

Fully Automatic Corn Flakes Process Line: Energy-Efficient and Innovations

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Corn Flakes Production Line Detail Introduction

Corn Flakes Production Line refers to an industrial setup designed for the large-scale manufacturing of corn flakes, a popular breakfast cereal. This line consists of various specialized machines and equipment organized into several key stages, including raw material handling, mixing, extrusion shaping, baking, cooling, coating, and packaging. Modern corn flakes production lines incorporate advanced automation systems to maintain consistency in production efficiency and product quality.

At present, the corn flakes processing line sells well. Corn flakes production line not only has a broad market in China, but also popular in foreign countries. Corn flakes production line has been sold to Brazil, Britain, Myanmar, Australia, Pakistan and many other countries where it gets a very good response.

As a common food in people's daily life, corn flakes are very popular, nutritious and delicious. Consumers also use corn flakes as regular food. Its development prospect is very broad. Therefore, the corn flake production line is a very good choice for investment.

The corn flakes making machine has characteristics of high quality, high efficiency, cost savings and high economic benefits. After abandoning the shortcomings of the previous equipment, there are many new superior performances.



Introduction to Energy-Efficient Corn Flakes Manufacturing

The Corn Flakes industry is undergoing a transformative shift as consumers and regulators demand sustainable, high-quality products. Traditional [corn flakes process lines](#) often struggle with energy inefficiency, inconsistent texture, and high waste—challenges that modern fully automatic corn flakes production lines are uniquely equipped to address.

Automation is no longer optional in this competitive landscape. According to Dr. Emily Carter, a food processing expert at the Global Cereal Innovation Institute, "Manual systems waste up to 20% of energy through overheating and human error, while automated lines optimize every step from extrusion to packaging." The Fully Automatic Corn Flakes Production Line integrates advanced technologies like IoT sensors and heat recovery modules, reducing energy consumption by 30–40% while ensuring uniform product quality.

The corn flakes making machine has advanced snacks manufacturing process technology combined with extruded snacks manufacturing process to develop and produce a fully automatic production line.

The corn flakes technology team has solved the existing small corn flakes making machine's difficult problems such as low output, low forming rate of corn flakes and poor taste of corn flakes.

Corn flakes production line takes various kinds of cereals as the basic raw material and can also add various trace elements and food additives such as cocoa powder and powdered sugar according to the needs of corn flakes manufacturers.

The corn flakes production line is suitable for all kinds of maize flakes. Corn flakes production line produces products for various maize flakes fields. It is the first choice of corn flakes making machine for major food manufacturers to expand the market.

Corn flakes manufacturing process Flow Chart



Mixer Screw Conveyor Twin Screw Extruder Air Conveyor Flaking Machine
Conveyor Pre-Dryer Elevator High Temperature Baking Machine Seasoning
Multi-Layer Oven Cooling Machine Packaging Machine

Corn Flakes Production Line Corn Flakes Making Machine	
NO.	Equipment Of Corn Flakes Production Line
1	Flour Mixer
2	Screw Conveyor
3	Double Screw Corn Flakes Making Machine
4	Vibrate Cooler
5	Air Conveyor
6	Flake Machine
7	Air Conveyor
8	Multi- Layers Dryer
9	Hoister
10	Vibrant Feeder
11	LYK-G Hot Air Roaster
12	Melting Sugar Jar
13	Sugar Coating System
14	Multi- Layer Drying Machine (Extended Type)
15	Cooling Conveyor of Corn Flakes Making Machine



Parts of Corn Flakes Production Line

(1) Mixer. Mix corn meal or corn grits with nutritional additives and a proportion of water. This is the first step in the work of the corn flakes processing line.

(2) Feeder. Feed the mixed material into the hopper of the extruder. This is the second step in the work of the corn flakes processing line.

(3) Extruder. The raw material enters the hopper. In a pressurized system, small spherical granules are produced. This is the third step in the work of the corn flakes processing line.

(4) Vibrating cooler. The granules are dispersed after entering the tablet machine, avoiding overlapping and pressing together. This is the fourth step in the work of the corn flakes processing line.

(5) Air conveyor. The granules are transported to the tablet press. This is the fifth step in the work of the corn flakes processing line.

(6) Flaking machine. The pellets are pressed into flakes, known as corn flakes. This is the sixth step in the work of the corn flakes processing line.

(7) Air conveyor. Send the cornflakes to the oven. This is the seventh step in the work of the corn flakes processing line.

(8) Multi-layer oven. Ovens are mostly electric ovens. The temperature is adjusted by a control cabinet between 0-200 degrees. The inner pocket is made of stainless steel or mesh. Baking time can be adjusted based on speed to remove moisture. This is the eighth step in the work of the corn flakes processing line.

(9) Seasoning system. The seasoning line has octagonal cylinder, lifting cylinder, single cylinder and double cylinder. According to the output and product properties, there are spraying, sugar spraying and coating equipment. This is the ninth step in the work of the corn flakes processing line .

(10) Packaging machine. The finished pellets are conveyed to the crushing unit. This is the last step in the work of the corn flakes processing line .



Corn Flakes Process lineFlow Chart	
Mixer	Premix Grains, Minerals And Vitamins, Salt, Milk Powder, Emulsifiers Are Fed, Mixed And Conveyed In A Preconditioner Which Hydrates And Heats The Mixture To Start The Gelatinization.

Twin Screw Extruder corn Flakes Making Machine	<p>The Partially Cooked Product Is Introduced Into The corn flakes making machine.</p> <p>The Corotating Screws Mix The Pre-Moistened Powders With A Malt Syrup, Injected Directly Into The Extruder ;.</p> <p>The Heat Generated By Viscous Dissipation And The Controlled Shear Generated By The Screws Geometry Provide The Required Thermo-Mechanical Treatment To The Preparation.</p> <p>An Advanced Cooling System Precisely Adjusts The Temperature In Each Barrel Module.</p> <p>The Homogeneous, Pasty And Cooked Product Is Pushed Throughout The Die Which Forms Continuous Unexpanded Strands.</p>
Tablet Press OF corn flakes making machine	After A Short Cooling Period, The Products Are Tempered, Cut And Flaked Using A Flaking Device Consisting Of Two Thermo-Regulated And Counter-Rotating Cylinders.
Hot Air Baking Machine ? Seasoning Machine ? Dryer	They Are Then Transferred To A Dryer / Toaster And Cooled Before Being Stored And Packed. An Additional Coating Operation May Be Applied To Add,- For Example, A Sweet Syrup, Before Drying And Cooling.

Technical Parameters For Corn Flakes Machine

Different model for sale of corn flakes making machine		
Model	Installed Power	Output

LY65	222kw	100-150g/h
LY70L	326kw	200-250kg/h
LY85	433kw	300-500kg/h
LY75	583kw	300-500kg/h
LY95	740kw	800-1000kg/h



Key Technologies in Modern Corn Flakes Machines

The evolution of corn flakes machines has introduced groundbreaking innovations that redefine efficiency and precision in cereal manufacturing. From extrusion to packaging, these technologies ensure uniformity while slashing energy waste—a critical advance for modern corn flakes process lines.

Automated Extrusion and Flaking Systems

Modern corn flakes machines employ twin-screw extruder to shape corn grits into perfectly uniform flakes. The AutoFlake Pro system by CerealTech, for instance, achieves ± 0.3 mm thickness consistency, eliminating manual calibration. Automation ensures every flake meets strict quality benchmarks, which is impossible with manual systems.

Heat Recovery Modules: Turning Steam into Savings

Traditional corn flakes process lines waste up to 30% of thermal energy during steam drying. Advanced systems now integrate heat exchangers to capture and reuse this steam.

A 2024 Cereal Manufacturing Journal study found factories using such systems cut CO₂ emissions by 150 tons per line.



Will eating corn flakes make you fat?

Corn Flakes Making Machine can produce corn flakes with various flavors for consumers to choose from. As a very popular food, many people are concerned about whether corn flakes will gain weight after eating corn flakes.

Corn flakes can be eaten directly or processed into other foods. There are also many types of corn flakes. The most common ones are light corn flakes, sweet corn flakes, and salted corn flakes. Corn Flakes Making Machine can produce corn flakes with various flavors for consumers to choose from. As a very popular food, many people are concerned about whether corn flakes will gain weight after eating corn flakes.

Generally speaking, as long as it is a scientific and reasonable diet, it will not gain weight. Corn flakes are rich in carbohydrates, which can provide energy sources for the human body. In addition, corn flakes also contain high levels of other nutrients, such as vitamins.

vitamin B5 and vitamin C, which help prevent certain diseases.

The dietary fiber content in corn flakes is also relatively high, which helps to lower the sugar level of diabetic patients and lower the cholesterol level in the human body. Corn flakes have some other benefits. Therefore, as long as the diet is scientific and reasonable, eating corn flakes will not cause obesity, and it will also have many benefits for the body.

Scientifically arrange three meals a day Eating must ensure the health of the body. Under normal circumstances, people are accustomed to three meals a day, which is very important for breakfast. They should eat well and have enough food to ensure their nutritional needs throughout the day. You can eat more for lunch to achieve a balanced nutritional mix. At dinner, you should eat less, mainly light, and don't eat anything within three hours before going to bed. Pay special attention not to drink alcohol or eat meat, otherwise it will be easy to gain weight.

Adjust the diet The main cause of obesity is that energy intake exceeds the body's needs, and the excess energy is stored in the body in the form of fat, leading to weight gain. Adjusting the diet structure includes adjusting the total amount of food intake, the composition of nutrients and the improvement of eating habits. This is a scientific and effective way to lose weight.

Control staple foods and limit sweets For people with a large appetite, the staple food should be reduced gradually to reduce intake. For foods with too much starch and high sugar content, such as sweet potatoes, potatoes, lotus root flour, jams, preserves, etc., eat as little as possible or don't eat. Non-staple foods can be lean meat, fish, eggs, soy products, or vegetables and fruits with low sugar content.

Ensure adequate sleep Adequate sleep will bring a feeling of fullness, and it can also help you lose weight more consciously. This is one of the easiest ways to lose weight. On the contrary, lack of sleep will cause endocrine disorders, reduce the alkaloids that contribute to weight loss in the body, and increase the alkaloids that accelerate hunger in the body.

Choose the right weight loss exercise Exercise can be roughly divided into two categories: aerobic and anaerobic. Anaerobic exercise has a very good effect of strengthening the body, while aerobic exercise can help improve the body's metabolic efficiency. For those who want to lose weight, aerobic exercise is more necessary to break down fat in the body. Less than 30 minutes, insist on three to four times a week.

Through the above analysis, we learned that as long as you eat a reasonable diet, corn flakes will not gain weight. The Corn Flakes Making Machine can produce different types of corn flakes, and everyone can change their tastes. In addition, in daily life, pay attention to the several methods mentioned above to prevent weight gain, which will be of great help to you.

What are the advantages of the corn flakes production line?

1. The corn flakes making machine is made of food-grade stainless steel, which is durable and has a long service life.
2. The corn flakes making machine adopts PLC control system, the operation is very simple and the workers can easily get started after simple training.
3. The production method of the corn flakes making machine is fully automatic and the production efficiency is very high.
4. The corn flakes making machine adopts energy-saving design, and the energy consumption is low in the production process, which can reduce the production cost.
5. The corn flakes making machine can process a variety of breakfast cereals and has a wide range of applications.

Corn flakes production lines have outstanding performance and advantages, and the produced corn flakes are of very high quality in practice. The corn flakes making machine consists of a mixer, extruder, dryer, tablet press, oven, seasoning machine, conveyor, packaging machine, each with different uses.



Future of the Corn Flakes Production Line

Corn flakes are long lasting, portable, and can be eaten directly or processed into other foods. It is very popular and has a broad development market. As the corn flakes market grows, the production line technology will continue to advance.

machine for making corn flakes, the corn flake production line also has a broad development prospect.

Under the impetus of science and technology, corn flake making machine has been greatly improved. Overcoming the drawbacks of previous processing methods, corn flakes making machine has more superior performance and can produce higher quality products. It is a very good choice to invest in this area. This is a new development opportunity. The future will have a broader market.

Samples

