

SM PBM-80 Paper Bowl Forming Machine



Brief Description

SM PBM-80 paper bowl forming machine, a newly developed from turn-plates old type bowl machine, achieves a manufacturing speed of 80 pcs/min. This piece of paper converting equipment provides a multi-station design and is able to make single and double PE coated beverage bowls, ice cream bowls. In addition to that, this integrated automatic paper container forming machine combines all these processing procedures together: paper feeding, sealing, bottom cutting, lubricating, heating, knurling, curling and collecting.







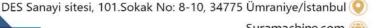




Machine Specifications

- 1. Speed: 80 cups/min
- 2. HMI touch screen & PLC, More intelligent operation control, Easy to operate/, PLC
- 3. Use well-known brand **inverter** of China, Stepless speed regulation
- 4. Use Servo motor driven paper cup bottom feeding, more precise, Save paper
- 5. About **11 sensors** on 1 machine to monitor the whole cup making process
- 6. Silicone sucker for paper fan sucking
- 7. Linear slider for paper fan feeding
- 8. Single rotating turntable, Fewer working stations, More compact and efficient
- 9. Servo-driven direct bottom punching, Accurate punching and save paper
- 10. 2 sets Hot air heater for bottom inward folding/2
- 11. Bottom knurling with aluminum alloy heater for single PE coated paper bowl /Bottom knurling with water cooling ring for double PE coated paper bowl (water cooling ring for free, easy to replace) Accurately processed cup top curling system, Tight, smooth and beautiful bowl top rimTop curling, bottom forming system adopts integrated lifting design, cam disc drive, consistent action
- 12. Air blower, acrylic pipe with collection table, Automatic counting, automatic stacking, saving time and labor
- 13. Main motor with Gear reducer
- 14. the system adopts intermittent open mark control, sheaves with indexing turntable, helical gears, high-quality bearings and shafts, which are easy to maintain and stable, much better than chain-driven gearboxes.
- 15. Automatic **continuous shower type** lubrication system
- 16. Automatic paper bowl collector













Machine's Parts



































Samples





Salad Bowl



Soup Bowl















Main Technical Specification

	20-35oz (150-1500ml) (mold exchangeable)
Paper Cup Specification	Top: 50-150mm
	Height: 50-110 mm
	Bottom: 35-125mm
Paper Specification	150-350 GSM single/double PE coated paper
Production Capacity	70-80 pcs/min
Power Source	220V/380V 50HZ 3Phases
Average Power	8.5KW
Air Supply Requirement	Air pressure:0.4Mpa Air out-put:0.4cbm/min
Total Weight	3000KG
Package Size	(L*W*H): 2600*1300*1600 mm

Machine Configuration

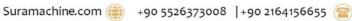
Model		SM PBM-70
	Configuration	Brand/Origin
Electrical components	Switching power	MEAN WELL/Delta, Taiwan
	Main and branch breaker	Schneider/Siemens, France/Germany
	Thermal magnetic type motor protection circuit breaker	Schneider/Siemens, France/Germany
	A.C. contactor	Schneider/Siemens, France/Germany
	Three phase high voltage solid state silicon controlled module	Fotek, Taiwan











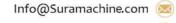


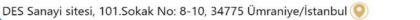
Electrical components

Solid state relay	Fotek, Taiwan	
For temperature control		
Configuration	Brand/Origin	
Miniature intermediate relay	Schneider/Siemens, France/Germany	
Miniature electromagnetic relay	Schneider/Siemens, France/Germany	
PLC I/O digital volume amplifier board	Delta,Taiwan	
PLC programmable controller	Delta,Taiwan	
Temperature control module	Delta,Taiwan	
Touch screen	Delta,Taiwan	
Servo motor for bottom paper feeding	Delta,Taiwan	
Servo driver for bottom paper feeding	Delta,Taiwan	
Frequency converter/Inverter	Delta,Taiwan	
Paper fan lacking monitoring sensor	Panasonic, Japan	
Bowl body horizontal displacement monitoring sensor	Panasonic, Japan	
Bowl rotation displacement monitoring sensor	Panasonic, Japan	
Bowl bottom delivery failure monitoring sensor	Panasonic, Japan	
Bottom paper roll shortage monitoring sensor	Panasonic, Japan	
Bowl drop-down and missing monitoring sensor	Fotek, Taiwan	
Ultrasonic generator	KEJIAN, China	
Ultrasonic welding head	KEJIAN, China	
Bottom heater	2 pcs hot air gun	
Rotary encoder	Omron, Japan	
Main motor	,	
Electromagnetic braking	GPG gear motor, China	
three-phase asynchronous motor, China		
Gear reducer		
Bottom paper roll unwinding motor	GPG, China	
Top lip curling motor	GPG, China	









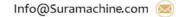


Electrical components	Configuration	Brand/Origin
Electrical components	Oil pump/motor	YISHIDA, China
	Silicone oil coating device	China
	Vacuum sucker manipulator	China
Pneumatic components	Pipe quick coupling	Airtac, Taiwan
	Cylinder	ZhengMao, China
	The Electromagnetic Valve / Mechanical valve	Airtac, Taiwan
	Machine frame	China Masteel Group Standard angle iron
	Bearing	FSB, China
	Lubrication system	Continuous shower type
Machine transmission	High precision open type intermittent indexing cam/ Gear/Chain	Heat treatment 38R material CNC machining center Gear
	Linear shaft	GCr15
	Transmission shaft	45#
	Turntable	Aluminum Alloy ZL104











Communication Details





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