

Evacuable Pellet Press – For Preparation of High Quality Pellets



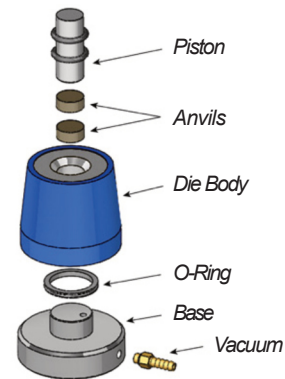
FEAT U RES

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

The PIKE Technologies Evacuable 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 to make samples for transmission measurements. It is also required by a number of standardized procedures, including some USLP and ASTM methods. Advantages of this approach include the generation of high-quality pellets, reproducibility, and the ability to deal with relatively difficult samples.

The PIKE Evacuable Pellet Press Kit features the following components: a stainless steel base with vacuum outlet, the main die block with a 13-mm cylinder, two polished 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 with the pre-measured amount of KBr/sample mix. The second anvil is placed on the sample 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 air 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.



Evacuable pellet press assembly.

ORD ERING I N F O R M A T I O N

PART NUMBER	DESCR I P T I O N
161-1900	Evacuable Pellet Press for 13-mm pellets <i>Includes die block, anvils and pellet extracting tool</i>

OPT I O N S A N D R E P L A C E M E N T P A R T S

PART NUMBER	DESCR I P T I O N
160-8010	KBr Powder, 100 g
161-5050	Agate Mortar and Pestle, 50 mm
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-5410	Sample Card for 13-mm pellets (10 ea.)
161-1908	Pellet Extracting Tool
161-1903	Anvils for PIKE Evacuable Pellet Press (2 ea.)
161-1902	Pellet Die Piston
161-1906	Piston O-Rings (2 ea.)
161-1907	Base O-Rings (2 ea.)
430-1110	Vacuum Pump, 110V
430-1220	Vacuum Pump, 220V
161-1070	ShakIR, Heavy Duty Sample Grinder, 110/220V <i>Includes mount for 1" vials</i>
161-1035	ShakIRStainless Steel Vial with Ball, 1" long x 0.5"+

Notes: ShakIRrequires stainless steel vial and ball P/N 161-1035. For more Evacuable Pellet Press options, please contact PIKE Technologies.