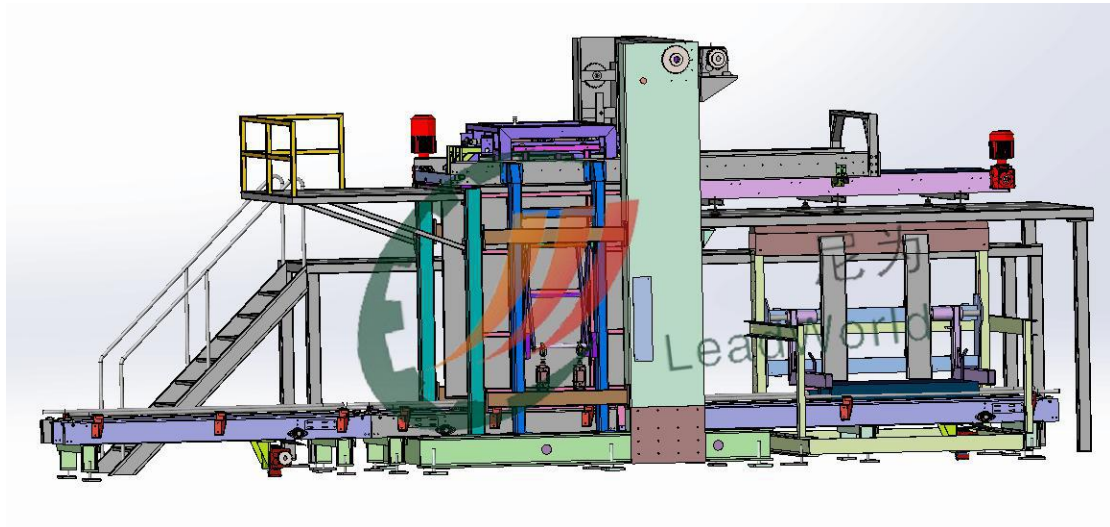


Empty glass bottle de-palletizer

空瓶卸垛机



1.descriptions:

De-palletizer mainly is used to de-palletize various glass jar. It will de-palletizer the empty bottle from stack to conveyor again and again. Save much manpower, improve working efficiency.

卸垛机/拆垛机主要适用于整垛的各种玻璃瓶等空罐的自动卸垛拆垛，它将堆叠于栈板上的空罐，由下而上一层层的提升并分层推至输送道上，可节省大量人力，提高生产效率。

2.Main elements: 主要组成部分:

- 1)full stack conveyor 1)罐垛输送部分
- 2)full stack elevator part 2)罐垛升降主机部分
- 3)clamping and pushing de-palletizer part 3)抱夹式推罐卸垛部分
- 4)bottle buffer conveyor 4)缓冲网带输送部分
- 5)interlayer paperboard storage platform 5)隔层纸堆放平台
- 6)empty stack conveyor 6)空栈板输送部分
- 7)automatic empty stack collecting device(choosable) 7)自动收空栈板部分（可选）
- 8)stairs and working platform 8)踏梯及工作平台
- 9)electrical controlling part 9)电气控制部分

3. Machine parameters:

技术参数

Working speed	1-4 layers/min(200-800 bottles/min)
生产速度	1-4 层/分（200-800 瓶/分钟）

Suitable range 适用产品	Glass bottle&jar 玻璃瓶
Total power 总功率	7-9KW 7-9KW
Power 动力电源	380V/50HZ 380V/50HZ
Controlling power source 控制电源	DC24 DC24
Compressed air source 压缩空气源	0.5-0.8MPA 0.5-0.8MPA
Air consumption 耗气量	0.1-0.2m3/min 0.5-0.8MPA
Suitable stack size 耗气量	L1200*W1000*H1600(Can customize) 长 1200*宽 1000*高 1600(可定制)
Fulled stack storage capacity 罐垛容量	1-3 pieces 1-3 垛

4. Machine feature:

机器特点:

1)mainly is made of good quality carbon steel tube by welding, appearance is processed with stoving varnish, beautifui designed.

1)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。

2)The machine maid part is made of high-quality carbon steel pipe, and the structure is stable. Include one fulled multi-layers stack storing area. Conveyor power system is match with tranducer; driving system adopt high-strength double row roller chain, include guide bar; the guard bar of double sides for fulled stack is adopt high-quality steel pipe, can correct the stack direction; the main stacking station is designed with oriented structure to ensure the cans to come into smoothly.

2)输垛部分主体采用优质碳钢管材焊接而成，结构稳固，标配预留 1 垛空间，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，下附导向条；托盘两侧护栏选用优质钢管，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。

3)the whole full multi-layers stack elevator staition is designed with double direction clamp plate, can insure the whole full multi-layers stack keep into correct shape, in case the jar or cans will drop or break when elevat; elevator motor match with tranducer, if electric is stopped suddenly, elevator won't drop down, will keep at same area, in sure worker's safe; elevator is Double guide cantilever structure, stable, high quality loading ability, high area Utilization; power driving system adopt high-strength double row roller chain, stable elevating; machine top installs sensor(magnet switch), can check the fulled stack position, contorlling elevator accuracy.

3)整垛提升工位有双向夹紧板，可将整垛罐横向变形进行恢复矫正，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，提升平稳；顶部安装有光电传感器（磁性开关）（以检测定位，提升高度控制精准。

4)De-palletizing process is finished by Surrounded clasp structure. It will contorl the whole layer of fulled stack when move, then tranducer controlling motor will drive synchronous belt to work, insure the cans or jar won't change shape or fall down when move directly.

4)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形变或倾倒卡顿。

5)Bottle conveyor adopt stainless steel plate, belt material is POM, stable moving, high abrasive resistance.

5)输瓶网带侧板采用不锈钢，网带采用 POM 材质，运行平稳，耐磨性高；

6)This machine also designed with empty stack automatic collecting machine, lift motor match with tranducer, empty Lift beam is drived by cylinder, can open and close automaticlly. Empty stack biggest loading quantity is 10 pieces.

6)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。

7)This machine can add paperboard automatic collecting device, matching with 10 pieces of organ type suction cups, absorbsolidly. Also can be used to certain range of cruved paperboard. The absorbing device can match with Surrounded clasp de-palletizer structure, we de-palletizer come back, absorb device also will finish the whole process, and absorb the paperboard to paperboard storage platform. Save empty jar&cans de-palletizer time, improve working efficiency.

7)本机可以增加纸板自动吸取机构，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。

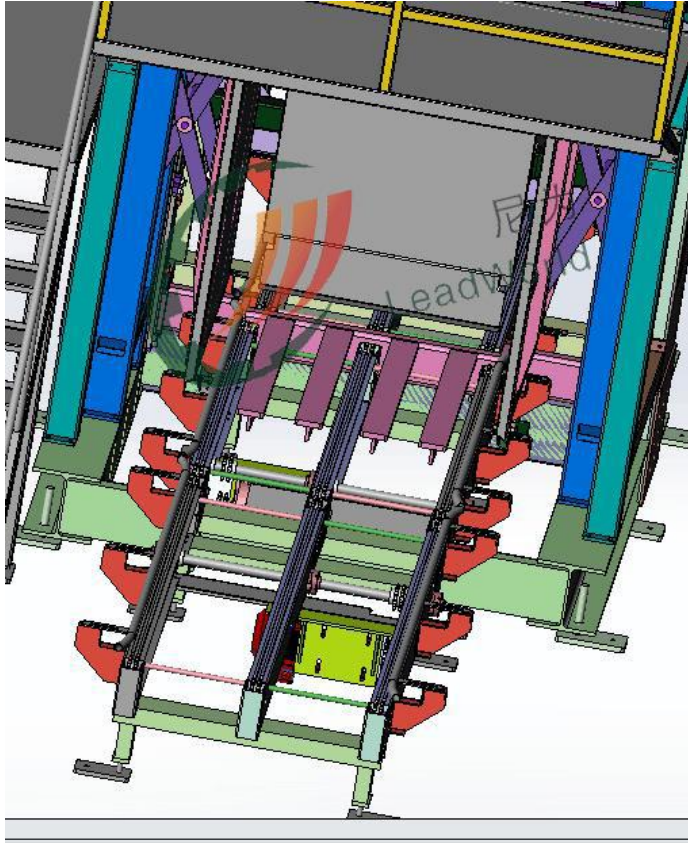
5. Machine accessories:

机器配件：

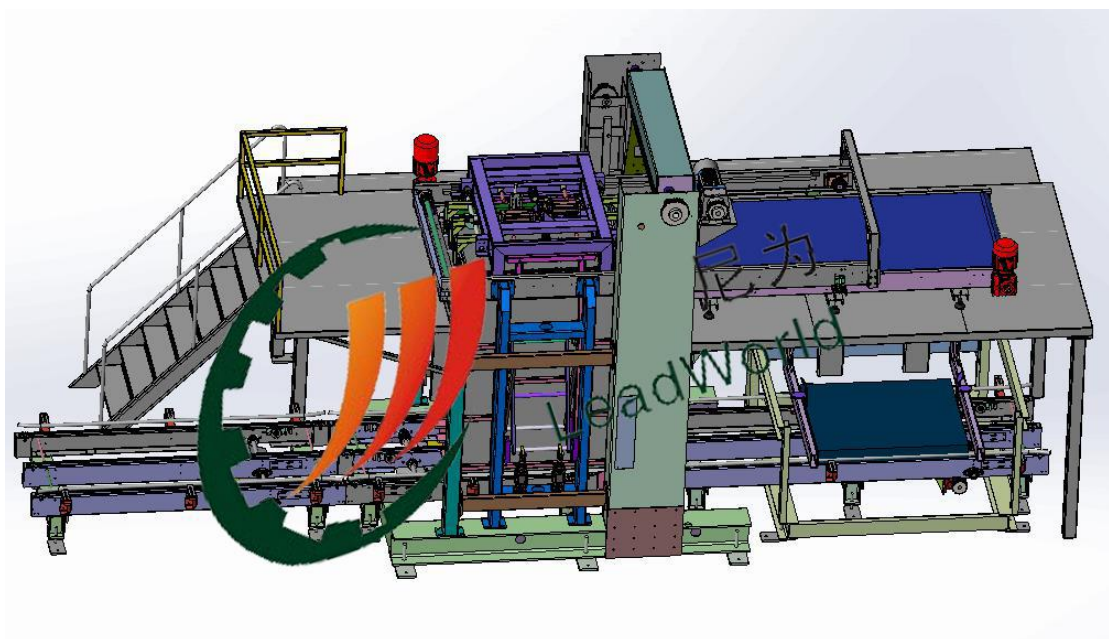
Main structure 主体架构	Carbon structure, jar&cans contacting vertical plate is 304stainless steel 碳钢结构，与瓶体接触的升降室侧板为 SUS304.
Tranducer 变频器	Danfoss 丹麦丹佛斯（Danfoss）
PLC PLC	Siemens SMART 200 德国西门子（Siemens） SMART 200
Toouch screen 触摸屏	Siemens SMART 700IE 德国西门子（Siemens） SMART 700IE
Motor 电机	Jinlong 金龙
Electrical elements 电器元件	Schneider 法国施耐德(Schneider Electric)
Terminal 接线端子	Weidmuller 德国魏德米勒（Weidmuller）
Sensor 传感器	SICK/banner/Leuze 施克（SICK）、邦纳（banner）劳易测
pneumatic element 气动元件	AirTac 台湾亚德客(AirTac)

Machine other pictures:

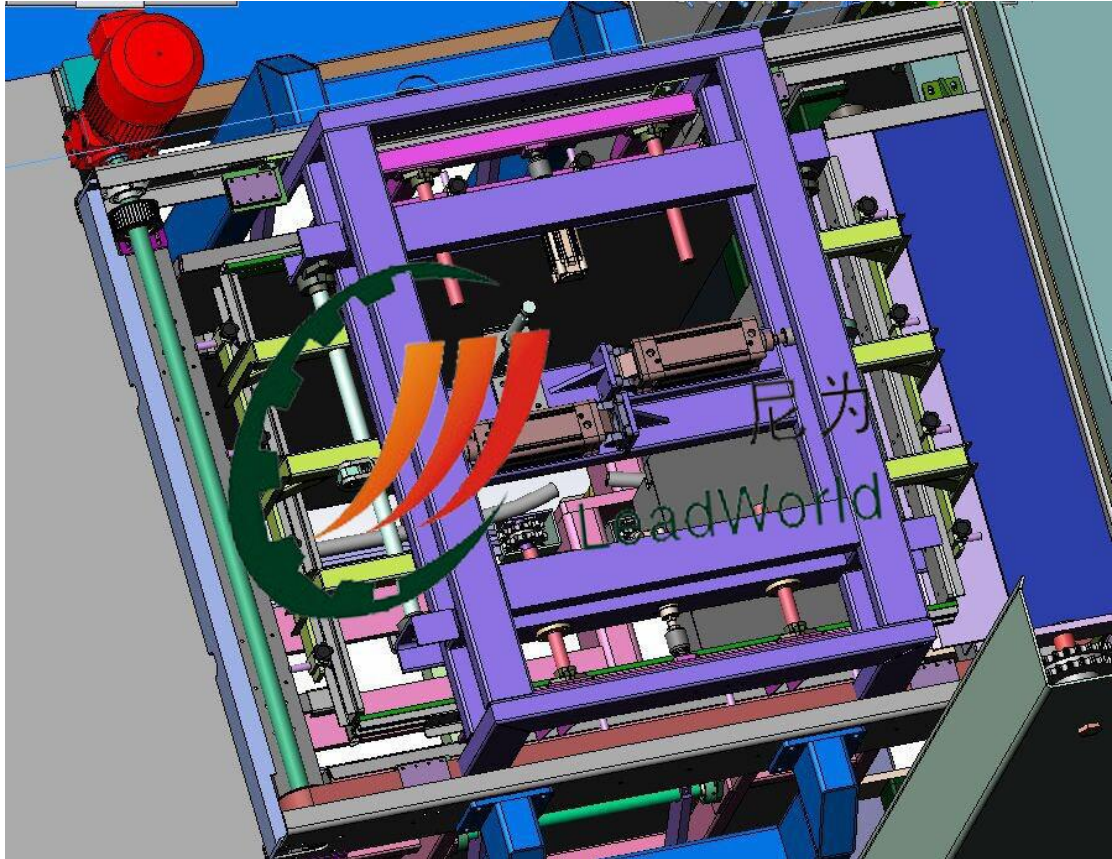
full stack conveyor



2)full stack elevator part



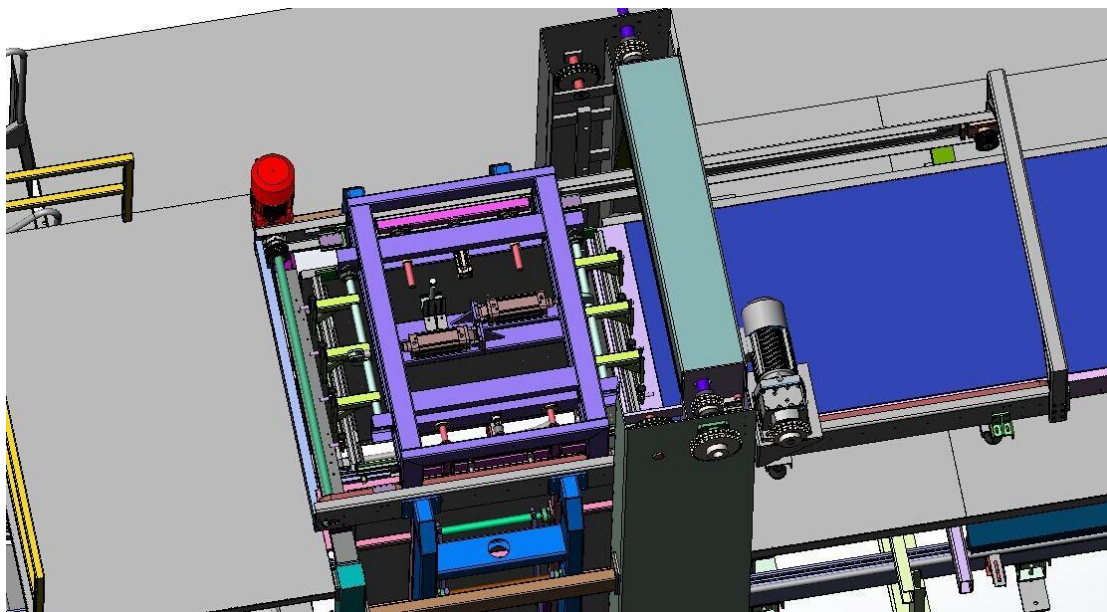
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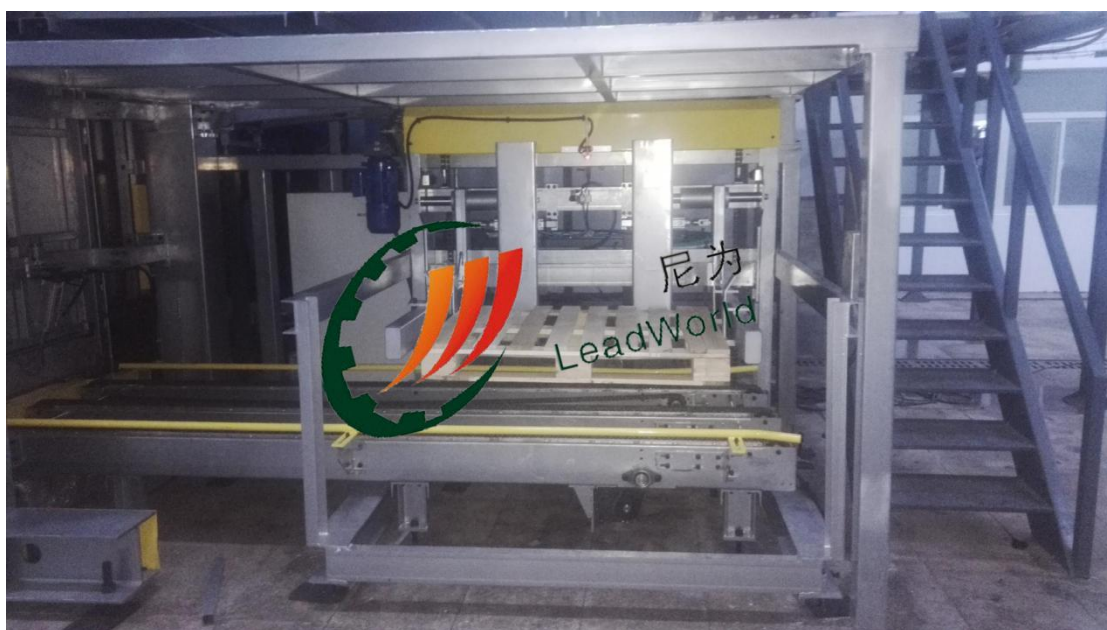
bottle buffer conveyor 4)缓冲网带输送部分



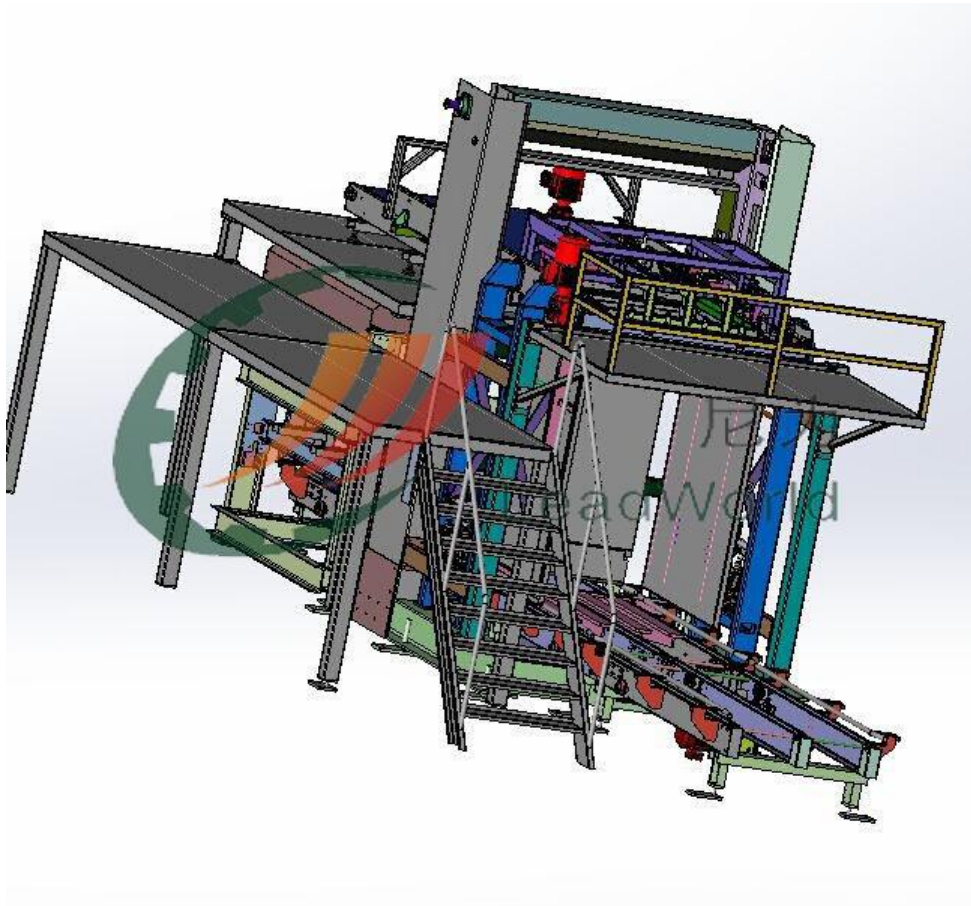
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玻璃瓶垛型：glass bottle stack model

