



KUMAR's CFx EXTRACTOR

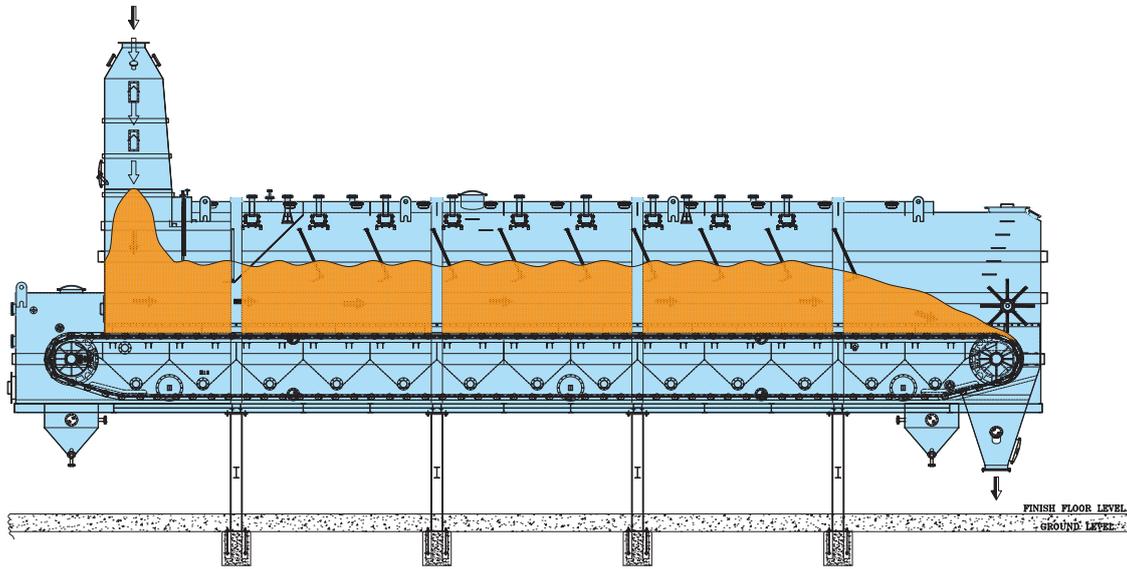


SPECIALISED EXTRACTION FOR OPTIMUM OIL RECOVERY

Joint venture with



Kumar's CFx Extractor extracts oil from prepared raw material using the counter-current flow of miscella at specified operating temperature for a predefined extraction timeline. The miscella feed flowrate design and a specially designed wedge wire screen enable optimum oil recovery.



WORKING PRINCIPLE

Kumar's CFX Extractor is of horizontal construction. It comprises an articulated band conveyor assembly which receives material from the feed hopper and transports it at a very slow predetermined speed from the feed to discharge end. The conveyor moves over rails suitably located within the Extractor and rides on specially constructed sprockets at either end. It has an adjustable damper to regulate the height of the bed of material on the band conveyor.

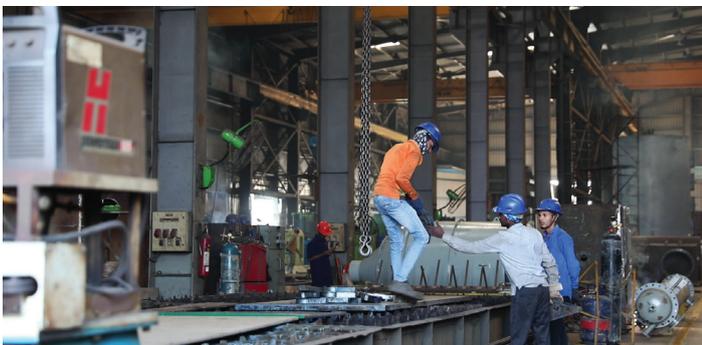
A series of spray breakers ensure the perfect quantity of solvent spray on the moving bed, with liberal provision for light and sight glasses. The band conveyor assembly is designed to act as a filter bed for eliminating fines. The system comprises a wedge wire system with a drum shaft, brush, main drive and a mesh cleaning system.

PERFORMANCE PARAMETERS

- Longer life of moving parts - less preventive maintenance and higher productivity.
- The SS hopper is constructed without welding joints.
- All vapour contact parts are SS increasing longevity of the Extractor.
- Zero maintenance drive system, articulated chain and rail.
- Designed for safe operations, with a snuff steam arrangement and aluminium man holes.
- No-load trials conducted before shipment. Drive platform, proper supports, fixtures and prefabricated side sealing supplied for easy assembly and installation onsite.

FEATURES

- Optimum oil recovery due to well-designed miscella circulation resulting in efficient solvent meal contact and a better percolation system.
- Draining time is designed for low residual solvent percentage in the extracted meal, which reduces the hexane load in the Desolventiser Toaster, and lowers energy cost.
- A high-pressure liquid cleaning system for the screen keeps the band conveyor clean internally and externally to avoid flooding due to choking of wedge wire screen.



ABOUT KUMAR

Kumar Metal Industries is a process engineering company manufacturing advanced Oil Mill, Solvent Extraction and Edible Oil Refining plants for companies all over the world. What started as a small fabrication unit in 1939, has grown into an industry favourite that employs over 400, with 20,000 sqm of factory space spread over two locations.

Through our hard work, integrity and emphasis on superior engineering and service, we've gained the trust of more than 500 customers spread over 60 countries worldwide.



KUMAR METAL INDUSTRIES PRIVATE LIMITED

Turnkey Solutions: Oil Mills | Edible Oil Refineries | Solvent Extraction Plants

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