

ACS Material Equipment Series

RheoProTM Micro Injection Molding Machine

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Product Overview

This specialized instrument is designed for polymer experimentation, focusing on the injection molding of dumbbell spline specimens using both common plastics and engineering plastics.



Product Features

- 1. Micro-design: Enables the injection molding of 5~15g of raw materials in a single use.
- 2. Temperature: $50\sim350$ °C, Temperature accuracy: ±0.5 °C.
- 3. Heating zone: 2 zone.
- 4. Max Injection Force: 2T (compared to pneumatic injection molding, this system provides greater and more stable pressure).
- 5. Mold: Customizable, made of imported tool steel with processing accuracy: ± 0.01 mm.
- 6. Treatment: Tempering treatment: HB280~320, mold cavity mirror polishing, vacuum quenching.
- 7. PLC touch screen control: Easy to set operation, capable of storing multiple processing parameters.
- 8. Small size: 360*500*960mm, suitable for use on test benches and ventilation windows.

Product Specifications

Product Name	RheoPro TM Micro Injection Molding Machine
SKU#	ERMIM001
Injection Volume	12ml (Max), can inject a variety of national standard,
	American standard spline mold including 150mm stretch
	spline
Injection Pressure	2T (Max)
Syringe Diameter	Ф15 mm
Syringe Material	S136
Injection Drive Mode	Motor Drive
Motor Power	2 kW
Temperature Control Zone	2 Zones
Maximum Temperature	350°C
Temperature Control Accuracy	±0.5°C
Temperature Control Power	Injection Cylinder Area: 250W
	Template Area: 850 W
Heating Injection Nozzle Rate	≤8 min (From room temperature to 350°C)
Heating Power	Mold are 500W, Injection Cylinder Area 220W
Customization	Injection cylinder can be customized from Φ12-15 mm
	according to the experimental raw materials
Interface	PLC Touch Screen Control with 7 inches screen
Power Supply	220 V, 5 A, 50 HZ
Weight	80kg
Dimensions	360*500*960mm

Application Fields

1. Production of Splines: Capable of producing splines from a wide range of thermoplastic polymer materials, including but not limited to polyimide, PEEK, polyphenylene sulfide, PLA, PA, polycarbonate, etc.

2.	Enhanced Material Options: Ability to incorporate additional materials such as magnetic powder, ceramic powder, graphene, polytetrafluoroethylene powder, metal powder, short glass fiber powder, with the potential to achieve nanometer-level grades.	
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