



PRAGYA PRECISION EQUIPMENT PVT. LTD.

(A UNIT OF : PRAGYA GROUP) · INDORE, INDIA

ISO 9001:2015

Certificate No. Q-205023092808



SOLVENT EXTRACTION MACHINES

Oilseed Preparatory Plant Machinery

Expanders, crackers, flakers, drier and meal coolers, squeezers, bag stackers and the heat transfer equipment around them, for plants from 10 to 1,500 TPD.

EXPANDER / EXTRUDER

INTRODUCTION

Pragya make Expander / Extruder is a special device fitted with unique innovative hydraulic autorun and adiabatic accumulator.

APPLICATION

It is used in vegetable oil plants to increase density and porosity of flakes / cakes to increase the capacity and performance of the solvent extraction plant.

CAPACITY

It is available in capacity from 2 TPH to 50 TPH.

CONSTRUCTION

It is constructed using special grade steel heat treated worms, scraper bolts and steam bolts.



EXPANDER / EXTRUDER



HYDRAULIC AUTORUN ACCUMULATOR



EXPANDER BARREL AND DIE HEAD



EXPANDER BARRELS UNDER ASSEMBLY

DRIER COOLER / MEAL COOLER

INTRODUCTION

Purpose of the drier cooler is to cool the flakes / expander cake. It is assembled with FD and ID blowers, radiators, cyclone and rotary valve. The pressurised air produced by the FD blower passes through the radiators and moves inside the drier cooler. Material moves from inlet to outlet with the help of chain sprocket and SS perforated trays.

CAPACITY

100 TPD to 1500 TPD. Reduces the moisture by 2 - 3%.

CONSTRUCTION

Modular horizontal type single / double pass chain conveyor type. Drive through motors and gearbox.

Size : it depends on the capacity of the drier cooler.

Width : 600 mm to 1800 mm

Height : 1000 mm to 1500 mm

Length : 6000 mm to 18000 mm



DRIER COOLER



MEAL COOLER WITH BLOWERS



DRIER COOLER WITH CYCLONE AND DUCTING



DRIER COOLER WITH FD AND ID BLOWERS



ROTARY VALVE



ROTARY VALVE BODIES UNDER ASSEMBLY



CRACKER MACHINE

INTRODUCTION

Purpose of the cracker is to break stock (soybeans etc.) into smaller pieces. They are used extensively in the oil seed industry in a process step known as 'cracking'.

CONSTRUCTION

Chilled cast rolls of varying diameters, each roll having a grooved pattern. It is fixed in a set of 2 rolls — two rolls at the top and two at the bottom with different groove patterns. A feeder is used to spread the feed uniformly across the rolls; this ensures the cracker is operating at maximum capacity and also promotes even wear across the rolls.

SPECIFICATION

- Capacity : 10 to 500 tonnes / day
- Rolls material : chilled cast iron
- Design : grooved & balanced
- Quantity : 2 pairs
- Magnet plates provided to safeguard the rolls
- Inspection glass window to see the flow of material



CRACKER MACHINE



CRACKER MACHINE, GUARDED



CRACKER UNDER ASSEMBLY



CRACKER WITH FEED HOPPER

FLAKER MACHINE

INTRODUCTION

Purpose of the flaker machine is to reduce the thickness of the cracked seed with the help of rolls.

APPLICATION & ITS CONSTRUCTION

The flaker itself consists of a single pair of smooth rolls with a small operational clearance between the two. The cracks enter the flaker from a feed hopper; they then pass between the flaker mill rolls where they are pressed flat. This process is known as flaking. For soybeans, this is the final preparation stage prior to solvent extraction. It should be noted that the rolls have an operational clearance, but are mounted with no clearance at all. Ideally, the flakes should have a thickness of between 0.25 mm and 0.40 mm, but the exact thickness depends upon the type of extractor used.

SPECIFICATION

- Capacity : 10 to 400 tonnes / day
- Magnet plates provided to safeguard the rolls
- Roll sizes up to 800 x 1500 mm



FLAKER MACHINES, TWIN INSTALLATION



FLAKER MACHINE WITH THE ROLL DOOR OPEN



800 X 1500 MM FLAKER MACHINE



BREAKER ROLLS

HYDRAULIC BAG STACKER

INTRODUCTION

We have pioneered in design and have developed an innovative hydraulic bag stacker. Its capacity is 25 to 100 TPH and it can help in stacking bags in a godown up to 25 feet high. This is a light weight portable belt conveyor which moves up & down with a telescopic hydraulic cylinder. It also helps in loading trucks at very high speed and especially when railway racks are to be loaded.



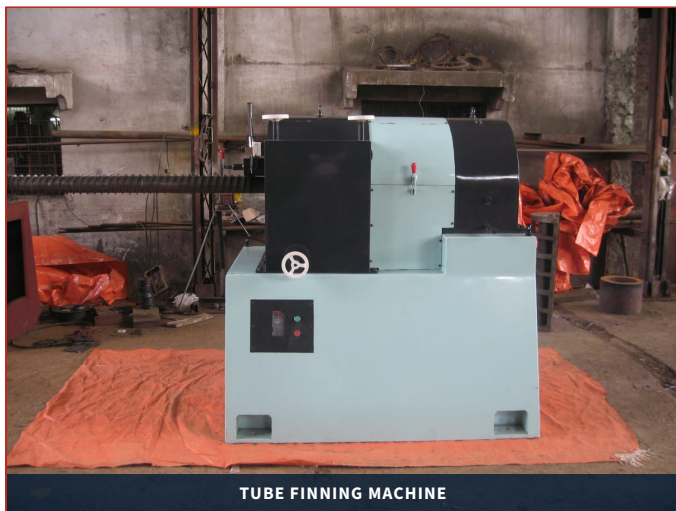
HYDRAULIC BAG STACKER



SCREW CONVEYOR

TUBE FINNING MACHINE & FIN TUBE RADIATORS

Fin tubes are wound at variable pitches from 2 FPI to 10 FPI, on tube from 8 mm to 100 mm outside diameter.



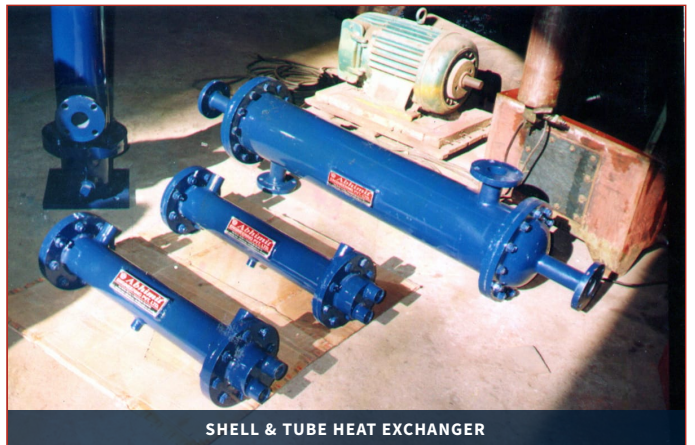
TUBE FINNING MACHINE



FIN TUBES — VARIABLE PITCHES 2 FPI TO 10 FPI



FINNED TUBE RADIATOR COIL



SHELL & TUBE HEAT EXCHANGER

OUR MAJOR CLIENTS FROM SOLVENT EXTRACTION INDUSTRIES



Kosha Metal Tehran ,Iran	Indian Soya Industries	Noble Grain India Pvt Ltd.	K. K. Protein Pvt Ltd.
Mathura Extraction	Radha Krishna Extraction	Sharda Solvent Ltd.	Sneha Foods & Feeds
Suneed Oil, Malavi	Suruchi Foods Pvt Ltd.	Swadist Oil Pvt Ltd.	Mentora Oil Products
Agro Solvent Pvt Ltd.	Durga Shakti Foods Ltd.	Murliwala Agrotech P Ltd.	Shrinivasa Agro Foods
Continental Milkosh India	Midex Global Pvt Ltd.	Shrinivasa Soya Products	Indo Prosoya Foods P Ltd.
Narmada Solvex P Ltd.	Kanpur Edible Pvt Ltd.	Mectech Process Engg.	Bansal Solvent Pvt Ltd.
Deegee Orchades Ltd.	Itarsi Oils & Flours Ltd.	Oilex Engg. India P Ltd.	Khandwa Oil
Bhaskar Exoils Ltd.	Kirti Agro Tech Ltd.	MP Agro Foods Ind Ltd.	Omshree Agro Foods Ltd.
Shri Siddhi Rameshwar	MP Glychem Ind Ltd.	Suman Syndets (Export)	Bharti Extraction P Ltd.
Shiv Shakti Extraction	Maharastra Oil Extract.	Malwa Vanaspati & Ch.	Maharastra Solvent
Khalsa Overseas Ltd.	Kamal Solvent Extrac. Ltd.	Mavan Fats & Protine	Param Industries Ltd.
Narsingh Extraction Ltd.	General Foods Ltd.	Dewas Soya Indus. Ltd.	Deesan Agro Tech Ltd.
N K Industries Ltd.	Nav Intel Floods Pvt Ltd.	Sharda Solvent Ltd.	Divya Jyoti Ltd.
Onovcon Industries	Ambika Solvex Pvt Ltd.	Sanwaria Agro Oils Ltd.	Abis Export
Khandesh Extraction Ltd.	Nav Maharashtra Oil	Sai Simran Foods Ltd.	Bunge India Pvt Ltd.
Amrit Banaspati Co. Ltd.	ALH Babangida, Nigeria	Sritech Engineers	Sneha Foods & Feeds Ltd.
Seeta Shri Food Production	Shiva Parvati Poultry	Shiv Shakti Extraction	Rohit Extraction





PRAGYA PRECISION EQUIPMENT PVT. LTD.

LICENCE MANUFACTURER OF PRAGYA GROUP PRODUCT WITHIN THEIR DESIGN, TECHNICAL AND MARKETING SUPPORT

Dedicated to Oil & Oil Seeds Industries for over 30 years Preparatory Machine

Flakers-

50 to 400 TPD with upgraded technology

Crackers-

200 to 500 TPD with upgraded technology

Expanders / Extruders-

Latest designed for 200 to 1250 TPD with highly sensitive hydraulic autorun and adiabatic accumulator.

Drier Cooler / Meal Cooler-

Hot & cold air drier cooler for soya & other seeds as well as DOC from 200 TPD to 1200 TPD.

Seed Cleaner-

200 to 500 TPD

Hydraulic Power Packs-

For all flakers, expanders, presses etc. along with hydraulic adiabatic accumulator machine's safety.

Finned Tube Heat Exchanger Modular Design-

Specialized for any capacity from 20 M² area to 200 M² area for required pressure. Easy to replace and clean the module.

Condensers & Heat Exchangers-

Floating head type shell & tube type two pass / four pass in M.S. / S.S. & S.S. / S.S. Surface area 10 M² to 600 M². Evaporators & economizers from 20 M² to 350 M² surface area.

Hydraulic Bag Stacker / Loader / Belt Conveyors-

This is our latest development. The capacity is up to 100 TPH, very useful for stacking DOC bags up to 8 mtrs. height & also useful for loading trucks. The belt stackers work by either geared motor or hydraulic pump. This is portable too.

PRAGYA PRECISION EQUIPMENT PVT. LTD.

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