



MAXTRUSION
SMART EXTRUSION SYSTEMS



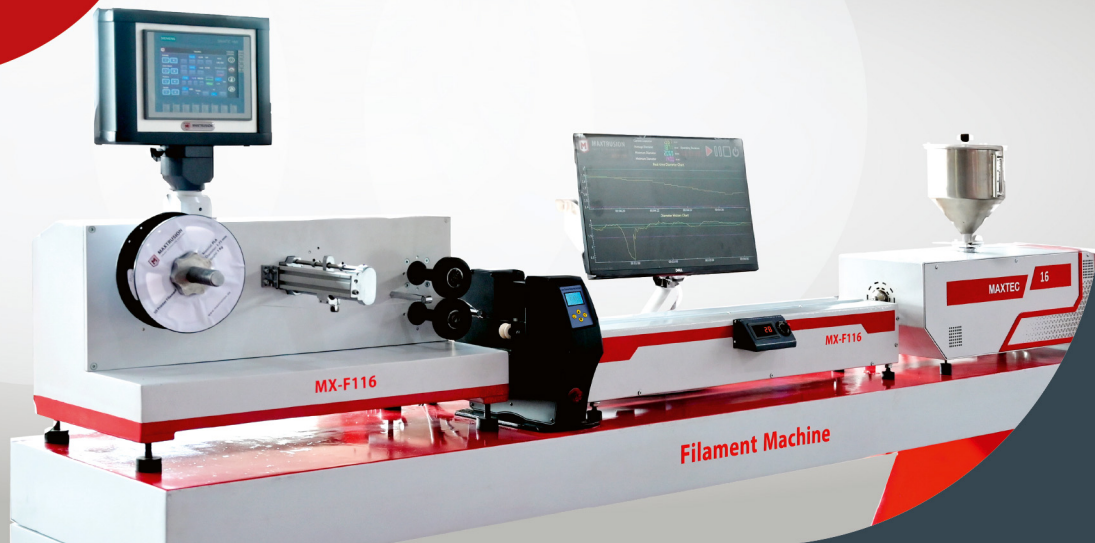
Laboratory Mono-Filament Machine

MX-F116



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Laboratory Mono Filament machine MX-F116



The MX-F116 monofilament extrusion line is engineered for the high-efficiency production of premium-quality synthetic monofilaments from a variety of polymers such as PLA-ABS- PET- PA-PS-HIPS. Designed for precision and durability, this machine ensures consistent diameter control, excellent tensile strength, and optimal molecular orientation of the filaments.



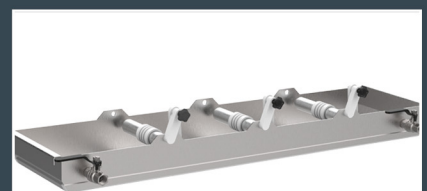
Gravimetric Dosing

The gravimetric dosing system **EXAKTFEED**, together with the extrusion control system enable very precise feeding of material.



Extruder & Nozzle Die Head

Designed for testing and developing of new materials as well as production of standard filaments, with a Die Head Nozzle 1.3: 3 mm.



Water Bath

The water path cools the filament after the extruder process and before reaching the spooler. It includes speed control system for consistent and stable operation.



Thickness Measurement

Contactless laser thickness measurement and control system with advanced software to ensure perfect roundness and optimum dimensional accuracy



Spooler

The spooler allows winding the extruded filament and also defines the filament diameter by adapting the speed of puller wheels.

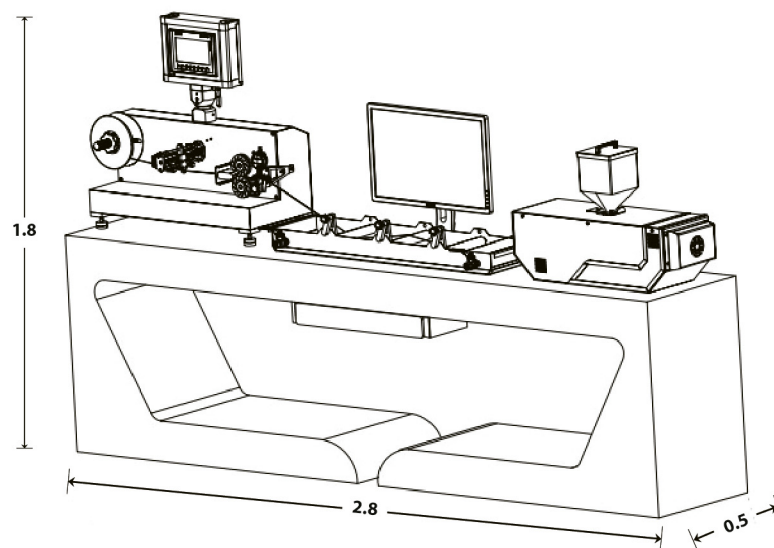


Air Bath

The air bath cools the extruded filament with adjustable airflow, ensuring gradual cooling, dimensional stability, reduced internal stress, and consistent roundness.

Technical Specifications

Model	MX-F116	
Machine Type	Laboratory Mono Filament Machine	
Resin Type	PLA, ABS, HIPS, PS, PETG, PA and PP	
Filament Diameter	1.75 mm	
Extrusion Capacity	4 Kg/hr. (with PLA)	
Extruder	Size	16 mm standard screw
	Design	Universal screw design
Die Head	Nozzle with 1.3:3 mm hole	
Cooling System	Type	Air bath / Water bath
Spooler	Spooler diameter	200 mm
	Spooler width	62 mm
	Motor drive	Stepper motor
	Speed	3 m/min
Total Power	3 kW	
Dimensions	Length	2800 mm
	Width	500 mm
	Height	1800 mm



Dimensions in meter



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