

Manufacturing Laboratory & Scientific Instruments

FTIR-IR XRF ACCESSORIES



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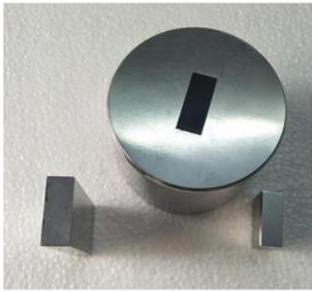
KBR DIE SET Cylindrical & Rectangular

Product description

The AONE Evaluable Pallet Press is the preferred accessory for making pellets for FTIR analysis. Preparation of KBR pellets with a 13 mm die and a hydraulic press is the most popular method used for generation of samples for transmission measurements.



It is also required by a number of standardized procedures, including some USLP and ASTM methods. The advantages of this approach include the generation of high quality pellets, reproducibility, and the ability to deal with relatively difficult samples, thanks to a wide range of pressures available.



Evaluable Pellet Press comes complete with anvils and Vacuum Connector.

Circular , Square & Rectangular Pallet Die Available as Per Customer Requirement

Die Size	5mm	10mm	13mm	20mm	25mm	32mm	40mm	50mm	60mm
Part No. Total Height1	2.75" 70mm	2.75" 70mm	2.83" 72mm	4.265" 108.3mm	4.75" 120.7mm	2.75" 70mm	2.85" 72mm	4.625" 108.3mm	4.75" 120.7mm
Plunger Height	1.37" 34.8mm	1.37" 34.8mm	1.37" 34.8mm	2.24" 57mm	2.24" 57mm	1.37" 34.8mm	1.33" 33.8mm	2.24" 57mm	2.24" 57mm
Base Diameter	1.97" 50m m	1.97" 50mm	2.0" 50.8m m	3.54" 90mm	3.54" 90mm	1.97" 50mm	1.97" 50mm	3.54" 90mm	3.54" 90mm
Single Anvil Height	0.25" 6.35mm	0.25" 6.35mm	0.25" 6.35m m	0.375" 9.5mm	0.375" 9.5mm	0.25" 6.35mm	0.27" 6.85mm	0.375" 9.5mm	0.375" 9.5mm

KBR Hydraulic Pallet Press (Manually)

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.

- 25 MPa configurations
- Polycarbonate safety guards
- Adjustable upper bolster
- Adjustable pressure control valve
- Vacuum ports
- Pressure release valve
- Low pressure conversion gauges



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

KBR Hydraulic Pallet Press (Automatic)

Product description

Motorized Laboratory Pellet Presses Used in IR / FTIR / XRF Sampling

15 Tons Semi-Automatic Press (Table Top) - Higher End Model

Features :

- Compact design and easy to operate electrical controls with Pressing and Ejection cycle
- Pressing Cycle has both Auto and Manual modes whereas Ejection cycle has only Manual (Inching) mode
- Steady pressure building and controlled release ensures better pellet quality.
- Desired Pressure is set on manual pressure switch & actual pressure indicated by made to order Glycerin filled pressure gauge (indicator)
- Settable parameters: - pressure, hold time & ram retracting time.
- Safety mechanisms to avoid over pressure and excessive ram stroke
- Transparent Polycarbonate safety guard has been provided in the area of operation.
- Emergency Stop Button to cut-off electrical supply (if required)
- Reputed MCB, overload relay & relay contactors are included in the Control-Panel for electrical safety
- Press is enclosed in a powder coated metallic cover, which is easily removable for maintenance purpose.



Technical Data:

- Max. Working Pressure: 135 Kg/sq.cm.
- Max. Daylight : 120 mm
- Electric Supply : 230 V AC Mains

Model	HP 15T	HP 25T
Pressure Range	0-15T	0-25T
Piston Diameter	50 mm	80mm
Maximum Piston Stroke	20mm	25 mm
Table Diameter	110 mm	110 mm
Workspace	90×90×150mm	120×00×150mm
Pressure Stability	≤1MPa/5min	≤1MPa/5min
Weight	90kg	120kg
Exterior Size	400×470×560mm	400×470×560mm

Pallet Holder

Product description



Pellet Holders to suit the above sizes are manufactured by us, the standard being 13 mm Aluminum Anodized Pellet Holder.

KBr Pellet Holder Available Size- 8 mm & 13 mm

Demountable liquid-cell kit

Product description

Useful for studying mulls, films, solutions, and viscous liquids. Demountable windows make re-polishing and replacement easy. Pathlengths can be changed simply by using different spacers. Kit includes one cell holder, one PTFE O-ring and two gaskets, one aluminum plate, two PTFE stoppers, one space compensator for use with Irtran-2, and one each of six different pathlength spacers (0.015, 0.025, 0.05, 0.1, 0.2, 0.5 mm). Order 32 mm windows separately. Liquid cells require a drilled front window and an undrilled back window. Order replacement parts separately.

Available Size- Mull Cell Holder 25 mm & Liquid Cell Holder 38x18mm



Mull Cell Holder



Universal Liquid Cell Holder

Mortal Pestle (Agate & Stainless steel)

Product description

Octagonal mortar and pestle sets feature highly polished grinding surface. Made of naturally hard agate stone For use in laboratories demanding contamination-free results.

Agate pestle and mortar set, recommended for use with very hard samples. Agate is much harder than porcelain, thus reducing the level of impurities introduced into the sample during grinding.

Available Size- 2" , 4" , 6" ,8" x10"



Stainless Steel 304 /316



Agate Mortal Pastel

Sodium Chloride (NaCl) Windows

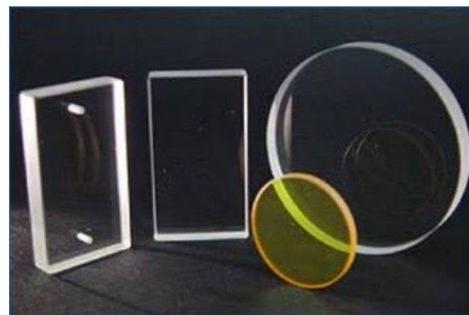


Product description

Undrilled /Drilled back window Pair Per Packet

- Excellent Transmission from 250nm – 16 μ m
- Low Cost
- Ideal for FTIR Spectroscopy
- Potassium Bromide (KBr) Windows Also Available

Available Size- 25 mm x4 mm & 38x18mm x4 mm



FTIR Dry Box

Product description

Dry Box electro-mechanical device designed for storage of accessories affected by moisture.

Features:

- Designed with excellence
- Smooth functioning
- Sturdy construction
- Specifications:
- Usable Volume: 300 x 300 x 300 mm.
- Temperature: Ambient to 45°C- 200°C
- Power: 230 V, 50 Hz, 100 W

models are available :-

- (1) Dry Box with Blind Controller (Thermostat Based)
- (2) Dry Box with Blind Controller & Digital Temperature Indicator



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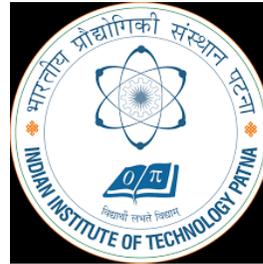
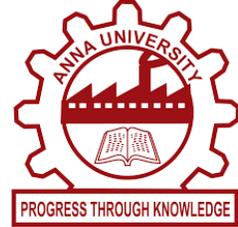
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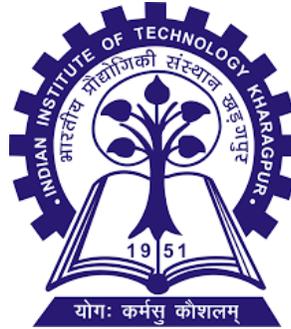
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Our Valuable Customer





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