# Biscuit Production Line Efficient And Intelligent Bak

# Solutions

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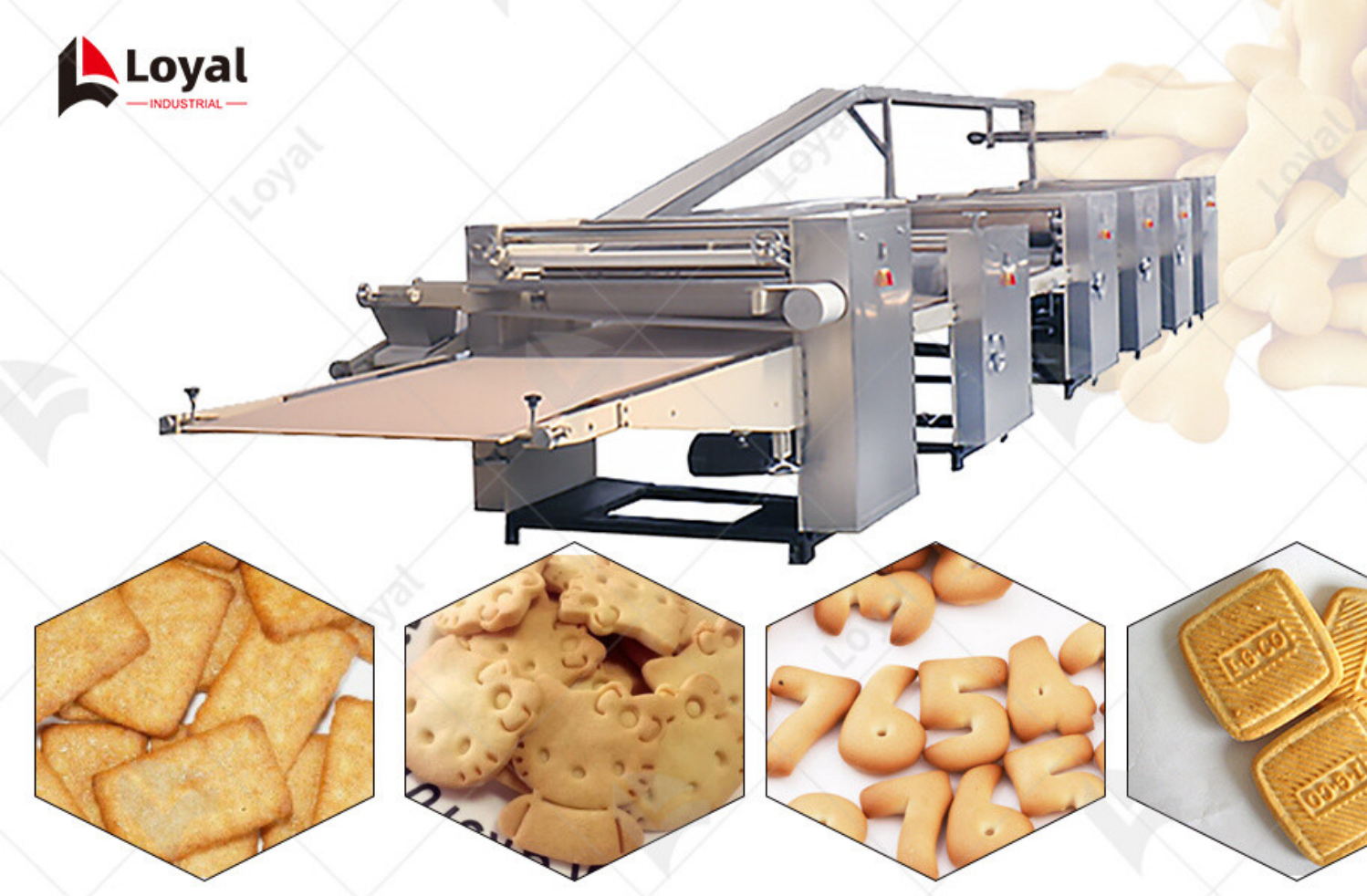
In the modern baking industry, biscuit production has changed from traditional manua production to a highly automated and industrialized production process. The emerger biscuit production lines has not only greatly improved production efficiency, but also e the stability and consistency of product quality. This article will introduce various aspe the biscuit production line in detail, including its main components, production proces equipment advantages, and configuration solutions under different production require




## Overview of Biscuit Production Line

The biscuit production line is an automated equipment system specifically used for m
production of biscuits. It covers the entire production process from raw material mixin
finished product packaging, and is capable of producing a variety of biscuits, such as
biscuits, tough biscuits, and sandwich biscuits. Through highly automated equipment
precise process control, the biscuit production line can achieve efficient production to
the needs of different customers.
The main components of the biscuit production line include raw material mixing equip
molding equipment, baking equipment, cooling equipment, finishing equipment, and
packaging equipment. These equipment form a complete production process through
reasonable layout and connection. The output of the production line can be adjusted
according to customer needs, from a small production line of 100 kg per hour to a lar
production line of 1,000 kg per hour, which can meet the production needs of enterpr
different sizes.

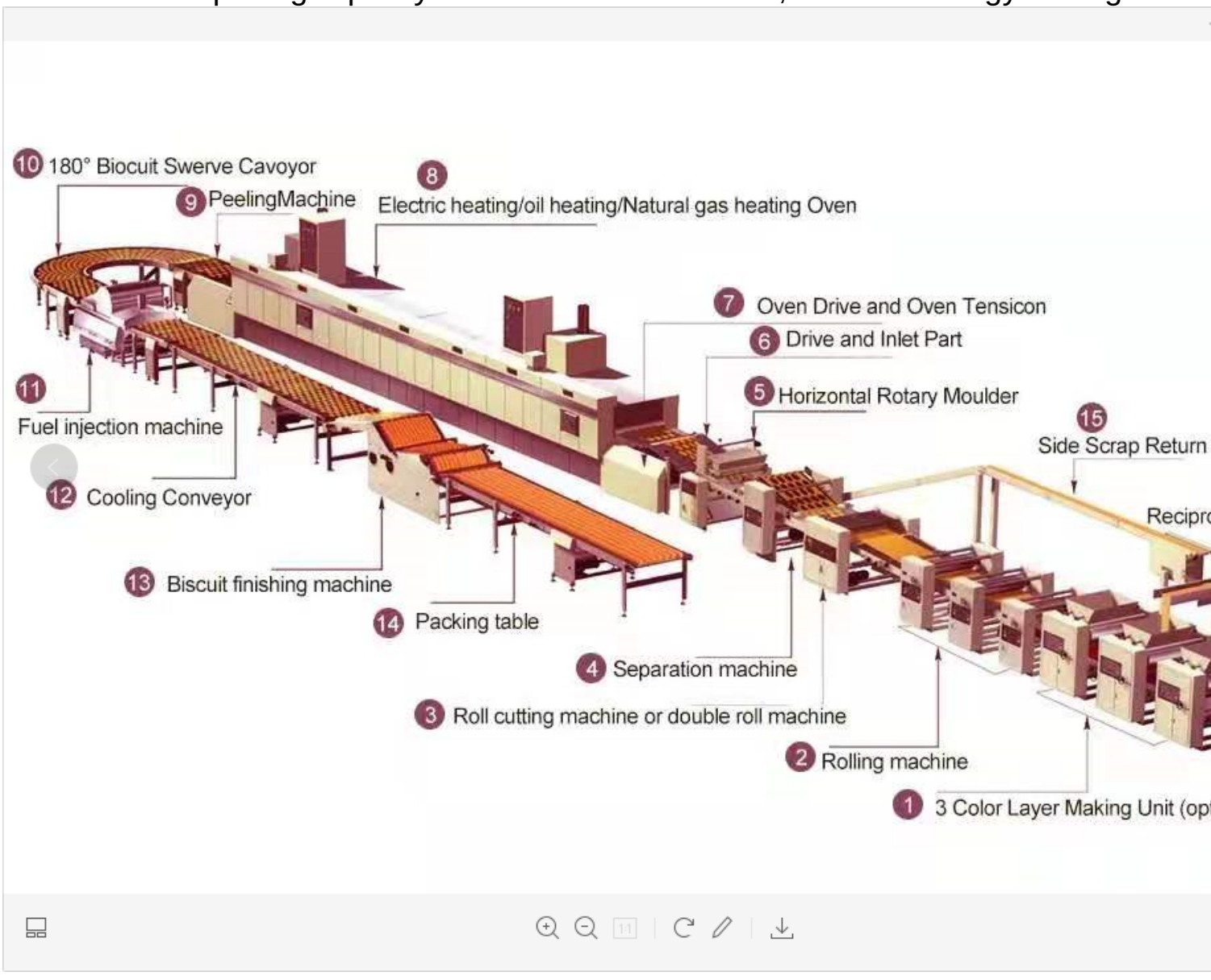
## The main components of the biscuit production line

### 1. Raw material mixing equipment

Raw material mixing is the first step in biscuit production. Its purpose is to mix flour, s
butter, egg yolk powder and other raw materials in a certain proportion to form a doug
suitable for subsequent processing. Raw material mixing equipment usually includes
mixers and blenders.

### Flour mixer

Function: The main function of the flour mixer is to mix flour and other raw materials e
It can be used alone or in conjunction with other equipment.
Features:
The body is made of all stainless steel, not easy to rust and easy to clean.
The mixing teeth are thickened, not easy to deform, and easy to clean.
Adopting one-piece molding design, no weld joints, no material storage, easy to clear
Suitable for mixing crisp and tough raw materials.
With a safety control system to effectively protect the operator.
The motor adopts high-quality national standard motor, energy-saving and efficient.
Mixer
Function: The mixer is used to further mix the dough to make it suitable for shaping.
Features:
Adopts Z-shaped mixing teeth, suitable for mixing tough and crisp biscuits.
With a protective cover to ensure safe operation.
The motor adopts high-quality national standard motor, which is energy-saving and e




Forming equipment

Forming equipment is a key link in the biscuit production line. It processes the mixed
into biscuits of various shapes. Forming equipment mainly includes tough biscuit form
machines and crisp biscuit forming machines.

Tough/Hardbiscuitequipment

Function: Process the dough into the shape of tough biscuits.

Features:

Suitable for large-scale production of 150-200 kg/hour and above.

Food-grade PU conveyor belt to ensure food hygiene.

The pressing roller adopts an exclusive design. From the feed to the discharge end, t
diameter of the pressing roller is from large to small. The thickness of the pressed do
uniform and not easy to break.

Provide 200,000 mold designs to meet the needs of different customers.

Equipped with a waste material recovery device, the belt is made of PC material and
anti-deflection guide roller.

Softbiscuit making machine

Function: Process the dough into the shape of crisp biscuits.

Features:

Suitable for large-scale production of 150-200 kg/hour and above.

Food-grade PU conveyor belt to ensure food hygiene.

The pressure roller is made of alloy material with extremely high hardness to ensure
quality of forming.

The mold material can be brass or PE to meet different needs.

The bottom is equipped with wheels to facilitate the replacement of soft and hard bisc
machines.

There are baffle plates on both sides of the mold to prevent leakage.

There is a material receiving plate at the bottom, so the remaining materials can be r
and reused, which is easy to clean.

Baking equipment

Baking is one of the most important links in the biscuit production process, which dete
the taste and quality of the biscuits. Baking equipment mainly includes tunnel ovens a
oven control systems.

Tunnel oven

Function: Bake the formed biscuits to achieve the desired taste and color.

Features:

There are various heating methods, including electricity, gas and diesel.

The insulation cotton is made of aluminum silicate, which has good thermal insulation
performance.

The frame material is made of carbon steel square tube, which is strong and durable.

The mesh belt adopts a herringbone design, which is corrosion-resistant,high-temper
resistant and has a long service life.

Automatic pneumatic deviation correction device ensures the smooth operation of the belt.
Multi-zone intelligent temperature control system, the temperature of each temperatu can be set and the temperature is uniform.
High-quality insulation materials are used, with high thermal efficiency, energy saving high efficiency.
Fully automatic PLC temperature control system, flexible operation and high safety performance.
Oven control system
Function: Control the temperature and operation status of the oven.
Features:
Zoned temperature control, baking on both sides to ensure that the cookies are heate evenly.
Adopt M-type electric heating tube, heat is evenly dispersed.
The gas oven has a built-in ceramic infrared combustion tube with high combustion efficiency.
The oven wall is filled with high-quality perlite, which has good thermal insulation and shell temperature to protect the safety of workers.

## Cooling equipment

The function of the cooling equipment is to cool the baked biscuits to room temperatu subsequent packaging. The cooling equipment mainly includes cooling conveyors an cooling lines.

## Cooling conveyor

Function: transport biscuits from the oven to the cooling area.
Features:
Food-grade mesh belt to ensure food hygiene.
Using PU material, in line with FDA food-grade certification, good oil resistance, stron corrosion ability.
The belt edge is neat and not easy to deviate.
The PU production line can be as thin as 0.6mm, with more precise thickness, beauti surface and anti-static properties.

## Cooling line

Function: Cool the biscuits to room temperature.

Features:

The length can be adjusted according to the production demand, generally 18 meters

Adopt food-grade mesh belt to ensure food hygiene.

Adopt PU material, meet FDA food-grade certification, good oil resistance, strong ant corrosion ability.

## Sorting equipment

The function of the sorting equipment is to sort and screen the cooled biscuits to ensu product quality. The sorting equipment mainly includes biscuit sorting machines and s tables.

Biscuit sorting machine

Function: sort the cooled biscuits and remove unqualified products.

Features:

Suitable for large-scale production of 150-200 kg/hour and above.

Workers can pick out unqualified biscuits here and manually sort and arrange qualifie biscuits.

Arrangement table

Function: Provide workers with a working platform for arranging biscuits.
Features:
Made of stainless steel, easy to clean.
The surface is flat and easy to operate.

## Packaging equipment

The packaging equipment is the last link of the biscuit production line. It will pack the biscuits to ensure the quality of the products during transportation and sales. Packag equipment mainly includes trayless packaging machine, sandwich packaging machin pillow packaging machine.

### Trayless packaging machine

Function: Pack biscuits without trays.
Features:
Suitable for the production of small-package biscuits.
Fast packaging speed and high efficiency.

### Sandwich packaging machine

Function: Packing sandwich biscuits.
Features:
Suitable for the production of sandwich biscuits.
Fast packaging speed and high efficiency.
Ensure that the sandwich biscuits are not squeezed.

Pillow packaging machine

Function: pillow packaging of biscuits.

Features:

Suitable for packaging of various types of biscuits.

Fast packaging speed and high efficiency.

Beautiful packaging effect, suitable for sales.

Equipment advantages of biscuit production line

The equipment of biscuit production line has many advantages and can meet the nee
different customers. The following are the main equipment advantages of biscuit proc
line:

Efficient production

High degree of automation: The biscuit production line adopts highly automated equi
From raw material mixing to finished product packaging, the whole process does not
human intervention, which greatly improves production efficiency.

Adjustable output: The output of the production line can be adjusted according to cus
needs, from a small production line of 100 kg per hour to a large production line of 1,
per hour, which can meet the production needs of enterprises of different sizes.

Stable product quality

Precise control: The production line uses a multi-zone intelligent temperature control
and a fully automatic PLC temperature control system, which can accurately control t
baking temperature and time to ensure the stable quality of the biscuits.
Hygiene and safety: The equipment is made of food-grade materials and complies wi
food-grade certification to ensure food hygiene and safety.

Energy saving and high efficiency
Energy-saving design: The production line uses high-quality insulation materials and
saving motors, which can effectively reduce energy consumption.
Residual material recovery: The molding equipment and injection equipment are equi
with residual material recovery devices, which can recover the remaining raw materia
reduce waste.
Easy operation
User-friendly: The operation interface of the production line is displayed in full Chines
which is easy to operate and easy to use.
Safety protection: The equipment is equipped with a safety control system, which car
effectively protect the safety of the operator.

Summary
The biscuit production line is an efficient and intelligent baking solution that can meet
production needs of different customers. Through highly automated equipment and p

process control, the biscuit production line can achieve efficient production and ensu
stability and consistency of product quality. Whether the customer needs small or lar
production, the biscuit production line can provide a suitable configuration. Choosing
a biscuit process line means choosing an efficient, stable and energy-saving producti
method.

Shandong Loyal Industrial Co., Ltd biscuit process line is centered on "precision
craftsmanship + innovative technology" and has built a full-chain solution from raw m
to finished products. Whether it is the structural wisdom of the wavy noodles, the flex
adaptation of multiple production capacities, or the forward-looking layout of health a
intelligence, they all demonstrate the high professionalism and market insight of the
food industry. For food companies, choosing the Shandong Loyal Industrial Co., Ltd
production line is not only about obtaining a production equipment, but also about ob
the key to the global fast food market - from classic flavors to innovative forms, from
brands to international giants, it has always helped customers to continue to lead the
competition with stable performance and excellent quality.

At present, Shandong Loyal drying equipment is also known by more and more peop
variety of models, different sizes, widely used in the drying of Chinese herbal medicin
plant seeds and various dehydrated vegetables. Shandong Loyal Industrial Co., Ltd h
the trust and cooperation of its continuously enhanced innovation ability, outstanding
customization ability, and increasingly perfect delivery ability, and is favored by custo
home and abroad.

Partnering with Shandong Loyal Industrial Co,.Ltd means joining a global community
industry leaders. We understand that your success hinges on speed, reliability, and
consumer trust—and our production lines are built to exceed these expectations. Cho
innovation. Choose sustainability. Choose Shandong Loyal Industrial Co,. Ltd as you
strategic ally in shaping the future of nutrition. Let’s transform your vision into a reality
nourishes both bodies and bottom lines."
The products are perfect, and the mesh belt dryer, energy room drying, drying and
sterilization equipment, single and twin-screw puffed food machinery machinery and
equipment equipment are becoming more and more popular now. Myanmar, Thailan
Pakistan, Kazakhstan, Uzbekistan, Turkmenistan , Jordan , Yemen, Iraq, Egypt , Alg
Morocco , come Shandong Loyal Machinery has won wide acclaim at home and abro
the future, we will continue to provide higher quality equipment and better services.