Laboratory Pellet Press For Solid Sampling

Mini-Arbor Desk Top KBr Pellet Press

Product description

is the most economical, full-scale, KBr pellet press on the market, and it produces pellets that are as transparent as those made with a 12 ton hydraulic press. It uses a torque wrench to permit the user to apply the same amount of pressure from pellet to pellet thereby facilitating reproducibility of results. The square frame of the Port-A-Press™ can either be inserted in a bench mounted vise or in the channel shaped holder provided with the press (shown in photo) which can be mounted to a work bench.

The press can also be operated by laying the frame on the edge of a table and holding the frame with one hand while the torque wrench is tightened with the other hand. Pressure is applied to the die set as the threaded lead screw and toggle pad assembly is screwed through the threaded frame using the torque wrench.

The torque wrench easily generates 20 foot pounds of torque without the use of excessive strength, which is sufficient to produce 16,000 lbs/in2 of pressure on the die set. This is the equivalent of 8 tons of pressure and forms a very clear pellet. The anvils of the 7mm die sets are hardened with optically polished faces and use the same aerospace grade of nickel based alloy as the Quick Press with which they are interchangeable. The dies are loaded in the same manner as the Quick Press die set.

- **2 mm TO 6 mm** pallet used for **IR/FTIR/XRF** Solid Sampling
- **3 ton** laboratory Hydraulic Pellet Press is a compact, elegant and robust machine, typically used by R&D & QC labs for various pelletizing applications for IR.
- The high pressure pumping unit supplies hydraulic fluid to the up-stoking ram of the cylinder.

Laboratory Manual Hydraulic Pellet Press

Product description

A Complete Laboratory hydraulic press producing a force about 15 tones use to make high quality

- **13mm** pallet used for **IR/FTIR/XRF** Solid Sampling
- **15 ton** laboratory Hydraulic Pellet Press is a compact, elegant and robust machine, typically used by R&D & QC labs for various pelletizing applications for IR/XRF etc.
- The high pressure pumping unit supplies hydraulic fluid to the up-stoking ram of the cylinder.
- This causes the ram to rise steadily and positively in the upward direction. As a result pressure is applied on

The Manual Hydraulic Press is available up to 25 MPa load and used for a wide range of laboratory press applications. The press has a compact, small footprint design making it ideal for bench-top and glove box laboratory applications.

With a rigid steel construction, and protective safety shield as standard, this laboratory hydraulic press is particularly well-suited for FTIR KBr pellet press, XRF pellet press and thin film press applications.

The easy-to-read scale gauge is calibrated in MPa. Adjustable pressure control value allows reproducible load for repetitive applications. A range of conversion gauges are available for low pressure hydraulic press applications.

A laboratory press is used to create compressed pellets out of powdered material for use in applications as diverse as pharmaceutical development, spectroscopy, and bomb calorimetry. Powders are placed into a die (or mold) of the laboratory press and are pressed into shape by hydraulic action. A laboratory press can have a wide range of pressures, from 15 to 40 metric tons. One important consideration is the shape of the desired pellets, which can vary between different products. Some laboratory presses can accommodate a wide range of different-sized or customized dies. Though most laboratory presses are hydraulic, other laboratory presses can be of a screw press configuration.

Technical Data :

Model	HP 15T	HP 25T	HP 40T
Pressure Range	0-15T	0-25T	0-40T
Piston Diameter	50 mm	85mm	95mm
Maximum Piston Stroke	20mm	25 mm	30 mm
Table Diameter	95 mm	95 mm	120 mm
Workspace	90×90×150mm	120×00×150mm	150×150×230mm
Pressure Stability	≤1MPa/5min	≤1MPa/5min	≤1MPa/5min
Weight	40kg	60kg	86kg
Exterior Size	280×210×400mm	300×270×425mm	380×210×500mm