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上海嘉迪机械有限公司  
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NO.3

# FULL-AUTOMATIC

VACUUM PACKAGING EQUIPMENT

全自动真空包装设备

# FULL-AUTOMATIC

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### NO.3

#### 公司简介

上海嘉迪机械有限公司坐落于上海市黄浦区外环线春江路500号,是一家拥有二十多年专业设计研发,生产制造各类乳制品、肉类、果蔬浓缩汁、果蔬浓缩液(膏)、果蔬原浆、果酱粉、果酱饮料、茶饮料成套加工设备的生产厂家,为国内数十家食品、果汁、饮料加工企业和大专院校、科研院所的中试实验室提供了全套设备及成套交钥匙工程。

#### Brief introduction

Shanghai Jiadi Machinery Co., Ltd. is the shareholding system with high technology and with 20 years experience of food machinery industry. Shanghai Jiadi specialize in doing turn-key project manufacturing and fruit and vegetable juice machinery, beverage machinery, fruit and vegetable concentrated juice, fruit paste, tea drink, fruit powder (tomato powder, banana powder, mango powder, melon powder), milk powder, powder of medicine industry, preserved and pickled vegetables and dairy equipments. The company can also provide high quality and high level food industry equipments.



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30年中,我们不断创新,不断的尝试,不遗余力生产符合您需要的完美产品,您满意的同时,我们才满意。工程交付仅仅是我们服务的开始,全方位对客户操作员进行产品培训和解决生产过程中遇到的一切技术问题,是我们服务的核心。我们吸收并掌握世界食品加工设备加工工艺方面的先进经验,力争做“中国的果蔬汁、果蔬浆(膏)、果蔬粉、酱腌菜设备制造专家”而不懈努力。现在我们产品遍布中国各地以及南美、非洲等国家,为当地和世界提供优质的食品产品不停运转。

In the past 30 years, we have not stopped our innovation and try, we always do our best to manufacture the perfect products to satisfy with your request. Delivery of the project is just the beginning of our service. The core of our service is training operators and solving every problems during production.

we are absorbing and holding advanced experience on world food processing equipment and we try our best to be "Expert of Equipment Manufacturer for Vegetable and Fruit Juices, Paste, Powder, Preserved and Pickled Vegetables". Now, our products have spreaded to many cities of China and South American and Africa countries to provide quality food machinery for local and world.





**INTEGRATED THE WORLDWIDE ADVANCED TECHNOLOGY,  
DEVELOPING THE NATIONAL FOOD INDUSTRY!**

融合世界先进科技，  
振兴民族食品工业！



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## FULL AUTOMATIC VACUUM PACKAGING MACHINE

### 全自动真空包装机



## USE AND TECHNICAL PARAMETERS

### 用途及技术参数

#### 用途

真空包装是一种出色的包装方式，它采用将食品包装袋内空气抽离的方法，使食物保存在一种没有氧气的环境中，从而防止食品发生氧化而产生变质，同时也使需氧型微生物失去生存条件来达到长期保存的目的。这样就保证了食品的“原汁原味”，又保证在食用时，不会对人体产生危害。是一种十分理想的包装手段。

#### 功能

我公司生产的新型的自动真空包装机是一种完全自动化的包装机，它从打印、制袋、计量灌装、灌装、真空、封口等工序完全实现了自动化，从很大程度上节省了劳动力的使用，在包装技术上实现了一次质的飞跃。

#### 性能特点

全自动真空包装机可包装碎菜、颗粒、粉剂、粘固体、水剂等包装物。根据不同的物料采用不同的下料方式。常用下料方式有量杯下料、螺秆下料、胶体泵下料、螺秆量杯下料、多头称下料等下料方式。

#### Usage

Vacuum package is an excellent packing type, which partially replaces the previous methods used additives or preservatives in food preservation, and keeps food in a no-oxygen environment by the method of pulling the air out of food bags, thereby preventing occurrence of oxidation and deterioration of food, also the loss of aerobic microbial living conditions to achieve long-term preservation. This method not only ensures the food "authentic", but also not causes harm to humans during use. It is a very ideal packing type.

#### Function

The new type of automatic vacuum packaging machine manufactured by our company is a fully automatic packing machine, from including printing, bag-making, measurement filling, bag-conveying, vacuum, sealing and so on, all the processing steps are completely automatically. It saves labours on a large extent and achieves a qualitative leap in packaging technology.

#### Performance characters

This automatic vacuum packaging machine can pack mustard, granule, powder, tick materials, liquid materials and so on. Different feeding methods will be Chosen according to different materials. Common feeding methods are: measuring cup feeding, screw feeding, colloid pump feeding, screw measuring cup feeding, multi-head scale feeding etc.

#### 技术参数

全自动真空包装机的技术参数如下:

#### Technical Parameters

The following is the technical parameter of full automatic vacuum packaging machine.

包装袋最大尺寸	150毫米(宽) × 160毫米(高)	maximum dimension of bag	150mm(W) × 160mm(H)
包装袋最小尺寸	80毫米(宽) × 100毫米(高)	minimum dimension of bag	80mm(W) × 100mm(H)
最大充填量	200毫升	maximum filling volume	200ml
最大包装速度	3000袋/小时	maximum packing speed	3000b/h
整机功率	13.2千瓦	total power	13.2kw
耗气量	0.5立方米/分钟	Air consumption	0.5m <sup>3</sup> /min
净重	1250公斤	Net weight	1250kg
外形尺寸	4950毫米(长) × 1300毫米(宽) × 2800毫米(高)	Dimension	4950mm(L) × 1300mm(W) × 2800mm(H)
充填量差偏差	≤ ± 2g(100g时)	Filling weighing deviation	≤ ± 2g (at 100g)

## AUTOMATIC BAG-MAKING DEVICE AND AUTOMATIC PRINTING DEVICE

自动制袋装置、自动打印装置

### 自动制袋装置

用途：全自动真空包装机具有自动制袋功能，能把卷膜自动制成规定规格包装袋，减少生产工艺程序，替代食品包装预制的做法，从而节约的生产成本。

功能：全自动真空包装机的制袋尺寸是可调节的，可以在设备设定范围内任意调节袋子的大小，以满足不同的包装要求。

性能特点：适用于各种热封性包装材料（聚乙烯膜，多层复合膜等），进行自动制袋、充填和封口的作业条件。

### Automatic Bag-making Device

Usage: Full-automatic vacuum packaging machine can make packaging bags according to specified-size from roll film automatically, which can reduce production process, alternative the method of pre-making food packaging bags, thereby reduce save production costs.

Function: The bag size of full-automatic vacuum packaging machine is adjustable. It is able to adjust the bag sizes within the setting range to meet the different packaging needs.

Performance characters: It is suitable for working conditions of automatic bag making, filling and sealing of a variety of heat sealing packaging materials (polyethylene film, multilayer film and so on).



### 自动打印装置

用途：自动完成生产日期、生产批号及其他标识的打印。

功能：可以根据客户的不同要求，配戴不同类型打印机，如激光打印机、喷墨打印机、热打码机、冷压码等。打印动作通过PLC设定与制袋形成联动，打印位置可以调节，字迹清晰，耐高温，不褪色。

性能特点：能够对各种不同的包装膜材质进行打印操作，广泛应用于食品、化工、医药等多种行业。

### Automatic Printing Device

Usage: It can print production date, batch number and other marks.

Function: The printer type can be chosen according to customer's requirements. For example, laser printer, ink jet printer, hot printer, cool printer and so on. The actions of printer can form a linkage with bag-making through the PLC settings, the printing position can be adjusted. Writing is clear, can bear high temperature and does not fade.

Performance characters: It can print on many different package films, widely used for foodstuff, chemical, pharmaceuticals and other industries.



## AUTOMATIC FILLING DEVICE AND ELECTRICAL CONTROL UNIT

自动填充装置、电气控制单元

### 自动填充装置

用途：使物料顺利灌装入包装袋内，防止物料外溢。

功能：配有补液管，可以为特殊产品进行液体补充。锥形设计，保证物料可以完全落入包装袋内，避免灌装误差。配有袋体整形机构，保持包装袋袋口形状，以确保封口平整美观。

性能特点：全自动连续化运转，适用于多种袋型，多和性质物料灌装。

### Automatic Filling Device

Usage: Let material fill into the packaging bags smoothly to prevent material overflow.

Function: With liquid adding pipe, can add liquid to special products. Cone design can make sure that materials fill into packaging bags completely to avoid filling error. With bag body shaping device to keep the bag mouth shape is neat, the sealing is beautiful.

Performance characters: automatic and continuous running, suitable for filling different materials into kinds of bags.



### 电气控制单元

用途：显示机械各部分工作情况，生产记录，实施生产程序控制等操作。

性能特点：友好的人机互动界面，实时记录机械的工作情况，高度可调节触摸屏方便操作，可以随时了解全自动真空包装机各环节的运转情况和控制。

### Electrical Control Unit

Usage: Show working situations of every part of machines, production records, control production process.

Performance characters: friendly man-machine interface, record machine working situations in time, touching screen angle can be adjusted, easy operation. It is able to know the running states and controls of every parts of full-automatic vacuum packaging machine at any time.





## AUTOMATIC VACUUM SEALING DEVICE

### 自动真空封口装置



#### 自动真空封口装置

用途：把包装袋内部空间的气体抽出形成真空，在真空条件下封住袋口。

功能：全自动包装机有两个真空箱，交替使用，在一个真空箱完成抽真空和封口的同时，另一个真空箱完成包装往箱体里的输送，保证抽真空的连续进行。

性能特点：耐受水蒸气能力强，适用于规模化生产的真空包装，如块状、颗粒、粉剂、粘稠体、水剂等物料真空包装。

#### 技术参数

包装袋最大尺寸	100毫米(宽)×100毫米(高)	Technical Parameters	maximum dimension of bag	100mm(W)×100mm(H)
包装袋最小尺寸	80毫米(宽)×100毫米(高)		minimum dimension of bag	80mm(W)×100mm(H)
最大充填量	200毫升		maximum filling volume	200ml
最大包装速度	3000袋/小时		maximum packing speed	3000b/h
整机功率	9.2千瓦		total power	9.2kw
耗气量	0.3立方米/分钟		Air consumption	0.3m <sup>3</sup> /min
净重	300公斤		Net weight	300kg
外形尺寸	4960毫米(长)×1300毫米(宽)×2800毫米(高)		Dimension	4950mm(L)×1300mm(W)×2800mm(H)
充填重量偏差	≤±2%(100g时)		Filling weighing deviation	≤±2% (at 100g)



#### Automatic Vacuum Sealing Device

Usage: Extract the air inner from packaging bags, and seal it at the vacuum condition.

Function: Full-automatic vacuum packaging machine has two vacuum boxes which work alternately, one vacuum box completes the vacuum and sealing, at the same time, the other vacuum box conveys the packaging boxes into box to assure the vacuum seal can be continuous.

Performance characters: Strong ability to endure steam, suitable for large-scale production of vacuum package, like blocks, granules, powder, viscous and liquid materials.

#### Technical Parameters

maximum dimension of bag	100mm(W)×100mm(H)
minimum dimension of bag	80mm(W)×100mm(H)
maximum filling volume	200ml
maximum packing speed	3000b/h
total power	9.2kw
Air consumption	0.3m <sup>3</sup> /min
Net weight	300kg
Dimension	4950mm(L)×1300mm(W)×2800mm(H)
Filling weighing deviation	≤±2% (at 100g)

## VACUUM PUMP

### 真空泵



#### 真空泵

用途：为真空包装系统提供真空，根据不同要求达到不同的真空度。

主要参数：选配德国Elmo Retsjole品牌旋片式真空泵提供真空动力。极限真空可以达到0.1mbar(绝对值)。

主要技术参数：功率：7.5KW

平均噪音：74dB(A)

最大流量：300m<sup>3</sup>/h

极限真空：0.1mbar

#### Vacuum Pump

Usage: Provide vacuum for vacuum packaging system, reach different vacuum degree according to different requirements.

Main Parameters: Match German Elmo Retsjole oil lubrication rotary vane vacuum pump to provide vacuum power. Ultimate vacuum can reach 0.1 mbar (absolute value).

Main Technical Parameters:

Power: 7.5KW

Average noise: 74dB(A)

Max. Flow: 300 m<sup>3</sup>/h

Ultimate vacuum: 0.1mbar

#### 自动控制系统

功能介绍：采用进口电子元件，对整个包装系统生产运行进行程序设定，实时控制。通过调整程序设置控制搅拌、真空泵、失袋气缸、打码机、填充器、真空系统开关，以及监控设备的产量、运行时间、运行速度。

#### Automatic Control System

Function introduction: imported electronic components to set the production of entire packaging machine system, control in time. Through the adjusting of program settings, control mixing, vacuum pump, folder bag cylinder, printer, filler, vacuum system switch can be controlled production capacity, running time, running speed of monitoring equipment, can be monitored.



## AUTOMATIC MEASUREMENT FILLING SYSTEM

### 自动计量充填系统

#### 自动计量充填系统

用途：自动计量充填系统适用于在颗粒状物料如杂粮、味精、酵母颗粒等；酱腌菜类如榨菜丝、萝卜丝、酸菜等；以及其他各种粒状、条状、丁状物料的小包装精确计量、填充领域。

功能：系统采用容积式计量充填技术，自动充填效率高、计量准确，系统设计结构紧凑，占用空间小，保养维护方便。控制操作简单，方便CIP清洗。各项技术性能指标均符合计量及食品卫生包装技术规范标准。



#### Automatic Measurement Filling System

Usage: Automatic measurement filling system is suitable for granule materials like minor cereals, MSG, yeast particles and so on; Pickles like mustard silk, radish, pickled vegetables etc; and other exact measurement filling of small package of granules, strips, block materials.

Function: The system adopts volume type measurement filling technology, high automatic filling efficiency, accurate measurement, compact structure, small occupied space, easy maintenance. Control is simple, easy to clean. The technical performance indicators are in line with measurement and food sanitation package technology standards.

#### 规格、性能参数

a. 生产能力:	30—55袋/每分钟	a. Production Capacity:	30—55 b/min
b. 计量误差值:	±2g%	b. Measurement Error:	±2g%
c. 物料特性: 物料形状3'3或5'5丝条、丁、堆积比1110千克/每立方		c. Material Properties: material shape: 3'3 or 5'5 silking, dice, accumulation ratio:	1110kg/m <sup>3</sup>
d. 总耗气量:	0.08立方米/每小时	d. Total Gas Consumption:	0.08m <sup>3</sup> /h
e. 装机容量:	2700瓦	e. Total Power:	2700w
f. 设备外形尺寸(长×宽×高):	1100毫米×720毫米×1300毫米	f. Dimension(L×W×H):	1100mm×720mm×1300mm
g. 材质:	上压盘采用四氟乙稀	g. Material:	upper platen is tetrafluoro
h. 设备自重:	4750千克	h. Net Weight:	4750kg

#### Specifications, Performance Parameters

## AUTOMATIC DISTRIBUTING AND FEEDING SYSTEM

### 自动分料给料系统

#### 自动分料给料系统

用途：自动给料系统由单个或多个输送布料输送机组成，将待包装物料送入计量装置。

功能：系统根据实际安装条件不同可以输出不同的变化，带有布料机构，保证物料进入自动计量工艺机构的量保持动态平衡，预防下料过多造成阻塞。系统可以选配CIP清洗系统，充分保证系统清洁。

性能特点：可用于颗粒、块状、粉末产品的输送和分配到各个包装单元。单机采用食品级白色传送胶带，不卡料，方便清洗和保养。

#### Automatic Distributing and Feeding System

Usage: Automatic feeding system consists of single or multiple material distributing conveyors, conveying the materials into measurement device.

Function: The system can make different changes according to the actual installation conditions, the material distributing device can assure the weigh dynamic balance of material into the automatic measurement device, to prevent blockage caused by overload of material. The system can be equipped with CIP cleaning system to keep clean.

Performance characters: It can be used for transmission and distribution to each package unit of grain, block, powder products. The single machine adopts food-grade white conveying tape, no material jamming, easy to clean.





## CIP(CLEAN-IN-PLACE) CLEANING SYSTEM

### CIP清洗系统

#### CIP清洗系统

用途：适用于乳品、饮料、啤酒等食品生产前设备与管道出前、后进行的清洗和消毒，保证加工设备的卫生要求。

功能：本设备利用离心泵输送清洗液在物料管道和设备内部进行循环，达到清洗目的。因此，不需对管道、设备解体，可以提高设备利用率，减轻工人劳动强度。所以，本产品是一种先进的清洗工艺设备。



#### CIP(Clean-in-place) Cleaning System

Usage: It is used to clean dairy, beverage, beer and other food production equipments and pipelines before and after production to make sure that the whole line meet with hygiene requirements strictly.

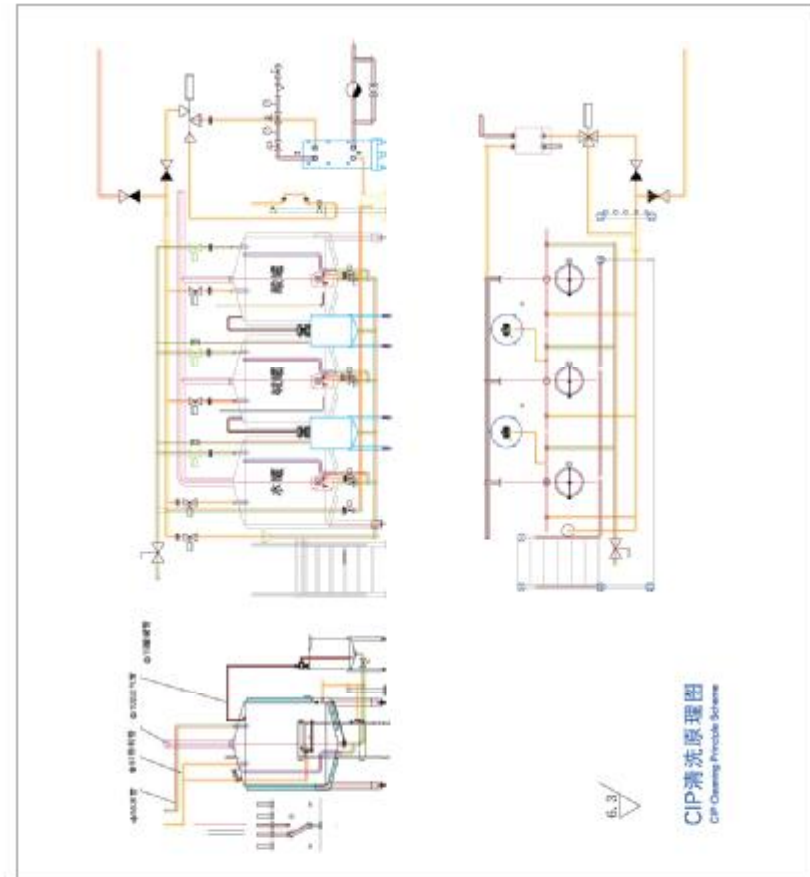
Function: This equipment uses centrifugal pump to convey the cleaning liquid into the material pipelines and equipments to clean them under forced circulation. So, uninstalation is not needed, this method increases the use efficiency and reduces the work intensity of labors. It is an advanced cleaning equipment.

#### 技术参数 Technical Parameters

型号Model	CIP-A	CIP-B	CIP-C
控制方式Control	PLC控制 PLC control	电脑控制 electrical control	
温度控制及加热方式 temperature control and heating methods	自动控制双重加热 Automatic heating control	自动控制双重加热 Automatic heating control	人工控制 manual control
浓度控制及添加方式 means the concentration of control and add	自动控制自动添加 Automatic	自动控制自动添加 Automatic	人工控制 manual control
清洗程序 cleaning procedures	人工控制 manual control	人工控制 manual control	人工控制 manual control
结构形式 (M) structure(M)	分体式 Split-type	分体式 Split-type	一体式 one-body
加热说明 specifications	0.5-6温度、浓度 自动高精度控制 0.5to6,temperature, concentration auto	0.5-6温度、浓度 自动高精度控制 0.5to6,temperature, concentration auto	0.5-2温度 自动控制 temperature of 0.5-2 automatic control
加热说明 specifications	清洗时间等触控屏 PLC自动控制 cleaning time PLC control	清洗时间人工控制 cleaning time manual control	浓度、清洗 时间 人工控制 concentration, cleaning time manual control

## CIP CLEANING PRINCIPLE SCHEME

### CIP清洗原理图



## MATERIAL DISTRIBUTING DEVICE AND SPRAY CLEANING DEVICE

布料装置、喷淋清洗装置

### 布料机构

作用：将输送带上的物料控制均匀平整，使输送带物料量保持稳定。  
性能特点：根据不同物料性质，选用不同形状和特性的布料耙。双料耙设置，保证物料的均匀。配备有喷淋清洗装置，清洗料耙。

### Material Distributing Device

Usage: Rake the materials on the conveyor belt to keep the steady of material amount.

Performance characters: Choose different distributing rake on shapes and characters according to different materials. Double rakes to ensure the uniformity of the material. Equipped with spray cleaning device to clean the rakes.



### 喷淋清洗装置

作用：对整个输送机与料耙进行清洗操作。  
性能特点：可与CIP系统连接，利用高压水冲洗和稀碱液对整个输送机进行清洗操作。配有防飞溅保护装置，确保清洗效果的同时有效防护，保证工作环境的卫生和安全。

### Spray Cleaning Device

Usage: Clean the whole conveyor and rakes.  
Performance characters: It can be connected with CIP system, using high-pressure water and hot alkali to wash the entire conveying machine. It is equipped with anti-splash guard to ensure effective protection while cleaning and ensure the health and safety of working environment.



## FULL AUTOMATIC VACUUM PACKAGING MACHINE

全自动真空包装机

