealing of the bag mouth adopts a method of four bondings to make sure the quality of sealing
- Realize stepless servo adjustable in pipe packaging range between 2.5m and 4m



PVC电工线槽 在线捆扎套袋机



适用范围

- 适用于塑料薄膜套袋包装
- 规格99×60以下的PVC电工线槽，实现先捆扎后套袋的方式，满足最大线速度18米/分钟的在线包装要求
- 针对单工位，双工位的挤出设备，相应配套各款在线包装设备

产品特性

- 占地少，结构简单稳定、优越的用户操作体验；
- 可按客户场地情况，提供牵引切割包装一体的设备机构，或集中包装方式；
- 节省场地，提高生产稳定性；



PVC Trunking On-line Bundling & Bagging Machine



Availability

- Available with plastic film packaging
- Available for packaging of PVC electric trunking size below 99mm*60mm. On-line bagging and bundling while running at max line speed of 18m/min
- Customized packaging solutions with offers according to single, twin-trunking extrusion equipment.

Features

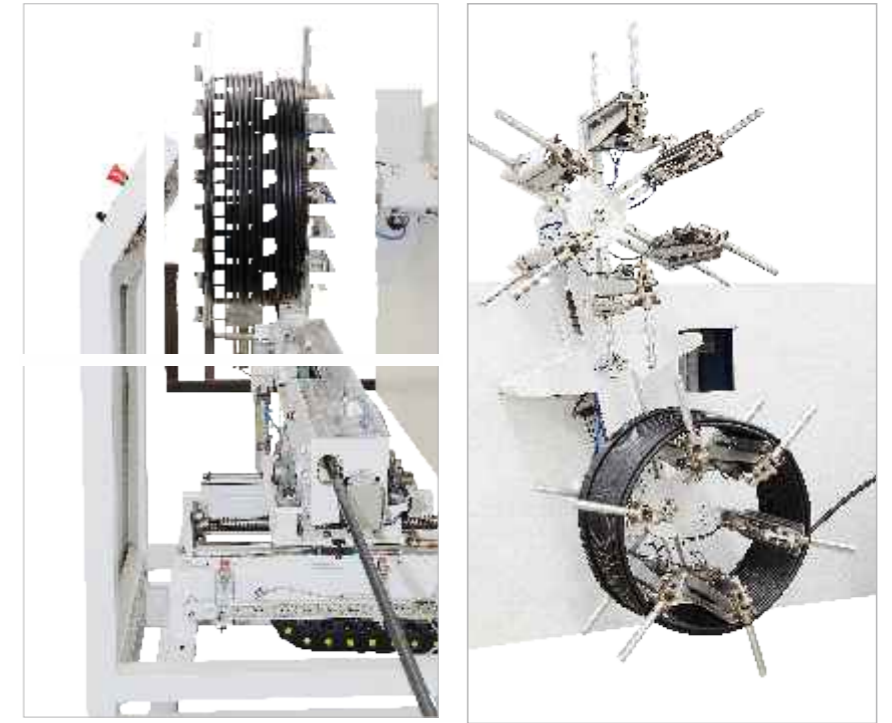
- Compact Size; simple And Stable Structure; excellent User Operating Experience
- Customized Packaging Solutions With Offer Of Hauling-cutting-packaging Combination Unit Or Centralized Off-line Packaging To Save Production Space.



在线高速盘管打包设备

特点介绍

针对用户需求，对应不同产品，不同生产速度，联塑机器推出5款
在线包装设备，满足市场需求，提高生产效率，减少劳动成本



适用范围

- 适用于32MM以下PE、PERT管材的收卷，满足最大生产线速度50米/分。

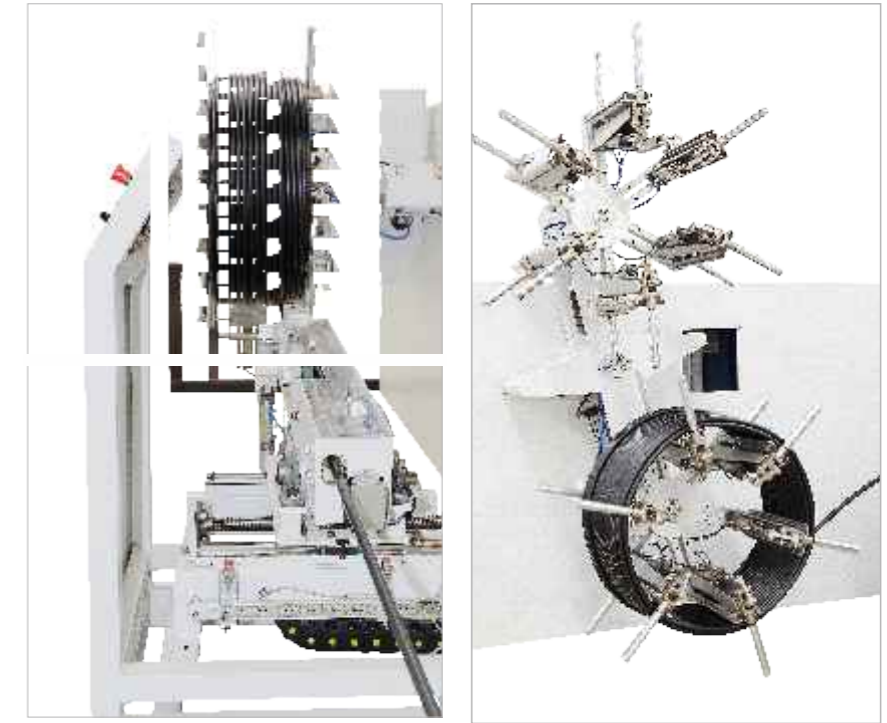
产品特性

- 高速收卷，自动换卷，自动打包，机械手卸管功能；
- 带全同的收卷、排线、送管、换卷系统，张力控制存管机构，定长切割并精准控制喷码发讯，确保高速生产下的管材有序，整齐，稳定的收卷；
- 可靠的打包带传送轨道设计，良好的热粘合效果，合理的包装带捆紧机构；

On-line High Speed Coiling&Packaging Device

Features

To Meet Different Market Demands, Increase Production Efficiency, Reduce Labor Cost, Liansu Has Developed Five Models Of Online Packaging Machines According To Different Product Property And Working Speeds.



Availability

- Available For The Winding Of Pe,pert Pipes Diameter Below 32mm, Running Stably At Max Line Speed Of 50m/min.

Features

- High speed winding, automatic exchange of coiling station, automatic strapping, robotic discharging;
- With fully servo control to coiling, pipe displacement, pipe conveying, and exchange of coiling station; tension control to pipe storage mechanism; fixed-length cutting and precise signaling to printer, to ensure good and stable coiling performance at high speed.
- Pipes with length from 2.5m to 4m could be continuously adjustable
- Reliable strap transmission design, excellent heat bonding effect and reasonable packaging bundling mechanism.

注塑车间自动化 生产设备配套

特点介绍

为客户提供定制设计，生产、安装、服务一整套的解决方案，配套现有注塑设备提供上下游自动化生产线，提高注塑车间的自动化配套，提高生产效率、减少劳动强度，节约人力成本；

针对注塑产品的结构，我们提供多种配置给客户选择，从机械手模内镶件，集中冲水口，在线组装，混线输送，在线检测，分拣装箱等一系列可选配套，满足用户体验、发展需求！



▼ 塑料管件金属镶件、集中剪水口、集中包装生产线



▲ PVC开关盒自动检测分拣包装生产线（案例现场）

组成

模内机械手镶件

适用于塑料或金属镶件，带镶件排列机构，可选配在线剔除不合格品功能，完全实现以机器替代人

注塑件集中冲水口生产线

节约成本、场地、减少人力成本；
适应不同产品，不同腔数的水口冲剪

产品组装线

按产品结构提供在线安装，如冲压、装盖、安装五金件等，按实际产品结构定制安装生产线；

混线输送

不同规格的同类产品可集中输送，输送带带分拣功能；

在线检验

每件产品可实现包装前的在线全检；
配红外视觉在线检测

在线分拣、装箱

在线自动分拣不同规格的产品，自动完成软包装、入箱、封箱、贴标步骤；

生产数据的管理系统

按客户需求提供整套自动化生产线及注塑设备的数据采集方案，更直观了解分析设备的实时运作情况，生产效率，设备利用率、能耗及产品的质量监控

Automation Equipment in Injection Molding Production

Features

Liansu offers customized solutions in production, installation and service of automation equipment in injection workshops. By providing upstream and downstream automatic equipment for existing injection molding machines, we could increase the production efficiency and save labor cost;

According to different molding product structure, we provide to customers with different solutions, including manipulator for injection mold inserts, centralized spur cutting, online assembling, mixed conveying, online inspection, sorting packing, etc.



▼ Plastic Pipe Fitting Metal Inserts, centralized Gate Cutting, centralized Packaging Production Line



▲ PVC Switch Box Automatic Detecting , Sorting, And Packaging Line

Solution

Manipulator Injection Mold Inserts

Applicable For Plastic And Metal Inserts, with Insert Arrangement Mechanism, optional To Equipped With Online Unqualified Product Eliminating Function, which Will Totally Save Labor Costs.

Injection Molding Centralized Spur Cutting Line

Space And Labor Costs Saving
Applicable For Different Products, different Cavities' Degating Purpose

Assembling Line

According To Different Product Structure, we Provide Online Installation Of Punching, capping, hardware Installation, And Etc. To Customize Assembling Line According To Product Structure.

Mixed Conveying Line

Centralized Conveying With Sorting Function For Same Products With Different Sizes

Online Inspection

Online Full Inspection For Every Product Before Packaging;
Equipped With Infrared Visual Online Inspection

Online Sorting, packing

Online Automatic Sorting For Different Specification Products; Automatic Bagging Boxing, Sealing, And Labeling, etc.

Production Data Management System

According To Different Customers' Requirement, Liansu Has Provided A Whole Set Of Automation Production Data Collection Proposal, which Will Help Customers To Vividly Gather And Analyze The Real-time Production Situation Including Production Efficiency, Machines Usage Rate, Power Consumption And Product Quality.