

### 济南卓恒膨化机械有限公司 Jinan Zhuoheng Extrusion Machinery Co., Ltd

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### 关于卓恒 About Zhuoheng



济南卓恒膨化机械有限公司是集科、工、贸为一体的高新技术企业,致力于挤压膨化食品工艺及设备的开发、研制和生产。先后研发了数十种膨化食品机械设备及技术,现已成为国内外重要的专业生产厂家。

济南卓恒膨化机械有限公司座落于美丽的泉城—济南。公司拥有经验丰富的经营管理人员,优秀的工程技术人员及训练有素的技术工人,并经常与世界著名的同行业企业进行技术交流,引进先进的产品技术和生产工艺,形成实力雄厚的技术保障体系。

公司自创业之初就秉承"卓越品质,恒久信誉"的企业宗旨和"共同合作,共同发展"的经营理念,以产品质量为基石,以技术开发为先导,全心全意,专业专注。用精良的技术,真诚的态度和完善的服务为市场提供品质卓越的产品。站在新起点、寻求新突破、实现新跨越,是时代赋予我们光荣而神圣的使命。济南卓恒膨化机械有限公司愿与广大新老客户朋友真诚携手,开拓创新,在互惠共赢的基础上共同建设美好的未来!

济南卓恒膨化机械有限公司主营产品:单螺杆挤出机,双螺杆膨化机,膨化食品机械,各类膨化食品生产线,膨化营养粉,芝麻糊生产线,麦烧、夹心米果食品生产线,面包糠生产设备,变性淀粉生产线、大豆组织蛋白生产线,玉米片、燕麦片生产线,锅巴、沙拉、妙脆角生产线,强化营养大米生产线,通心粉生产设备,宠物咬胶生产线,宠物饲料生产设备,宠物粮加工设备,电、油、气多层烤箱,大型压片机,高温烤炉,其他各种食品行业相关设备。

## ZHUOHENG EXTRUSION MACHINERY























Jinan Zhuoheng Extrusion Machinery Co., Ltd., a shareholders-owned and operated business established more than 10 years ago, is considered as one of Chinese most respected and experienced suppliers of snack food equipment, accessories and services.

Zhuoheng has a comprehensive manufacturing program offering equipment and systems to customers in extruded snack food processing machinery and allied industries. We can supply individual items of equipment or complete factory layouts and lines, which are custom-built to meet the requirements of customers. Our spare part and service division demonstrates our continuous commitment to customers' support and after-sales service. We have successfully completed several large-scale projects from planning to completion and project management. Zhuoheng has a proven record of quality and service.

Each member of Zhuoheng offers special contributions to Zhuoheng's skill base. Skills include design, drafting and good old-fashioned common sense. With in-house design, construction, repair and service, Zhuoheng has developed a "one-stop factory" for the food machinery industry that cannot be matched due to their vertical strength. Zhuoheng's solution-based service structure takes away a lot of your frustration whether you're opening a new snack food service venture or you are a head officer needing urgent solutions.

We insist on improving the standard of products and try our best to serve our clients. Our goal is to become the biggest and best snack food processing machinery manufacturer in China. We hope our products could benefit clients from all over the world.

P-01 P-02

## 荣誉资质·合作共赢 Honor Certificate · Win-win Cooperation



公司自创业之初就秉承"**卓越品质,恒久信誉**"的企业宗旨和"**共同合作,共同发展**"的经营理念,以产品质量为基石,以技术开发为先导,全心全意,专业专注。

用我们真诚努力的工作,为客户提供配制合理、性能可靠、技术专业的生产设备和方案。 动力源自于明确的目标,智慧源于不断的学习。我们始终以高科技产品为先导、以优质 的服务为宗旨,竭诚为广大用户提供**一流的产品,一流的质量,一流的服务**。卓恒膨化机械 愿与广大新老客户真诚携手,开拓创新,在互惠共赢的基础上共同建设美好的未来。













P-03 P-04





ZH95-I 大型双螺杆膨化机组 Double-screw Extrusion Unit

#### 双螺杆主机特点

Features of Double-screw Extruder

- ◎ 本机由供料系统、挤压系统、旋切系统、加热系统、 传动系统、控制系统组成。
- ◎ 供料系统,驱动系统,旋切系统均采用变频调速, 动力强劲, 运转平稳, 节省能源。
- ◎ 自动润滑,降低机械能耗,延长了使用寿命。
- ◎ 供料系统采用双螺旋强制喂料,喂料均匀、广泛。
- ◎ 螺杆采用高性能合金钢38CrMoAL, 经渗氮工艺加 工,强度高,耐磨,抗疲劳,使用寿命长。
- ◎ 不同螺杆长径比结构满足不同工艺要求。
- ◎ 双螺杆具有优良的自清理能力,无需拆卸清理。
- ◎ 双轴调制器,可改善物料,提高产量,节省能耗。
- ◎ 机筒采用红外线不锈钢加热圈,各区温度独立调整。

- $\odot$  This machine consists of feeding system, extruding system, cutting system, heating system, transmission system and control system.
- © Feeding, driving and cutting system use frequency control. More powerful, stable r-unning, saving energy.
- ① Automatic lubrication reduces power consumption and prolong the service life.
- © Feeding system use double screw feeding. Feeding uniform, widely.
- © Extruding screws are made of high quality 38 CrMoAL alloy steel. After nitriding process, screw are of high strength, wear resistance, antifatigue, long service life.
- ① Various length-diameter ratio structure will meet different process requirement.
- ① The double-screw have the self-cleaning ability. Restart or replace material without removing the barrel and screws to clean.
- ① It is equipped with double-shaft conditioner, which can improve the material and increase production and save energy.
- © Barrel use the infrared heating circle of stainless steel. The temperature of each heating zone can be adjusted independently.



ZH85-Ⅲ 大型双螺杆膨化机组 Double-screw Extrusion Unit

#### 技术参数Technical Parameter

型号 Model	总功率 Installed power	实耗功率 Power consumption	主电机功率 Main motor power	产量 Capacity	外形尺寸 Dimension
ZH85-II	110kw	66kw	75kw	300~500kg/h	4800×5000×6000mm
ZH95-I	151kw	90kw	110kw	800~1200kg/h	6200×5000×6000mm

P-06 P-05





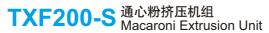






型号 Model	总功率 Installed power	实耗功率 Power consumption	主电机功率 Main motor power	产量 Capacity	外形尺寸 Dimension
ZH65-III	35kw	21kw	22kw	120~150kg/h	3000×1100×1950mm
ZH65-X	35kw	21kw	22kw	150~200kg/h	3000×800×1950mm
ZH70-II	50kw	30kw	37kw	200~250kg/h	3300×1100×2250mm
ZH85-II	97kw	58kw	75kw	300~500kg/h	3580×1040×2050mm









ZH2000-100 单螺杆挤压膨化机 Single-screw Extruder



ZHDG-85 单螺杆挤压膨化机 Single-screw Extruder

#### 单螺杆主机特点

Features of Single-screw Extruder

- ◎ 喂料、旋切、主驱动均采用变频调速系统、动力强 劲、运行平稳、节省能源。
- ◎ 挤压系统配备六组温控及自动冷却装置,控温准确可靠。
- ◎ 悬挂式模具(刀)组座,可提高模具、刀具的更换速度。
- ◎ 双螺旋强制喂料及光电眼跟踪,喂料均匀,防止缺料。
- ◎ 可配置原料调质系统,使产品品质更佳。

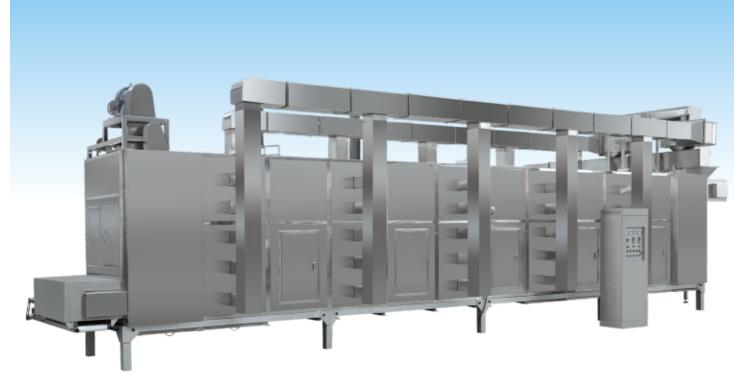
- © Feeding, main driving device, and rotary cutting device adopt inverter to adjust the speed with more powerful drive, stable running, and low consumption.
- ① The barrel is allocated with six temperature control and automatic cooling devices for accuracy.
- $\ensuremath{\bigcirc}$  Hanging mould and knife seat can increase the speed of replacing mould and knife.
- O Double-screw forcible feeding and photoelectric sensor tracking can feed equally.
- O Pre-conditioner can make better products with high quality.

技术参数Technical Parameter

374 1 2 204					
型 <del>명</del> Model	总功率 Installed power	实耗功率 Power consumption	主电机功率 Main motor power	产量 Capacity	外形尺寸 Dimension
TXF300-S	45kw	35kw	30kw	300kg/h	4500×3500×4500mm
TXF200-S	31kw	19kw	22kw	200kg/h	3900×2750×4500mm
TXF100-S	8.85kw	5.5kw	5.5kw	100kg/h	2200×800×1800mm
ZH2000-100	56kw	34kw	30kw	80~120kg/h	3000×850×2100mm
ZHDG-85	60kw	36kw	30kw	85~100kg/h	3500×1100×2300mm

P-09 P-10





ZHKX-RF 烘干箱 Dryer

多层燃油(气)烘箱特点 Features of Diesel / Gas Dryer

- ◎ 安装热风循环装置,使烘箱内热量更加均衡。
- ◎ 网带传输速度可调,并配有准确可靠的温控装置。
- ◎ 双节距滚子链及链轮传动,无死点,运行平稳。
- ◎ 烘箱底部为活动式抽屉,便于残余物料清理,防止起火。 ◎ 适宜烘干非油炸膨化食品、营养粉、面包糠、宠物食品、
- ◎ 采用高效燃油(气)燃烧器供热,升温快、能耗低、效率高。 ◎ High efficient diesel/gas burner can heat swiftly with low consumption and high
  - Hot wind cycle device makes heat energy equal in the dyer.
  - ① Adjustable transit speed of conveyor belt with accurate temperature control device.
  - O Double-roller chain and chain drive make stable and smooth running.
  - Sliding board bottom of dryer for easy cleaning.
  - © Suitable to dry non-fried extrusion snacks, nutritional powder, bread crumb, pet food, textured protein, etc.

### 技术参数Technical Parameter

组织蛋白等。

174 1 2 344					
型号 Model	总功率 Installed power	燃耗/气耗 Diesel/gas consumption	加热温度 Heat temperature	产量 Capacity	外形尺寸 Dimension
ZHKX-RF-100	22kw	6~20.5m³/h	60°C~120°C	100~300kg/h	6300×2250×4000mm
ZHKX-RF-200	26kw	6~20.5m³/h	60°C ~120°C	200~500kg/h	9300×2250×4000mm
ZHKX-RF-300	30kw	6~20.5m³/h	60°C~120°C	300~700kg/h	13300×2250×4000mm
ZHKX-RF-400	35kw	6~20.5m³/h	60°C ~120°C	400~1200kg/h	16300×2250×4000mm



ZHKX-VY-500 五层燃油烤箱 Five Layer Fuel Oil Oven



#### 技术参数Technical Parameter

型号 Model	总功率 Installed power	燃耗/气耗 Diesel/gas consumption	加热温度 Heat temperature	产量 Capacity	外形尺寸 Dimension
ZHKX-VD-300	41kw		常温~160℃	120~150kg/h	6100×1400×1800mm
ZHKX-VD-500	63kw		常温~160℃	180~240kg/h	6100×1400×2000mm
ZHKX-VY-500		6~20.5m³/h	常温~160℃	180~240kg/h	6100×1950×2600mm

P-11 P-12





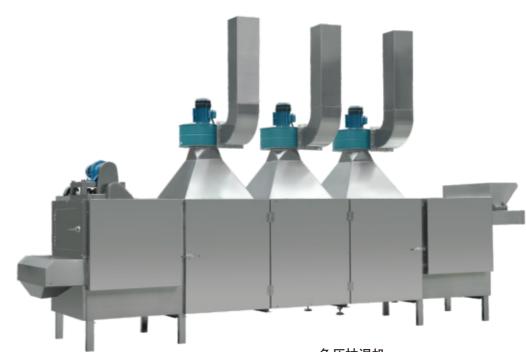
ZHKX-VD-900 五层电烤箱 Five Layer Electricity Oven



GWL500-D 高温烤炉 High Temperature Oven







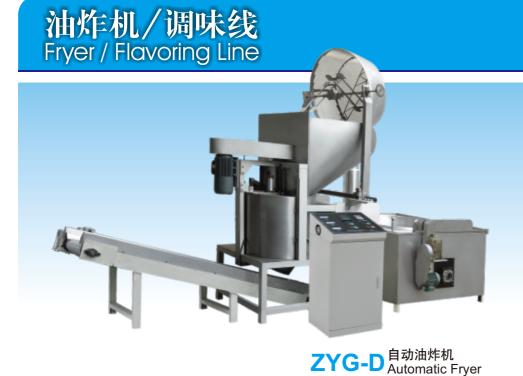
ZH-I 负压抽湿机 Negative Pressure Dehumidifier

#### 技术参数Technical Parameter

型号 Model	总功率 Installed power	燃耗/气耗 Diesel/gas consumption	加热温度 Heat temperature	产量 Capacity	外形尺寸 Dimension
ZHKX-VD-900	120kw		常温~160℃	400~600kg/h	10000×1400×2010mm
ZHKX-VQ-900	11.5kw	300-500kg/h	常温~160℃	400~600kg/h	10000×1400×2010mm
ZHKX-V	78kw		常温~160℃	200~400kg/h	7100×1400×2010mm
GWL500-D	110kw		180~270°C	300~500kg/h	4650×1300×2250mm
ZH-I	5.25kw			1000~1200kg/h	6100×1400×3420mm

P-13 P-14







储油罐Oil storage tank





滤油机Oil filter



震动布料机Vibration machine

#### 连续油炸机特点 Features of Fryer

- ◎ 高效热油锅炉循环加热方式,油升温迅速、波动小。
- ◎ 在炸制过程中, 引用动态滤油系统, 随时清除废渣, 保持炸油新鲜,解决油渣残留致炸油劣化的问题。
- ◎ 优化的锅体结构,注油量减少,炸油周转率高。
- ◎ 锅体输送可分离,方便清理,振动进料,下料均匀。
- ◎ 可采用燃油、燃气、燃煤等多种能源。

- ⊚ Hot oil boiler circular heating makes temperature up fast and small fluctuation of oil
- ① Dynamic oil filter system cleans the waste residue and keeps oil fresh during frying.
- Optimized boiler can reduce the needed oil quantity and make high oil velocity.
- feeding material, discharging equally.
- ⊚ It can adopt diesel, gas, coal, etc. as energy source.

#### 技术参数Technical Parameter

127/12/201111100					
型号 Model	总功率 Installed power	燃耗/气耗 Diesel/gas consumption	加热温度 Heat temperature	产量 Capacity	外形尺寸 Dimension
ZYG-D	51kw		0~250°C	150~250kg/h	4750×2150×2900mm
ZYG-Y	5kw	5.1~10L/h	0~250°C	150~250kg/h	4800×2300×2900mm
LXYG-D	120kw		0~250°C	400~600kg/h	5300×1200×2400mm





#### 技术参数Technical Parameter

型号 Model	总功率 Installed power	产量 Capacity	外形尺寸 Dimension	型号 Model	总功率 Installed power	产量 Capacity	外形尺寸 Dimension
GTW-D-I	4.6kw	150~500kg/h	6000×760×1580mm	PTG	13.8kw	150~500kg/h	2900×1370×1850mm
GTW-D-II	4.97kw	1000~1500kg/h	7500×920×1660mm	GTG	6.5kw	150~500kg/h	2850×760×1700mm

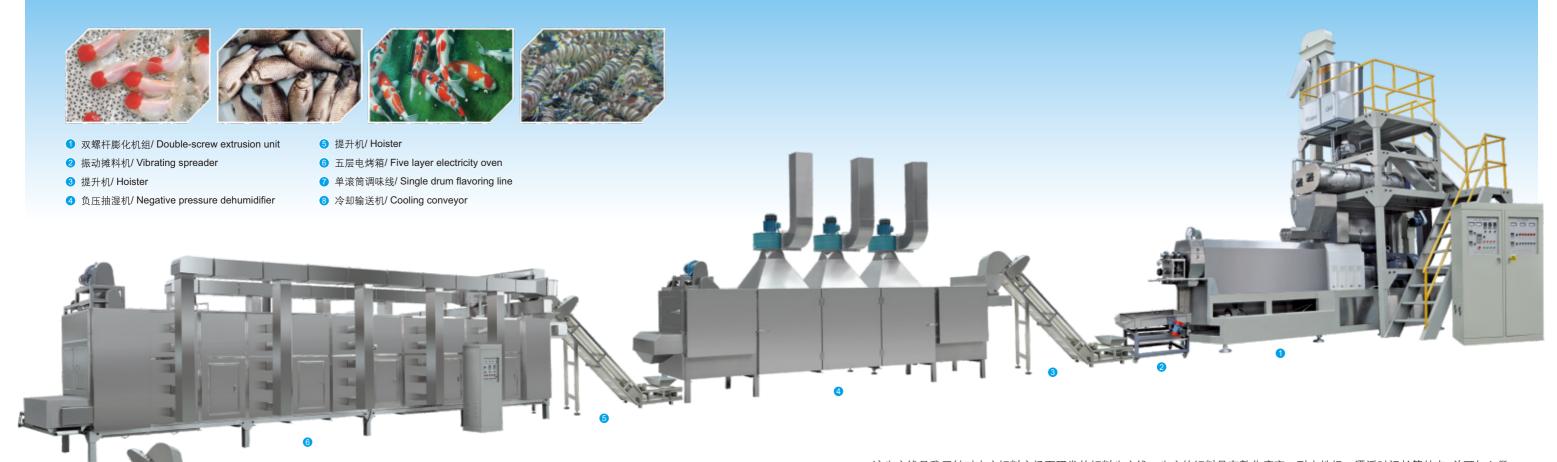
GTW-D-I 单滚筒调味线 Flavoring Line

P-15 P-16

## 大型水产饲料、鱼饲料生产线 Large-scale Aquatic Feed, Fish Feed Processing Line

Provide The Most Professional Equipment And Solutions





生产线工艺流程 Process flow of production

#### 技术参数Technical Parameter

型무 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH95水产饲料生产线Aquatic Feed Processing Line	296kw	177kw	800~1200kg/h
ZH139水产饲料生产线Aquatic Feed Processing Line	586kw	352kw	1500~5000kg/h

该生产线是我司针对水产饲料市场而研发的饲料生产线。生产的饲料具有熟化度高,耐水性好,漂浮时间长等特点,并可加入微量元素,可以促进宠物,鱼类快速生长,深受养殖企业欢迎。生产线自动化程度高,产量大,是不同生产厂家理想的选择。

This feed production line is researched for aquatic feed market. products with high degree of maturation. good waterproof, long floating time, also can add microelement to promote the grow of pet fish. welcomed to breeding industry. Production line with full automatic and high capacity, is a good choice for different customer.



## 宠物食品生产线 Pet Food Processing Line

Provide The Most Professional Fauipment And Solutions





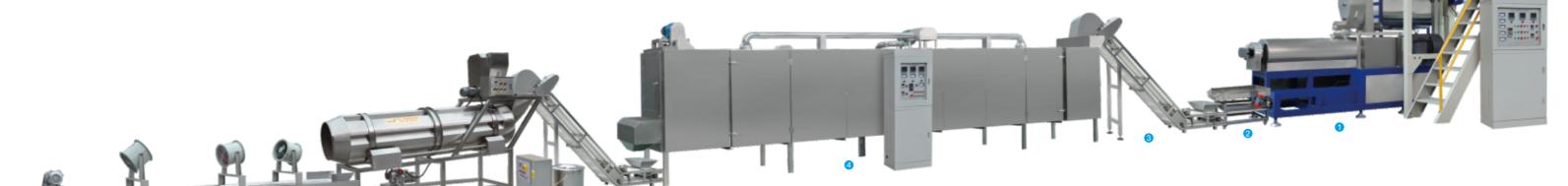






- ① 双螺杆膨化机组/ Double-screw extrusion unit
- 2 振动摊料机/ Vibrating spreader
- 3 提升机/ Hoister

- 4 五层电烤箱/ Five layer electricity oven
- 5 单滚筒调味线/ Single drum flavoring line
- 6 冷却输送机/ Cooling conveyor



挤压膨化技术的魅力在于它能够提供给人们意想不到的加工手段,结合市场需要,由卓恒公司研制开发的宠物食品设备,以粮食、肉粉、鱼粉 、豆粕粉等多种原料,采用独特的加工工艺和设备配置,生产多种形状,口味独特,易于消化的宠物食品和鱼鸟饲料,深受宠物市场的欢迎。

The charm of extrusion technology is that it can provide unexpected processing methods to people. Zhuoheng company combined with the needs of the market to develop the pet food machines which adopt unique Processing technology and equipment configuration, using grain flour, meat meal, soybean meal etc as raw materials to produce a variety of shapes of pet food and fish feed with special tastes and easy to digest, welcomed by the pet market.

#### 技术参数Technical Parameter

型号 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65宠物食品生产线Pet Food Process Line	112kw	67kw	120~150kg/h
ZH70宠物食品生产线Pet Food Process Line	142kw	85kw	200~250kg/h
ZH85宠物食品生产线Pet Food Process Line	235kw	141kw	300~500kg/h
ZH95宠物食品生产线Pet Food Process Line	296kw	177kw	800~1200kg/h





P-19 P-20

## 大型通心粉、意大利面生产线 Large-scale Macaroni And Pasta Processing Line

Provide The Most Professional Equipment And Solutions





该生产线以面粉为原料,通过特殊的挤压过程加工生产出圆管形,弯管形、螺旋形、贝壳形等各种形状的通心粉产品。该生产线设备配置完善,生产工艺先进,产品质地优良,操作简单可靠;是理想的通心粉产品生产设备。

This machine line can use wheat flour as main material to make different shapes pasta, like tube, elbow, screw, shell etc. Equipment configuration is perfect, advanced production technology; good quality products, simple and reliable operation; is the ideal equipment to make macaroni.

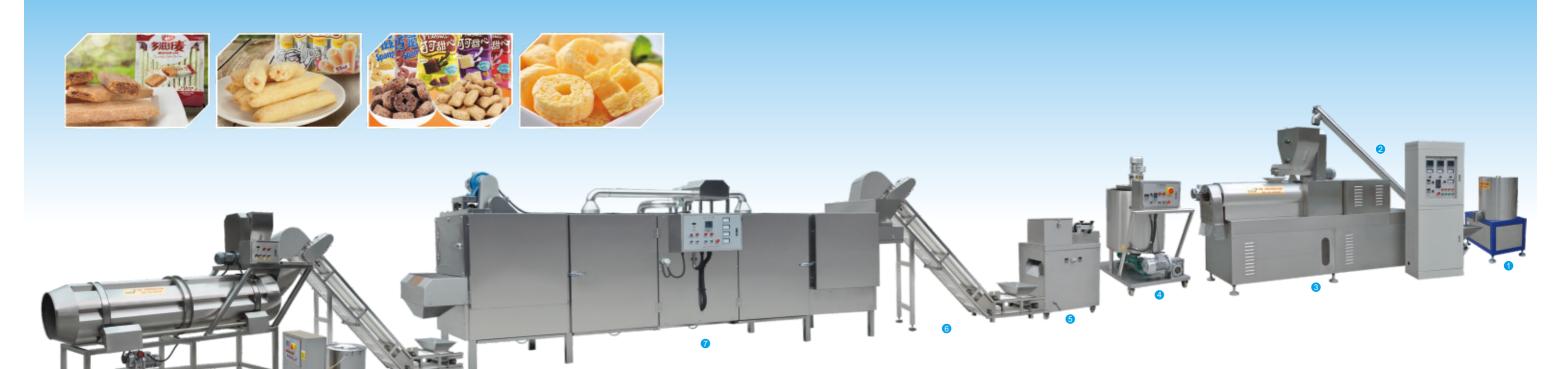
型무 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
TXF100-S通心粉生产线Macaroni Process Line	35kw	21kw	85~100kg/h
TXF200-S通心粉生产线Macaroni Process Line	50kw	37kw	160~220kg/h
TXF300-S通心粉生产线Macaroni Process Line	60kw	45kw	300kg/h





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该生产线采用先进的挤压技术,从混料,挤压,成型,夹心,切断,烘烤,调味,冷却完全实现自动化。同时可以更换模具生产不同形状的夹心米果和膨化食品,该自动生产线以"适用原料广泛,操作维修方便,能耗低"等特点在国内处于领先水平。

The production line uses advanced extrusion technology and achieve automation from mixing, extrusion, shaping, filling, cutting, drying, flavoring, cooling. meantime it can produce different shapes corn filling snack and puffed food by changing the moulds. This automatic process is of leading level for its superior characters "normal material, convenient operation and maintenance, lower power consumption, higher output".

#### 技术参数Technical Parameter

型무 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65休闲食品生产线Core-filling Snack Process Line	93kw	56kw	120~150kg/h
ZH70休闲食品生产线Core-filling Snack Process Line	130kw	78kw	200~250kg/h

- 1 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- 3 双螺杆主机/ Double-screw extruder
- 4 夹馅机/ Core filler
- 5 多功能整形机/ Multi-functional shaper
- 6 提升机/ Hoister
- 8 单滚筒调味线/ Single drum flavoring line
- 9 冷却输送机/ Cooling conveyor



生产线工艺流程

Process flow of production

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早餐谷物食品是一种脆性食品,是以谷物为基本原料,经该生产线加工而成颗粒形、薄片形或动物造型的营养方便食品。其突出特点是含有丰富的复合碳水化合物及膳食纤维,同时该挤压膨化加工技术既可强化多种微量元素,如维生素和矿物质,又可添加可可粉、糖粉、蜂蜜、麦芽糖等。兑入咖啡、牛奶、酸奶或功能饮料后,可直接食用。儿童还可将早餐谷物食品当成甜脆休闲小吃食用。

Breakfast cereal food is one crispy food which is processed by this line using grist as basic material. It is fast and nourishing food with given structure in granule shape, flake shape and animal shape. Its outstanding characteristic is containing abundant compound carbohydrate and meal fibre. Breakfast cereal can not only strengthen lots of microelement such as vitamin and mineral, but also be added with cocoa powder, sugar powder, honey, and maltose. You can enjoy it directly by mixing with coffee, milk, yoghourt or functional drink. Children can eat breakfast cereal as sweet crispy snack.

生产线工艺流程 Process flow of production

[原料混合 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*

- 三层电烤箱/Three layer electricity oven
- 億 提升烤箱/ Hoister oven



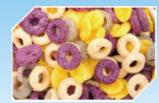
技术参数Technical Parameter

5 风送机/ Air conveyor

型묵 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65玉米片生产线Breakfast Cereal Process Line	310kw	186kw	120~150kg/h
ZH70玉米片生产线Breakfast Cereal Process Line	348kw	208kw	200~250kg/h
ZH85玉米片生产线Breakfast Cereal Process Line	425kw	255kw	300~500kg/h

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- 1 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- 3 双螺杆主机/ Double-screw extruder
- 4 振动摊料机/ Vibrating spreader
- 5 提升机/ Hoister
- 6 三层电烘箱/ Three layer electricity oven
- 7 单滚筒调味线/ Single drum flavoring line
- 8 冷却输送机/ Cooling conveyor

该生产线采用先进的挤压技术,通过变换模具和改变生产工艺,可以生产市场流行的各种形状的膨化休闲食品。该生产线配置灵 活,适应性强,深受业内人士好评。

The production line uses advanced extrusion technology to produce puffed snack foods of various shapes popular in the market by changing molds and changing production processes. The production line is flexible in configuration and adaptable, and is highly praised by the industry.

#### 技术参数Technical Parameter

型무 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65膨化食品生产线Puff Snack Food Processing Line	89kw	53kw	120~150kg/h
ZH70膨化食品生产线Puff Snack Food Processing Line	126kw	75kw	200~250kg/h
ZH85膨化食品生产线Puff Snack Food Processing Line	191kw	114kw	300~500kg/h
ZH95膨化食品生产线Puff Snack Food Processing Line	289kw	173kw	800~1200kg/h



生产线工艺流程 Process flow of production

振动布料 Vibrating spread 原料混合 Material mixing 挤压成型 xtrusion shaping





生产线工艺流程 Process flow of production







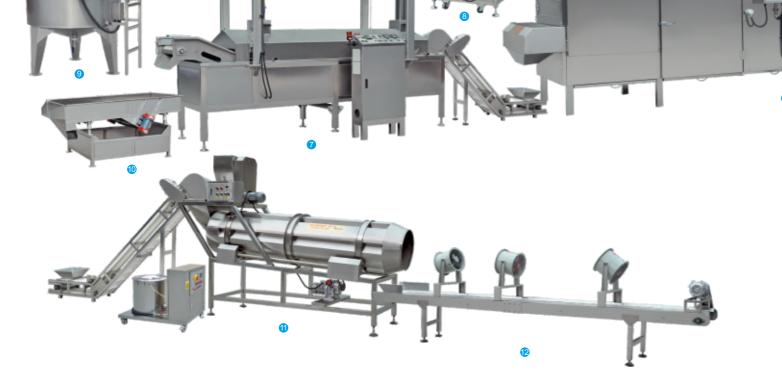
- ① 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- ③ 双螺杆主机/ Double-screw extruder
- 4 牵引切断机/ Pulling cutter
- 5 提升机/ Hoister
- 5 烘干机/ Dryer

- 7 自动连续油炸机/ Continuous fryer
- 8 滤油机/ Oil filter
- ⑨ 储油罐/ Oil storage tank
- 10 震动布料机/ Vibration machine

⑫ 冷却输送机/ Cooling conveyor

① 单滚筒调味线/ Single drum flavoring line





牵引切断机/ Pulling cutter

该线以玉米粉、面粉为主要原料,经过螺杆挤压机挤压熟化。再静油炸,生产形状新颖,香脆可口,组织细腻的休闲食品。产品熟 化程度高,便于消化吸收,深受市场欢迎。生产线从喂料、挤压、输送到油炸调味等自动完成。

This line use corn four, wheat flour as the main raw material, first extruded, cured by the double screw extruder, then fried by the fryer. This line can produce the snack food fashion shape, good and special taste, the tissue of the food line and smooth, easily to absorb and is quite popular in the market.

原料混合 Material mixing	挤压成型 Extrusion shaping	→>> 牵引切断 Pulling & cutting	<b>→&gt;</b>	烘 干 Drying	<b>&gt;&gt;</b>	油 炸 Frying	<b>&gt;&gt;</b>	调 味 Flavoring	<b>-&gt;&gt;</b>	冷却输送 Cooling & convey	<b>&gt;&gt;</b>	包 装 Packaging

型묵 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
Zh65沙拉休闲食品生产线 Salad Snack Food Processing Line	194kw	125kw	120~150kg/h
ZH70沙拉休闲食品生产线 Salad Snack Food Processing Line	209kw	155kw	200~250kg/h

## 组织蛋白、拉丝蛋白、素肉食品生产线 Textured / Fiber Vegetarian Soya Protein Processing Line

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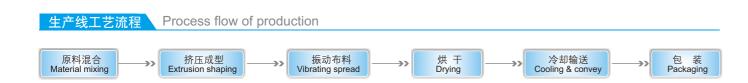




- 1 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- 3 双螺杆主机/ Double-screw extruder
- 4 振动摊料机/ Vibrating spreader
- 5 提升机/ Hoister
- 6 五层电烤箱/ Five layer electricity oven
- 7 冷却输送机/ Cooling conveyor

组织蛋白生产线是我公司为适应食品市场的需求,很据多年的经验而研制的新型膨化设备。该设备利用低温脱脂豆粕或花生粕为原料,生产如熟肉状态有咀嚼的新型食品,可广泛用于火腿、香肠、罐头、快餐食品、速冻食品等行业。

Soyabean protein food processing line is a new kind of inflating processing line which is produced and developed according to our rice experiences and the requirement of food market. This line adopts low-temperature soyabean powder as main material to produce new foods which looks like muscle and has the sense of mastication. This kind of food has high nutrition and can be widely applied in many industries: ham, cam, fast-food, instant-cool food etc.





#### 技术参数Technical Parameter

型묵 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65组织蛋白生产线Textured protein process line	117kw	70kw	180~220kg/h
ZH70组织蛋白生产线Textured protein process line	142kw	85kw	250~320kg/h
ZH85组织蛋白生产线Textured protein process line	208kw	124kw	450~550kg/h
ZH95组织蛋白生产线Textured protein process line	287kw	172kw	800~1200kg/h

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- 1 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- 3 双螺杆主机/ Double-screw extruder
- 4 振动布料机/ Vibrating spreader
- 5 提升机/ Hoister
- 6 五层电烘箱/ Five layer electricity oven
- 7 提升机/ Hoister
- 8 超微粉碎机/ Ultrafine grinder

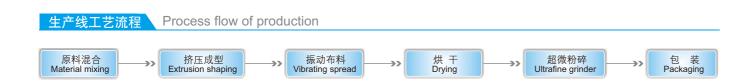


该生产线是双螺杆挤压膨化技术又一新的扩展应用。传统的手工炒制法效率低,卫生、质量难以掌控,可加工原料单一。双螺杆挤压 膨化技术弥补了以上不足,加工原料广泛,大米粉、玉米粉、豆粉,荞麦、燕麦等均可加工;同时可强化各种营养素,生产多种功能的营 养保健食品,如:"瘦身谷物粉"、"红枣莲子羹"、"荞麦粉"、"黑芝麻糊"等。

该生产线经过调节双螺杆挤压机机筒和螺杆结构,经挤压膨化、干燥、粉碎,可以同时生产多元化的变性淀粉系列产品,适用于纺织品制造,食品加工,造纸,建材,铸造,石油钻井等领域。

This process line is one of the newly developed double-screw extruding techniques of our company. The traditional stir-fry handiwork has low efficient and less usable raw materials, and its sanitation and quality are difficult to control. The double-screw extruding technique makes up those lacknesses. It not only can process grain materials, like buckwheat, oats, etc. but strengthen the nutrients to produce multi-functional nutritional healthy food, such as slimming grain powder, buckwheat powder, black sesame paste, red chinese date thick soup, etc.

This production line can make modified Starch, denatured starch, pre gel starch by changing different designed barrel andscrews of double screw extruder. Through extruding, inflating, drying, crushing. It is widely used in textile, foodprocess, oil drilling, paper, etc.





### 技术参数Technical Parameter

型묵 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65营养粉生产线Nutritional powder process line	100kw	60kw	120~150kg/h
ZH70营养粉生产线Nutritional powder process line	144kw	86kw	200~250kg/h
ZH85营养粉生产线Nutritional powder process line	232kw	139kw	300~500kg/h
ZH95营养粉生产线Nutritional powder process line	370kw	222kw	800~1000kg/h

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- 1 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- 3 双螺杆主机/ Double-screw extruder
- 4 面包糠切断机/ Cutting machine
- 5 提升机/ Hoister

- 6 粉糠机/ Grinder
- 7 螺旋提料机/ Screw conveyor
- 8 筛糠机/ Screen machine
- 9 提升机/ Hoister
- ⑪ 三层电烘箱/ Three layer electricity oven

"面包糠"是广泛使用的食品添加辅料,主要用于西餐炸牛排、炸鸡腿等油炸辅料。我公司研制开发的"面包糠"专用生产线生产改变了传统面包糠的生产工艺,从面料投入到打碎成型均为流水线生产,人员少、余料可重复使用、无废料、降低了制造成本,提高了劳动生产率。该生产线系国内首创,独家生产。

Crumb is mainly used for fried beefsteak and chicken as frying dressing. This line is specially designed and developed to operate from the material to final shaping automatically with less manpower, without waste, lower production cost, and higher production efficiency. This process line is firstly designed and manufactured by our company.

### 生产线工艺流程 Process flow of production





型号 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH65面包糠生产线Bread crumb process line	98kw	59kw	120~150kg/h
ZH70面包糠生产线Bread crumb process line	136kw	80kw	200~250kg/h
ZH85面包糠生产线Bread crumb process line	202kw	121kw	300~500kg/h
ZH95面包糠生产线Bread crumb process line	191kw	114kw	800~1000kg/h

Provide The Most Professional Equipment And Solutions





- ① 拌粉机/ Flour mixer
- 2 螺旋提料机/ Screw conveyor
- 3 单螺杆主机/ Single extruder
- 4 牵引切断机/ Pulling cutter
- 5 提升机/ Hoister
- 6 烘干机/ Dryer
- 7 自动连续油炸机/ Continuous fryer
- 8 单滚筒调味线/ Single drum flavoring line

该生产线以薯类淀粉、玉米淀粉为主要原料,生产市场上流行的豌豆脆、贝壳、螺旋、方管、圆管、波浪等形状各异的二次膨化食品。该生产线工艺独特,配置合理,自动化程度高,性能稳定,无需配置锅炉,集蒸炼挤压成型为一体,生产出的产品造型逼真,油炸后组织细腻,口感酥脆。

This process line uses potato starch, corn starch as main materials to produce a variety of twice extrusion food in different shapes which are popular in the market, such as crispy pea, shell, screw, square tube, round tube, wave, etc. This process line is characterized by unique technics, rational configuration, high automation and stable performance. It can finish steaming, extruding and shaping in one step without a boiler. The products have similar shapes to the real one and taste crispy and delicious after fried.

## 



型묵 Model	总装容量 Installed power	实耗功率 Power consumption	生产能力 Capacity
ZH2000-100二次膨化生产线2D Pellet process line	121kw	72kw	80~120kg/h
ZH2000-85二次膨化生产线2D Pellet process line	127kw	76kw	85~100kg/h





### ZHK-520 全自动颗粒包装生产线 Full-automatic Granule Packing Line

生产线特点 Features of Packing Line

- ◎ 进口PLC全电脑控制系统,人机界面,触摸屏操作简 便、直观,性能卓越。
- ◎ 伺服运膜系统,定位准确、包装美观。
- ◎ 完善的自动报警保护功能,将损耗减到最低。
- ◎ 本机与计量装置配套即可自动完成计量、送料、充填 制袋、日期打印的全部包装过程。
- O PLC control with touch panel-step by step instruction.
- © Equipped with servo winding system, pneumatic control
- reliability and stability.
- O Use intellectual temperature controller, the high temperature control to ensure the neat sealing.
- ① The perfect automatic alarm safety protection, little waste. This machine completes the whole packing procedure of measuring, feeding, bagging, date printing, charging (exhausting), products out-putting. Counting automatically.



### ZH-50 电子定量包装称 Electronic Quantitative Packing Scales

生产线特点 Features of Packing Line

- ◎ 该系列电子秤是一种采用当今最新技术的净重型电子 秤,它适合于瓜子、花生、莲子、核桃等不规则物料
- ◎ 该系列电子秤给料系统采用双振动门式放料, 大、小 加料及瞬间停止落料等多种处理形式。
- ◎ 有效的保证了包装的精度、速度。
- ① The electronic scale is a kind of using today's latest technology net heavy electronic scale, it is suitable for melon seeds, peanuts, lotus seed, walnut and irregular materials weighing metering packaging.
- ① This series of electronic scale feeding system adopts double door type vibration feeding, large and small feeding instantaneous stop blanking processing a variety of ways.
- © Effectively guarantee the packing speed and accuracy.

#### 技术参数Technical Parameter

型号/Model	ZHK-398	ZHK-520	ZHK-720	ZH-50
电源规格Power specification	3.0Kw/220V, 50Hz	3.5Kw/220V, 50Hz	4.5Kw/220V, 50Hz	1.5Kw/380V, 50Hz
包装速度Packing speed	≤45bag/min	≤45bag/min	≤45bag/min	240bag/h
包装袋尺寸Pouch size	W:50-200mm L:100-300mm	W:100-250mm L:100-350mm	W:100-350mm L:100-450mm	Air source: 0.4-0.8Mpa
包装重量Packing weight	10-1000g	10-1000g	10-1000g	25-50kg
外型尺寸Dimension	1400×980×1700mm	1430×1200×1700mm	1780×1350×2000mm	750×1360×2400mm



### WFJ 系列超微粉碎机 Series Ultrafine Grinder

#### 技术参数Technical Parameter

型号 Model	生产能力(kg/h) Production capacity	总功率(kw) Total Power	主轴转速(r/min) Main speed	外形尺寸(mm) Overall size	重量(kg) Weight
15型	50-200	16.75	5800	4200×1250×2700	850
20型	80-300	22.15	4200	4700×1250×2900	850
30型	100-800	46	3800	6640×1300×3960	960
60型	200-1000	84.15	3200	7500×2300×4530	3200

### B型 万能吸尘式粉碎机/单机 Universal Aspiration Crusher/Stand-alone

#### 技术参数Technical Parameter

型号/Model	20B型	30B型	40B型	50B型			
生产能力(kg/h)Production Capacity	60-150	100-300	200-500	300-800			
粉碎细度(mesh)Crushing fineness	20-120mesh						
粉碎电机(kw)Crushing Motor	4	5.5	7.5	18.5			
吸尘电机(kw)Vacuum Motor	0.55	0.75	1.5	2.2			
吸尘尺寸(mm)Aspiration dimension	1650×110×1650	1800×600×1650	2050×1600×1700	2150×1750×2700			



### **S49** 系列三维旋转振动筛 Series Three-D Rotary Vibrating Sieve

#### 技术参数Technical Parameter

型号 Model Effective s	有效筛分面积(m²)	筛网规格(mesh) Sieving mesh specification	层(s) Layer	功率Power(kw)		
	Effective sieving area			震动功率Vibration motor	常规功率Common motor	
S49-600	0.2289	2-500	1-4	0.25	0.75	
S49-800	0.4183	2-500	1-4	0.55	1.1	
S49-1200	0.9499	2-500	1-4	1.1	1.5	
S49-1500	1.5386	2-500	1-4	1.5	2.2	
S49-1800	2.2687	2-500	1-3	4.0	3.0	

### GFP系列颗粒方形筛 Series Granule Pill Screen

#### 技术参数Technical Parameter

12/1/932 roommon' arameter								
型号 Model	尺寸(mm) Size	物料粒度(mm) Material granularity	振幅 Amplitude	层(s) Layers	功率(kw) Power			
GFP-616	670×1190	0.25-15	1-8	1-3	2×0.25			
GFP-620	670×1840				2×0.4			
GFP-820	800×1835				2×0.75			



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