United
engineering (eastern) corporation

EX-III SCREW PRESS

The EX SERIES Screw Presses are designed for Improved Extraction Efficiencies. The machine is designed for ease of operation and low maintenance.

The EX III is operating in more than 20 countries world wide on most oil bearing seeds. An excellent press for cold pressing applications.

All our Presses are CE Approved (Certified for European Union)

Capacities Pre Press	**75-100 Tons Per Day ***
Capacities Full Press	**40-45 Tons Per Day***
Capacities 2nd Press	**25-30 Tons Per Day***
Motor Rating	**75-100 kW * (100-125 HP)**
Cage Diameter	**225 x 228 mm**
Length	**4636 mm**
Width	**1270 mm**
Inlet Feed Height	**2670 mm**
Weight	**9500 kgs**

* Subject to Application

SALIENT FEATURES OF THE EX SERIES

MAIN PRESS FRAME:

- Heavy Welded Steel Fabricated machine.
- Covers made from Carbon Steel to protect from splash and vapors.
- Lower Cover allows for observation of press in operation.
- Aspiration fan and damper valve for blower and cyclone for cake chamber.
- Oil and Foots Conveyor with separate drive in the Oil Tray: 0.75kw/ 1 HP

GEAR BOX and THRUST BEARING ASSEMBLY

- Heavy Duty TRIPLE HELICAL Reduction Gearbox from leading Gear Box manufacturer
- The Screw Press can be operated at multi speeds.
- Thrust Bearing Assembly is placed between Feed and Gear Box, away from Discharge Side.
- No ingress of cake or heat in bearings.
- Heavy-duty roller and ball bearings ensure smooth and noiseless operation.

MAIN SHAFT

- Special Alloy Steel Main Worm Shaft that can withstand high Torque.
- The shaft can be easily removed without disturbing the main gearbox.
- Shaft is water cooled

WORM ASSEMBLY:

- The worm assembly is specially designed after years of research.
- The worms and collars are Special Hard Faced to ensure longer life.
- The cage opens on a vertical axis, which facilitates easy cleaning of the press.
- There are Two Cages. Feed and Discharge.
- The Cage is Cast Steel to ensure maximum strength and minimum wear.
- The Cage Bars are made of special alloy steel hardened

FEEDER SYSTEM

There is a Horizontal Feeder as well as a Vertical Feeder.

- Inverter Drive unit for the Horizontal Feeder.
- Vertical Fixed Speed Feeder Unit.
- Horizontal Feeder : 1.5 kW/ 2 HP
- Vertical Feeder : 3.75 kW/ 5 HP

BARRING MOTOR:

- To empty the main cage of the machine when the main power fails. Reduces many hours of down time for emptying of main chamber
- Unit is supplied complete with motor, drive and Clutch.

POWER AND AUTOMATION CONTROL PANEL:

- Design and Manufactured to IP 54 standards.
- Power Control and Automatic Control Features are in built.
- Inverter Drive for Horizontal Feeder.
- All motors have an overload trip feature to ensure full protection.
- PLC Control Logic, based on Industry Standard Equipment.
- There is and automatic control and monitoring of both Main Drive with the variable speed feeder to ensure optimum Press operation without the risk of Press getting overload.
- Facilities for data logging of Press operation, (additional equipment required).

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