

Soy Protein Concentrate Production Line

This production line efficiently processes low-temperature soybean flakes into food-grade or feed-grade soy protein concentrate. The system utilizes alcohol extraction, extrusion, desolventizing, drying, and milling to produce high-quality SPC while minimizing pollution.



Product Overview

Industrial Soy Protein Concentrate System

This high-capacity production line is designed for the efficient manufacturing of food and feed grade soybean protein concentrate (SPC) from low-temperature soybean flakes. Utilizing an advanced alcohol extraction process, the system separates water-soluble components without generating air or water pollution. It offers a sustainable, environmentally friendly solution for processing up to 50,000 tons of product annually.

Production Capacity

Annual Capacity

50000 tons

Production Capacity

Process Materials

Primary Feedstock	Low-temperature soybean flakes
-------------------	--------------------------------

Product Output

Primary Products	Food grade SPC, Feed grade SPC
By-Products	Soybean syrup

Applications

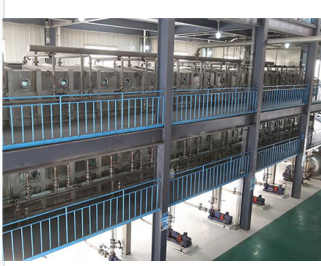
Food Grade Uses

- Flour-based food additives
- Meat product additives
- Health care products (approx. 70% protein)

Feed Grade Uses

- Baby pig fodder
- Aquatic livestock feed
- Calf feed
- Pet food

Technical Components



Primary extraction system with multi-tiered reactor design.



Horizontal vessel for efficient desolventizing and drying.



Evaporation and concentration unit for by-product processing.



Advanced grinding and packing system for final protein product.

System Components

- Extractor
- Extruder
- Horizontal desolventizer
- Vertical dryer
- Evaporation and concentration system for syrup
- Ethanol steam condenser
- Exhaust gas recovery system
- Protein conveying and cooling system
- Protein smashing and packing system