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)

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

* 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 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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