

2 96 Mm Laboratory Heated Electric Vertical Two Roll Mill

Battery Roller Press Electric Rolling Roller Press

Item Number: DG01



Introduction

Heated electric vertical two roll mill with adjustable gap speed and temperature for precise lithium battery electrode rolling research and advanced materials processing in laboratories with reversible operation durable chrome plated rolls and controlled thickness for consistent electrode

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Application	Description	Key Benefit
Lithium Battery Electrode Preparation	Roll coating or electrode sheet materials between the heated rollers to reduce thickness and increase material density.	Produces controlled electrode compression for repeatable battery material development.
Clean Energy Materials Research	Process lithium battery and related energy materials under selected room temperature or heated conditions.	Allows researchers to compare thermal and non thermal rolling conditions using one unit.
Battery R&D Process Development	Evaluate roller gap, feed speed, and temperature combinations during laboratory scale electrode process optimization.	Provides adjustable process variables for systematic development and small batch trials.
Powder Metallurgy	Compact and reduce the thickness of suitable powder based sheets and strip materials under controlled roller pressure.	Supports repeatable dimensional processing before subsequent material evaluation.
Ceramic Materials Research	Conduct controlled rolling trials on compatible ceramic sheet or strip formulations where adjustable thickness is required.	Offers a precise laboratory method for studying material densification and sheet formation.
Academic Advanced Materials Research	Prepare and compare experimental material sheets across different rolling speeds, gaps, and temperatures.	Combines compact installation with practical controls for teaching and research workflows.

Parameter	Specification
Product Item Number	DG01
Product Type	Laboratory heated electric vertical two roll mill and battery roller press
Roller Quantity and Diameter	2-Φ96 mm
Roller Hardness	HRC62
Roller Surface Finish	0.4μm
Roller Cylindricity	≤±2μm
Rolling Thickness or Roller Gap	0~3mm, adjustable
Sheet Pressing Width	0~180mm
Roller Arrangement	Vertical
Rolling Temperature	Room temperature~250°C, adjustable
Maximum Operation at 250°C	Work at 250°C must not exceed 40 min
Operating Mode	Electric
Forward and Reverse Operation	Available

Parameter	Specification
Voltage and Frequency	AC220V/50Hz
Power	2000W
Feed Speed	0~40mm/s, adjustable
Adjustable Parameters	Sheet thickness, speed, and heating temperature
Overall Dimensions	L600mmW220mmH320mm
Equipment Weight	85KG
Standard Configuration	One set of hexagonal socket wrenches, 2 dial indicators, and 1 feeler gauge