

## Investment analysis and basic cost of setting up starch processing equipment factory

### — .roots Starch processing investment status

Sweet potatoes, potatoes, cassava, kudzu root, plantain taro, acorns, peas, lotus root, wheat and other crops are rich in starch, protein, pectin, cellulose, amino acids, vitamins, etc., as well as a variety of minerals, with extremely high taste and nutritional value.



In our country, there are different areas of planting. More and more potato farmers are relying on the national poverty alleviation policy to gradually develop into the field of starch deep processing, and a standardized industrial cooperation model such as "enterprise company + planting cooperative + poor households" has emerged , And gradually formed a good style of regionalization, intensive and large-scale starch processing industry. This is undoubtedly a driving force for potato planting, potato starch processing, and potato vermicelli vermicelli processing. It is conducive to industrial development and implements the purpose of the national poverty alleviation policy.



**二 . The following points should be considered when investing in starch processing equipment**

1. Raw materials: sweet potatoes, potatoes, cassava, kudzu, plantain taro, acorns, peas, lotus root, wheat and other processed crop raw materials.
2. Land planting area: a stable source of raw materials for potato processing, a broad planting area of raw materials or an area where planting may be developed.

3. Funds: Mainly include infrastructure, starch processing equipment, manpower, working capital, etc. The amount of equipment investment is affected by three major factors: automation, processing technology, and



- manufacturing materials.
4. Water source: The processing of starch requires sufficient and clean water source, which is the basic prerequisite and guarantee for the development

of starch deep processing projects.

5. Electricity: environmentally friendly and hygienic electric energy meets the requirements of green and environmentally friendly processing technology. Therefore, the improvement of power infrastructure has greatly promoted the smooth development of starch deep processing projects.

6. Gas: heating and energy supply methods such as standard coal, gas, natural gas, and electricity. In order to avoid coal-burning pollution, environmentally friendly processing methods such as electromagnetic

heating technology are used as much as possible.



### ≡.Investment in starch processing equipment cost profit

Take the automatic sweet potato starch production line processing 1 ton of dry starch as an example. It takes 5 tons of sweet potatoes and 10-15 tons of water.

【cost】 :

1. Raw material (sweet potato): 5 tons of sweet potato, with a market price of 0.35-0.4/kg. Cost:  $5000 \text{ kg} \times 0.7 \text{ yuan / kg} = 3500 \text{ yuan}$
2. Water consumption: cost 3 yuan/t, 5 tons of sweet potato water use 10-15 tons, water fee:  $10\text{t} \times 3 \text{ yuan/t} = 30 \text{ yuan}$
3. Electricity: 150-200 kw/h, 0.5-1 yuan/kWh (note that the price of agricultural electricity and industrial electricity is different). Electricity fee:

150 kw/h×0.5 yuan/kWh=75 yuan

4. Labor: 6 people/class×100 yuan/person ÷ 8h=75 yuan

5. Fuel (coal): 100 kilograms of coal for drying 1 ton of starch, 1,000 yuan for 1 ton of coal. The coal cost is 100 yuan.

6. Direct production cost = raw materials + water fee + electricity fee + labor + fuel = 3780 yuan.

7. Other expenses: depreciation, taxes, etc. are calculated based on the actual situation of each user's location. The profit is based on the actual sales at the local market price, and the net profit is subtracted from the cost.

[Note: Due to the different market conditions of sweet potato starch processing across the country, the price of sweet potato, water and electricity costs, labor costs, and starch price standards are different, and the economic benefits of starch production will vary. Therefore, the data in this article is for reference only, please calculate according to the local market price. ]



4. Requirements for plant construction for investment in starch processing equipment (there are generally 5 specific requirements for choosing a plant address)

① Choose to be close to the origin of the raw materials, the product sales market and the surroundings of the farmer's market.

② Choose convenient transportation, close to the potato production base, and the fresh potato raw material planting place close to the highway for transportation.

③ Choose close to the water quality (soft water, no pollution, no source of disease, and meet the quoted water quality standards), sufficient water volume, better water from deep wells or rivers, convenient drainage, and no pollution around.

④ Choose close to the power source, with complete water and electricity facilities, sufficient power supply, and reliability of power supply.

⑤ Requirements for the construction conditions, topography and land area of the factory: the topography, size and slope of the factory should be conducive to transportation, water supply, drainage, and be compatible with the process characteristics of the processing operation.

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