

SA-h SERIES

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薄壁包裝專用機

High-Speed Thin-Wall Injection Molding Machine

夾模設計 Clamping structure design

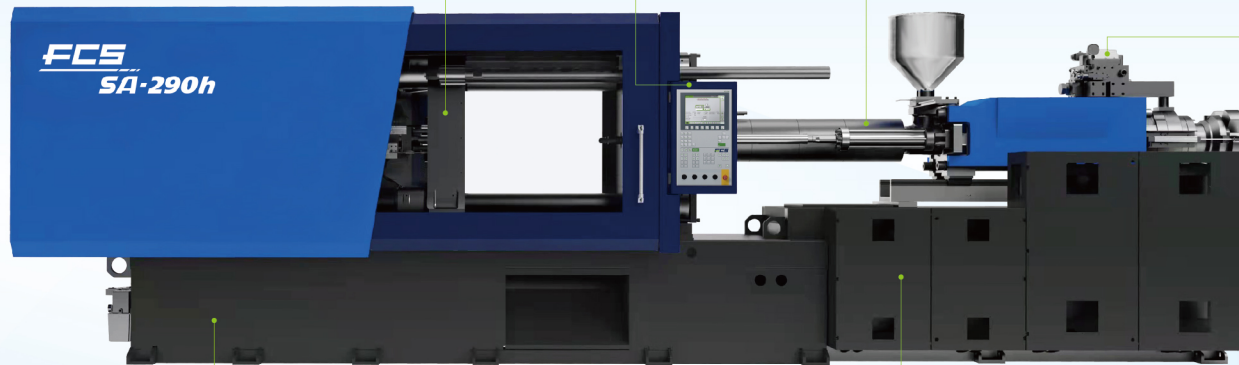
- 高剛性模板設計，彈性變形小，成型鎖模力更低。
- 標配高速比例閥，開模響應更快，定位更準，循環週期短。
- High rigidity platen mechanism, less deformation, lower clamping force.
- Standard high-speed proportional valve, with fast mold open response, accurate positioning and short cycle time.

電控單元 Control system

- 標配KEBA控制系統。
- 動作掃描週期1ms以內。
- 符合人體工程學佈局。
- 具資料圖像監控功能。
- Standard equipped with KEBA control system.
- Operation mode scan within 1ms.
- Ergonomic layout.
- Data image monitoring.

精準溫控 Precision temperature control

- 標配紅外奈米加熱圈，升溫快，保溫性能好，節能超過30%。
- 採用PID溫度控制，可控制在 $\pm 1^{\circ}\text{C}$ 。
- 採用大L/D比，高混煉螺桿，塑化效果好。
- Standard infrared heater, fast heating, good heat preservation, energy saving over 30%.
- Adopt PID temperature control, temperature control within $\pm 1^{\circ}\text{C}$.
- Adopt large L/D ratio, high mixing screw and good plasticization efficiency.



精準注射 Precision injection molding

- 射台及座移採用雙線軌設計，摩擦阻力低，精度更高。
- 中慣量單缸射出結構，起速快，重複精度高。
- The injection unit support adopts high-precision double linear guides, the lower friction resistance, the higher precision.
- The medium-inertia single-cylinder injection mechanism, fast response and high repeatability.

先進機架工藝 Advanced machine base technology

- 整機管路採用無焊接工藝，降低漏油風險。
- 提升油路清潔度，機台壽命更長。
- The pipelines adopt no welding processing, decreasing the risk of oil leaking.
- Improving the cleanness of oil circuits and increase machine life.

伺服電機系統 Servo motor system

- 標配高性能伺服動力系統，節能約30%-70%。
- 獨特的模組化設計，方便維修。
- 可以實現雙迴路動作，最大程度縮短成型週期。
- Equipped with high performance servo power system, energy saving about 30%-70%.
- Unique modular design, easy maintainance.
- It can be realized double loops system, improving production efficiency.

SWAN

ITEMS		UNIT	SA-220h	SA-290h	SA-330h
射出單元 Injection unit	類型 Type	-	600	770	770
	螺桿直徑 Screw diameter	mm	45	50	50
	射出行程 Screw stroke	mm	230	230	230
	理論射出容積 Theoretical shot volume	cm³	366	452	452
	理論射出量 Shot weight of injection (PS)	gram	333	411	411
	射出壓力 Injection pressure	kgf/cm²	1651	1710	1710
	射出速度 Injection Speed	mm/sec	330	395	445
夾模單元 Mold clamping unit	射出率 Injection rate	cm³/sec	528	778	876
	閉模力 Mold clamping force	tonf	220	290	330
	夾模行程 Mold clamping stroke	mm	500	550	640
	模厚 Mold thickness	mm	200~550	220~580	250~610
	大柱內距 Tie bar spacing (H × V)	mm	530×470	580×515	630×585
	模盤尺寸 Mold platen (H × V)	mm	800×800	875×875	940×900
	頂出行程 Ejector stroke	mm	135	140	140
電氣單元 Electrical equipment	頂出力 Ejector force	tonf	6.7	8.8	8.8
	最大油泵動力 Max. pump driving motor	kW(380V)	45	37+37	45+37
其 他 Others	電熱容量 Heater capacity	kW	19.4	20.4	20.4
	機械尺寸 Machine dimensions (L × W × H)	mm	6100×1550×2100	6590×1630×2100	6900×1710×2100
	油箱容量 Oil tank capacity	liter	420	500	500
	機械重量 Machine weight	ton	8	11	13

ITEMS		UNIT	SA-380h	SA-460h	SA-500h
射出單元 Injection unit	類型 Type	-	900	1000	1000
	螺桿直徑 Screw diameter	mm	55	58	58
	射出行程 Screw stroke	mm	230	230	230
	理論射出容積 Theoretical shot volume	cm³	546	608	608
	理論射出量 Shot weight of injection (PS)	gram	497	553	553
	射出壓力 Injection pressure	kgf/cm²	1655	1707	1707
	射出速度 Injection Speed	mm/sec	445	475	475
夾模單元 Mold clamping unit	射出率 Injection rate	cm³/sec	1057	1260	1260
	閉模力 Mold clamping force	tonf	380	460	500
	夾模行程 Mold clamping stroke	mm	690	750	790
	模厚 Mold thickness	mm	250~680	280~730	300~800
	大柱內距 Tie bar spacing (H × V)	mm	670×640	720×720	770×720
	模盤尺寸 Mold platen (H × V)	mm	1000×970	1090×1090	1175×1120
	頂出行程 Ejector stroke	mm	140	140	145
電氣單元 Electrical equipment	頂出力 Ejector force	tonf	8.8	8.8	13.0
	最大油泵動力 Max. pump driving motor	kW(380V)	45+45	55+55	55+55
其 他 Others	電熱容量 Heater capacity	kW	29.2	32.6	32.6
	機械尺寸 Machine dimensions (L × W × H)	mm	7170×1810×2300	7850×1950×2300	8230×2020×2300
	油箱容量 Oil tank capacity	liter	580	580	580
	機械重量 Machine weight	ton	14.8	18.5	21

薄壁包裝經典應用 Application of Thin-Walled Packaging

產品 Product	容量 Capacity	腔數 Cavity	單個產品 克重 Weight (g)	壁厚 Thickness (mm)	適配機型 IMM Model	成型周期 Cycle time (s)
 打包盒 Square food box	1000ml	4	14~16	0.35~0.4	SA-380h	4.5~5.5
		6			SA-460h	5.2~5.8
		8			SA-500h	5.5~6.0
 打包盒蓋 Round food box lid	for 1000ml	6	7~8	0.35~0.4	SA-330h	4.5~5.2
		8			SA-380h	5.0~5.5
		12			SA-500h	5.5~6.5
 9070模內貼奶茶杯 9070 IML bubble teacup	700ml	6	21~25	0.4~0.5	SA-380h	6.0~7.0
		8			SA-460h	6.5~7.2
 奶茶杯蓋 Bubble teacup lid	-	12	4~6	0.4~0.5	SA-290h	5.2~5.5
		16			SA-330h	5.5~6.0
		24			SA-380h	6.0~6.5
 4格便當盒 Bento box with 4 compartments	1000ml	2	22~26	0.35~0.4	SA-290h	6.5~7.0
		4			SA-460h	6.0~6.5
 P4醬料杯 P4 Sauce cup	120ml (4 oz)	16	5.0~5.5	0.35~0.4	SA-290h	6.0~7.0
		32			SA-460h	6.5~7.0
 食品包裝桶 Food container	1000 ml	2	55~60	0.7~1.2	SA-290h	7.0~7.5
		4			SA-380h	9.0~9.5
 勺 Spoon	-	32	1.7~1.8	0.4~0.6	SA-290h	7.0~8.0
		48			SA-290h	8.5~9.0

本資料僅供參考。因產品不斷研究改良，設計變更時恕不另作通知。

The features are for reference only. Due to continuous improvements, we reserve the right to amend any of the above specifications without prior notice.

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