Unveiling the hard biscuit production line

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If you want to know more story about LOYAL brand? here can help you - https://www.facebook.com/Foodextruderfactory/

Hard biscuits, a seemingly simple baked food, hide a series of sophisticated process scientific principles behind it. Its unique taste - neither too crispy nor too soft, but with the right hardness and layers - comes from the careful preparation of the dough, long mechanical kneading, and precisely controlled baking time.

The starting point of the hard biscuit production line is the precise ratio of flour, sugar water. The gluten protein in the flour forms a network structure during the mixing program giving the biscuits a unique hardness; while the addition of sugar and oil regulates the ductility and flavor of the dough. The mixer runs at a specific speed, allowing the dougradually become smooth and uniform under the action of mechanical force, and the the static stage - the relaxed dough molecules are rearranged, waiting for the next standing.

The dough press machine stretches the dough into uniform thin sheets by multiple rough process not only determines the final thickness of the biscuit, but also affects its structure. Then, the mold punches out a neat shape, the scraps are recycled, and the qualified biscuits are sent to the oven. Here, the precise coordination of temperature time allows the water to evaporate slowly, the starch to gelatinize, and the sugar to caramelize, ultimately forming a golden, crispy shell and a slightly chewy core.

This hard biscuit production lineis a perfect combination of food science and mechan engineering, with each step rigorously calculated and optimized. The final product is

testament to this precise collaboration.

The reason why hard biscuits are so memorable is that they are chewy and have a ri wheat aroma when you bite them. Behind this taste is the precise control of details so dough ratio, molding thickness, and temperature control. It is these seemingly simple actually complex links that make industrial mass production extremely challenging.

In order to allow more consumers to enjoy this classic and authentic taste, we have developed a fully automatic hard biscuit production linecustomized for hard biscuits. I mixing ingredients to calendering, to precise baking and cooling, each link has been optimized to ensure the traditional flavor of the product while taking into account the and safe modern food production standards.



What are hard biscuits?

Hard biscuits are a classic type of biscuits that originated from traditional European be culture. Its history can be traced back to the late 18th century and early 19th century, people created this type of product with low moisture content and tough texture in ord keep the taste and chewiness of biscuits during long-term travel or storage. Because are not easy to break and easy to store, hard biscuits were originally often used as more content.

rations or long-distance transportation food.

With the advancement of the Industrial Revolution and the development of baking technology, hard biscuits have gradually evolved from functional foods to popular sna and the taste has been continuously improved, from the initial rough and hard storage to today's chewy and flavorful daily biscuits. In many countries around the world, espin the Asian and Middle Eastern markets, hard biscuits still occupy an important posit are deeply loved by consumers.

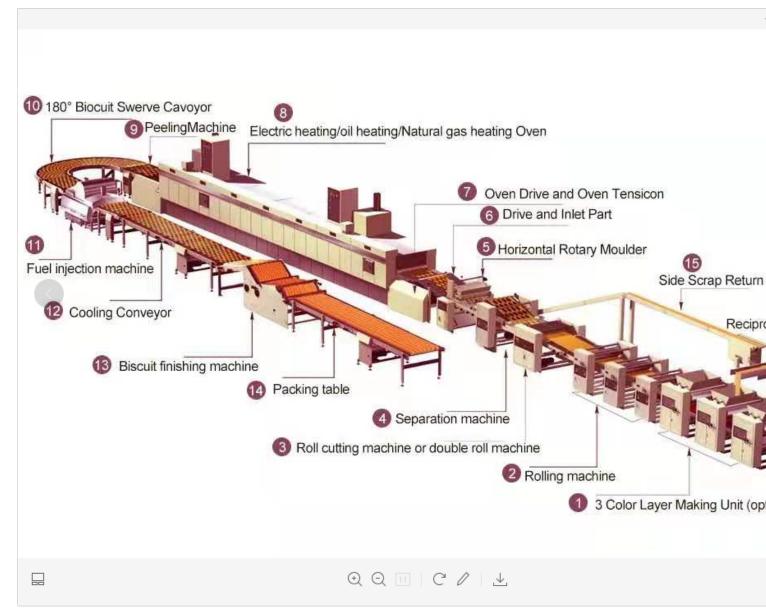


Hard biscuit production line flow chart

It is the same as mentioned in the previous article, except that its mold is a hard bisc mold, which is rolled and formed.

Flour Mixing---Hard Biscuit Forming machine---Oven---Oil Spraying ---Cooling Conve Biscuit Stacking ---Biscuit Packing

Regarding biscuit making machine, We have small and large biscuit machines for you choose from. If you need a packaging machine, we also provide it.



The function of hard biscuit production line

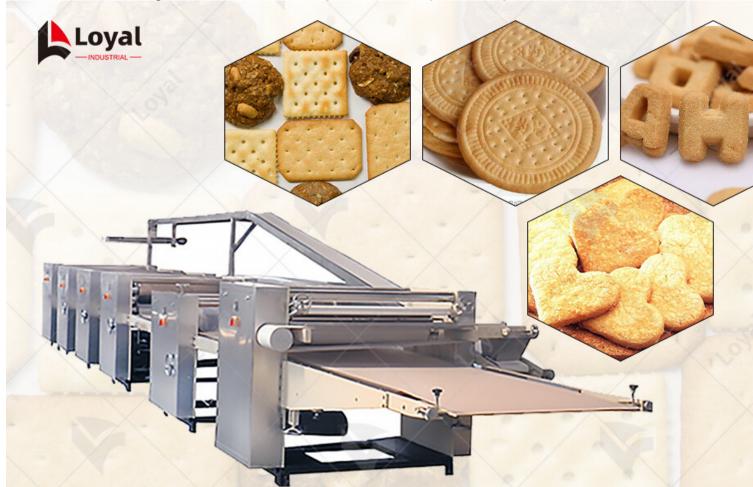
Mixer: Dough mixer is a machine that mixes flour with water or other ingredients into It is widely used in making dough for various pastries, biscuits, bread, steamed buns,

Hard Biscuit Forming machine: Hardness molding: put the mixed dough into this mac press the skin through three rollers, and then roll it into biscuit embryos through the re cutting mold, and put it into the oven to bake medium and high-end hard biscuits.

Oven: Suitable for baking all kinds of biscuits. Use electric heating, temperature zone control, temperature of each temperature zone can be set in advance, uniform temperature temperature zone, use high-quality insulation materials, good insulation perform high thermal efficiency. Temperature control system, automatic temperature control acconstant temperature, flexible operation, high safety performance.

Oil Spraying: Spray oil on the surface of biscuits coming out of the baking oven to ma color, aroma and taste of the biscuits more distinctive and improve the grade of the b Cooling Conveyor: This equipment fully cools the biscuits before they are conveyed to packaging machine to ensure the quality of the biscuits after packaging and extend the life.

6. Biscuit Stacking: sort biscuits and pick out unqualified products.



Advantages of hard biscuits

1. Provide lasting energy

- (1) Mainly complex carbohydrates: hard biscuits are mostly made of whole grains such whole wheat and oats, which are slowly digested and absorbed, and blood sugar rise slowly, making them suitable as energy supplements between meals.
- (2) Low in fat and sugar (some products): Compared with crispy biscuits (such as contraditional hard biscuits have lower oil and sugar content and are more suitable for personal control calorie intake.

2. Promote digestive health

(1) Rich in dietary fiber: hard biscuits made from whole wheat or cereals are rich in in fiber, which can stimulate intestinal peristalsis and prevent constipation (for example, British "digestive biscuits" are called this, but they actually rely on fiber to aid digestic

(2) Advantages of fermentation technology: Fermented hard biscuits such as soda cr contain a small amount of probiotic metabolites, which may slightly improve the gastrointestinal environment.

3. Easy to digest, reducing the burden on the stomach

(1) Alkalinity neutralizes stomach acid:

Soda crackers contain sodium bicarbonate (baking soda), which can temporarily neu stomach acid and relieve stomach discomfort (such as morning sickness and hunger stomach pain), but long-term dependence may disrupt stomach acid balance.

(2) Low irritation:

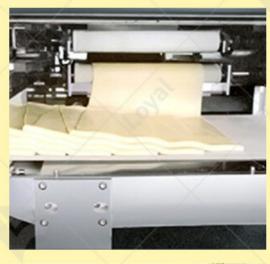
Hard crackers are dry and less greasy, suitable for people with sensitive stomachs to small amounts.

4. Partial nutritional fortification

(1) B vitamins and minerals:

Whole wheat tough crackers retain nutrients such as B1, B2, and iron in wheat germ, some products will additionally fortify calcium, iron, etc. (please check the ingredient (2) Gluten-free options:

Some tough crackers use gluten-free ingredients such as brown rice and quinoa, whi suitable for patients with celiac disease.













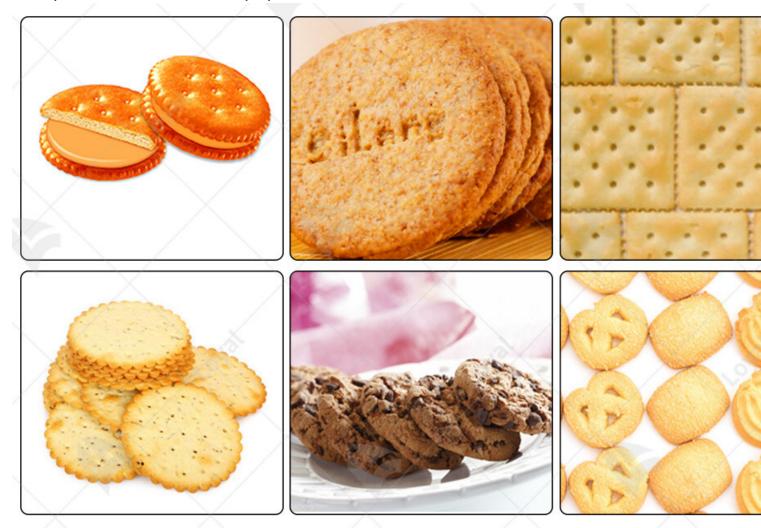
Technical specifications of hard biscuit production line

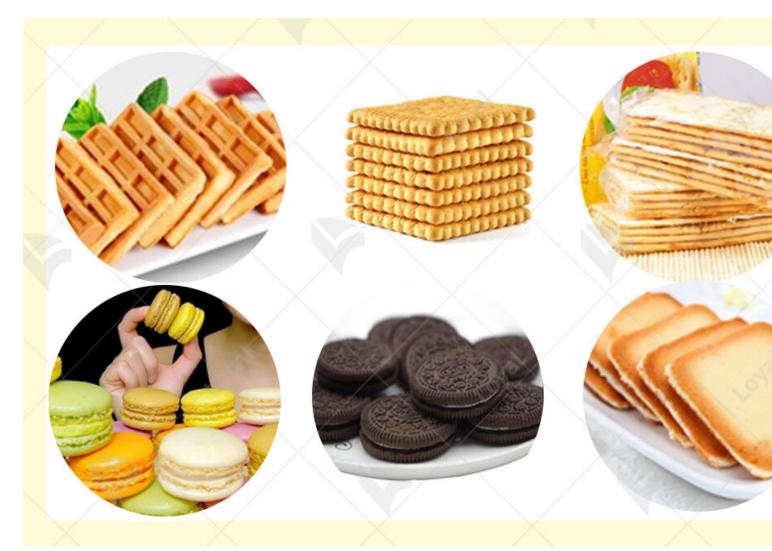
Model	Output
LY-320	100-150kg/h
LY-400	150-200kg/h
LY-600	400-500kg/h
LY-800	600-800kg/h
LY-1000	1000kg/h
LY-1200	2000kg/h

Layout for the hard biscuit production line

Our machines can be flexibly arranged according to the size and dimensions of the fa We can also customize the size of the machine according to the data you provide.

Sample of hard biscuit equipment





If you are interested, I will recommend a company to you, please continue reading.

Recommended Company

Shandong Loyal Industrial Co.,Ltd. Is a Manufacturer Of Snacks Extruder Machine, Industrial Microwave Oven, Corn Flakes Production Line, And a Standing Director Coron Food And Drying Equipment Industry Association.

The Self-developed Twin-screw Extruder And Single-screw Equipment of Shandong Machinery Have Been Used In Production: Puffed Snack Food, Breakfast Cereal Con Flakes, Fried Pasta, Bread Crumbs, Fruit Chips, Baby Food, Textured Soy Protein (to Food, Fish Feed And Pet Food. a Variety of Snack Production Line Supporting Production The Same Time, The Batching, Drying, Flaking, Baking, Frying And Spraying Equipment Matching The Twin-screw Extrusion System Have All Achieved Independent Design Production.

Our Extrusion System Is Widely Used In: Puffed Snack Foods, Breakfast Cereals, Vernotein Meat Products, Soy Based Nutrition Bars, Reconstituted Rice, Grain Nutrition Powder, Modified Starch, Starch-based Sticky Music Children's Educational Toys,

Degradable Starch-based Packaging Filling Materials, Bread Crumbs And Other Foo Additives, Pet Food, Aquatic Feed, Biology And Chemical Industries.

Customer-specific Food Processing Plant Project Solutions

As one of the leading manufacturers of food processing equipment, we are always see for new solutions that benefit our snack food customers. Our experienced frying engine always find the optimal solution for your industrial batch and continuous frying system application. That's why we also develop, design and produce custom fried snack profiline.

Close collaboration with our customer is important to us even in the early developme phase. No matter what the special requirements of instant noodles production line, so food extruder machine, pasta production line application, we can develop a custom not food processing equipment to match your needs.

Loyal have a unique and efficient industrial continuous frying equipment for snack for extruder machine that provides the right crunch and desired moisture level.

The Industrial Microwave Sterilization Defrosting Drying Machine can be designed as powder dosing system and a wet slurry dosing system as required.

Some snacks can also be fried according to taste requirements, and we also provide Snack Production Line for the processing and packaging of fried extruded snacks.

Loyal Food Production Line meet the needs of customers to obtain snack food that meeds.

In ovens or drying units, electric or gas can be used as heating sources.

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About packaging and after-sales service

Packing: Plastic Film Suitable For Ocean Carriage

Technical Support: The customer can inform machine related problems to us via tele email or fax. All information will be recorded and will be reported to the After-sale Serteam. Meanwhile, the sales person will be tracking the case until problem solved.

Service Team:We have a professional Aftersale Service team including 10 professional engineers with at least 6 years working ex

After-sale Service available :1.Check & test before delivery 2.Instruction for installati 3.On site commissioning 4.Repair & maintenance

After the receipt the advanced payment, we will provide allocation chart at the buyer's request. When effect the shipment, we'll provide operation manual, etc. in English.

The food industry is changing with each passing day, but the pursuit of pure taste and quality remains unchanged. We know that the hard biscuit production line is not only a

equipment, but also a commitment - a commitment to quality, a commitment to efficie and a commitment to customer success. Every process and every component is a re of our strict requirements for details, just to help you produce products that satisfy the market and consumers love.

We always believe that a stable and long-term partnership comes from trust, and trust comes from reliable technology and sincere service. Whether you are preparing to be new production line or upgrade existing production capacity, we will provide you with professional technical support and personalized solutions to help you develop steadily take the initiative in the market.

As your global partner in the field of biscuit production, we are willing to work with your grasp the pulse of the times, grasp the changes in consumer tastes, innovate in inhe and develop in innovation. Let us work together to not only produce hard biscuits, but create your brand and future.

If you are interested in this hard biscuit production line, please feel free to contact us. Looking forward to creating brilliance with you!