



## EX-VII SCREW PRESS

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

For medium to larger Process Plants, the EX VII is an efficient and reliable press. The press has high throughput both as a Pre Press or a Multi Stage Press. The Press is operating in leading Oil Crushing Plants in the world.

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

Capacities Pre Press	200-300 Tons Per Day *
Capacities Full Press	75-100 Tons Per Day*
Capacities 2 <sup>nd</sup> Press	75 Tons Per Day*
Motor Rating	225-260 kW ( 300-350HP)*
Cage Diameter	305 x 280 mm*
Length	4920 mm
Width	1715 mm
Inlet Feed Height	2740 mm
Weight	14000 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 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 : 2.2 kW/ 3 HP
- ✦ Vertical Feeder : 5.5 kW/ 7.5 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 IP54 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 an 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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