

力马化机

LIMA CHEMICAL MACHINERY



MANUFACTURING IN CHINA
LIMA TAKESTHELEAD
中国制造，力马当先

LIMA[®]

无锡力马化工机械有限公司
WUXI LIMA CHEMICAL MACHINERY CO.,LTD.

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ABOUT LIMA 关于力马



办公科技大楼
Office/design building



企业培训中心(阶梯教室)
Enterprise Training Center (Ladder Classroom)



包装码垛总装调试车间
Final assembly & debugging workshop of
bagging & palletizing machine



技术设计中心
Design Center



重型设备生产车间外景(起重能力250T)
Pressure Vessel Production Workshop (With 250T lifting capacity)

无锡力马化工机械有限公司(原国营无锡化工机械厂),始建于1966年。公司为国家高新技术企业,国家专精特新小巨人企业,具有I、II、III类压力容器、高压容器设计和制造证书及美国ASME U 钢印证书。

公司是国家“863计划”智能机器人主题产业化基地,是中国旋转薄膜蒸发器和短程(分子)蒸馏器专业的生产供应商,是国内首批获得I、II、III类压力容器设计证书和制造证书的企业之一。公司研发生产的国内首台套自动包装机,获国务院颁发的“国家科学技术进步一等奖”。

公司产品以全自动称量包装码垛生产线、高效旋转薄膜蒸发器、短程(分子)蒸馏器、中高压反应釜、卧式釜、换热器及不锈钢压力容器产品为主体,形成了智能化多功能系列称量包装码垛装置、薄膜短程蒸发器专用设备与I、II、III类压力容器三大类石化机械和自动化设备产品集合群。

公司产品技术水平在国内同类产品中处于领军地位,凭借优秀的技术和产品质量,赢得了国内市场的广泛认可,市场占有率行业领先。LIMA品牌产品同时积极参与国际市场竞争,产品出口美国、日本、俄罗斯、澳大利亚、西班牙、沙特阿拉伯、以色列、土耳其、哈萨克斯坦、马来西亚、印度、越南及阿联酋等十几个国家。

六十多年的发展历程,使我们在涉足的领域中,积累了大量的实践经验,成为石化机械、薄膜短程专用设备以及自动包装码垛设备行业中具有特色的知名企业。今后,力马将继续致力于智能化包装码垛、蒸发提纯新技术新工艺的研发,以更好的发展和提高企业价值为目标,再创新的业绩,做出新的社会贡献,展现力马更大的担当。

Wuxi Lima Chemical Machinery Co., LTD. was founded in 1966. LIMA holds the design and manufacture license for I, II, III and high pressure vessels, and ASME U certificate.

LIMAS' products are classified into three series, i.e. Class I, II, III pressure vessels, automatic bagging & palletizing line, and thin film evaporator; mainly include weighing machine, bagging & palletizing machine, high-efficient rotary film evaporator, molecular (Short Path) distillation equipment, medium high pressure reactor, horizontal reactor, and heat exchanger.

With the 60 years development, we have accumulated great experience in related fields and have been a distinctive and famous enterprise in the petrochemical machinery industry. By

focusing on customer and promoting customers' success, and with excellent technology and product quality, Our products have been exported to USA, Japan, Russia, Australia, Spain, Saudi Arabia, Israel, Turkey, Kazakhstan, Malaysia, India, Vietnam - UAE and other countries.

In the future, Lima will continue to devote itself to the research and development of intelligent packaging, palletizing, evaporation and purification new technologies and processes. With the goal of better development and enhancing corporate value, we aim to achieve innovative results, make new social contributions, and demonstrate our greater responsibility.

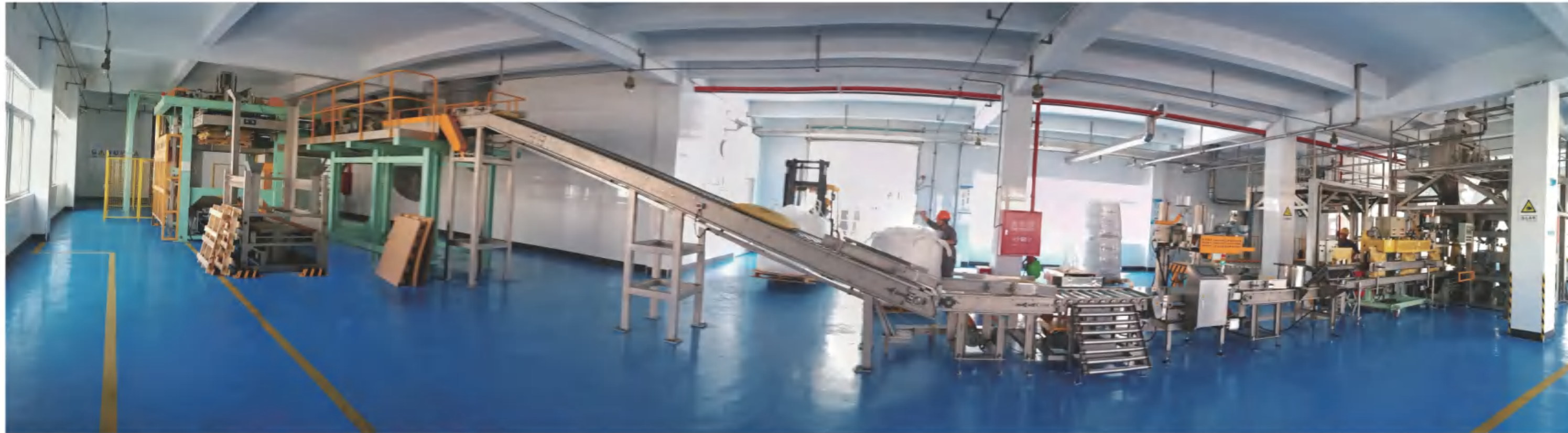


获包装机科技最高荣誉
国家科技进步一等奖

Science and technology highest honor of packaging machine in China.

全自动包装码垛生产线

Automatic bagging & palletizing production line



全自动包装码垛生产线由自动称量电子秤、全自动包装机、自动封口机、全自动码垛机、金属检测机、重量检测机、喷码机及套膜机等组成，可实现对散状物料的自动称量、分袋包装、自动码垛作业。整线包装速度可达1600袋/小时(25公斤/袋, PP)。

Auto packaging and palletizing production line consists of weighing electronic scale, auto packaging machine, auto sealing machine, auto palletizing machine, metal detection machine, weight detection machine, coding machine, and film covering machine, etc. It can achieve auto weighing, bagging, and palletizing of bulk materials. The packaging speed of the entire line can reach 1600 bags/hour (25 kg/bag, PP).



- ① 全自动包装码垛生产线用户现场
Auto bagging & palletizing production line at user's site
- ② 自动称量电子秤
Weighing electronic scale
- ③ 全自动包装机
Auto packaging machine

- ④ 自动封口倒袋装置
Auto sewing machine & Bag pushing machine
- ⑤ 全自动码垛机
Auto palletizing machine
- ⑥ 堆码整齐的袋垛
Neatly stacked stack of bags



国内首台全自动包装机生产企业

The first automatic packaging machine manufacturing enterprise in China.



1. 全自动包装机(纯碱)
Auto packaging machine (soda ash)
2. 全自动码垛机(塑料颗粒PP)
Auto palletizing machine (plastic particle PP)
3. 全自动热合制袋包装机
Form-Fill-Seal packaging machine
4. 全自动码垛机&拉伸套膜机
Auto palletizing machine & Film covering machine
5. 全自动码垛机(化肥)
Auto palletizing machine (fertilizer)
6. 全自动码垛机&套膜机
Auto palletizing machine & Film covering machine
7. 无托盘码垛套膜成套设备机
Auto palletizing&film covering without pallets machine
8. 移动式大袋包装机
Mobile large bag packaging machine
9. 多图谱码垛垛形
Multi graph palletizing shape



最大上袋速度达到1600袋/小时

Max bagging speed up to 1600 bags/hour

AUTOMATIC BAGGING MACHINE 全自动包装机



产品功能

全自动包装机是一种用于枕式包装袋自动取袋、开口、套袋、灌装及封口的包装设备。可实现取袋、开袋口、机械手套袋、袋夹夹紧、物料灌装及袋口整形封口等系列自动化作业。

产品特点

- 采用仿生机械手替代人工套袋作业，速度快，安全性高；
- 特别适用于化肥、饲料等行业质地偏软的塑料双层包装袋，有效降低包装袋成本；
- 独特的袋夹双重判别技术，有效避免洒料。

技术参数

- 自动上袋包装能力：最大1600袋/小时(25千克/袋，PP)；
- 包装重量：20~50千克/袋；
- 适用物料：PP颗粒，PVC粉料、饲料、纯碱、化肥等。

PRODUCT FUNCTION

Automatic bagging machine is a kind of packaging equipment suitable for pillow type bag, which is used for taking bag, slipping the bag on the bag clamping top by robot arm, material filling and sealing operation.

PRODUCT FEATURES

- Using the bionic robot hand instead of manual bagging, fast speed, high safety.
- It is especially suitable for auto bagging of double-layer bag in fertilizer industry and feed industry. Effectively reduce the cost of packaging bags.
- The reliable and swift bag placement ensures that our spillage rate is much lower than that of other competitors.

SPECIFICATION

- Auto bagging capacity: Max1600 bags/h (25kg/bag, PP)
- Packet weight: 20~50 kg/bag
- Materials to be handled: PP, PVC, Feed, Pure alkali, Fertilizer etc.



化肥全自动包装机(适用于双层塑料薄膜袋)
Fertilizer auto packaging machine
(suitable for double-layer plastic film bags)



塑料粒子全自动包装机
PP auto packaging machine



全自动包装机总装
Auto packaging machine assembly



最快热合制袋包装速度2000袋/小时

The max speed of FFS packaging 2000 bags/h

FORM-FILL-SEAL PACKAGING MACHINE FFS热合制袋包装机



产品功能

FFS热合制袋包装机为一种制袋(Form)-填充(Fill)-封口(Seal)一体全自动包装机,是将筒形重膜卷等距分割,通过底封热合方式制成单个开口袋,并实现物料称量装袋、袋口热封、满袋输出等功能的自动包装设备。

产品特点

- 采用集成化设计技术,集制袋、称重、包装于一体,速度快,安全性高;
- 包装过程无粉尘泄漏,清洁环保。

技术参数

- 自动热合制袋包装能力:
最大2000袋/小时(25千克/袋,PP);
- 包装重量:20~50千克/袋;
- 适用物料:PP颗粒、PVC粉料、饲料、纯碱、化肥等。

PRODUCT FUNCTION

FFS heat sealed bag making and packaging machine is an integrated fully automatic packaging machine that forms, fills, and seals bags. It divides the cylindrical heavy film roll into equidistant sections, creates a single open pocket through bottom sealing heat sealing, and realizes functions such as material weighing and bagging, bag opening heat sealing, and full bag output.

PRODUCT FEATURES

- Adopting integrated design technology, integrating bag making, weighing, and packaging into one, with fast speed and high safety;
- The packaging process has no dust leakage and is clean and environmentally friendly.

SPECIFICATION

- Auto bagging capacity: Max2000 bags/h (25kg/bag, PP).
- Packet weight: 20~50 kg/bag.
- Materials to be handled: PP, PVC, Feed, Pure alkali, Fertilizer etc.



最高称量速度2000袋/小时

Max weighing speed up to 2000 bags/hour

AUTOMATIC WEIGHING MACHINE 自动称量电子秤



产品功能

自动定量电子秤是对散料进行自动定量称量,为包装机提供定量物料的电子称重设备。根据散料特性不同可有多种给料方式进行选型。

产品特点

- 自动化程度高,称量速度快,称量精度符合国家标准;
- 多重物料供给方式,可满足不同特性物料的称量要求;
- 适用物料范围广,可完成颗粒料、粉料、块状料、条状料、片状料等物料的称量要求;
- 操作简便,易维护,使用成本低。

技术参数

- 称量速度:Max 2000袋/小时(20~50千克/袋)
10~50袋/小时(500~2000千克/袋)

PRODUCT FUNCTION

Automatic weighing machine is an electronic scale for automatic quantitative weighing of bulk materials. It can provide quantitative material for packaging machine. According to the different characteristics of the bulk material, it has a variety of feeding mode selection.

PRODUCT FEATURES

- High degree of automation, fast weighing, weighing accuracy in line with national standards.
- According to the different characteristics of the bulk material, it has a variety of feeding mode selection.
- Wide range of materials can be completed granular materials, powder, block, strip, sheet materials, such as weighing requirements.
- Easy to operate, easy to maintain, low cost of use.

SPECIFICATION

- Weighing speed: Max 2000bags/h (20~50kg/bag)
10~50 bags/h (500~2000 kg/bag)



FFS热合制袋包装机
FFS packaging machine



膜卷输送热合制袋
Film roll conveying



FFS包装机用户现场
FFS packaging machine user site



自动称量包装机(伺服控制给料)
Auto weighing machine (Servo control feeding)



自动称量包装机(毛重)
Auto weighing machine (Gross weight)



大袋自动称量包装机
Auto weighing machine for big bag



最大堆码速度大于2500袋/小时

Maximum stacking speed \geq 2500bags/hour

AUTOMATIC PALLETIZING MACHINE

全自动码垛机



产品功能

全自动码垛机是一种自动化程度高、集成度好的高效码垛设备。码垛机可将包装袋按预设方式编组，分层码放在托盘上。全自动码垛机通常作为包装线的后续设备，以提高包装车间的生产能力和转运能力。

产品特点

- 应用范围广，适用于各种包装袋的堆码需求；
- 结构合理，稳定性高；
- 操作简单，安全高效；
- 编组方式灵活；
- 可适用多种材质和尺寸的托盘。

技术参数

- 自动码垛能力：最大2500袋/小时（高位码垛机）；
- 包装袋重量：20~50公斤/袋；
- 适用包装袋：牛皮纸袋，塑料薄膜袋，塑料编织袋。

PRODUCT FUNCTION

Automatic palletizing machine is a kind of efficient palletizing equipment with high degree of automation, high degree of integration. The palletizing machine can organize the bag according to the preset mode, layered stacked on the tray. As a follow-up equipment of packing line, automatic palletizing machine can improve the production capacity and transport capacity of packaging workshop.

PRODUCT FEATURES

- Wide range of applications, it is suitable for the demand of various packaging bags.
- Reasonable structure and high stability of equipment.
- Simple operation, safe and efficient.
- Can be applied to a variety of materials and size of the tray.

SPECIFICATION

- Auto palletizing capacity: max 2500 bags/h.
- Package weight: 20~50kg/bag.
- Bag to be handled: Kraft bag, plastic film bag, plastic woven bag.



可控拉伸比的紧实套膜效果

Tight fitting film effect with controllable stretch ratio

AUTO FILM STRETCHING & COVERING MACHINE

全自动拉伸套膜机



产品功能

全自动拉伸套膜机由集膜拉伸、顶封热合、拉升和升降结构组成，可将预拉伸后的筒形薄膜套罩在堆码完毕的料垛整托产品外侧，利用预拉伸薄膜的回弹力将堆码完毕的料垛整托裹紧，实现整托料垛套膜包装的作业过程。

产品特点

- 可控纵向横向拉伸比，薄膜拉伸品质高；
- 独特开膜集膜拉伸套膜结构，套膜工效高；
- 通过2次套膜翻转，可实现无托盘码垛；
- 快速顶封热合和冷却技术，料垛整托顶部密封严密，防水性好。

技术参数

- 自动拉伸套膜速度：最大70托/小时。
- 套膜产品规格尺寸：高500~2500mm，长800~1400mm，宽800~1400mm（长方体或近似于长方体）。

PRODUCT FUNCTION

Composed of film stretching, top sealing heat sealing, lifting and lowering structures, the pre stretched cylindrical film can be covered on the outside of the stacked stack of products, and the rebound force of the pre stretched film can be used to tightly wrap the stacked stack of products, achieving the operation process of film packaging for the entire stack of materials.

PRODUCT FEATURES

- Controllable longitudinal and transverse stretching ratio, high quality of film stretching.
- Unique open film collection, stretching and stacking structure, high film covering efficiency.
- By flipping the film twice, palletizing without pallets can be achieved.
- Quick top sealing heat sealing and cooling technology, the top of the material stack is tightly sealed and has good waterproof performance.

SPECIFICATION

- Automatic stretching & covering film speed: maximum 70 pallets/hour.
- Specification and dimensions of film covering products: height 500-2500mm, length 800-1400mm, width 800-1400mm (rectangular or approximately rectangular).



高位码垛12包每层
Palletizer with 12 packages /Layer



高位码垛8包回字型
8 packages per layer



水泥高位码垛机
Cement palletizer



水泥袋垛拉伸套膜
Film stretching & covering machine



拉伸套膜机用户现场
User site



无托盘码垛套膜后的袋垛
Bag stack after film covering
(without pallet stacking)