



# 逐层式自动拆包机

Automatic Bag Opening Machine



# 苏州新值机械有限公司

SUZHOU NEW VALUE MACHINERY CO.,LTD

公司为以国务院颁布的《中国制造2025》为指导，立足于做专而精的中国民族制造业企业。我们是一家以专业、创新、为客户创造重要价值为宗旨的技术型公司。

提供散料(颗粒、粉末、破碎料)处理所需的所有的气力输送系统解决方案和设备。共有稀相负压系统、稀相正压系统、密相正压系统和密相负压系统四大类型。并提供气力输送系统应用中涉及到的散料的干燥、计量配比、搅拌、除尘等系统方案和设备单元。

Suzhou New Value Machinery Co.,Ltd.(NVM) is a technology-based company, guided by the "Made in China 2025" promulgated by the State Council, with the mission of strengthening China's national manufacturing industry, and with the purpose of being professional, innovative, and creating important value for customers.

NVM provides all pneumatic conveying system solutions and equipment units required for bulk material (particles, powder, crushed materials, etc.) processing. And the drying, metering ratio, mixing, dedusting of bulk materials involved in the application of the conveying system.

# 企业文化

## Company Culture

新值机械是一个理想的合作伙伴，除了技术优势外，它的优势还在于效率、设计和生产的优化以及由经验丰富的人员团队提供的客户服务。

- 新值最大的财富：我们的团队。
- 新值的核心价值：我们的创新能力。
- 新值的项目：我们一直在进行专业的项目管理，以控制项目的时间、质量和成本。
- 新值的客户：我们永远为客户服务。

NVM is an ideal partner whose strengths, besides the technology, lies in the efficiency, the optimization of design and production as well as the customer service that can be guaranteed by its team of experienced personnel.

- NVM's biggest fortune: Our People.
- NVM's core value: Our innovation.
- NVM's project: We always proceed a professional project management process to control the project time, quality & cost.
- NVM's customer: We service our customer never end.



# 我们的团队

## Our Team

新值是由一群志同道合的技术人员创立的，他们在工业设备的设计和制造领域，特别是在输送各种散装固体材料的自动化和管理方面，具有资深的行业经验。

新值设计、制造、安装和调试自己的组件和系统，提供从下单到运营的单一供应源。

积极参与管理和培训，保证了我们的能力和对客户的责任感，以及我们员工相互之间的了解。这是新值真正的资本和资源。

NVM was founded by a group of like minded technicians with qualifications and long experience in the sector of design and manufacture of industrial installations particularly for the automation and management of a variety of bulk solid materials.

NVM designs, engineers, manufactures, installs and commissions its own components and systems providing a single source supply from order placing to operation.

The active involvement of the management, primarily trained at NVM, guarantees competence and a sense of responsibility towards our customers along with an appreciation of interaction with our work force. This is a true capital asset and resource of NVM.



# 层拆式自动拆包机

## Automatic Bag Opening Machine

新值机械的DBL系列，逐层式自动拆包机，采用气缸抓手抓取整垛托盘上位于最上层料袋的物料，沿着移动导轨，经过一组圆形切刀，把抓取的一层物料料袋的底部切开，抖动料袋，物料落入底部缓存料箱，抓手把切过的空袋投入破袋压缩机内，然后进行托盘上下一层物料的拆包。

NVM's automatic bag opening machine, DBL series, the air cylinder grab is used to grab the materials in the uppermost bag on the pallets, along the moving guide rail, cut the bottom of the grabbed layer of material bag through a set of circular cutters, shake the bag, the materials fall into the bottom buffer box, put the empty bag into the bag compressor, and then unpack the next layer on the pallet.

特别适用于各种颗粒物料、粉料的25KG整垛托盘的自动化拆包。可以在高效自动化拆包的同时，最大限度地避免料袋外的污染物混入拆后的干净物料，在塑料、化工、食品、饲料等各行业均有广泛应用。

It is especially suitable for the automatic unpacking the bag of 25kg on the whole stack pallets of various granular and powder materials. It can efficiently and automatically unpack and avoid the pollutants to the greatest extent. It is widely used in plastics, chemical, food, feed and other industries.

根据客户要求，可选配全封闭式拆包系统，避免粉料的飞扬，车间环境友好。

According to the customer's requirements, it can be equipped with a fully enclosed unpacking system to avoid the flying of powder and make the workshop environment friendly.



# 拆包机工作步骤 Work Flow

	<p>步骤1 Step 1:</p> <ul style="list-style-type: none"><li>• 把整垛物料放入拆包工位（含托盘）。</li><li>• Automatic bag depalletizer full pallets (with stacked bags) are placed in the lift.</li></ul>
	<p>步骤2 Step 2:</p> <ul style="list-style-type: none"><li>• 整托盘物料被起升机提升，到达带有夹爪钩的平移穿梭机位置。</li><li>• 气缸推出夹爪钩，抓起最上层的所有物料袋。</li><li>• 起升机构往下运动，此时，被抓起的最上层物料袋吊在平移穿梭机下面。</li><li>• The full pallet in the lift is then lifted up to the shuttle with gripping hooks.</li><li>• The integrated grippers grab the top layer of bags.</li><li>• Then the lift moves down. The top layer of bags is now hanging onto the shuttle.</li></ul>
	<p>步骤3 Step 3:</p> <ul style="list-style-type: none"><li>• 平移穿梭机开始水平移动，经过旋转切刀上面。</li><li>• 旋转切刀切开被抓起的所有料袋底部，物料落入下面的缓存料斗。</li><li>• 一个旋转搅动机构，在料袋底部被切开的位置晃动切口位置，保证物料充分从料袋掉落。</li><li>• The shuttle then moves horizontally over the rotating blades.</li><li>• The blades cut the bags open, and the product falls into the product buffer.</li><li>• An agitating system ensures that the bags are emptied.</li></ul>
	<p>步骤4 Step 4:</p> <ul style="list-style-type: none"><li>• 当料袋物料清空干净，穿梭机抓着空的破袋，继续往前移动至废袋区域，扔下破袋，破袋可以被压实机压实。</li><li>• Once the bags have been emptied, the shuttle moves to the farthest position and drops the empty bags in the empty bag compactor.</li></ul>
	<p>步骤5 Step 5:</p> <ul style="list-style-type: none"><li>• 扔下破袋的穿梭机，将会快速水平移动返回到拆包工位，进行下一次拆包操作。</li><li>• 当整垛物料都被拆包完毕，可使用叉车把空托盘移走，继续放入下一整垛物料。</li><li>• After releasing the empty bags, the shuttle returns to its starting point to grab the next layer.</li><li>• When the pallet is completely empty, the empty pallet can then be taken away using a fork-lift truck (or be stacked with an optional pallet stacker).</li></ul>

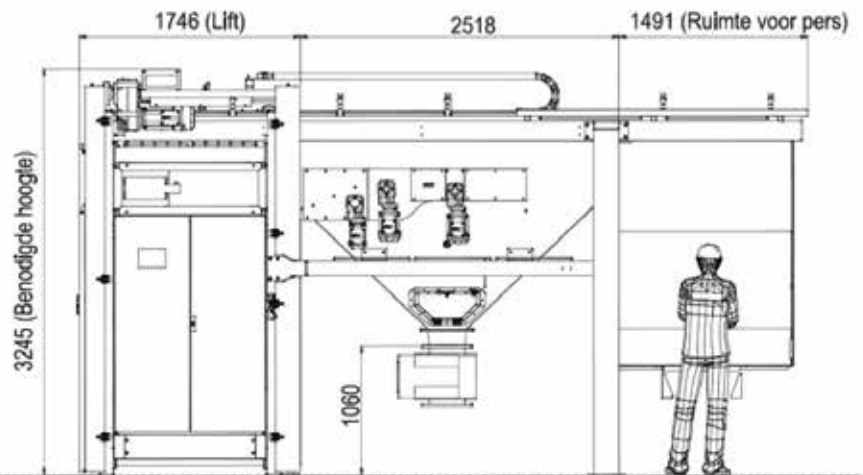
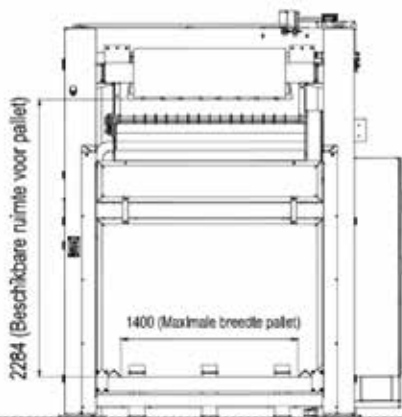
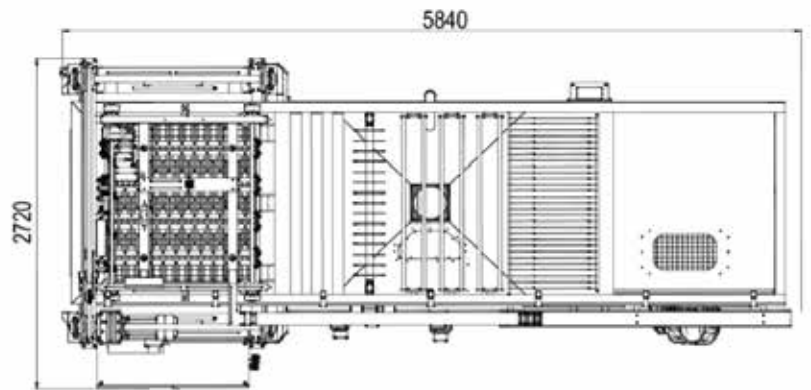
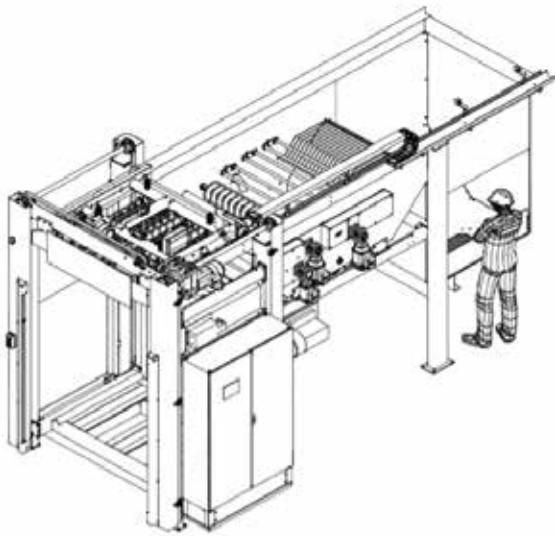
# 技术数据

## Technical Data

型号	包袋重量 (KG)	数量 p/h	吨 p/h	机器尺寸 L*W*H (mm)	机器重量 (KG)
D400A	25/50/75	400	10	5650*2280*3880	3000
D600A	25/50/75	600	15	5650*2280*3880	3000
D900A	25/50/75	900	22.5	5650*2280*3880	3100
D1300A	25/50/75	1300	32.5	3850*2280*3880	3200

## 布局图

### Layout



# 设备优点

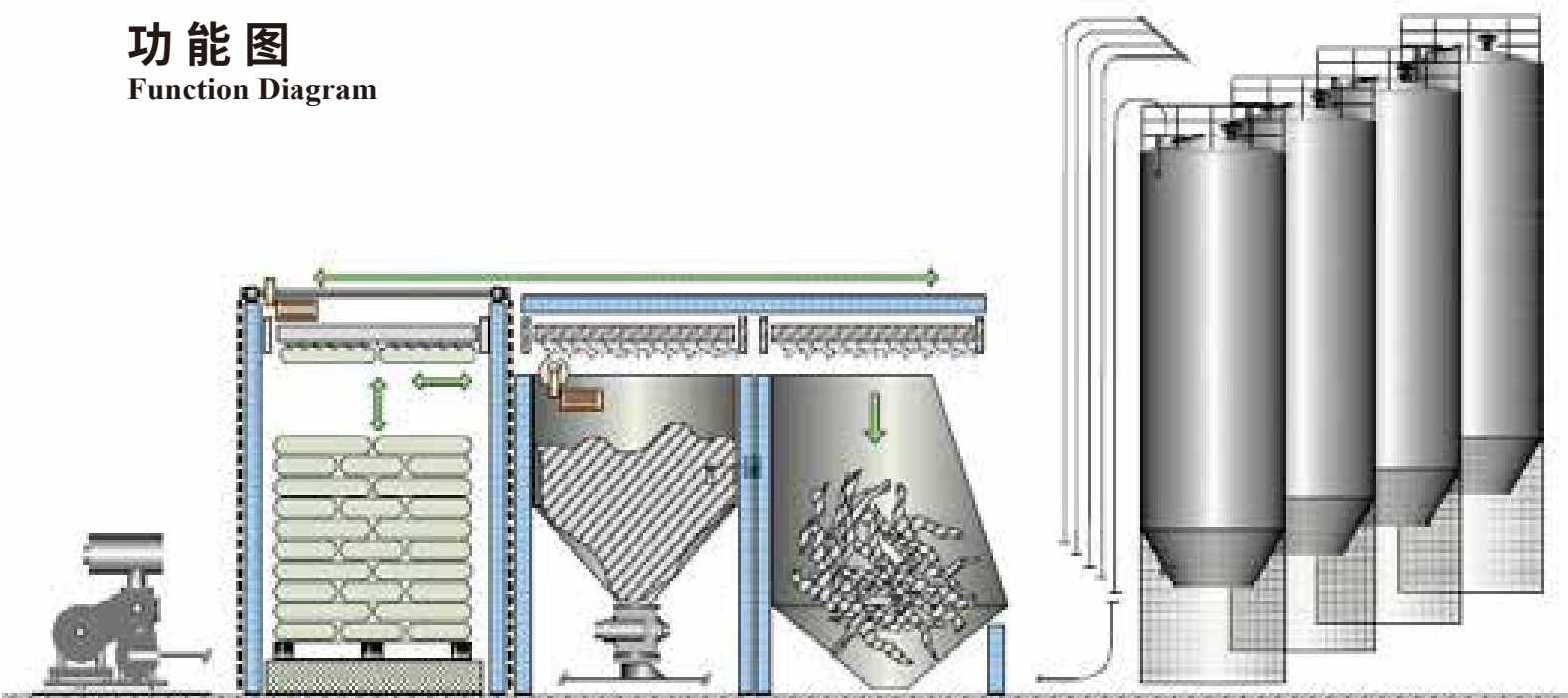
## Benefits

- 产量高：每小时拆包数量可达400 - 1300包；
- 拆净率高：物料残余废袋少，拆净率可达99.9%；
- 节能高效：主机安装功率仅需8.5KW；
- 物料污染少：污染物混入物料少；
- 自动化程度高：仅需一名工人使用叉车放入整垛物料至拆包工位；
- 占地空间小：主机设备长5650×2280×3880mm；
- 料袋适应性强：PE塑料袋，纸塑袋，麻布袋，编织袋等适用；25KG包，50KG包，75KG包均测试可用；料袋摆放不整齐，料袋杂乱放置均无障碍运行；
- 配置多：可根据客户需求定制化选择。

- **Greater throughput** : The number of unpacks can reach 400-1300/h;
- **Increased efficiency of raw materials** : More than 99.9% empty;
- **Energy saving**: The installation power of the main engine is only 8.5kw;
- **Less material pollution**: Less pollutants mixed into the material;
- **High automatic extent**: Only one worker needs to use a forklift to put the full pallets to the lift;
- **Minimum space utilisation**: The main equipment is 5650×2280×3880mm;
- **Versatile and mobile**: Providing sack handling for all industrial environments, any location in the plant;
- **Unlimited sacks** : PE plastic bags, paper plastic bags, sacks, woven sacks, etc; 25kg, 50kg , 75kg package are applicable; The bags are not placed in order, and the bags are placed in disorder, all of these conditions can operate without obstacles.);
- **Multi peripheral equipment**: It can be customized according to customer needs.

## 功能图

### Function Diagram





## 配套设备选项

### Peripheral Equipment Options:

- 自动全托盘送料输送机;
  - 自动空托盘移除输送机;
  - 自动空托盘堆垛机;
  - 自动全托盘送料输送机;
  - 自动空袋压实机;
  - 用于粉末和吸气/送气连接的机器外壳。
- 
- Automatic full pallet feeding conveyor;
  - Automatic empty pallet removal conveyor;
  - Automatic empty pallet stacker;
  - Automatic full pallet feeding conveyor;
  - Automatic empty bag compactor;
  - Machine casing for powder and suction/aspiration connections.

