

150 X 200 Mm Laboratory Heated Rolling Mill Electrode Sheet Two Roll Mill

Item Number: DG14



Introduction

150 x 200 mm laboratory heated rolling mill for lithium electrode sheets with independently controlled rolls, adjustable 0-3 mm gap, 15 T pressure, and variable speed densification for battery materials research and pilot-line development and precious metal trials.

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Application	Description	Key Benefit
Lithium-ion battery electrode calendaring	Compress cathode or anode sheets during small-scale electrode fabrication after coating and drying.	Reduces electrode-sheet thickness and increases density for laboratory evaluation.
Clean-energy material research	Study the response of lithium battery plate materials to controlled heated rolling conditions.	Independent roll-temperature control and adjustable line speed support process-condition investigation.
University battery laboratories	Support teaching, experimental work, and research projects using compact electrode-sheet formats.	Single-phase 220V power and a 200 mm maximum working width suit laboratory and experimental-line use.
Enterprise battery trial lines	Perform small-batch electrode rolling before or alongside production-oriented development work.	Adjustable 0-3 mm gap and 0-6.0 m/min line speed provide controllable processing settings.
Precious-metal manual rolling	Roll small quantities of gold or silver for laboratory material preparation or research use.	Heated rolls and adjustable separation provide a dedicated manual rolling capability.
Non-ferrous metal sample processing	Process copper, aluminum, and other non-ferrous materials in small quantities.	HRC62 roll surfaces and up to 15T pressure support controlled compression of sample materials.
Electrode-density optimization studies	Compare material response at different roll gaps, speeds, and roll-temperature settings.	Mechanical gap adjustment, stepless speed control, and independently controlled rolls enable systematic condition changes.
Advanced materials compression trials	Form and densify sheet-form materials where heated two-roll compression is part of the research procedure.	Precise roll cylindricity and a 200 mm working width provide a defined laboratory rolling interface.

Parameter	Specification
Site-facing identifier	DG14
Power	220V, 4KW
Roll temperature	Approximately 150°C
Two-roll temperature control	Can be independently controlled and adjusted freely
Pressure roll dimensions	Phi150mm x 200mm
Pressure roll surface hardness	HRC62
Pressure roll cylindricity	<= +/-2 micrometers
Effective gap	0-3mm adjustable
Working speed	Stepless speed variation; adjustable line speed 0-6.0 m/min
Maximum working width	200mm

Parameter	Specification
Roll-surface hardening depth	5mm
Maximum pressure	15T
Roll surface finish	Not specified in the reference material