

Plunger Pump Feeding Device For Adjustable Laboratory Slurry Delivery And Coating Equipment

Item Number: TB06



Introduction

Plunger pump feeding device with adjustable piston speed, anti-drip stopping, interchangeable PP syringes, PTFE tubing, coating machine integration, compact construction, and reliable slurry metering for battery electrode, laboratory coating, and advanced materials research workflows requiring controlled continuous delivery

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Application	Description	Key Benefit
Battery Electrode Coating	Feeds electrode slurry to a laboratory coating machine during lithium-ion battery and other electrochemical cell material research.	Adjustable piston speed helps align slurry delivery with the coating process requirement.
Slurry-Based Materials Research	Transfers formulated slurries during development of functional films, composite layers, and experimental material systems.	Interchangeable 20 ml, 30 ml, and 50 ml syringes support different laboratory batch volumes.
Continuous Laboratory Coating	Supplies material to coating equipment when researchers need a controlled feed over a defined piston travel.	A maximum 100 mm stroke supports extended delivery within the available syringe capacity.
Advanced Materials Development	Supports laboratory processing of research slurries used in advanced materials and surface-film investigations.	Stepper motor control allows the feed condition to be adjusted for different experimental requirements.
Academic Research Facilities	Provides a compact feed unit for university laboratories working on batteries, coatings, ceramics, and related material processes.	The 400 x 200 x 230 mm footprint is practical for shared laboratory benches and flexible workstations.
Clean Slurry Handling Workflows	Used where stopping the feed promptly is important for maintaining a cleaner connection to downstream equipment.	Instantaneous stopping helps reduce dripping and can simplify post-process cleaning and maintenance.

Parameter	Specification
Product Item Number	TB06
Equipment Type	Plunger pump feeding device
Piston Speed Range	0.05-5 mm/s, syringe piston speed
Standard Syringe Capacity	20 ml, 30 ml, and 50 ml
Standard Syringe Material	PP
Tubing Material	PTFE
Tubing Outside Diameter	3.2 mm
Tubing Inside Diameter	1.6 mm
Maximum Stroke	100 mm
Drive Method	Stepper motor
Coating Machine Integration	Can be used in linkage with a coating machine
Overall Dimensions	L400 x W200 x H230 mm

Parameter	Specification
Weight	8 kg
Power Supply	Single-phase 100-240 VAC
Power Frequency	50/60 Hz
Power Rating	120 W