

How to choose an extruder?

Introdução detalhada :

Reference

Currently, our company offers a variety of extruder models. Depending on the product requirements, the equipment configurations can be categorized as follows:

LTE cold extrusion series, AHE twin-screw extruder, AHT series twin-screw extruder, series twin-screw extruder, AFE series twin-screw extruder, SLT series twin-screw extruder, AEE series triple-screw extruder, etc.

We can recommend the appropriate equipment based on your product, production volume and equipment requirements.



Advantages of twin-screw extruders:

1. They offer a wider range of raw material adaptability. They can process high-viscosity, low-viscosity, high-moisture, or viscous raw materials, as well as other raw materials that would slip in single-screw equipment.
2. They have fewer restrictions on raw material size. They can process raw materials with a wide range of particle sizes (from fine powders to coarse powders) and raw materials

particle sizes outside the specific range of single-screw extruders.

3. More uniform material flow within the barrel allows for precise mixing and achieving desired effect during processing, regardless of the addition of steam, water, or other additives.

4. Improved product internal and external quality is achieved, achieving excellent homogeneity and a uniform molecular structure. During extrusion, the product surface is smooth, the particles are highly uniform, and the uniformity is excellent.

5. Better maturation and homogenization are achieved, typically achieving a starch maturation degree exceeding 95%.

6. Higher output is achieved at the same power level. The excellent mixing performance allows for timely homogenization of the heat absorbed by the material, accelerating maturation and increasing the yield of extruded products.

7. Easier operation allows for adjustable spindle speed according to product requirements. The self-cleaning feature facilitates cleaning, eliminating the need to disassemble the machine after each process.

8. Less wear on wearing parts. There's a common misconception that single-screw extruders experience less wear. In fact, during twin-screw extrusion, due to the stable material conveying and flow characteristics, material wear on the screw and barrel lining is less than with a single-screw. Although twin-screw extruders have one more screw, the component costs are still lower.

9. Lower production costs. Due to their excellent operational stability, twin-screw extruders offer lower startup costs, less water and gas waste, less labor, higher heat transfer efficiency, higher yield rates, and higher electricity output during feed processing. Combined with lower component costs, their final production costs are still significantly lower than those of single-screw extruders.



Company Profile

The company covers a total area of ??100 mu (approximately 16 acres), serves over customer factories worldwide, and sells products to 118 countries and regions. We have a professional team with over 30 years of industry experience. We have been awarded numerous honors, including "3A-level Contract-Abiding and Trustworthy Enterprise" and "High-tech Enterprise."

R&D Strength

The company boasts a dedicated team of product developers and a fully independent "Extrusion Technology R&D Center," providing customers with food process research, formulation development, and application support. We prioritize new product development and stable production, conducting numerous product development projects annually and collaborating with customers on new product development. We have partnered with numerous universities and research institutes to collaborate on new product development.

After-Sales Service

The company boasts a comprehensive after-sales team:

After project completion, the after-sales team regularly follows up with customers, providing professional analysis, timely feedback, and 24/7 online consulting services to answer questions they may have during use.

The machine and parts come with a one-year warranty, and there are lifetime discounts on spare parts.

A dedicated maintenance consultant will establish contact with equipment maintenance personnel and provide long-term technical support for ongoing maintenance.



Reference

The following are five authoritative foreign literature websites in the field of Industrial machinery:

1. Food Engineering Magazine

Website: <https://www.foodengineeringmag.com/>

2. Food Processing Magazine

Website: <https://www.foodprocessing.com/>

3. Journal of Food Engineering

Website: <https://www.journals.elsevier.com/journal-of-food-engineering>

4. Food Manufacturing Magazine

Website: <https://www.foodmanufacturing.com/>

5. International Journal of Food Science & Technology

Website: <https://onlinelibrary.wiley.com/>