

Vegetable Oil Extraction Line

This vegetable oil extraction line is designed for processing various oilseeds. It includes extractors, desolventizer-toasters, evaporators, and solvent recycling systems.



Overview



Core extraction processing unit designed for continuous high-volume operation.

Advanced Vegetable Oil Extraction Solution

This comprehensive vegetable oil extraction line offers a robust and automated solution for high-capacity oil processing. Designed for maximum efficiency, the system features a multi-stage workflow including extraction, desolventizing, and solvent recovery to optimize oil yield while minimizing solvent loss. With a flexible production capacity of up to 6,000 tons per day, it is suitable for a wide range of raw materials including soybeans, rapeseeds, cottonseeds, and more.

Performance

Production Capacity

100 t/24h

Minimum Capacity

6000 t/24h

Maximum Capacity

Compatibility

Applicable Raw Materials

Soybeans, Rapeseeds, Cottonseeds, Peanuts, Sunflower seeds, Corn Germs, Rice bran, Palm fiber

System Components



Complex piping and pumping arrangement for high-volume extraction.



Robust desolventizer unit with heavy-duty support columns.



Vertical extraction column optimized for countercurrent extraction.

Major Processing Devices

- Extractor (Rotocel or Drag Chain)
- DTDC (Desolventizer-Toaster-Dryer-Cooler)
- Negative pressure evaporator
- Horizontal stainless pipe bundle condenser
- Filtering system for miscella
- Solvent recycling system
- Water-solvent separation system
- Electrical control system

Automation

Yes

Process Workflow



Integrated filtration system for removing impurities from miscella.

Process Steps

Stage	Description
Extraction	Rotocel or drag chain extraction with adjustable grid trays
DTDC	Desolventizing, toasting, drying, and cooling with energy recovery
Filtration	Removal of solid impurities via centrifugal separation
Evaporation	Solvent removal under vacuum and negative pressure