

## Bolt Press & Hydraulic Die – *Low-Cost Pellet Preparation*



Bolt Press

Hydraulic Die

The PIKE Technologies Bolt Press and Hydraulic Die are low-cost tools for making KBr pellets for transmission FTIR analysis.

The press and die consist of a stainless steel barrel with two hardened and polished 13-mm rams. The barrels are equipped with a fitting which allows evacuation of air while the pellet is formed. For the Bolt Press, the pressure is applied to the sample by tightening the bolts against each other with standard 15/16" wrenches – included. For the Hydraulic Die the pressure is applied to the sample by placing it in a hydraulic press – up to 10,000 psi. Once a clear pellet is formed, the rams are removed and the sample is analyzed while still in the barrel (barrel is placed directly in the beam using the Press Holder with a standard 2" x 3" slide mount). Both accessories form a 13-mm pellet.

The PIKE Technologies Bolt Press and Hydraulic Die both include a holder.

### ORDERING INFORMATION

#### PELLET PRESS

PART NUMBER DESCRIPTION

161-2500 Bolt Press for 13-mm pellets

161-3500 Hydraulic Die for 13-mm pellets

Notes: The Bolt Press includes evacuable barrel, 2 anvil bolts, 2 15/16" wrenches, and Bolt Press Holder. The Hydraulic Die includes evacuable barrel, 2 rams and Hydraulic Die Holder. The maximum force limit 5 ton.

#### OPTIONS AND REPLACEMENT PARTS

PART NUMBER DESCRIPTION

160-8010 KBr Powder, 100 g

161-5050 Agate Mortar and Pestle, 50 mm

161-2511 Wrench Set for Bolt Press (2 ea.)

161-2520 Holder for Bolt Press

161-2513 Barrel for Bolt Press

161-2525 Anvils for Bolt Press

161-3502 Anvils for Hydraulic Die

Note: For more pellet press options, please contact PIKE Technologies.

## Hand Press – *For Making Smaller Pellets*



The PIKE Technologies Hand Press is an ideal solution for laboratories that require only occasional preparation of KBr pellets and cannot justify the expense of a hydraulic press.

The Hand Press is an efficient, reliable and inexpensive tool which simplifies making small pellets. It consists of a long stainless steel barrel and movable stage controlled by a lever capable of applying high pressure to the KBr/powder mixture. The Hand Press comes complete with three standard die sets (7, 3 and 1 mm). The pellet preparation involves loading of the powdered sample into the die chamber, placement of the upper anvil in the press and application of hand pressure to the lever (this is sufficient to provide clear, high-quality KBr disks). The Die Collar with the formed pellet is removed from the press and in most cases it can be placed directly in the beam of the spectrometer for analysis. The Hand Press is equipped with a platen position dial for adjustment of the force applied to the die for reproducible sample preparation.

### ORDERING INFORMATION

PART NUMBER DESCRIPTION

161-1100 Hand Press for 7-mm, 3-mm, and 1-mm pellets  
*Includes 7-mm, 3-mm, and 1-mm die sets, anvils, die collars, anvil ejectors and Dual Pellet Holder*

#### OPTIONS AND REPLACEMENT PARTS

PART NUMBER DESCRIPTION

161-5700 Dual Pellet Holder for 7-mm, 3-mm, and 1-mm pellets

161-1018 Single Pellet Holder for 7-mm pellets

160-8010 KBr Powder, 100 g

161-5050 Agate Mortar and Pestle, 50 mm

161-1027 Hand Press Body

161-1028 Die Set, 1-mm

161-1024 Die Set, 3-mm

161-1010 Die Set, 7-mm

161-1019 Die Sets, 1-, 3- and 7-mm

161-1011 7-mm Collar

Note: For more Hand Press options, please contact PIKE Technologies.