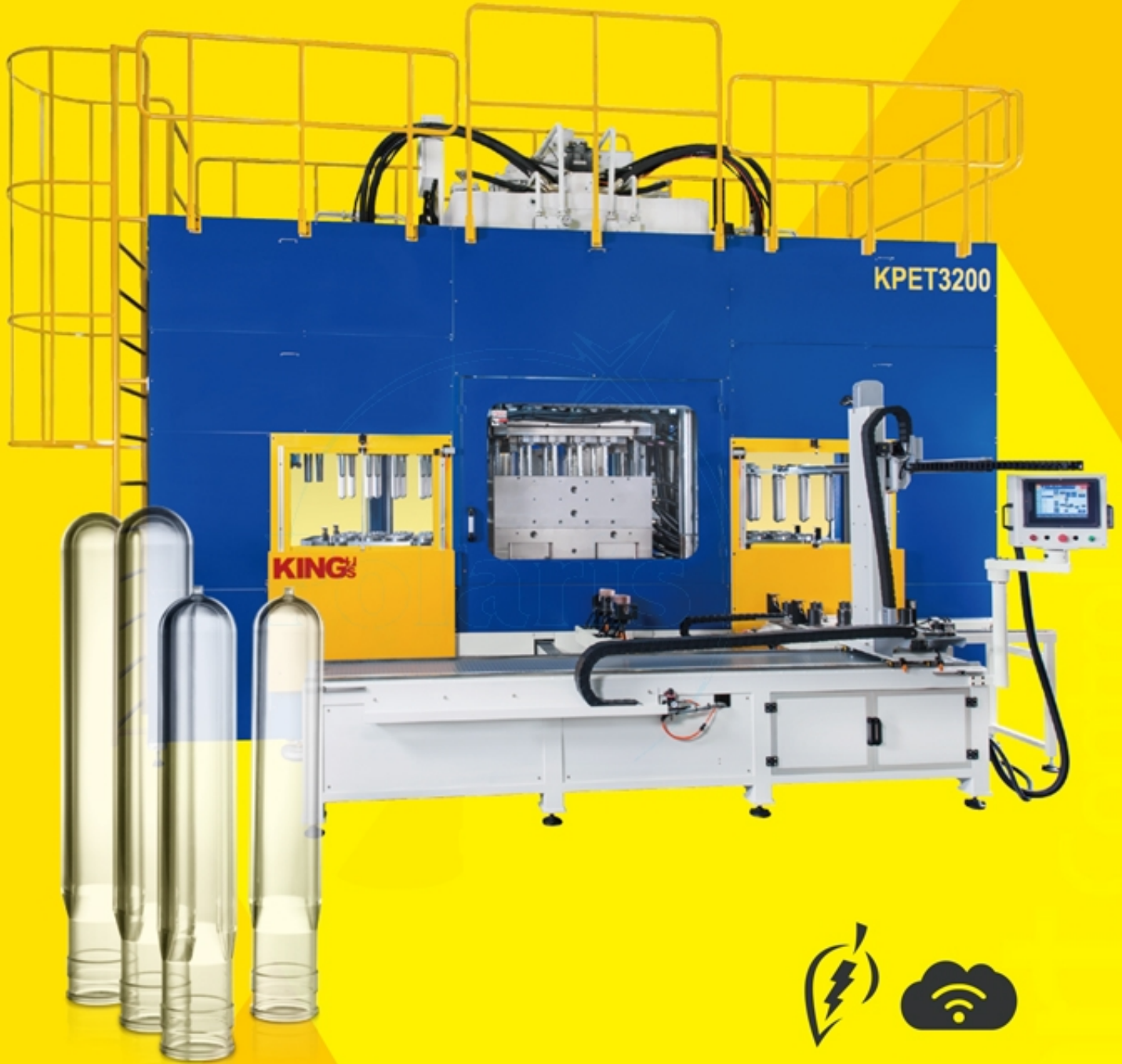




Design Green



Gallon Bottle

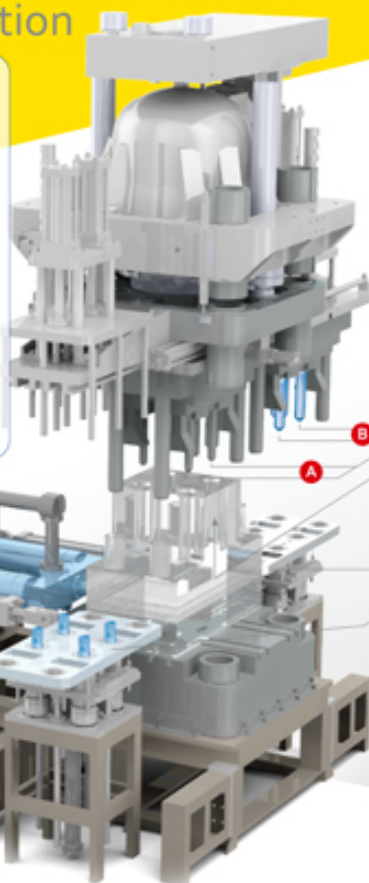
PET Preform Injection Molding Machine
Turn-Key Solution

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.

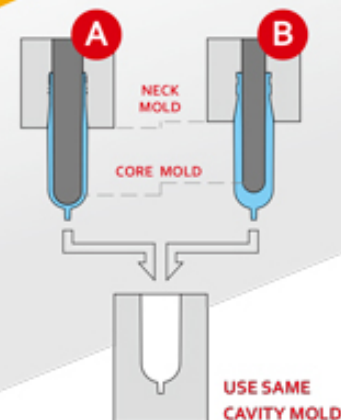
Vertical Clamping and Upward Mold Flow

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

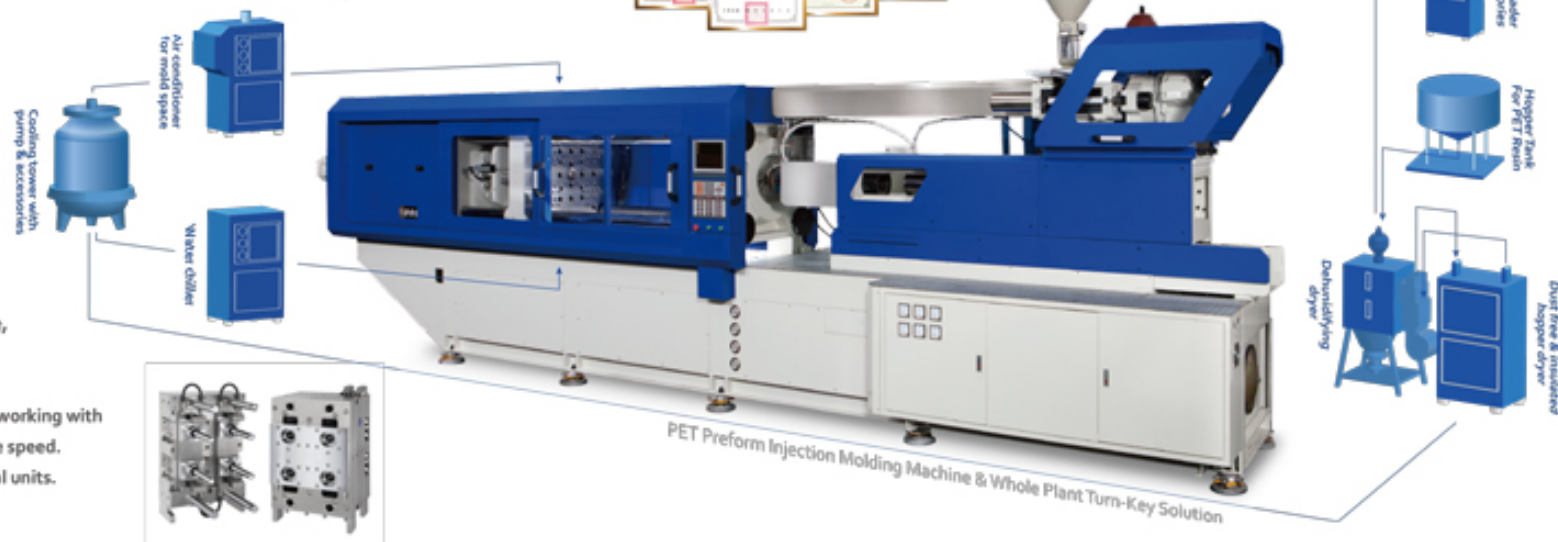
Double core molds work with one cavity half, save 80% holding/cooling time while molding. Efficient post mold cooling by core mold, preforms keep cooled for one more cycle, ensure the quality and straightness.



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

Cavity Number & Moldflow Testing 	 Horizontal Injection  For 1~4 cavity		 Vertical Injection  For 8+8 cavity
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			

Comparison-Clear

Shorter
Clear
Low Stress
High Yield Rate
High Clarity



Heat Treat

- ▶ Super long Cooling time saving stroke time by clamping system which can reduce cycle time
- ▶ 2-stage Charge & Injecting system, power & accurate injector system saving time
- ▶ Secondary cooling tube system to optimize cycle time
- ▶ Precision PID Temperature control system via PLC
- ▶ IPC Control system to protect our IP & reduce risk

USB data transfer system

▶ 50% energy saving by using the pump & the cooling system.

Longer
Foggy
High Stress
Low Yield Rate
Low Clarity

KING'S

OTHERS

Comparison-Blowing

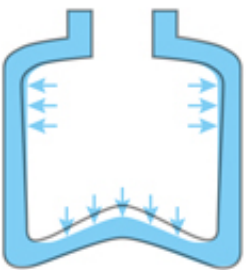
Shorter



More Distant



Blowing



Thickness comparison



Blowing

Longer



KING'S

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

OTHERS

Different Thickness of Bottom and Sidewall.

KING'S Solution Corp.

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