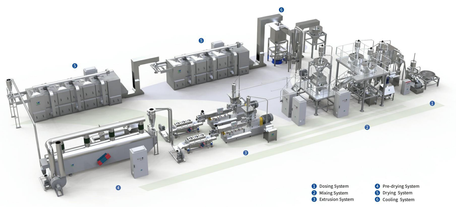
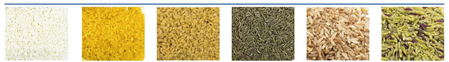
Fortified Rice /Nutrition Rice /Artificial Rice /Enriched Rice /Instant Rice /Rice Porridge Process Line



Introduction

This process line uses broken rice and rice flour as raw materials, with the option to add various nutrient components. Through extrusion, shaping, drying and cooling to create rice products with enhanced nutritional value. By this process, the broken rice and rice bran can be reused. The finished product is convenient, cost-effective, nutritional and has a long shelf life. It suitable for school lunches, convenience foods, and health-conscious consumers.

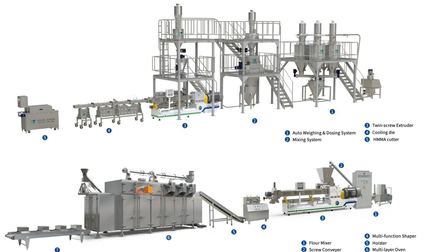
Sample



Technical Parameter

Extruder	Installed Power	Power Consumption	Output
ETT65	138kw	102kw	150-450kg/h
ETT78	180kw	135kw	650-800kg/h
ETT78×2	290kw	245kw	1300-1600kg/h
ETT78×3	400kw	355kw	1950-2400kg/h
ETT98	260kw	195kw	1200-1400kg/h
SLT70H	120kw	84kw	120-250kg/h

Textured Soya Protein /Vegetarian Soya Meat /Soya Nugget /High Moisture Meat Analogues Process Line



Introduction

Textured Soya Protein /High Moisture Meat Analogues Process Line use low temperature soybean meal, concentrated protein, isolated protein, pea protein, peanut protein, rice protein etc as main raw materials. After mixing, extruding, cutting, drying/cooling, to produce products with the texture and appearance of meat. The finished products have layer fiber texture, with meat chewy taste and can be shaped into various forms like chunks, strips, balls or granules. It is widely used in vegetarian snacks and food, meat substitute industries.

Sample



Technical Parameter

Extruder	Installed Power	Power Consumption	Output
ETT65	120kw	75kw	200-300kg/h
ETT78	183kw	128kw	300-500kg/h
ETT98	261kw	183kw	700-1000kg/h

Food and Snacks Extruder

LTTS-III Rotary Head Extrder



Main Features:

1.Designed for Large Capacity Output Mainly for kurkure and cheetos
2.Manual Head Gap Controlled by Mechanical Ratchet with Head Gap display
3.Accurate Speed display for rotor and feed screw
4.Speed Control of the Rotor and Feed Screw via the Inverter
5.Table Slides Rack via Handwheel Crank for Easy Adjustment of Feed Screw and Access to Extruder Components
6.PLC&HMI Intelligent Control

SLT Series
Advanced Double Screw Extruder



Main Features:

1. Heavy duty frame, easy cleaning and maintenance.
2. Innovative gear box with high torque, fast rotation speed, compatible to multi-grains ingredients.
3. PLC Touch Screen with visual operation, control all parameters in one page.
4. Square design barrel with more heating zones and much more accurate temperature controlling.

ETT Series
European Standard Twin Screw Extruder



Main Features:

1. Flexible screw combinations produce different types of products.
2. Stable performance and longer using life guaranteed by top grade gear box.
3. PLC Touch screen, easy operation, more data storage.
4. Each heating zone designed with water cooling, control temperature automatically.
5. Cutter direct connect motor, more powerful.

Dryer/Roaster

Cross Circulation Efficient Dryer



Main Features:

1. Widely used in feed, snacks food and other industries for drying.
2. Uses hot air circulation bi-directional to dry materials from top to bottom.
3. Internal circulating hot air system, low energy consumption, cost and high reliability.
4. Adjustable distributor and even distribution device ensure uniform material drying.

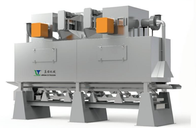
High Efficiency Dryer/Roaster



Main Features:

1.Custom-designed for different products, it can be single-pass, multi-stage, multi-pass in various lengths and widths.
2.Support steam, electric and gas heating methods, with optional auxiliary functions, like feeder, spreader, cooler, belt cleaning etc.
3.Features high air-proofness, thermal efficiency and automation, with precise temperature control, large output, low energy consumption, low defects.
4.Versatile with a wide range of operating temperatures, suitable for hot air baking/roasting or low-temperature drying.

Jet Injection Hot Air Baking Oven



The Toaster is a compact and energy efficient toaster ideal for breakfast cereals and similar lightweight products.
Less loss: The Toaster even and consistent toasting with minimum damage, while efficient dust extraction maintains product quality and reduces cleaning time.
Vibratory conveying: Heavy-duty vibratory conveyor accurately controls residence time for long term reliability and counterbalanced for minimum floor loading.
Air volume adjustment: Hundreds of hot air tubes are built in to impact the material with hot air of adjustable air volume. This ensures that the cereal flakes can be fully stirred during the baking process to produce perfect cereal flakes.

Multi-Layer Dryer



Low temperature type drying machine, it is mainly for products which need to be dried under lower temperature and long drying tim e, such as pellet snacks, fortified rice, nutrition rice, cereals, corn flakes and etc.
Product safety: Equipment contact with material part 304 stainless steel, the overall use of stainless steel insulation plate.
Drying efficiency: Equipped with multiple air circulation outlet, external circulation pipe, improve drying efficiency. The oven door filling material is filled with high temperature resistant heat insulation material, which has the characteristics of low thermal conductivity, reduces heat loss and improves drying efficiency.
Easy to clean: Gusset style, each outer cover is easy to disassemble and easy to clean.

Food Extrusion

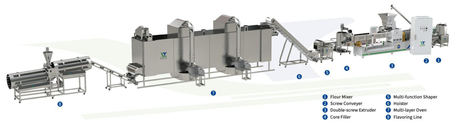
Focus on manufacturing and R&D

Excellent Quality Prominent Service
Faithful Attitude Promise Fulfilled

CE SGS BQB IAF

真诺机械 JINAN ARROW

Core Filling /Puffing Snacks Process Line

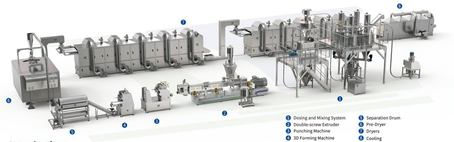


Introduction:
This process line uses corn flour, rice flour, wheat flour, which are puffed in the extruder. Then cut into the required shape, such as curve, ball, triangle, ring etc. By changing the cutter and mold, it can easily realize the production of core-filled snacks, puff snacks and other products, providing more diversified choices for the market. The equipment can produce a variety of products, suitable for various food factories.

Sample



2D/3D Snacks Pellet Process Line

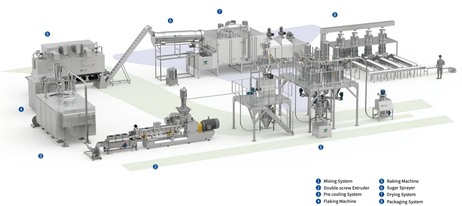


Introduction:
This process line uses potato starch, potato flour, corn starch, corn powder, wheat flour, cassava starch etc as main materials, by the process of mixing, extruding, shaping and drying to produce 2D, 3D, layered chips pellets. After changing cutting roller on shaping machine, this line can produce many innovative shapes, like Triangle, Oval, Racket, Hexagonal), Rectangle, Christmas tree, Animal, Zig Zag, Heart etc. After frying, the pellet will expand to several times, spraying some seasoning powder will make them much crispy and savory.

Sample



Corn Flakes /Breakfast Cereals Process Line



Introduction
This process line uses corn flour and other cereals flour as main raw materials to produce various products through etruding, baking, coating and drying. Corn flakes are a versatile food that is suitable for both breakfast and snacks foods. Healthier than traditional processes through extrusion technology. By changing the mold, breakfast cereal products of various shapes can be produced, such as round, small balls, moon shapes etc., enriching the variety of breakfast cereal products.

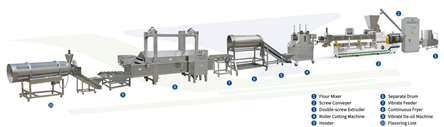
Sample



Technical Parameter

Extruder	Installed Power	Power Consumption	Output
ETT65	246kw	170kw	200-600kg/h
ETT78	437kw	300kw	500-1000kg/h
ETT98	555kw	380kw	800-2000kg/h
SLT70H	228kw	160kw	150-350kg/h
SLT85	303kw	210kw	300-600kg/h

Doritos/Tortilla/Fried Stix/Wavy Chips/Bulges Process Line



Introduction:
This process line uses corn flour, water, vegetable oil, salt and other raw materials to produce Doritos/Tortilla/ Wavy Chips/Bugles. The production line integrates extrusion, forming, frying or baking. By changing the mold, it can produce triangles, round, diamonds and other shapes. It is deeply loved by consumers for its unique shape, crispy taste and convenient eating.

Sample



Kurkure/Cheetos/Niknak/Corn Curls Process Line



Introduction:
This process line is specially used for producing extruded snacks such as Kurkure, Cheetos, which are very crispy and delicious in taste. Corn grits are mixed with a certain proportion of water and through extrusion, frying or baking, flavoring to produce a variety of flavors to meet the taste requirements of different consumers.

Sample



Nutrition Powder /Baby Rice Powder/Modified Starch Process Line

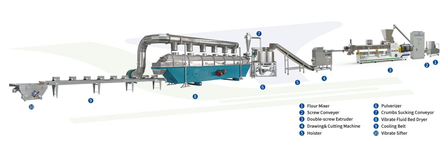


Introduction:
This process line uses rice, corn, beans and other raw materials to produce various nutritional powders such as baby rice flour, sesame paste and bean flour through extruding, drying, crushing and mixing. After packing, the products are easy to carry and eat, suitable for consumers of all ages and fast-paced lives. Its applications include infant nutrition and food fortification, meeting diverse market demands.

Sample

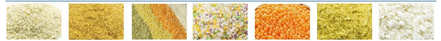


Granules Bread Crumbs /Panko Crumb /Flakes Crumb Process Line



Introduction:
This process line is a fully automated one that integrates mixing, extruding, cutting, and drying. By adding flour, starch and other raw materials, bread crumbs can be produced for coating fried chicken, chicken wings, chicken legs, hamburger patties, seafood (fish, shrimp), onion rings and other fried foods to obtain a very crispy and savory texture. Widely used in food coating additives.

Sample



About us

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 intelligent 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 Fulfilled" all the time, and now developed into the leading food extrusion manufacturer.
With development of more than 19 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 30 years experiences in this industry, got CE, ISO9001 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.



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