AUTOMATIC PACKAGING MACHINE

Brochure | Solutions

厚德至善 格物希望

DGX Machinery Co.

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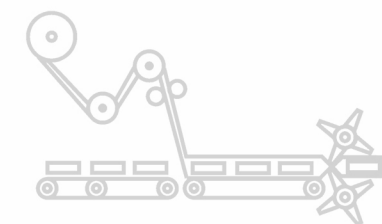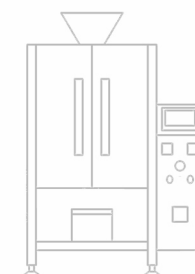Tel: +86-577-8696 1211
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DGX

关于我们
About DGX Machinery

温州德格希机械有限公司是一家稳定且稳步发展的包装机械制造商，是全球众多公司的专业合作伙伴。我们提供个性化、高效和可靠的包装解决方案，来满足市场当前和未来的需求。

凭借20多年的经验，我们服务过众多行业，我们的立式包装机、小袋包装机、预制袋给袋包装机可以满足不同产品和多样式形状的包装需求。

我们的经验和质量控制流程使我们能够创建实现高投资回报率的解决方案，帮助您节省时间和精力来改善您的业务。我们始终关注客户，我们的目标是同他们建立基于信任的长期合作伙伴关系。

在我们的工作中，我们总是力求完美。我们全身心地投入到每一项工作中，我们永远不惧怕眼前的挑战，我们有一种在各个方面都不断努力改进的态度。

DGX is a stable and steadily growing packaging machinery manufacturer, which is a professional partner for many companies throughout the world. We deliver individual, efficient, and reliable packaging solutions that answer current and future requests from the market.

With more than 20 years of experience, we have served many industries, Our VFFS machines, sachet packaging machines, and prefab bag feeding packaging machines can meet the packaging needs of different products and multi-style shapes.

Our experience and quality control process allows us to create solutions that allow for high ROI, helping you save time and effort in improving your business. Our focus is always on our customers, with whom we aim to build long-term partnerships based on trust.

In our work, we always try to be perfect. We fully devote ourselves to each and every task. We never stop tackling the challenges in front of us. We have an attitude of constantly trying to improve in all aspects. This is how we have made it to where we are today.
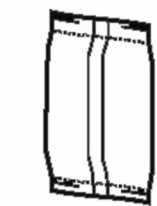
DMV立式包装机
VFFS Vertical Form Fill & Seal

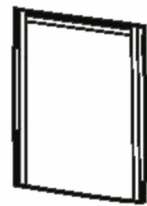全自动智能组合秤立式包装机
Fully Automatic VFFS with Combination Scale Weigher

主要性能与结构特点
Performance and feature

1、整机采用进口PLC及伺服系统，可完成制袋、成型、落料、计数、标识打印、自动排气、封切、输送等功能。

2、整机结构紧凑，自动化程度高、噪音低、送膜平稳、准确，定位精度高。

3、采用人机界面智能化操作，操作简单，参数设定调整方便，具有储存数据的功能，更换包装产品规格易操作。

4、可实现对液体、膏体、酱体、颗粒状、粉末状、片状、条状、不规则形状等多种形态物料的自动化包装。

5、用户的技术要求选择多样化，主要包括全自动纠偏系统、真空眼附拉膜系统、放膜伺服系统、拉膜伺服系统、横封伺服系统、故障自动反馈跟踪识别系统、安全防护系统等。

6、功能性配置选择多样化，充分满足不同用户的包装差异化需求，主要包括多连包功能、多包半打孔装置、单包打孔装置、插角机构、烫边插角机构、排气装置、横封夹制预夹朕置、充填惰性气体装置、自动投料（投说明书、投干燥剂等）装置、异形制袋器、易撕口切割功能、可调式量杯计量装置等。

7、包装袋样式选择多样化，选择不同的核心技术和配置，可满足枕型袋、插角直立袋、插角烫边直立袋、三边封袋、三角形包装袋、烫边背封袋、M袋等袋形的包装。

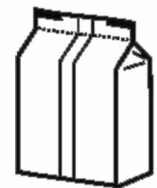8、可与电脑多头组合秤、线性斗秤、螺杆秤、量杯、计量泵等配套产品配合，实现精确计量。

9、整机设计符合GMP标准。

1. The whole machine adopts the famous brand PLC and servo system, which can complete the functions of bag making, forming, filling, counting, printing, automatic exhaust, sealing and cutting, and conveying.

2. The whole machine has a compact structure, high degree of automation, low noise, stable and accurate film feeding, and high positioning accuracy.

3. It adopts the intelligent operation of an HMI, which is easy to operate, easy to set and adjust parameters, and has the function of storing data, so it is easy to operate when changing the specifications of packaging products.

4. It can complete the automatic packaging of various forms of materials such as liquid, paste, sauce, granule, powder, flake, strip, and irregular shapes.

5. The technical requirements of users are diversified, mainly including an automatic deviation correction system, vacuum eye-attached film pulling system, film unwinding servo system, film pulling servo system, horizontal sealing servo system, automatic fault feedback tracking and identification system, safety protection system, etc.

6. The choice of functional configuration is diversified to fully meet the differentiated packaging needs of different users, mainly including multi-packet function, multi-pack half punching device, single-pack punching device, gusset mechanism, edge ironing gusset mechanism, row Gas device, horizontal sealing and clamping pre-clamping device, filling inert gas device, automatic feeding (instruction, desiccant, etc.) device, special-shaped bag maker, easy-tear cutting function, adjustable measuring cup measuring device, etc.

7. The choice of packaging bag styles is diversified, and different core technologies and configurations can be selected to meet the requirements of pillow bags, gusseted stand-up bags, gusseted stand-up bags with hot edges, three-side sealed bags, triangular bags, hot-sided back-sealed bags, Bag-shaped packaging such as M bags.

8. It can be combined with computer multi-head combination scales, linear bucket scales, screw scales, measuring cups, metering pumps, and other supporting products to achieve accurate measurement.

9. The whole machine design conforms to GMP standard.

DMV立式包装机
VFFS Vertical Form Fill & Seal

Pillow Bag

3-side Bag

Corner-creased Bag

Gusseted Bag

立式粉末包装机
DMVP - Powder VFFS

立式(膏)液体包装机
DMVL - Liquid VFFS

所有立式包装机均可按需定制。
All of DGX VFFSare able to be customized properly as requests.

型号 Model	DMV420	DMV520	DMV720
最大膜宽 Film width(Max.)	420mm	520mm	720mm
制袋类型 Bag style	Pillow Bag, 3-side Bag, Corner-creased Bag, Gusseted Bag		
制袋袋宽 Bag width	60-200mm	60-250mm	70-350mm
制袋长度 Bag length	60-300mm	60-350mm	60-450mm
包装物料 Product	Granules, Powders, Liquids, Pastes		
计量系统 Dosing system	Auger Filler, Pump, Piston Filler, Volumetric Cup, Multi-Head Scale, Linear Scale		
包装速度 Capacity	1500-3600 bags/h		
工作电压 Voltage	220V(1phase)/380V(3phase) 50/60Hz		
供气气压 Air pressure	0.6-0.8MPa		
消耗气量 Air consumption	0.3-0.4m³/min		
设备功率 Power	3 KW	4 KW	5 KW
外形尺寸 LxWxH(mm)	1250x1100x1650	1600x1200x1850	1700x1500x2200

立式颗粒包装机
DMVG - Granule VFFS

更多机器型号与技术参数请联系销售工程师。For more machine models and technical parameters, please contact the sales .

DMV240P立式粉末包装机
Vertical Powder Packaging Machine

技术参数 Technical parameter

型号 Model	DMV240P
最大膜宽 Film width	240mm
制袋宽度 Bag width	35-120mm
制袋长度 Bag length	40-190mm
制袋类型 Bag style	背封(中封)/三边封(侧封)/四边封/异型袋 Back sealing/ 3-side sealing/ 4-side sealing/ Special shaped
封口方式 Sealing type	锯齿状/连包/平切/圆角 Jagged/ Concatenated/ Flat-Cut/ Round conner
包装容积 Packaging volume	5-100ml
包装精度 Packaging accuracy	±1.5%
包装速度 Packaging speed	10-60 bags/min
工作电压 Voltage	AC220V(1phase) 50/60Hz
设备功率 Power	1.5KW
供气气压 Air pressure	0.6MPa
耗气量 Air consumption	0.2m³/min
包装尺寸 Size	750x1080x1820
包装毛重 Weight	270kg

性能特点 Performance & characteristics

△ PLC+触摸屏控制，极简操作流程，操作简单。

△ 伺服电机驱动螺杆下料，下料精准且不伤害物料。

△ 多种配置可选，满足不同的包装需求。

△ PLC+touch screen control, minimal operation process, easy to operate.
△ Servo motor drives screw moving, accurate filling, and no harm to materials.
△ A variety of optional devices are available to meet different packaging requirements.

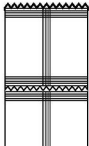### 袋型与封口 Bag style & Sealing type

锯齿状背封
Jagged back sealing

平切三边封
Flat-cut 3-side sealing

锯齿状四边封
Jagged 4-side sealing

背封异型袋
Special shaped back sealing

连袋包装
Concatenated

DMV240L立式液(膏)体包装机
Vertical Liquid/Paste Packaging Machine

技术参数 Technical parameter

型号 Model	DMV240L
最大膜宽 Film width	240mm
制袋宽度 Bag width	35-120mm
制袋长度 Bag length	40-190mm
制袋类型 Bag style	背封(中封)/三边封(侧封)/四边封/异型袋 Back sealing/ 3-side sealing/ 4-side sealing/ Special shaped
封口方式 Sealing type	锯齿状/连包/平切/圆角 Jagged/ Concatenated/ Flat-Cut/ Round conner
包装容积 Packaging volume	20-100ml
包装精度 Packaging accuracy	±1.5%
包装速度 Packaging speed	10-60 bags/min
工作电压 Voltage	AC220V(1phase) 50/60Hz
设备功率 Power	1.5KW
供气气压 Air pressure	0.6MPa
耗气量 Air consumption	0.3m³/min
包装尺寸 Size	750x1500x1820
包装毛重 Weight	230kg

性能特点 Performance & characteristics

△ PLC+触摸屏控制，极简操作流程，操作简单。

△ 采用往复式容积泵，自适应液体与膏体。

△ 多种配置可选，满足不同的包装需求。

△ PLC+touch screen control, minimal operation process, easy to operate.
△ Adopt reciprocating positive displacement pump, adaptive liquid and paste.
△ A variety of optional devices are available to meet different packaging requirements.

袋型与封口 Bag style & Sealing type
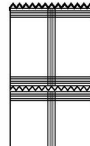
锯齿状背封
Jagged back sealing

平切三边封
Flat-cut 3-side sealing

锯齿状四边封
Jagged 4-side sealing

背封异型袋
Special shaped back sealing

连袋包装
Concatenated

DMV240G立式颗粒包装机
Vertical Granule Packaging Machine

技术参数 Technical parameter

型号 Model	DMV240G
最大膜宽 Film width	240mm
制袋宽度 Bag width	35-120mm
制袋长度 Bag length	40-190mm
制袋类型 Bag style	背封(中封)/三边封(侧封)/四边封/异型袋 Back sealing/ 3-side sealing/ 4-side sealing/ Special shaped
封口方式 Sealing type	锯齿状/连包/平切/圆角 Jagged/ Concatenated/ Flat-Cut/ Round conner
包装容积 Packaging volume	≤250cm³
包装精度 Packaging accuracy	±2%
包装速度 Packaging speed	10-60 bags/min
工作电压 Voltage	AC220V(1phase) 50/60Hz
设备功率 Power	1.5KW
供气气压 Air pressure	0.6MPa
耗气量 Air consumption	0.2m³/min
包装尺寸 Size	750x1080x1820
包装毛重 Weight	230kg

性能特点 Performance & characteristics

△ PLC+触摸屏控制，极简操作流程，操作简单。

△ 可调式容积量杯下料，下料精准且不伤害物料。

△ 多种配置可选，满足不同的包装需求。

△ PLC+touch screen control, minimal operation process, easy to operate.

△ Adjustable volumetric cup, accurate filling, and no harm to materials.

△ A variety of optional devices are available to meet different packaging requirements.

袋型与封口 Bag style & Sealing type
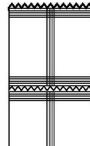
锯齿状背封 Jagged back sealing	平切三边封 Flat-cut 3-side sealing	锯齿状四边封 Jagged 4-side sealing	背封异型袋 Special shaped back sealing	连袋包装 Concatenated

DMVB240立式链斗包装机
Vertical Chain Bucket Packaging Machine

技术参数 Technical parameter

型号 Model	DMVB240
最大膜宽 Film width	240mm
制袋宽度 Bag width	35-120mm
制袋长度 Bag length	40-190mm
制袋类型 Bag style	背封(中封)/三边封(侧封)/四边封 Back sealing/ 3-side sealing/ 4-side sealing
封口方式 Sealing type	锯齿状/连包/平切/圆角 Jagged/ Concatenated/ Flat-Cut/ Round conner
包装容积 Packaging volume	5-200ml
包装精度 Packaging accuracy	±1.5%
包装速度 Packaging speed	10-60 bags/min
工作电压 Voltage	AC220V(1phase) 50/60Hz
设备功率 Power	2.2KW
供气气压 Air pressure	0.6MPa
耗气量 Air consumption	0.2m³/min
包装尺寸 Size	750x1500x1820
包装毛重 Weight	320kg

性能特点 Performance & characteristics

△ PLC+触摸屏控制，极简操作流程，操作简单。

△ 可自动计量或人工投料，实现多重物料混合包装。

△ 多种配置可选，满足不同的包装需求。

△ PLC+touch screen control, minimal operation process, easy to operate.

△ Automatic metering or manual feeding, to realize mixed packaging of multiple materials.

△ A variety of optional devices are available to meet different packaging requirements.
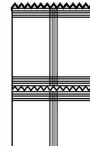
袋型与封口 Bag style & Sealing type

锯齿状背封 Jagged back sealing	平切三边封 Flat-cut 3-side sealing	锯齿状四边封 Jagged 4-side sealing	连袋包装 Concatenated

DMA液体包装机
Automatic Liquid Packaging Machine

主要性能与结构特点
Performance and feature

本机广泛应用于水、牛奶、豆奶、饮料、酱油、米醋、黄酒等各种液体的单聚乙烯薄膜包装，能一次性自动完成紫外线灭菌、料袋成型、日期打印、定量灌装、封合切断等。包装后产品美观牢靠。整机采用不锈钢结构，达到国际卫生标准。机器性能平稳可靠，操作简便，故障率低。

DMA liquid packaging machine is widely used in single polyethylene film packaging of water, milk, soy milk, beverages, soy sauce, vinegar, wine, and other liquids. It can automatically complete actions of ultraviolet sterilization, bag forming, date printing, quantitative filling, sealing, and cutting at one time. The packaging bag is beautiful. The whole machine adopts stainless steel and meets hygiene standards. The performance of the machine is stable and reliable, the operation is simple, and the failure rate is low.

技术参数
Technical parameter

型号 Model	DMA500
卷膜宽度 Film Width	320mm / 240mm
包装剂量 Filling range	100-500ml
包装速度 Capacity	up to 2000 bags/h
包装袋宽 Width of bag	110/150mm
包装袋长 Length of bag	30-145mm
工作电压 Voltage	220V 50Hz
设备功率 Power	1.5KW
包装尺寸 Size (LxWxH)	850x760x1830mm
机器毛重 Weight	320kg

注：
1. 防护罩和色带打码机是可选配置。
2. 电压可按需定制。

Note:
1. The protective cover and ribbon printer are optional.
2. Voltage can be customized on demand.

DMAS步进电机拉膜液包机
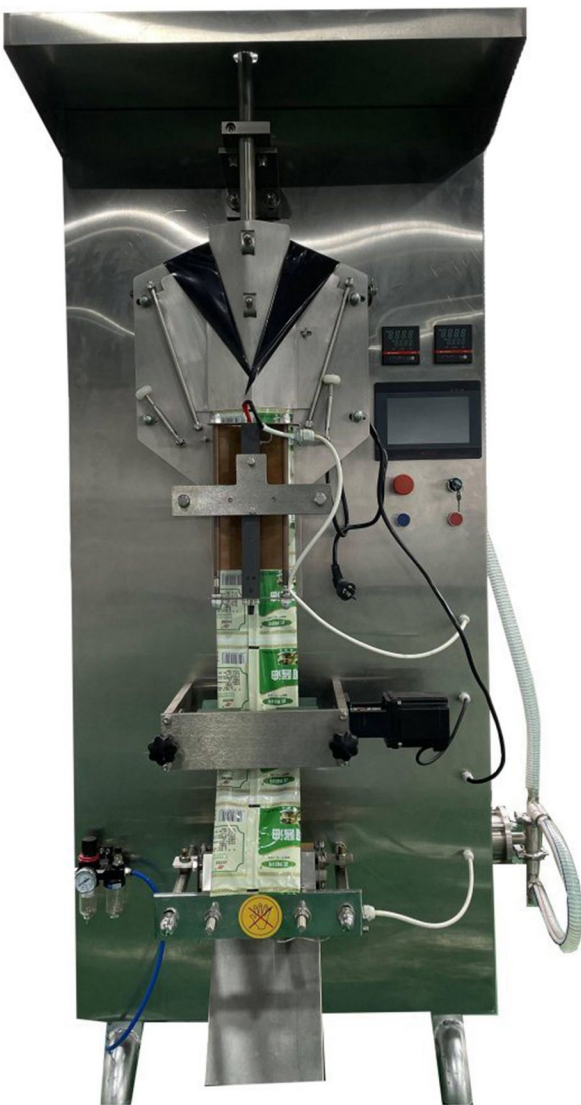## Automatic Liquid Packaging Machine with Step Motor

主要性能与结构特点
Performance and feature

△ PLC＋触摸屏控制，可视化操作界面，智能设定袋长。
△ 光标识别系统，误差警报。
△ 步进电机拉膜，精准走袋。
△ 独立温度控制，封切美观。

△ PLC＋touch screen control, visual operation interface, intelligent setting of bag length.
△ Cursor recognition system, error alarm.
△ Stepper motor pulls the film, precise bag feeding.
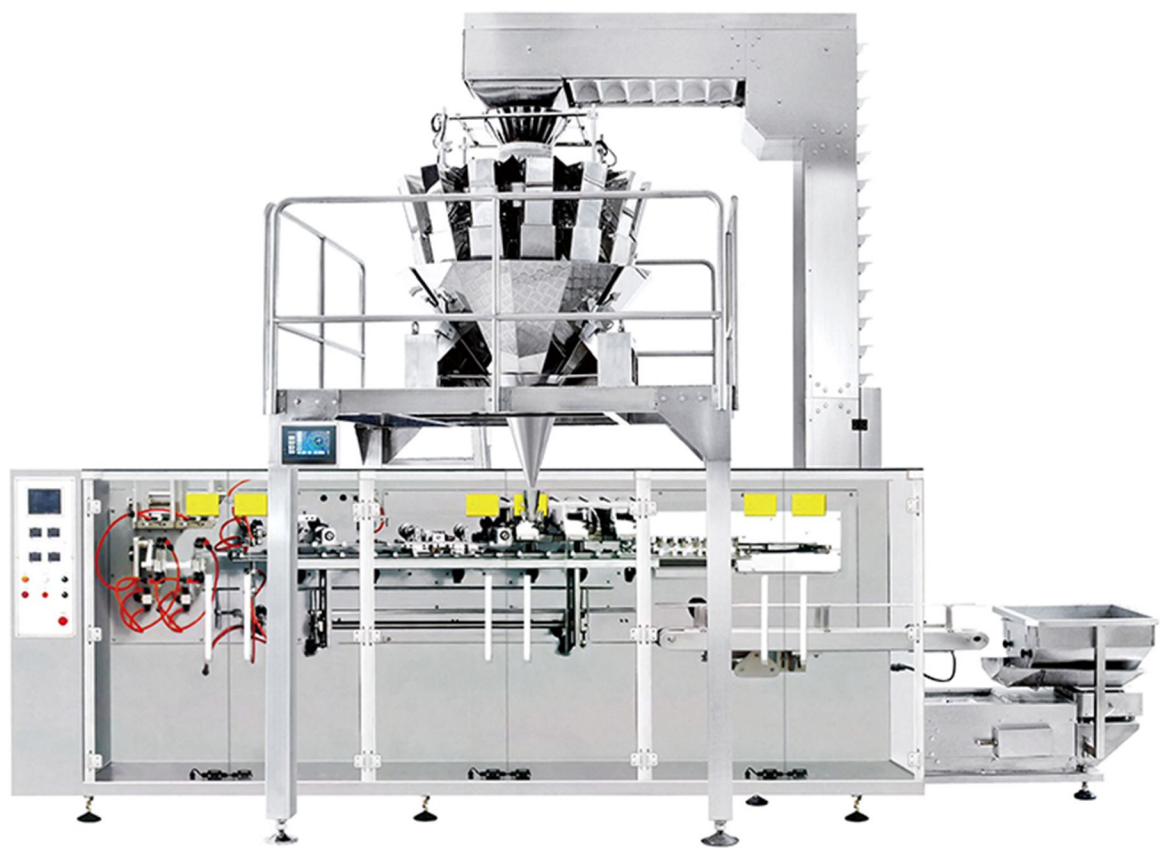△ Independent temperature control, beautiful sealing and cutting.

技术参数
Technical parameter

型号 Model	DMA500S
卷膜宽度 Film Width	320mm / 240mm
包装剂量 Filling range	100-500ml
包装速度 Capacity	up to 2000 bags/h
包装袋宽 Width of bag	110/150mm
包装袋长 Length of bag	30-145mm
工作电压 Voltage	220V 50/60Hz
设备功率 Power	1KW
供气气压 Air pressure	0.6MPa
消耗气量 Air consumption	0.1-0.2m³/min
包装尺寸 Size (LxWxH)	890x860x2050mm
机器毛重 Weight	300kg

DMH 水平给袋包装机

Horizontal Pre-made Pouch Fill & Seal Machine

1.预制袋叠放 2.翻转取袋机构 3.开拉链机构（可选） 4.开袋机构 5.吹气机构 6.一次灌装 7.二次灌装（可选）
8.整料拉平 9.热封 10.整形 11.成品 12.输出

1) Prefabricated bag stacking, 2) Flip bag mechanism, 3) Zipper opening mechanism (optional)
4) Bag opening mechanism, 5) Air blowing mechanism , 6)Primary filling, 7) Secondary filling (optional)
8) Shaking and leveling, 9) Heat sealing, 10) Shaping, 11) Finished product, 12) Output

适用袋型
Applicable bag type

Stand-up pouch   Double bag   Perforated zipper bag

3(4)-side flat bag   Special-shaped bag

主要性能与结构特点
Performance and feature

水平给袋式包装机，专为小袋、中袋包装设计，拥有双工位下料及双联袋功能。主要适用于食品、日化、农化等行业，可包装物料有粉剂、颗粒、液剂等各种物料，适用站立袋、拉链袋、平袋、挂孔袋、异形袋等各类预制袋包装。本机封口和充填是相对独立的系统，两个系统通过机械联动与PLC进行协调联动。选用不同的下料装置，可以包装不同的产品。

Horizontal Pre-made Pouch Fill & Seal Machine is specially designed for small bag and middle bag packaging, it has the function of double-station filling and bagging. Mainly used in food, daily chemical, agrochemical, and other industries, the packaging materials include powder, granule, liquid, and other materials, suitable for standing bags, zipper bags, flat bags, hanging hole bags, special-shaped bags, and other prefabricated bags. The sealing and filling of this machine are relatively independent systems, and the two systems are coordinated and linked with mechanical linkage and PLC.. Different filling devices can be used to package different products.

技术参数
Technical parameter

型号Model	DMH210	DMH260
袋型尺寸 Bag size	W: 120-210mm / L: 150-320mm	W: 140-260mm / L: 160-380mm
包装容量 Capacity	1000ml	1200ml
包装速度 Speed	20-50ppm	20-50ppm
工作电压 Voltage	AC380V (3phase)	
设备功率 Power	3KW	3.5KW
包装物料 Product	液体、膏体、酱体、颗粒状、粉末状、片状、条状、不规则形状等 liquid, paste, sauce, granule, powder, flake, strip, and irregular shapes	
供气气压 Air pressure	1.0MPa	
耗气量 Air consumption	0.7m³/min	0.8m³/min
设备尺寸 Size	2200x1380x1350	2500x1450x1350
重量 Weight	1200kg	1700kg

主要性能与结构特点
Performance and feature

△ 整机为6/8工位结构，运行由PLC与超大触摸屏集中控制，人机交互友好，操作简单方便。

△ 动作执行采用全伺服控制系统，执行准确快速可靠。

△ 故障自动识别跟踪报警系统，运行状况实时显示。

△ 空袋跟踪检测，实现不开袋不落料不封口。

△ 采用无油真空泵，避免对物料和生产环境的污染。

△ 几乎可适用于所有预制袋类型，自动完成上袋、打印、开袋、进料、封口、成品输出的功能。

△ 可与组合秤、线性秤、螺杆秤、灌装机、提升机等辅机进行联机运行。

△ The whole machine is a 6/8 station structure. The operation is centrally controlled by PLC and a large touch screen. The HMI is friendly and the operation is simple and convenient.

△ Action execution adopts a full servo control system, which is accurate, fast, and reliable.

△ Fault automatic identification tracking alarm system, real-time display of operating conditions.

△ Empty bag tracking detection to achieve no bag opening, no blanking, and no sealing.

△ The oil-free vacuum pump is used to avoid pollution to materials and the production environment.

△ It can be applied to almost all types of prefabricated pouches, and can automatically complete the functions of pouch-pickng, printing, opening, feeding, sealing, and finished product output.

△ It can be operated online with auxiliary machines such as combination weigher, linear scale, screw scale, filling machine, elevators, etc.

作业工位：

1. 自动上袋；

2. 打码，开拉链（可选）；

3. 开袋；

4. 下料1；

5. 下料-2（选配）；

6. 排气、热封-1（选配）；

7. 热封2；

8. 冷封，成品输出。

选配：充氮，真空，混合下料，排气，拉链闭合。

Standard Station:

1. Pouch-picking Station

2. Code printing, and Zip-Open (Optional) Station

3. Pouch-opening Station

4. Material-filling Station-1

5. Material-filling Station-2 (Optional)

6. Air-exhausting and Heat sealing-1 Station (Optional)

7. Heat Sealing-2 Station

8. Cold Sealing and Outputting Station

Option: Nitrogen Flush, Vacuum, Multi-Filling, Air exhausting,Zip-close

技术参数
Technical parameter

型号Model	DMR6210	DMR8210	DMR6350
作业工位 Station	6	8	6
袋型尺寸 Bag size	W: 80-210mm / L: 100-300mm		W: 150-350mm / L: 180-450mm
包装容量 Capacity	50-2500g(Depends on material)		000-5000g(Depends on materia
包装速度 Speed	25-60ppm		10-40ppm
工作电压 Voltage	AC380V (3phase) or per customer specification		
设备功率 Power	3.5KW		4.5KW
耗气量 Air consumption	0.5m³/min	0.5m³/min	0.5m³/min
设备尺寸 Size	1950x1850x1550		2550x2050x1550
重量 Weight	1200kg	1300kg	1800kg

更多机器型号与技术参数请联系销售工程师。For more machine models and technical parameters, please contact the sales .

DMR 旋转给袋包装机

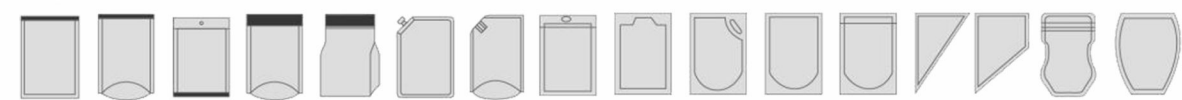## Rotary Pre-made Pouch Fill & Seal Machine

全自动智能组合秤旋转给袋包装机

Fully Automatic RPFS with Combination Scale Weigher

适用袋型
Applicable bag type

全自动立式包装线
Fully automatic vertical packaging line

智能组合秤
Combination Scale

VFFS Machine Adapts to

1. Snacks
2. Pet food
3. Spice, sauce
4. Potato chips, fruit chips
5. Milk powder
6. Seeds
7. Animal feedstuff
8. Hardware
9. Washing Powder
10. Shampoo, liquid detergent
11. Jam, fruits, water
12. Paint, water-proof paint
13. Chemicals
14. Pharmacy
13. Any material packed into pouch

工作平台
Platform

物料提升机
Conveyor

立式包装机
VFFS

重量选别秤
Check Weigher

金属检测机
Metal Detector

圆盘理料机
Rotary Table

全自动装袋、装箱解决方案
Automatic Bagging and Boxing Solution

1. 本方案主要是针对小包至大包装袋、装箱解决方案。

2. 生产线配置有立式包装机＋小包整理输送线＋Z型斗式提升机＋电脑组合秤＋旋转给袋包装机＋成品出料输送系统，后端可配自动开箱机、装箱机、封箱机、喷码机、捆扎机、码垛机，并可利用先进的自动机械手，使生产流程简单、准确、安全、迅速，满足自动化包装生产要求。

3. 合理的设备配置充分发挥了各个环节的产能，确保生产过程的顺畅运行，减少人工成本，提高生产效率。

1. This solution is mainly for bagging and boxing of small to large bags.

2. The production line is equipped with vertical packaging machine + small package sorting conveyor + Z-type bucket elevator + combination scale + rotary packaging machine + finished product discharge conveying system, the back end can be equipped with automatic unpacking machine and packing machine , carton sealing machine, inkjet printer, strapping machine, palletizer, and advanced automatic manipulators. It makes the production process simple, accurate, safe, and fast, also meets the requirements of automatic packaging production.

3. Reasonable equipment configuration gives full play to the production capacity of each link, ensures the smooth operation of the production process, reduces labor costs, and improves production efficiency.
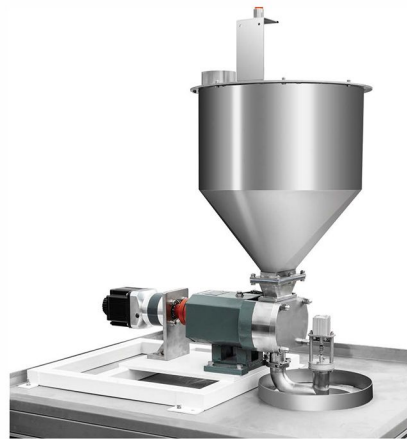
旋转给袋包装机 Rotary Packaging Machine

智能装箱系统 Boxing System

立式包装机 VFFS

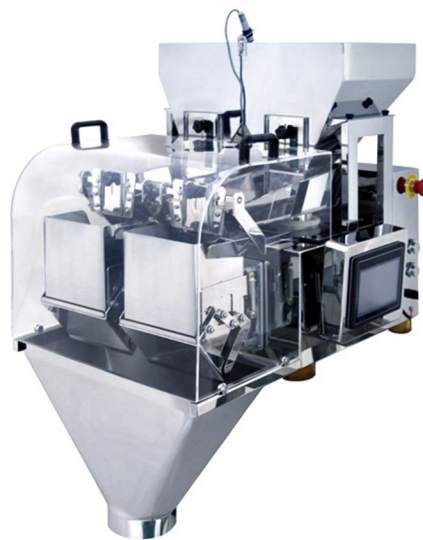# 配套辅机设备
Auxiliary Equipment

螺杆下料机
Auger Filler

膏液下料机
Rotor Pump

量杯下料机
Volumetric Cup

组合秤
Combination Scale Weigher

线性秤
Liner Scale Weigher

S型斜角送料机
S-Shape Incline Conveyor

Z型提升机
Z-Shap Elevator

螺杆提升机
Screw Elevator

重量选别秤
Check Weigher

金属检测机
Metal Detector

旋转理料机
Rotary Accumulation Table

工作平台
Platform