

部分客户  
Partial Client

可选择配套功能与设备 Optional supporting functions and equipment

- ◆ 六轴机器人拆垛系统、线性机器人系统、真空辅助提升系统  
Six axis robot de-palletizing system, linear robot system, vacuum assisted lifting system
- ◆ 三维视觉识别系统  
Three-dimensional vision recognition system
- ◆ 物料输送系统(气流、机械)  
Material conveying system (air flow, mechanical)
- ◆ 粉尘收集系统  
Dust collecting system
- ◆ 废袋自动收集系统  
Automatic waste bag collecting system
- ◆ 托盘(栈板)自动回收系统  
Pallet automatic recovery system
- ◆ 称重、配料系统  
Weighing and dosing system
- ◆ 物料仓储系统  
Material storage system
- ◆ 金属检测系统  
Metal detection system



袋装原料全自动拆包投料系统解决方案  
Sacked raw material automatic unpacking and feeding system solutions.

- ◆ 替代传统人工拆袋作业  
Replacement of traditional manual bag unpacking
- ◆ 改善粉尘作业环境  
Improve the dust in the working environment
- ◆ 实现自动化、智能化、标准化生产  
Achieve automation, intelligent, standardized production
- ◆ 提供成套自动化、智能化生产设备  
Provide complete sets of automatic and intelligent production equipment



汉瑞普泽粉粒体技术(上海)有限公司  
Hanrui Puzer Bulk Handling Technology (Shanghai) Co., Ltd

地址:上海市金山区亭卫公路9299弄150号

Add:NO.150,Lane9299,Tingwei Road,Jinshan District,Shanghai,China

Website: www.chinahanrui.com www.hanruiPUZER.com

电话Tel: +0086(21)51917600 51917785 51917787 51917798

传真Fax: +0086(21) 61304667

邮箱E-mail: sales@hanruiPUZER.com sales@hanrui.cn

汉瑞普泽粉粒体技术(上海)有限公司  
Hanrui Puzer Bulk Handling Technology (Shanghai) Co., Ltd



### 公司简介

汉瑞普泽粉粒体技术(上海)有限公司(原上海汉瑞机械工程有限公司)创建于2002年,上海市高新技术企业,中国石化集团一级供应商,全国管道物料输送专业委员会常务理事单位。是专业固体散料处理系统一揽子解决方案提供商,包括工程设计承包、设备制造、安装调试与技术服务于一体的高新技术企业。主要服务于石油化工、化纤、塑料、医药、食品、军工、环保、包装、涂料、烟草等行业。

### 袋装原料全自动拆包系统

全自动拆包系统主要应用于化工、涂料、医药、食品、电子、造纸、军工等行业固体袋装原料(如塑料及添加剂、混合剂、助剂等干燥的粉末、颗粒物料)进行全自动拆包作业。已经应用于BASF、SOLVAY、P&G、联合利华、ASHLAND、ANGRO、普派、塞拉尼斯、博禄、中石化集团青岛炼化、仪征化纤、华东医药、海正制药、中烟摩迪等中外著名企业。

全自动拆包机为科技部2009年度国家创新基金项目,获1项国家发明专利和6项实用新型专利。

### 功能与特点

- ◆ 减少用工数量、减轻劳动强度。
- ◆ 粉尘无泄漏、改善作业环境。
- ◆ 对物料无污染,物料损失低。
- ◆ 能满足食品卫生级、防爆、有毒物料等特殊工况的要求。
- ◆ 自动化、智能化运行:系统自动监测与实时显示运行状态、自动计数与计量、联锁、报警与输出信号反馈,可以与用户中央DCS控制系统联锁。
- ◆ 可以从码垛托盘自动拆垛、拆包、废袋自动收集打包、托盘自动回收、物料输送、粉尘收集、称重配料等功能,真正实现全自动、智能化生产。

### 主要参数

- ◆ 拆包能力:2000包/小时(最大)。
- ◆ 拆包范围广:0.1kg~70kg/包。
- ◆ 物料损失率:千分之一~万分之一。
- ◆ 粉尘排放浓度:1mg/m<sup>3</sup>~30mg/m<sup>3</sup>。
- ◆ 粉尘收集效率:99.9%~99.999%。
- ◆ 最小收集粉尘粒径:0.1um。
- ◆ 可拆的包装袋:牛皮纸、塑料薄膜、编织袋、麻袋、复合袋等。

### 典型工程应用

- ◆ 聚合物(聚丙烯、聚乙烯、聚苯乙烯、聚氯乙烯、聚碳酸酯、聚酯、尼龙、聚甲醛、ABS等)。
- ◆ 食品医药原料(葡萄糖、白砂糖、蛋白粉、奶粉、山梨醇、味精、食盐、咖啡、麦芽糊精、酵母、小麦、大米、黄豆、胡椒粉、柠檬酸、谷朊粉、淀粉等)。
- ◆ 化工原料(尿素、碳酸氢铵、硝酸铵、硝酸钠、碳酸锂、氯化钾、氢氧化钠、工业盐等)。
- ◆ 染料、涂料、油漆、陶瓷(钛白粉、石膏、碳酸钙、硫酸钡、铁钛粉、重钙、滑石粉、高岭土等)。
- ◆ 助剂、污水澄清剂、添加剂、洗涤剂(碳酸钙、巴碳、活性炭、洗衣粉、漂白粉等)。
- ◆ 建材:水泥、石英砂、石灰、胶粉等。
- ◆ 其它行业:其它适合自动拆包的袋装散料(粉体、颗粒物、片状等)。

### 主要产品系列 Main product series

| 型号<br>Model | 最大拆包能力<br>Maximum unpacking<br>Capacity | 适合包装袋<br>Suitable packing bag              | 适合的物料<br>Suitable material | 设备类型<br>Equipment type                  |
|-------------|---|--|----------------------------|---|
| HGA-1       | 800包/小时<br>800 Bag / hour               | 薄膜、牛皮纸、编织袋<br>Film, kraft paper, woven bag | 粉料、颗粒<br>Powder, granule   | 离心筛分式<br>Centrifugal screener type      |
| HGA-2       | 2000包/小时<br>2000 Bag / hour             | 薄膜袋<br>Film                                | 粉料<br>Powder               | 微型包装袋用<br>Mini packing bag              |
| HGA-3       | 400包/小时<br>400 Bag / hour               | 薄膜、牛皮纸、编织袋<br>Film, kraft paper, woven bag | 粉料、颗粒<br>Powder, granule   | 水平单链条式<br>Horizontal single chain type  |
| HGA-4       | 600包/小时<br>600 Bag / hour               | 薄膜、编织袋<br>Film, woven bag                  | 粉料、颗粒<br>Powder, granule   | 水平双链条式<br>Horizontal double chain type  |
| HGA-5       | 1200包/小时<br>1200 Bag / hour             | 薄膜、编织袋<br>Film, woven bag                  | 颗粒<br>Granule              | 整垛拆包式<br>The whole stack unpacking type |
| HGA-6       | 200包/小时<br>200 Bag / hour               | 薄膜、牛皮纸<br>Film, kraft paper                | 粉料、颗粒<br>Powder, granule   | 真空拆包式<br>Vacuum unpacking type          |
| HGA-7       | 600包/小时<br>600 Bag / hour               | 薄膜、编织袋、麻袋<br>Film, woven bags, jute bags   | 粉料、颗粒<br>Powder, granule   | 倾斜双链式<br>Inclined double chain type     |



### Company profile

Hanrui Puzer Bulk Handling Technology (Shanghai) Co., LTD. (formerly Shanghai Hanrui Machine Engineering Co., LTD.) founded in 2002, is Shanghai high-tech enterprise, first-tier supply of Sinopec Group, and the standing director of National Pipeline Material Handling Technical Committee. Hanrui specializes in providing professional package of solid bulk material handling system solution, including engineering contracting, equipment manufacturing, installation, debugging and technical services. Our main services are in petrochemical industry, chemical fiber, plastic, medicine, food, military industry, environmental protection, packaging, paint, tobacco and other industries.

### Sacked raw material automatic unpacking system

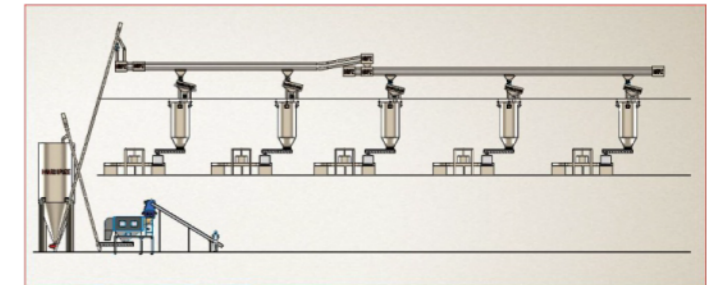
Automatic unpacking system is mainly used to unpack sacked raw material (such as plastics and additives, mixture, auxiliaries, dry powder, granule material) in the trade of chemical industry, coating, medicine, food, electronic, paper making, military industry and other industries. The system has been applied to BASF Solvay, P & G, Unilever, Ashland, ANGRO, Printpack, Celanese, Borouge, Sinopec Qingdao Refining & Chemical, Yizheng Chemical fiber, Huadong Medicine, Hisun pharmaceutical, tobacco moody and some other well-known Chinese and foreign enterprises. Automatic unpacking machine was awarded 2009 national innovation fund projects and achieved one national invention patent and Six utility model patents.

### Function and characteristics

- ◆ Reduce the amount of workers as well as the labor intensity.
- ◆ No dust leakage and improve the operating environment.
- ◆ Never pollutes the material and low material loss.
- ◆ Can satisfy the food level, explosion-proof, toxic materials and other special conditions.
- ◆ Automatic and intelligent operation: system automatic monitoring and real time display of running state, automatic counting and measurement, interlock, alarm signal output and feedback can interlock with the customer's central DSC control system.
- ◆ Other functions like automatic de-palletizing from stacking pallet, unpacking, automatic waste bag collecting and packing, pallet automatic recycling, material handling, dust collecting, weighing and dosing can realize the automatic and intelligent production.

### Main parameters

- ◆ Unpacking capacity: 2000 bags/ hour (maximum).
- ◆ Wide range of unpacking: 0.1kg ~ 70kg/ bags
- ◆ Material loss rate: 1/1000 ~ 1/10000
- ◆ Dust emission concentration: 1mg/m<sup>3</sup>~30mg/m<sup>3</sup>
- ◆ Dust collection efficiency: 99.9% ~ 99.999%
- ◆ Minimum dust particle size: 0.1um
- ◆ Packing bags material: kraft paper, plastic film, woven bag, jute bag, compound bag etc.



### Typical engineering application

- ◆ Polymer (polypropylene, polyethylene, polystyrene, polyvinyl chloride, polycarbonate, polyester, nylon, pom, ABS, etc.).
- ◆ Food and pharmaceutical raw materials (glucose, white granulated sugar, protein powder, milk powder, sorbic acid, alcohol, monosodium glutamate, salt, coffee, maltodextrin, yeast, wheat, rice, soybean, pepper powder, citric acid, gluten flour, starch, etc.).
- ◆ Chemical raw materials (urea, ammonium bicarbonate, ammonium nitrate, sodium nitrate, lithium carbonate, chloroacetic acid, potassium chloride, sodium hydroxide, industrial salt, etc.).
- ◆ Dye, coating, paint, ceramic (titanium dioxide, gypsum, calcium carbonate, barium sulfate, ferrotitanium powder, coarse whitening, talcum powder, kaolin, etc.).
- ◆ Additives, water clarifying agent, additives, detergent (calcium carbonate, carbon, activated carbon, washing powder, bleaching powder, etc.).
- ◆ Building materials: cement, quartz sand, lime, rubber powder, etc.
- ◆ Other industries: other bulk bags which are suitable for automatic unpacking powder (powder, particles, flake, etc.).

