



ACS Material Equipment Series

Polytevo Series - Single Screw Extruder

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Product Composition

1. Single Screw Extruder



Product Features

The Single Screw Extruder is suitable for laboratory compounding and extrusion of engineering plastics, modified plastics, masterbatches, and other polymer materials. It offers uniform dispersion, effective plasticization, coloring, and filter modification. Ideal for formulation development, quality control, teaching, research, and small-scale production.

Product Specifications

Part	Single Screw Extruder
Model	ACS-7008
SKU#	ERP7SSE1
Screw Diameter	ø20mm
Screw L/D Ratio	28:1
Screw Compression Ratio	2.4:1 (standard)
Screw Speed	0.1-100 rpm

Screw Material	38CrMoAla high-strength nitride alloy steel
Temperature Zones	Zone 1-3: 380°C Zone 4 (Die Head): 380°C
Heating Method	4-zone SSR temperature control + 1 zone temperature monitoring
Cooling System	Ball bearing cooling fan
Transmission System	1:20 planetary gearbox + synchronous belt drive
Main Motor Power	1.5 kW
Total Heating Power	5 kW
Melt Pressure	Accuracy: 0.5% FS Range: 0.1-50 MPa
Main Power Supply / Total Power	AC 220V ±10%, 5-60 Hz, 6500 W
Pelletizing & Driving System Power	AC 220V ±10%, 5-60 Hz, 800 W
Output Capacity	3-5 kg/h
Dimensions (W x D x H)	1050 x 570 x 1390 mm
Weight	~ 300 kg
Auxiliary Unit Dimensions (with tank)	1150 x 460 x 1150 mm (0.8 m water tank, customizable for longer length)

Main Components List

Item	Quantity
Single Screw Extruder	1 Set
Auxiliary Unit (Includes water tank & pelletizing and drying)	1 Set
PLC Control System	1 Unit
Standard Accessories	1 Set

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