



ACS Material Equipment Series

Polytevo Series - Film Blowing Machine

I.	Product Composition
II.	Product Features
III.	Product Specifications

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Revision: 071525

Product Composition

1. Single Screw Extruder
2. Film Blowing Machine



Product Features

Extrusion blown film refers to the process in which plastic particles are continuously melted and extruded under a certain temperature and shear force, inflated by compressed air, cooled by a cooling device, and finally flattened into a double-layer film by a take-up roller.

This machine is mainly used to evaluate the film-blowing feasibility of polymer and biodegradable materials, inspect gel content within the material, and assess the dispersion of colored additives, blended mixtures, and extrudates.

Product Specifications

Part	Film Blowing Machine + Single Screw Extruder
Model	ACS-7008FB
SKU#	ERP7FB01

Part	Single Screw Extruder
Screw Diameter	ø20mm
Screw L/D Ratio	1:28
Screw Compression Ratio	2:3:1
Screw Material	38CrMoAla
Screw Speed	0.1-120 rpm (servo motor)
Transmission System	1:16 Planetary Gearbox with Timing Belt
Production	Approximately 5kg/hr
Temperature	Room Temperature to 380°C
Heating Power	Barrel Heating: Zone 1 / Zone 2 / Zone 3: 3000W (Total Power) Film Blowing: Zone 4 / Zone 5: 2500W (Total Power)
Barrel Cooling Device	Ball Bearing Bladed Cooling Fan
Main Motor	1.5 kW
Electrical Control System	PLC Programmable 10-inch Color Touchscreen with HMI Operating System
Dimensions	2150 x 660 x 2060mm (W x D x H)
Weight	580 kg
Power	Three-phase AC 380V ±10%, 5-60 Hz, 5.5 kW

Part	Film Blowing Machine
Mold Diameter	ø25mm
Blowing Gas	Compressed air 0-0.8 MPa
Cooling Gas	Blower Flow Rate 65 m ³ /h
Take-Up Roller Size	ø80 x L200mm (one rubber roller, one steel roller)
Rewind Roller Size	ø100 x L200mm (rubber roller)
Rewind Air Shaft	ø50 x L200mm
Guide Roller	ø38 x L200mm (stainless steel)
Take-Up and Rewind Speed	Stepless Speed Regulation
Maximum Film Folded Width	80mm
Take-Up Motor	400 W (servo motor)
Rewind Motor	400 W (servo motor)
Blower	370 W
Power	AC 220V ±10%, 5-60 Hz, 1.17 kW

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