TECHNICAL DATA SHEET

Polytevo Series Vertical Transfer Molding Machine

Laboratory vertical transfer molding machine · pneumatic · barrel up to 300°C · mold up to 150°C · about 20 g per shot



Polytevo Series Vertical Transfer Molding Machine (ACS-7003YZ) — representative configuration

The Polytevo Series Vertical Transfer Molding Machine (ACS-7003YZ) is a pneumatic laboratory transfer molding machine for polymer specimen preparation. Image shown for reference; final configuration is confirmed in the quotation.

CONTENTS

01 Product Overview

02 Core Advantages

03 Specifications

04 Applications

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Revision Date **11/13/2026**

SECTION I

Product Overview

Polytevo Series Vertical Transfer Molding Machine (ACS-7003YZ) is a laboratory vertical transfer molding machine with direct pneumatic pressing, a barrel temperature of up to 300℃, a mold temperature of up to 150℃ and a charge of about 20 g per shot, used for polymer specimen preparation.

The ACS-7003YZ is used together with internal mixers, two-roll mills and twin-screw extruders. Material compounded by an internal mixer or two-roll mill can be transfer molded directly into standard specimens on this machine for subsequent mechanical, thermal and appearance evaluation. It prepares dog-bone (tensile), flexural, impact and color plaque specimens.

SECTION II

Core Advantages

— **Vertical direct pneumatic pressing** The pneumatic cylinder drives the transfer piston downward and forces the material through the runner into the preheated mold cavity.

— **Works with compounding equipment** Designed for use with internal mixers, two-roll mills and twin-screw extruders.

— **Split mold with replaceable inserts** By changing the cavity insert, different specimens can be produced on the same machine without replacing the whole mold.

— **Independent barrel and mold temperatures** Barrel temperature (up to 300℃) and mold temperature (up to 150℃) are set independently to match different compounds.

— **Four specimen types** Dog-bone (tensile), flexural, impact and color plaque specimens, selected by the mold.

— **Plunger system** A heated barrel and a transfer piston soften the compound and press it into the mold; the mold is opened after holding pressure and cooling.

SECTION III

Specifications

Technical data — ACS-7003YZ

Specifications	
Parameter	**Specification**
Brand	Polytevo Series by ACS Material
Product Name	Polytevo Series Vertical Transfer Molding Machine
Model	ACS-7003YZ
SKU #	ERP7VTM1
Product type	Laboratory vertical transfer molding machine
Drive	Pneumatic
Heating power	1.5 kW
Voltage	AC 220 V ±10%, 50 Hz (reliable grounding required)
Barrel temperature	up to 300℃ (independently set)
Mold temperature	up to 150℃ (independently set)
Rated pressure	0.6 MPa (air supply pressure)
Charge per shot	≈20 g (depends on compound and specimen)
Application	Transfer molds (dog-bone, flexural, impact, color plaque, etc.); molds selected by specimen type
Overall dimensions (W × D × H)	600 × 450 × 1500 mm

Matched molds — Molds are selected by specimen type

Matched molds	
Mold	**Description**
Flexural / impact bar mold	Split transfer mold with replaceable cavity inserts for flexural and impact bars.
Dog-bone tensile bar mold	Split transfer mold with replaceable cavity inserts for dog-bone tensile bars.
Color plaque mold	Split transfer mold with replaceable cavity inserts for color plaques.

Scope of delivery

— **Standard configuration:** the transfer molding machine; molds are selected by specimen type.

— **Scope of supply** — molds, accessories and scope of supply are confirmed in the quotation.

SECTION IV

Applications

For preparing standard polymer specimens (dog-bone tensile, flexural, impact and color plaque) after compounding, as a supporting unit in plastics, rubber and modified-material laboratories.

Product value: direct pneumatic transfer molding with independently set barrel (up to 300℃) and mold (up to 150℃) temperatures and split molds with replaceable inserts.

Revision Date: 11/13/2026

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