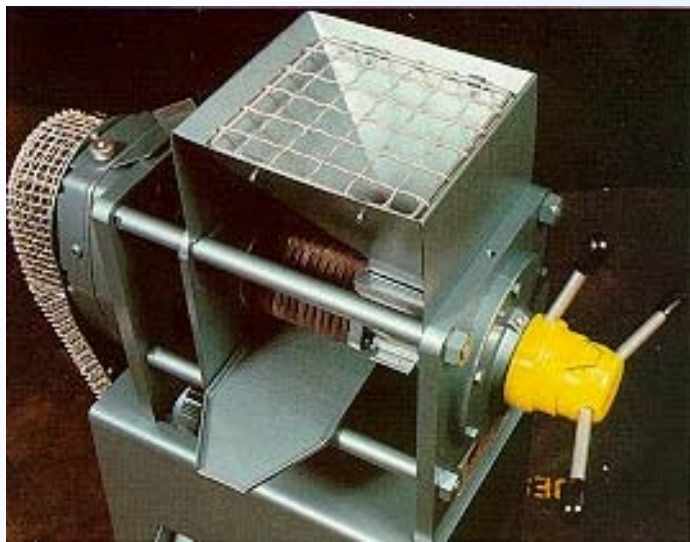


## The Mini 40 Press

### Specification Sheet



Nominal Throughput : 40 kg/Hr

Installed Power : 4.0 kW

Typical Oil Yield:

Cold Press, 75 - 85%

Prepared Seed, 80 - 90%

Size: (Including Feed Hopper)

Drive Type: *Electric* *Diesel*

Length : 700 mm 860 mm

Width : 550 mm 960 mm

Height : 1450 mm 700mm

Nett Weight : 200 Kg 500 Kg

### **Duty:**

The Mini 40 Press is the smallest Screw Press in our range. It is designed for Cold Pressing most oil seeds without any Pre-Treatment\*. Its small size and tight tolerances means that it is very efficient at rupturing the structures of oil-bearing materials and extracting the oil. The Mini 40 may also be used to process cooked and prepared feed materials, where the pre-treatment will enable greater oil yields to be obtained than is possible with the Press alone.

Typically the Mini 40 Screw Press has been used in small scale applications such as village industries, or in small commercial Pilot Plants. Many have been placed by aid agencies in developing countries, to facilitate local food production. While others have formed the centres of research plants in many academic institutions.

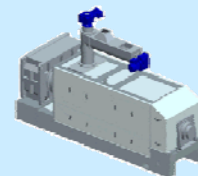
The simple operation and self contained nature of the equipment means that it can be easily installed and operated without the need for special skills or infrastructure. The Press is normally run directly from a mains electrical supply, however a diesel driven version is also available that needs no external services.

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

### **Delivery:**

Typically : 12 Weeks from Order

Diesel Drive : contact DSR



## The Mini 40 Press

### Specification Sheet

#### Construction Basis:

The Mini 40 is built around a simple, fabricated steel frame. The Electric Drive version it is normally supplied complete with a sub frame which includes the mounting for the electric motor. Installation is very simple with only electrical connections required. Alternatively the Diesel Drive version is supplied with the engine mounted beside the Press and coupled to it by a belt drive arrangement. This unit is completely self contained and needs no external connections to be made.



The Gearbox is a shaft mounted, helical gear type unit. This type of Gearbox has a high efficiency and 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 aspects of the Press and its ancillaries are designed in accordance with all European and British Safety regulations.



#### The Barrel Assembly

The Press Barrel is made up of "Barrel Rings" The Barrel Rings are separated by circular "Spacers", that slide onto the "Tie Bars" to form the drained barrel of the Press. This arrangement offers greater flexibility to adjust the drainage gaps of the Press and forms a very simple assembly that can be easily maintained.

#### The Worm Assembly:

The Worm Assembly generally features a single compression zone and is equipped with a variable choke mechanism that allows the operating characteristics of the Press to be varied. This allows the efficiency of the oil extraction to be maximised by altering the Compression in the Press to suit different seed types. The Choke mechanism also allows the thickness of the cake discharge to be altered to match the process requirements and makes starting and stopping of the Press easier. The Worm Assembly itself is made up of a single continuously flighted worm integral to the shaft. This is a simple and reliable construction, that requires no maintenance.