



PM-SERIES

TWO-STAGE INJECTION PET PREFORM INJECTION MOLDING MACHINE



JONWAI

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JON WAI PRODUCTION SYSTEMS FOR PET PREFORMS

JON WAI, has decades of experience in PET and production line planning for many years. We offer complete solution for production of PET preforms, based on extensive engineering knowledge in PM series.

Whether your company is looking for high output system to produce standard preforms or a system which offers the flexibility to produce brand-specific preforms, JON WAI has the suitable system for your requirement.

Preform system can accommodate from 8 up to 48 cavity molds on any standard preforms. As well as the injection molding machine, the package includes mold, automation handling system, completed with integrated after cooling station, granule drying system, recirculating air condition for the mold, and refrigeration system.



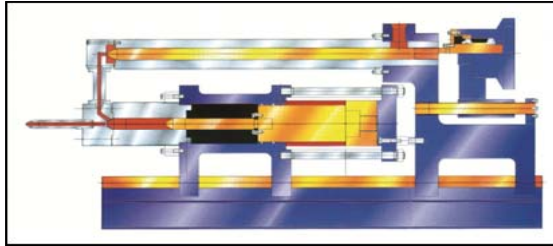
Preform System Characteristics

• Injection Unit

Two-stage injection unit consists of one screw for pre-plasticizing and one plunger for injection.

LOW A.A levels and high torque force with outstanding melt quality are ensured by the injection unit of L/D ratio 1:25 performance screw.

Independent injection cylinder provides wider range of shot size. Without the use of check-ring, it can avoid unstable injection, and increase motion precision.



• Preform System Advantages

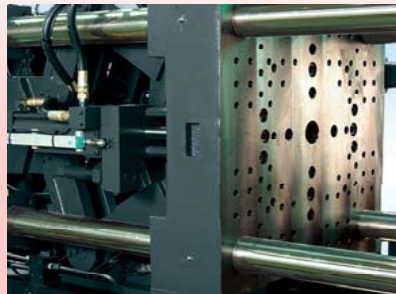
- Low acetaldehyde (A.A) levels for best perform quality.
- Fast and precise for high productivity.
- Compact to save space for your down stream equipment.
- Custom fit to meet your production needs.



• Clamping Unit

Enlarged ejector system and longer ejector stroke is especially designed to match the ejector requirement of PET preform.

The external five points double toggle system and strong platens design can distribute the clamping force evenly to the mold. Sensitive mold protection device well-prevents damage to molding surface components.



• Quality mold manufacturer

Simultaneous valve gate for high speed open and close motion.

Waste reduced for cost saving.

Low Acetaldehyde (A.A) level.

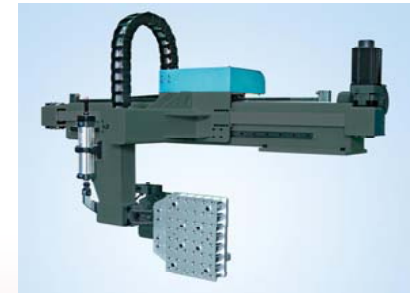
All inserts are interchangeable.

Individually temperature controlled nozzles.



• Quality automation supplier

JON WAI provides high precision preform system achieves high productivity by shortening cycle time.



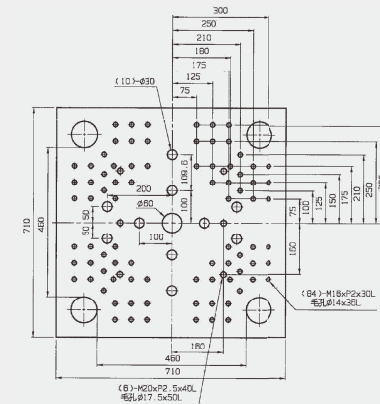
• Turnkey Production System

- Resin dryer
- Dehumidifier
- Chiller
- Mold Sweat Protector
- Back end automation

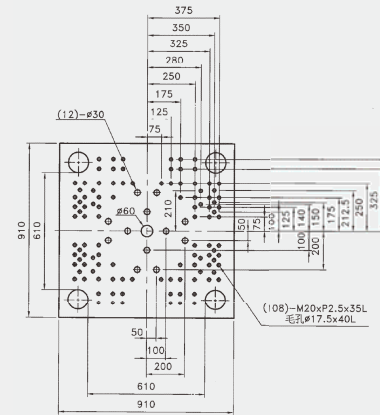


MODELS		JW-165PM		JW-275PM		JW-385PM	
INJECTION UNIT							
SCREW DIAMETER	mm	50	70	70	85	85	100
PLUNGER DIAMETER	mm	65	80	80	100	100	120
INJECTION CAPACITY	cm ³	810	1500	1500	2512	2512	4523
SHOT SIZE(PET)	gr	895	1657	1657	2775	2775	4997
PLASTICIZING CAPACITY	kg/hr	100	200	200	300	300	450
INJECTION RATE	cm ³ /sec	291	309	431	491	491	617
INJECTION PRESSURE(MAX)	kg/cm ²	1076	1012	1012	1059	1059	1058
SCREW SPEED RANGE	rpm	167	93	93	71	71	62
SCREW TORQUE	kg-m	178	490	490	713	713	1002
INJECTION STROKE	mm	245	300	300	320	320	400
NOZZLE CONTACT FORCE	tons	4.6	8	8	8	8	11.4
CLAMPING UNIT							
CLAMPING FORCE	ton	165		275		385	
OPENING FORCE	ton	16.5		27.5		38.5	
CLAMP STROKE (MAX)	mm	410		540		630	
MOLD HEIGHT (MIN-MAX)	mm	230-620		220-680		280-760	
OPEN DAYLIGHT	mm	560-1030		760-1220		910-1390	
PLATEN SIZE (H*V)	mm	710 × 710		910 × 910		1030 × 1030	
DISTANCE BETWEEN TIE-RODS	mm	460 × 460		610 × 610		710 × 710	
HYDRAULIC EJECTOR FORCE	ton	8	16	32.7	32.7	42.4	42.4
HYDRAULIC EJECTOR STROKE	mm	180		250		250	
HYDRAULICS							
PUMP CAPACITY	l/min	262	329	410	446	446	560
SYSTEM PRESSURE	kg/cm ²	140	140	140	140	140	140
OIL RESERVOIR CAPACITY	us.gal	110	110	166	166	251	251
ELECTRICS							
POWER SUPPLY (STANDARD)	volt	220	220	220	220	220	220
MOTOR RATED	HP	60	70	90	100	100	120
NUMBER OF HEAT CONTROL ZONES	set	9	9	9	9	9	9
HEATING WATTAGE	kw	20	29	30.9	46.5	46.5	78.5
GENERAL							
WATER REQUIREMENTS (MAX)	gpm	21	26	35	35	35	35
MACHINE DIMENSIONS (L*W*H)	m	7.1×1.5×2.3	7.2×1.5×2.3	7.9×2×2.5	8.4×2×2.5	9.2×2.1×2.6	9.7×2.1×2.6
MACHINE WEIGHT	kg	8500	9000	13000	14000	21500	22500

● JW-165PM



● JW-275PM



● JW-385PM

