

ECO

Electrical Type

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No.3



電氣式射出成型機



LIENFA®

鏈發射出機械(股)公司
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ECO Electrical Type

ECO ECO⁺ ECO_s 120t ~ 450t

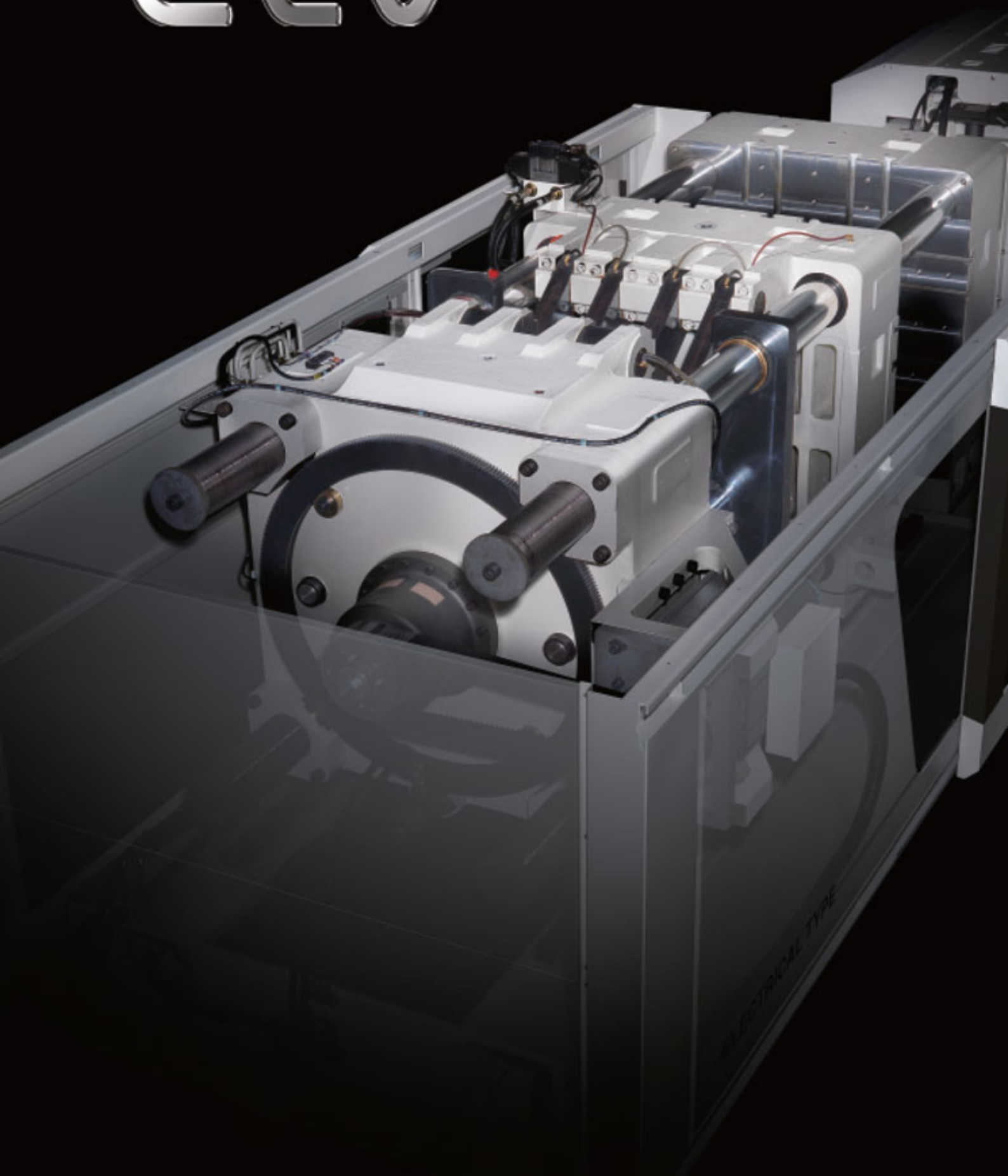
TYPE	Unit	ECO120			ECO160			ECO200			ECO250			ECO350		ECO450	
料軸直徑 Screw Diameter	mm	28	30	35	30	35	40	40	45	50	50	55	60	60	65	65	70
射出重量 Shot Weight (PS)	gram	82	94	129	126	172	225	282	357	441	529	640	762	890	1044	1194	1385
射出壓力 Injection Pressure	kg/cm	2642	2301	1690	2838	2085	1596	2589	2045	1657	2043	1689	1420	2109	1797	2450	2113
理論射出容積 Theoretical Shot Volume	cm ³	92	105	144	141	192	251	314	397	490	588	712	847	989	1160	1327	1539
射出行程 Injection Stroke	mm	150			200			250			300			350		400	
最大保壓力 Max. Holding Pressure	kg/cm	2114	1841	1352	2270	1668	1277	2071	1636	1326	1635	1351	1136	1687	1438	1960	1690
保壓最長時間 Max. Holding Pressure Time	sec.	90			90			90			90			90		90	
射出率 injection Rate	cm ³ /sec	98	113	153	113	153	200	200	254	314	314	379	452	452	530	530	615
射出速度 injection Speed	mm/sec	160			160			160			160			160		160	
ECO 射出率-高速 injection Rate - high speed	cm ³ /sec	166	190	259	190	259	339	339	429	529	529	641	763	763	895	895	1038
ECO+ 射出速度-高速 injection Speed - high speed	mm/sec	270			270			270			270			270		270	
入料轉速 Screw Rotation Speed	rpm.	300			300			300			300			200		200	
可塑化力 Plasticization	kg/hr	33	38	52	38	52	68	68	86	106	106	128	153	153	179	179	207
閉模力 Plasticization clamping force	ton	120			160			200			250			350		450	
開模行程 Opening Stroke	mm	390			450			470			520			630		750	
模厚大小 Minimum Mold Thickness	mm	200 ~ 450			200 ~ 500			200 ~ 550			250 ~ 600			300 ~ 700		350 ~ 800	
總行程 Maximum Daylight	mm	840			950			1020			1120			1330		1550	
機柱間隔 Tie Bar Clearance (HxV)	mm	460x460			505x505			560x560			610x610			715x715		810x810	
定位環 locating Ring	mm	100			100			100			150			150		150	
頂針行程 Ejector Stroke	mm	100			120			120			150			180		200	
頂針力 Ejector Force	ton	4.5			5.5			5.5			12			15		18	
電熱容量 Heater Capacity	kW	8			12			12			15			18		22	
機械尺寸 Machine Size (LxWxH)	mm	5200x1500x1800			6000x1600x2000			6700x1670x2030			7400x1730x2070			8160x1815x2188		9760x2000x2300	
機械重量 Machine Weight	ton	5.2			7.8			9.6			14			21		25	

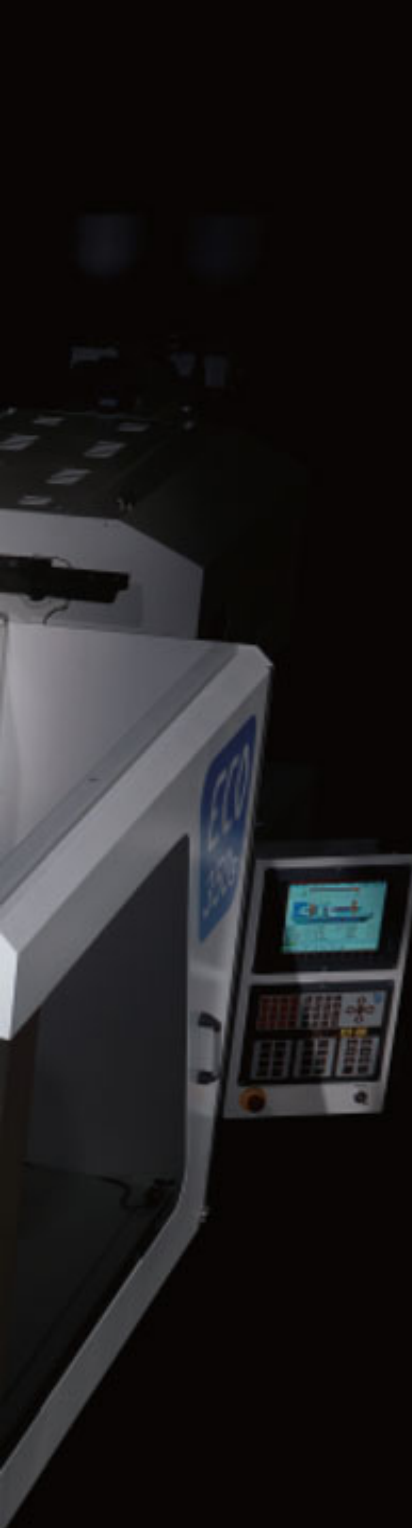
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SPECIAL SPECIFICATION ORDERING IS ACCEPTABLE. 本公司亦接受特規格之訂製

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◎350mm/s最高射速 ◎90sec.長時間保壓能力 超節能、具備精密成型條件、滿足全面性的產品應用

技術：全閉迴路與光學尺定位，確保每一個動作為精確的絕對位置。這樣的設計徹底降低螺桿滾珠磨耗，且提供了譯碼器無法達到的精準度，大幅延長了整個伺服系統的使用年限。通過光學尺精確定位輔助，讓更換滾珠螺桿可以跟更換螺以一樣簡單，這幾乎是機電伺服系統最具革命性的發展。

保壓：驅動器具有大電流低熱點特點，保壓能力可長達90秒，這意味著ECO具備更廣泛的產品生產能力。

低熱點：全閉迴路設計，每一分能源都被準確的充分利用，運行期間不會有不必要的餘熱排放。此功能使ECO非常適合必須嚴格控制環境溫度的生產環境下作業。

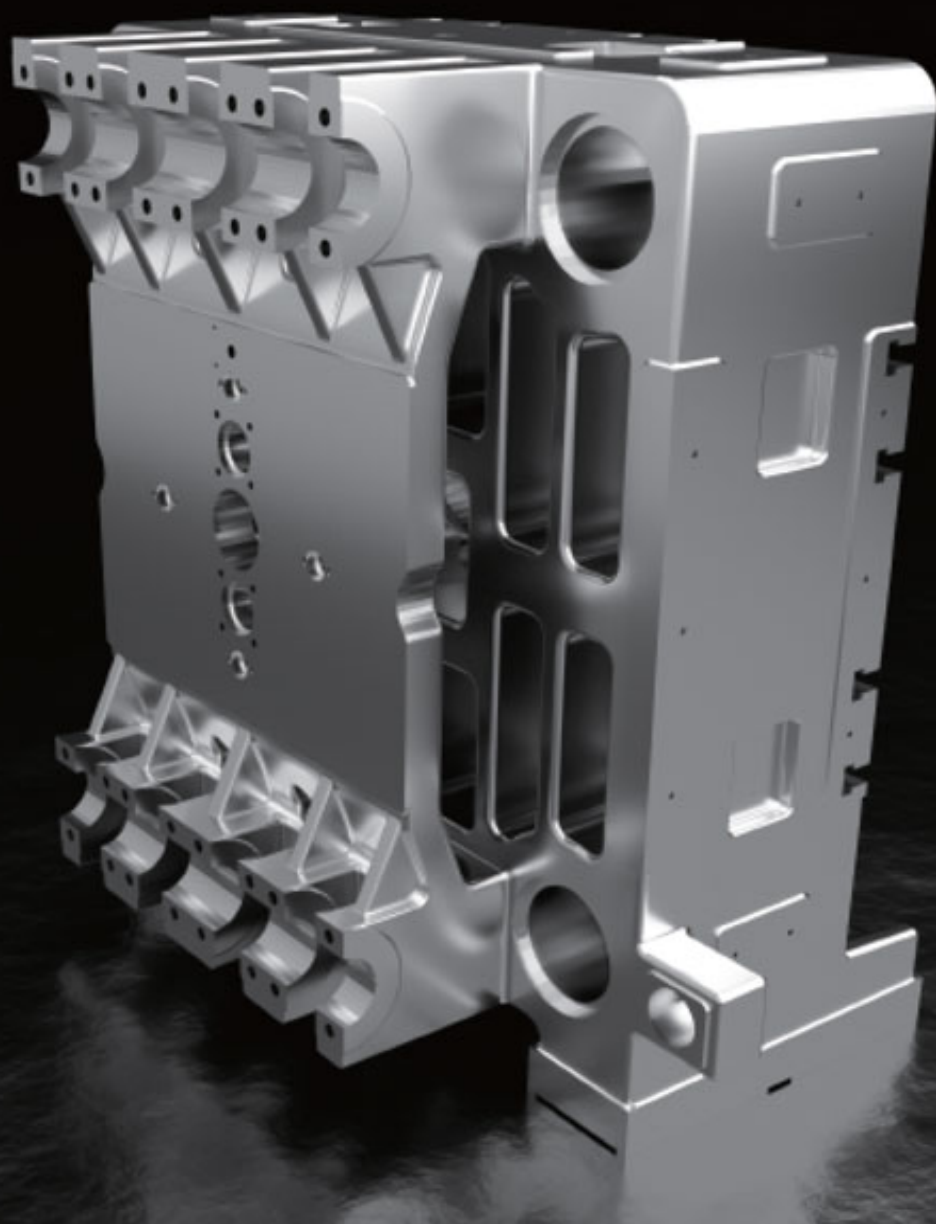
低成本：實現電動注塑機的市場普及，客戶成本效益是ECO的主要設計原則之一。將伺服油壓迴路驅動整合到調模、台座進退、頂針系統之中。在減少消耗性零件的使用之後，最大限度地減少系統維護需求降低運營成本。

Technology: Closed-loop circuit with transducer positioning to achieve absolute position during complete cycle. This advantage reduces ball screw wear off and extend its use-life. Furthermore, it makes replacing ball screw has become easy as changing screw barrel. This is the most revolutionary development from LIEN FA ECO machine.

Holding pressure: The great characteristics from inverter with high –current low hotspot, enable to achieve the holding pressure up to 90 seconds. Thus, the wider range applications can be manufactured.

Low hotspot: Closed-loop circuit design enable to utilized energy accurately, therefore no unnecessary heat emissions during operation. This advantage allows ECO model ideally suited to production line that require controlled of ambient temperature.

Cost Reduction: In order to achieve market universalness, customer cost-effective become also the main concern. The carriage and ejector both functions are integrated as hydraulic servo loop to ECO machine. It is able to reduce maintenance needs and consumable parts, further minimizing operation costs, but still remain high-efficiency operation.



ECO 第三代機構剛性大幅提升15% · 能確保長時間高產能的穩定度維持。