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.

EFFICIENT DRYER



1. This Series of Solution is custom designed to suit unique process andproducts features.
2. 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.
3. 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.
4. Depending on different products features, it can be single-pass, multi-stage and multi-pass with various length and width.

TOASTER



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.

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 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 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, 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.



+8615169106317
www.znmachinery.com
arrow@znmachinery.com
No.7287, Airport Road, High-tech Economic Development Zone, Jinan, Shandong, China

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PUFF SNACKS /CORE FILLING PROCESS LINE



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

Technical Parameter

Model	Installed Power	Power Consumption	Output
SLT68/70/85	84 -239kw	59 -167kw	150-500kg/h
ETT65/78/98	150 - 295kw	110 -222kw	200-2500kg/h

Description

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.

Sample



CRISPY CHIPS /BUGLES /STICKS /PROCESS LINE



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

Technical Parameter

Model	Installed Power	Power Consumption	Output
SLT68/70/85	84 -239kw	59 -167kw	150-500kg/h
ETT65/78/98	150 - 295kw	110 -222kw	200 -2500kg/h

Description

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 flour 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.

Sample



DORITOS /TORTILLA /CORN CHIPS /PROCESS LINE



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

Technical Parameter

Model	Installed Power	Power Consumption	Output
SLT68/70/85	143 -232kw	100 -174kw	150-500kg/h
ETT65/78/98	205 - 368kw	149 -276kw	200 -2500kg/h

Description

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.

Sample



KURKURE /CHEETOS /NIKNAK /CORN CURLS PROCESS LINE



01 Flour Mixer → 02 Screw Conveyer → 03 Rotary Head Extruder → 04 Hoister → 05 Multi-layer Oven (Baked) / Separate Drum (Fried) → 06 Flavoring Line / Vibrate Feeder → 07 Continuous Fryer → 08 Vibrate de-oil Machine → 09 Flavoring Line

Technical Parameter

Model	Installed Power	Power Consumption	Output
LTTS-IB/IIB	74kw/76kw	52kw/53kw	125kg/h / 230kg/h
LTTS-IF/IIF	134 - 196kw	94 -147kw	125 - 460kg/h

Description

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.

Sample

