

Laboratory Electric Vertical Two Roll Mill 100Mm 200Mm 300Mm Width

Item Number: DG05



Introduction

Laboratory electric vertical two roll mill with 100 mm 200 mm and 300 mm rolling widths for precise battery electrode thinning density enhancement adjustable thickness and dependable materials research processing for lithium battery materials and clean energy applications

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Application	Description	Key Benefit
Lithium Battery Electrode Densification	Compress and reduce the thickness of lithium battery electrode sheets after coating or material preparation.	Improves control of electrode thickness and material density during cell development studies.
Battery Material Process Development	Compare rolling gaps, feed speeds, and material responses across experimental batches.	Provides repeatable adjustment and direct digital readings for process evaluation.
Clean Energy Material Research	Process sheet-form materials used in emerging energy-storage and clean-energy research programs.	Supports flexible laboratory experimentation within a compact footprint.
Electrode Strip Rolling	Feed strip or sheet materials through vertically arranged rolls for controlled compression.	Simplifies material entry and supports efficient handling of continuous or segmented samples.
Powder Metallurgy Research	Study the rolling and densification behavior of powder-based materials formed into sheets or strips.	Enables controlled thickness reduction and repeatable laboratory-scale comparisons.
Advanced Materials Development	Evaluate the effect of compression, thickness, and rolling speed on experimental material structures.	Combines adjustable operating conditions with precision roll geometry.
Academic Materials Science	Support teaching laboratories and university research involving sheet processing and material densification.	Offers straightforward electric operation and visible adjustment readings for practical experimentation.

Parameter	DG05 100 mm	DG05 200 mm	DG05 300 mm
Roll diameter	Φ100 mm	Φ100 mm	Φ100 mm
Roll cylindricity	≤±2 μm	≤±2 μm	≤±2 μm
Roll hardness	HRC62	HRC62	HRC62
Roll surface finish	0.4 or better	0.4 or better	0.4 or better
Rolling thickness	0 to 2 mm adjustable gap	0 to 2 mm adjustable gap	0 to 2 mm adjustable gap
Sheet rolling width	0 to 100 mm	0 to 200 mm	0 to 300 mm
Roll placement	Vertical	Vertical	Vertical
Sheet thickness display	Digital gauge display; digital display and adjustment for precise, clear operation	Digital gauge display; digital display and adjustment for precise, clear operation	Digital gauge display; digital display and adjustment for precise, clear operation
Operating method	Electric	Electric	Electric
Voltage and frequency	AC220V/50Hz	AC220V/50Hz	AC220V/50Hz

Parameter	DG05 100 mm	DG05 200 mm	DG05 300 mm
Power	120 W	200 W	200 W
Feed speed	0 to 40 mm/s	0 to 40 mm/s	0 to 40 mm/s
External dimensions	L520 mm × W220 mm × H350 mm	L620 mm × W220 mm × H350 mm	L720 mm × W220 mm × H350 mm
Equipment weight	60 kg	85 kg	105 kg
Standard accessories	One set of hexagon socket wrenches; two digital gauges; one feeler gauge	One set of hexagon socket wrenches; two digital gauges; one feeler gauge	One set of hexagon socket wrenches; two digital gauges; one feeler gauge