PARKER

Plastic Machinery

Reliability and Quality...

only PARKER.

Series PK-IB / IBT

Injection Blow Molding Machine

(Application: PE, PP, PS, PC, PVC, PETG, PMMA, PET)

IT'S VERY WELL MADE IN TAIWAN

TÜV CERT DIN EN ISO 9001

PARKER PLASTIC MACHINERY CO., LTD.

PARKER Offers Advanced Features.

For more accurate and efficient operation - suitable for all kinds of materials.

Features:

1. The machine provides fast molding performance without scrap or connecting lines on bottle bottom or side.
2. Maximum uniformity of bottle weight, thickness and volume.
3. Bottle body, neck and mouth can be varied to meet specific requirements.
4. Extremely smooth and elegant bottle surface is ideal for high-quality and high-price packaging.
5. This high production machine is capable of producing bottles in multiple cavities at one time.
6. Suitable for various materials, such as PE, PP, PS, PC, PETG, PMMA, PET etc., for producing various types of bottles.
7. Multiple-stage injection pressure and speed are accurately controlled by the computer.
8. Easy and efficient mold changing.

Series PK-IB

Injection Blow Molding Machine (Application: PE, PP, PS, PC, PVC, PMMA)

Injection Blow Molding Machine from PARKER.

Second Prize Award
for Excellence, Design & Innovation
Plastics & Rubber Machinery 2004

(To view actual operation of the machine)

Series PK-IBT

Injection Blow Molding Machine (Application: PETG, PET)

INJECTION BLOW MOLDING PRODUCTION PROCESS

- The machine employs an advanced injection blow molding principle, in multiple cavities, dramatically increasing productivity. Motion sequences consist of three steps: **material injection, blow molding and product ejection**.
- **The first stage** involves the material being fed through a screw and injected into the cavities.
- **The second stage** is 120° rotation and blow molding to the desired shape.
- **The third stage** is a final indexing of 120° to the ejection station, where the products are quickly ejected from the core rod.
- The entire process is very quickly performed, providing extremely high productivity and superior bottle quality.

EASY-TO-OPERATE SCREEN

- The machine employs a high-performance PLC controller, giving high sensitivity motion control, with a touch sensitive screen for user-friendly human-machine interface control.

Mold Temperature Controller

APPLICATION:
Automatically controls mold's temperature to give perfect molding with every shot.

Specifications

TEMPRO basic	PK-WB90	PK-WB140
Microprocessor controller, self-optimizing	●	●
Maximum temperature monitoring	●	●
Sensor break monitoring	●	●
Automatic filling with leakage monitoring and level control	●	●
Automatic pump rotation direction detection	—	—
Dry contact for alarm output	●	●
Connectors for external sensors	○	○
Leakstop function	●	●
Air purging for mold changes	●	●
Reinforced pump	○	○
Manual filling	●	●
Pressure gauge / flow indication	—	—
Boost pump	—	—
Serial interface (RS232, RS485, 20 mA, EUROMAP 17)	—	—
Operating hour counter	●	●
Horn	●	●

Technical data	PK-WB90	PK-WB140
Heating capacity	6 / 9 kW	6 / 9 kW
Pump capacity standard	0.5kW, Max.3.5bar, Max.40 l/min	0.5kW, Max.3.5bar, Max.30 l/min
Pump capacity enhanced	0.75kW, Max.5.5bar, Max.40 l/min	0.75kW, Max.6bar, Max.60 l/min
Cooling water connect.	G 1/4"	G 3/8"
Mold connection	G 3/4"	G 3/4"
Power supply	3 x 400 V / 50 Hz + MP	

● : Standard equipment, ○ : Optional equipment, — : No supply for this model

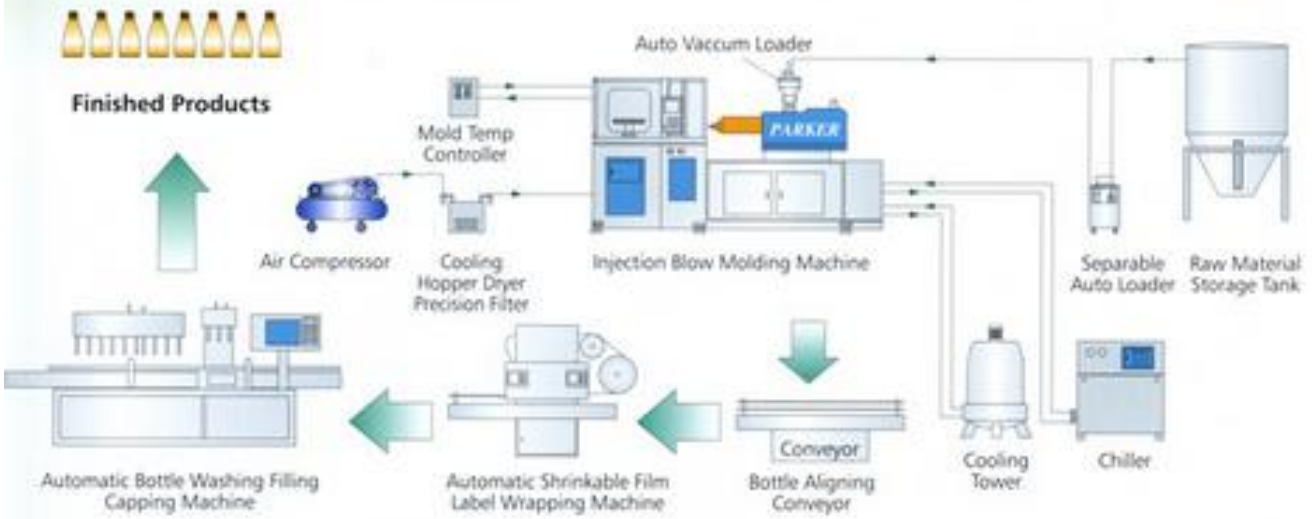
PK-IB Sieries Specifications

PK-IB for PE, PP, PS, PC, PVC, PMMA material

MODEL	UNIT	PK-30IB			PK-55IB		
INJECTION UNIT							
Screw Diameter	mm	Ø32	Ø40	Ø45	Ø50	Ø55	Ø60
L / D	L / D	22 : 1	22 : 1	22 : 1	22 : 1	22 : 1	22 : 1
Screw - speed Range	RPM	0 - 120	0 - 120	0 - 120	0 - 120	0 - 120	0 - 120
Screw Stroke	mm	150	150	200	250	250	250
Max. Shot - weight	g	65	100	170	265	320	380
MOLD CLAMPING UNIT (INJECTION UNIT)							
Injection Mold Opening Stroke	mm	115			135		
Injection Mold Clamping Force	ton	30			55		
Trigger Bar Length	mm	335			735		
Casting Area	kg / cm²	121 cm²@246 kg / cm²			227 cm²@246 kg / cm²		
Max Swing Radius	mm	410			570		
MOLD CLAMPING UNIT (BLOWING UNIT)							
Blow Mold Opening Stroke	mm	115			135		
Blow Mold Clamping Force	ton	5			10		
POWER SYSTEM							
Pump Motor	HP	25			40		
Pump Pressure	kg / cm²	130			130		
Heating Capacity	kw	11			14		
Heating Zone	point	6			8		
Air Requirement (Approx .)	m / hr	30			30		
Air Pressure	bar	10			10		
Oil Tank Capacity	L	350			550		
Total Power Consumption	kw	30			44		
Machine Dimension	M	3.2 x 2.0 x 2.2			4.7 x 2.1 x 2.5		
Machine Weight	ton	5			10		
Packing Size	M	3.5 x 2.2 x 2.2			4.9 x 2.2 x 2.2		
Machine Meas't	M³	20			34		

* All specifications and designs are subject to change without notice.

Turnkey Injection Blow Molding Solution



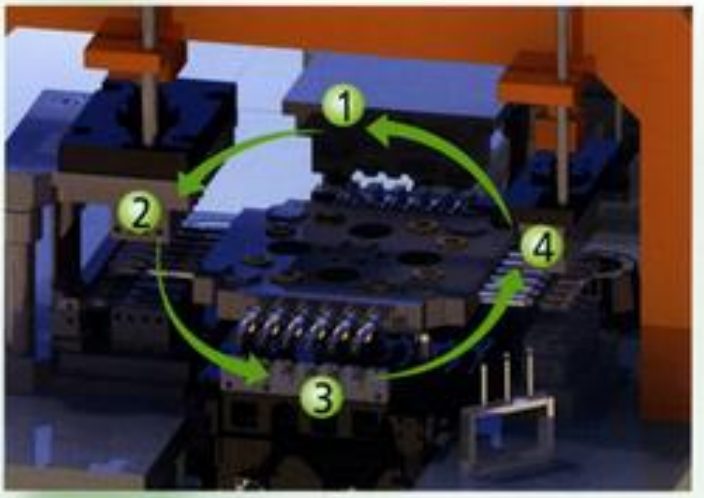
Dedicated to PET Materials, the PARKER PK-IBT Series Provides State-of the-art Efficiency for Inceased Profitability.

Features:

1. The machine provides fast molding performance without scrap or parting lines on bottle bottom or side.
2. Maximum uniformity of bottle weight, thickness and capacity.
3. Bottle body, neck and mouth can be varied to meet specific requirements.
4. Extremely smooth and elegant bottle surface is ideal for high-quality and high-price packaging.
5. Suitable for small-sized PET bottle mass production.
6. Precise and uniform injection volume.
7. Constant temperature on preforms and molds.
8. Precision hydraulic valves are employed for minimum noise.

OPTIONS DEVICE:

- **Power saving System for Extruder / Open - Clamping mold / Plate Rotating:** Available to equip with a Servo motor with gear pump. This provides a starting current buffering function for saving power consumption. Ideal for customers with high electricity costs and stable voltage areas.



INJECTION BLOW MOLDING PRODUCTION PROCESS

- The machine employs an advanced injection blow molding principle, in multiple cavities, dramatically increasing productivity. Motion sequences consist of three steps:**material injection, blow molding, product ejection & performs mold cooling**.
- **The first stage** involves the material being fed through a screw and injected into the cavities.
- **The second stage** is 120° rotation and blow molding to the desired shape.
- **The third stage** is a final indexing of 120° to the ejection station, where the products are quickly ejected from the core rod.
- **The fourth stage** performs mold cooling. The rapid cooling on the mold core may reduce the production cycle time. It is suitable for high transparent material's production.
- The entire process is very quickly performed, providing extremely high productivity and superior bottle quality.

PK-IBT Sieries Specifications

PK-IBT for PETG, PET material

MODEL	UNIT	PK-30IBT			PK-55IBT		
INJECTION UNIT							
Screw Diameter	mm	Ø32	Ø40	Ø45	Ø50	Ø55	Ø60
L / D	L / D	22 : 1	22 : 1	22 : 1	24 : 1	24 : 1	24 : 1
Screw - speed Range	RPM	0 - 120	0 - 120	0 - 120	0 - 120	0 - 120	0 - 120
Screw Stroke	mm	150	150	200	250	250	250
Max. Shot - weight	g	65	100	170	265	320	380
Plasticizing Capacity	g/s	15	25	30	47	61	53
MOLD CLAMPING UNIT (INJECTION UNIT)							
Injection Mold Opening Stroke	mm	115			135		
Injection Mold Clamping Force	ton	30			55		
Trigger Bar Length	mm	335			735		
Casting Area	kg / cm²	121cm²@246 kg / cm²			227 cm²@246 kg / cm²		
Max Swing Radius	mm	410			570		
MOLD CLAMPING UNIT (BLOWING UNIT)							
Blow Mold Opening Stroke	mm	115			135		
Blow Mold Clamping Force	ton	5			10		
POWER SYSTEM							
Pump Motor	HP	25			40		
Pump Pressure	kg / cm²	130			130		
Heating Capacity	kw	8			14		
Heating Zone	point	4			8		
Air Requirement (Approx .)	m / hr	30			30		
Air Pressure	bar	25			25		
Oil Tank Capacity	L	300			550		
Total Power Consumption	kw	27			44		
Machine Dimension	M	3.7 x 2.3 x 2.8			4.7 x 2.1 x 2.5		
Machine Weight	ton	5			10		
Packing Size	M	4 x 2.5 x 3.1			4.9 x 2.2 x 2.2		
Machine Meas't	M³	11.5			34		

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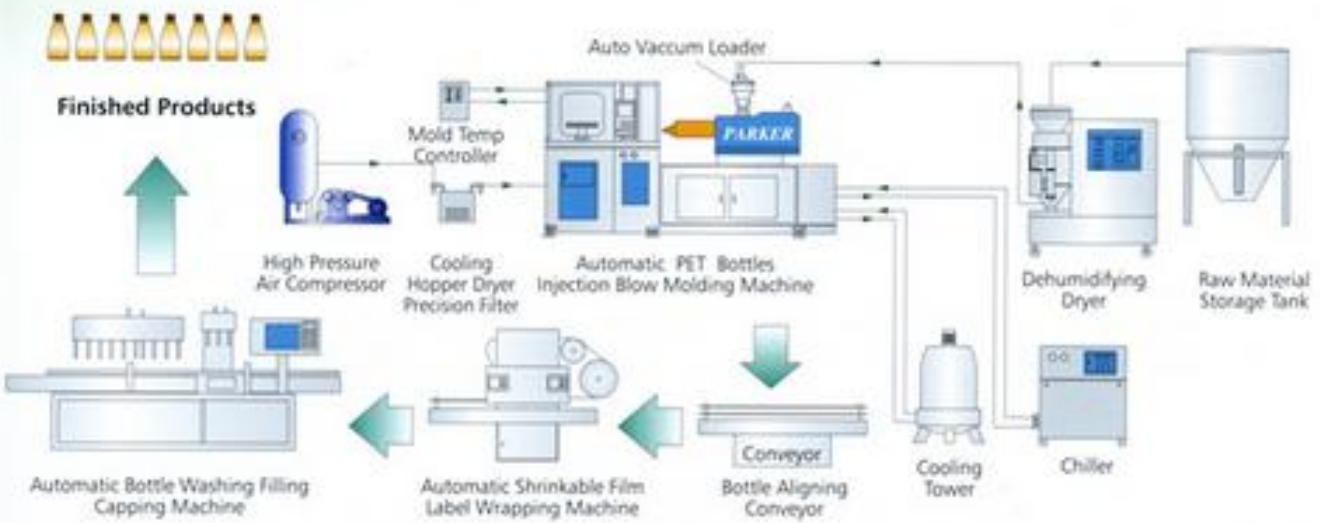
Turnkey Injection Blow Molding Solution



Machine Dimensions

UNIT: mm

MOLD \ SIZE	L	W	H
PK-301B/IBT	3200	2000	2200
PK-551B/IBT	4700	2100	2500

Application: PE, PP, PS, PC, PVC, PMMA.

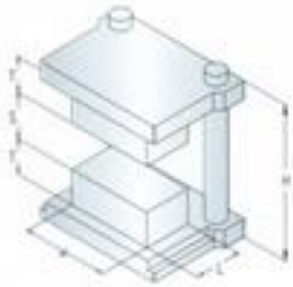
■ Product Dimensions

	Approx. Volume (ml)	Body Diameter (D) (mm)	Min.Neck Diameter (T) (mm)	Max. Height (H) (mm)	Weight (g)	Center Distance (mm)	Max. Cavitation (pc)
PK-301B	5~30	≦30	≧6	75	5	40	8
	30~50	≦35	≧10	100	7	45	6
	50~75	≦40	≧12	120	15	50	6
	75~120	≦50	≧15	120	20	60	4
	120~350	≦65	≧20	120	31	75	4
	350~500	≦75	≧25	120	40	90	3
PK-551B	30~50	≦30	≧10	90	7	45	10
	50~120	≦45	≧15	120	22	60	8
	120~250	≦60	≧20	120	25	75	6
	250~600	≦75	≧25	170	37	90	4
	600~850	≦95	≧32	180	47	110	3
	850~1000	≦120	≧24	200	75	145	2

Mold Thickness

UNIT: mm

MOLD \ SIZE	L MAX.	W MAX.	S	T	H
PK-301B/IBT	150	320	115	75	385
PK-551B/IBT	220	610	135	75	405



Application: PETG, PET.

■ Product Dimensions

	Approx. Volume (ml)	Body Diameter (D) (mm)	Min.Neck Diameter (T) (mm)	Max. Height (H) (mm)	Weight (g)	Center Distance (mm)	Max. Cavitation (pc)
PK-301BT	5~10	≦20	≧8	60	8	40	8
	10~50	≦30	≧10	90	10	45	6
	50~75	≦40	≧20	100	20	50	6
	75~120	≦45	≧30	110	25	60	4
PK-551BT	50~100	≦45	≧23	90	22	60	8
	100~120			100	28		8
	120~250	≦60	≧30	120	35	75	6
	250~350			150	40		4
	350~500	≦75	≧35	170	50	90	4

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