

Vegetable Oil Refining Production Line

This vegetable oil refining line refines various oils, including soybean, rapeseed, cottonseed, peanut, sunflower seed, maize germ, and rice bran oil. The production line features a capacity of 30-1,000 tons of crude oil per day and is able to eliminate plasticizer (DEHP) pollution and prevent the formation of trans fatty acids (TFA).



Overview



Centralized control system for monitoring and optimizing refining parameters.

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This advanced vegetable oil and fat refining line is designed for high-efficiency processing of various crude oils, including soybean, rapeseed, cottonseed, peanut, sunflower seed, maize germ, and rice bran oils. The system supports both chemical and physical refining technologies, allowing for flexible adaptation based on the specific type and grade of crude oil. Engineered to meet modern quality standards, the line effectively eliminates plasticizer (DEHP) pollution and prevents the formation of trans fatty acids (TFA) during the refining process.

Capacity & Compatibility

Daily Processing Capacity

30 tons/day

Minimum Capacity

1000 tons/day

Maximum Capacity

Compatible Oil Types

Soybean Oil, Rapeseed Oil, Cottonseed Oil, Peanut Oil, Sunflower Seed Oil, Maize Germ Oil, Rice Bran Oil

Refining Processes

Refining Technologies

Chemical Refining • Physical Refining

Process Workflow

- Degumming
- Neutralization
- Bleaching
- Deodorization
- Dewaxing

Technical Equipment



Degumming and Neutralization section featuring specialized reactors and separation units.



Bleaching section equipment for pigment removal and precision filtration.



Deodorization tower designed for efficient odor removal and vacuum-based processing.

Degumming & Neutralization Equipment

- Mixer
- Reactor
- Heat Exchanger
- Acid/Alkali Dosing Device
- Separator
- Vacuum Dryer
- Vacuum System

Bleaching Section Equipment

- Bleaching Earth Feeder
- Pre-mixer
- Bleaching Tank
- Vertical Pressure Leaf Filter
- Security Filter
- Vacuum System

Deodorization Section Equipment

- Deodorization Tower
- Fatty Acid Collecting System
- Vacuum System
- Heat Exchanger
- Cooler
- Canned Motor Pump
- Thermal Oil Furnace
- Circulating Water System