



# EX-V 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 V Screw Presses are designed for medium scale plants. These presses can be used as a Full Press or Multi Stage Press on most oil bearing seeds. The EX V is Compact in Design and Rugged in construction.

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

<b>Capacities Pre Press</b>	<b>100-150 Tons Per Day *</b>
<b>Capacities Full Press</b>	<b>50-75 Tons Per Day</b>
<b>Capacities 2<sup>nd</sup> Press</b>	<b>50-70 Tons Per Day</b>
<b>Motor Rating</b>	<b>186-225 kW ( 250-300HP)*</b>
<b>Cage Diameter</b>	<b>280 x 255 mm</b>
<b>Length</b>	<b>4878 mm</b>
<b>Width</b>	<b>1490 mm</b>
<b>Inlet Feed Height</b>	<b>2690 mm</b>
<b>Weight</b>	<b>12200 kgs</b>

\* 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 : 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, 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).

## United Engineering (Eastern) Corporation



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