



KINTEK PRESS

## Laboratory Press Molds Catalog

Contact us for more catalogs of [Laboratory Hydraulic Press](#), etc.

# KINTEK PRESS

## COMPANY PROFILE

### >>> About Us

KINTEK Press is a technology-driven innovator specializing in precision lab press equipment, including automatic lab presses, isostatic presses, heated lab presses, and other specialized compaction systems. Designed for materials science, research & development, sample preparation, and quality control applications, our robust, reliable systems prioritize precision, safety, and repeatability in demanding pressing operations and material characterization, empowering researchers and industrial labs to achieve groundbreaking results.



# Lab Infrared Press Mold For Laboratory Applications

Item Number: PMID



## Introduction

KINTEK's lab press molds ensure precise sample preparation with durable tungsten carbide construction. Ideal for FTIR, XRF, and battery research. Custom sizes available.

[Learn More](#)

Instrument model	PMID
Sample shape	
Die material	Tungsten carbide
Indenter hardness	HRC68-HRC85
Standard Sample size	Φ13 mm(M)
Cavity depth	20mm(N)
Dimensions	Φ43*78mm(L*H)
Weight	0.76Kg
Diagram of hydraulic powder press die size	

# Lab Infrared Press Mold For No Demolding

Item Number: PMI



## Introduction

Streamline infrared sample prep with KINTEK's non-demountable molds—achieve high transmittance without demolding. Ideal for spectroscopy.

[Learn More](#)

Instrument model	PMI-A	PMI-B
Sample shape		
Die material	Tungsten carbide	
Indenter hardness	HRC68-HRC85	
Sample size	Φ13 mm(M)	Φ7 mm(M)
Cavity depth	10mm(N)	5mm(N)
Dimensions	Φ76*50*70mm(L*W*H)	Φ76*30*70mm(L*W*H)
Weight	0.76Kg	0.35Kg
Diagram of hydraulic powder press size		

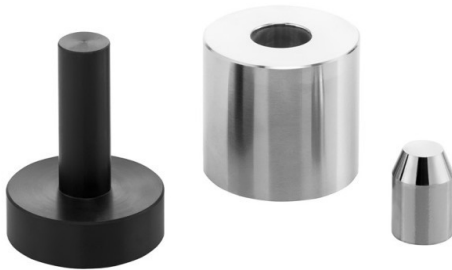
# Lab Button Battery Tablet Press Sealing Mold

Item Number: PMN

## Introduction

Precision Sealing Die for button battery assembly & analysis. Durable hardened steel, CR16-CR30 compatible. Enhance battery integrity & performance. Get yours now!

[Learn More](#)



Instrument model	PMN
Dual-purpose mold	Sealing, opening and dual-use
Sealing function	CR16,CR20,CR24,CR30 optional
Sealing pressure	0.8-1.2 Ton
Dismantling function	CR16,CR20,CR24,CR30 optional
Dismantling pressure	
Diagram of hydraulic powder press size	

# Lab Button Battery Disassembly And Sealing Mold

Item Number: PCKM



## Introduction

KINTEK's precision button battery sealing molds ensure airtight, contamination-free results for labs and production. Boost efficiency with durable, high-performance solutions.

[Learn More](#)

Instrument model	Button battery removal mold	Button battery sealing mold
Disassembly die	CR16,CR20,CR24,CR30 optional	CR16,CR20,CR24,CR30 optional
Disassembly pressure		0.8-1.2Ton
Dimensions	Φ60*140mm(L*H)	Φ60X140mm(LXH)
Weight	1.85kg	1.85kg

Sealing mold size diagram

# Square Bidirectional Pressure Mold For Lab

Item Number: PMS-F



## Introduction

Achieve high-precision powder molding with KINTEK's Square Bidirectional Pressure Mold for superior lab results. Explore now!

[Learn More](#)

<b>Instrument model</b>	<b>PMSY</b>
Sample shape capabilities	
Die material	Alloy tool steel : Cr12MoV
Indenter hardness	HRC60-HRC62
Standard Sample sizes (Customizable)	12*12, 15*15, 18*18, 20*20 mm (M)
Cavity depth	40mm (N)
Dimensions	Φ88*175mm(L*H)
Weight	3.0Kg
Diagram of hydraulic powder press die components	

## Lab Round Bidirectional Press Mold

Item Number: PMSY



### Introduction

Precision Round Bidirectional Press Mold for lab use, high-density compaction, Cr12MoV alloy steel. Ideal for powder metallurgy & ceramics.

[Learn More](#)

Instrument model	PMSY
Sample shape	
Die material	Alloy tool steel : Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size	Φ12□Φ13□Φ15□Φ18□Φ20mm(M)
Cavity depth	40mm (N)
Dimensions	Φ88*175mm(L*H)
Weight	3.0Kg
Diagram of hydraulic powder press size	

## Lab Cylindrical Press Mold With Scale

Item Number: PCMC



### Introduction

KINTEK's Cylindrical Press Mold ensures precision material processing with uniform pressure, versatile shapes, and optional heating. Ideal for labs and industries. Get expert advice now!

[Learn More](#)

Instrument model	PCMC
Sample shape	
Die heating	Alloy tool steel :Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size	Φ10Φ12Φ13Φ15Φ18Φ20 mm (M)
Cavity depth	100mm (N)
Dimensions	Φ53*220mm(L*H)
Weight	4.8Kg
Diagram of hydraulic powder press size	

## Lab Anti-Cracking Press Mold

Item Number: PML



### Introduction

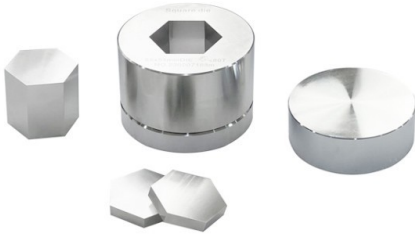
Precision Anti-Cracking Press Mold for lab use. Durable Cr12MoV steel, high-pressure resistant, customizable sizes. Ideal for material testing. Get yours now!

[Learn More](#)

Instrument model	PMT
Sample shape	
Die Material	Alloy tool steel: Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size (Standard Options)	Φ6mm, Φ8mm, Φ10mm, Φ15mm, Φ20mm (Customizable - M)
Cavity depth	40mm (Customizable - N)
Dimensions (Outer)	Φ98*120mm (L*H)
Weight	Approx. 5Kg
Diagram of hydraulic powder press size compatibility	

# Lab Polygon Press Mold

Item Number: PMPD



## Introduction

Precision Polygon Press Mold for metal powders & materials. Custom shapes, high-pressure compaction, durable design. Ideal for labs & manufacturing.

[Learn More](#)

Instrument model	PMPD
Sample shape	(Polygonal, e.g., square, hexagonal, etc.)
Die material	Alloy tool steel: Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size (Examples, Customizable)	5x5, 10x10, 15x15, 20x20 mm (M) (Other sizes available upon request)
Cavity depth	40mm (N) (Customizable)
Dimensions (Overall Mold)	Φ53*120mm (L*H) (May vary based on sample size)
Weight (Approximate)	1.4Kg (May vary based on size)
Diagram of hydraulic powder press size compatibility	

# Lab Ring Press Mold For Sample Preparation

Item Number: PMO



## Introduction

High-precision Ring Press Dies for uniform pellets in labs & industry. Durable Cr12MoV alloy, sizes  $\Phi$ 3-80mm. Boost efficiency & accuracy today!

[Learn More](#)

Instrument model	PMO	
Sample shape		
Die Material	Alloy tool steel: Cr12MoV	
Indenter hardness	HRC60-HRC62	
Sample size options	$\Phi$ 7-3, $\Phi$ 10-5, $\Phi$ 20-10 mm (M)	$\Phi$ 30-10, $\Phi$ 50-20mm (D)
Cavity depth	40mm (N)	45mm (D)
Dimensions	$\Phi$ 53*120mm (L*H)	$\Phi$ 72*100mm, $\Phi$ 88*120mm (D*L)
Weight	1.4Kg	3.5kg, 5kg
Diagram of hydraulic powder press size		

## Lab Ball Press Mold

Item Number: PMQ



### Introduction

High-performance Ball Press Molds for precise lab material shaping. Durable, versatile designs for metal/ceramic compaction. Explore sizes  $\Phi$ 3-80mm. Contact KINTEK experts today!

[Learn More](#)

Instrument model	PMQ	
Sample shape		
Die heating	Alloy tool steel :Cr12MoV	
Indenter hardness	HRC60-HRC62	
Sample size	$\Phi$ 6 $\square$ $\Phi$ 8 $\square$ $\Phi$ 10 $\square$ $\Phi$ 15 $\square$ $\Phi$ 20mm (M)	$\Phi$ 30 $\square$ $\Phi$ 40 $\square$ $\Phi$ 50 mm (M)
Cavity depth	40mm (N)	60 mm (N)
Dimensions	$\Phi$ 53*120mm (L*H)	$\Phi$ 88*150 mm (L*H)
Weight	1.4kg	5.8kg
Diagram of hydraulic powder press size		

# Special Shape Lab Press Mold For Laboratory Applications

Item Number: PMT



## Introduction

Special Shape Press Molds for precise lab applications. Customizable, high-pressure performance, and versatile shapes. Ideal for ceramics, pharmaceuticals, and more. Contact KINTEK today!

[Learn More](#)

Instrument model	PMT
Sample shape	
Die material	Alloy tool steel: Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size (diameter)	Φ6, Φ8, Φ10, Φ15, Φ20mm (M) (Customizable)
Cavity depth	40mm (N) (Customizable)
Dimensions (Outer)	Φ53*120mm (L*H) (Varies by customization)
Weight	Approx. 1.4Kg (Varies by customization)
Diagram of hydraulic powder press size compatibility	

# Xrf Kbr Plastic Ring Lab Powder Pellet Pressing Mold For Ftir

Item Number: PMXP



## Introduction

XRF Powder Pellet Pressing Mold with Plastic Rings for precise sample preparation. Achieve uniform pellets with durable alloy tool steel construction. Custom sizes available.

[Learn More](#)

Instrument model	PMXP
Press the shape of the sample	
Heating temperature	Room temperature - 300°C (Note: for use with heated lab presses or heated mold variants)
Mold material	Alloy tool steel
Sample size	Φ25mm (d)
Sample thickness	15, 25, 50, 100, 250, 500 μm (utilizing 6 quantitative rings)
External dimension	200*60mm (D*H)
Power supply	220V/300W (Note: relevant for associated heated press or heated mold variants)
Size diagram	

# Xrf Kbr Steel Ring Lab Powder Pellet Pressing Mold For Ftir

Item Number: PMXS



## Introduction

Precision XRF steel ring pellet mold for lab sample prep. Durable, efficient, ensures accurate XRF analysis. Custom sizes available. Order now!

[Learn More](#)

Instrument model	PMXS
Sample shape	
Die material	Alloy tool steel: Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size	Φ32mm, Φ40mm (M)
Cavity depth	45mm (N)
Dimensions	Φ73*133mm (L*H)
Weight	3.2Kg
Diagram of hydraulic powder press size	

# Lab Xrf Boric Acid Powder Pellet Pressing Mold For Laboratory Use

Item Number: PMXB



## Introduction

Precision XRF boric acid pellet pressing mold for accurate sample preparation. Durable, high-grade alloy tool steel, ensures reliable XRF spectrometry results.

[Learn More](#)

<b>Instrument model</b>	PMXB
Pressed Sample Shape & Typical Outcome	
Mold Material	Alloy tool steel: C-12Nov
Indenter Hardness	HRC60-HRC62
Standard Sample Sizes	Φ32mm, Φ40mm
Depth of Cavity	45mm (N)
External Dimensions (Diameter x Height)	Φ73mm X 133mm
Mold Weight	3.2Kg
Size Diagram	

Pressure [MPa]	50	100	200	300	400	600	800	1000	1200	1500
Force for Φ32mm Sample [Tons]	4.02	8.04	16	24.1	32.1	48.2	64.3	80.4	96.5	120
Force for Φ40mm Sample [Tons]	6.28	12.5	25.1	37.6	50.2	75.3	100	125	150	188

**Tip:** The mold is optimally used in the 100-800 MPa range. The maximum pressure limit for the mold is 1500 MPa.

# Carbide Lab Press Mold For Laboratory Sample Preparation

Item Number: PMW



## Introduction

Premium carbide lab press molds for precise sample preparation. Durable, high-hardness YT15 material, customizable sizes. Ideal for XRF, battery research & more.

[Learn More](#)

Model	PMW-A	PMW-B	PMW-C				
Material	Carbide YT15						
Indenter hardness	HRC85-HRC90						
Sample size	φ3 /φ4 /φ5 /φ6 /φ8 /φ10 mm	φ12 /φ13 /φ15 /φ18 /φ20 mm	φ22 /φ25 /φ28 /φ30 mm				
Cavity depth	30 mm	40 mm	45 mm				
External dimensions	φ43×93 mm	φ53×120 mm	φ73×133 mm				
Weight(Kg)	0.78	1.8	3.8				

**Other sizes can be customized**

# Assemble Square Lab Press Mold For Laboratory Use

Item Number: PMAS



## Introduction

KINTEK's Assemble Lab Press Mold ensures precise sample prep for delicate materials, preventing damage with quick-disassembly design. Ideal for thin strips & reliable demolding.

[Learn More](#)

Model	PMAS-A	PMAS-B	PMAS-C	PMAS-D	PMAS-E
Material	Cr12MoV				
Indenter hardness	HRC60-HRC62				
Sample size	3*3[4*4[5*5[6*6[8*8[10*10] mm (M)	12*12[15*15[18*18[20*20mm(N)	30*30[40*40 mm (M)	50*50[60*60 mm(M)	70*70[80*80 mm (M)
Cavity depth	30mm (N)	40 mm (N)	50 mm (N)	55 mm (N)	60 mm (N)
External dimensions	Φ53*120mm(L*H)	Φ73*133mm(L*H)	Φ95*133mm[Φ115*133mm(L*H)	Φ127*150mm[Φ153*150mm (L*H)	Φ180*180mm[Φ200*180mm(L*H)
Weight(Kg)	1.2Kg	3.6Kg	7Kg[14Kg	20Kg[30Kg	40Kg[50Kg

**Other sizes can be customized**

# Assemble Lab Cylindrical Press Mold For Laboratory Use

Item Number: PMAC

## Introduction

Premium lab cylindrical press mold for flawless sample prep. Prevents delamination, ultra-durable Japanese steel. Custom sizes available. Get yours now!

[Learn More](#)

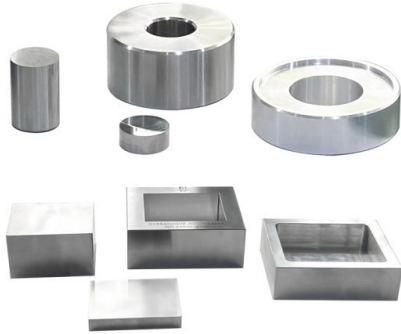


Model	PMAC-A	PMAC-B	PMAC-C	PMAC-D	PMAC-E
Material	Cr12MoV				
Indenter hardness	HRC60-HRC62				
Sample size	Φ3[]Φ4[]Φ5[]Φ6[]Φ8[]Φ10mm (M)	Φ12[]Φ13[]Φ15[]Φ18[]Φ20mm (M)	Φ30[]Φ40mm (M)	Φ50[]Φ60mm (M)	Φ70[]Φ80 mm (M)
Cavity depth	30mm (N)	40 mm (N)	50 mm (N)	55 mm (N)	60 mm (N)
External dimensions	Φ43*93mm(L*H)	Φ53*120mm(L*H)	Φ73*133mm[]Φ95*133mm(L*H)	Φ115*150mm[]Φ127*150mm (L*H)	Φ153*180mm[]Φ180*180mm(L*H)
Weight(Kg)	0.75Kg	1.2Kg	3.8Kg[]6.3Kg	14Kg[]20Kg	30Kg[]40Kg

**Other sizes can be customized**

## Lab Heat Press Special Mold

Item Number: PCHF



### Introduction

Precision KINTEK lab press molds for reliable sample prep. Durable, customizable, and ideal for diverse research needs. Enhance your lab's efficiency today!

[Learn More](#)

Instrument model	PCHF
Sample shape	
Die heating	0°C-500°C
Indenter hardness	SUS 304
Sample size	Rectangular or bone shape
Cavity depth	0.75mm□1.35mm□1.75mm□2.75mm
Dimensions	80x80□180x180□200x200mm
Weight	0.4kg□0.8kg□1.0kg
Diagram of hydraulic powder press size	

# Lab Cylindrical Press Mold For Laboratory Use

Item Number: PMC



## Introduction

Precision cylindrical press molds for lab sample prep. Durable, high-performance, and customizable for XRF, battery research, and material testing. Get yours today!

[Learn More](#)

Instrument model	PMC-A	PMC-B	PMC-C	PMC-D	PMC-E	PMC-F
Die material	High-speed tool steel ASSAB +17			Alloy tool steel :Cr12MoV		
Indenter hardness	HRC68-HRC70		HRC60-HRC62			
Sample size	Φ3[]Φ4[]Φ5[]mm (M)	Φ7[]8[]9[]10[]11[]11.5[]12[]mm(M)	Φ15[]Φ16[]Φ18[]Φ20[]Φ22[]Φ25 (M)	Φ28[]Φ30[]Φ32[]Φ35[]Φ40n (M)	Φ50[]Φ60[]Φ70mm (M)	Φ80[]Φ90[]Φ100mm (M)
Cavity depth	20mm (N)	30mm (N)	40mm (N)	45mm (N)	55[]60[]65mm(N)	65mm(N)
Dimensions	Φ43 * 78mm (L*H)	Φ43*93mm(L*H)	Φ53*120mm(L*H)	Φ73*133mm(L*H)	Φ88*150mm[]Φ98*180mm[]Φ108*180mm(L*H)	Φ118*150mm[]Φ128*180mm[]
Weight	0.55Kg	0.67Kg	1.34Kg	2.9Kg	5.1Kg[]7.3Kg[]9Kg	11.5Kg[]14Kg[]20Kg

**Need a custom size?** We specialize in creating molds tailored to your unique specifications. [Contact us to discuss your custom needs!](#)

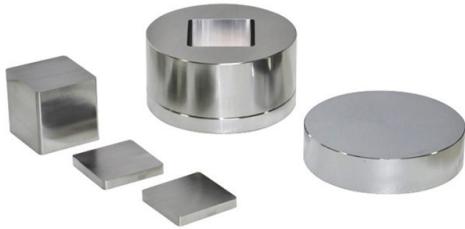
# Square Lab Press Mold For Laboratory Use

Item Number: PMS

## Introduction

KINTEK's Square Lab Press Molds create uniform strip samples with precision. Durable Cr12MoV steel, versatile sizes, ideal for lab applications. Enhance your sample prep today!

[Learn More](#)



Model	PMS-A	PMS-B	PMS-C	PMS-D	PMS-E	PMS-F	PMS-G
Material	Cr12MoV						
Indenter hardness	HRC60-HRC62						
Sample size	3×3 /4×4 /5×5 /6×6 /8×8 /10×10 mm	12×12 /15×15 /16×16 /18×18 /20×20 mm	22×22 /25×25 /30×30 mm	32×32 /35×35 /40×40 mm	50×50 /60×60 /70×70 mm		81-150 mm(long side)    151-200 mm(long side)
Cavity depth	20 mm	30 mm	40 mm	45 mm	55/60/65 mm		60 mm    60 mm
External dimensions	φ43×93mm	φ53×120mm	φ73×133mm	φ88×150mm	φ98×150mm/φ118×180mm/φ138×180mm		160×140mm    220×160mm
Weight(Kg)	0.65	1.2	2.4	4.8	7.3/11.4/20		25kg-40kg    45kg-80kg

Other sizes can be customized. [Contact us for details.](#)

## Lab Isostatic Pressing Molds For Isostatic Molding

Item Number: PIPM



### Introduction

High-quality isostatic pressing molds for lab presses - achieve uniform density, precision components, and advanced material research. Explore KINTEK's solutions now!

[Learn More](#)

# Lab Double Plate Heating Mold For Laboratory Use

Item Number: PMD



## Introduction

Precision Double Plate Heating Mold for labs, featuring dual-zone temperature control, rapid cooling, and uniform heating. Ideal for material testing and sample preparation.

[Learn More](#)

Instrument model	PMD
Press the shape of the sample	
Heating temperature	Room temperature-300°C (Models up to 500°C available)
Mold material	Alloy tool steel:Cr12MoV
Indenter hardness	HRC60-HRC62
Sample size	Contact us for customizable options
Sample thickness	0.02-0.1mm(N)
External dimension 1	180*180*130mm(L*W*H)
External dimension 2	200*200*130mm(L*W*H)
External dimension 3	300*300*130mm(L*W*H)
Mold weight	32Kg / 38Kg / 88Kg

Dimensional diagram

# Cylindrical Lab Electric Heating Press Mold For Laboratory Use

Item Number: PMH

## Introduction

KINTEK's Cylindrical Electric Heating Press Mold offers rapid heating (up to 500°C), precise control, and customizable sizes for lab sample preparation. Ideal for battery, ceramic, and material research.

[Learn More](#)



Press the shape of the sample	
Heating temperature	Room temperature-300.0C (Models up to 500°C available)
Material of lint	Alloy tool steel:440C
indenter hardness	HRC60-HRC62
Sample size	Φ10, Φ13, Φ15, Φ20, Φ30, Φ40mm (Customizable)
Depth of cavity	40mm(N)
External dimansions	Φ78*138mm, Φ90*138mm(L**H)
Power supply	300 W (220V/110V can be customized)
Mold weight	Approximately 9kg

Dimensional diagram

Mold pressure [Mpa]	50	100	300	400	600	800	1000	1200	1500
Φ8 T	0.25	0.5	1.5	2.01	3.01	4.02	5.02	6.03	7.53
Φ10 T	0.39	0.78	2.35	3.14	4.71	6.28	7.85	9.42	11.7
Φ12 T	0.56	1.13	3.39	4.52	6.78	9.04	11.3	13.5	16.9
Φ13 T	0.66	1.32	3.98	5.3	7.96	10.6	13.2	15.9	19.9
Φ15 T	0.88	1.76	5.3	7.06	10.6	14.1	17.6	21.2	26.5
Φ20 T	1.57	3.14	9.42	12.5	18.8	25.1	31.4	37.6	47.1

# Infrared Heating Quantitative Flat Plate Mold For Precise Temperature Control

Item Number: PMHD



## Introduction

Precise Infrared Heating Flat Plate Mold for labs - uniform heat distribution, PID control, high-temperature stability. Enhance your sample prep today!

[Learn More](#)

Instrument model	PMHD-A	PMHD-B
Sample shape		
Die heating	0.0°C-300.0°C	0.0°C-300.0°C
Die material	Alloy tool steel :Cr12MoV	Alloy tool steel :Cr12MoV
Sample size	Φ50mm (d)	Φ25mm (d)
Sample thickr	15-100μm	25[50]100[250]500μm(6 measuring loops)
Dimensions	200*60mm (D*H)	200*60mm(D*H)
Weight	220V/300W	220V/300W
Diagram of hydraulic powder press size		



## Kintek Press

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