

Motorized Laboratory Pellet Press – Semi-Automatic Press

PRODUCT DESCRIPTION

- The Motorized Laboratory Pellet Press is a high-end semi-automatic laboratory press designed for IR, FTIR and XRF sampling applications, available in 20–50 ton capacity range. It features a compact table-top design with easy-to-operate electrical controls for both pressing and ejection cycles. The pressing cycle can be operated in Automatic as well as Manual mode, while the ejection cycle is provided with a Manual (Inching) mode for controlled operation.
- The press provides steady pressure building and controlled pressure release, helping to achieve better and more consistent pellet quality. The required pressure can be set through a manual pressure switch, while the actual pressure is indicated through a glycerin-filled pressure gauge. Pressure, hold time and ram retracting time can be set according to the application requirements.
- For safe operation, the press incorporates safety mechanisms against overpressure and excessive ram stroke, along with a transparent polycarbonate safety guard in the operating area. An emergency stop button can be provided for cutting off the electrical supply when required. The control panel includes an MCB, overload relay and relay contactors for electrical safety. The complete press is enclosed in a powder-coated metallic cover, which can be easily removed for maintenance and servicing.

APPLICATION/USES

- IR / FTIR / XRF sample preparation
- FTIR KBr pellet pressing
- XRF pellet preparation
- Thin film pressing
- Preparation of compressed pellets from powdered materials
- R&D and QC laboratory applications
- Pharmaceutical and material testing applications
- Repetitive pellet pressing with controlled pressure and hold time
- Laboratory applications requiring 15–40 ton pressing capacity



FEATURES

- Compact design with easy-to-operate electrical controls for pressing and ejection cycle
- Pressing cycle has both Auto and Manual modes
- Ejection cycle has Manual (Inching) mode
- Steady pressure building and controlled release for better pellet quality
- Desired pressure adjustable through manual pressure switch and actual pressure indicated by glycerin-filled pressure gauge
- Settable parameters: pressure, hold time and ram retracting time
- Safety mechanisms to avoid overpressure and excessive ram stroke
- Transparent polycarbonate safety guard in the operating area
- Emergency Stop Button for electrical supply cut-off, if required
- Reputed MCB, overload relay and relay contactors included in control panel for electrical safety
- Powder-coated metallic cover, easily removable for maintenance

Technical Data	Value
Max. Working Pressure	135 Kg/sq.cm.
Max. Daylight	120 mm
Electric Supply	230 V AC Mains

Laboratory Semi Automatic Hydraulic Pellet Press			
Model	LW-SAPP15T	LW-SAPP HP 25T	LW-SAPP HP 40T
Pressure Range	0-15T	0-25T	0-40T
Piston Diameter	50 mm	80mm	100mm
Maximum Piston Stroke	20mm	25 mm	30 mm
Table Diameter	110 mm	110 mm	130 mm
Workspace	90×90×150mm	120×00×150mm	120×00×200mm
Pressure Stability	≤1MPa/5min	≤1MPa/5min	≤1MPa/5min
Weight	90kg	100kg	120kg
Exterior Size	350×350×360mm	400×400×400mm	400×470×560mm