

Small Continuous Laboratory Coating Machine For Precise Wet Film Application

Item Number: TB12



Introduction

Small continuous laboratory coating machine for precise wet film application supports repeatable coating of adhesives paper and films with adjustable speed and a 30 cm working width for reliable laboratory production trials and coating process development across diverse substrates

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Application	Description	Key Benefit
Adhesive formulation development	Apply controlled wet films of adhesive formulations to paper, films, or other compatible substrates for screening and comparison.	Reduces application variation and makes formulation performance easier to compare.
Paper coating trials	Produce laboratory samples for evaluating coating coverage, surface appearance, absorption, and process behavior on paper-based materials.	Provides repeatable samples while using less material than production-scale equipment.
Flexible film coating	Coat polymer films and other thin flexible substrates during material development or process optimization.	Secure clamping and controlled motion help limit substrate movement during application.
Coating process development	Investigate the influence of coating speed and application conditions on wet-film quality and sample consistency.	Stepless speed control supports systematic process experiments.
Paint and surface-finishing research	Prepare controlled coated panels for laboratory evaluation of related paints, finishes, and surface-treatment materials.	Improves the consistency of test panels used for visual and performance assessment.
Pilot production evaluation	Create small representative samples before transferring a formulation or coating method to larger production equipment.	Supports lower-risk scale-up decisions with practical process data.
Comparative quality testing	Prepare multiple samples under consistent coating conditions for comparing raw materials, formulations, or substrate lots.	Improves test validity by minimizing differences caused by manual operation.

Parameter	Specification
Model	TB12
Equipment type	Small continuous laboratory coating machine
Machine dimensions L x W x H	580 x 340 x 180 mm
Coating speed	0-250 cm/min; stepless speed adjustment; custom configuration available according to customer requirements
Coating area	30 cm width x 40 cm length
Coating rod diameter	10 mm
Coating rod length	40 cm
Effective coating width	30 cm
Main power supply	220 V / 50 Hz
Weight	20 kg

Parameter	Specification
Compatible trial materials	Adhesives, paper, films, and other related coating materials
Substrate support	Glass coating bed
Substrate retention	Clips used to secure the substrate on the coating bed
Coating-bed alignment	Adjustable support feet allow the glass bed to be aligned parallel with the coating rod
Alignment verification	Feeler gauge may be used to check the gap during adjustment
Waste handling	Residual coating material is removed into a waste collection tray after coating
Installation location	A location without vibration sources is recommended
Installation foundation	Flat and firm foundation required
Initial installation check	Inspect packaging for damage before opening; inspect the equipment after unpacking and verify contents against the packing list
Electrical start-up requirement	Close the main power switch before energizing the equipment
Glass-bed positioning	Place the glass coating bed between the two swing arms, with the rear of the bed flush with the rear of the coating machine
Operating sequence	Connect power; place and clamp the substrate; return the push rod with the coating knob in the RETURN position; install the coating rod; select coating speed; place coating material in front of the rod; set the coating knob to TEST; remove remaining material after coating stops
Coating-bed cleanliness	Keep the bed clean and free of debris; immediately clean spilled coating material to preserve bed flatness
Substrate preparation	Select the substrate size and secure it with clips before coating
Post-use maintenance	Clean residual material from the waste collection area after every use
Glass-bed support adjustment	Support feet are generally not fixed to the glass bed at shipment; users may bond them in place according to their requirements
No-motion troubleshooting	Check the power connection, main switch, and power indicator; confirm that the speed control is not at the minimum setting; verify that the coating control is set in the correct direction