

Main machine of 5tpd soybean oil refining production line

soybean oil processing business



The 5tpd soybean oil refining production line belongs to intermittent refining in terms of refining type, and usually uses chemical refining technology. The processes involved include degumming, deacidification, decolorization and deodorization. Through four processes, various impurities in soybean crude oil are removed to meet the standards of refined oil.



Degumming section

Refining tank: By adding hot water, the colloid phospholipids in the soybean oil absorbs water, expands and condenses, which is convenient for subsequent separation.

Hot water mixing box: There is a mixing box of alkali solution and hot water. Hot water is used to remove colloid-soluble impurities in oil.

Separation equipment: Centrifuges or sedimentation tanks are used to separate hydrated colloid precipitates and improve the clarity of oil products.

Deacidification section

Alkali refining tank: Under heating, add an appropriate amount of NaOH to neutralize the free fatty acids in the oil and reduce the acid value.

Neutralization reactor: Ensure that the acid-base reaction is fully carried out.

Separation equipment: Sedimentation tank can separate the neutralized soap stock from the oil.



Decolorization section

Decolorization tank: Decolorization tank is usually the tool used in soybean oil refining process to remove impurities such as pigments, metals, and residual soap from the soybean oil. Inhale definite amount of decoloring agent (white clay) into the refined soybean oil, continuously stirring and heating for a period of time.

Filter: After that, pump the mixture of oil and white clay into filter to separate oil and waste white clay, ensuring the quality of the oil.

Deodorization section

The soybean oil deodorization section uses steam distillation to remove odorous substances in oil under high temperature and high vacuum conditions. The general operating temperature can reach 200°C.

Deodorization tower: Steam is introduced under appropriate air pressure, and the difference in volatility between odorous substances and triglycerides in oil is used to remove odorous substances under high temperature and high vacuum conditions by means of steam distillation.

Vacuum pump: It provides a vacuum environment for the deodorization and decolorization sections to ensure that the deodorization process is carried out in a low-oxygen environment, improving the deodorization efficiency and oil stability.

Cooling system: The deodorized oil needs to be cooled quickly to prevent oxidation and maintain the quality of the oil.



Overall, soybean oil refining equipment plays a crucial role in the soybean oil refining production line, ensuring that the final product meets quality standards and is suitable for various applications in the food industry. As a supplier of soybean oil production line in the industry, Henan Glory Company can provide solutions from equipment selection, production line design to installation and commissioning, helping companies to produce soybean oil efficiently and safely.



What preparation does it take to start a soybean oil processing business?



When you want to start a new business, you must do some preparations for it for ahead, so is starting a soybean oil processing business. As professional soybean oil processing machine manufacturer, we will briefly introduce what preparations you need to do in detail. If you have plan to start the soybean oil processing business, also welcome you to contact us any time.

1. Soybean oil market research preparation

The first preparation is that you need to research the selling price of soybean oil. The price difference between crude soybean oil and refined soybean oil determines the product type. The price of soybean oil determines the sales of the product. Whether you want to sell it to supermarkets or local farmers determines the quality of the product, so you must choose the right one according to your actual situation.

2. Raw materials preparation

The second preparation is the supply of raw materials. Do you grow soybeans yourself or buy soybeans from others? If you buy soybeans from someone else, you need to know how much 1 ton of soybeans costs and how much soybean oil you can produce every day.

3. The preparation of purchasing soybean oil processing machine

The third is how much you are prepared to invest in the soybean oil processing machines. The cost to start a soybean oil processing business depends largely on how much money is invested in soybean oil processing machine. You can confirm the appropriate soybean oil processing machine based on the soybean oil processing volume. Confirm the approximate machine price by comparing. Then see if you have the ability to bear the soybean oil processing machine required for this processing volume. If you need to make specific cost plans to grow your soybean oil processing business,

4. Soybean oil production plant preparation

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The fourth preparation is factory land. If your soybean oil processing volume is small, you can find a space and build a simple shed. If you decide to have a soybean oil production line, you need to build a factory. In addition to the workshop area required for processing machines, you must also consider the area for stacking raw materials and storage oil tanks, as well as all the auxiliary equipment space required for the overall process. As a professional soybean oil processing machine manufacturer, we Company can provide you with appropriate advice and guidance, and then it is necessary to choose the right factory area according to your own situation.

5. Soybean oil project preparation

Finally, you need to prepare the launch of soybean oil processing business. If you have enough funds and have completed the research on the above issues, you can ask the manufacturer to provide a plan. After confirming the plan, you can start buying soybean oil processing machine and building the plant, and you can start installation and production. If you need a loan, then you need to provide a feasibility report or a series of information to the bank. The specific loan process is subject to local policy requirements.

In short, you need to be prepared as mentioned above to start a soybean oil processing business. If you need us to help you make a specific cost plan for developing soybean

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oil processing business, we have rich experience in designing the process and manufacturing the soybean oil production machines. Believe that we will provide you with the best equipment and services.