



Design Green



Gallon Bottle

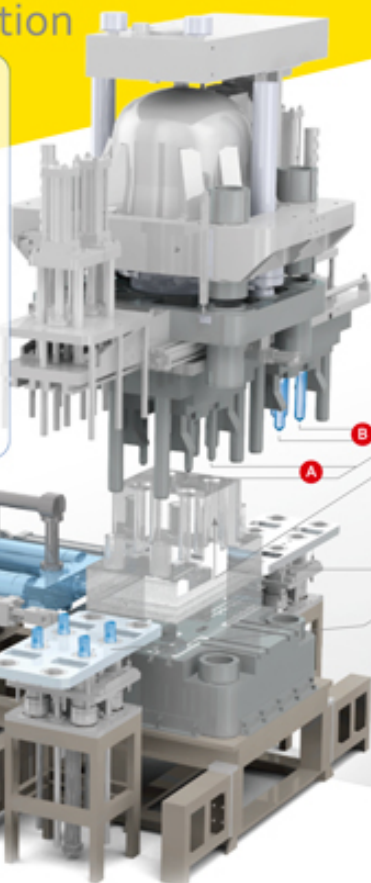
PET Preform Injection Molding Machine
Turn-Key Solution

KPET-3200

Vertical Clamping With Double Injection



One extruder screw work with two injection plungers, the PET resin plasticizing, charging never stop by injection/holding process, compare to In-line screw, save 80% energy in charging.



Individual setting of injection

With A/B core molds, can produce two different preform (inner dia, and neck design) at the same time.

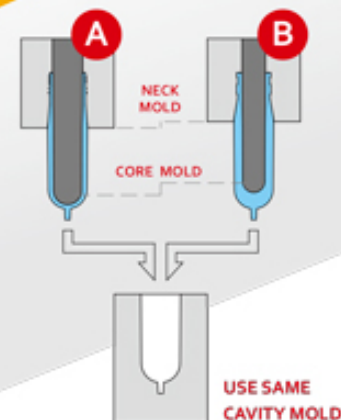
Vertical Clamping and Upward Mold Flow

The melt material injected from the bottom upward, with balance mold flow and even air vent, preform stress low, no welding line/bubble.

Energy Saving
76%

Double Shuttle Core Mold with Post Mold Cooling System

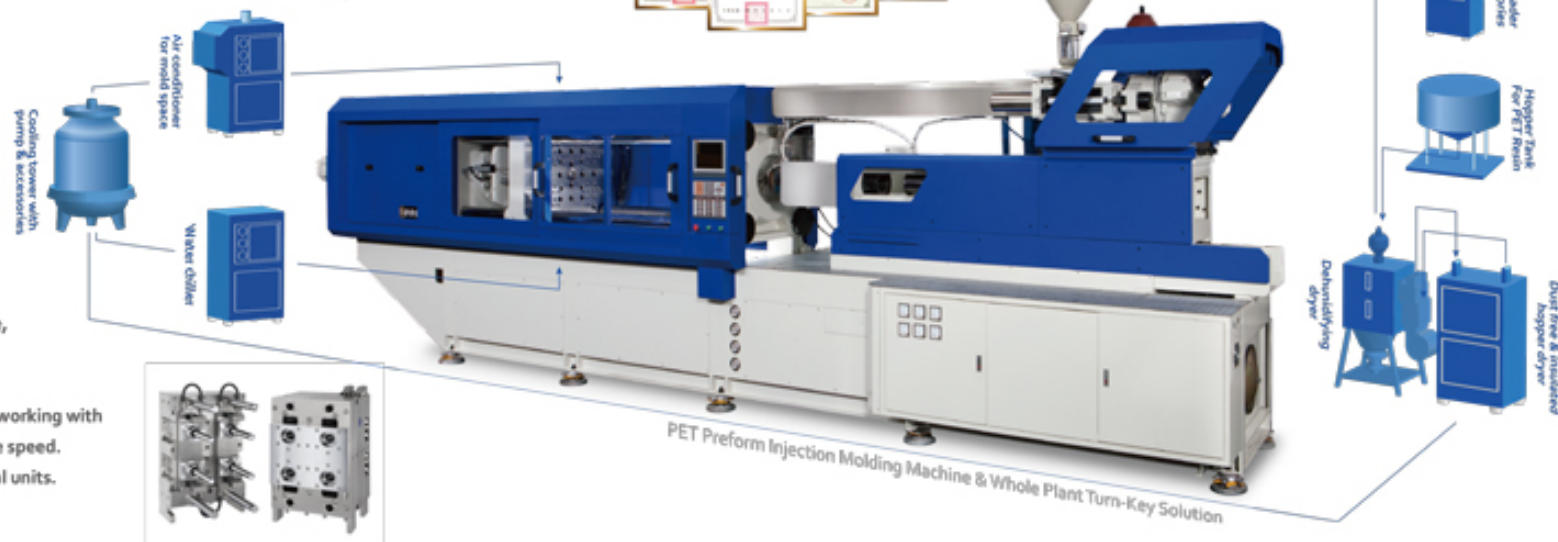
Double core molds work with one cavity half, save 80% holding/cooling time while molding. Efficient post mold cooling by core mold, preforms keep cooled for one more cycle, ensure the quality and straightness.





KPET-1600

Horizontal Clamping +V-line Injection

- Select from 4 or 8 cavities mold specifications.
- The V-line 2 stage material feed system raises the repeatability rate, lower the cycle time, lower injection pressure, smaller screw diameter and low AA level.
- Direct hydraulic clamping, protect the mold extend mold life.
- Temperature control via TSR raises temperature accuracy and, working with the accumulator, increases injection speed and mold open/close speed.
- 50% energy saving as comparable In-line injection commercial units.
- The bottle blowing defect rate is kept to a minuscule 0.5%.



5 Gallon PET Preform Injection Molding Machines & Whole Plant Turn-Key Solution

<p>Cavity Number & Moldflow Testing</p> 	<p>Horizontal Injection</p>  <p>For 1~4 cavity</p>		<p>Vertical Injection</p>  <p>For 8+8 cavity</p>
Model	Others	KPET-1600	KPET-3200
KPI	1 st single cavity	2 nd 4 cavity mold	3 rd 8+8 cavity mold
Energy saving (per Preform)	Motor 1.13 /kwh Heater 0.17 /kwh	Motor 0.46 /kwh Heater 0.15 /kwh	Motor 0.065 /kwh Heater 0.058 /kwh
Cycle time	100 sec / 1 pc	130 sec / 4 pcs	90 sec / 8 pcs
Production	Single cavity, 720 pcs / day	4 cavity, 2400 pcs / day	8+8 cavity, 7200 pcs / day
Power consumption (per kWh)	1.3 kWh / pcs	0.61 kWh / pcs	0.145 kWh / pcs
Saving Energy for	<p>53% ϕ \rightarrow 76% ϕ \rightarrow</p>		

Comparison-Clear

Shorter
Clear
Low Stress
High Yield Rate
High Clarity




KING'S

Longer
Foggy
High Stress
Low Yield Rate
Low Clarity

OTHERS

Comparison-Blowing


Shorter




More Distant

KING'S

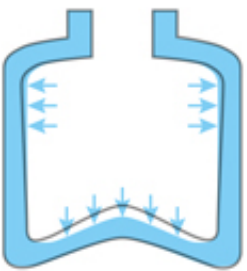
KING'S Preform Defect Lowing Rate Less than 0.5%.




Blowing




Finished



Thickness comparison



Blowing



Finished

Longer

Different Thickness of Bottom and Sidewall.

OTHERS

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