



Athena
Technology

(An ISO 9001:2008)

Hydraulic Press for IR-FTIR



MANUAL 15 Ton



Automatic Press



Automatic 15Ton

- A complete Laboratory hydraulic press producing a force about 15 tones use to make high quality 13 mm 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-FTIR/XRF etc
- The high pressure pumping unit supplies hydraulic fluid to the up stroking ram of the cylinder. This causes the ram to rise steadily and positively in the upward direction. As a result, pressure is applied
- 15 Tons Manual Hydraulic Pellet Press (Table Top) * Press Construction : Side Plate Construction
- Max. Capacity : 15 Tons (Tolerance +/- 1 Ton or 12-15 Kg/sq.cm.) * Max. Ram Stroke : 15 mm
- Daylight : 90 mm * Cylinder Type : Single acting, upstroking.
- Safety Feature : Pressure Relief Valve to safeguard against applying over-pressure.

KBr Die Set



We regularly manufacture dies made from Hardened Alloy Steel for all Powder Compaction Applications. These Dies are used to form circular pellets for IR/ FTIR / XRF Solid Sampling.

Dies made from Hardened Alloy Steel achieve a high hardness & hence take high pressure. Also, this material is corrosion resistant. Each die consists of two piece outer die body, punches (anvils), pusher rod & pellet removal ring. carbide have to be handled with extreme care.

Die is fitted with a vacuum nozzle for evacuation (if requires). Both punches (anvils) have one face mirror finished, which ensures excellent surface finish of pellets. Die can be easily dismantled for cleaning purposes. The entire set is enclosed in a velvetted teakwood box for safety & durability. Dies are available

in the sizes 6mm, 8mm, 10 mm, 13 mm, 15 mm, 20 mm, 25 mm, 40mm, 60mm. The maximum load which each die can bear varies with reference to the internal diameter of each die.

Pallet Holder



The pallet holder is use to hold pallet (13 mm) of KBR, suitable to any IR/FTIR
Agate, Motor Pestle use to proper sample

Liquid Sampling Nacl / Kbr Windows



Nacl/ KBR windows is available in circular & Rectangular shape. Standard Sizes Circular: dia 25mm x 4 mm thickness Rectangular: 38mm x 19mm x 4mm Other windows like Agcl/CLF & other dimensions also available.

Universal Liquid Cell Holder (Demountable / Fixed Thickness)



The cell holder is used to mount circular as well as rectangular windows & it can be used as Demountable Cell & Fixed Thickness Cell using different spacers supplied along with Teflon ashers of different sizes. Mull Cell holder is used to mount circular window & for mull samples. Cell holder are supplied along with assorted spaces of size 0.1mm, 0.2mm, 0.5mm & 1mm.

Dry Box



The ideal method of storage of FTIR/XRF Accessories which are affected by moisture since highly Hygroscopic in nature, which are to be stored in dry box.

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Office 802, Hercules, Lodha Paradise, Majiwada, near Majiwada Flyover – Thane (W) Mumbai 400 601 INDIA

Web : www.athenatechnology.co.in, www.athenatechs.in & www.nitrogenevaporator.in

Contact : +91 9821488400, 097690 47445, 08879902481, 0 9619067770

Email : milan@athenatechnology.co.in , sachin@athenatechnology.co.in technology.athena@gmail.com