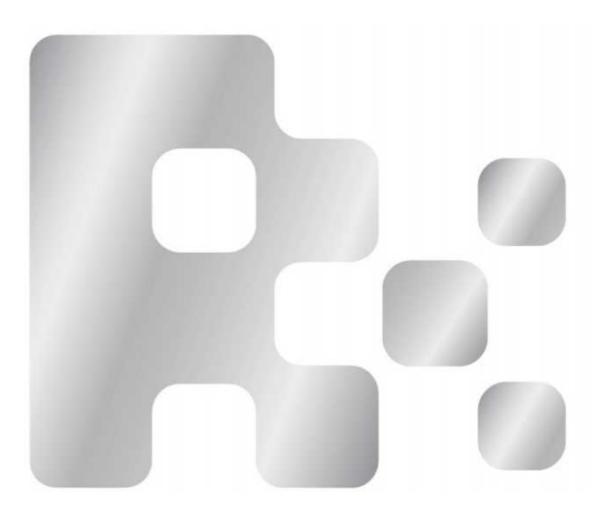




www.rxinmachinery.com

INTELLIGENT FEEDING/CONVEYING/BA TCHING/MIXING SOLUTION







5F of ZhuoDa Academician building,No.380 North Xinshi Road, Shijiazhuang ,Hebei Province,China Tel: 0311-8520570918903314760

www.rxemc.com www.rxinmachinery.com



SHIJIAZHUANG RONGXIN SCIENCE AND TECHNOLOGY CO.,LTD 石家庄荣信科技有限公司



Intelligent production line for the entire powder factory

Planning, design, and implementation

CONTENTS

PART 1/ABOUT US
. Introduction ······2
2. Certificate & Honor······4
3. Company Culture·····5
4. Company Strength·····6
5. Application·····8
PART 2/STANDARD EQUIPMENT
. Dust-free enclosed conveying system14
2. Tube chain conveyor·····24
3. Ton bag packing system·····27
4. Mixer28

5. Customer reference ·······32



COMPANYPROFILE



Driven by technology and seeking survival through quality

Shijiazhuang RongxinScience and Technology Co., Ltd. was established in 2007, headquartered in the central city of Shijiazhuang in the Beijing Tianjin Hebei region. It is a high-tech enterprise with independent intellectual property rights, specializing in scheme planning, design and development, production and manufacturing, sales support, and aftersales service of feeding, conveying, mixing, and packaging equipment. The company has multiple patented technologies and a complete product system, mainly involving raw material formula metering and conveying systems, mixing systems, industrial automation PLC, DCS industrial control systems, barcode error prevention and traceability systems, etc. Rongxin Technology focuses on intelligent ingredient systems, and its mature material automation processing technology has been widely applied in the new energy industry, metal materials industry, chemical industry, food and pharmaceutical industry, high-temperature materials industry, and other fields.









Founded

Material types

turnkey Project





HONORARY QUALIFICATIONS

荣誉资质

Rongxin Technology focuses on technological innovation and has been awarded multiple honors such as "High tech Enterprise", "Innovative Enterprise", and "Gazelle Enterprise". We currently have over a hundred patented technologies and multiple certification certificates.

































CORPORATE CULTURE

企业文化

企业宗旨

Corporate Purposo

Putting people first, uniting for common prosperity, exploring innovation, and establishing a business with integrity

经营宗旨

Business Purpose

Integrating persistence with inheritance, innovation with development

质量宗旨 Quality Purpose

Driven by technology, striving for survival through quality , continuously improving core technologies, and creating

企业理念 Philosophy

Employees grow together with the company

value for customers.



Having advanced equipment, excellent management, and efficient production can meet a large number of production needs. We have a comprehensive quality control system and technical literacy to ensure high-quality production of every product. Strict management is implemented in every process from raw material procurement to production and delivery, effectively improving product quality and production capacity









Integrated laser cutting of plates and tubes

·Hydraulic rounding machine

·CNC center

.Machining lathe

Technology

The company has a strong technical team with rich experience and can provide efficient production solutions.

Technical team proportion 50%

Including graduate students from universities, senior engineers in the industry, and undergraduate students from universities, responsible for mechanical, electrical, programming and other work, with over 5 years of work experience.

Production personnel account for 25%

The workshop adopts 5S lean management to ensure product quality.

Technology sales account for 10%

The sales team has rich design and on-site experience, and can provide customers with a complete set of optimized solutions.

Other Parts15%

Including the finance department, comprehensive management department, procurement department, etc., providing strong logistical support for the company's products and project progress.

Rich R&D experience

Since the establishment of the company, innovation has been the driving force for enterprise development, accumulating rich research and development experience and customer base. Currently, over 50% of customers have purchased new products for the second time

A top-notch sales team

The sales team has rich professional knowledge and has been continuously engaged in sales work in the industry for more than 5 years.

Construction of automated production lines

The company is preparing to build an automated production line, and once the entire system is mature, it can achieve segmented products or complete technology output for different customers, enabling rapid product promotion and replication, and winning with efficiency.

O6 www.rxemc.com



APPLICATION

Powder automatic conveying and feeding products

After more than ten years of experience accumulation and the practice of over 2000 types of materials, we have carefully crafted automated batching systems and supporting equipment for multiple industries and categories.







Pharmacy 制药行业



Alloy 合金 Powder metallurgy





Lithium battery



High temperature materials



Friction material 石家庄菜信科技有限公司 | 09



PRODUCTS PRESENTATION

Tube Chain Conveyor

Fully enclosed conveying, dust-free; Protective gas can be filled inside the pipeline, achieving safe transportation; Multiple entry and exit points can be achieved during the conveying process; capable of conveying powder, granules, unaffected by m aterial moisture content

Ton Bag Discharging Station

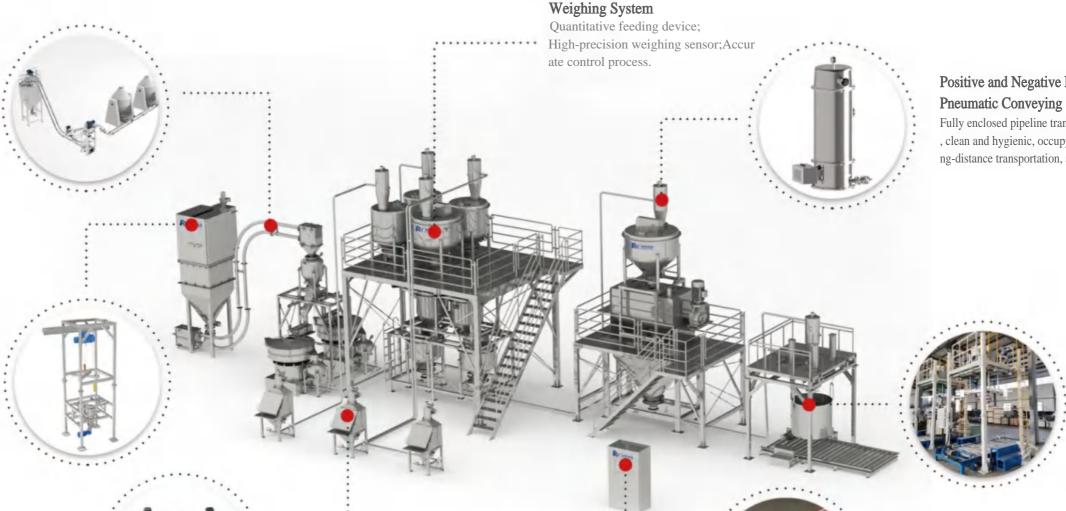
Dust Management: Minimizing environmental impact by controlling dust du ring bag opening.

Worker Ease: Making operations easier for workers b y reducing physical strain. Moisture Control: Managing moisture to prevent clumping and improve bag discharge

Small Bag Dust-free Feeding Station

During feeding, dust generated by materials is drawn i nto the filtration system through negative pressure crea ted by centrifugal

fans or exhaust pipes. This separates materials from the air, preventing dust dispersion and protecting both the environment and operator health.



Positive and Negative Pressure

Fully enclosed pipeline transportation, leak-proof , clean and hygienic, occupying minimal space, lo ng-distance transportation, and large throughput.

Ton Bag Packaging Machine

The packaging machine adopts a gravit y-controlled dual-speed feeding device, with adjustable packagi ng speed and accuracy.

PLC Control System

Fully automated control, intuitive monitoring of operational statu s,reserved ports for comprehensive factory control

10 www.rxemc.com 石家庄荣信科技有限公司 11





DUSTFREECLOSEDFEEDINGSYSTEM

无尘密闭投料系统

NO.1 Dust Free Small Bag Unloading Machine

used for manually feeding small bag packaging materials. Its function is to suck the material dust generated during feeding into the negative pressure formed by the centrifugal fan or suction pipeline into the filtration system, separating the material from the air, preventing dust from scattering and escaping, polluting the surrounding environment, and protecting the operator's health.

Application:unpacking, releasing, and unloading small bag materials in industries such as pharmaceuticals, chemicals , food, and battery materials. Widely used to connect suction machines, pipe chain conveyors, equipment entrances, etc.

Modular design, configurable for screening, impurity removal, and fast breaking devices

Mirror treatment on the inner wall, effectively eliminating material static electricity



Simple and convenient operation, installation, and maintenance

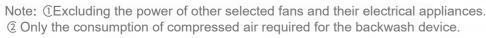
Eliminate dust flying and improve working environment

Main Structure

Figure 1, Three parts: a fan, a filter element component, and the main body of the feeding station.

Technical Parameters

Model	WT100/150/200/300
Volume (L)	100/150/200/300
Power (KW) ①	0.75/1.1
consumption of comresiion air ②/Pressure	50/0.6
(L/min)/MPa	qucik in stall 8inch
Discharge interface	Ф100/ Ф150
Dust removal fan interface	150/200
Overall Dimensions(mm)L*W*H	1000X900X2000





NO.4

Two-in-one Feeding Station

By using a vibrating screen (safety screen), large blocks of materials and foreign objects can be intercepted, ensuring that qualified products (qualified materials) meet the requirements enter the next process.

Model	Screening area	Power (kW)	Speed (rpm)	dynami load		Centrifugal force(kN)	Flow
RXWT-800	0.42	2x0.18	1460	800N	1500N	2.5x2	1550-997
RXWT-1000	0.64	2x0.25	1460	500N	2500N	5x2	1550-997



Application Industry: Pharmaceutical industry, chemical, food, battery etc.

Simple structure and easy to operate

Eliminate dust flying and improve working environment

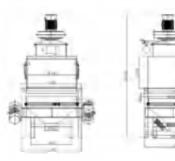
Advantages

Direct screening to remove foreign objects.

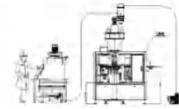
Compact structure and convenient operation

RXWT-100

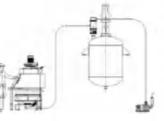




Application



Feeding Conveying Packaging



Feeding Conveying Reaction kettle







Bag feeding - Reaction kettle Bag

Bag feeding - Pipe chain



Ton Bag Discharging Station

The ton-bag feeding station is designed to mitigate the environmental impact of dust dispersion during the opening of large bags, reduce the strenuous physical labor of operating personnel, and address issues such as clumping and difficulty in discharging material due to moisture absorption during bag opening.

The Product Features

- Sealed bag opening, can be equipped with a clamp for sealed dust removal;
- The unpacking method can be manually assisted bag opening or automatic bag cutting;
- A configurable vibrating plate equipped with mechanisms for tapping, stirring, and mixing, suitable for materials with poor flowability.



The Primary Configuration List

Serial Number	Device Name	Specifications	Material	Remark
1	Frame	100×100×4	Q235/304/316L	
2	Percussion Device	Pneumatic Control	Pneumatic Control Q235/304/316L	
3	Electric Hoist	1T、2T、3T	Q235/304/316L	
4	Dust Removal	10-0.5µm Optional	Filter bag/Filter cartridge	
5	Temporary Storage Bin	0.4m³-Optional	Q235/304/316L	
6	Unpacking Format	Manual/Automatic	304	
7	Suspension Rack	800-1200mm	Q235/304/316L	

Optional configuration: Export flanges and clamps optional; cutting knife; built-in magnetic iron removal

应用场景







Hermetic Bag Sealer

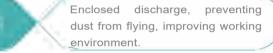
The sealer is a semi-automatic device used for ton bag's discharging. It operates by elevating the ton bag to the material inlet, whereupon a manual button is pressed. This action triggers the clamping cylinder to ascend, allowing the operator to pull the discharge opening of the packaging bag into the inner ring of the clamping device. Upon pressing the clamping button, the clamping cylinder descends, effectively securing the bag opening by compressing it against the inner ring using a sealing ring. At this point, the operator unties the discharge opening of the ton bag, initiating the material unloading process through the inner ring of the ton bag unloader. The unloading process is characterized by dust-free discharge, as the material begins to discharge along the pipeline under gravity, aided by a tapping device to facilitate the complete emptying of the ton bag by allowing the material to fall under gravity into the buffer tank, thus completing the unpacking and unloading process.



The structure is simple, with low production costs, and convenient operation.



Minimize residual materials and cross-contamination



Can be directly connected and used with glove box, hopper, reaction vessels, and other equipment.

The process of opening the bag generates no heat and is safe from explosions

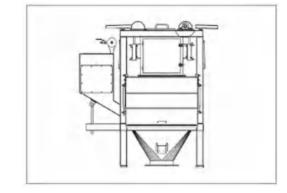




NO.4

Two-in-one Feeding Station

The combined feeding station for ton bags and small bags enables the simultaneous packaging of both ton bags and small bags, accommodating multiple packaging specifications on the same equipment. Moreover, it occupies a small footprint and features a lightweight overall structure.



- - This device features an auxiliary unloading (tapping) function.
- The lower part is equipped 5 with an auxiliary unloading device to ensure that all materials are transferred to the downstream equipment.
- Wheels can be installed at the base to facilitate flexible movement of the equipment.

- Equipped with a dust collection system, it can return the collected dust to the feeding station to reduce dust leakage during the feeding process, thereby avoiding material waste.
- The interior is equipped with baffles to prevent foreign objects and large pieces of material from entering during the feeding
- process.
- The equipment utilizes a bagpressing mechanism to prevent dust leakage..
- The device is equipped with a barcode anti-misplacement device to prevent workers from feeding incorrectly.

CLOSED CONVEYING SYSTEM

密闭输送系统



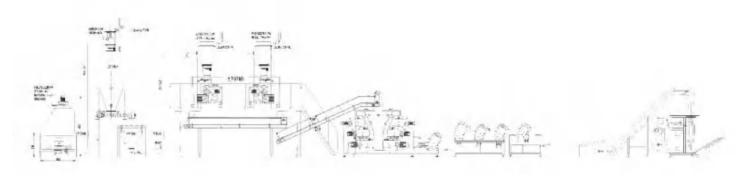
Vacuum negative pressure conveying utilizes the pressure difference to create a stream of air within the conveying pipeline. Under the influence of this strong airflow, materials at one end are instantly transported through the sealed pipeline to a container at the other end, completing the conveying process.

Three types of machine models have been developed based on application environments and functional characteristics.

Product Features



Application Scenario





01 STANDARD VACUUM CONVEYOR



Product Characters

Independent flip blown filter element automatic cleaning

Application

Suitable for conveying powder and granular bulk materials in industries such as medicine, food, chemical, batteries, and rubber, and automatic feeding of equipment such as mixers, packaging machines, crushers, and vibrating screens.

Mainly used for simple conveying requirements, conventional conveying conditions, and low cost budget.

Main Structure

The main structure consists of six parts: upper head, filter element component, intermediate buffer compartment, discharge valve, control box, clamp, and sealing ring.



Technical Parameter

Parameter Model	RXXL-14	RXXL-33	RXXL-56
Volume (L)	14	33	56
Power (W)	200	200	200
Compressed air consumption/pressure (L/min) /MPa	100/0.6	100/0.6	200/0.6
Vacuum interface	Quick2inch	Quick 3inch	Quick 4inch
Feed interface	Quick2inch	Quick 3inch	Quick 4inch
Production capacity t/h	2.5-5.5	4-7	6-8
Weight(kg)	37	40	65
Overall dimension(mm) D×H	ф400×1000	ф400×1250	ф650×1350

Note:

Does not include the power of the matching vacuum pump and its electrical appliances. Excluding the consumption of compressed air when using a vacuum generator.

This parameter is measured when the conveying distance is not more than 5 meters and the material is flour.

If there are changes in the conveying distance and material type, please call for consultation.





CIP&SIP VACUUM CONVEYOR

Applied in the pharmaceutical and food industries, the conveying system can support equipment online cleaning (CIP) and online sterilization (SIP)



Product Character

Unique flat membrane filtration system

Inert gas protection transportation ensures safe feeding

RXXL-400

Application

Suitable for conveying medium powder and granular materials in industries such as pharmaceuticals, food, and fine chemicals, it can be the feeder for tablet presses, capsule filling machines, dry granulation machines, and reaction kettles.

RXXL-200

Technical Parameter

Model

輸送距离	



Conveying Distance(m)	0-50	0-60	0-70	
Conveying Height(m) 0-20		0-25	0-30	
Model	RXXL-200	RXXL-300	RXXL-400	
Density(kg/L) 0.1-3		0.1-3	0.1-3	
Partical Size(um)	3-2000	3-2000	3-2000	
Conveying Capacity(L/H)	90-3000	180-8000	450-14000	

RXXL-300

Weighing Type Vacuum Conveyor

Product Character

High precision measurement and weighing

Material: 304L, 316L or customized



Application

Suitable for conveying powder and granular bulk materials in industries such as pharmaceuticals, food, chemicals, batteries, and rubber, and automatic feeding of equipment such as mixers, reactors, and mixing tanks.

The weighing type suction machine is used for automatic conveying and weighing of single batch, single weight materials, or multiple types of materials.



Pharmaceuticals





Chemical



Battery



Rubber&Plastic

Breather valve vacuum Material port Load cell

Structure Diagram





TUBE CHAIN CONVEYOR

管链输送机



Pipe chain conveyor is a device that achieves material transportation by moving bulk materials through a chain plate inside a closed pipeline.

CHARACTERS



Closed and environmentally friendly Closed transportation throughout the process, without dust or odor leakage.



Multi point feeding and discharging
During the conveying process, it is possible to achieve
multi position feeding and discharging.



Flexible layout

The pipeline has flexible turning and can achieve three-dimensional space transportation.



Safe and reliable

Inert pneumatic protection inside the pipeline for transporting flammable and explosive materials.



Strong material adaptability

Powders and particles can be transported, unaffected by material moisture content.

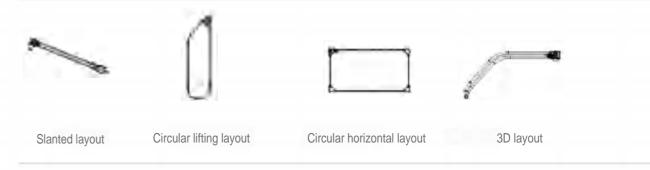


Long conveying distance

The one-way horizontal distance reaches 60 meters, and the vertical height is 40 meters.

Layout form





Technical Parameter

Model	Motor Power	linear velocity M/S	Speed R/min	Conveying capacity M3/H	Max Torque N-M	Max Tensilo N	e force Notice
PC-80	1	0.30	20.7	3.9	1810	1300	Low speed maximum pulling force
F C-00	4.0	0.40	24.9	4.7	1504	1090	reaches 1.5 tons
PC-100	PC-100	0.30	17.5	6.0	2943	1800	Low speed maximum pulling force
PC-100 5.5	5.5	0.40	23.4	7.0	2200	1350	reaches 2 tons
PC-150	7.5	0.30	13.4	13.7	5240	2450	Low speed maximum pulling forc
1 0-130	1.0	0.40	17.9	18.2	3923	1840	reaches 3 tons
PC-200	0.30	0.30	11.4	27.4	9034	3590	Low speed maximum pulling force
11.0	11.0	0.40	15. 2	36.5	6776	2700	reaches 4 tons

24 | www.rxemc.com 石家庄荣信科技有限公司 | 25



Application Field



Pigment, Dye, Paint, Carbon Black, Zinc White Powder, Activated Carbon, etc.

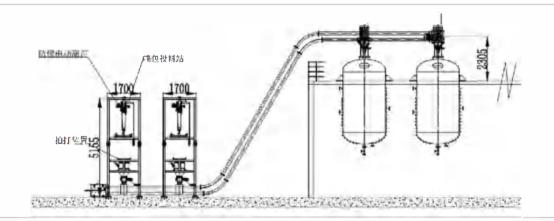


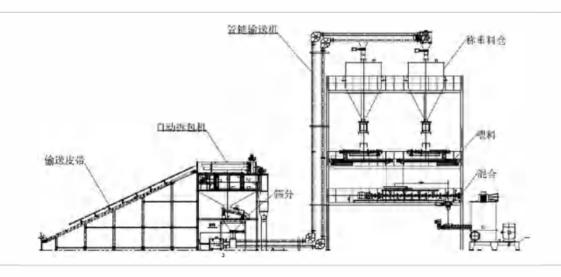
Urea, Pesticide Adjuvant, Copper Concentrate Powder, Coal Dust, Phosphate Ore Powder, etc.



Grains, Powdered Milk, Food Additives, etc.

Tube Chain Conveyor Process Solution





TON BAG PACKAGING SYSTEM

吨袋包装系统

The ton bag packaging machine is suitable for packaging granular materials and powdery substances. It consists of mechanical devices, electronic platform scales, and a microcomputer intelligent control system. The mechanical devices include flow tubes, gravity-controlled dual-speed feeding devices, bag-clamping mechanisms, weighing mechanisms, lifting mechanisms, conveying equipment, brackets, etc. The control system includes weighing sensors, intelligent weighing instruments, and PLC program control. Except for manual bagging, this machine adopts automatic control for bag expansion, fast/slow feeding, quantitative feeding, bag clamping, and bag unloading. The instrument can set control parameters such as fast/slow feeding quantity and display overload alarms. The equipment features fast packaging speed, high packaging accuracy, good stability, and easy operation.

The electronic scale packaging machine adopts gravity-controlled dual-speed feeding device, with adjustable packaging speed and accuracy. When the packaging machine is working, except for manually hanging and bagging, all other processes are completed automatically, including feeding, measuring, loosening bags, unhooking, conveying, etc. The machine features low noise, minimal dust, compact structure, accurate measurement, simple operation, easy installation, and environmental friendliness.



Technical Parameters

Packaging Capacity	10-20(bag/h)
Measurement Range	500-1000 (KG/bag)
Measurement Accuracy	≤±0.5%
Working Pressure of the Gas Source	0.6-0.8Mpa、0.6m3/min
Return Air Dust Removal Wind Pressure	-0.01bar ~ -0.03bar

26 | www.rxemc.com



MIXING EQUIPMENT

混合设备

Efficient



Type of materials used: powder particles + a small amount of additives or liquid, sticky materials, high-moisture materials, easy-to-bond materials, etc.

Single unit loading volume range/loading volume per batch: 50L~2500L(Customized services are provided for larger loads)

Equipment material selection: stainless steel 304, 316L, manganese steel, titanium steel, duplex steel, etc.

Usage conditions: heating mixing, liquid mixing, vacuum mixing

Explosion-proof requirements: gas explosion-proof, dust explosion-proof, protection level

Discharge requirements: butterfly valve, semi-ball valve, others

Model	Volume (L)	Chargeable volume (L)	Barrel speed (r/min)	Bleed speed (r/min)	Motor power (kw)	Overall rize L*W*H(mm)	Total weigh (kg)
RGH-50S	50	38	25	50	1.1	1550 × 700 × 1100	500
RGH-200S	200	150	21	42	2.2	2000 × 850 × 1450	700
RGH-800S	800	600	14	28	5.5	2600 × 1200×1850	2000
RGH-1000S	1000	800	11	22	7.5	2700 × 1250×1850	2500
RGH-1500S	1500	1200	8	16	15	2950 × 1770×2200	2700
RGH-2000S	2000	1600	6	12	18.5	3300 × 1870×2500	3000
RGH-3000S	3000	2400	6	12	22	3900 × 2000×2890	3700











28 | www.rxemc.com 石家庄荣信科技有限公司 | 29





















OUR CUSTOMERS

我们的客户













































































































































