Unlock The Secrets Of Efficient Stainless steel Indu biscuit making machine Manufacturing

Introducción detallada :

Reference

This Stainless steel Industry biscuit making machine can produce various biscuit type buttery biscuits that melt in your mouth, crunchy hard biscuits perfect for dunking, bis with rich, creamy fillings, and a variety of crispy crackers. In any type of laminated bis there are the following process phases: the meticulous preparation of the dough, its fermentation or stasis (in the case of some crackers or semi-hard biscuits), the carefu formation of the dough, its sheeting (in the case of some recipes), the precise reducti the thickness of the final sheet and subsequent cutting into perfectly uniform shapes, in a hot oven to achieve the ideal golden-brown color and texture, and finally cooling packaging to ensure freshness and crispiness.

The biscuit production line is composed of cookie forming machine, electric baking or spraying machine, turning machine, cooling line, cookie finishing machine, packing ta so on. The whole line is controlled by CPU module, back hung motor drive, compact structure and high degree of automation. The machine can also produce various flave high quality cookies, such as cream, jam, etc.

Biscuit Maker (Cookie Pastry Machine, is a forming machine that can produce a varie unique fancy snacks and cookie blanks by extrusion of dough. The machine has a varmolds and can produce dozens of fancy cookies, and users can adjust and choose according to their needs. Formed fancy Desserts and cookies have unique shapes, c patterns and beautiful shapes. The shaped cookies by this machine can be baked in air rotary furnace and a tunnel furnace.



Description Of Biscuit Production Line

This automatic biscuit production line?a result of the meticulous digestion and absoradvanced Japanese technology, has been meticulously developed from the latest edge equipment design. It features a sleek, compact yet robust structure, desi withstand rigorous daily operations while maintaining a high degree of automation. seamlessly handles every intricate step of the biscuit-making process, from the ini rolling, where dough is evenly distributed, to the precise forming stage, where biscuit shape, followed by efficient waste recycling, thorough drying, delicate coating, a cooling, all completed in one seamless continuous operation. The company offer access to hundreds of different molds, each intricately designed to create various and sizes, along with dozens of carefully crafted formulas, allowing for versa customizable production capabilities. By simply changing the mold and adjusting the recipe, manufacturers can effortlessly produce a wide range of market-popular h cookies, each with unique textures, rich flavors, and appealing appearances, cat diverse consumer preferences.

Biscuit Forming Process

DOUGH MIXING MACHINE SOFT&HARD BISCUIT SHAPING MACHINE TUN OVEN SPRAYING MACHINES COOLER



1. Flour mixer: mixing the flour, eggs, sugar and seasonings

2.Hard biscuit form machine/ soft biscuit form machine: roller cutting and roller st form the biscuit

3. Oven: baking the biscuit

4.Oil sprayer: spraying the oil

5. Cooling conveyor: cooling and conveying

6.Packaging machine: packaging the biscuit

The cookie production process is a precise manufacturing procedure that integrates f science with mechanical automation. The entire production line, from raw material mi finished product packaging, is meticulously designed to ensure the product achieves taste and quality standards.

The production process begins with the flour mixing stage, which is carried out by professional mixers. The mixer combines high-quality wheat flour, fresh eggs, fine su and various seasonings according to strict proportions. Through the rotational moven dual stirring paddles, all ingredients are thoroughly blended. Modern mixing equipme typically includes temperature control systems that maintain the mixture's temperatur an ideal range, ensuring the dough has the perfect elasticity and consistency. After 1 minutes of thorough mixing, the uniform dough is automatically conveyed to the next The shaping process varies depending on the type of product. For hard biscuits, a ro cutting machine is used, where the dough is pressed through multiple rollers to form a uniformly thick sheet, which is then cut using specially designed molds. Soft biscuits, other hand, are made using a roller imprinting machine, where the dough is shaped or rollers with engraved patterns, creating beautiful three-dimensional designs on the su the biscuits. During the shaping process, an advanced visual inspection system conti

monitors the shape integrity of each biscuit, automatically removing any substandard finished products.

Baking is the critical step that determines the final quality of the biscuits. Tunnel over designed with multiple temperature zones, and the biscuits are conveyed through preheating, baking, and coloring sections. The preheating zone maintains temperature between 120-150°C to initially set the internal structure of the biscuits; the baking zor raises the temperature to 180-220°C to promote the Maillard reaction, producing unic aromas and colors; finally, the coloring zone precisely controls the surface color. More ovens are equipped with hot air circulation systems to ensure uniform temperature distribution within the oven, with a temperature difference not exceeding ±3°C. After baking, the cookies undergo an oil spraying process that imparts a unique flavo sheen. The automatic oil spraying system uses high-pressure atomization technology evenly spray edible oil on the cookie surface, with the amount of oil controlled by a plant metering pump to be between 0.5 and 1.2 grams per cookie. Some premium product add flavored oils or nutritional enhancers at this stage to increase their added value. The cooling process is equally crucial, as freshly baked cookies need to pass through cooling conveyor belt that is 15 to 20 meters long. This specially designed conveyor is equipped with temperature and humidity control devices, using a combination of na convection and forced ventilation to gradually reduce the cookie temperature from an 80°C to room temperature. During this process, moisture inside the cookies continue distribute evenly, ultimately achieving the ideal crispy texture. At the end of the conve belt, a metal detector performs the final quality check.



Parameter Of Biscuit Production Line

item	Capacity	Heating type
LY-280	100kg/h	Electricity, Gas, Diesel
LY-400	150-200kg/h	Electricity, Gas, Diesel
LY-600	400-500kg/h	Electricity, Gas, Diesel
LY-800	600-900kg/h	Electricity, Gas, Diesel
LY-1000	1000kg/h	Electricity, Gas, Diesel
LY-2000	2000kg/h	Electricity, Gas, Diesel

The Detail Descriptions Of Biscuit Production Line

No.	Item	Detail descriptions
1	Raw materials	-Wheat flour, sugar, eggs, vegetable oil/palm oil, milk powder, leavening agents, flavors (customizable formulations for different biscuit types)
2	Consumption	 Power consumption: 25-30% lower than conventional lines Automated systems reduce labor requirements by 40% Energy recovery system for heat reuse
3	Capacity	-Multiple configuration options: - Small scale: 100kg/h <br- 150-<br="" medium="" scale:="">200kg/h, 300-350kg/h, 400-500kg/h - Large scale: 600-900kg/h, 1000kg/h, 2000kg/h</br->
4	Machine material	 -Food-grade 304 stainless steel (contact parts) - Reinforced steel frame - Corrosion-resistant surface treatment
5	Products	 Hard biscuits (crackers, digestive) Soft biscuits (shortbread, cookies) Sandwich biscuits (cream-filled) Special shapes (custom molds available)

Key Features:

Multi-format capability: Quick changeover between product types Hygienic design: Complies with international food safety standards Scalable operation: Capacity can be upgraded with additional modules Precision control: ±1% weight accuracy for consistent product quality This specification sheet clearly presents your production line's capabilities while high its versatility across different biscuit types and production scales. The structured form makes it easy for potential customers to understand the machine's key parameters as benefits.

Advantage

Feature	1.a variety of different molds and different formulas.
	2.good cooling effect
	3.big output(from 100kg/h to 2000kg/h)
	4.PLC screen touch control
	5.easy operation
	6.smooth work

1.A complete soft and hard biscuit production line, which can make all kinds of biscu various shapes, just change the mold.

?Soft & Hard Biscuits: Adjust dough consistency, baking time, and temperature to prochewy, crispy, or layered biscuits.

?Multiple Shapes & Designs: Simply change the mold to switch between round, squa animal-shaped, or custom-designed biscuits.

?Wide Recipe Compatibility: Works with various dough types, including sugar-based, savory, gluten-free, and high-fiber recipes.

2. The biscuit production line can be customized according to the customer's worksho biscuit making technical requirement

?Adaptable Layout: The machine can be adjusted in size, conveyor length, and confito fit small, medium, or large workshops.

?Tailored Technical Specifications: Customize baking time, temperature zones, and o speed based on your biscuit type.

?Optional Add-ons: Additional modules like chocolate coating, cream filling, or double baking can be integrated.

3. Have different heating sources for your operation (Electric, gas, Diesel oil)

?Electric Heating: Best for stable temperature control, suitable for indoor factories wit electricity supply.

?Gas Heating: Cost-effective for large-scale production with consistent heat distributi ?Diesel Oil Heating: Ideal for areas with limited gas or electricity access, providing high thermal efficiency.

4.It is full automatic, advanced technology, easy to operation, high quality, save energy labor, reasonable price to win customer reply and reputation.

?PLC Touch Screen Control: Easy-to-use interface for adjusting speed, temperature, baking time.

?Energy-Saving Design: Optimized heat circulation and insulation reduce power consumption.

?Minimal Labor Requirement: Automated feeding, forming, baking, and packaging re manual work.

?Smooth & Stable Performance: Precision-engineered components ensure low main and long service life

Sample

Theindustrial automatic biscuit production line produces high-quality soft and hard bis from material mixing to finished products, all in one go, with an automatic waste recycl system. Our biscuit production line can make soft biscuits, hard biscuits, butter biscuit sandwich biscuits, soda biscuits, animal biscuits, vegetable biscuits, cream biscuits, e biscuit production line is designed according to the requirements of each customer, s stepless speed regulation, fast and slow, automatic temperature control, automatic pe alarm. The biscuit making machine oven heating type can be gas, electric, etc.



Innovative directions and market opportunities for bis

production lines

Green and sustainable production

Energy efficiency improvement? The production line is equipped with solar panels to i dependence on the power grid.

Adaptation to eco-friendly materials?Upgrade low-waste processes

Policy-driven: Europe's 'Green Deal' and China's 'Dual Carbon' goals will push for eq upgrades, and production lines that fail to meet energy efficiency certifications may b phased out.

Intelligentization and digitalization deeply penetrate

IoT sensors monitor equipment vibrations and temperature anomalies, allowing for eareplacement of parts and reducing downtime losses.

The AI camera detects color and shape defects in cookies, such as cracks and burni an accuracy exceeding 99%, reducing the cost of manual spot checks.

Adjust baking temperature and time dynamically using sensors (such as automaticall optimizing parameters based on dough moisture content)

Emerging Market Localization Needs

Southeast Asia and Africa

- Climate Adaptability: Develop moisture-resistant and heat-tolerant equipment (e.g., enhanced packaging sealing for the Indian monsoon season).
- Miniaturized Production Lines: Introduce affordable models with capacities of 1-2 to hour for family workshops or community factories.

Health Snack Trend

- Functional Cookie Equipment: ? High-Protein Cookies: Require mixing technology for stickier dough; ? Sugar-Free Cookies: Design baking chambers for high-tempera sugar substitutes like allulose.
- Clean Label Production: Independent production lines to avoid cross-contamination gluten-free, nut-free products).

Which Market Did The Loyal Biscuit Making Equipment Sold?

Customer Case Of Small Scale Automatic Biscuit Production Line		
1	100KG/H Thai soft biscuit production line for Thailand customer	
2	100KG/H small scale biscuit making machine for sale in Uzbekistan	
3	100KG/H fully automatic biscuit making machine for sale in Nigeria	
Customer Case Of Industrial Automatic Biscuit Production Line		
1	Industrial biscuit making machine fully automatic 100KG/H in Algerian	
2	80KG/H industrial fully automatic small scale biscuit making machine for sale in Senegal	
3	100KG/H industrial biscuit making machine buy online sold in Russia	
Customer Have Raw Material Case Of Automatic Biscuit Production Line		
1	500KG/H industrial soft biscuit production line for sale in Bolivia	

- 2 Mozambique 500KG/H industrial automatic biscuit making machine
 300KG/H fully automatic automatic biscuit production line for sale in
- 3
- Pakistan



Reference

The following are five authoritative foreign literature websites in the field of Industrial machinery:

1. Food Engineering Magazine

Website: https://www.foodengineeringmag.com/

2.Food Processing Magazine

Website: https://www.foodprocessing.com/

3. Journal of Food Engineering

Website: https://www.journals.elsevier.com/journal-of-food-engineering

4. Food Manufacturing Magazine

Website:https://www.foodmanufacturing.com/

5. International Journal of Food Science & Technology

Website:<u>https://onlinelibrary.wiley.com/</u>