



## EX-VIII SCREW PRESS

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

The EX VIII has been designed for Large Oil Crushing Facilities where one press can do what is done by a battery of smaller presses, saving space and operating costs.

The EX VIII is a very successful Pre Press and Full Press operating on rapeseed, copra, sunflower and other high oil bearing seeds. The EX VIII has very low operating costs.

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

<b>Capacities Pre Press</b>	<b>300-400 Tons Per Day *</b>
<b>Capacities Full Press</b>	<b>150 Tons Per Day*</b>
<b>Capacities 2<sup>nd</sup> Press</b>	<b>100 Tons Per Day*</b>
<b>Motor Rating</b>	<b>250-300 kW ( 335-400HP)*</b>
<b>Cage Diameter</b>	<b>350 x 320 mm</b>
<b>Length</b>	<b>4932 mm</b>
<b>Width</b>	<b>1626 mm</b>
<b>Inlet Feed Height</b>	<b>2585 mm</b>
<b>Weight</b>	<b>15200 kgs</b>

## 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 : 7.5 kW / 10 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 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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