

龙门式码垛机 GANTRY PALLETIZER



概述

● 码垛机构造

- (1) 利用各种传感器及位置控制，以一定形式堆积产品。
- (2) 堆积形式：根据用户指定。

● 运转

- (1) 利用供给输送带将产品整理排列到滚轮输送带上。
- (2) 利用传感器检查定量的产品，然后经由推杆移到主滚轮输送带上。
- (3) 在主滚轮输送带上，产品以每回每层要求排列的形式作业完毕后，处于待机中的抓臂下降，利用传感器的检测，到达指定抓箱位置停止；利用导轨棒及托盘完成产品的堆码作业。
- (4) 储存在踩板堆积仓里的踩板，利用踩板钩子及踩板升降输送带，以1个踩板的形式从踩板堆积仓里排出，到达指定位置待机；移送以完成堆箱作业踩板的同时自动补充踩板。
- (5) 产品堆码完毕后，机械臂以180°的角度进行移动，到达下降传感器的位置开始下降进行产品堆积作业。卸掉产品后，再以相反的顺序返回指定托举产品的位置。

技术参数

- 型号：KLMMD30D
- 作业方式：水平托盘型
- 生产能力：40箱/分
- 托盘尺寸：根据客户要求而定
- 纸箱尺寸：根据客户要求而定
- 排列方式：根据客户要求而定
- 托盘堆积层：10个托盘为基准
- 动力消耗量
电源：19Kw
空气：200L/min
- 堆积限额
托盘输送机：2盘
- 设备尺寸(约)
长11500 × 宽6000 × 高4300
重量：5500kg



Summary

● Palletizer construction

- (1) Various sensor and position controls are adopted to stack products in certain forms.
- (2) Stack form: designated by users

● Running

- (1) The feeding conveyor belt is used to arrange the products onto the roller conveyor belt.
- (2) The sensor is used to check the products of fixed quantity, and then convey them to the main roller conveyor belt through the push rod.
- (3) On the main roller conveyor belt, after the products finish the operation according to the required arrangement form at each layer each time, the gripping arm under the standby status will fall and stop after reaching the designated case gripping position through detection by the sensor. The stacking operation is completed by using the guide rail rod and pallet.
- (4) The pallets stored in the pallet magazine will be discharged from the pallet magazine in the form of one pallet by using the pallet hook and pallet lifting conveyor belt and enter the standby status after reaching the designated position. The pallets are conveyed to complete the stacking operation and carry out automatic supply of pallets.
- (5) After product stacking is completed, the mechanical arm will move at an angle of 180°. It will start to fall and carry out product stacking operation when reaching the position of the falling sensor. After the products are discharged, it will return in the reverse sequence to the designated position for supporting the products.

Technical parameters

- Model: KLMMD30D
- Operation mode: horizontal pallet type
- Production capacity: 40 cases/min
- Pallet dimensions: depending on customer requirements
- Carton dimensions: depending on customer requirements
- Arrangement mode: depending on customer requirements
- Pallet magazine: 10 pallets as the standard
- Power consumption
Power: 19Kw
Air: 200L/min
- Stacking limit
Pallet conveyor: 2 pallets
- Equipment dimensions (about)
L11500 x W6000 x H4300
Weight: 5500kg

机器人码垛系统 ROBOT PALLETIZING SYSTEM



概述

该机器人自动码垛系统包括：箱体输送系统、箱体整理系统、机器人夹具、机器人系统、托盘输送系统、托盘缓冲系统等。产品纸箱经自动封箱机或者膜包机后由箱体输送系统输送至箱体整理系统，经过整理排列后由机器人通过夹具将产品抓取，抓取后的产品按产品码放需求逐层码垛，码垛完成后由托盘输送系统输送到叉车接货点等待接货或者与自动立体库对接。根据系统生产速度要求可单独配置空托盘自动输送站，也可以采用机器人供应垛板。

Summary

The automatic robot palletizing system mainly includes: case conveying system, case arranging system, robot clamp, robot system, pallet conveying system, pallet buffering system, etc. After passing the automatic case sealing machine or film wrapping machine, the cartons are conveyed by the case conveying system to the case arranging system. After arrangement, the robot grips the products through the clamp. The gripped products are palletized layer by layer according to the palletizing requirements. After the palletizing is completed, the products will be conveyed by the pallet conveying system to the forklift truck pick-up location for pick-up or connection with the automatic vertical warehouse. According to system requirements for production speed, it can be equipped with empty pallet automatic conveying station, or the pallets can be supplied by the robot.



概述

该机器人自动装箱系统主要包括：自动分道器、多列瓶输送机、多列瓶整理系统、箱体输送系统、纸箱定位系统、机器人夹具、机器人系统等。产品经单列输送机输送到自动分道器入口处，根据装箱工艺的不同要求，自动分道器将单列输送的产品自动分成多列输送，多列输送机将产品输送至多列产品整理工位进行排列整理，整理完成后产品由机器人驱动夹具整体抓取，根据生产速度及装箱工艺的不同，机器人夹具可同时抓取2~6箱的产品。机器人将抓取的产品同时放入到已经定位完成的纸箱内，放入完成后机器人复位回到待机位置，装完产品的纸箱自动排出，新的空纸箱继续输送。

Summary

The automatic robot case packing system mainly includes: automatic separator, multi-range bottle conveyor, multi-range bottle arranging system, case conveying system, carton positioning system, robot clamp, robot system, etc. The products are conveyed by the single-range conveyor to the inlet of the automatic separator. According to different case packing requirements, the automatic separator automatically divides the products conveyed in single range into multi-range conveying. The multi-range conveyor conveys the products to the arrangement work station of multi-range products for arrangement. After arrangement, the products are gripped by the robot driven clamp. According to different production speeds and case packing processes, the robot clamp can grip 2~6 cases of products simultaneously. The robot simultaneously puts the gripped products into the positioned cartons. After the placing is finished, the robot resets to the standby position. The cartons loaded with products are automatically discharged and new empty cartons continue to be conveyed.