

Direct-compression injection machine

Pro High Performance 400

High integration · Energy-saving and de-noising excellence · High efficiency · Stability · Outstanding

Dimension : 9300x4850x2900MM (LxWxH)

clamping force : 420T (4200kN)

► Applications



Food and beverage



Dairy



Edible oil packaging
and condiment



Personal care



Medical consumables

► Clamping unit

- Linear guide rail is adopted with speed up to 1,000mm/s, and can be equipped with electric clamping mechanism.
- Direct pressure clamping mechanism is adopted to achieve a repetitive locking force accuracy of 0.5%.
- Low mold protection pressure is reduced by 30% and the required clamping force decreases by 10%.
- Tie bar is independently supported, extending the service life of the seal by 100%.
- Removable tie bar device can be deployed to reduce production building height requirement.

► Robot part

- Three/four station external cooling system shortens the production cycle.
- The upgraded manipular with 3 axis CoolPik board can achieve 5,000mm/s preform fetching speed.

► Injection unit

- The dual stage injection molding system offers independent and continuous plasticization with stable melting quality and AA value no larger than 8ppm.
- The independent plunger injection ensures a stable repeatability accuracy of 0.1%.
- The fully servo electric melt adhesive, paired with a new energy-saving heating ring can save up to 20% energy.
- The screw adopts material of H414 and is plated with hard chromium to ensure long service life, reduced black spots, and easy cleaning.

► Power/Operating system

- Efficient servo hydraulic system is used to save energy up to 20%, and reduce the noise below 83dB.
- The high response servo proportional valve adopted is fast and stable, with a repeatability accuracy of 0.2mm.
- Process monitoring system SPC application is used for process control and quality tracing.

► Pro High Performance 400 injection molding machine parameters

Device Description	Project	Item	Unit	PHP 400
Injection Unit	螺杆直径	Screw diameter	mm	120
	螺杆长径比	Screw L/D ratio	L/D	25
	理论射胶容积	Thoretical shot volume	cm ³	4026
	理论最大注射量	Thoretical max shot volume	g	4630
oz			163.3	
Clamping Unit	锁模力	Clamping force	ton	420
	移模行程	Clamping stroke	mm	700
	模具厚度(最小/最大)	Mold thickness(min/max)	mm	500/850
	哥林柱内距	Tie bar space	mm	930x1020
	顶出力	Ejection force	ton	15+57
	顶出行程	Ejection stroke	mm	200
	顶杆数量	Number of Ejectors	pcs	11
molds	腔数(max)	Number of cavities	pcs	96/128
Power Unit	马达功率	Motor power	kw	258.9
	机械手功率	Robot power	kw	54.7
	溶胶电热功率	Electric pre-molding power	kw	90
	模具加热功率	Mold heating power	kw	89
Overall Unit	最大系统压力	Max system pressure	kgf/cm ²	190
	外形尺寸	Machine size(L×W×H)	mm	9300x4850x2900

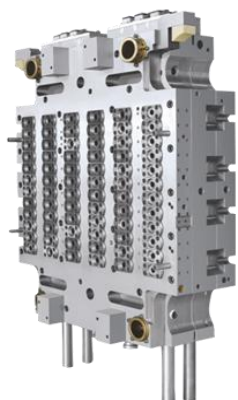
Note: The company is constantly improving its products. If there are any changes, please do not notify us separately and reserve the right to explain.

“Turnkey” solution for PET injection molding system

We can provide integrated system injection molding "turnkey" solutions from factory layout optimization to engineering implementation, from PET silos to packaging equipment.



Injection mold



Dehumidification dryer



Mold dewater



Cooling water machine



Case packer