

## What Is The Working Principle Of The Degradable Rice Straw Production Line?

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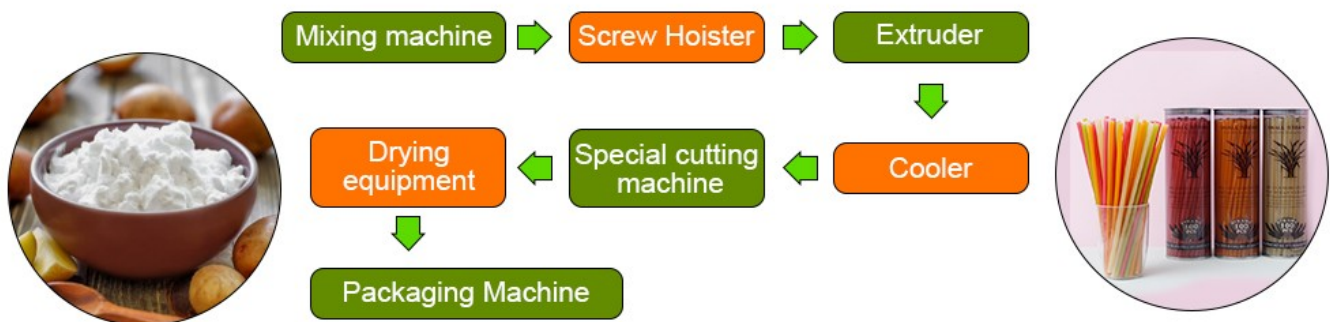
The rice straw is made of rice and cassava (cassava is the raw material for making pearls in bubble milk tea. And it can make the straw strong and tough, and the surface is smoother). At the same time, it is made by the puffing extrusion process. Its appearance is no different from ordinary plastic straws. The surface of rice straws is smooth, strong and tough. Compared with ordinary plastic straws, degradable rice straws can be eaten directly. It tastes crunchy and tastes like rice crispy rice. The raw materials can also be adjusted to make straws of different colors. The rice straw made by the puffing extrusion process can be soaked in hot drinks for 2 to 3 hours. It can last longer in cold drinks, up to 5 to 10 hours. And the rice straw can be completely degraded, which is more friendly to the ecological environment, and can be used as a substitute for plastic straws. It will not pollute the environment like plastic straws, and it also meets the requirements of multinational regulations.



The automatic rice straw equipment is made into blanks of various sizes by a single screw

extruder, and then dried to form a straw with a smooth surface and a realistic shape. Our unit screw combination technology and control of the biodegradable drinking rice straw making production process can make your choice of raw materials wider. Higher product quality and more variety. A single screw extruder can complete the process of mixing, kneading, cooking, and extrusion.

Edible straw production process: Raw Material Configuration-Raw Material Mixing-Extrusion Molding-Hot Air Drying-Cutting



### Process Composition Of Automatic Rice Straw Production Line

1. Flour mixing machine: separate rice noodles or mix with some additives, add a certain amount of water and mix well.
2. Feeding machine: The motor is used for screw conveying, and the mixed raw materials are conveyed to the feeding hopper of the extruder to ensure convenient and fast feeding.
3. Extruder: There is a special control cabinet, which can extrude rice particles in a high-pressure environment, adjust the process and change the mold to produce rice grains of different shapes.
4. Oven: The oven is mostly an electric oven. The temperature is adjusted between 0-200 degrees through the control cabinet. The inside is a stainless steel double-layer mesh bag. The baking time can be adjusted according to the speed, minus the product moisture and increase the shelf life;
5. Cutting machine: single cutting according to size.



Edible straws have become a hot spot for research and development. Edible biodegradable rice straws that replace plastic straws must have the following characteristics: they are not easy to soak, not easy to taste, and low in price. According to this market feature Shandong Loyal Industrial Co., Ltd has researched and developed edible rice straw production equipment. The fully automatic edible straw making production line mainly uses rice, tapioca rice noodles, etc. as raw materials and uses a unique extrusion molding process to produce popular secondary puffed foods of various shapes on the market. The degradable rice straw making procession line has reasonable design, high degree of automation, precise control of extrusion parameters, and the host is equipped with high and low pressure screws, which increases the use range of raw materials, reduces costs, and improves product quality. This disposable drinking rice straw processing line adopts internationally advanced twin-screw extrusion technology, combined with the company's years of experience in expanding technology. And it is a new type of expanded food equipment designed and manufactured to meet the needs of food and related industries. The series twin screw machine is composed of feeding system, extrusion system, rotary cutting system, heating system, transmission system and control system.

