Features of the Nutritional Powder Production Line

Detail Introduction :
The following is the production process of the nutritional powder production line:
Advantages of the Nutritional Powder Production Line:
Reference
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Nutritional powder is a powdered product made from various grains, cereals, legume puffable ingredients used for both medicinal and edible purposes, extruded under hig temperature and high pressure, and then refined through further processing.
The main raw materials are various grains, cereals, legumes, and edible and medicin foods, such as corn, rice, oats, red beans, peanuts, yams, and red dates.

The following is the production process of the nutritional powder production line:
1. Loading System: This system can be equipped with one or more storage silos to s different types of raw materials. Raw materials pass through the feeding station and a conveyed by vacuum and negative pressure to the corresponding storage silos for subsequent use.
2. Batching System: An auger conveyor is installed below the storage silo, and a batc scale is located directly below the auger. It automatically weighs the ingredients acco the pre-set weight of the recipe.
3. Mixing System: This system is equipped with a high-efficiency paddle mixer that us negative pressure air conveying to convey materials from the batching scale to the m automatic mixing.
4. Extrusion System: The mixed raw materials are conveyed via negative pressure ai loss-in-weight feeder. From there, they are metered into the extruder under PLC cont Simultaneously, a liquid feeder injects a predetermined amount of water. Under the h temperature, high-pressure extrusion of the twin-screw extruder, the raw materials ar produced.
5. Drying System: The extruded product is dried to a moisture content of less than 10 facilitate subsequent crushing.
6. Crushing System: A fully automatic crushing system is available, capable of crushi different products as required.

Advantages of the Nutritional Powder Production Line:
1. Customizable production lines can be customized to meet the needs of individual customers, enabling them to produce a wide variety of products.

2. Utilizing the latest automated control system, the system achieves high energy effi
and effectively reduces unnecessary energy loss.
3. The production process achieves near-zero waste emissions, in line with the princi
green industrial development in modern industry.
4. Every component of the equipment undergoes rigorous testing to ensure it meets
exceeds national standards.
Market Applications
Nutritional powders can be formulated with various nutrients to meet the nutritional ne
individual consumers.

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/