TECHNICAL DATA SHEET

Polytevo Series High Speed Mixer

Laboratory high-speed mixer · 9 L · 1500 r/min · RT to 120°C · 304 stainless steel contact parts



Polytevo Series High Speed Mixer (ACS-1001) — representative configuration

The Polytevo Series High Speed Mixer (ACS-1001) is a laboratory high-speed mixer with a 9 L chamber and one stirring paddle. 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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SECTION I

Product Overview

Polytevo Series High Speed Mixer (ACS-1001) is a laboratory high-speed mixer with a 9 L mixing chamber, a 1500 r/min stepless-speed stirring paddle and a temperature range of RT to 120℃, used for mixing and coloring PVC resin and for coloring and drying PE and PP pellets.

In the ACS-1001, the stirring paddle on the main shaft inside the bin rotates clockwise and drives the material along the inner wall of the bin and into the material cone, where it tumbles with the up-and-down circulation of the cone. During high-speed movement friction generates heat, and heating or cooling can be added as required to improve the absorption of plasticizers by the resin.

SECTION II

Core Advantages

— **High-speed stirring** One stirring paddle with stepless speed control up to 1500 r/min; the paddle rotates clockwise and drives the material along the inner wall and into the material cone.

— **Friction heat with assisted heating or cooling** Friction heat is generated during high-speed movement; heating or cooling can be used as required, within RT to 120℃.

— **Stainless steel contact parts** All mixture contact parts are 304 stainless steel.

— **9 L mixing chamber** Capacity 9 L; the recommended optimal filling volume is 30–60%.

— **Selectable heating and cooling** Heating by electric heating or a mold temperature controller; cooling by tap water or a water chiller; H-type M16×1.5 quick connectors for the medium interface.

— **Servo drive** 2 kW servo motor with a rated torque of 11.5 N·m.

SECTION III

Specifications

Technical data — ACS-1001

Specifications	
Parameter	**Specification**
Brand	Polytevo Series by ACS Material
Product Name	Polytevo Series High Speed Mixer
Model	ACS-1001
SKU #	ERP7HSM1
Product type	Laboratory high-speed mixer
Capacity	9 L (recommended optimal filling volume: 30–60%)
Temperature range	RT to 120℃
Heating mode	Electric heating or mold temperature controller (selectable); medium interface: H-type M16×1.5 quick connector
Cooling mode	Tap water or water chiller; medium interface: H-type M16×1.5 quick connector
Number of stirring paddles	1
Stirring speed	1500 r/min (stepless speed control)
Drive motor	2 kW servo motor
Mixture contact parts	304 stainless steel
Rated torque	11.5 N·m
Power supply (full load power)	AC 380 V ±10%, 50 Hz; 2 kW; three-phase four-wire (L1+L2+L3+PE), no neutral wire
Overall dimensions (W × D × H)	520 × 580 × 1120 mm
Weight	Approx. 128 kg

Scope of delivery

— **Standard configuration:** the 9 L high-speed mixer main unit.

— **Scope of supply** — the heating and cooling configuration, any external temperature controller or chiller, and final accessories are confirmed in the quotation.

SECTION IV

Applications

For mixing and coloring PVC resin; coloring and drying PE and PP pellets; and mixing hygroscopic resins such as ABS and polycarbonate before molding and processing.

Product value: a compact 9 L high-speed mixer with a 1500 r/min stepless-speed paddle, RT to 120°C and selectable heating and cooling.

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