

Science Behind Technology

The Mini 500 Press

Specification Sheet



Nominal Throughput :	500 kg/Hr - Pre-Press	Size:	
	250-300 kg/Hr - Full Press	Length :	2300 mm
Installed Power :	22 kW	Width :	700 mm
		Height :	850 mm
Typical Oil Yield:		Nett Weight :	900 Kg
Cold Press,	60 - 70% - Pre-Press		
Prepared Seed,	75 - 90% - Full Press		

Duty:

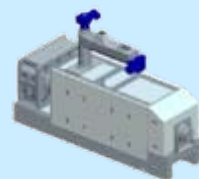
The Mini 500 Press is capable of Cold Pressing most Oil Seeds without Pre-Treatment*. Its size and tight tolerances means that it is very efficient at rupturing the structures of oil-bearing materials and extracting the oil. The Mini 500 was designed primarily as a Pre-Press to work in conjunction with several Mini 200 second Presses. However its robust design means that it is also perfectly suitable for a Full Pressing Duty. As with all our Mini Presses although designed to work on cold feed materials it is perfectly suited to the processing of cooked and prepared feed materials, where the pre-treatment will enable greater oil yields than is possible with the Press alone.

The Throughput of the Mini 500 Screw Press is sufficient to form the basis of commercial viable plants that will be used in specialist applications, where small scale extraction of high value products is required. The cake from the Press is perfectly suited to either further mechanical extraction or Solvent Extraction. Typically Milling Defects of Press Cake below 1% are achievable.

* Fibrous feeds or feeds with large particle sizes will require pre-breaking before feeding to a Mini Press.



Mini Press operating on Cold Whole Rape Seed

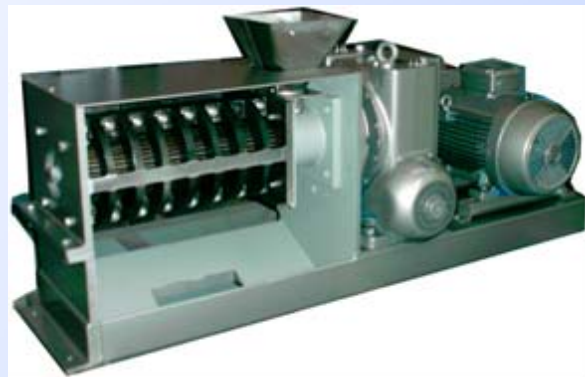


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Construction Basis:

The Mini 500 has a fully welded Frame, that provides maximum strength and allows for simple installation of the Press. The motor is mounted on the Main Frame, either on the base plate behind the Gearbox or on the top of the Gearbox. The feed mechanism and available space will generally determine which is the most suitable arrangement.



The Gearbox is of the Worm Box type, this is a high efficiency unit and it is fitted, as standard, with large bearings that will withstand the loads generated by the pressing operation. The Gearbox flanges directly to the Frame and the main Press Shaft fits directly into the hollow-driving sleeve of the Gearbox. This arrangement eliminates the need for specialist alignment, making the Press very simple to maintain.

All aspect of the Press and its ancillaries are designed in accordance with all European and British Safety regulations.

The Cage Assembly

The Cage is split on the vertical centre line with the two halves bolted together. This design allows for quick and easy access to the Press internals for cleaning or inspection, without any specialist lifting equipment. The Cage is lined with standard Lining Bars, clamped in individual fields by Knife and Shoe Frame Bars. These are very easy to maintain and provide the best operating characteristics for the Press.

The Worm Assembly:

The Worm Assembly generally features at least two compression zones to maximise the efficiency of oil extraction, without generating the high pressures that absorb power and cause excessive wear of the Parts. The Worm Assembly is made up of components built up on a keyed Shaft. The Parts slide on to the Shaft from the Discharge End so that those parts that experience the greatest wear and those that are the most likely to need changing for different seed types are the first to be removed from the Shaft. The compression in each zone can be adjusted, to suit the feed material and the required duty, with simply interchangeable Pressure Pieces that are supplied as standard with each Press

