

Evacuatable Pellet Press – For Preparation of High Quality Pellets



FEATURES OF THE EVACUABLE PELLET PRESS

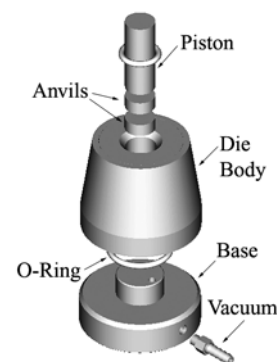
- Ideal for making high-quality KBr pellets
- Apply up to 20,000 lbs. (9,071 kg) of pressure
- Evacuatable to prevent cloudy pellets
- Requires hydraulic press

The PIKE Technologies Evacuatable Pellet 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. The PIKE Evacuatable KBr Die Kit features the following components: a stainless steel base with vacuum outlet, the main die block with a 13 mm cylinder, two anvils and a plunger. All components are made of hardened stainless steel and surfaces that come in contact with the sample are highly polished. Two O-rings are used to seal the base/die assembly and the plunger.

Pellet preparation involves placement of the anvil in the die chamber and covering it up with the pre-measured amount of KBr/sample mix.

The sample is covered with the second anvil and the plunger is inserted into the chamber. The entire assembly is placed in a hydraulic press and compressed (a vacuum line can be connected to the base to remove moisture from the sample). For analysis, the formed pellet is ejected from the die with an extractor and mounted onto a standard 2" x 3" sample holder.

The PIKE Technologies Evacuatable Pellet Press comes complete with anvils and vacuum connector.



Evacuatable pellet press assembly layout

ORDERING INFORMATION

Evacuatable Pellet Press

PART NUMBER	DESCRIPTION
161-1900	Evacuatable Pellet Press for 13 mm pellets <i>Includes: Die Block, Anvils and pellet extracting tool. Requires selection of Buffer Plate (161-1850) when used with Carver Presses</i>

Evacuatable Pellet Press Options and Replacement Parts

PART NUMBER	DESCRIPTION
160-8010	KBr Powder, 100 g
161-5050	Agate Mortar and Pestle, 50 mm
162-5300	PIKE Magnetic Holder – for 13 mm pellets and film samples
162-5410	PIKE Sample Card – for 13 mm pellets (10 each)
161-1850	Evacuatable Pellet Press Buffer Plate
161-1903	Anvils (2 each) for PIKE Evacuatable Pellet Press
161-1906	Piston O-Rings (2 each)
161-1907	Base O-Rings (2 each)

Notes: For other options for the Evacuatable Pellet Press, please contact PIKE Technologies.