the pictures shown are subject to the true machinery.



2026版

Focus On Manufacturing And R&D Of

Food Extrusion

Excellent Quality Prominent Service
Faithful Attitude Promise Fulfilled

专业食品挤压膨化



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济南真诺机械有限公司
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About us 关于我们

济南真诺机械有限公司
Jinan Arrow Machinery Co., Ltd.

Jinan Arrow Machinery Co.,Ltd was established in 2006, and located in the beautiful spring city of Jinan, the capital of Shandong Province (China). The company is the high-tech and inteligent enterprise integrating design, research and development, manufacturing and sales of various extrusion machinery and complete sets of equipment. We have been adhering to the concept of " Faithful Attitude Promise Fulfiled" all the time, and now developed into the leading food extrusion manufacturer.
With development of more than 20 years, the company's plant area has reached 22,500 square meters, and built our own R&D innovation center. We have exported to 118 countries and service more than 4,500 customer factories with over 35 years experiences in this industry, got CE, 1S09001 certificates, 30 technical patent certificates, 8 software copyrights, and successively won honorary titles such as “High-tech Enterprise” and “Contract-honoring and Promise-keeping Enterprise”. We focus on providing the professional machinery and turn-key engineering solutions of food processing industry for all customers.

济南真诺机械有限公司成立于 2006 年，坐落于(中国)山东省省会,美丽的泉城济南。公司是一家以设计，研发、制造销售各种挤压膨化机械及成套设备为一体的高新智造型企业，一直秉承“真心实意,一诺千金”的宗旨，现已发展为国内领先的挤压食品生产设备制造商。
经过近二十年的发展，公司厂房面积已达 22500 余平方米，打造了一支拥有自主创新能力的技术研发团队。拥有35年行业经验，服务于4500余家客户工厂，产品销往 118 个国家和地区。获得CE、ISO9001认证和30项技术专利证书、8项软件著作权，先后荣获“高新技术企业”“重合同守信用企业!”等荣誉称号。公司致力于真正为客户解决问题，以提供符合客户实际生产需求的定制化解决方案为奋斗目标。

2006 *Founded in*

4500 *Customer factories*

22500㎡ *Factory area*

200 *Employees*



DIRECTORY 目录

- ***Company Introduction*** 公司介绍 — 01-06
- ***Puff Snacks Process Line*** 膨化食品生产线 — 07-14
- ***Corn Flakes / Breakfast Cereals Process Line*** 玉米片、早餐谷物生产线 — 15-18
- ***2D/3D Snack Pellet Process Line*** Pellet零食生产线 — 19-24
- ***Extruded Instant Food Process Line*** 挤压即食食品生产线 — 25-29
- ***Healthy Fitness Snacks Process Line*** 健康食品生产线 — 30-32
- ***Potato Chips / Popcorn / Fried Snack Process Line*** 薯片、爆米花、油炸小吃生产线 — 33-40
- ***Nutrition & Ingredients Process Line*** 营养及原料、配料生产线 — 41-46
- ***Plant-Based & Vegetarian Food Process Line*** 干法蛋白和湿法蛋白生产线 — 47-52
- ***Extrusion Rice Straw Process Line*** 大米吸管/挤压可降解餐具生产线 — 53-54
- ***Double Screw Extruder*** 双螺杆挤压膨化主机 — 55-58
- ***Drying Machine / Oven*** 干燥机/烤箱 — 59-62
- ***Flavoring / Coating / Auxiliary Machinery*** 调味/喷涂/配线辅助 — 63-64
- ***Packing Machine*** 包装机 — 65-66
- ***Customer factory site*** 客户现场 — 67-68
- ***High-quality accessories / After-sales service*** 优质配件/售后服务 — 69-70

Cooperate Customers 合作客户



Qualification & Patent 资质和专利

We have more than **30** national patent certificates, **8** software copyrights, and have been awarded the High-tech Enterprise Certificate. We have passed CE and ISO9001 certifications and comply with the 6S management system.

公司拥有30多项国家专利证书，8项软件著作权，荣获高新技术企业证书，
通过CE、ISO9001认证，严格执行6S管理体系。



















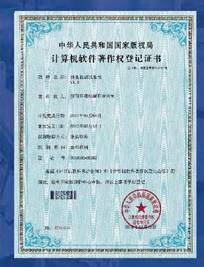
















Company Environment & Team 公司环境和团队









Our Exhibition 展会


• Vietnam Exhibition



• Bakery Fair 焙烤博览会


• Thaifex


• International FoodTec India


• Interpack



• Food Fair 食品博览会



• Brazil Exhibition


• Canton Fair 春季广交会


• Canton Fair 秋季广交会


• Gulfood Manufacturing



• АГРОПРОДМАШ



• China Food & Drinks Fair 全国糖酒会

Puff Snacks Process Line

膨化食品生产线

Puff Snacks 膨化休闲食品



Core Filling 夹心米果



Doritos / Tortilla / Corn Chips / Bugles etc. 三角片/多力多滋/玉米薄饼等



Kurkure / Cheetos / Niknak / Corn Curls 奇多/粟米条



Puffing Snacks /Core Filling Process Line
膨化食品/夹心米果生产线

Introduction 设备介绍

This process line is a typical type extruded food machine studied and developed by ourselveson the basis of learning from advanced technology in the world so that both its technical performanceand products quality reach to the most advanced level in the world. This line can finish mixing.extruding, shaping, core-filing, cutting, baking and flavoring in one-pass operation automatically. Thisline features lots of types, flexible collocation, extensive applied raw materials, various snacks andeasy operation. By changing the moulds and process technology, this line can produce core-filledsnacks, like chocolate filled bar, cream filled pillow, rice cake, cereal bar, sheet snacks etc.

该生产线是我公司在吸收国外同类设备先进技术的基础上，自行研发的新一代膨化食品生产设备，其技术性能和产品质量均达到同类设备的先进水平;生产线从配料、挤压、膨化、成型、夹心、切断、喷涂到成品一次完成，完全实现自动化。该生产线具有机型多，设备配置灵活，原料范围广泛，产品种类繁多，操作简单等特点。通过变换模具和生产工艺，可以生产夹心饼、膨化米果、麦烧、营养早餐等产品，适合于各种食品厂家。

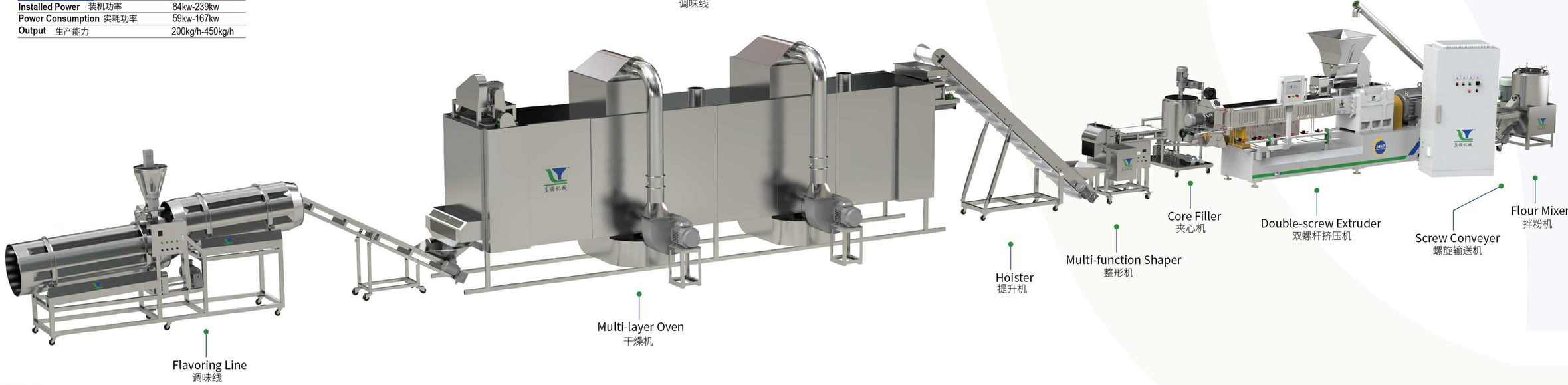
ETT65/78/98

Installed Power 装机功率	150kw - 295kw
Power Consumption 实耗功率	110kw -222kw
Output 生产能力	200kg/h -2500kg/h

SLT68/70/85

Installed Power 装机功率	84kw-239kw
Power Consumption 实耗功率	59kw-167kw
Output 生产能力	200kg/h-450kg/h





Sample



01 Flour Mixer
02 Screw Conveyer
03 Double-screw Extruder
04 Core Filler
05 Multi-function Shaper
06 Hoister
07 Multi-layer Oven
08 Flavoring Line

Crispy Chips /Bugles /Sticks /Process Line

锅巴/沙拉/尖角脆/妙脆角生产线

Introduction 设备介绍

This process line uses double screw extruding technique to replace the traditional steam boling process, it incudes mixing, extruding,shaping, frying and fiavoring process, no needing boiler, with simple process, high efficiency and itle pollution. The raw materials can be ricepowder, corn powder, wheat fiour individually or their mixture. Only by changing the moulds, shaping or cutting machine, the shapes can bevarious, like sticks, square sheet rib chips, diamond chips, wavy chips, pilow shapes and bugles etc. The taste is savory and not greasy.

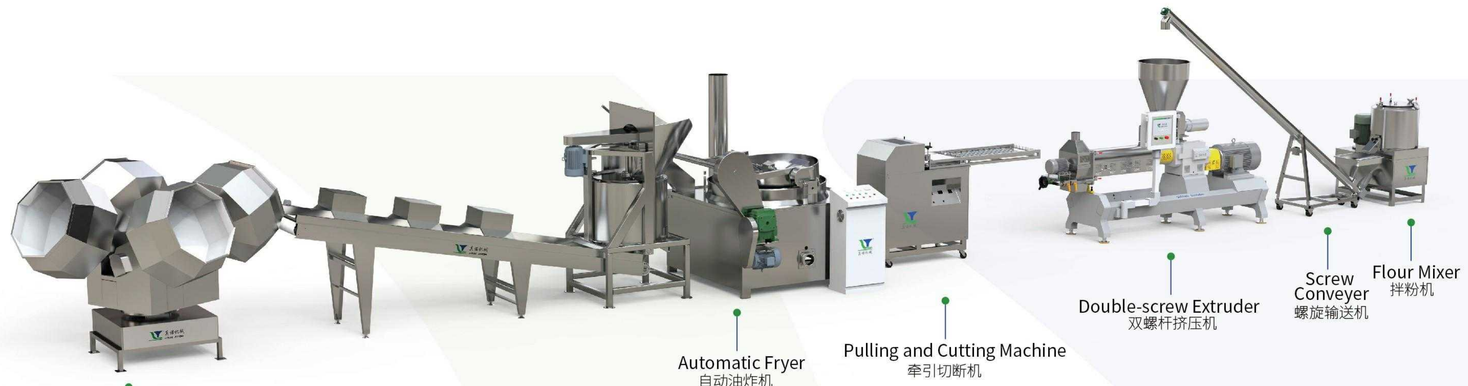
锅巴/沙拉/尖角脆生产线是双螺杆挤压膨化技术替代传统式锅巴等生产的新技术。生产线集混合、熟化、膨化、成形于一体。且无需锅炉，生产工序简化、高效、环保低碳。原料既可以是大米粉、玉米粉、面粉等单一物料，也可以是其混合料。仅通过变换模具和成型机与切断机即可改变形状:条状、带波纹的方片状、菱形片状、波浪形片状、枕头形以及号角形等。生产的锅巴、沙拉条、沙拉片、尖角脆、妙脆角等食品花色多样、口感酥脆而不油腻。

Sample



ETT65/78/98	
Installed Power 装机功率	150kw - 295kw
Power Consumption 实耗功率	110kw -222kw
Output 生产能力	200kg/h -2500kg/h

SLT68/70/85	
Installed Power 装机功率	84kw-239kw
Power Consumption 实耗功率	59kw-167kw
Output 生产能力	200kg/h-450kg/h



01 Flour Mixer
02 Screw Conveyer
03 Double-screw Extruder
04 Pulling and Cutting Machine
05 Automatic Fryer
06 Eight Square Seasoning Machine

Doritos /Tortilla /Corn Chips /Process Line

三角片/多力多滋/玉米薄饼生产线

Introduction 设备介绍

The Doritos /Tortila /Corn Chips are kinds of snacks made from corn powder, which are extruded, cut and then fied. The main rawmaterials are corn powder, water, vegetable oil and salt. Although usually made of yellow corn (as pictured), they can also be made ofwhite or red corn or wheat fiour. After fnying and fiavoring, we get very crunchy triangle or other shapes chips which are popular with bothchildren and adult.

三角片/多力多滋/玉米薄饼生产线是玉米粉经挤压、成型及油炸而成。它的主要配料是玉米粉、水、植物油和盐。该产品大多数情况下由黄玉米制成，也可采用白玉米、红玉米来生产。经过油炸后，用各种味道的调味粉喷洒在表面。因其清脆可口，而备受儿童及成年人的喜爱。

Sample



ETT65/78/98	
Installed Power 装机功率	205kw - 368kw
Power Consumption 实耗功率	149kw -276kw
Output 生产能力	200kg/h -2500kg/h

SLT68/70/85	
Installed Power 装机功率	143kw-232kw
Power Consumption 实耗功率	100kw-174kw
Output 生产能力	200kg/h-450kg/h



01 Flour Mixer
02 Screw Conveyer
03 Double-screw Extruder
04 Roller Cutting Machine
05 Hoister
06 Separate Drum
07 Vibrate Feeder
08 Continuous Fryer
09 Vibrate De-oil Machine
10 Flavoring Line

Kurkure /Cheetos /Niknak /Corn Curls Process Line 奇多/粟米条生产线

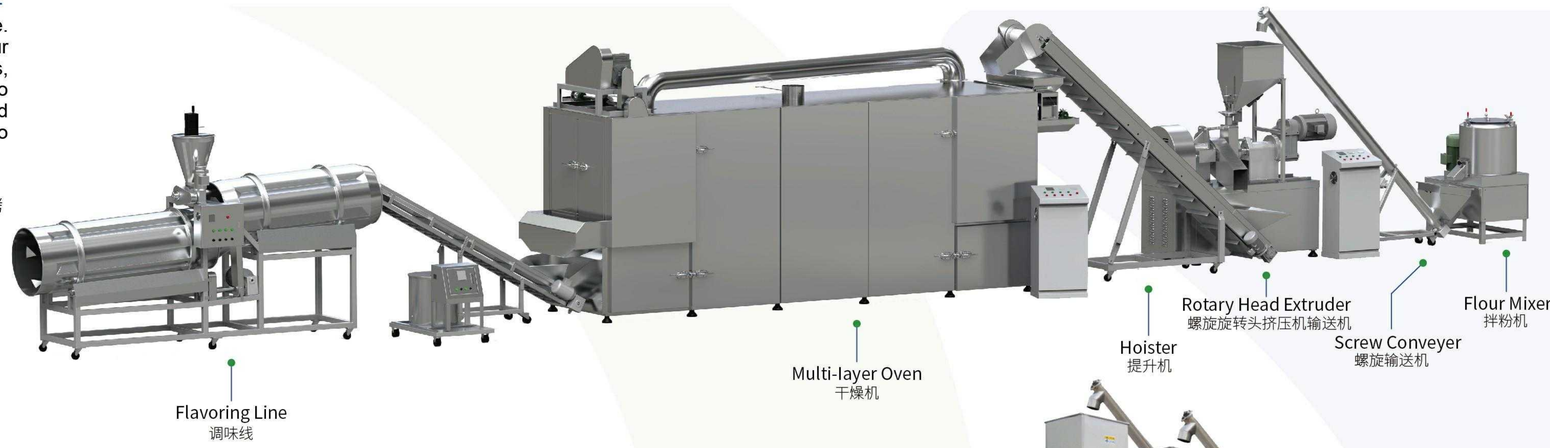
Introduction 设备介绍

Kurkure/ Cheetos are kind of special extruded snacks, very crunchy and delicious in taste. Theyare made by a special extrusion process. The corn grits are moisturized by water in the four mixerand fed to the Rotary Head Extruder. In the extruder, due to the rubbing of two rotary plates, the cormgrits are squeezed and twisted to curls shapes. The cutting knives can cut them into required lengthThe Kurkure/ Cheetos can be fried in fryer or toasted in oven and then cooled before flavoring Seasoning is sprayed onto their surface to get diferent delicious tastes. Due to their delicious tastesand nutrition, they are quite popular with consumers.

奇多是一种特殊的挤压型小食品，嚼在嘴里非常脆。玉米糁与一定比例的水分混合后进入旋转头挤压机中，在挤压机两个转盘的挤压与揉搓作用下，玉米糁形成不规则的扭曲形状，然后切刀将其切成所需长度的产品。奇多可以油炸后调味，也可焙烤后调味，因其美味而深受消费者欢迎.

BAKED kurkure

LTTS-IB/IIB	
Installed Power 装机功率	74kw/76kw
Power Consumption 实耗功率	52kw/53kw
Output 生产能力	125kg/h / 230kg/h



FRIED kurkure

LTTS-IF/IIF	
Installed Power 装机功率	134kw - 196kw
Power Consumption 实耗功率	94kw -147kw
Output 生产能力	125kg/h -460kg/h



Sample



01 Flour Mixer → 02 Screw Conveyer → 03 Rotary Head Extruder → 04 Hoister → Baked: Multi-layer Oven / Fried: Separate Drum → 06 Flavoring Line / Vibrate Feeder → 07 Continuous Fryer → 08 Vibrate de-oil Machine → 09 Flavoring Line

Corn Flakes / Breakfast Cereals Process Line

玉米片、早餐谷物生产线

Corn Flakes 玉米片












Breakfast Cereals 直切膨化












Co-extruded 夹心膨化












High Fiber Cereals 高纤维谷物









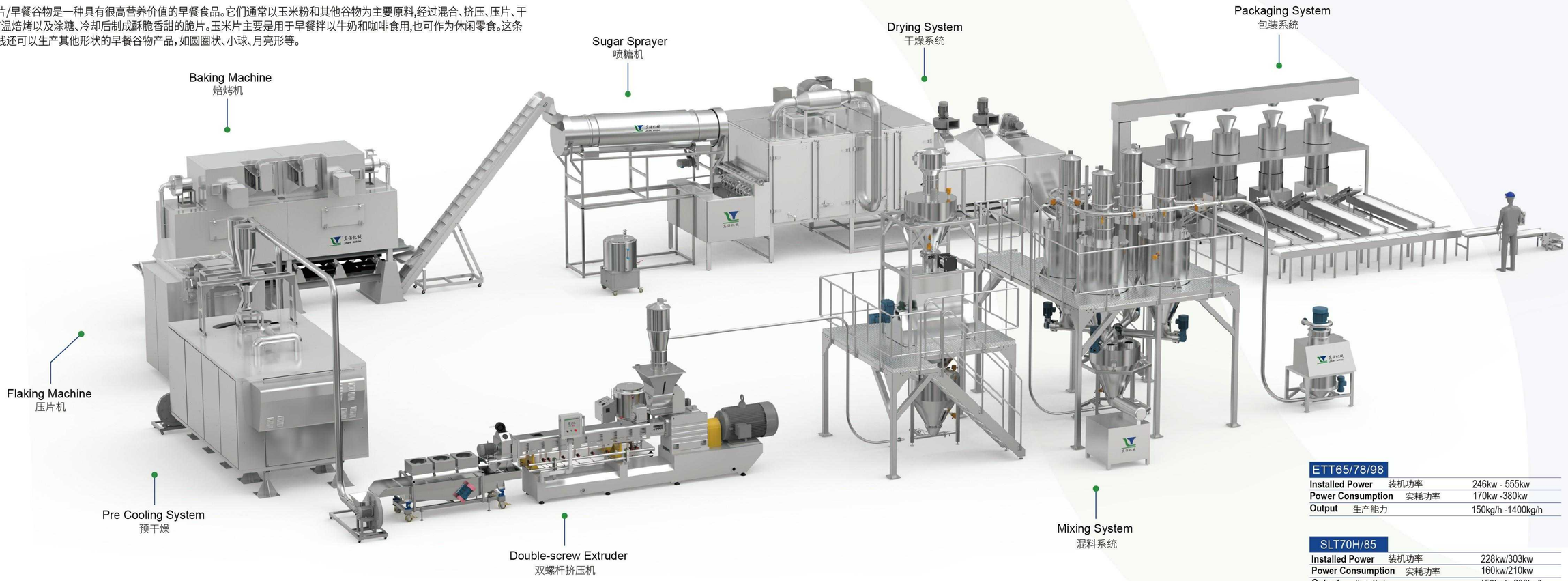



Corn Flakes /Breakfast Cereals Process Line
玉米片/早餐谷物生产线

Introduction 设备介绍

Corn flakes processing line can produce cor flakes,breakfast cereal which is one kind of nutrition-alconvenient food which is produced by this process line, using grains powder as basic material, withdifferent shapes, such as ball, star,flakes, ring, etc. One outstanding characteristic of thebreakfast cereal is that it contains abundant compound carbohydrates and dietary fibre,strengthens lots of microelements, such as vitamin and mineral., and also can be added withcocoaand sugar, like honey and maltose. It can be eaten directly after mixed into coffee.milk, yoghourt or functional drink.Children can eat breakfast cereal as sweet crispy snack.

玉米片/早餐谷物是一种具有很高营养价值的早餐食品。它们通常以玉米粉和其他谷物为主要原料,经过混合、挤压、压片、干燥、高温焙烤以及涂糖、冷却后制成酥脆香甜的脆片。玉米片主要是用于早餐拌以牛奶和咖啡食用,也可作为休闲零食。这条生产线还可以生产其他形状的早餐谷物产品,如圆圈状、小球、月亮形等。



ETT65/78/98

Installed Power	装机功率	246kw - 555kw
Power Consumption	实耗功率	170kw -380kw
Output	生产能力	150kg/h -1400kg/h

SLT70H/85

Installed Power	装机功率	228kw/303kw
Power Consumption	实耗功率	160kw/210kw
Output	生产能力	150kg/h-600kg/h

Sample



01 Mixing System
02 Double-screw Extruder
03 Pre Cooling System
04 Flaking Machine
05 Baking Machine
06 Sugar Sprayer
07 Drying System
08 Packaging System

2D/3D Snack Pellet Process Line
二次油炸零食生产线

Double Layer 3D Pellet 3D立体复合 Pellet



Die-cut 2D Pellet 直切2D Pellet



Multigrain Pellet, Tube / Chips 管 / 片 Pellet



Micropellet



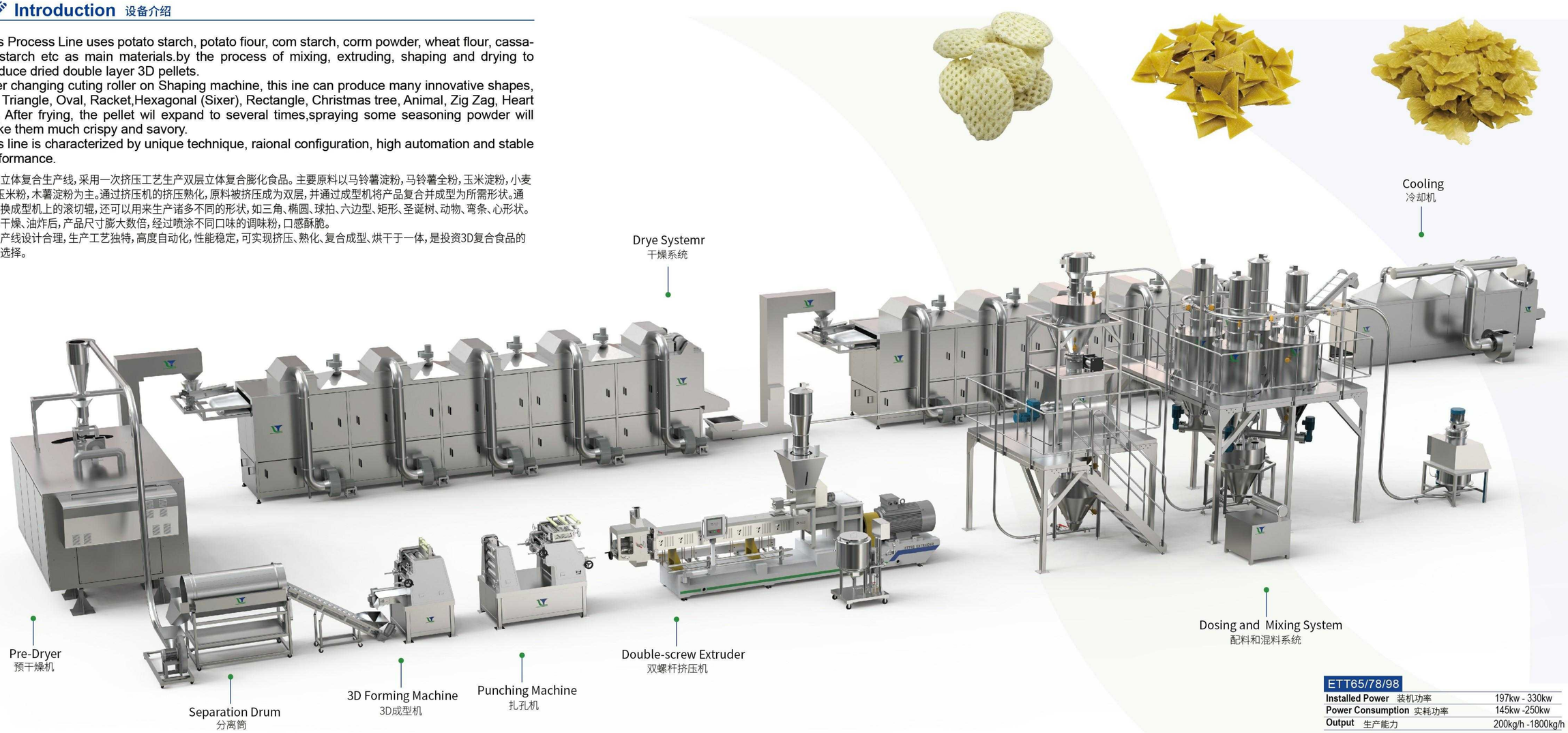
3D Pellet Snacks Process line

3D立体复合食品生产线

Introduction 设备介绍

This Process Line uses potato starch, potato fiour, com starch, corm powder, wheat flour, cassava starch etc as main materials.by the process of mixing, extruding, shaping and drying to produce dried double layer 3D pellets.
After changing cuting roller on Shaping machine, this ine can produce many innovative shapes, like Triangle, Oval, Racket,Hexagonal (Sixer), Rectangle, Christmas tree, Animal, Zig Zag, Heart etc. After frying, the pellet wil expand to several times,spraying some seasoning powder will make them much crispy and savory.
This line is characterized by unique technique, raional configuration, high automation and stable performance.

双层立体复合生产线，采用一次挤压工艺生产双层立体复合膨化食品。主要原料以马铃薯淀粉，马铃薯全粉，玉米淀粉，小麦粉，玉米粉，木薯淀粉为主。通过挤压机的挤压熟化，原料被挤压成为双层，并通过成型机将产品复合并成型为所需形状。通过更换成型机上的滚切辊，还可以用来生产诸多不同的形状，如三角、椭圆、球拍、六边型、矩形、圣诞树、动物、弯条、心形状。经过干燥、油炸后，产品尺寸膨大数倍，经过喷涂不同口味的调味粉，口感酥脆。
该生产线设计合理，生产工艺独特，高度自动化，性能稳定，可实现挤压、熟化、复合成型、烘干于一体，是投资3D复合食品的理想选择。



ETT65/78/98

Installed Power	装机功率	197kw - 330kw
Power Consumption	实耗功率	145kw -250kw
Output	生产能力	200kg/h -1800kg/h

Sample



01 Dosing and Mixing System
02 Double-screw Extruder
03 Punching Machine
04 3D Forming Machine
05 Separation Drum
06 Pre-Dryer
07 Dryers System
08 Cooling

2D Screw /Shell /Chips /Pellet Extruding & Frying Process Line 2D 螺旋/贝壳/豌豆脆/虾片挤压油炸食品生产线

Introduction 设备介绍

This process line mainly use potato starch/four, corn starch, cassava starch, wheat fiour as main materials, through mixingextruding, cuting and drying to produce various shapes pellets, like shel, screw, spiral, tube pellets, After oil frving and fiavoringwith diferent seasoning, these pellets wil become crispy and delicious snacks food. it has features of easy operation,combination fexible, simple maintenance, By changing the drying and frying machines, it can realize Semi-automatic or Ful.automatic process accordingly. By working with different shaping machine, can produce 3D pellets, waved chips, shrimp chips.

该生产线主要以马铃薯淀粉、玉米淀粉、木淀粉和面粉等为原料，经过单螺杆挤压机挤压熟化后，切断成各种形状的半成品胚料。通过更换不同的模具可以生产出贝壳、螺旋、管状、片状等立体和平面形状新颖的产品;再经过油炸膨化后，通过滚筒调味设备喷洒调味粉，即可成为香脆可口、味道鲜美的休闲食品。该生产线拥有易操作，搭配组合灵活，易维护等优点，客户可根据实际情况来选择半自动，全自动生产线。亦可以通过搭配不同的整形设备生产出3D、波纹片、虾片等膨化食品，深受消费者欢迎。



ETT65/78/98	
Installed Power 装机功率	142kw - 278kw
Power Consumption 实耗功率	107kw -225kw
Output 生产能力	200kg/h -1800kg/h



Sample





Prawn Cracker Production Line
虾片生产线



Cooking and Forming Extrusion System
胚料二次膨化类产品挤压机



01 Flour Mixer
02 Screw Conveyer
03 Extrusion System
04 Drawing and Cutting Machine
05 Cooling Machine
06 Drying Machine
07 Automatic Fryer
08 Flavoring Line

Extruded Instant Food Process Line

挤压即食食品生产线

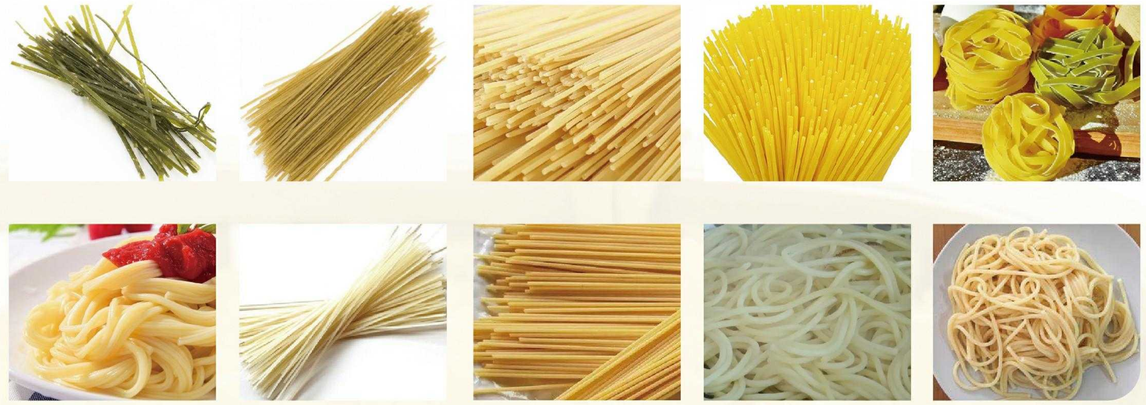
Fortified Rice / Nutrition Rice / Enriched Rice 强化大米 / 营养米 / 人造米



Instant Rice / Rice Porridge 冲泡米 / 米粥



Instant Noodles 方便即食面



PastaPasta 意大利面 / 通心粉

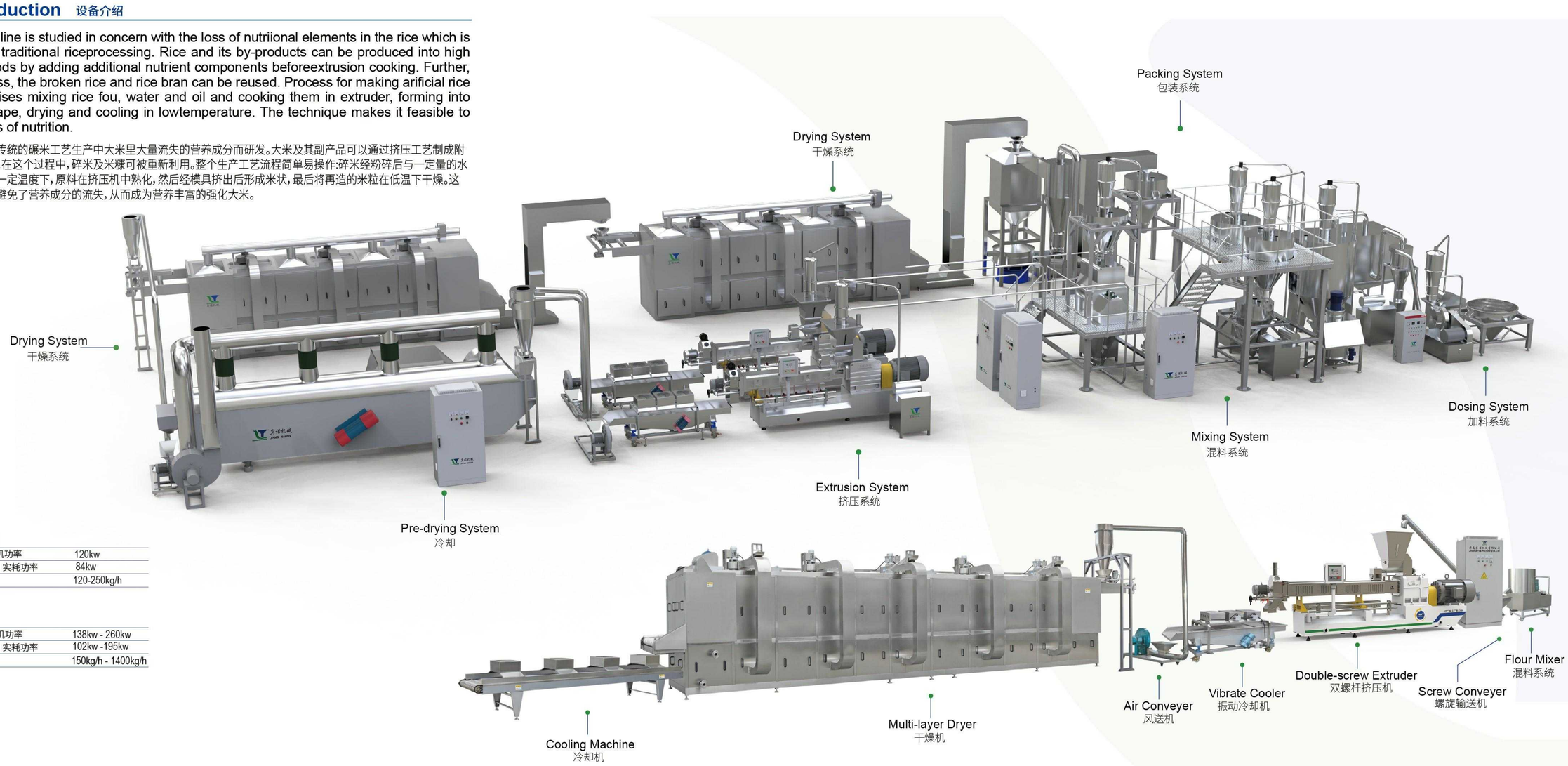


Fortified Rice /Nutrition Rice / Enriched Rice / Instant Rice Rice Porridge Process Line
强化大米/营养米/人造米/即食米/冲泡米/米粥生产线

Introduction 设备介绍

This process line is studied in concern with the loss of nutriional elements in the rice which is made by the traditional riceprocessing. Rice and its by-products can be produced into high nutritional foods by adding additional nutrient components beforeextrusion cooking. Further, by this process, the broken rice and rice bran can be reused. Process for making arificial rice grains,comprises mixing rice fou, water and oil and cooking them in extruder, forming into rice-grain shape, drying and cooling in lowtemperature. The technique makes it feasible to avoid the loss of nutrition.

该生产线是针对传统的碾米工艺生产中大米里大量流失的营养成分而研发。大米及其副产品可以通过挤压工艺制成附加值极高的产品。在这个过程中，碎米及米糠可被重新利用。整个生产工艺流程简单易操作:碎米经粉碎后与一定量的水分、油等混合，在一定温度下，原料在挤压机中熟化，然后经模具挤出后形成米状，最后将再造的米粒在低温下干燥。这一挤压技术有效避免了营养成分的流失，从而成为营养丰富的强化大米。



SLT70H

Installed Power 装机功率	120kw
Power Consumption 实耗功率	84kw
Output 生产能力	120-250kg/h

ETT65/78/98

Installed Power 装机功率	138kw - 260kw
Power Consumption 实耗功率	102kw -195kw
Output 生产能力	150kg/h - 1400kg/h

Sample



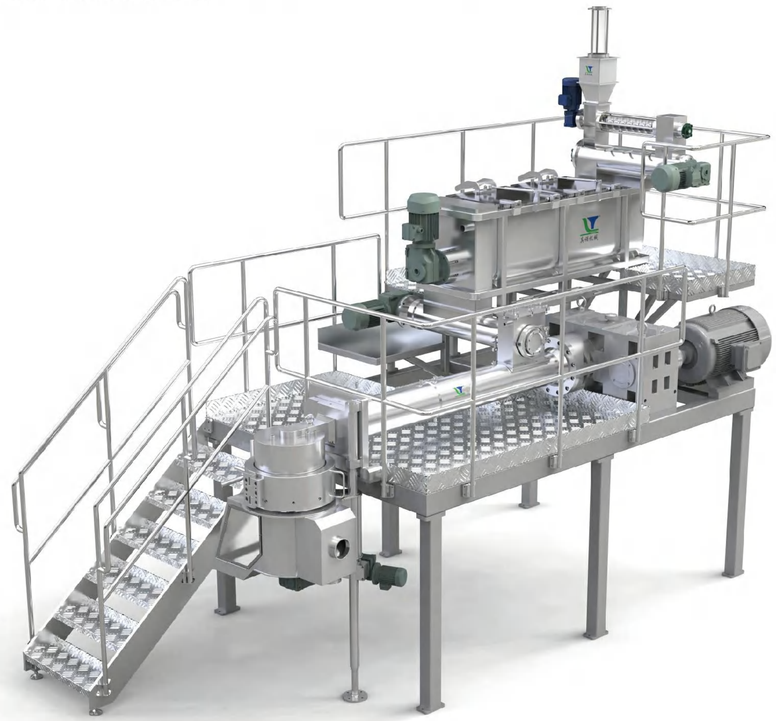
01 Dosing System
02 Mixing System
03 Extrusion System
04 Drying System
05 Packing System

Instant Noodles Process System
方便即食面生产系统

Introduction 设备介绍

Non-fried instant noodle is the new type instant noodles, which can avoid the high fats causedby traditional fried instant noodles, making non-fried instant noodles more healthy. ARROW non-fried instant noodle production line adopt the double screw extrusion cooking technology, bychanging molds and cutting machine, can make different shapes of cooked / semi-cooked ricenoodles, wheat noodles, multi-grain noodles and other products, with features of high level ofautomation,energy and space saving.

方便面、即食面是一种新型的非油炸冲泡速食面，可避免传统油炸方便面带来的高油脂，非油炸更健康。真诺非油炸速食面生产线利用双螺杆挤压机挤压熟化原理，通过变换模具和切断可作出不同形状的熟化/半熟化米线、面、杂粮面等产品;具有自动化程度高，节省能源，占地空间小等特点。



Sample







Healthy Fitness Snacks Process Line
健康食品生产线

Rice Cake / Popped Chips 爆米饼












Chocolate Oat Cereal Bar / Granola Bar 营养棒/蛋白棒












Rice Cake /Popped Chips Machine
爆米饼生产线

Introduction设备介绍

The rice cake machine is a new generation ofinstant small food machinedeveloped and produced on advanced technology.It can directly processextruded pellets, and natural cereals like quinoa, oats, brown rice, blackrice, rice, corn, etc. Rice cakemachine is compact and convenient in design,easy to operate. It is superior on the use and time, thickness, shape etc. Thema.chine can be used to produce pure natural green food without additivesand has broad market prospects.

爆米饼机是依托先进技术研发生产的新一代即食小食品设备。可以直接加工胚料、天然谷物,如藜麦、燕麦、糙米、黑米大米、玉米等。爆米饼机设计紧凑方便,操作简单,它在使用、时间、厚度、形状等方面更胜一筹。设备可以用来生产纯天然无添加的绿色食品,具有广阔的市场前景。

Model 型号		BMH200			BMH400		
Kole 孔		○ 8	○ 2	△ 12	○16	○ 4	△ 24
Product Size. 产品尺寸		Φ45	Φ100	45*45*45	Φ45	Φ100	45*45*45
Capacity 产量	PCS	3600-3840	800-1000	4500-4800	7200-7680	1600-2000	4500-4800
	KG/H	6-8	7-10	9-10	12-16	14-20	18-20
Machine size. 设备尺寸		660x785x1500mm			1450x1360X1900mm		
Power 功率		4.7KW			9.5KW		
Control method 控制方式		PLC			PLC		
Voltage 电源		220V/380V，50HZ			220V/380V，50HZ		







Sample











Chocolate Oat Cereal Bar /Granola Bar Process Line
营养棒生产线

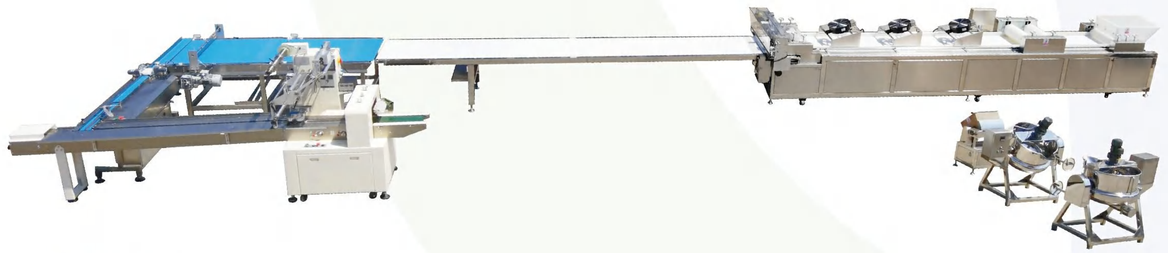
Introduction设备介绍

Cereals Bar Production Line is mainly composed of Sugar Heating Machine, Ingredient Mixer, Cutting Machine with cooling conveyor and Packaging Machine. And uses cereals, puffy balls, rice crispy, oat flakes, nuts and beans granules and vegetable dices and some combinations like syrup, maltose, honey etc, mixes them evenly and spreads them on the sheet, forms or cuts them into required shapes, like bar, round cake, cylinder, ball, bite-cube etc.
According to different ingredients and final shapes, the final products can be called different names in the market, such as cereal bars, oats bars, dates bar, protein bar, chewy bar, energy bar, sesame bites, peanut candy and so on.

谷物棒生产线主要由糖加热机、配料搅拌机、带冷却输送机的切割机和包装机组成。使用谷物、蓬松球、米脆、燕麦片、坚果、豆类颗粒和蔬菜丁以及糖浆、麦芽糖、蜂蜜等组合，将它们均匀混合并铺在生产线上，形成或切成所需的形状，如条状、圆饼、圆柱体、球形、小块等。
根据不同的成分和最终形状，最终产品在市场上可以称为不同的名称，例如谷物棒、燕麦棒、枣棒、蛋白质棒、耐嚼棒、能量棒、芝麻块、花生糖等。

LT-150L/600/680		
Power	功率	2.2kw
Output	生产能力	150-300kg/h





Sample











Potato Chips / Popcorn / Fried Snack Process Line

薯片、爆米花、油炸小吃生产线

Fried Fresh Potato / Cassava / Tapioca Chips 油炸新鲜薯片












Fried Dough Snacks 油炸面食












Popcorn Explosion 爆米花












Fried Snacks 料理油炸食品












Potato Chips / Popcorn / Fried Snack Process Line
油炸新鲜马铃薯片生产线

Introduction 设备介绍

This process line use fresh potato as raw material, through washing, peeling, slicing into chips, then frying, de-oling, fiavoringand cooling, final get potato chips products. This line is full automatic continous processing, easy operation.

该生产线以新鲜马铃薯为原料，经过清洗、去皮、切片、漂烫、油炸、脱油、调味和冷却等工序生产薯片产品。
该生产线完全实现自动化，操作简单。

Sample










01 Washing
02 Peeling
03 Slicing
04 Blanching
05 Draning
06 Frying
07 Flavoring
08 Cooling

Fried Dough Snacks Process Line
油炸面食生产线

Introduction 设备介绍

This process line uses wheat four as main materials, after making the dough, sheets the dough by compound rollers, and thenshapes the sheet into diferent shapes, After frying and flavoring, we can get crispy and savory snacks food. This line has featuresof continuous working,stable performance, and compact design.

该生产线将面粉等原料与水进行混合，通过多道压辊进行压制加工，采用特制切刀分切成不同的形状，并经过油炸使其膨化。油炸后再进行调味与烘干，即制成美味可口的休闲食品，该生产线设计合理、操作简单。

Sample



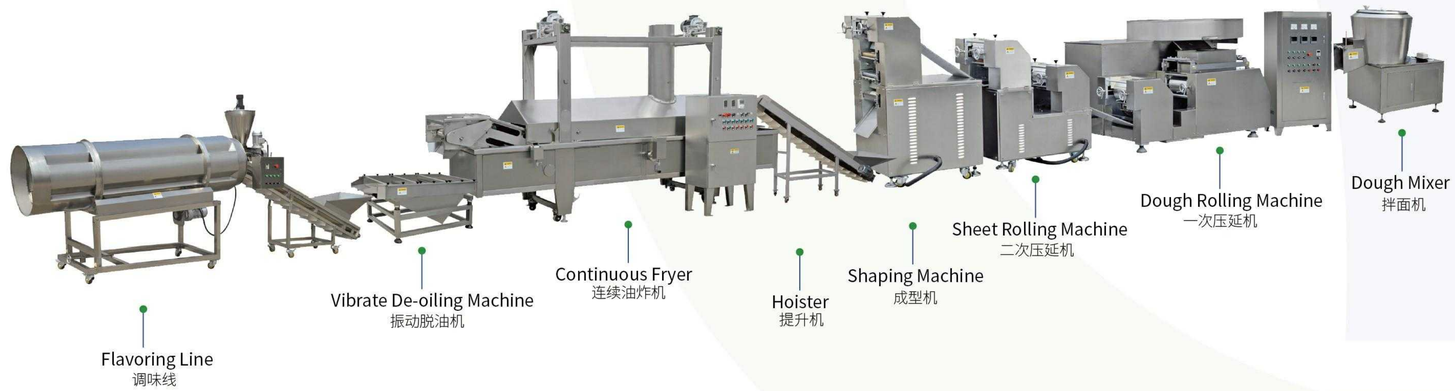



LTM-E (Electric Heating)

Installed Power	装机功率	60kw
Power Consumption	实耗功率	50kw
Output	生产能力	150kg/h -1200kg/h

LTM-G (Gas Heating)

Installed Power	装机功率	12L/H(Diesel)
Power Consumption	实耗功率	8-12L/H(Diesel)
Output	生产能力	150-200kg/h



01 Dough Mixer
02 Dough Rolling Machine
03 Sheet Rolling Machine
04 Shaping Machine
05 Hoister
06 Continuous Fryer
07 Vibrate De-oiling Machine
08 Flavoring Line

Automatic Continuous Savory Popcorn Process Line 自动连续型调味爆米花生产线

LTM-G (Gas Heating)	
Installed Power 装机功率	12L/H(Diesel)
Power Consumption 实耗功率	8-12L/H(Diesel)
Output 生产能力	150-200kg/h



Automatic Continuous Caramel Popcorn Process Line 自动连续型焦糖爆米花生产线

Introduction 设备介绍

Hot Air Popper is a kind of automatic continuous popcorn machine with high qualtly and advanced foreign technology. With the higttemperature, the corns are popped into mushroom popcom, butery popcorn etc. Then coated with caramel, buter, sugar syrup, chocolatesyrup etc, the popcorn will become feast both to eyes and to the tongue. Thus, the caramel popcorn gain popularty among people.

高温膨化机是一种自动连续型爆米花设备，采用国外先进技术设计而成，品质可靠。玉米在高温膨化机的高温作用下膨化成球形、蝶形爆米花等。然后喷涂黄油，糖浆，糖液，巧克力浆等，带给人视觉和味觉上的享受，因此广受欢迎。



Sample



01 Screw Conveyor
02 Hot Air Popper
03 Sifting Tumbler
04 Air Conveyer
05 Storage Tank
06 Sugar Cooker
07 Syrup PreparationTank
08 Coating Kettle
09 Collecting Conveyor
10 Cooling and Separating Machine

Fried Snacks Process System
油炸食品调理生产线

Introduction 设备介绍

This Fried Snacks Process System is specially designed for industrial use, including feeding system, continuous frying system,de-oiling system,flavoring system and cooling system.
So it is fuly automatic with high capacity and continuous process, which can avoid any workers mistake, and get the perfectfried food more precisely and efficiently.
It has widely applications, like puffed snacks, extruded pellets, dough snacks, beans, nuts, fresh vegetables, onions, potatochips, banana chips, plantain chips etc. For different food, we wil apply either single belt or double belt fryers.
And we also provide auxiliary machinery or services, like oil tanks, pumps, oil filters, pipes and programs etc, they will help tomonitor the oil level, feed oil automatically, filter oil, so as to save much more production cost.

该线是专为食品产品的油炸，脱油，调味及冷却工业化生产而设计的。它包括喂料系统，连续油炸系统，脱油系统，调味系统和冷却系统，具有自动化程度高，产量大，连续化生产等特点。最大程度的减少人为因素，以保障高效获得更优质的产品。
它适用范围广，可加工膨化食品，二次膨化胚料，面食类产品，豆类、坚果类产品，新鲜果蔬类产品等。根据不同产品特性，可配单层或者双层网带的油炸机。
同时公司提供相关配套设施，如油罐，油泵，滤油机，管路连接和程序操作等，可实现油位实时监控，自动补油，滤油等功能，以降低生产成本。





LTCF-300/400/500/650/800	
Drive Power 驱动功率	4.3-10kw
Heating Temperature 加热温度	＜250℃
Output 生产能力	100-1300kg/h


Pump 油泵


Vacuum Oil Filter 真空过滤机


Rotary Oil Filter 滚筒滤油机


Oil Tanks 油罐


Heat Exchanger Furnace 热交换炉



Sample






01 Vibrant Feeder
02 Continuous Belt Fryer
03 Vibrant De-oiling Machine
04 Single Drum Flavoring Machine
05 Cooling Conveyor

Nutrition & Ingredients Process Line

营养及原料、配料生产线

Panko / Granules Bread Crumbs 面包糠/颗粒糠












Flake crumbs / Puffed crumbs / Granular crumbs 片糠/膨化糠/颗粒糠












Nutrition Powder / Instant Powder / Baby Flour 速溶粉/营养粉/婴儿米粉












Multigrain High Fibre Powder / Pre-cooked Flour / Diet Powder Food

杂粮高纤维粉/预煮面粉/减肥粉食品







Modified Starch / Pre-gelatinized Starch / Stuffing Materials Foam / Eco Degradable Starch

变性淀粉 / 预糊化淀粉 / 填充材料泡沫 / 生态可降解淀粉







American-style Bread Crumbs /Panko Crumb Flakes Crumb Process Line 雪花片/针状面包糠/美式面包糠生产线

Introduction 设备介绍

This process line is researched and developed on the basis of international advanced technology. The performance and quality have reached the highest domestic level of the same line. The line changes the traditional process. From mixing materials, extruding.cuting, drying to finished products are done in one automatic line. The Extruded Bread Crumbs are light and crispy with innovative shapes (small rings, crescent, small stars, balls, granule etc),. They are widely used as food coating additives on the surface of frying food like: fried chicken, burger patty, sea foods (shrimp, fish), onion ring etc to obtain a very crispy and savory texture as well as unique and attractive fried foods' golden color presentation.

该生产线是基于先进的挤压技术设计而成的，其质量与运行均达到国内先进水平。生产线改变了传统面包糠的生产工艺。生产流程为拌料、挤压、切断、破碎、干燥全部自动化完成。面包糠广泛应用于食品添加辅料，用于裹涂在油炸食品表面，如:炸鸡肉、鸡翅，鸡腿，汉堡肉饼，海产品(虾、鱼肉)、洋葱圈等，使其色泽金黄诱人、味香酥脆、可口鲜美、营养丰富。

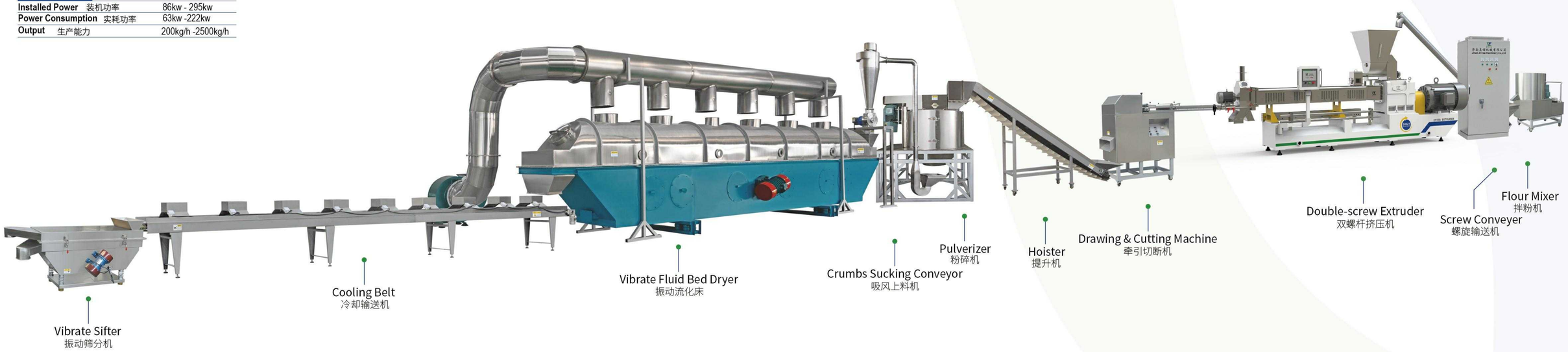
SLT68/70/85

Installed Power	装机功率	57.4kw - 131kw
Power Consumption	实耗功率	37kw -85kw
Output	生产能力	200kg/h -450kg/h

ETT65/78/98

Installed Power	装机功率	86kw - 295kw
Power Consumption	实耗功率	63kw -222kw
Output	生产能力	200kg/h -2500kg/h





Sample



01 Flour Mixer → 02 Screw Conveyer → 03 Double-screw Extruder → 04 Drawing & Cutting Machine → 05 Hoister → 06 Pulverizer → 07 Crumbs Sucking Conveyor → 08 Vibrate Fluid Bed Dryer → 09 Cooling Belt → 10 Vibrate Sifter

Nutrition Powder /Baby Rice Powder Modified Starch Process Line 营养粉/婴儿米粉/变性淀粉生产线

Introduction设备介绍

This process line uses rice, corn, beans and all kinds of grains as raw materials. Through extruding, infiating, drying, crushing andmixing, it could produce many kinds of nutrition powder, such as baby rice powder, sesame paste, beans powder and so on. This linecould finish all the process automatically from the feeding to the end. it has features of easy operation, without leak of powder dustsanitation, saving energy and easy to add all kinds of raw materials and nutriment.
Pre-gelatinized starch/Modified starch process line is specially designed for producing Denatured Starch, Modified Starch, PreGel Starch. Modified Starch is widely used in textile, food process, oil drilling, paper, construction industries etc.

该生产线以大米、玉米、豆类等各种谷物为原料，经挤压膨化、干燥、粉碎和混合，可生产各种营养粉，如婴儿米粉、芝麻糊和豆粉等。生产线从投料开始工艺流程自动完成，操作简单，无粉尘泄露，卫生节能。可方便地配以各种原料和营养素。
预糊化淀粉/变性淀粉生产线是专门设计用于生产多元化的变性淀粉，例如改性淀粉，预凝胶淀粉。变性淀粉广泛用于纺织，食品加工，石油钻探，造纸，建筑等行业。

ETT65/78/98	
Installed Power 装机功率	160kw - 384kw
Power Consumption 实耗功率	117kw -228kw
Output 生产能力	200kg/h -2500kg/h

SLT68/70/85	
Installed Power 装机功率	88kw - 257kw
Power Consumption 实耗功率	62kw -180kw
Output 生产能力	200kg/h -450kg/h





Ribbon Mixer
螺带混合机



Powder Packing Machine
粉剂包装机

Grinder System
粉碎机组

Multi-layer Oven
干燥机

Hoister
提升机

Double-screw Extruder
双螺杆挤压机

Screw Conveyer
螺旋输送机

Flour Mixer
拌粉机

Sample



01 Flour Mixer
02 Screw Conveyer
03 Double-screw Extruder
04 Hoister
05 Multi-layer Oven
06 Grinder System
07 Nutrients Mixing
08 Packing

Plant-Based & Vegetarian Food Process Line

干法蛋白和湿法蛋白生产线

Textured Vegetable Protein 干法蛋白






















High Moisture Meat Analogue 湿法蛋白






















Textured Soya Protein /Vegetarian Soya Meat Soya Nugget Food Process Line 组织蛋白/素肉食品生产线

Introduction 设备介绍

This process line is developed and manufactured on base of our experience combined with the advanced machines fromforeign countries. This line takes defatted soybean meal and peanut meal as main raw materials. After mixing, extruding, cutingand drying, the meal becomes layer fiber texture. The finished products have high protein; look and taste like meat; easy toabsorbing oil, water and flavor; without cholesterol and animal fat, so it is widely used in meat products industry, fast foodproduction, deep frozen food production, and all kinds of vegetarian snacks and food.

该生产线是我公司在多年挤压设备生产经验的基础上，结合国内外先进设备研发制的。生产线以脱脂豆粕、花生粕为主要原料，经搅拌、挤压剪切，形成层片纤维织织:其产品蛋白含量高，具有肉的状态和口感，有吸油，吸水，吸味的特点，不含胆固醇和动物脂肪。可广泛用于肉制品、快餐食品、速冻食品，也可制成各种素肉休闲食品和素食菜肴。

ETT65/78/98	
Installed Power 装机功率	120kw - 261kw
Power Consumption 实耗功率	75kw -183kw
Output 生产能力	200kg/h -1000kg/h



Wet Crusher
湿粉机











Cooling Belt
冷却输送机

Multi-layer Oven
干燥机

Hoister
提升机



Multi-function Shaper
整形机



Double-screw Extruder
双螺杆挤压机

Screw Conveyer
螺旋输送机

Flour Mixer
拌粉机

Sample









01 Flour Mixer
02 Screw Conveyer
03 Double-screw Extruder
04 Multi-function Shaper
05 Hoister
06 Multi-layer Oven
07 Cooling Belt

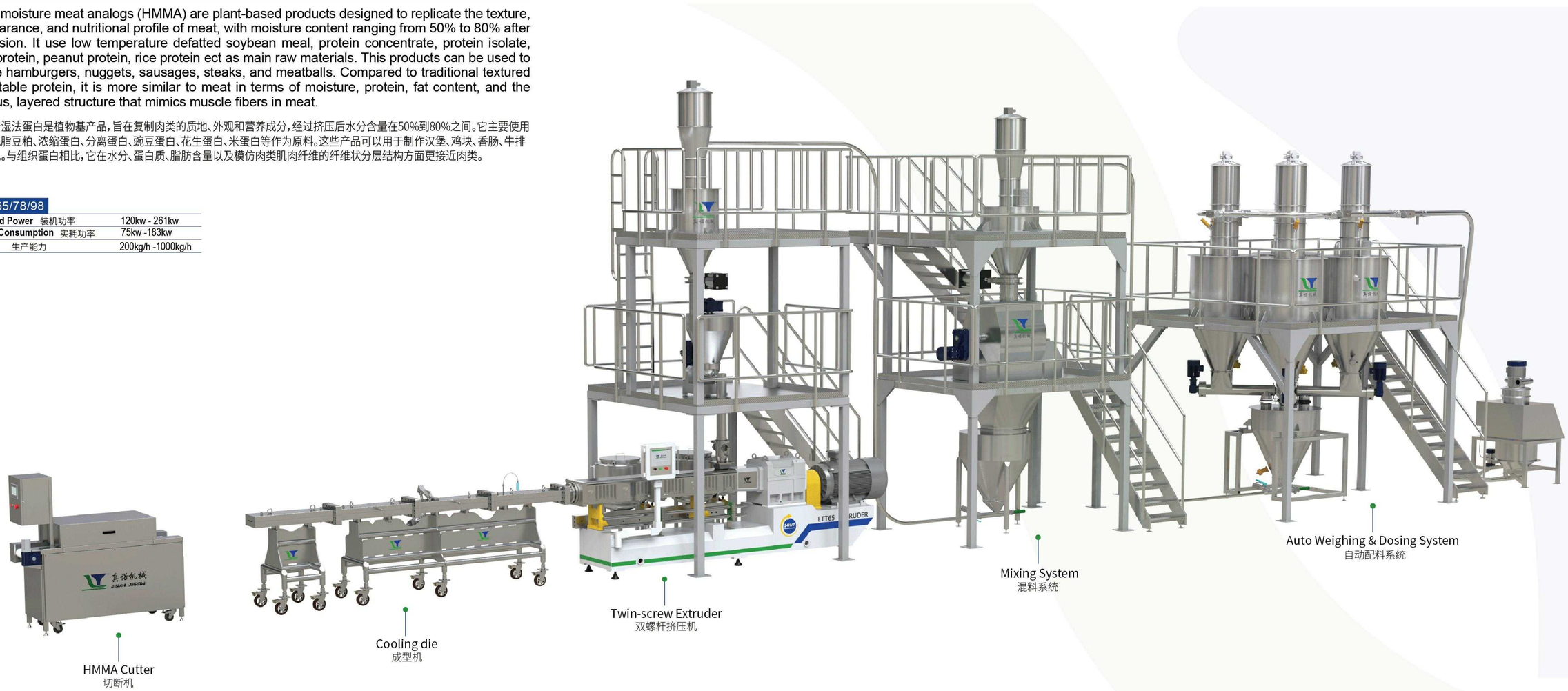
High moisture meat analogs Process Line
高水分湿法蛋白生产线

Introduction 设备介绍

High moisture meat analogs (HMMA) are plant-based products designed to replicate the texture, appearance, and nutritional profile of meat, with moisture content ranging from 50% to 80% after extrusion. It use low temperature defatted soybean meal, protein concentrate, protein isolate, pea protein, peanut protein, rice protein ect as main raw materials. This products can be used to make hamburgers, nuggets, sausages, steaks, and meatballs. Compared to traditional textured vegetable protein, it is more similar to meat in terms of moisture, protein, fat content, and the fibrous, layered structure that mimics muscle fibers in meat.

高水分湿法蛋白是植物基产品，旨在复制肉类的质地、外观和营养成分，经过挤压后水分含量在50%到80%之间。它主要使用低温脱脂豆粕、浓缩蛋白、分离蛋白、豌豆蛋白、花生蛋白、米蛋白等作为原料。这些产品可以用于制作汉堡、鸡块、香肠、牛排和肉丸。与组织蛋白相比，它在水分、蛋白质、脂肪含量以及模仿肉类肌肉纤维的纤维状分层结构方面更接近肉类。

ETT65/78/98	
Installed Power 装机功率	120kw - 261kw
Power Consumption 实耗功率	75kw -183kw
Output 生产能力	200kg/h -1000kg/h



Sample



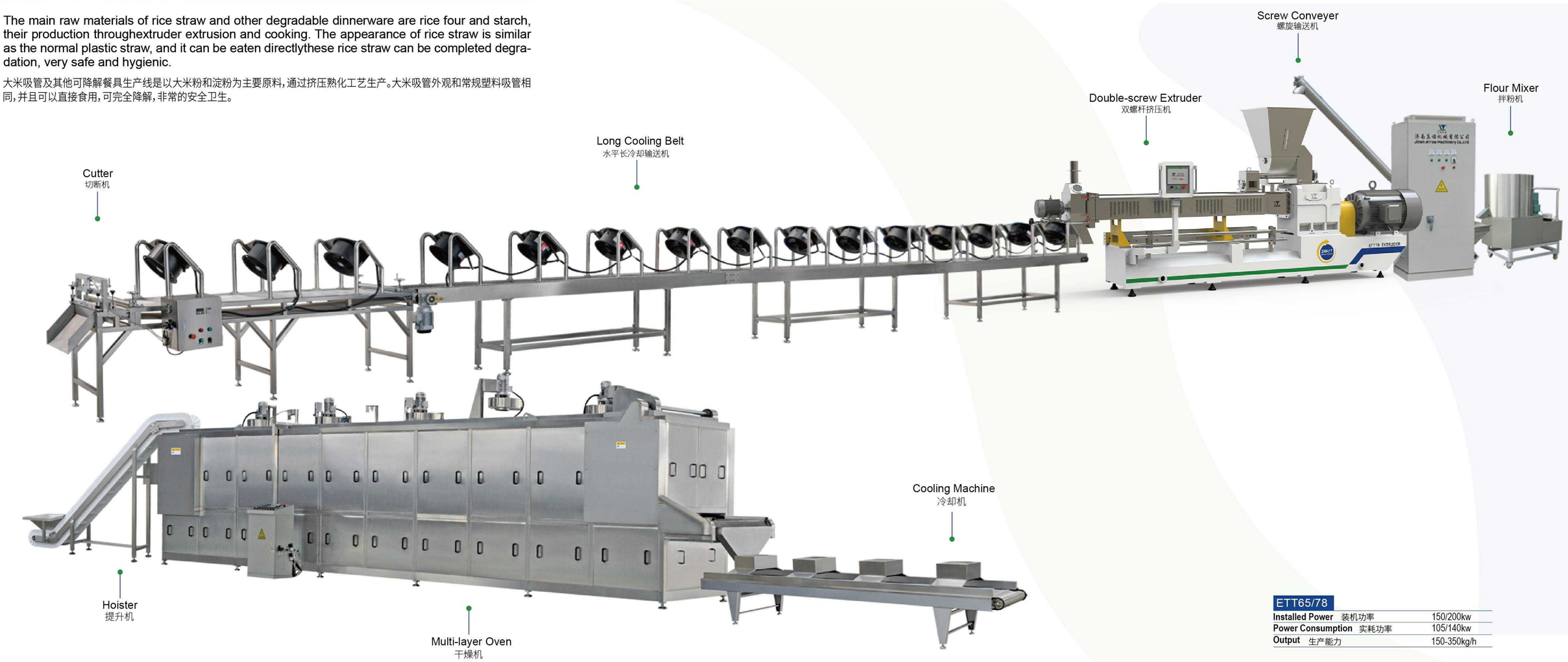
01 Auto Weighing & Dosing System
02 Mixing System
03 Twin-screw Extruder
04 Cooling die
05 HMMA Cutter

Extrusion Rice Straw Process Line
挤压可降解大米吸管生产线

Introduction 设备介绍

The main raw materials of rice straw and other degradable dinnerware are rice four and starch, their production throughextruder extrusion and cooking. The appearance of rice straw is similar as the normal plastic straw, and it can be eaten directlythese rice straw can be completed degradation, very safe and hygienic.

大米吸管及其他可降解餐具生产线是以大米粉和淀粉为主要原料，通过挤压熟化工艺生产。大米吸管外观和常规塑料吸管相同，并且可以直接食用，可完全降解，非常的安全卫生。



ETT65/78	
Installed Power 装机功率	150/200kw
Power Consumption 实耗功率	105/140kw
Output 生产能力	150-350kg/h

Sample

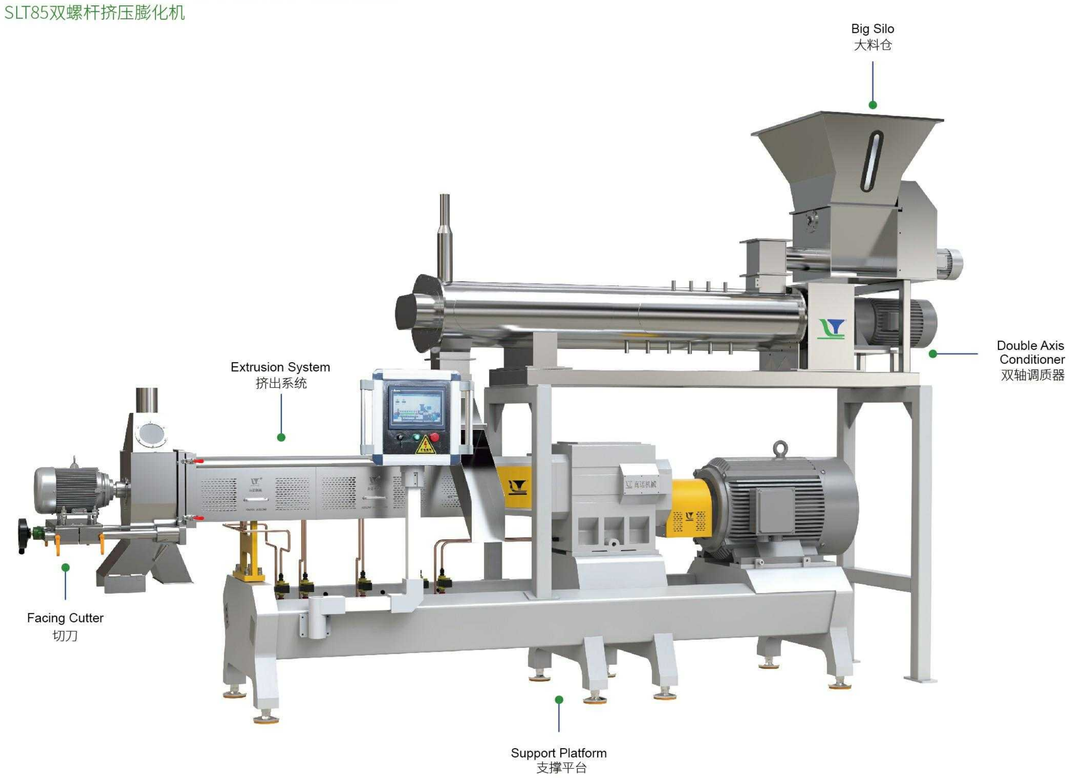





01 Flour Mixer
02 Screw Conveyer
03 Double-screw Extruder
04 Long Cooling Belt
05 Cutter
06 Hoister
07 Multi-layer Oven
08 Cooling Machine

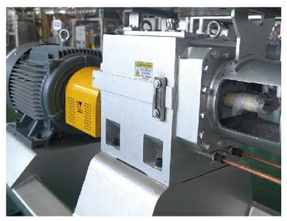
Series of Double Screw Extruder
系列双螺杆挤压膨化主机

SLT85
Whole Set of Double Screw Extruder
SLT85双螺杆挤压膨化机



	Main Drive Power 主电机功率	Output 生产能力	Size 外形尺寸
SLT85	98kw	500-700kg/h	4400x900x2200mm



SLT70H
Double-screw Extruder
SLT70H双螺杆挤压膨化机



SLT68D
Double-screw Extruder
SLT68D双螺杆挤压膨化机



ETT36
Double Screw Lab Extruder
ETT36实验双螺杆挤压膨化机



TS III
Advanced Rotary Head Extruder
TS III挤压膨化机

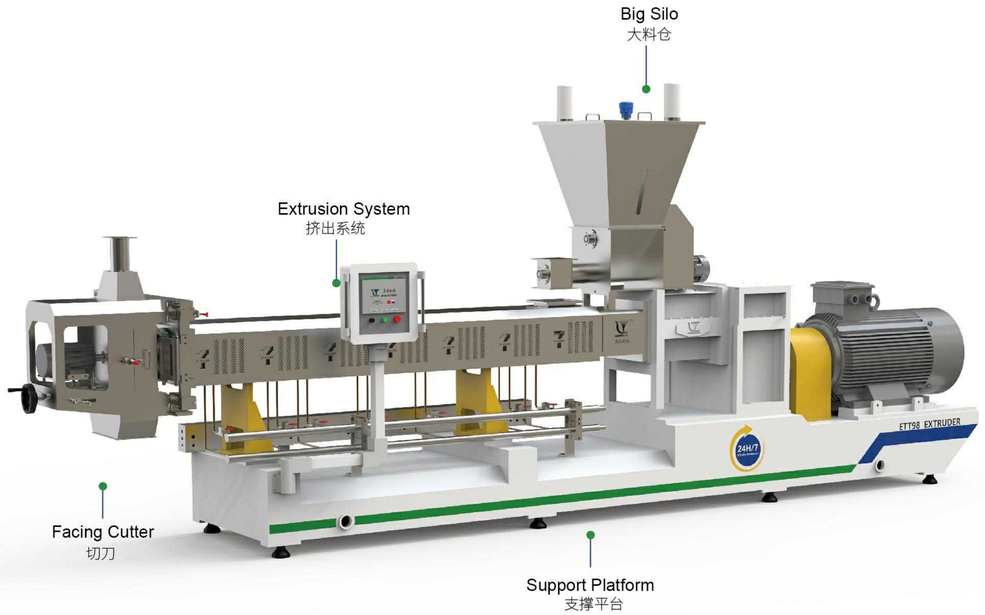


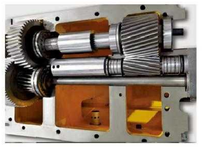
	Installed Power 装机功率	Main Drive Power 主电机功率	Output 生产能力	Size 外形尺寸	Applied Products 适用产品
SLT85	98kw	75kw	500-700kg/h	4400x900x2200mm	puffed snacks, corn flakes, breakfast cereals, etc. 膨化食品、玉米片、早餐谷物等
SLT70H	54/62kw	37/45kw	250-300kg/h	3600x800x2100mm	puffed snacks 膨化食品
SLT68D	43kw	30kw	150-200kg/h	3300x800x2100mm	fortified rice,puffed food, breakfast cereals, snacks 营养米、膨化食品、早餐谷物
ETT36	20kw	11kw	5-30kg/h	3120x730x1900mm	Kurkure /cheetos /Niknak 奇多/粟米条
TSIII	30kw	22kw	200-250kg/h	2200x1300x2600mm	

Fantastic Technology Double Screw Extruder 欧标双螺杆挤压膨化主机

ETT98-28D

Multi-functional Double Screw Extruder
ETT98多功能双螺杆挤压膨化机







- Stable Performance and Longer Using Lifeguaranteed by Top Grade Gear Box and Bearings.Automatic lubricating system,filtration system and cooling system;Gear box adopts alloy steel, bearing units are world-famous brands.
  专业的齿轮加工及箱体装配，自带冷却、润滑、过滤、系统的分配箱。
- PLC Touch screen, Max.24 recipes memory.
  触屏控制，最高可储存24组数据。
- Reliable Parts Supplier Partners: SIEMENSCHINA, OMRON, FUJI DELTA, LG
  电器件选用国外优秀品牌:西门子，欧姆龙，富士，台达，LG。
- Powerful Direct-Cutting System with LinearSlide Rail, available for high production.
  直线对头切，电机直连，切断强劲有力。



- Multi-functions for different Snacks Applications:
  ETT Series uses the odular Circular Groove Screws.
  螺杆可自由排列组合，以满足不同产品需求。



- Much Longer Using Life of Excellent Modular Screwsand Square Barrels.
  机筒衬套选用合金材料，使用寿命长。
- Different Heating Sources Options and LowMaintenance charge.
  螺不同的加热方式可供选择，维护成本低。

WTT80

New Triple Screws Extruder
WTT80新型三螺杆挤压机



ETT65-36D

Multi-functional Double Screw Extruder
ETT65多功能双螺杆挤压膨化机



ETT78-32D

Double Screw Extruder
ETT78双螺杆挤压膨化机



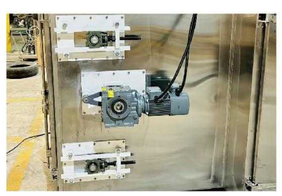
	Main Drive Power 主电机功率	Output 生产能力	Size 外形尺寸	Applied Products 适用产品
ETT65-20D	55kw	200-600kg/h	4300x950x1800mm	Applicable products: pellet snacks , puffed food, Corn flakes, breakfast cereals,fortified Rice, artificial rice, etc. 油炸膨化食品、膨化食品、玉米片、早餐谷物、营养米、人造米等
ETT65-36D	75kw	200-600kg/h	5300x950x1800mm	
ETT78-20D	75/90kw	300-1000kg/h	4700x1000x1700mm	
ETT98-28D	200/250kw	800-2500kg/h	6500x1500x1800mm	
WTT80	132kw	1000-1500kg/h	5500x1000x1600mm	

Cross Circulation Efficient Dryer
十字环流高效干燥机



- Widely used in feed, food and other industries aging stability and drying.
  广泛适用于饲料、食品行业的粒状、片状及条状等物料的干燥(稳定、冷却)处理。
- Adopt hot air circulation bi-directional cross flow method, equipping with moistureremoving fan, the wind direction forcibly penetrates the materials from top to bo-ttom and the hot air discharges the materials moisture.
  采用热风循环双向十字穿流方式，配合排湿风机风向自上而下强制穿透物料，热风排除物料水分。
- Effectively solve the bulking aquatic feed and pellet feed or food curing, drying,particles reach the ideal water resistance, improve grain appearance quality.
  有效解决膨化水产饲料和一般颗粒饲料或食品的熟化、烘干的难题，颗粒达到理想耐水性能，提高颗粒外观质量。
- Internal circulating hot air system, low energy consumption, low cost, good reli-ability.
  内循环热风系统，耗能低，成本小，可靠性好。
- Adjustable materials distributor and even distribution materials device make thematerials distribute more evenly, ensuring the homogeneity of the drying materials.
  与物料接触部分全为不锈钢制作，保证了产品的品质和设备耐腐蚀性。

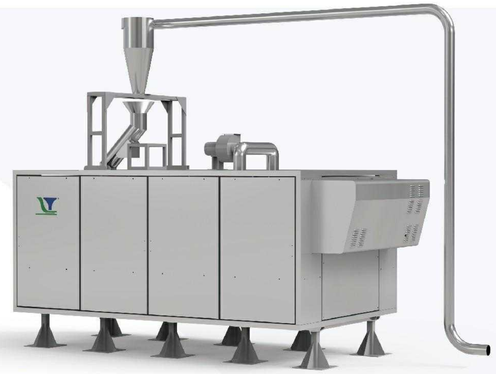





Series of Drying Machine/Dryer
系列干燥设备



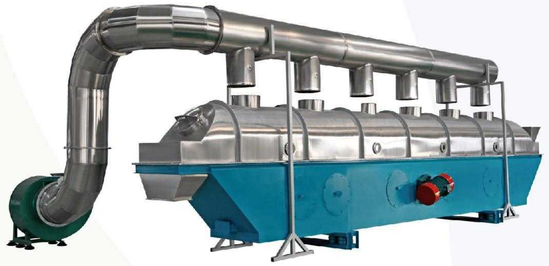
Jet Injection Hot Air Baking Oven
穿流焙烤机



Multi-Layer Vibrant Dryer
八层振动干燥机



Drum Dryer
滚筒干燥机



Vibrate Fluid Bed Dryer
振动流化床

	Optional Heating Sources 可选加热源	Heating temperature 加热温度	Output 生产能力	Size 外形尺寸	Applied Products 适用产品
LTM-10 Five-layers Ten Meter Dryer 五层十米烤箱	Electricity/Gas/ Diesel/Steam 电力/天然气/柴油/蒸汽	60~180°C	500kg/h	12000x1500x2600mm	Extruded Pellets, Nutrition rice, Fortified rice, Puffy, Corn Flakes & Breakfast Cereals, Pet Food, Nutritional Powder, Modified Starch etc 挤压油炸食品、营养米强化米、膨化食品、 膨化食品、玉米片、早餐谷物、宠物、营养粉、变性淀粉等
LTD-5 Five-layer Oven 五层烤箱		~180°C	250kg/h	5800x1300x2400mm	

Series of Oven /Roaster
系列烘烤设备/烤箱

Customized Roasting Solution
欧标分节烤箱定制方案



LTM-10Z
Five-layers Ten Meter Dryer
(Steam/Electric/Gas/Diesel heating)
五层十米烤箱(蒸汽/电/燃气/燃油加热)



LTA-7D
Five-Layer Electric/Gas Oven
五层七米外风循环烘干机



LTD-5G
Five-layer Gas/Diesel Oven
五层燃气/燃油烤箱



Series of Customized Roasting Drying Cooling Solution 系列定制烘烤、干燥、冷却方案



- This Series of Solution is custom designed to suit unique process andproducts features.
本系列主要根据客户需求和产品特性来设计符合客户要求的设备。
- It has features of fully welded, high air-proofness, high thermal efficiency, large output, high temperature-controlling accuracy, high automation, low energy consumption, low defects, and high sanitation owingto the special designed conveyor. Thanks to these unique advantages.this series are quite popular in european food process industry.
它同时具有密封性好，热效率高，产量大，温度控制精度高，自动化程度高，能耗小，故障率低等优点，特质输送带符合食品安全高标准，深受欧洲食品企业欢迎。
- It has wide range of operating temperature, so it can be a hot air baker/roaster, or can also be a low temperature dryer. It has enforced mois-ture exhausting function and is available for any heating source. It canalso be equipped with other optional auxiliary functions, like feeder, spreader, cooler, belt cleaning etc.
它温度控制范围大，可以是高温烘烤机亦可以是低温干燥机，具有强制排潮功能，多种加热方式任选，可选装布料，冷却，输送带清洗等功能。
- Depending on different products features, it can be single-pass, multi-stage and multi-pass with various length and width.
根据不同产品特性，可设计成单层或者多层，不同长度，不同宽度等。








Series of Flavoring Line Coating Line 系列调味/喷涂设备

LTS-II
Double-drum Flavoring Line
双滚筒调味线



Seasoning System
调味系统



LTS-I
Single-drum Flavoring Line
单滚筒调味线



LTS-BJ
Double Heads Rotary Seasoning Machine
双头八角筒



LTS-PT
Glazing Coating Line & Sugar/Slurry Tanks
滚筒喷涂线



LTS-BJ
Single Head Rotary Seasoning Machine
单头八角筒



	Installed Power 装机功率	Output 生产能力	Size 外形尺寸
LTS-II	9kw	200kg-1000kg/h	5000x1500x2000mm
LTS-I	3kw		3000x1000x1800mm
LTS-PT	20kw		6000x1800x2300mm
LTS-BJ	0.55kw		1000x1200x1700mm

Auxiliary Machinery
配线辅机



Bread Crumb Pulverizer
制屑机



Ribbon Mixer
螺带混合机

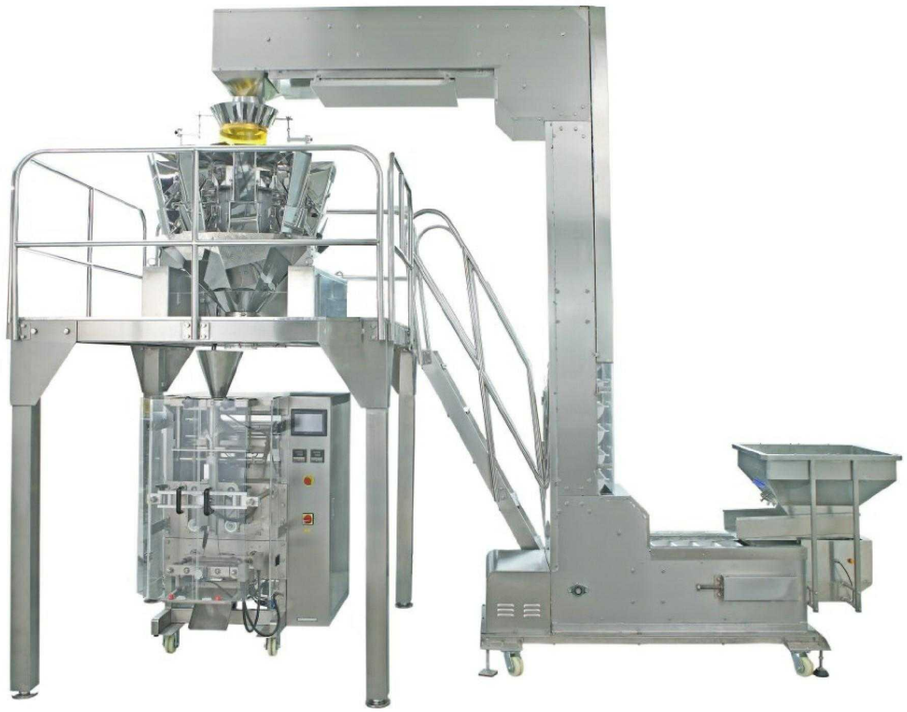


Compact Grinder with Dust-collector
粉碎除尘一体机



Wet Crusher
湿粉机

Series of Packing Machine
系列包装机



Large-sized Vertical Automatic Packing Machine Series
大型立式全自动包装机配套系列



Automatic Powder Packing Machine
自动粉末包装机



Volumetric Vertical Packing Machine
立式自动包装机



Bulk Packing Machine
电子定量包装秤



Pillow Packing Machine
枕式包装机

- Suitable to package fragile materials dem-anding high accuracy.
  适合要求计量精度高及易碎的散装物体包装。
- Complete the whole procedure of feeding,measuring, bagging, date printing, charging(exhausting), finished product outputting automatically.
  自动完成送料、计量、充填制袋、打印日期充气(排气)、输出等过程。
- High accuracy, high efficiency withoutcrashing the materials.
  计量精度高、效率高、不易碎料。

	LT-420	LT-520	LT-720
Capacity 最大包装速度	40-70bags/min	40-60bags/min	35-50bags/min
Bag Size 制袋尺寸	Width:60-200mm Length:60-300mm	Width:80-250mm Length:80-350mm	Width:140-350mm Length:1000-450mm
Power Source 电源类型	2.2kw 220V/50Hz	2.5kw 220V/50Hz	4.5kw 220V/50Hz
Machine Dimension 外形尺寸	1530x970x1600mm	1430x1200x1700mm	1780x1350x2050mm

Sample



Customer factory site
客户现场






















International Brand Electrical Components, To Ensure That The Eauipment Is Stable And Reliable

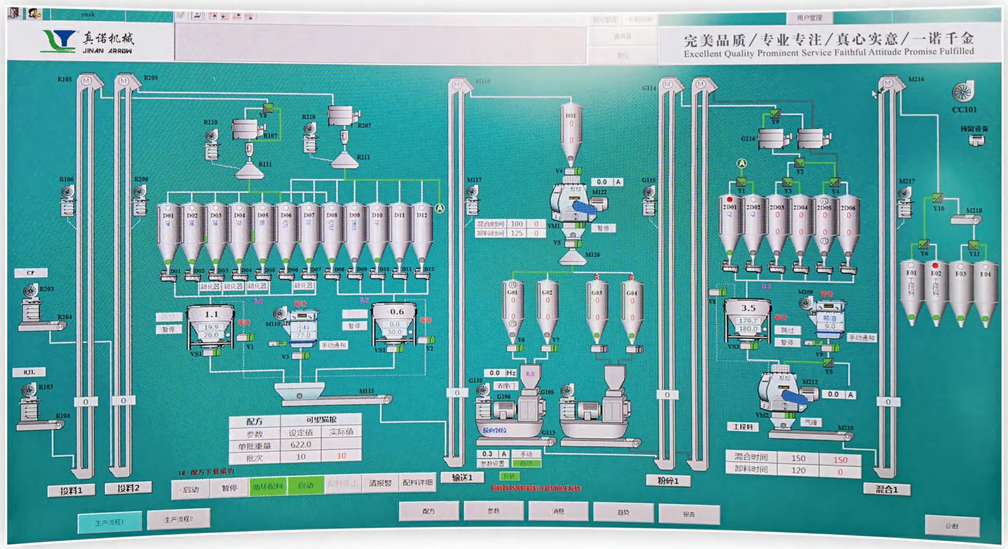
国际品牌电器元件·确保设备稳定可靠

ABB　NSK　baltur　MITSUBISHI ELECTRIC

SEW EURODRIVE　RIELLO　LS产电　Schneider Electric 施耐德电气

LG　SKF　DELTA　富士电机 Fuji Electric

HRB　INNOMOTICS　TIMKEN　SIEMENS





PROFESSIONAL SERVICE TEAM

PROFESSIONAL TEAM, PROFESSIONAL SERVICE, CREATIVITY AND BRILLIANT TOMORROW

After-sales Service Commitment 售后服务承诺

1. Provide production formula, installation, debugging, operator training services. Professional engineers provide machine installation, training, enterprise employees, solve problem, long time for machine maintenance.

2. Professional machine maintenance and services. The warranty time of machine and parts is 1 year. Long time maintenance service for spare parts, components.

3. Perfect product quality tracking system after sale. Establish a complete product quality tracking report for every customer, professional analyze, timely feedback.

4. To design and supply non-standard products according to the customer request.

5. For the sake of the global customer, we provide equipment and technology, raw material, packing, etc. Comprehensive consulting service, let customer worry-free truly.

1.提供生产配方、安装调试、操作培训等服务:专业工程师进行机器安装调试，培训企业员工熟练操作，解决机器运转遇到的问题，常年进行机器维护。

2.专业机器维修，保养服务:长久的零部件保修保养服务，终生优惠提供零部件，设备免费保修一年。

3.完善的客户产品质量追踪体系:对客户产品建立完整的售后质量追踪报告，专业分析，及时反馈。

4.可非标准化生产:根据客户要求，设计并供应非标准化产品，满足顾客特殊化需求。

5.立足全球客户需求:以“服务全球顾客”为宗旨，提供设备、工艺、原料、包装等方面的全方位咨询售后服务，真正做到让顾客无后顾之忧。



Jinan Arrow