

# 全自动卸垛机 AUTOMATIC DEPALLETIZER



### 配件品牌

- 主体架构：碳钢结构，与瓶体接触的升降室侧板为SUS304。
- 变频器：丹麦丹佛斯(Danfoss)、台湾台达(Delta)
- PLC：德国西门子(Siemens)
- 触摸屏：台湾威纶(weinvew)
- 电机减速机：SEW
- 主要低压电器及部件：法国施耐德(Schneider Electric)
- 电器端子：德国菲尼克斯(Phoenix Contact)
- 传感器：施克(SICK)、韩国奥托尼克斯(autonics)
- 气动元件：台湾亚德客(AirTac)
- 网链品牌：DMM

### Fitting brand

- Main structure: carbon steel structure, side board of lifting chamber contacting the bottles is made of SUS304
- Frequency converter: Danfoss, Delta
- PLC: Siemens
- Touch screen: Weinview
- Motor reducer: SEW
- Main low-voltage apparatuses and components: Schneider Electric
- Electrical terminals: Phoenix Contact
- Sensors: SICK, Autonics
- Pneumatic components: AirTac
- Mesh chain brand: DMM

### 主要结构特点

- 主体采用优质碳钢管材焊接，外表面整体喷塑烤漆，美观大方。内衬板为3mm厚SUS304材质。
- 输垛部分主体采用160X80优质碳钢管材焊接而成，结构稳固，标配预留3垛空间，承载能力可达3.2T；输垛动力电机加以变频控制；传动部分为高强度双排滚子链12A(GB/T1243-1997)，下附导向条；托盘两侧护栏选用优质钢材，具有矫正整垛方向之作用；主体进垛工位设计导向结构，保证罐垛进入顺畅。
- 整垛提升工位有双向夹紧板，可将整垛罐横向往复进行恢复矫正，防止提升过程掉罐、挤罐；提升动力电机加以变频控制，在意外断电情况下自动锁止，保证人员安全及罐垛不受损坏；提升部分为双导轨悬臂式结构，具有结构稳定，载重能力好、空间利用率高等特点；动力传动采用高强度滚子链16A(GB/T1243-1997)，提升平稳；顶部安装有光电传感器以检测定位，提升高度控制精准。
- 卸罐动作由环抱式结构完成，该结构动作时将整层罐体外尺寸限制，再由变频控制的自制动电机带动同步带传送，以确保罐体在线性自由度移动时不会出现挤压变形或倾倒卡顿。
- 输瓶网带侧板采用3mm碳钢板，表面整体喷塑烤漆，网带采用进口POM材质，运行平稳，耐磨性高，磨损率为其他同类产品的60%。过渡板SUS304采用激光切割技术，边缘平滑。
- 本机设计有纸板自动吸取机构，其10个特殊定制风琴式吸盘，吸取隔板牢固可靠，适应性强，可适应一定弯曲程度的纸板。并且吸取纸板机构可与环抱卸罐机构配合动作，卸罐机构回程时，吸取机构完成动作同时将纸板抓取至纸板放置平台，此环节可大大节省卸罐时间，提高整机工作效率。
- 本机设计有空栈自动收集装置，升降动力电机加以变频控制，空栈托举梁由气缸带动，可自动开合，码垛整齐、方正。最大承载栈板数量可达10块。
- 本机设计有纸板从设备上端运送到地面纸板输送及存储装置，实现纸板自动收集归正，整体运送。

### Main structural features

- The main body is made of high quality carbon steel pipe through welding. Its outer surfaces are subject to overall plastic spraying and baking finish, making it beautiful. The lined board is made of 3mm thick SUS304.
- The main body of the stack conveying part is made of 160X80 high quality carbon steel pipe through welding. With solid structure, it reserves the space for 3 stacks in standard configuration and the bearing capacity can reach 3.2T. The stack conveying power motor adopts variable frequency control. The driving part adopts high strength double-row roller chain 12A(GB/T1243-1997), provided with guide strips at the bottom. The fences at the two sides of the pallet are made of high quality steel, playing the role of correcting the direction of stacks. The stack entering work station is designed with a guiding structure to ensure that the can stacks enter smoothly.
- The lifting work station of stacks is provided with the two-direction clamping board to correct horizontal deformation of the can stacks and avoid can dropping and extrusion during the lifting. The lifting power motor adopts variable frequency control. In case of accidental power failure, it will stop automatically to ensure personnel safety and prevent can stacks from being damaged. The lifting part adopts a double guide rail cantilever structure, featured by stable structure, good carrying capacity, high space utilization rate, etc. The power driving adopts high strength roller chain 16A(GB/T1243-1997), featured by stable lifting. Its top is mounted with the photoelectric sensor to detect positioning and realize precise control of lifting height.
- The can unloading action is completed through the encircling structure. During the action, the structure limits the size outside the whole layer of cans, and then the self-braking motor adopting variable frequency control drives the synchronous belt for conveying, so as to ensure that there is no deformation due to extrusion or tilting and blocking when the can makes linear free movement.
- The side board of the bottle conveying mesh belt is 3mm carbon steel board. The surfaces are subject to plastic spraying and baking finish. The mesh belt is made of imported POM. Featured by stable running and high anti-wear performance, its wear rate is only 60% of that of other similar products. The SUS304 transition board adopts laser cutting technology to realize smooth edges.
- The machine is designed with an automatic cardboard sucking mechanism. Its 10 specially customized organ type sucking discs can securely suck the partition board. With good adaptability, they are suitable for cardboards of certain bending degrees. The cardboard sucking mechanism can work together with the encircling can unloading mechanism. When the can unloading mechanism returns, the sucking mechanism completes the action and grasps the cardboard to the cardboard placing platform. This link can greatly save can loading time and improve overall work efficiency.
- The machine is designed with an empty pallet automatic collector. The lifting power motor adopts variable frequency control. The empty pallet supporting beam is driven by the cylinder to open and close automatically. The palletizing is neat and orderly. It can bear 10 pallets at most.
- With the lifting device for paperboard from top to bottom and storage device, which can realize the automatic collection and stack of the paperboard.

### 技术参数 Technical parameters

型号Model	KYCD750	KYCD1200	KBLCD150
生产能力 Production capacity	650罐/分 Can/min	800罐/分 Can/min	12000瓶/分 Bottle/MIN
适用产品 Applicable products	易拉罐、PE、PP Pop can, PE、PP		玻璃瓶(圆瓶) Glass bottles
总功率 Total power	6kw	15kw	5kw
总重量 Total weight	6000kg	11100kg	5000kg
动力电源 Power supply	3X380VX50Hz	3X380VX50Hz	3X380VX50Hz
控制电源 Control power supply	DC24V/AC24V	DC24V/AC24V	DC24V/AC24V
压缩空气源 Compressed air supply	0.8Mpa	0.8Mpa	0.8Mpa
气源消耗量 Air supply consumption	0.1m³/min	0.2m³/min	0.2m³/min
适用整垛尺寸(标配) Applicable stack size (standard)	1400mmX1100mmX2500mm (LXWXH)	1400mmX1100mmX2300mm (LXWXH)	1200mmX1000mmX1300mm (LXWXH)
罐垛容量 Can stack volume	3垛Stack	3垛Stack	
空拍容量 Empty take capacity	10层Layer	10层Layer	
输瓶网链 Can conveying mesh chain	4000mm	6000mm	3000mm
外形尺寸(标配) Outline dimensions(Standard)	12000mmX2900mmX4100mm (LXWXH)	15400mmX4750mmX3900mm (LXWXH)	6800mmX2500mmX1500mm (LXWXH)