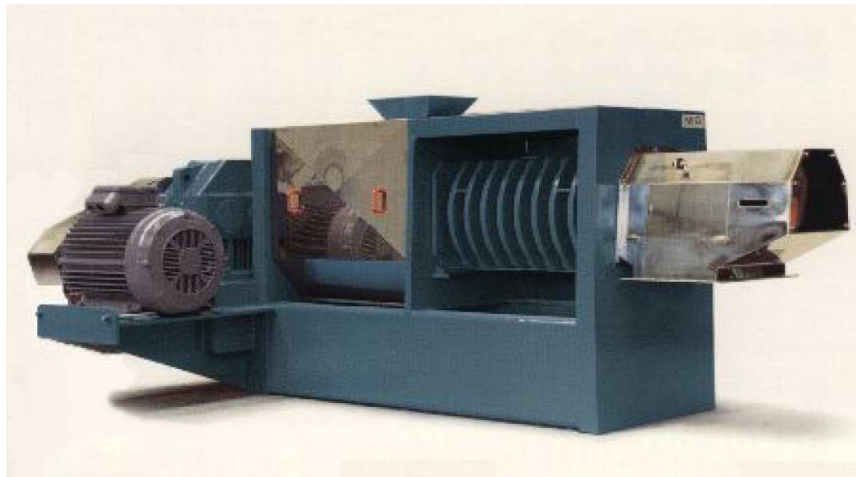




EXPELLER SCREW PRESS, TYPE PC 300



PRODUCT INFO

Press of new construction for pressing up to 3000 Kg/h about of feed mixed material with a maximum moisture of 8%-10%. It has the non-stop factor of production 24 h, high efficiency squashing and minimum fat residue in the outgoing solid material. The machine is manufactured entirely in carbon steel and heat-treated in its wearing parts. It is furnished along with every accessory like: electric panel for the automatic control of the pressing, oil-dynamic hand pump for a perfect regulation of the pressing and special key for a quick opening of the machine for the periodical maintenance. It's operated by an electric motor kW 112 (150HP). This power is transmitted by means of belts-pulleys, directly to a reducer of national trade-mark (a leader firm in this field). The reducer, in order to assure a long operating period and high quality materials by making use of heat-treated and ground helical-tooth gears. The motion is afterwards transmitted to the pressure shaft which together with the cage and the cone, are the main elements for the product transformation.

Automatism control panel

Electric panel to wall dimensions 70x50x40 cm for the command of the advancement and the demotion of the pressure cone for better regulate the seed's pressing. It is constituted by a manostat for the set of pressure requested by the user and by an ammeter for the direct reading of the principal motor's strain. Through a logic of our planning, it operates the motor of the oil-dynamic central through which is gotten the control in automatic of the pressing value, getting so a constant result in the income of oil. Attention: It doesn't command the principal motor of the press or that of the heater.





EXPPELLER SCREW PRESS, TYPE PC 300 continued

PRODUCT INFO CONTINUED

Oildynamic central

It is essential for the operating of the oil-dynamic cylinder climbed on the pressure cone and it is composed by an electric motor of 1,5 kW that operates an inside pump 0 - 160 Bar contained in a tank with ability of 30 lts. of oil. On the superior part it is situated the group of distribution composed from: check valve, solenoid valve 10 commanded by a magnet fed with the auxiliary tension coming from the electric panel. Always on the superior external part, it is installed a valve of total pressure unloading that operated it assures the total absence of pressure in the circuit, allowing so to effect quietly any intervention of disassembly or cleaning of the parts. The pressure regulation in the hydraulic circuit is going to be made by our technicians during the testing phase by using the regulation valve positioned on the pump's delivery (generally 90 Bar). The oil-dynamic central is equipped with accessories like filter, level, cork of oil load and unload and it doesn't need any particular maintenance.

General requirements

The indicated capacities for the screw press are subject to the following conditions:

- 1) Temp. of the material to be pressed: 90-110° C
- 2) Moisture content: 4-6%
- 3) Fat content (app.) corresponding to 12-15%, of the raw material: 35-40%
- 4) Ffa contents: up to 10%
- 5) The bone particles in the raw materials must be broken down to be fine-grained (20 mm).
 - 5.1) The percentage of bone in the raw material must not exceed 20-30%
- 6) The raw material to be treated must be fresh - not older than 48 hours.
- 7) Requirements for the materials to be pressed:

The raw materials must be prepared with sufficient care, i.e. the mechanical and thermal treatment as well as the drying must be adapted to the composition of the raw materials.

The structure is of decisive importance to the function of the pressing operation and thus to the fat contents of the meal, i.e. the raw materials (semi-products) must be easy to handle and press able.

Capacities:

If the above requirements are met, the yield of press cakes from the screw press will, subject to composition of raw materials, be:

Approximately 3.000 kg per hour

On an average the press cake will have fat contents of 12-16%.

