

CrushIR – Digital Hydraulic Press



FEATURES

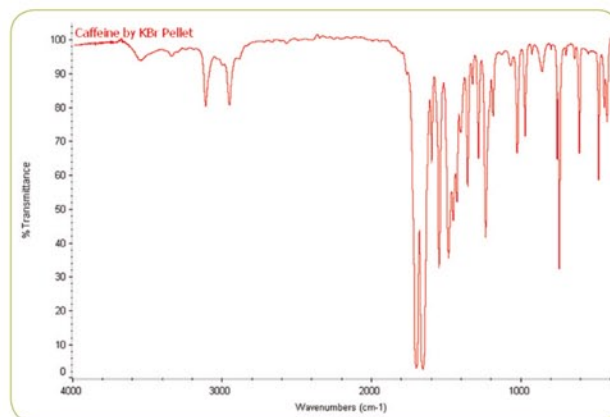
- Up to 15 tons of force
- Digital force readout for exceptional reproducibility
- Adjustable maximum force
- Small footprint
- Transparent safety shield

PIKE Technologies offers 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.

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 3 products is available.



FTIR spectrum of caffeine in KBr pellet made using the PIKE CrushIR Hydraulic Press and Evacuatable Pellet Press.

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
Input Voltage	90–264 V, auto setting, external power supply	
Output Voltage	9 VDC/18 W	

ORDERING INFORMATION

HYDRAULIC PRESS (select one)

PART NUMBER	DESCRIPTION
181-1100	PIKE CrushIR Hydraulic Press
181-1110	PIKE CrushIR Hydraulic Press, Evacuatable Pellet Press and Magnetic Holder
181-1120	PIKE 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

PART NUMBER	DESCRIPTION
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.