TECHNICAL DATA SHEET

Polytevo Series Vacuum Plate Vulcanizing Press

Laboratory vacuum plate vulcanizing press · 30 T · vacuum 0 to −0.08 MPa · RT to 300℃ · PLC program control



Polytevo Series Vacuum Plate Vulcanizing Press (ACS-7006ZGI) — representative configuration

The Polytevo Series Vacuum Plate Vulcanizing Press (ACS-7006ZGI) is a 30 T PLC program-controlled laboratory press with a vacuum hood and a vacuum pump station. Image shown for reference; final configuration is confirmed in the quotation.

CONTENTS

01 Product Overview

02 Core Advantages

03 Specifications

04 Applications

ACS MATERIAL, LLC

959 E Walnut St., Suite 100

Pasadena, CA 91106, USA

Phone +1 (866) 227-0656

Fax +1 (781) 518-0284

contact@acsmaterial.com

Revision Date **11/13/2026**

SECTION I

Product Overview

Polytevo Series Vacuum Plate Vulcanizing Press (ACS-7006ZGI) is a PLC program-controlled 30 T laboratory vacuum plate vulcanizing press with a fully enclosed vacuum hood, vacuum degree 0 to −0.08 MPa, 5–16.6 MPa pressure control and a temperature range of RT to 300℃.

The ACS-7006ZGI is equipped with a PLC program-control color touch screen and a human-machine interface operating system. The plate pressure, vacuum pressure, temperature, time and number of degassing cycles can be set; the vulcanizing process is displayed and monitored in real time, and the configured molding program runs fully automatically. The raw material is placed in a mold between the electrically heated plates and pressed at the rated temperature to form material for testing.

SECTION II

Core Advantages

— **Vacuum molding chamber** Vacuum hood with a vacuum degree of 0 to −0.08 MPa from a single-stage rotary-vane vacuum pump with a pumping speed of 40 m^3/h (50 Hz).

— **Linear voltage-regulation module** The PLC version regulates the output voltage in linear proportion to the control voltage (current).

— **Hard-chrome-plated plates** Two 300 × 300 mm alloy steel plates, precision ground and hard chrome plated, with a heat-insulating plate resistant to 500℃.

— **Safe visible door cover** The visible door cover cuts off the running command immediately when it is opened.

— **Fully automatic PLC program** Plate pressure, vacuum pressure, temperature, time and number of degassing cycles are set on the PLC color touch screen; the molding program runs automatically.

— **Y-shaped (star) heating structure** The Y-shaped heating structure balances the three-phase electrical load; heating power is maintained in an on/off mode, extending the service life of the heating device and improving precision.

— **Closed-loop hydraulics** A closed-loop hydraulic control system with a Ø150 mm piston gives 30 T capacity and a pressure control range of 5–16.6 MPa.

— **Hot and cold integrated** Single-layer heating with tap-water cooling in a fully enclosed vacuum structure.

SECTION III

Specifications

Technical data — ACS-7006ZGI

Specifications	
Parameter	**Specification**
Brand	Polytevo Series by ACS Material
Product Name	Polytevo Series Vacuum Plate Vulcanizing Press
Model	ACS-7006ZGI
SKU #	ERP7VVP1
Product type	Laboratory vacuum plate vulcanizing press
Capacity	30 T
Pressure control range	5–16.6 MPa
Pressure control precision	±10%
Vacuum degree	0 to −0.08 MPa
Pumping speed (50 Hz)	40 m^3/h
Temperature range	RT to 300℃
Temperature control precision	±2℃
Control mode	PLC control; pressure, temperature and time can all be set on the touch panel
Working stroke space	150 mm
Cooling method	Tap-water cooling
Plate size	300 × 300 mm
Plate material	Alloy steel (hard-chrome plated surface, precision ground)
Heat-insulating plate	Imported high-quality heat-insulating plate, heat resistant to 500℃
Piston diameter	Ø150 mm

Technical data — ACS-7006ZGI (continued)

Specifications	
Parameter	**Specification**
Number of degassing cycles	0–999 cycles, settable
Hydraulic system	Closed-loop control system
Hydraulic medium	L-HM 46 anti-wear hydraulic oil, 60 L (supplied by the customer)
Safety protection	Safe visible door cover; opening it immediately cuts off the running command
Machine dimensions	1180 × 710 × 1570 mm
Power supply	Three-phase five-wire (3P+N+E), AC 380 V ±10%, 50 Hz
Heating power	Single-layer heating 13 kW
Weight	Main machine 970 kg; vacuum pump station 160 kg

Main components — Vacuum hood and pump station

Main components	
Component	**Description**
Vacuum hood	Vacuum hood with observation window, safety door and safety door handle; the visible door cover cuts off the running command when opened.
Vacuum pump station	Single-stage rotary-vane vacuum pump with pumping speed 40 m^3/h (50 Hz), vacuum degree 0 to −0.08 MPa; pump station weight 160 kg.

Scope of delivery

— **Standard configuration:** main frame, press plates (2), relays, temperature controller, PLC system, touch control screen, hydraulic cylinder, pump station assembly, safety protection door and a single-stage rotary-vane vacuum pump (1 set each unless noted).

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

SECTION IV

Applications

For detecting gel (fisheyes), black spots and stains in raw material; sheeting, color matching, mixing and sample preparation; and physical-property testing and material research and development.

Product value: a 30 T press with a vacuum hood (0 to −0.08 MPa), RT to 300℃, PLC-set degassing cycles and a fully automatic molding program.

Revision Date: 11/13/2026

DISCLAIMER

Polytevo Series is a product line of ACS Material, LLC. ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties, either express or implied, regarding the suitability of the equipment for any application or the accuracy of the information contained within this document. Specifications are typical and may vary; confirm product details and application suitability at the time of quotation. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.