

High - Capacity Fully Automatic Coated Nutrition Bar Production Equipment

Detail Introduction :

Introduction of coated nutrition bars

Market demand for coated nutrition bars

Coated nutrition bars production line Introduction

Equipment list of coated nutrition bar making machine

Advantages of coated nutrition bar processing line

Why Choose Us

Introduction of [coated nutrition bars](#)

Coated nutrition bars occupy a prominent place in the contemporary health food market. The heart of these bars (pun intended) is a perfect blend of multiple nutritional ingredients. Dietary fiber such as oats, nuts or inulin is another key ingredient that helps promote digestive health and provide a feeling of fullness. The addition of vitamins and minerals improves the overall nutritional value of nutrition bars, making them a convenient and portable option for those seeking a balanced diet.

There are many different types of coatings, with chocolate coating being perhaps the most popular. Its rich and mellow flavor appeals to many consumers. Yogurt coatings have also gained significant attention. They add a rich and creamy flavor to energy bars and are often paired with probiotics, which are beneficial for intestinal health. Caramel coatings are popular for their sweet and sticky taste and are often used, especially when paired with nut fillings, to create a mouth-watering flavor combination.

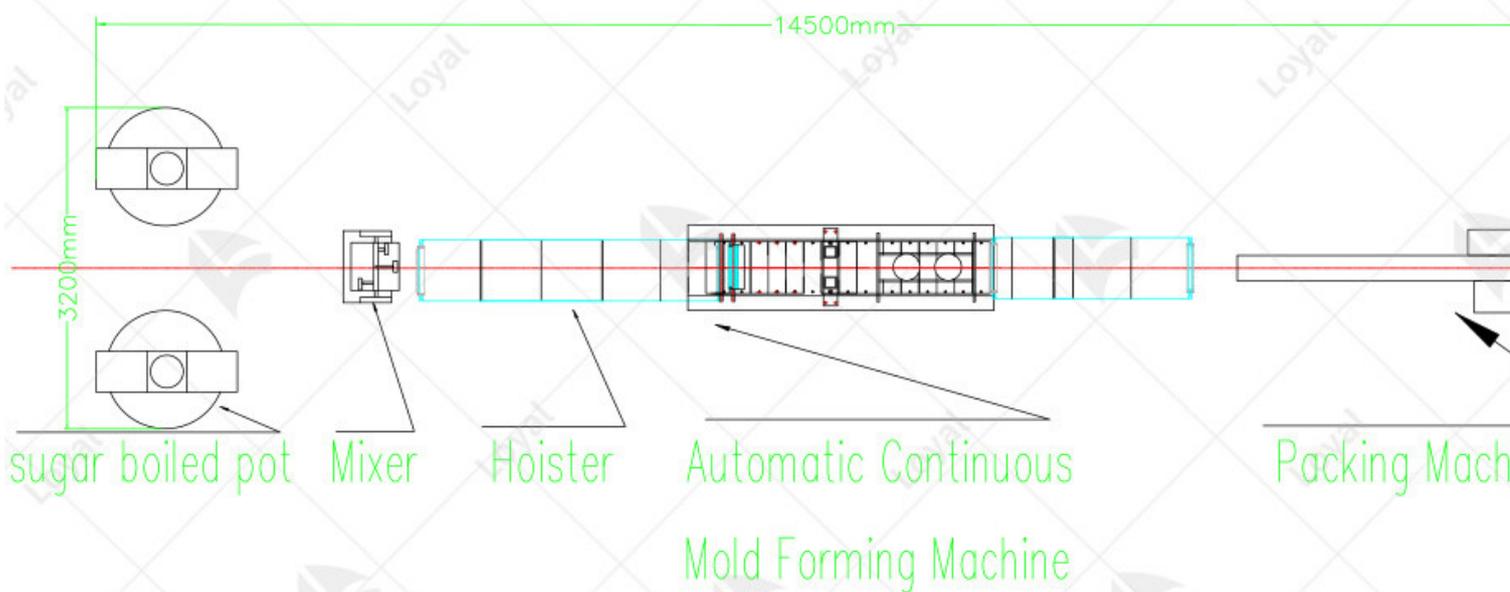


Market demand for coated nutrition bars

The market demand for coated nutrition bars is growing significantly. Fitness enthusiasts and athletes constitute the main consumer group. For them, these nutrition bars are a post-workout recovery snack and a convenient source of quick energy during training. The high protein content helps muscle recovery, while the balanced nutritional profile provides the necessary energy. On the other hand, health-conscious individuals appreciate the convenience of pre-portioned, nutritious snacks. They can easily incorporate these bars into their daily diet to meet their nutritional needs, especially when time is of the essence. Moreover, with the increasing prevalence of busy lifestyles, more and more consumers

choosing these bars as a substitute for traditional meals or snacks, which further drives the growth of the market.

With the growing market demand and the diversification of coating options, the need for efficient production has become essential. High-capacity fully automated coated nutrition production lines have emerged. These advanced production systems are designed to meet the growing market demand while maintaining strict quality control. They can handle complex processes, including making nutritious fillings, accurately applying various coatings, and efficient packaging. The ability to switch between different coating options and filling recipes with relative ease makes these lines highly flexible and able to meet the changing consumer preferences in the coated nutrition bar market.



Coated nutrition bars production line Introduction

Protein bar extrusion line is our new designed machine for making protein bar, date bar, energy bar, nutrition bar, fruit bar, etc. The multi row protein bar extrusion machine is controlled with touch screen, speed adjustable. Nutrition bar making machine consists of a roller with 6 wheels, a flattening machine, a cooling conveyor cabinet, a forming machine, and a slicer.

Equipment list of coated nutrition bar making machine

sugar boiled pot? mixing machine? hoist? automatic cereals bar cutting machine? coating machine? packing machine

1. Sugar Boiled Pot

In the coated nutrition bars production line, the sugar boiled pot plays a crucial role in preparing the coating materials, especially those based on sugar-containing substances like caramel coatings. It heats and melts sugars, along with other ingredients such as corn syrup, etc., to the appropriate consistency. By precisely controlling the temperature and cooking time in the sugar boiled pot, the desired texture and flavor of the coating can be achieved. For example, when making a caramel coating, the sugar boiled pot is used

cook the sugar until it reaches the right stage of caramelization, which gives the coating its characteristic color, sweetness, and stickiness.

2. Mixing Machine

The mixing machine is essential for creating the core of the nutrition bar. It combines a variety of ingredients including proteins (such as whey protein, soy protein), fibers (from oats, nuts, or inulin), vitamins, minerals, and other additives. With powerful agitators and often variable - speed settings, the mixing machine ensures thorough and homogeneous mixing. This is vital as it guarantees that each bite of the nutrition bar contains the right balance of nutrients. For instance, in a protein - based nutrition bar, the mixing machine evenly distributes the protein powder with other ingredients like dried fruits, nuts, and flavorings to create a consistent and nutritious core.

3. Hoist

The hoist is used to transport materials between different levels or stations in the production line. After the ingredients are mixed in the mixing machine, the hoist can lift the blended mixture to the next processing station, such as the automatic cereals bar cutting machine. This helps in maintaining a smooth and continuous production flow, reducing the need for manual handling and minimizing the risk of contamination. In a multi - level production facility, the hoist efficiently moves materials from a lower - level mixing area to a higher - level shaping or coating area, ensuring that the production process is streamlined.

4. Automatic Cereals Bar Cutting Machine

Once the core material of the nutrition bar is prepared and possibly shaped into a continuous log or sheet, the automatic cereals bar cutting machine comes into play. It precisely cuts the material into the desired size and shape of individual nutrition bars. The machine is programmable, allowing for different bar lengths, widths, and thicknesses to be set according to the product specifications. This ensures uniformity in the size of the bars, which is important for both portion control and packaging. For example, it can cut long extruded strips of cereal - based core material into perfectly sized rectangular bars ready for the coating process.

5. Coating Machine

The coating machine is responsible for applying the outer coating to the nutrition bars. It can use various methods such as spraying, dipping, or enrobing to evenly coat the bars with materials like chocolate, yogurt, or other flavored coatings. The coating not only enhances the taste and appearance of the nutrition bars but also provides a protective layer. In the case of a chocolate - coated nutrition bar, the coating machine ensures that the chocolate is applied evenly over the entire surface of the bar, creating an attractive and delicious finish.

6. Packing Machine

The packing machine is the final step in the production line. It automatically wraps each individual coated nutrition bar in suitable packaging materials, which can include foil, paper, or biodegradable options. The packing machine cuts the appropriate amount of packaging material and seals the bars, ensuring they are protected and ready for distribution.

material, seals it around the bar, and may also apply labels or product information. This not only protects the nutrition bars from damage, moisture, and oxidation during storage and transportation but also makes them ready for distribution to the market. For example, a high-speed packing machine can wrap hundreds of nutrition bars per minute, ensuring efficient and hygienic packaging.



Advantages of coated nutrition bar processing line

1. High production efficiency

(1) Continuous operation: All links of the production line are closely connected, from the automatic conveying and mixing of raw materials to the forming, coating and wrapping.

nutrition bars, and finally packaging, all of which are fully automated and run continuously. For example, under the precise control of the automation system, the raw materials are continuously fed into the mixer without frequent manual intervention, which greatly saves production time and can produce thousands of nutrition bars per hour to meet large-scale market demand.

(2) Quick switching of product specifications: The production parameters can be quickly adjusted through program settings to achieve production switching of nutrition bars of different sizes and shapes. For example, to switch from producing square nutrition bars to round nutrition bars, you only need to enter new mold parameters and production instructions in the control system, and the equipment can automatically complete the adjustment and quickly put into production of new specifications of products, greatly improving the production response capacity.

2. Guarantee high product quality

(1) Accurate raw material ratio: The high-precision automatic batching system is used to accurately control the amount of each raw material, with minimal error. Taking the addition of nutrients such as protein, vitamins, and minerals as an example, the system can accurately mix various raw materials according to the preset formula to ensure that the nutrients in each nutrition bar are highly consistent, providing consumers with stable and reliable nutritional supplements.

(2) Stable process control: During the production process, key process parameters such as temperature, pressure, and time are precisely controlled. In the coating process, the intelligent temperature control system is used to ensure that coating materials such as chocolate and yogurt are at the optimal operating temperature, so that the coating is uniform, smooth, and firmly attached, improving the appearance quality and taste stability of the product.

3. Significant energy-saving advantages

(1) Efficient and energy-saving equipment: Energy-saving motors, advanced heating and cooling systems, and intelligent control systems are used to reduce energy consumption. For example, energy-saving motors can save a lot of electricity compared to traditional motors while ensuring efficient operation of the equipment; intelligent control systems can automatically adjust the power of equipment according to production needs to avoid energy waste.

(2) Optimize production processes: Reduce unnecessary energy consumption links by reasonably arranging production lines and optimizing production processes. The material conveying path has been carefully designed to reduce energy loss during transportation. The compact arrangement of production processes shortens the overall production time and indirectly reduces energy consumption. According to calculations, compared with traditional production lines, such high-efficiency and energy-saving production lines can reduce energy consumption by 20% - 30%, effectively reduce corporate operating costs, and comply with the concept of sustainable development.

3. Health and safety guarantee

Fully enclosed production environment: The production line adopts a fully enclosed design and materials are transported and processed in closed pipes and equipment, which reduces contact with the external environment and reduces the risk of intrusion of pollutants such as microorganisms and dust. The internal surface of the equipment is made of food-grade stainless steel, which is smooth and easy to clean, and not easy to breed bacteria.

4. High production flexibility

(1) Multiple formula production: The formula of nutrition bars can be flexibly adjusted according to market demand and consumer preferences. Whether it is a high-protein formula for fitness people or a formula rich in vitamins and minerals for children, the production line can easily switch the production of nutrition bars with different formulas by adjusting the material delivery ratio and mixing procedures, helping companies to quickly respond to market changes and launch diversified products.

(2) Customized product production: It can meet customers' customized needs for products such as customizing special packaging forms and adding personalized logos. In the packaging process, by adjusting the parameters of the packaging equipment, the application of packaging of different specifications and materials can be achieved, providing strong support for enterprises to expand the market and enhance brand competitiveness.



Why Choose Us

We are a professional manufacturer of food machinery and we have been manufacturing nutrition cereal bar processing line for nearly 20 years. In addition to the Nutrition Cereal Bar snack processing line, we also manufacture lines for deep-fried food, pet feed, milled starch and many more. Each of our lines has basically a variety of moulds, which can

adapted to produce a wide range of food products. We are not satisfied with the status quo but are constantly upgrading and innovating our products, adapting our production plant designs to the changing needs of the times and keeping up with the pace of progress. We are satisfied with the pursuit of excellence!

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