

Sampling Kits



If you are not sure where to start, check out PIKE Technologies' sampling kits. You will immediately find everything you need for basic FTIR experiments, and you will be able to collect your first spectrum in less than 30 minutes from the time the kit arrives. The kits are carefully designed to include all necessary components. They eliminate guesswork and assure that you have everything you need for immediate productivity.

Premium Sampling Kit

AT A GLANCE

- Complete kit for faster transmission FTIR sampling
- Make KBr pellets with Pixie, a compact hydraulic press
- Make mulls for solid samples
- Run liquid samples for qualitative and quantitative analysis

All the tools you need to prepare your liquid and solid samples for transmission measurements.

The Premium kit includes Pixie, a small bench top hydraulic press for the easy preparation of 7-mm KBr pellets, and Nujol™/Fluorolube® for mull making – another popular method for preparation of solid samples. For liquid analysis, a complete demountable cell with a set of spacers ranging from 15 microns to 1 mm is provided. Viscous liquids can be measured directly as a thin film between the KBr windows. Also included are PIKE's most popular sample holders: the universal holder with a 20-mm aperture, KBr pellet holders and PIKE disposable/storage cardboard cards for pellets and polymer films.

PART NUMBER	DESCRIPTION
162-1010	Premium Transmission Sampling Kit
Included Parts and Materials	
160-8010	KBr Powder, 100 g
161-0510	Fluorolube, 1 oz
161-0500	Nujol, 1 oz
042-3035	Spatula, spoon
042-3050	Spatula, flat
161-5030	Mortar and Pestle, 35 mm
181-1400	Pixie Hydraulic Pellet Press
161-1010	7-mm Die Set
161-1011	7-mm Collar
161-1018	KBr Pellet Holder
161-6000	Finger Cots (12 ea.)
162-1100	Demountable Liquid Cell Assembly
160-1010	KBr Window, 32 x 3 mm (6 ea.)
160-1015	KBr Window, 32 x 3 mm, drilled (6 ea.)
162-1290	Teflon Spacers, assortment
161-0521	Syringe, 2 mL (2 ea.)
162-3610	Press-On Demountable Liquid Cell Holder for 32-mm windows
162-5600	Universal Sample Holder*
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-5400	Film Sampling Card, 20-mm clear aperture (10 ea.)*

Note: Cell holders marked "*" fit all standard slide mounts, but due to their height may not allow for a complete sample compartment door closure on some smaller spectrometers. Please consult PIKE Technologies before placing an order.



Standard Sampling Kit

AT A GLANCE

- ▶ Complete kit for transmission FTIR sampling
- ▶ Make KBr pellets and mulls for solid samples
- ▶ Run liquid samples for qualitative and quantitative analysis
- ▶ Convenient padded carrying and storage case

Everything you need to run liquid and solid samples by transmission IR spectroscopy.

This general-purpose kit contains tools and materials for liquid and solid sampling. A complete demountable cell with a set of spacers ranging from 15 microns to 1 mm is provided for measurements of liquid samples. Viscous liquids can be measured directly as a thin film between the KBr windows.

The kit includes a hand-operated press for the preparation of 7-mm KBr pellets and Nujol™/Fluorolube® for mull making – another popular method for preparation of solid samples. Also included are PIKE's most popular sample holders: the universal holder with a 20-mm aperture, KBr pellet holders and PIKE disposable/storage cardboard cards for pellets and polymer films.

PART NUMBER	DESCRIPTION
162-1000	Standard Transmission Sampling Kit
Included Parts and Materials	
160-8010	KBr Powder, 100 g
161-0510	Fluorolube, 1 oz
161-0500	Nujol, 1 oz
042-3035	Spatula, spoon
042-3050	Spatula, flat
161-5035	Mortar and Pestle, 35 mm
161-1027	PIKE Hand Press for KBr pellets
161-1010	7-mm Die Set
161-1018	KBr Pellet Holder
161-6000	Finger Cots (12 ea.)
162-1100	Demountable Liquid Cell Assembly
160-1010	KBr Window, 32 x 3 mm (6 ea.)
160-1015	KBr Window, 32 x 3 mm, drilled (6 ea.)
162-1290	Teflon Spacers, assortment
161-0521	Syringe, 2 mL (2 ea.)
162-3610	Press-On Demountable Liquid Cell Holder for 32-mm windows
162-5600	Universal Sample Holder*
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-5400	Film Sampling Card, 20-mm clear aperture (10 ea.)*

Notes: Cell holders marked "*" fit all standard slide mounts, but due to their height may not allow for a complete sample compartment door closure on some smaller spectrometers. Please consult PIKE Technologies before placing an order.



Comprehensive Sampling Kit

AT A GLANCE

- ▶ Complete sampling kit for analysis of solids, liquids and gas samples by transmission
- ▶ Make KBr pellets and mulls for solid samples
- ▶ Run qualitative and quantitative analysis of liquid samples
- ▶ Identify and quantify gas samples
- ▶ Convenient padded carrying and storage case

Complete gas, liquid and solid sampling tools.

The Comprehensive Transmission Sampling Kit includes a 100-mm pathlength gas cell, in addition to all the sample preparation and mounting tools described in the Standard Sampling Kit.

The gas cell is designed for gas measurements at ambient temperature and normal atmospheric pressure. The body of the gas cell is made of glass, and features stopcocks, all necessary gaskets, two KBr windows and slide-mounted cell holder.

PART NUMBER	DESCRIPTION
162-2000	Comprehensive Transmission Sampling Kit
Included Parts and Materials	
160-8010	KBr Powder, 100 g
161-0510	Fluorolube®, 1 oz
161-0500	Nujol™, 1 oz
042-3035	Spatula, spoon
042-3050	Spatula, flat
161-5035	Mortar and Pestle, 35 mm
161-1027	PIKE Hand Press for KBr pellets
161-1010	7-mm Die Set
161-1018	KBr Pellet Holder
161-6000	Finger Cots (12 ea.)
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-1100	Demountable Liquid Cell Assembly
160-1010	KBr Window, 32 x 3 mm (6 ea.)
160-1015	KBr Window, 32 x 3 mm, drilled (6 ea.)
162-1290	Teflon® Spacers, assortment
161-0521	Syringe, 2 mL (2 ea.)
162-3610	Press-On Demountable Liquid Cell Holder for 32-mm windows
162-5600	Universal Sample Holder*
162-2200	Gas Cell, 100-mm pathlength, 38-mm diameter
160-1320	KBr Window, 38 x 6 mm (2 ea.)
162-5400	Film Sampling Card, 20-mm clear aperture (10 ea.)*

Notes: Cell holders marked "*" fit all standard slide mounts, but due to their height may not allow for a complete sample compartment door closure on some smaller spectrometers. Please consult PIKE Technologies before placing an order.



Educational Sampling Kit

AT A GLANCE

- ▶ Basic sampling kit for transmission FTIR sampling
- ▶ Perform qualitative and quantitative analysis
- ▶ Economical analysis of solids, liquids and gases
- ▶ Convenient padded carrying and storage case

All necessary tools for the analysis of gas, liquid and solid samples.

This kit is designed as an affordable alternative for busy teaching laboratories. It includes 100-mm gas cell with straight, septa tubes, a bolt press for making KBr pellets and a 35-mm mortar and pestle.

A complete demountable cell with a set of spacers ranging from 15 microns to 1 mm is provided for measurements of liquid samples. Viscous liquids can be measured directly as a thin film between the KBr windows.

PART NUMBER	DESCRIPTION
162-3000	Educational Transmission Sampling Kit
Included Parts and Materials	
160-8010	KBr Powder, 100 g
162-1100	Demountable Liquid Cell Assembly
161-0510	Fluorolube®, 1 oz
161-0500	Nujol™, 1 oz
160-1010	KBr Window, 32 x 3 mm (6 ea.)
160-1015	KBr Window, 32 x 3 mm, drilled (6 ea.)
042-3035	Spatula, spoon
042-3050	Spatula, flat
162-1290	Teflon® Spacers, assortment
161-0521	Syringe, 2 mL (2 ea.)
161-5035	Mortar and Pestle, 35 mm
162-3610	Press-On Demountable Liquid Cell Holder for 32-mm windows
161-2500	Bolt Press for KBr pellets
161-2511	Wrench Set for bolt press (2 ea.)
162-2100	Gas Cell, 100-mm pathlength, 25-mm diameter
160-1133	KBr Window, 25 x 4 mm (2 ea.)
161-6000	Finger Cots (12 ea.)
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-5400	Film Sampling Card, 20-mm clear aperture (10 ea.)*

Notes: Cell holders marked "*" fit all standard slide mounts, but due to their height may not allow for a complete sample compartment door closure on some smaller spectrometers. Please consult PIKE Technologies before placing an order.



Bolt Press & Hydraulic Die

AT A GLANCE

- Affordable KBr pellet making tools
- Small and portable
- Easy to use

The 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 $1\frac{5}{16}$ " wrenches are included. For the Hydraulic Die the pressure is applied to the sample by placing it in a hydraulic press—up to 10,000 psi (5 ton).

Once a clear pellet is formed, the rams are removed and the sample is analyzed while still in the barrel. The measurement is made by placing the barrel 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.

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 $1\frac{5}{16}$ " 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	
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 the Bolt Press and Hydraulic Die
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.	



Hydraulic Die.



Bolt Press.

Hand Press

AT A GLANCE

- Includes 7-, 3- and 1-mm die sets.
- Efficient and reliable
- Affordable

The Hand Press is an ideal solution for laboratories that require only occasional preparation of KBr pellets.

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.

PART NUMBER	DESCRIPTION
161-1100	Hand Press for 7-, 3-, and 1-mm pellets Includes 7-, 3-, and 1-mm die sets, anvils, die collars, anvil ejectors and Dual Pellet Holder
Options and Replacement Parts	
161-5700	Dual Pellet Holder for 7-, 3-, and 1-mm pellets
161-1018	Single Pellet Holder for 7-mm pellets
161-1025	Single Pellet Holder for 1- and 3-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
161-1020	7-mm Collar (10-pack)
Note: For more Hand Press options, please contact PIKE Technologies.	



Evacuatable Pellet Press

AT A GLANCE

- Ideal for making high-quality KBr pellets
- Applied force up to 10 tons
- Evacuatable to prevent cloudy pellets
- Requires hydraulic press

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.

KBr pellets are 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.

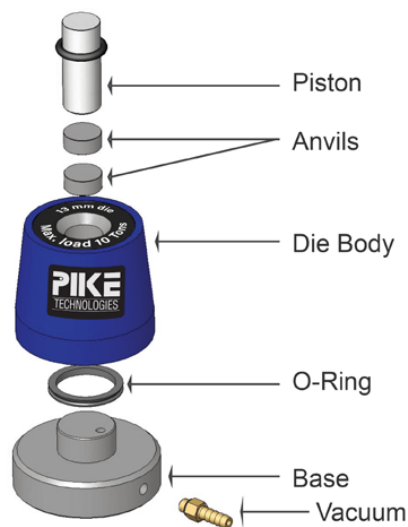
The Evacuatable Pellet Press Kit features the following components: a stainless-steel base with vacuum outlet, the main die block with a 13-mm cylinder, two polished anvils and a plunger. All components are made of hardened stainless steel and surfaces that come in contact with the sample are highly 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

PART NUMBER	DESCRIPTION
161-1900	Evacuatable Pellet Press for 13-mm pellets Includes die block, anvils and pellet extracting tool
Options and Replacement Parts	
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 Evacuatable 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 Includes mount for 1" vials
161-1035	ShakIR Stainless Steel Vial with Ball, 1" long x 0.5"

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

assembly is placed in a hydraulic press and compressed (a vacuum line can be connected to the base to remove air from the sample matrix). For analysis, the formed pellet is ejected from the die with an extractor and mounted onto a standard 2 x 3" sample holder.



Evacuatable pellet press assembly.

Pixie Hydraulic Press

AT A GLANCE

- ▶ 7-mm diameter die
- ▶ Applied force up to 2.5 tons
- ▶ Integrated force gauge
- ▶ Easy-to-use, ergonomic design
- ▶ Small footprint

The Pixie is a portable, manual, hydraulic press for making high-quality KBr pellets.

With the press' ergonomic design, pellet making is easy and effortless. Pixie's small footprint makes it ideal for limited bench-space environments and glove boxes, and for storability. KBr pellets for IR transmission measurements are required by a number of standardized procedures, including some USLP and ASTM methods. Advantages of pellet making are spectral reproducibility and the ability to deal with relatively difficult or limited-mass samples.

The pellet preparation involves loading of the powdered KBr/sample matrix into the die chamber and placing the assembled die onto the platform of the hydraulic press. Force up to 2.5 tons may be applied. The die collar containing the newly formed pellet is placed into the designated holder and is positioned in the spectrometer's 2 x 3" slide mount holder for measurement.

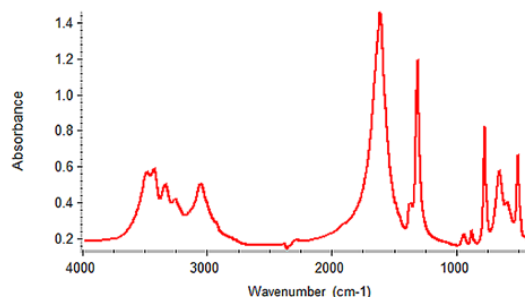


PART NUMBER	DESCRIPTION
181-1410	Pixie Hydraulic Press Package Includes Pixie Hydraulic Pellet Press, 7-mm die set with two additional die collars, pellet holder, 35-mm agate mortar, KBr (50 g) and spoon spatula
162-1010	Premium Transmission Sampling Kit Includes Pixie Hydraulic Pellet Press, sample preparation tools, mull liquids, cells, windows and cell holders required for preparation and analysis of solid and liquid samples
181-1400	Pixie Hydraulic Pellet Press
Options and Replacement Parts	
161-1010	7-mm Die Set
161-1018	Single Pellet Holder for 7-mm pellets
161-1011	7-mm Collar
161-1020	7-mm Collar (10-pack)
160-8010	KBr Powder, 100 g
161-5035	Agate Mortar and Pestle, 35 mm
042-3035	Spatula – spoon
042-3050	Spatula – flat

SPECIFICATIONS

	Metric	English
Ram Force, Max	2.3 metric tons	2.5 tons
Platen Diameter	20.2 mm	0.8"
Die Height Range	22–39 mm	0.86–1.54"
Maximum Die Width	79 mm	3.11"
Mass	4.5 kg	10 lbs
Dimensions (W X D X H)		
Metric	127 x 192 x 201 (min.) mm	
English	5.0 x 7.8 x 7.9 (min.) "	

The comprehensive Pixie Package provides all necessary components to start making pellets in the lab. It includes a 7-mm die, two extra pellet collars, pellet holder, pestle and mortar set, KBr powder and spatula. All die components are made of hardened stainless steel and the parallel surfaces that come in contact with the sample are highly polished for obtaining optimal pellet quality.



Spectrum of calcium oxalate hydrate; KBr pellet made with Pixie Press.

CrushIR Hydraulic Press

AT A GLANCE

- ▶ Up to 15 US tons of force
- ▶ Digital force readout for exceptional reproducibility
- ▶ Adjustable maximum force
- ▶ Small footprint
- ▶ Transparent safety shield

The CrushIR is an advanced hydraulic press for making excellent-quality KBr pellets and thin films for transmission FTIR analysis. With its integrated digital force reading, the CrushIR™ provides exceptional reproducibility.

The PIKE CrushIR features a small footprint and includes a transparent protective shield, making it safe for operation in a busy laboratory environment. Access for vacuum hose and other utilities is made through a port in the rear of the press.



PART NUMBER	DESCRIPTION
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Hydraulic Press (*select one*)

181-1100	CrushIR Hydraulic Press
181-1110	CrushIR Hydraulic Press, Evacuatable Pellet Press and Magnetic Holder
181-1120	CrushIR Heated Platens Package Includes CrushIR, Heated Platens and Digital Temperature Control Module

Note: The PIKE CrushIR Hydraulic Press includes an integrated safety shield.

Options and Replacement Parts

161-1900	Evacuatable Pellet Press for 13-mm pellets
160-8010	KBr Powder, 100 g
161-5050	Agate Mortar and Pestle, 50 mm
162-5300	Magnetic Film Holder for 13-mm pellets
162-5410	Sample Card for 13-mm pellets (10 ea.)
430-1110	Vacuum Pump, 110V
430-1220	Vacuum Pump, 220V
161-1070	ShakIR, Heavy Duty Sample Grinder, 110-220V
161-1035	Stainless Steel Vial with Ball for ShakIR

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

SPECIFICATIONS

	Metric	English
Clamp Force, Max	13.6 metric tons	15 US tons
Platen Diameter	100 mm	3.94"
Ram Stroke	5 mm	0.2"
Die Height Range	5–11.5 cm	2–4"
Dimensions (W X D X H)	31 x 25 x 35 cm	12 x 9.8 x 13.5"
Mass	23.6 kg	52 lbs
Power Supply		
Input	90–264 V, auto setting, external power supply	
Output	9 VDC/18 W maximum	

The adjustable top screw provides flexibility for die designs of short and longer dimensions yielding an open stand range from 2 to 4" (5 to 11.5 cm). The efficient sized ram stroke of 0.2" (5 mm) and adjustment screw speeds pellet making by minimizing the time required to achieve the desired force. All mechanical components of the press are enclosed in a safety metal cabinet.

The PIKE Evacuatable Pellet Press and 13-mm pellet holder are an excellent addition to the PIKE CrushIR. A packaged version of these three products is available.

Olympus 15-Ton

AT A GLANCE

- ▶ Automated Hydraulic Press
- ▶ Variable force from 1 to 15 US tons
- ▶ Fully automated for consistent and reproducible results
- ▶ Easy to use touch-screen programming
- ▶ Wide access door with transparent window and safety interlock

The Olympus 15-Ton microprocessor controlled automated hydraulic press introduces an element of consistency into hydraulic press applications such as KBr pellet making.

Pressure and corresponding hold time are easily entered through its integrated touch-screen control panel. Up to four pressure hold time and ramps may be programmed and performed within a run. During operation the force measurement is shown on the bright color display. This level of control enhances the uniformity and quality of transmission samples.



PART NUMBER	DESCRIPTION
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181-1365	Olympus Hydraulic Press
181-1367	Olympus Hydraulic Press, Evacuatable Pellet Press and Magnetic Holder

Note: Olympus includes an integrated safety shield.

Options and Replacement Parts

161-1900	Evacuatable Pellet Press for 13-mm pellets
160-8010	KBr Powder, 100 g
161-5050	Agate Mortar and Pestle, 50 mm
162-5300	Magnetic Film Holder for 13-mm pellets
162-5410	Sample Card for 13-mm pellets (10 ea.)
430-1110	Vacuum Pump, 110V
430-1220	Vacuum Pump, 220V
161-1070	ShakIR, Heavy Duty Sample Grinder, 110-220V
161-1035	Stainless Steel Vial with Ball for ShakIR

Notes: ShakIR requires stainless steel vial and ball P/N 161-1035.

SPECIFICATIONS

	Metric	English
Applied Force, Max	13.4 metric tons	15.0 US tons
Force Resolution	0.09 metric ton	0.10 US ton
Platen Diameter	100 mm	3.94"
Ram Stroke	20 mm	0.79"
Die Height Range	3.38 - 14.91 cm	1.33 - 5.87"
Opening Size, Max	150 x 130 mm	5.9 x 5.1"
Dimensions (W X D X H)	22.05 x 48.03 x 42.55 cm	8.68 x 18.91 x 16.75"
Weight	90.7 kg	200 lbs
Door	Fully Interlocked	
Power Supply		
Input	100-240 VAC	
Operating	7A/24 VDC, 180 W maximum	

Olympus is equipped with a wide access door that allows for easy insertion and removal of the pellet press. The door features an impact resistant, polycarbonate window and safety interlock which prevents operation while the door is open, making it safe for operation in a busy laboratory environment.

The ergonomic screw at the top of the press provides flexibility for short and tall die designs, yielding an open stand range from 3.38 to 15.62 cm. The optimal ram stroke of 20 mm and easy top screw adjustment speeds pellet making by reducing time required to achieve the desired force.

Fuji 25-Ton

AT A GLANCE

- ▶ Automated Hydraulic Press
- ▶ Variable force from 1 to 25 US tons
- ▶ Fully automated for consistent and reproducible results
- ▶ Ideal for FTIR and XRF pellet preparation
- ▶ Easy to use touch-screen programming
- ▶ Wide access door with transparent window and safety interlock

The Fuji 25-ton hydraulic press introduces an element of consistency into pellet making for XRF and IR analysis. Its automated features allow for precise applications of force.

Within a single run, up to four pressure steps and corresponding hold time are easily entered through its integrated touch-screen control panel. During operation the real-time applied force is shown on the color display. This level of control enhances the uniformity and quality of prepared samples.



PART NUMBER	DESCRIPTION
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181-1375	Fuji Hydraulic Press
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Note: Fuji includes an integrated safety shield.

Options and Replacement Parts

161-2020	Evacuatable Pellet Press for 20-mm pellets
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161-2025	Evacuatable Pellet Press for 25-mm pellets
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161-2032	Evacuatable Pellet Press for 32-mm pellets
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161-1900	Evacuatable Pellet Press for 13-mm pellets
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160-8010	KBr Powder, 100 g
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161-5050	Agate Mortar and Pestle, 50 mm
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162-5300	Magnetic Film Holder for 13-mm pellets
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162-5410	Sample Card for 13-mm pellets (10 ea.)
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430-1110	Vacuum Pump, 110V
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430-1220	Vacuum Pump, 220V
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161-1070	ShakIR, Heavy Duty Sample Grinder, 110-220V
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161-1035	Stainless Steel Vial with Ball for ShakIR
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Notes: ShakIR requires stainless steel vial and ball P/N 161-1035.

SPECIFICATIONS

	Metric	English
Applied Force, Max	22.7 metric tons	25.0 US tons
Force Resolution	0.09 metric ton	0.10 US ton
Platen Diameter	100 mm	3.94"
Ram Stroke	20 mm	0.79"
Die Height Range	3.38 - 14.91 cm	1.33 - 5.87"
Opening Size, Max	150 x 130 mm	5.9 x 5.1"
Dimensions (W X D X H)	22.05 x 48.03 x 42.55 cm	8.68 x 18.91 x 16.75"
Weight	90.7 kg	200 lbs
Door	Fully Interlocked	
Power Supply		
Input	100-240 VAC	
Operating	7A/24 VDC, 180 W maximum	

Fuji is equipped with a wide access door that allows for easy insertion and removal of the pellet press. The door features an impact resistant, polycarbonate window and safety interlock which prevents operation while the door is open, making it safe for operation in a busy laboratory environment.

The ergonomic screw at the top of the press provides flexibility for short and tall die designs, yielding an open stand range from 3.38 to 15.62 cm. The optimal ram stroke of 20 mm and easy top screw adjustment speeds pellet making by reducing time required to achieve the desired force.

A wide range of pellet dies are available, ranging from 13 to 32 mm to most cover KBr and XRF pellet making needs. For sizes not listed here, please contact PIKE Technologies.

Heated Platens

AT A GLANCE

- Fast, efficient means of making polymer thin films for transmission spectroscopy
- Temperature control to 300 °C
- Standard stainless steel spacer set included
- Easy insertion and removal of heated platens into the hydraulic press

The Heated Platens Accessory is designed to efficiently make thin films of polymer materials for infrared transmission spectroscopy.

IR transmission spectra of thin films, which are made from polymer pellets or other plastic sample forms, offer more sensitivity than typical ATR spectra. Polymer films are ideal for investigating polymer additives.

Typically a 2–5 milligram portion of polymer is cut from the pellet or other plastic sample and placed between aluminum disks within the heated base of the platens. The temperature of the platens is chosen to match the melting point of the polymer material. The top plate of the heated platens accessory is placed over the assembly and the unit is inserted into the hydraulic press. A low force (2 tons) is applied to the sample in the heated platens accessory to make excellent films.

The Heated Platens Accessory includes insulating disks to maintain the desired temperature at the sample's melting point when making thin polymer films. These insulating disks improve the quality of thin films by making them more IR transmissive. Flattening the polymer below its melting point produces a cloudy film. Pressing the polymer film when it is above its melting point may cause polymer degradation.

The PIKE Heated Platens Accessory is compatible with the PIKE CrushIR™ Hydraulic Press and other hydraulic presses.



PART NUMBER	DESCRIPTION
181-2000	PIKE Heated Platens Accessory
181-1120	PIKE CrushIR Heated Platens Package Includes CrushIR hydraulic press, Heated Platens and digital temperature control module
Notes: The Heated Platens Accessory includes spacer set, thermal insulating disks, cooling chamber, aluminum disks and magnetic film holder. P/N 181-2000 requires selection of temperature controller below.	
Temperature Controller for Heated Platens (<i>must select</i>)	
076-1610	Digital Temperature Control Module
Note: The digital temperature controller is required for operation of the Heated Platens Accessory.	
181-3000	Spacer Set, 15, 25, 50, 100, 250, 500 microns
181-3020	Aluminum Disks (50 ea.)
181-3010	Spacer, 15 microns
181-3011	Spacer, 25 microns
181-3012	Spacer, 50 microns
181-3013	Spacer, 100 microns
181-3014	Spacer, 250 microns
181-3015	Spacer, 500 microns
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-5410	Sample Card for 13-mm pellets (10 ea.)
Note: For more film holder options, see Sample Holders section.	

SPECIFICATIONS

Composition	Stainless steel platens, mirrored surfaces
Temperature Range	Ambient to 300 °C
Temperature Stability	Insulated, < 3 °C loss at 125 °C set point during press of film
Sensor Type	3 wire Pt RTD (low drift, high stability)
Heating Time	Ambient to 100 °C, less than 7 minutes
Cooling Chamber	Standard, convection via liquid circulation (not supplied)
Pressing Height	33 mm
Spacer Thickness	15, 25, 50, 100, 250 and 500 microns
Spacer ID	25 mm
Dimensions (W X D X H)	64 x 264 x 52 mm
Maximum Force	3 US tons
Temperature Controller	Touch-panel display with USB interface.
Input	100–240 VAC, auto setting, external power supply
Output	24 VDC/100 W maximum

ShakIR & Super ShakIR

AT A GLANCE

- ▶ Produce finely powdered mix of sample and diluent—ideal for clear pellets and excellent diffuse reflectance spectra
- ▶ Minimize exposure of sample to atmospheric moisture—a chief cause of cloudy pellets
- ▶ Options for grinding ordinary and difficult samples
- ▶ Built-in safety features

The ShakIR accessories are ball mills for a fast and simple mixing and grinding of samples. These mills are ideal for diffuse reflection sampling and in preparation for making KBr pellets.

A small amount of sample or the IR transparent diluent (typically KBr) is simply scooped into a vial with mixing ball. The accessory thoroughly mixes and pulverizes the contents within seconds.



Super ShakIR.

Standard ShakIR.

PART NUMBER	DESCRIPTION
161-1070	ShakIR, Heavy Duty Sample Grinder, 110-220V Includes mount for 1" vials
	ShakIR Vials (<i>required</i>)
161-1035	Stainless Steel Vial with Ball, 1" long x 0.5"
	Options and Replacement Parts for ShakIR
161-1037	Spare Stainless Steel Ball
160-8010	KBr Powder, 100 g
	Super ShakIR
161-1080	Super ShakIR, Sample Grinder, 110-220V Includes mount for 1.7" vials with 2 end-cups, a stainless steel vial, 50 stainless steel balls and a bullet-shaped bead
	Options and Replacement Parts for Super ShakIR
161-1038	Bullet-Shaped Bead
161-1039	Stainless Steel Vial, 1.7" long
161-1041	Stainless Steel Balls, assorted sizes (50 pieces)
161-1036	Polymer Vials (20 ea.)

The standard ShakIR uses reciprocating motion of the vial holder that follows a "figure 8" path. The vial is swung through a 5-degree arc at high RPMs causing the ball to strike the end of the vial, which is sufficient to grind most materials into a powder.

The accessory provides electronic control for precise and reproducible setting of grinding time up to 95 seconds. The protective shield provides security to grinder operation. The ShakIR construction and weight offer long-term, reliable operation and minimized vibration and noise. The ShakIR features a small footprint. The base is 15 cm x 18 cm with a height of 28 cm.

The Super ShakIR also uses "figure 8" reciprocating motion for sample grinding, plus it offers more control over grinding speed and time intervals – specifically, 6 RPM levels from 2500 to 4600 are available and samples can be ground from 5 to 60 seconds. This provides a wide range of settings for bringing even very difficult samples to fine powder consistency quickly.

The Super ShakIR features a heavy-duty metal body with a chemically-resistant stainless steel grinding chamber. The unit operates quietly, regardless of RPM settings. The grinding chamber is protected by the door with a viewing window. For safety, the accessory will not operate until the door is fully closed. The Super ShakIR footprint is 18 cm x 28 cm and its height is 16 cm.

Sample Preparation Accessories

AT A GLANCE

- Accessories for analysis of solids by transmission and diffuse reflectance
- Materials for pellets and mulls

Preparation of samples for FTIR analysis by diffuse reflection or transmission analysis requires a number of tools and accessories for convenient and high quality results.

PIKE Technologies has assembled these tools to make your FTIR sampling easier. IR transparent powders and chunks, mulling agents and manual sample grinding tools with a complete selection of agate mortars and pestles are in stock and ready for immediate delivery.

PART NUMBER	DESCRIPTION
IR Transparent Powders	
160-8010	KBr Powder, 100 g
IR Transparent Chunks	
160-8015	KBr Chunks, 100 g
Mulling Agents	
161-0500	Nujol®
161-0510	Fluorolube®
Agate Mortar and Pestles	
161-5035	35 mm O.D., 33 mm I.D.
161-5040	40 mm O.D., 37 mm I.D.
161-5050	50 mm O.D., 44 mm I.D.
161-5065	65 mm O.D., 55 mm I.D.
161-5095	95 mm O.D., 80 mm I.D.
161-5100	100 mm O.D., 82 mm I.D.
161-5225	125 mm O.D., 104 mm I.D.
161-5150	150 mm O.D., 124 mm I.D.
Note: The 50-mm Agate Mortar and Pestle is our most popular size and recommended for most applications.	
Spatulas for Solids and Mulls	
042-3035	Spatula – spoon
042-3050	Spatula – flat
Note: For more sample preparation tool options contact PIKE Technologies.	



Sample Holders For Transmission FTIR Analysis

Transmission sample holders are convenient tools to have in the lab. They position KBr pellets, films, mulls and smears at the correct beam height in the sample compartment for quick measurements. All holders are constructed of high-quality materials and feature a 2 x 3" standard slide mount compatible with all FTIR spectrometers.



UNIVERSAL SAMPLE HOLDERS

Feature a spring-loaded mechanism which conveniently keeps in place films, salt plates, KBr pellets and other materials. The clear aperture of the holders is 20 and 10 mm. This universal holder offers great sample mounting flexibility.



HEAVY-DUTY MAGNETIC FILM HOLDER

Designed to hold thick polymer materials and other transmission samples. The holder features a large size magnet and steel plate with a 20-mm aperture.



THE SINGLE PELLETT HOLDER

Holds 7-mm KBr pellet collar, and is designed for use with the PIKE Technologies Hand Press and Pixie Hydraulic Press. For making only 7-mm pellets, this version is more convenient than the Dual Pellet Holder.



A DUAL PELLETT HOLDER

Holds 1-, 3- and 7-mm KBr pellet collars, and features semi-circular mounts with slots accommodating specified size pellets as made using the PIKE Technologies Hand Press.



PRESS-ON DEMOUNTABLE CELL HOLDERS

Used for the analysis of smears and mulls. Available in 25- and 38-mm versions, both include mounting plate and pressure cap. Windows and spacers must be ordered separately.



THE MAGNETIC FILM/PELLET HOLDER

Used to mount KBr pellets and thin polymer films. Its components include a steel plate and flexible magnetic strip. The holder is designed to support 13-mm KBr pellets and films less than 0.5-mm thick.



BOLT PRESS AND GAS CELL HOLDERS

Available in three different sizes. Each holder has detachable support rods for different sized accessories. The holders can also be used for placing salt plates and other large samples.

PART NUMBER	DESCRIPTION
162-5600	Universal Sample Holder, 20-mm aperture*
162-5610	Universal Sample Holder, 10-mm aperture*
162-5500	Heavy-Duty Magnetic Film Holder
162-5300	Magnetic Film Holder for 13-mm pellets and film samples
162-3600	Press-On Demountable Cell Holders for 25-mm windows
162-3610	Press-On Demountable Cell Holders for 32-mm windows
161-1018	Single Pellet Holder for 7-mm pellets
161-1025	Single Pellet Holder for 1- and 3-mm pellets
161-5700	Dual Pellet Holder*
162-5410	Sample Card for 13-mm pellets (10 ea.)*
162-5400	Film Sampling Card, 20-mm aperture (10 ea.)*
161-2520	Bolt Press Holder
162-2105	Gas Cell Holder, 25 x 50 or 100 mm
162-2205	Gas Cell Holder, 38 x 50 or 100 mm

Notes: For more sample holder options, please contact PIKE Technologies. Holders marked "*" fit all standard 2 x 3" slide mounts, but due to their height may not allow for a complete sample compartment door closure on some smaller spectrometers. Please consult PIKE Technologies before placing an order.

Replacement Parts

162-5611	O-Rings for 20-mm Universal Sample Holder (6 ea.)
162-5612	O-Rings for 10-mm Universal Sample Holder (6 ea.)



SAMPLING CARDS

Inexpensive sample holders for analysis of films, polymers, 13-mm KBr pellets and other materials. Self-adhesive treated sides make sample preparation easy. The cards also offer compact and convenient means of sample storage. Two aperture sizes are available, 10-mm and 20-mm.

Disks, Windows, Powders

AT A GLANCE

- ▶ Wide variety of window material
- ▶ High-quality materials
- ▶ A Range of sizes for all applications
- ▶ Fits accessories and holders

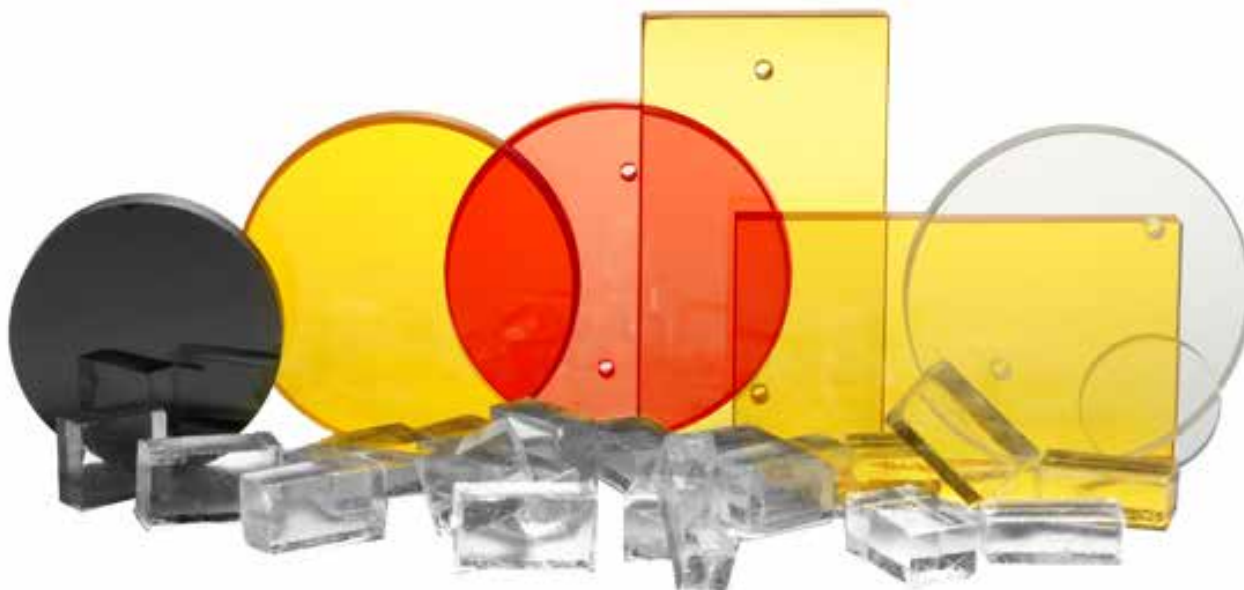
For Transmission FTIR Analysis of Solid and Liquid Samples

PIKE Technologies offers premier stock window and crystal materials – a carefully selected range of IR transparent materials most often used by IR spectroscopists. They fit PIKE accessories and cell holders available from other vendors. All windows, crystals and powders are made from the best quality material.

The optical components are individually packaged and silica gel is included with those materials which are affected by humidity. Please refer to the next pages for full range of IR optical materials, windows and crystals.

Save on price and shipping cost by selecting 6-pack versions of popular crystals.

PART NUMBER	DESCRIPTION
Powders	
160-8010	KBr Powder, 100 g
Chunks	
160-8015	KBr Chunks, 100 g





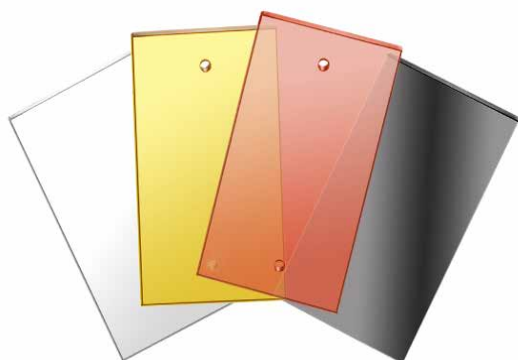
PART NUMBER	DESCRIPTION
Disks, 13 mm Diameter	
1 mm Thickness	
160-5003	KBr, 13 x 1 mm
160-5004	NaCl, 13 x 1 mm
160-1149	BaF ₂ , 13 x 1 mm
160-5001	CaF ₂ , 13 x 1 mm
2 mm Thickness	
160-1301	AMTIR, 13 x 2 mm
160-1218	BaF ₂ , 13 x 2 mm
160-1213	CaF ₂ , 13 x 2 mm
160-1198	CsI, 13 x 2 mm
160-1191	Ge, 13 x 2 mm
160-1135	KBr, 13 x 2 mm
160-1008	KBr, 13 x 2 mm (6-pack)
160-1173	KRS-5, 13 x 2 mm
160-1170	NaCl, 13 x 2 mm
160-1005	NaCl, 13 x 2 mm (6-pack)
160-5201	SiO ₂ , 13 x 2 mm
160-5120	SiO ₂ , low OH, 13 x 2 mm
160-1160	Si, 13 x 2 mm
160-1241	ZnS, 13 x 2 mm
160-1115	ZnSe, 13 x 2 mm
160-1001	ZnSe, 13 x 2 mm (6-pack)
Disks, 20 mm Diameter, 2 mm Thickness	
160-1148	BaF ₂ , 20 x 2 mm
160-1144	CaF ₂ , 20 x 2 mm
160-1197	CsI, 20 x 2 mm
160-1139	Ge, 20 x 2 mm
160-1134	KBr, 20 x 2 mm
160-1128	KRS-5, 20 x 2 mm
160-1169	NaCl, 20 x 2 mm
160-5211	Polyethylene, 20 x 2 mm
160-5119	SiO ₂ , 20 x 2 mm
160-5121	SiO ₂ , low OH, 20 x 2 mm
160-1118	Si, 20 x 2 mm
160-5118	ZnS, 20 x 2 mm
160-1304	ZnSe, 20 x 2 mm

PART NUMBER	DESCRIPTION
Disks, 25 mm Diameter	
2 mm Thickness	
160-1201	AMTIR, 25 x 2 mm
160-1306	BaF ₂ , 25 x 2 mm
160-1212	CaF ₂ , 25 x 2 mm
160-1002	CaF ₂ , 25 x 2 mm (6-pack)
160-1308	CsI, 25 x 2 mm
160-1307	Ge, 25 x 2 mm
160-1305	KBr, 25 x 2 mm
160-1172	KRS-5, 25 x 2 mm
160-1168	NaCl, 25 x 2 mm
160-1004	NaCl, 25 x 2 mm (6-pack)
160-5213	Polyethylene, 25 x 2 mm
160-5086	SiO ₂ , 25 x 2 mm
160-5122	SiO ₂ , low OH, 25 x 2 mm
160-1117	Si, 25 x 2 mm
160-5084	ZnS, 25 x 2 mm
160-1155	ZnSe, 25 x 2 mm
160-1007	ZnSe, 25 x 2 mm (6-pack)
4 mm Thickness	
160-1217	BaF ₂ , 25 x 4 mm
160-1211	CaF ₂ , 25 x 4 mm
160-1196	CsI, 25 x 4 mm
160-1138	Ge, 25 x 4 mm
160-1133	KBr, 25 x 4 mm
160-1009	KBr, 25 x 4 mm (6-pack)
160-1127	KRS-5, 25 x 4 mm
160-1124	NaCl, 25 x 4 mm
160-1012	NaCl, 25 x 4 mm (6-pack)
160-5214	Polyethylene, 25 x 4 mm
160-5089	SiO ₂ , 25 x 4 mm
160-5123	SiO ₂ , low OH, 25 x 4 mm
160-1116	Si, 25 x 4 mm
160-5087	ZnS, 25 x 4 mm
160-1114	ZnSe, 25 x 4 mm
160-1109	ZnSe, double AR coated, 25 x 4 mm
160-1110	ZnSe, single AR coated, 25 x 4 mm
5 mm Thickness	
160-1311	BaF ₂ , 25 x 5 mm
160-1210	CaF ₂ , 25 x 5 mm
160-1316	CsI, 25 x 5 mm
160-1313	Ge, 25 x 5 mm
160-1189	KBr, 25 x 5 mm
160-1003	KBr, 25 x 5 mm (6-pack)
160-1312	KRS-5, 25 x 5 mm
160-1123	NaCl, 25 x 5 mm
160-1011	NaCl, 25 x 5 mm (6-pack)
160-5100	SiO ₂ , 25 x 5 mm

PART NUMBER	DESCRIPTION
160-5124	SiO ₂ , low OH, 25 x 5 mm
160-5090	ZnS, 25 x 5 mm
160-1154	ZnSe, 25 x 5 mm
Disks, 32 mm Diameter, 3 mm Thickness	
160-1200	AMTIR, 32 x 3 mm
160-1199	AMTIR, drilled, 32 x 3 mm
160-1147	BaF ₂ , 32 x 3 mm
160-1017	BaF ₂ , 32 x 3 mm (6-pack)
160-1146	BaF ₂ , drilled, 32 x 3 mm
160-1018	BaF ₂ , drilled, 32 x 3 mm (6-pack)
160-1143	CaF ₂ , 32 x 3 mm
160-1142	CaF ₂ , drilled, 32 x 3 mm
160-1195	CsI, 32 x 3 mm
160-1194	CsI, drilled, 32 x 3 mm
160-1137	Ge, 32 x 3 mm
160-1136	Ge, drilled, 32 x 3 mm
160-1132	KBr, 32 x 3 mm
160-1010	KBr, 32 x 3 mm (6-pack)
160-1131	KBr, drilled, 32 x 3 mm
160-1015	KBr, drilled, 32 x 3 mm (6-pack)
160-1126	KRS-5, 32 x 3 mm
160-1125	KRS-5, drilled, 32 x 3 mm
160-1122	NaCl, 32 x 3 mm
160-1013	NaCl, 32 x 3 mm (6-pack)
160-1121	NaCl, drilled, 32 x 3 mm
160-1014	NaCl, drilled, 32 x 3 mm (6-pack)
160-5216	Polyethylene, 32 x 3 mm
160-5215	Polyethylene, drilled, 32 x 3 mm
160-5049	SiO ₂ , 32 x 3 mm
160-5125	SiO ₂ , low OH, 32 x 3 mm
160-5052	SiO ₂ , drilled, 32 x 3 mm
160-5126	SiO ₂ , drilled, low OH, 32 x 3 mm
160-1159	Si, 32 x 3 mm
160-1158	Si, drilled, 32 x 3 mm
160-5047	ZnS, 32 x 3 mm
160-5048	ZnS, drilled, 32 x 3 mm
160-1113	ZnSe, 32 x 3 mm
160-1112	ZnSe, drilled, 32 x 3 mm
Disks, 37.5 mm Diameter, 4 mm Thickness	
160-1281	BaF ₂ , 37.5 x 4 mm
160-1286	ZnSe, 1-side AR coated, 37.5 x 4 mm
160-1287	CaF ₂ , 37.5 x 4 mm
160-1288	KBr, 37.5 x 4 mm
160-1289	KCl, 37.5 x 4 mm
160-1290	NaCl, 37.5 x 4 mm
160-1291	ZnSe, 37.5 x 4 mm

PART NUMBER	DESCRIPTION
Disks, 38 mm Diameter	
3 mm Thickness	
160-1349	BaF ₂ , 38 x 3 mm
160-1350	Ge, 38 x 3 mm
160-5220	KBr, 38 x 3 mm
160-1344	KRS-5, 38 x 3 mm
160-5218	Polyethylene, 38 x 3 mm
160-1233	SiO ₂ , 38 x 3 mm
160-5127	SiO ₂ , low OH, 38 x 3 mm
160-1353	Si, 38 x 3 mm
160-1315	ZnS, 38 x 3 mm
160-5025	ZnSe, 38 x 3 mm
6 mm Thickness	
160-1357	AMTIR, 38 x 6 mm
160-1322	BaF ₂ , 38 x 6 mm
160-1342	CaF ₂ , 38 x 6 mm
160-1326	CsI, 38 x 6 mm
160-1323	Ge, 38 x 6 mm
160-1320	KBr, 38 x 6 mm
160-1343	KRS-5, 38 x 6 mm
160-1321	NaCl, 38 x 6 mm
160-5219	Polyethylene, 38 x 6 mm
160-1355	SiO ₂ , 38 x 6 mm
160-5128	SiO ₂ , low OH, 38 x 6 mm
160-1324	Si, 38 x 6 mm
160-1329	ZnSe, 38 x 6 mm
Disks, 41 mm Diameter, 3 mm Thickness	
160-1216	BaF ₂ , 41 x 3 mm
160-1209	CaF ₂ , 41 x 3 mm
160-1188	KBr, 41 x 3 mm
160-1167	NaCl, 41 x 3 mm
160-5217	Polyethylene, 41 x 3 mm
160-5157	ZnS, 41 x 3 mm
160-1341	ZnSe, 41 x 3 mm
Disks, 49 mm Diameter	
3 mm Thickness	
160-5161	ZnS, 49 x 3 mm
160-1153	ZnSe, 49 x 3 mm
6 mm Thickness	
160-5027	BaF ₂ , 49 x 6 mm
160-5206	CaF ₂ , 49 x 6 mm
160-5029	CsI, 49 x 6 mm
160-1187	KBr, 49 x 6 mm
160-5205	KRS-5, 49 x 6 mm
160-1166	NaCl, 49 x 6 mm
160-5164	SiO ₂ , 49 x 6 mm
160-5129	SiO ₂ , low OH, 49 x 6 mm

PART NUMBER	DESCRIPTION
Disks, 50 mm Diameter, 3 mm Thickness	
160-5030	BaF ₂ , 50 x 3 mm
160-1208	CaF ₂ , 50 x 3 mm
160-5173	CsI, 50 x 3 mm
160-1186	KBr, 50 x 3 mm
160-1171	KRS-5, 50 x 3 mm
160-1165	NaCl, 50 x 3 mm
160-5177	ZnS, 50 x 3 mm
160-1152	ZnSe, 50 x 3 mm



PART NUMBER	DESCRIPTION
Windows, 29 x 14 x 4 mm	
160-1215	BaF ₂ , 29 x 14 x 4 mm
160-5010	BaF ₂ , drilled, 29 x 14 x 4 mm
160-1207	CaF ₂ , 29 x 14 x 4 mm
160-5011	CaF ₂ , drilled, 29 x 14 x 4 mm
160-5007	Ge, 29 x 14 x 4 mm
160-5012	Ge, drilled, 29 x 14 x 4 mm
160-1185	KBr, 29 x 14 x 4 mm
160-1184	KBr, drilled, 29 x 14 x 4 mm
160-5009	KRS-5, 29 x 14 x 4 mm
160-5014	KRS-5, drilled, 29 x 14 x 4 mm
160-1164	NaCl, 29 x 14 x 4 mm
160-1163	NaCl, drilled, 29 x 14 x 4 mm

PART NUMBER	DESCRIPTION
Windows, 38 x 19 x 2 mm	
160-1269	AMTIR, 38 x 19 x 2 mm
160-1270	AMTIR, drilled, 38 x 19 x 2 mm
160-1157	Si, 38 x 19 x 2 mm
160-1156	Si, drilled, 38 x 19 x 2 mm
160-1275	ZnS, 38 x 19 x 2 mm
160-1276	ZnS, drilled, 38 x 19 x 2 mm
160-1151	ZnSe, 38 x 19 x 2 mm
160-1150	ZnSe, drilled, 38 x 19 x 2 mm
Windows, 38 x 19 x 4 mm	
160-1214	BaF ₂ , 38 x 19 x 4 mm
160-1145	BaF ₂ , drilled, 38 x 19 x 4 mm
160-1141	CaF ₂ , 38 x 19 x 4 mm
160-1140	CaF ₂ , drilled, 38 x 19 x 4 mm
160-1193	CsI, 38 x 19 x 4 mm
160-1192	CsI, drilled, 38 x 19 x 4 mm
160-1190	Ge, 38 x 19 x 4 mm
160-5032	Ge, drilled, 38 x 19 x 4 mm
160-1130	KBr, 38 x 19 x 4 mm
160-1129	KBr, drilled, 38 x 19 x 4 mm
160-5031	KRS-5, 38 x 19 x 4 mm
160-5016	KRS-5, drilled, 38 x 19 x 4 mm
160-1162	NaCl, 38 x 19 x 4 mm
160-1006	NaCl, 38 x 19 x 4 mm (6-pack)
160-1161	NaCl, drilled, 38 x 19 x 4 mm
160-1292	SiO ₂ , 38 x 19 x 4 mm
160-5130	SiO ₂ , low OH, 38 x 19 x 4 mm
160-1293	SiO ₂ , drilled, 38 x 19 x 4 mm
160-5131	SiO ₂ , drilled, low OH, 38 x 19 x 4 mm
Windows, 41 x 23 x 3 mm	
160-1277	ZnS, 41 x 23 x 3 mm
160-1279	ZnS, drilled, 41 x 23 x 3 mm
160-1111	ZnSe, 41 x 23 x 3 mm
160-1280	ZnSe, drilled, 41 x 23 x 3 mm
Windows, 41 x 23 x 6 mm	
160-5146	BaF ₂ , 41 x 23 x 6 mm
160-5152	BaF ₂ , drilled, 41 x 23 x 6 mm
160-5147	CaF ₂ , 41 x 23 x 6 mm
160-5153	CaF ₂ , drilled, 41 x 23 x 6 mm
160-1183	KBr, 41 x 23 x 6 mm
160-1182	KBr, drilled, 41 x 23 x 6 mm
160-1120	NaCl, 41 x 23 x 6 mm
160-1119	NaCl, drilled, 41 x 23 x 6 mm
Notes: For disk and window sizes other than shown here, please contact PIKE Technologies.	

Crystal Polishing Kit

AT A GLANCE

- Complete kit for polishing IR transparent windows
- Reduces cost of transmission analysis by extending KBr and NaCl window lifetime

Scratched and fogged windows diminish the quality of transmission FTIR spectra. Polishing them using a crystal polishing kit can extend the life of IR transparent salt windows.

Continuous replacement can be impractical and quite expensive. A number of standard infrared windows can be quickly restored to quality condition with the PIKE Technologies Crystal Polishing Kit. The kit includes all the necessary components to repolish KBr and NaCl windows quickly and effectively.

Note: We do not recommend polishing KRS-5 windows due to safety hazards and for this reason do not include materials for polishing KRS-5 windows.

PART NUMBER	DESCRIPTION
162-4000	Crystal Polishing Kit Includes wooden base, glass plates, polishing pads, brushes and polishing compounds
Replacement Parts	
162-4010	Glass Plate
162-4011	Polishing Pads (6 ea.)
162-4015	Brushes (6 ea.)
162-4012	Grinding Compound, 400 grit
162-4013	Grinding Compound, 600 grit
162-4014	Polishing Compound
Note: For other options for window polishing, please contact PIKE Technologies.	

