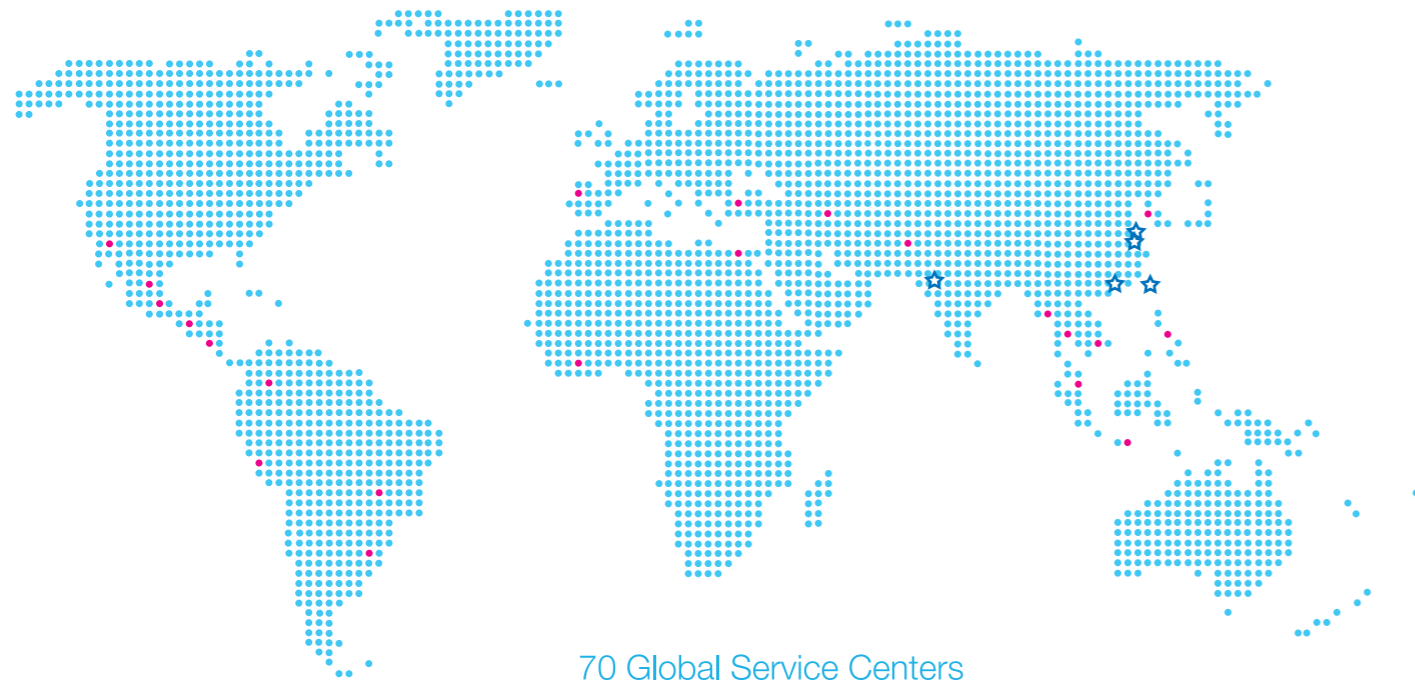


【全球行銷服務網】 Global Marketing Network



70 Global Service Centers

## 富強鑫集團 FCS Group

### 富強鑫精密工業股份有限公司 Fu Chun Shin Machinery Manufacture Co., Ltd.

71841 臺灣台南市關廟區埤頭里保東路269號  
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### 東莞富強鑫塑膠機械製造有限公司 Dongguan Fu Chun Shin Plastic Machinery Manufacture Co., Ltd.

廣東省東莞市大朗鎮石廈管理區金廈東路18號 郵編：523792  
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### 印度富強鑫

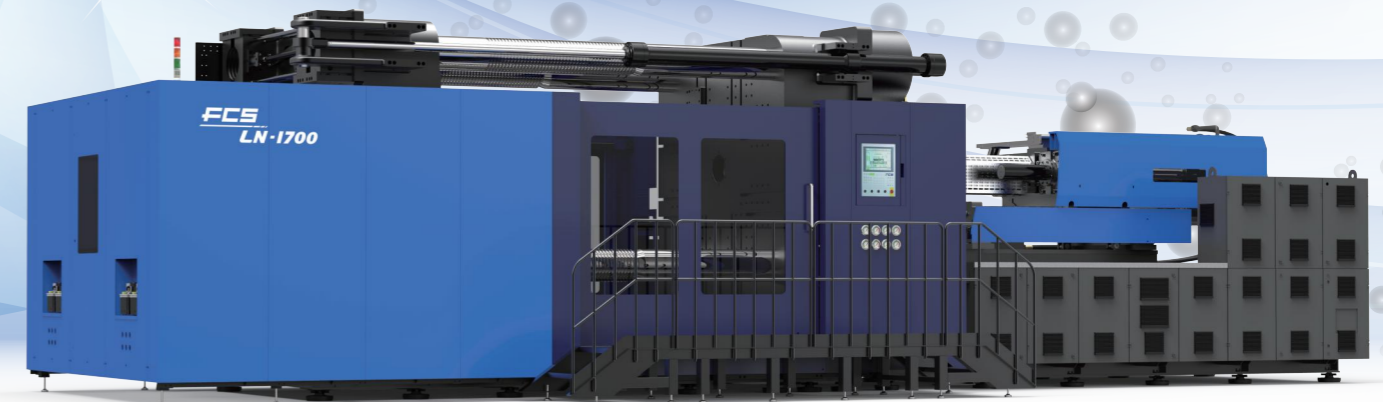
#### FCS Manufacturing (India) Private Limited

Block Number 218, Xcelon Industrial Estate, Near Intas Pharmaceutical, Village Chancharvadi Vasna,  
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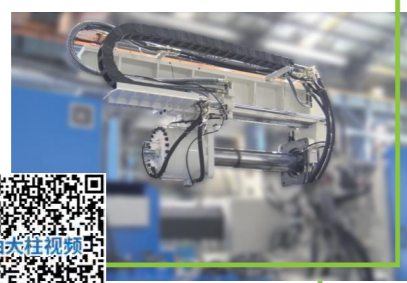
**FCS**  
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# LN SERIES

## 二板式精密注塑機 Two-Platen Injection Molding Machine

## 優異特點 Specific Features

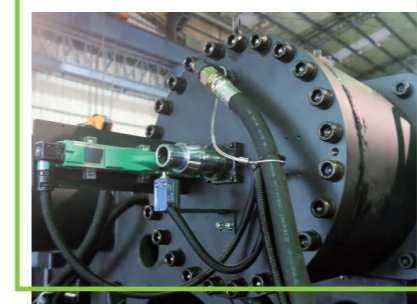


### 大柱可抽離單元(選配)

克服客戶廠房高度空間限制，解決模具安裝問題。

### Tie-bar Puller (Optional)

To solve the height limit of the plant when the mold is not able to be installed from top of the machine.



### 高壓缸設計

高壓油缸設計，油壓閥，控制精準，確保大柱受力均勻，並可在射出過程中提供充足的鎖模力。

### High Pressure Cylinder Design

The industry proven valves balance force across all four tie bars to minimize platen deflection.

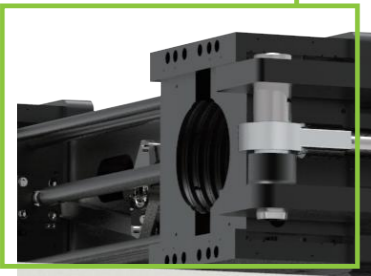


### 射出單元

多軸式射出驅動機構，更精密，更穩固。

### Injection Unit

An injection unit featured with a multi-axled driven mechanism for precision and stability.



### 大柱夾持

精確大柱夾持結構，與大柱在正確位置抱合，確保足夠鎖模力。

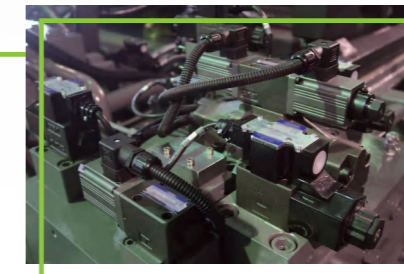
### Tie Bar Locking Mechanism

A tie bar locking system with split nut mechanism for accurate clamping force and position.



### 節能油壓迴路

- 模具真空解除高壓開模迴路。
- 開模採高壓迴路設計，可加大開模力，確保開模動作順暢。
- 模具低壓保護，確保模具壽命。



### Power Saving Hydraulic Loop

- High pressure to break mold vacuum.
- Low pressure protection to enhance the mold life.
- Mold clamping system with high-pressure design can increase the clamping force and ensures operational stability.

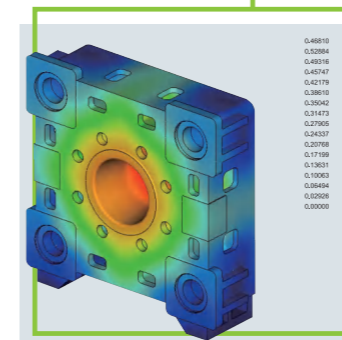


### 活動壁滑腳

二板機專用活動壁支撐結構，可確保車壁動作平行度及準確度。

### Moving Platen Guide

Moving platen support with exact guiding design to ensure precise movements even when heavy molds are mounted.



### 夾模單元

模盤採用有限元素分析協助設計，確保機台及模具受力均勻，延長使用壽命並提升產品品質。

### Clamping Unit

Platens are designed with FEM analysis to ensure the machine and the mold sustaining force balance which extends the machine life and also increase product quality.



## 小材大用 Your mini Giant

如何利用有限的資源做更有效率的生產，已成為新時代致勝的關鍵，富強鑫二板式注塑機協助您使用**更小的空間、更少的能源**，達成您更大的目標。

Producing plastics products more efficiently has already become a key factor for winning the competition in the market, FCS two-platen injection molding machines are the best option for you, to help you decrease space usage and save energy to reach your goals.

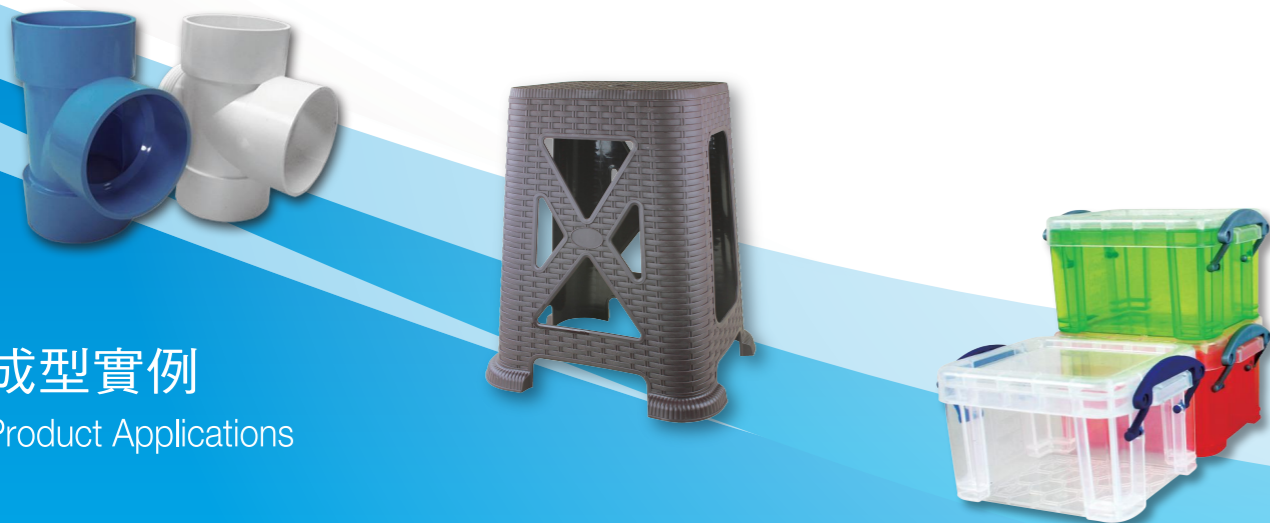
- 開關模行程及容模量大，適用的產品更為廣泛，特別是深桶型產品。
- 鎖模機構短，可節省30%以上廠房空間。
- 閉模力設定簡單且精簡，可有效提升機器壽命。
- 射出時，加壓缸提供補壓，可持續提供準確穩定之閉模力。
- 伺服節能省電系統，平均節省40~70%能源。
- In comparison with conventional machinery, the LM has a larger mold clamping stroke and capacity, allowing for products with greater depth.
- Our proven two-platen-design saves up to 30% of your valuable floor space.
- The high-pressure clamping control is easy to set up and has higher precision.
- Accurate and stable mold closing force is achieved by continuously monitoring and controlling the pressure in each tonnage cylinder throughout the injection cycle.
- Servo motor technology allows customers to see an average power saving between 40%-70%.

### 二板式與三板式注塑機之比較

#### Comparison of 2-platen and 3-platen type injection machine.

項目 Item		型式 Type	二板式 2-Platen				三板式 3-Platen			
			直壓式 Direct Clamping		曲肘式 Toggle					
佔用空間 Footprint		最小 Smallest	中等 Common	最大 Largest						
容模空間 Daylight		最大 Largest	中等 Common	最小 Smallest						
調模時間 Die Height Adjustment		最短 Shortest	短 Short	長 Long						
技術前瞻 Technique		最高 Highest	高 High	低 Common						
潔淨度 Cleanliness		最高 Cleanest	中 Cleaner	低 Normal						

## 成型實例 Product Applications



## 電控單元 Control Unit

### 應用功能

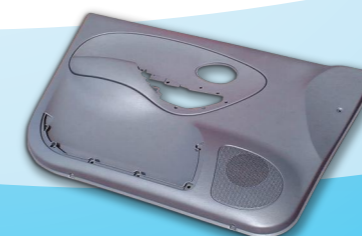
- 12吋超大TFT顯示螢幕、1600萬色真彩顯示及800x600像素分辨率，觸控式操作面板，為一操作簡易的控制器。
- 採用功能強大的CPU其時脈為1.1~1.6GHz，系統反應時間至快可達1ms。
- 採多重通訊介面(USB、串行接口、Ethernet EtherCAT、Sercos III)。
- 所有程序都儲存在CF卡，更換控制器及程式均相當便利。
- 該控制器支援OPC協定，且依據IEC-61131設計，其特點為模組化並易於軟硬體維護。
- 共有多種語言可供客戶選擇。
- 十二段PID料溫控制，採用SSR無接點溫控，精確度達±0.1°C，並具溫度異常斷線警報及上下限設定功能，可精確掌控料溫。
- 具多階密碼保護功能、可依不同的授權等級更改設定，及資料硬體鎖功能，可防止成型參數被任意更改。
- 提供統計製程控制及射出波形圖，使成品有高效的品質保證以及提高生產效率。
- 模組化控制器，可快速擴充軟、硬體模組以連接更多週邊設備(如:閥澆口、快速換模系統...等)。

### Application

- A 12" TFT LCD screen display, with 16 million color palettes, 800x600 pixel resolution and a touchscreen panel ; User Friendly controller.
- Equipped with a powerful CPU (1.1GHz~1.6GHz). System reaction rate of 1ms promotes sensibility and stability of motion.
- Multiple communication interfaces (e.g. USB, RS232, Ethernet, EtherCAT, Sercos III)
- All software is stored on an exchangeable compact flash driver (CF Card), reducing downtime and providing ease of service.
- This controller also supports the open industry standard OPC. The controller was designed according to IEC-6113, featured together with a module, thus saving maintenance time.
- Multiple optional operation languages available for customers to choose from.
- The PID barrel temperature control, SSR temperature controller can reach precise levels with margins of ±0.1°C. It has an irregular temperature detector, wiring disconnection alarm function, and a limit value setup function to control the barrel temperature accurately.
- A multi-level authorization with password protection to prevent anyone from randomly changing parameters.
- The operating system contains integrated softwares such as statistic process control (SPC) and injection graphs for efficient quality assurance and increased productivity.
- With modular controllers design, rapid expansion of software and hardware modules to connect more peripherals (valve gate quick mold change system...etc.)



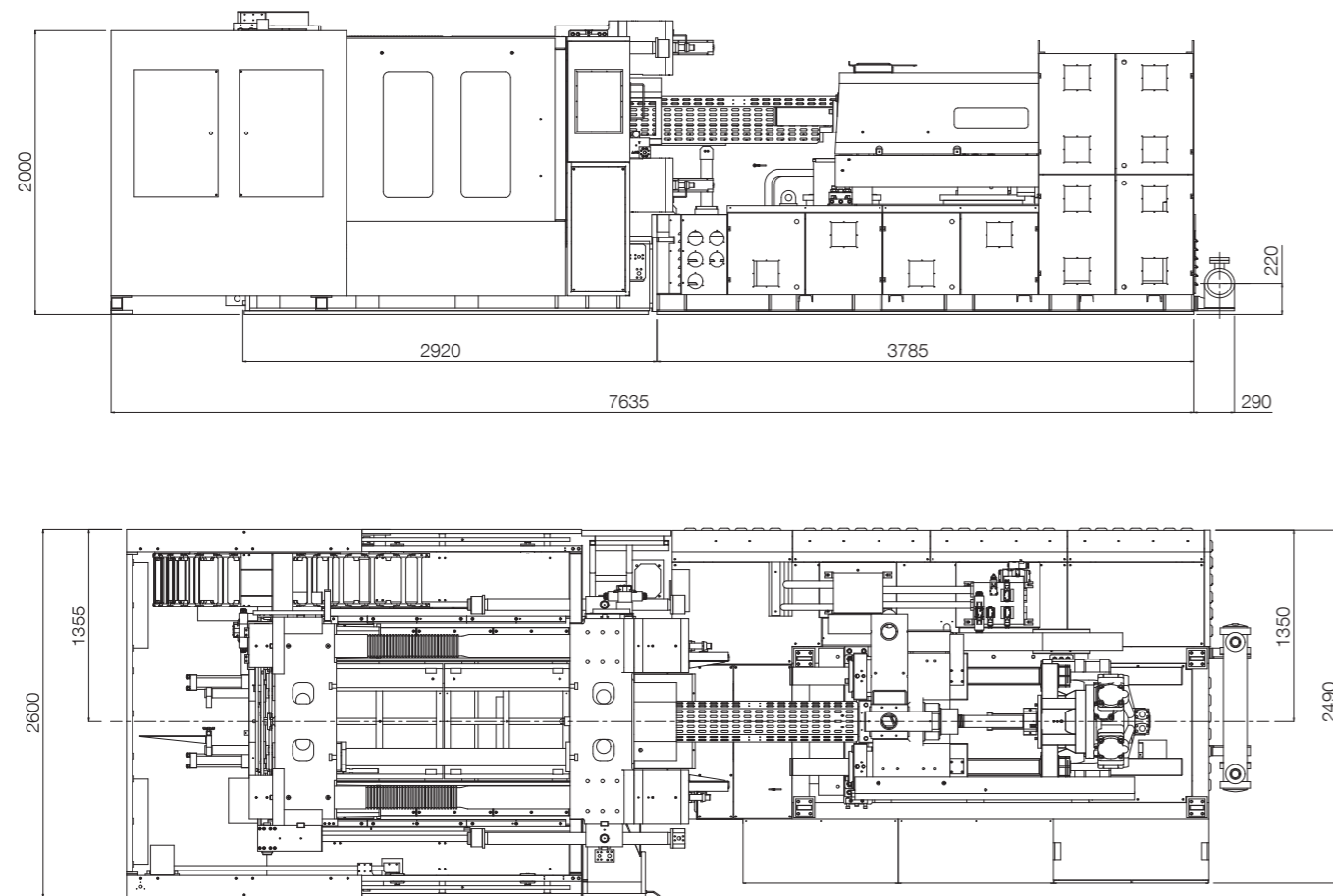
FCS-6500



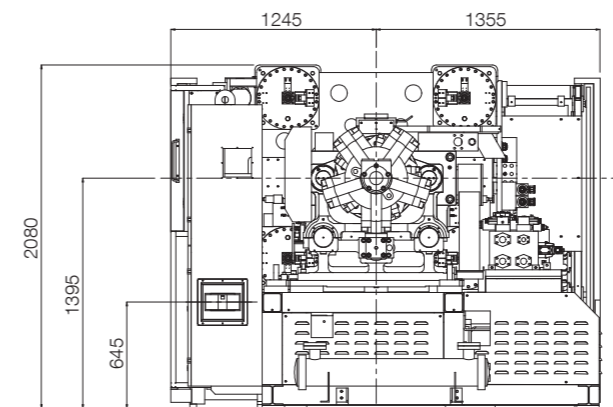
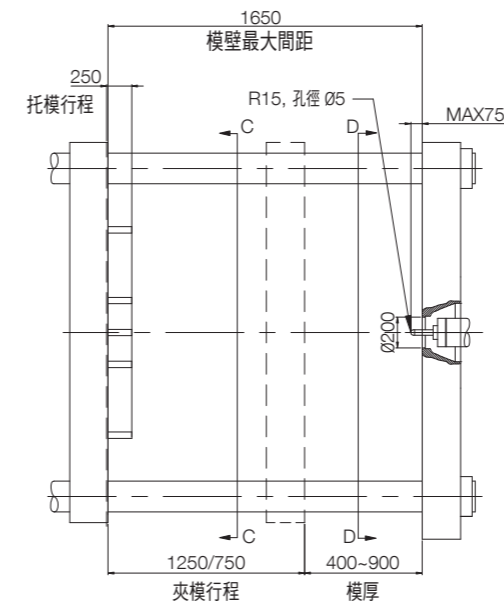
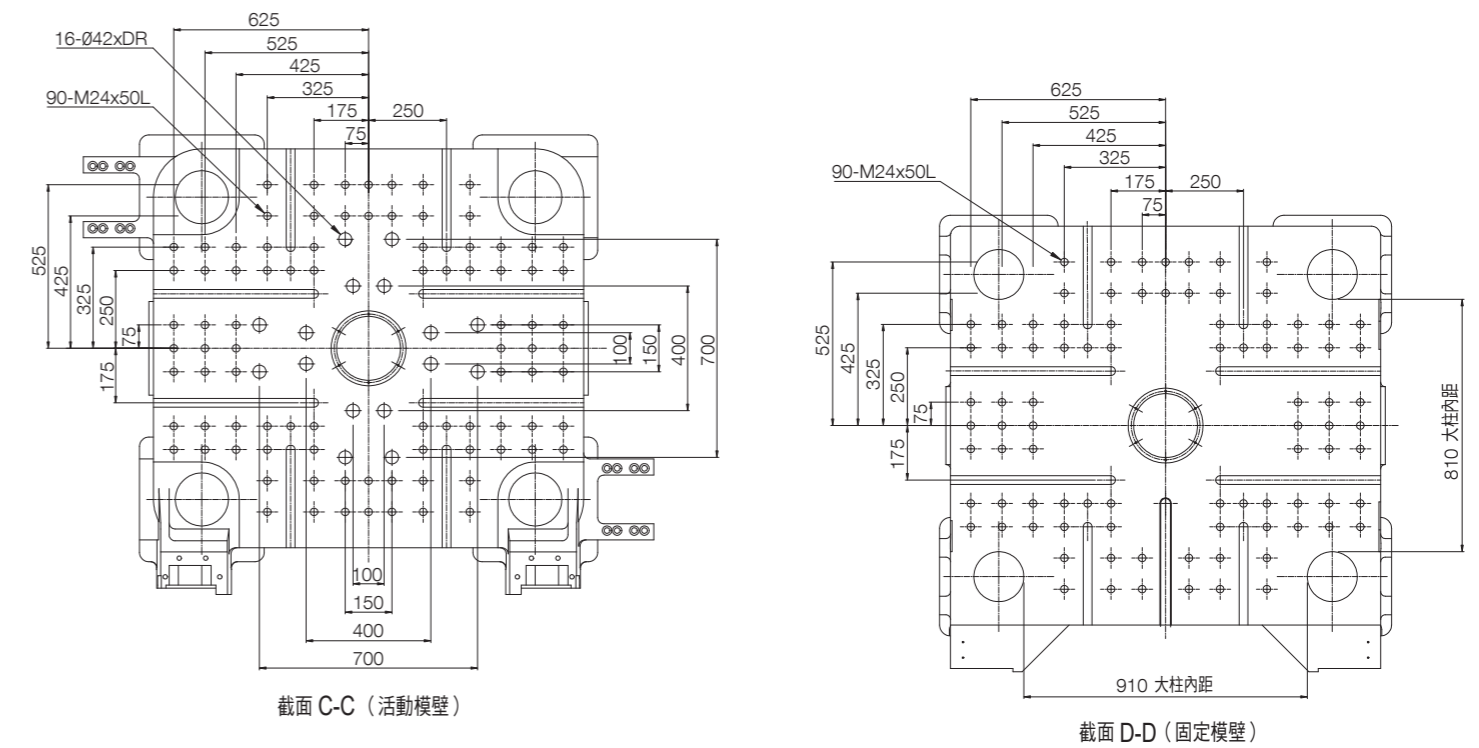
規格表 Specifications

ITEMS		UNIT	LN-500		
射出單元 Injection unit	類型	Type	4600		
	螺桿直徑	Screw diameter	mm	75	85
	射出行程	Injection stroke	mm	420	
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	1855	2382
	理論射出量 (PS)	Shot weight of injection (PS)	gram	1688	2168
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2466	1920
	射出速度	Injection speed	mm/sec	123	
	射出率	Injection rate	cm <sup>3</sup> /sec	495	636
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf	500	
	夾模行程	Mold clamping stroke	mm	1250/750	
	模厚	Mold thickness	mm	400~900	
	模具最大重量	Maximum weight of mould	tonf	5	
	模壁最大間距	Daylight	mm	1650	
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm	640x570	
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm	910x810	
	模盤尺寸 (HxV)	Mould platen (HxV)	mm	1380x1280	
電氣單元 Electrical equipment	托模行程	Ejector stroke	mm	250	
	托模力	Ejector force	tonf	11	
	泵浦驅動最大功率	Max. pump driving motor	KW	45*2	
其他 Others	溫度控制器	Temperature controller	(range) set	(0-400 °C)x8	
	電熱容量	Heater capacity	kw	37.55	
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm	8200x2700x2200	
	油箱容量	Oil tank capacity	liter	1210	
	機械重量	Machine weight	metric tons	26	
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140	

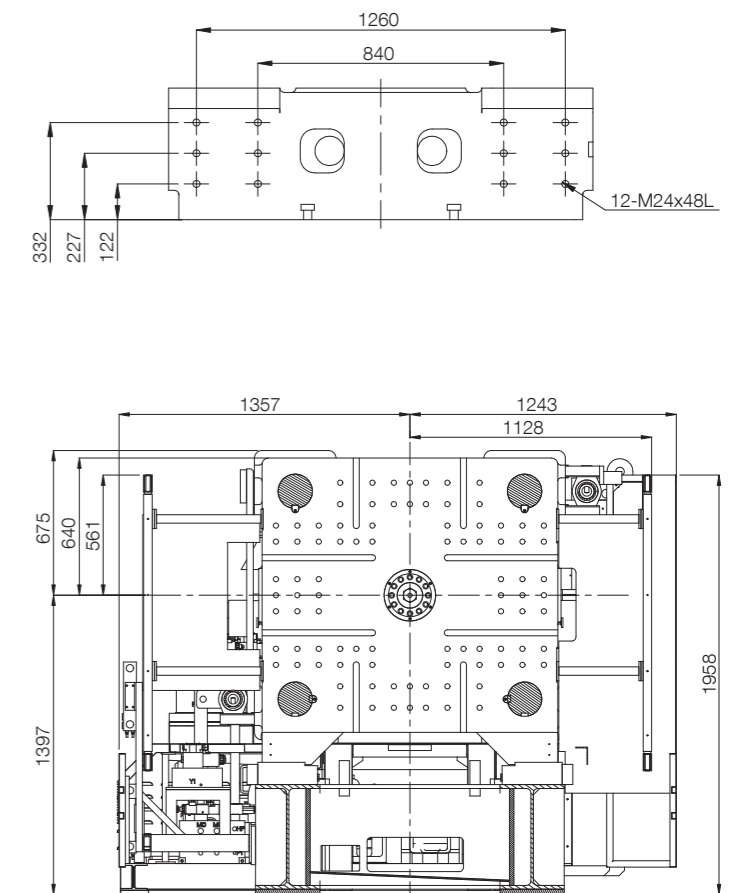
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole

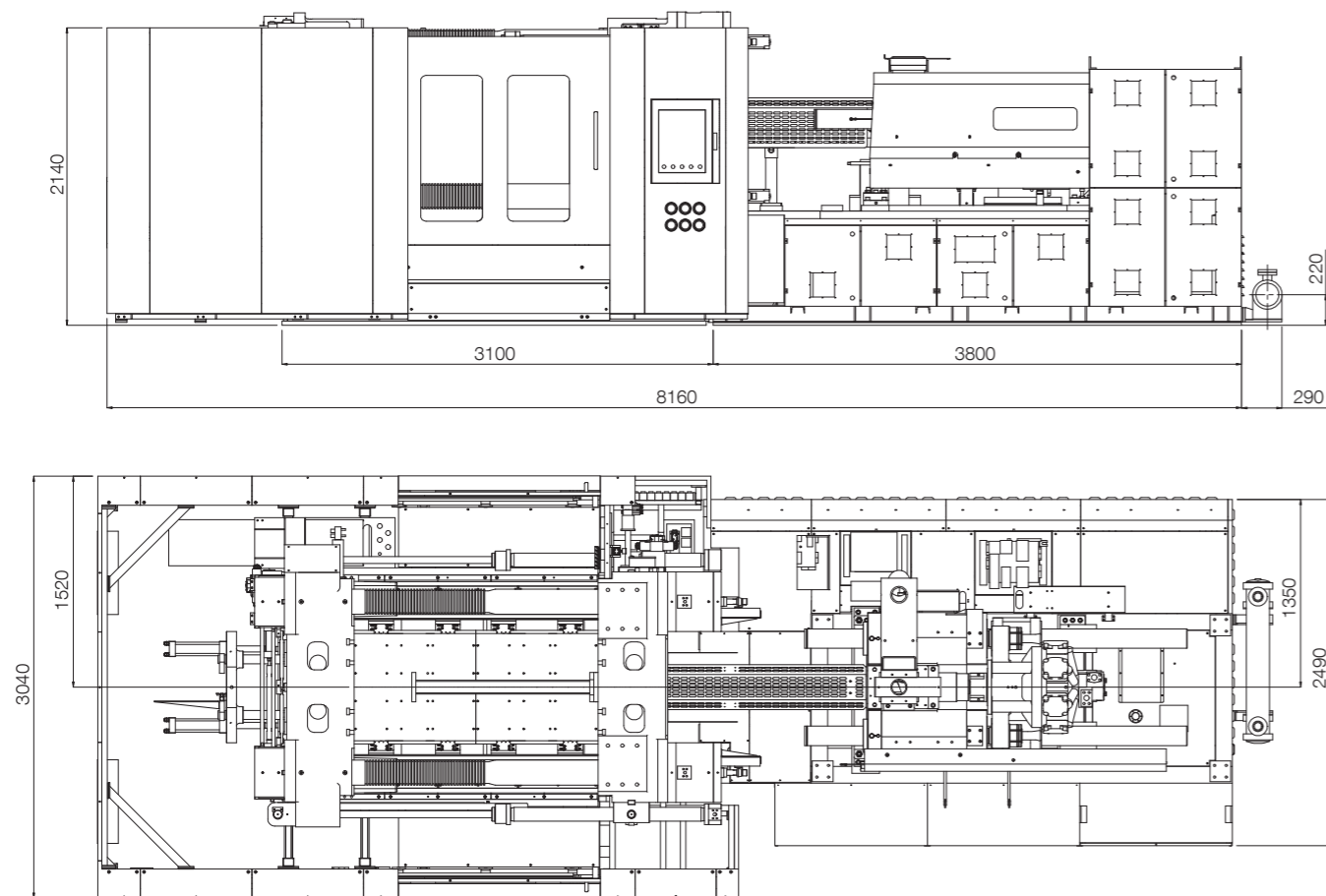




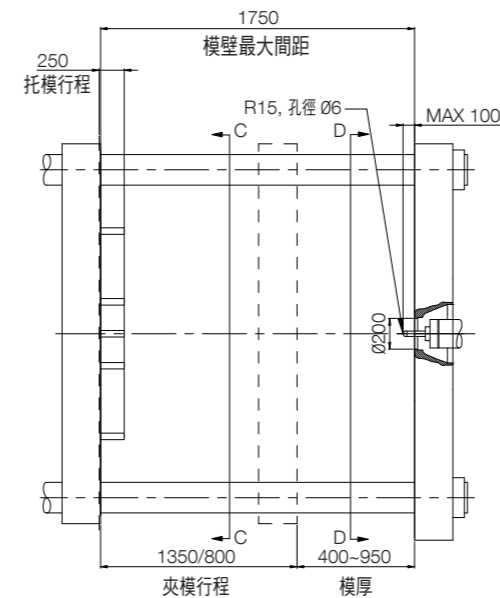
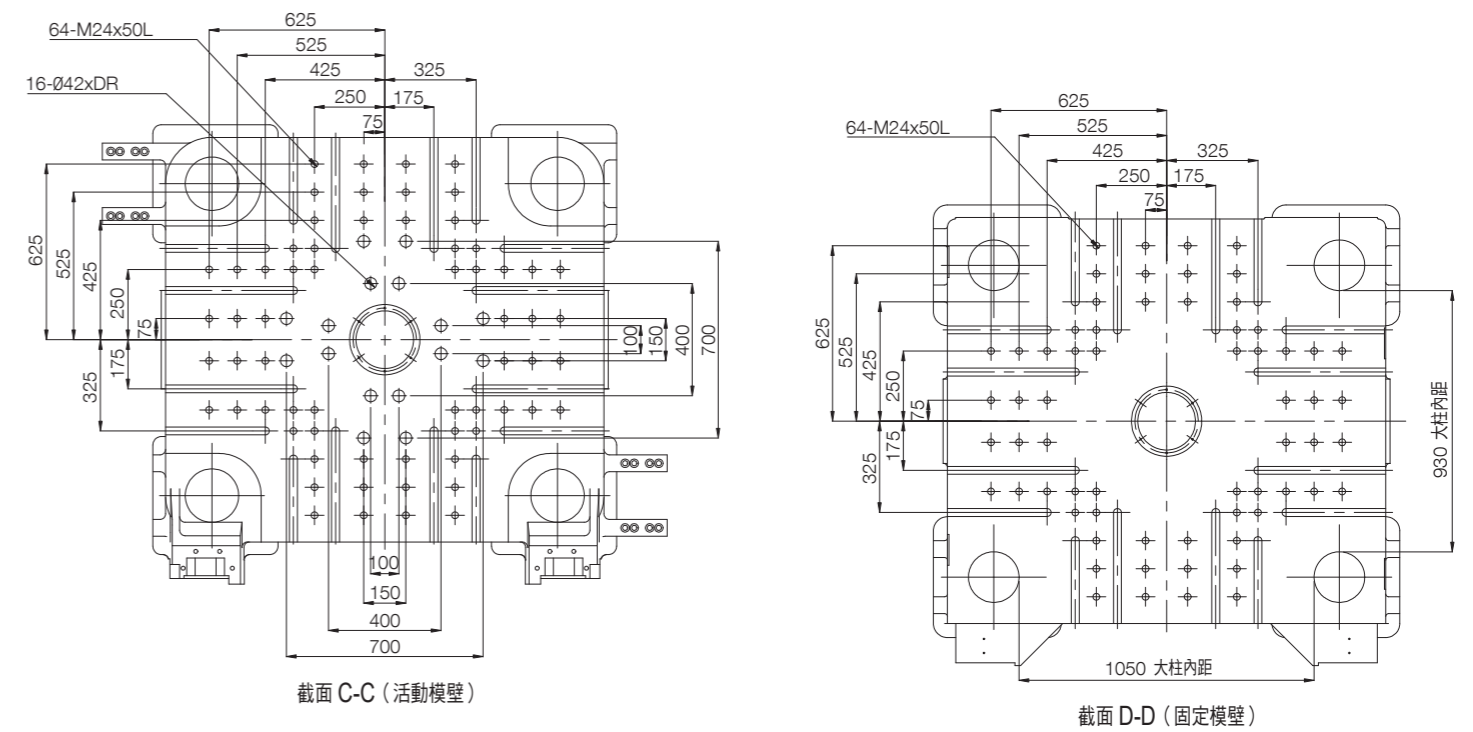
規格表 Specifications

ITEMS		UNIT	LN-700			
射出單元 Injection unit	類型	Type	5900			
	螺桿直徑	Screw diameter	mm	85	95	105
	射出行程	Injection stroke	mm	430		
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	2439	3046	3721
	理論射出量 (PS)	Shot weight of injection (PS)	gram	2219	2772	3387
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2445	1957	1602
	射出速度	Injection speed	mm/sec	97		
射出率	Injection rate	cm <sup>3</sup> /sec	499	624	762	
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf	700		
	夾模行程	Mold clamping stroke	mm	1350/800		
	模厚	Mold thickness	mm	400-950		
	模具最大重量	Maximum weight of mould	tonf	7		
	模壁最大間距	Daylight	mm	1750		
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm	735x650		
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm	1050x930		
電氣單元 Electrical equipment	模盤尺寸 (HxV)	Mould platen (HxV)	mm	1560x1440		
	托模行程	Ejector stroke	mm	250		
	托模力	Ejector force	tonf	11		
	泵浦驅動最大功率	Max. pump driving motor	KW	45*2		
其他 Others	溫度控制器	Temperature controller	(range) set	(0-400 °C)x8		
	電熱容量	Heater capacity	kw	43.77		
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm	8700x3100x2400		
	油箱容量	Oil tank capacity	liter	1380		
	機械重量	Machine weight	metric tons	32		
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140		

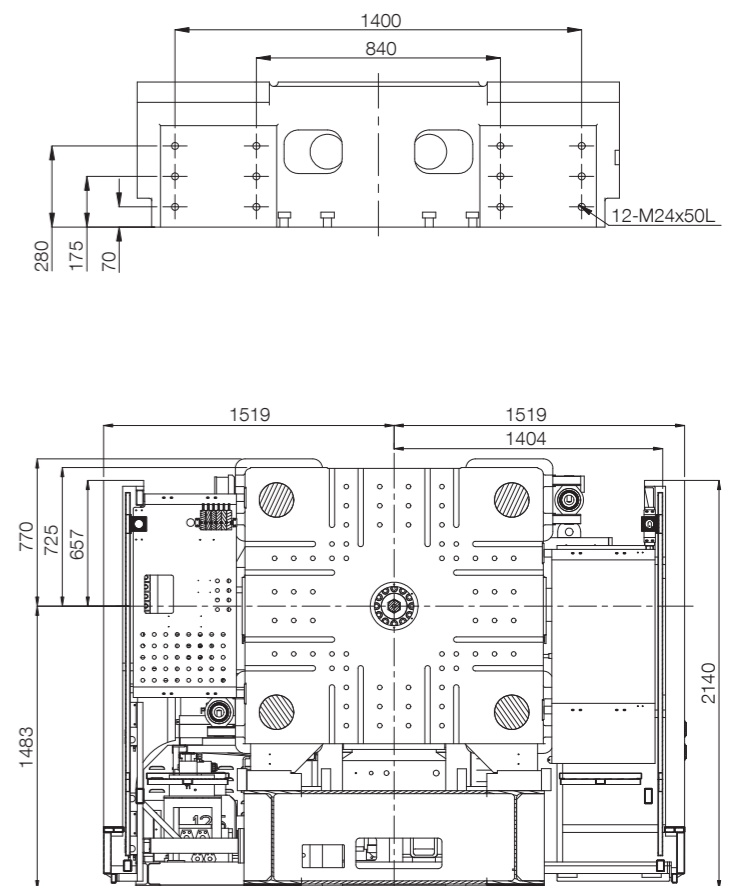
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



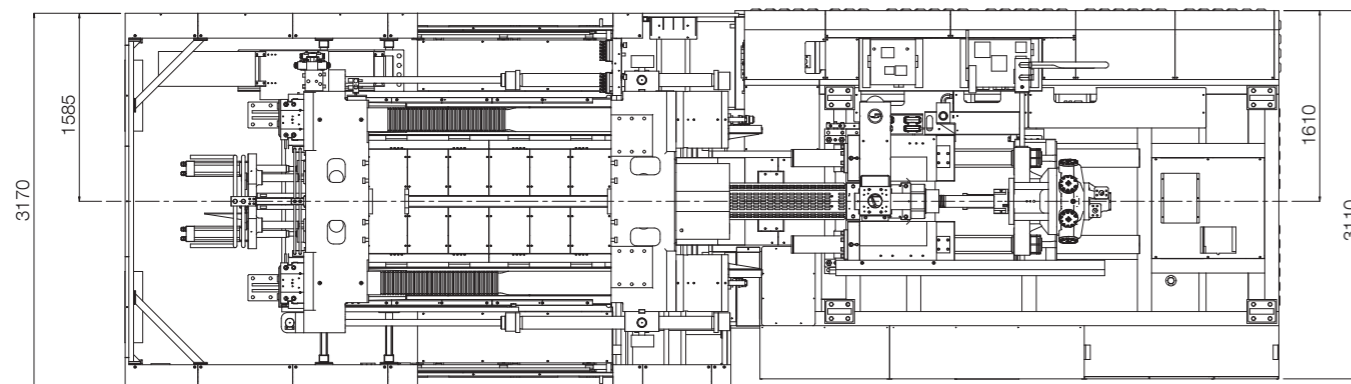
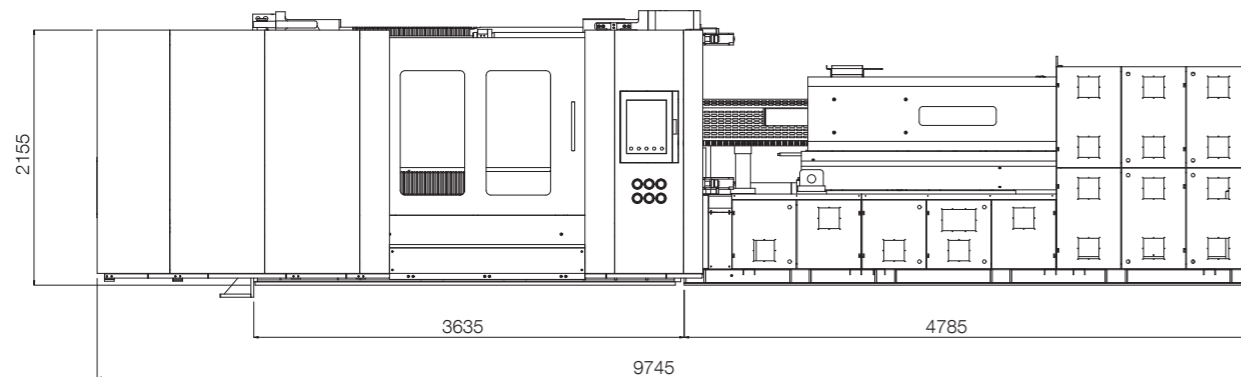
機械手孔位圖 Robot Mounting Hole



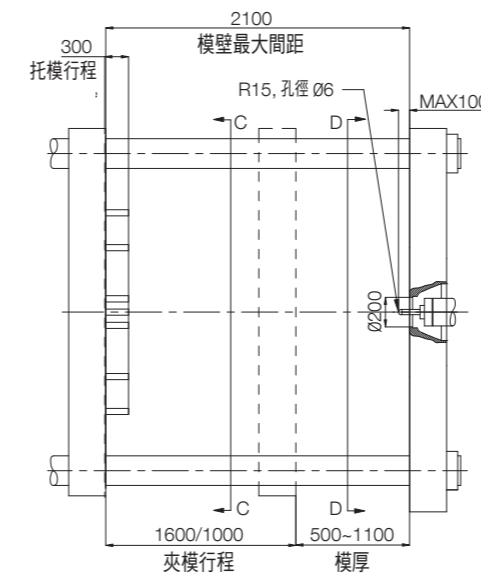
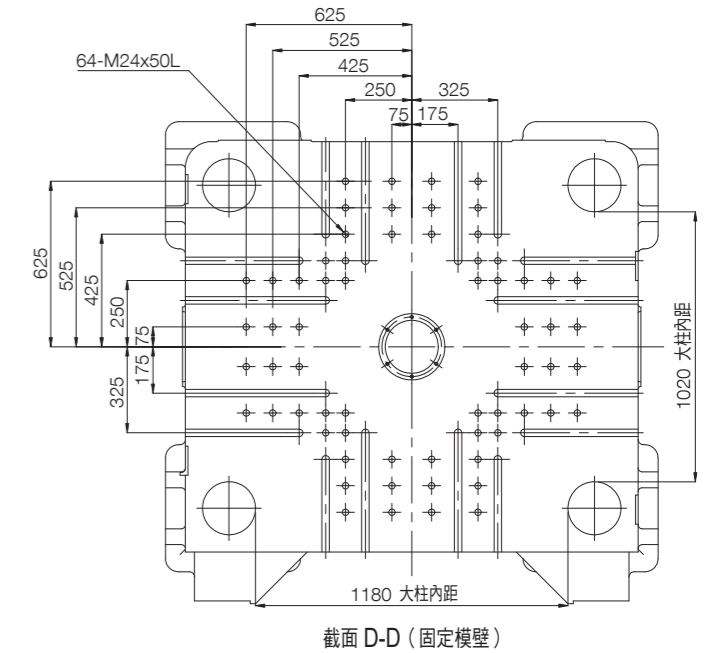
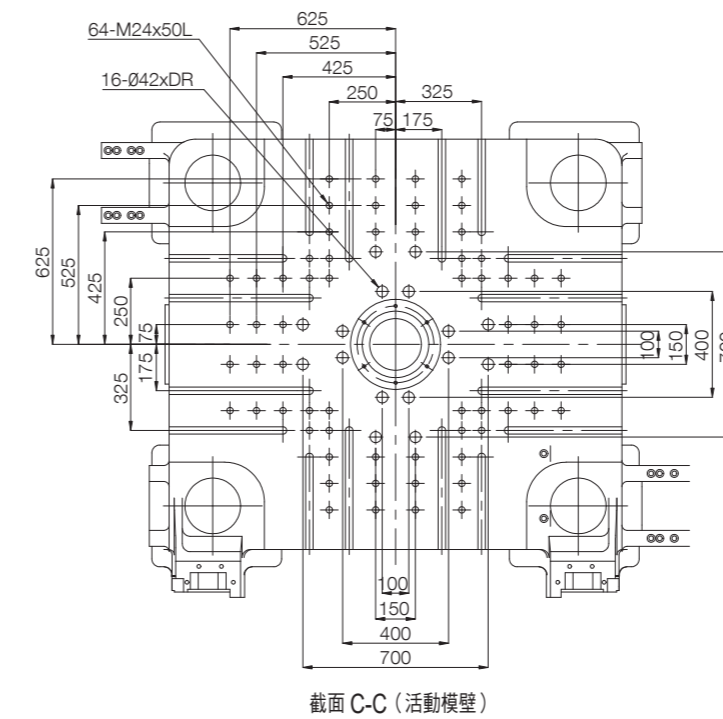
規格表 Specifications

ITEMS		UNIT	LN-900		
射出單元 Injection unit	類型	Type	7000		
	螺桿直徑	Screw diameter	mm	95	100
	射出行程	Injection stroke	mm	450	
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	3188	3533
	理論射出量 (PS)	Shot weight of injection (PS)	gram	2901	3215
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2199	1985
	射出速度	Injection speed	mm/sec	112	
	射出率	Injection rate	cm <sup>3</sup> /sec	722	800
	夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf	
夾模行程		Mold clamping stroke	mm		
模厚		Mold thickness	mm		
模具最大重量		Maximum weight of mould	tonf		
模壁最大間距		Daylight	mm		
建議最小模具尺寸 (HxV)		Suggested min mold dim (HxV)	mm		
大柱內距 (HxV)		Distance between tie bars (HxV)	mm		
模盤尺寸 (HxV)		Mould platen (HxV)	mm		
托模行程		Ejector stroke	mm		
電氣單元 Electrical equipment	托模力	Ejector force	tonf		
	泵浦驅動最大功率	Max. pump driving motor	KW		
	溫度控制器	Temperature controller	(range) set		
其他 Others	電熱容量	Heater capacity	kw		
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm		
	油箱容量	Oil tank capacity	liter		
	機械重量	Machine weight	metric tons		
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>		

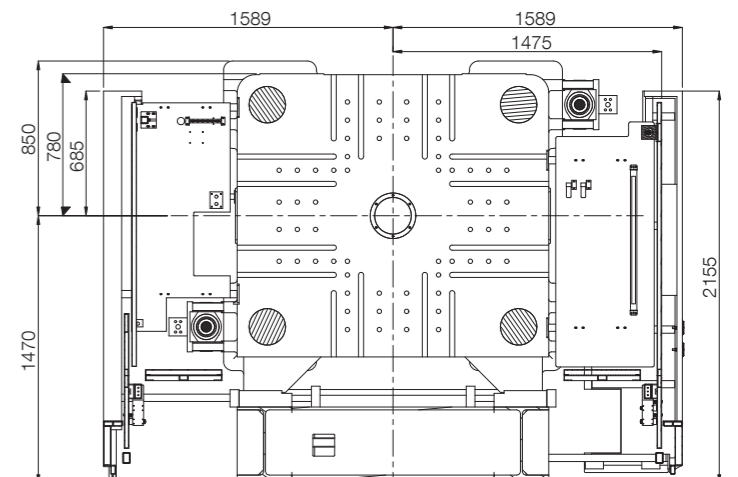
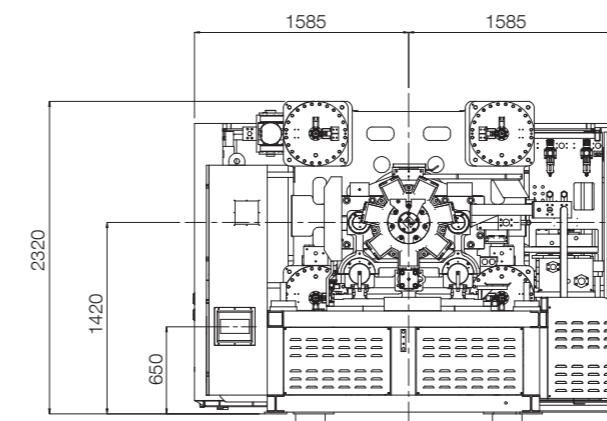
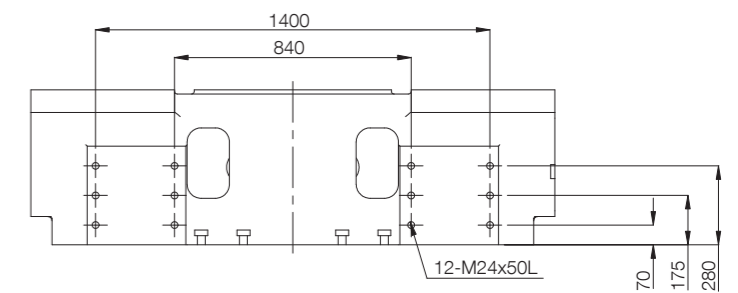
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole



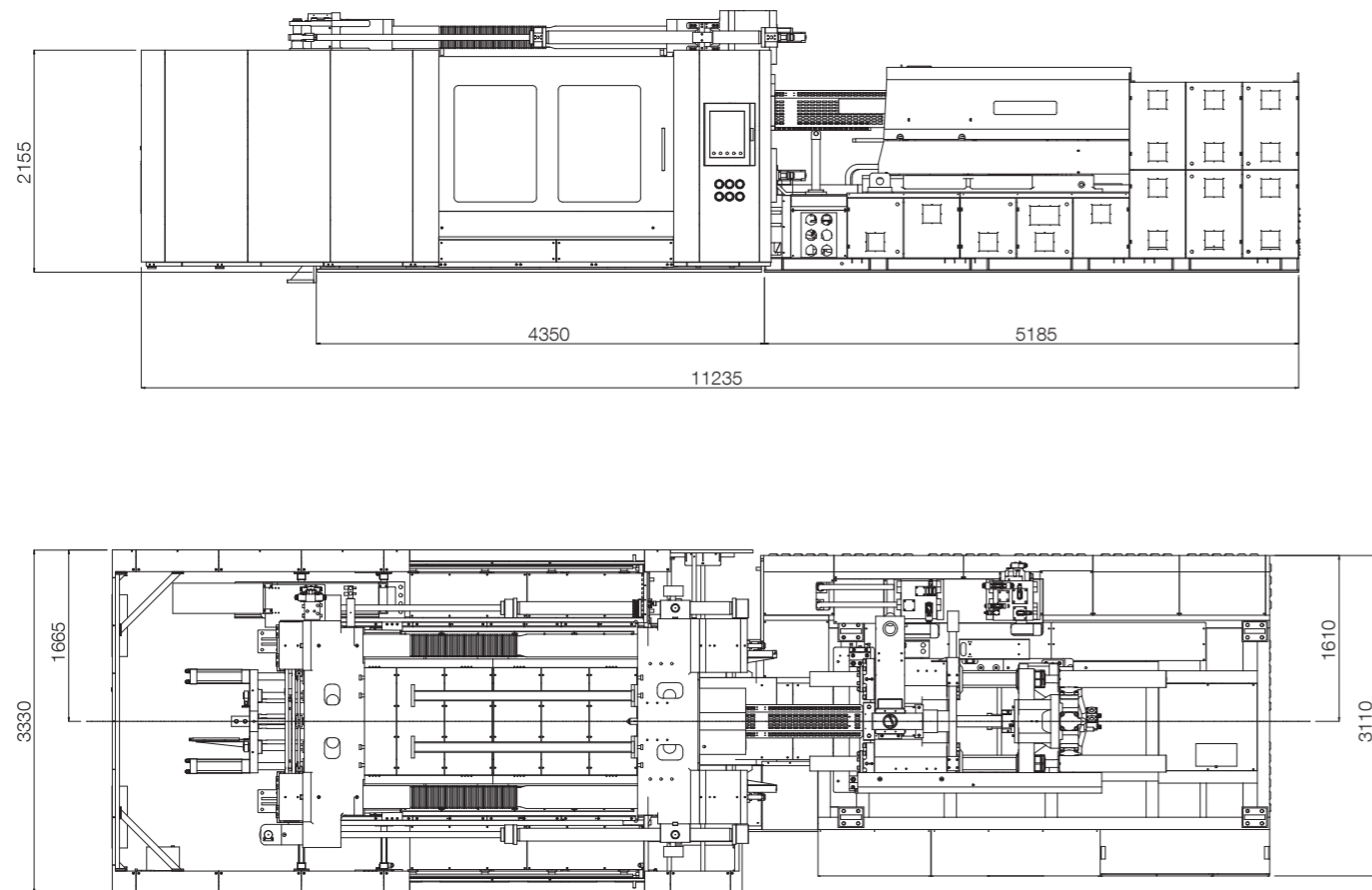


規格表 Specifications

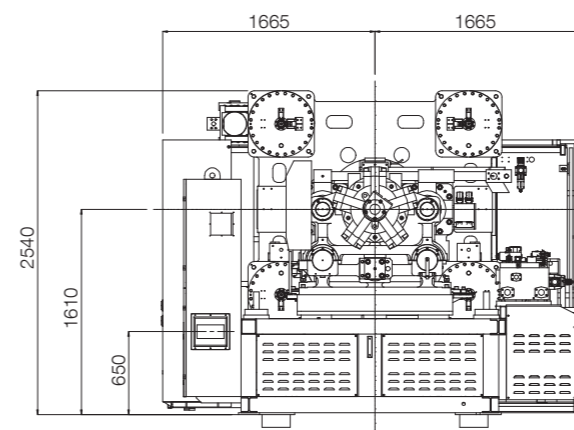
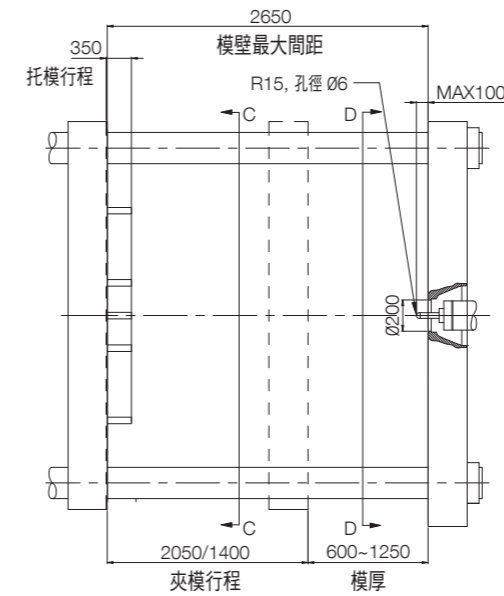
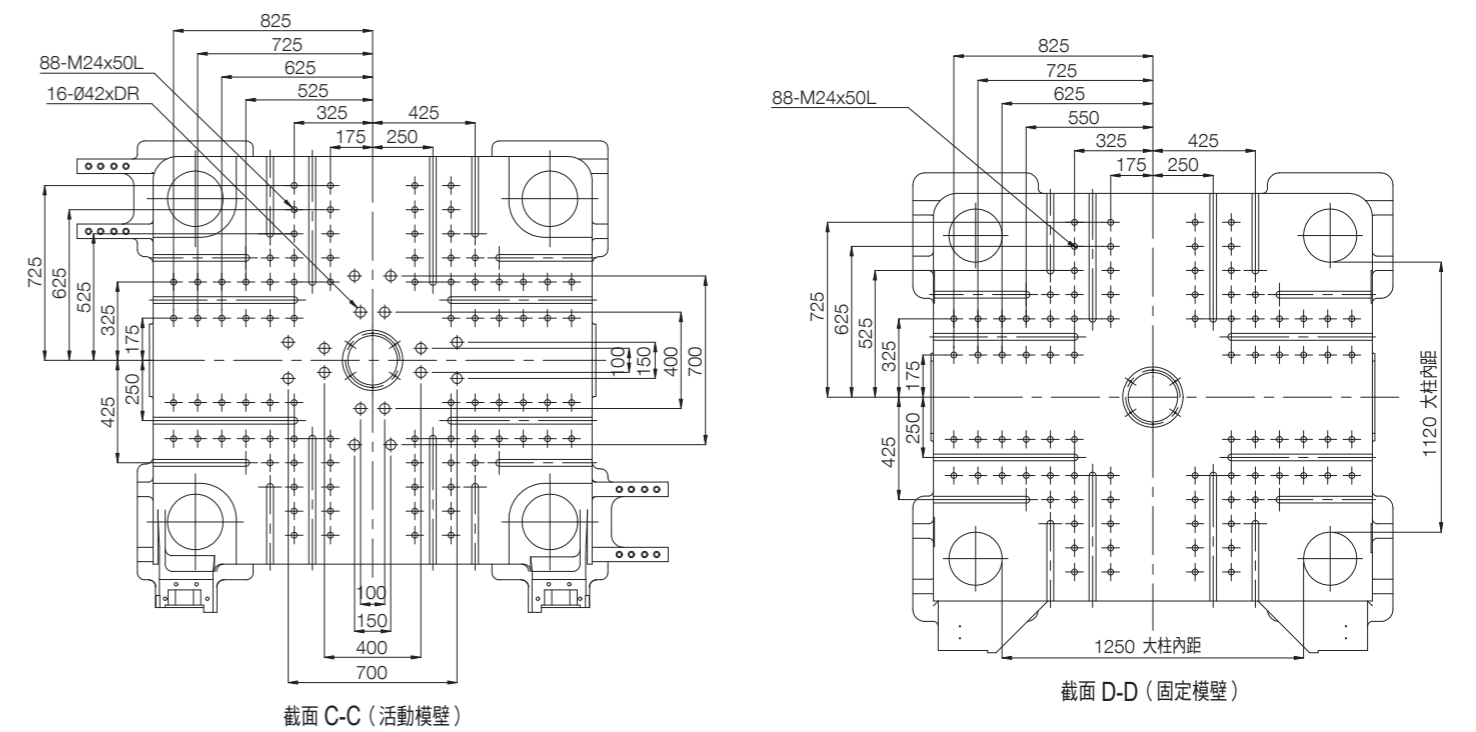
ITEMS	UNIT	LN-1100													
		5900			7000			8200			10300				
射出單元 Injection unit	類型	Type	-												
	螺桿直徑	Screw diameter	mm	85	95	105	95	100	110	100	110	120	110	120	130
	射出行程	Injection stroke	mm	430			450			495			540		
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	2439	3046	3721	3188	3533	4274	3886	4702	5595	5129	6104	7164
	理論射出量 (PS)	Shot weight of injection (PS)	gram	2219	2772	3387	2901	3215	3890	3536	4279	5092	4668	5555	6519
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2445	1957	1602	2199	1985	1640	2117	1749	1470	2008	1687	1438
	射出速度	Injection speed	mm/sec	126			112			105			106		
射出率	Injection rate	cm <sup>3</sup> /sec	649	811	991	722	800	968	750	907	1080	912	1085	1274	
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf	1100											
	夾模行程	Mold clamping stroke	mm	2050/1400											
	模厚	Mold thickness	mm	600~1250											
	模具最大重量	Maximum weight of mould	tonf	13											
	模壁最大間距	Daylight	mm	2650											
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm	875x785											
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm	1250x1120											
模盤尺寸 (HxV)	Mould platen (HxV)	mm	1800x1680												
托模行程	Ejector stroke	mm	350												
托模力	Ejector force	tonf	23.9												
電氣單元 Electrical equipment	泵浦驅動最大功率	Max. pump driving motor	KW	45+30*2			45+30*2			45+30*2			45*3		
	溫度控制器	Temperature controller	(range) set	(0-400 °C)x8			(0-400 °C)x8			(0-400 °C)x8			(0-400 °C)x8		
	電熱容量	Heater capacity	kw	43.77			46.27			51.29			63.38		
其他 Others	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm	11400x3400x2650											
	油箱容量	Oil tank capacity	liter	2250											
	機械重量	Machine weight	metric tons	70											
最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140	140			140			140			140		

□ 綠框內為標準組合 The specification green frame is standard type

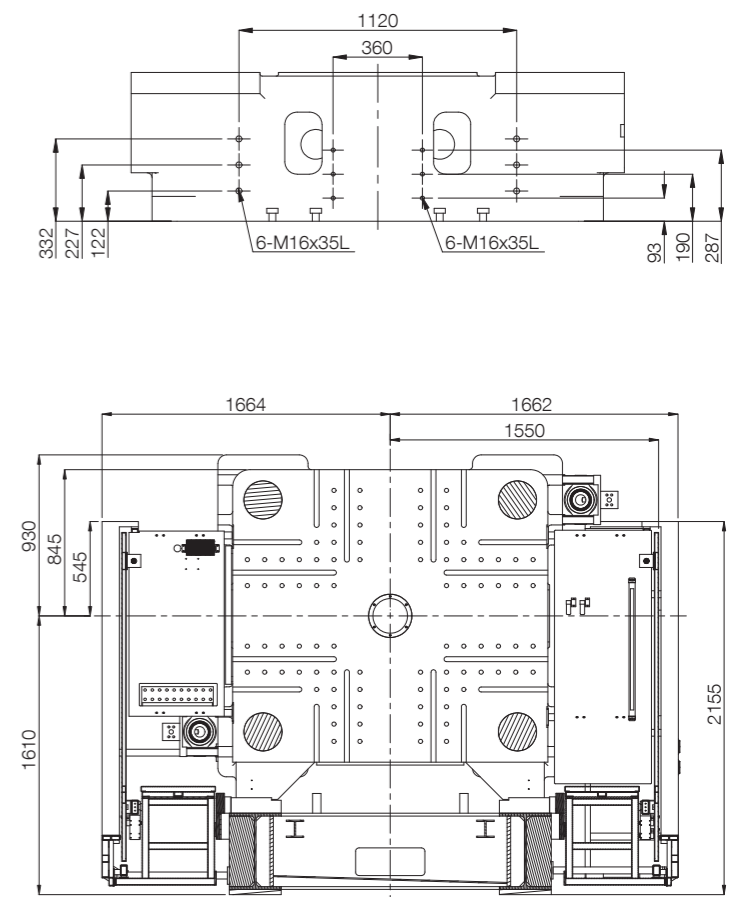
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole

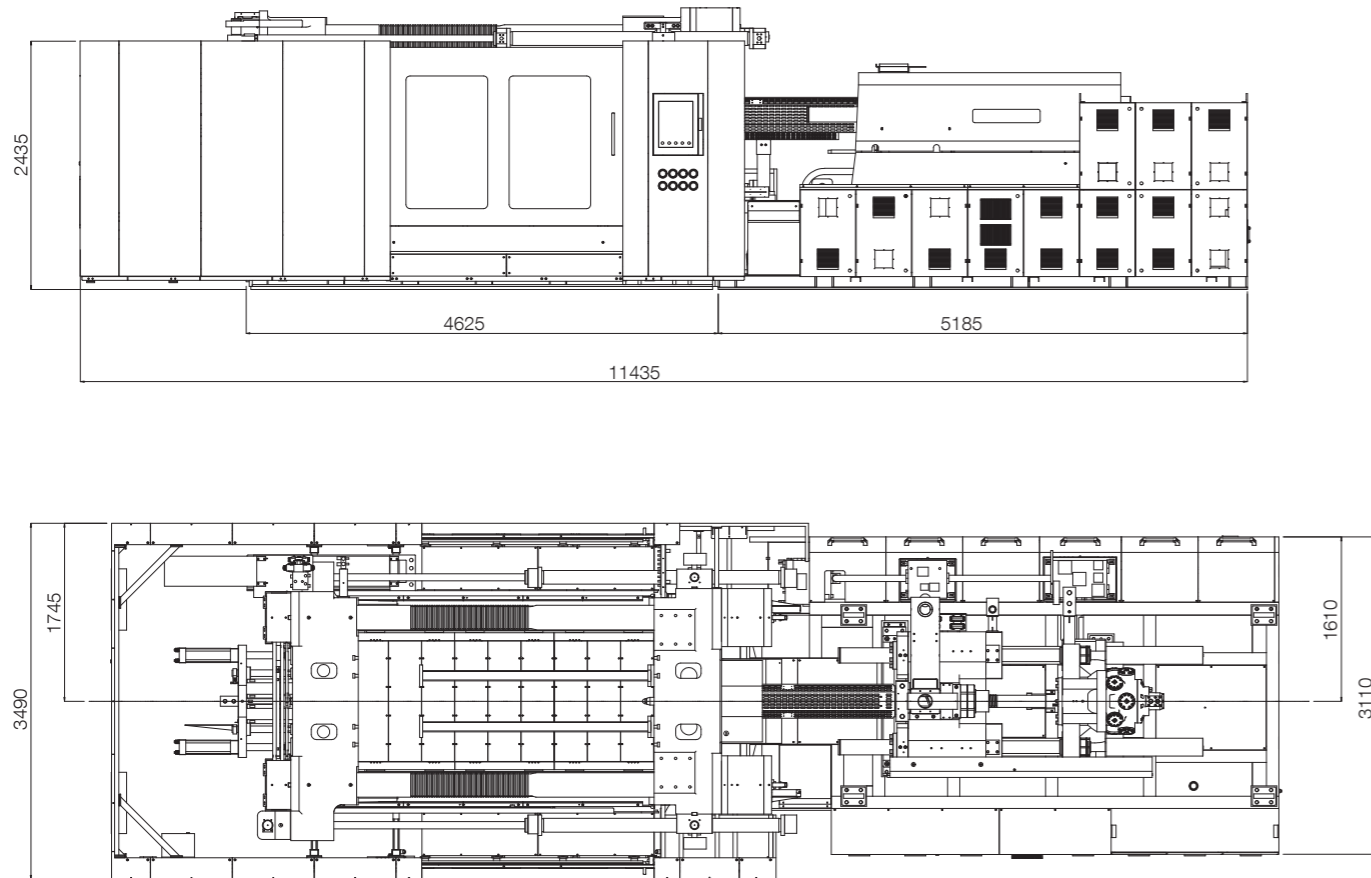


規格表 Specifications

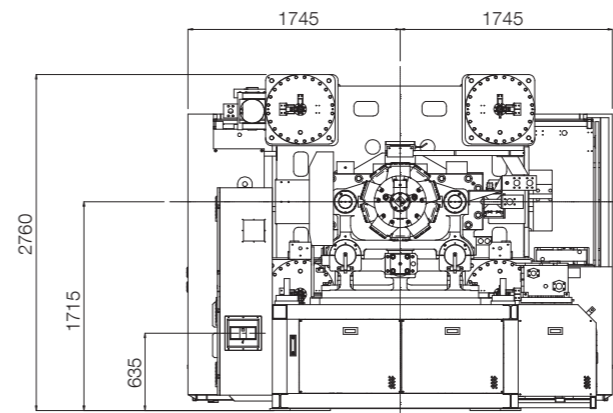
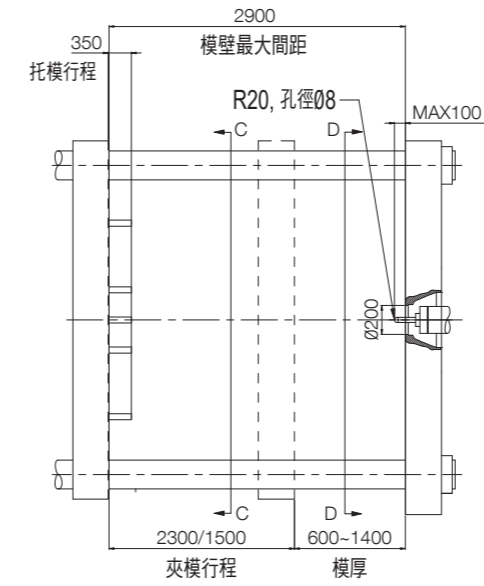
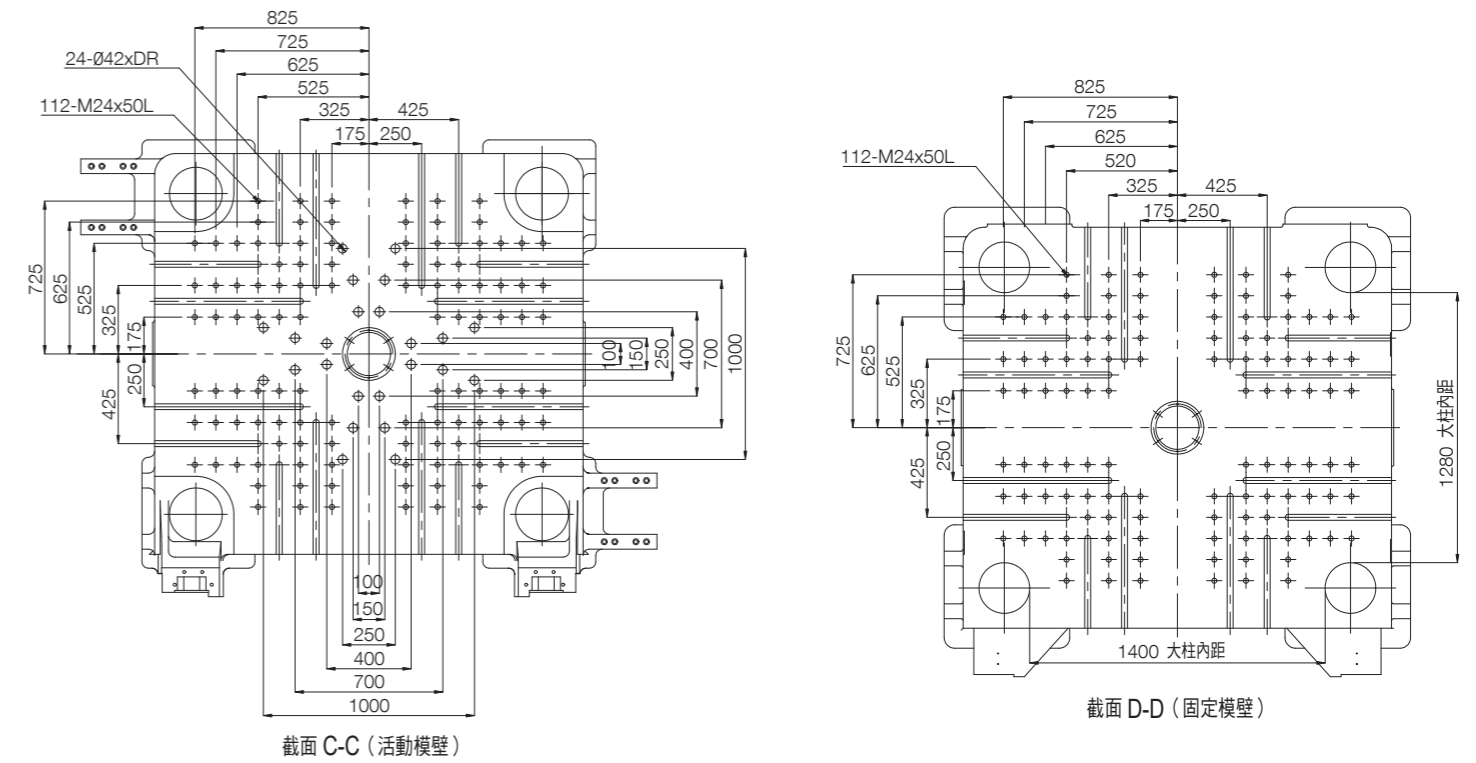
ITEMS	UNIT	LN-1300															
		7000		8200		10300		14600									
射出單元 Injection unit	類型	Type	-														
	螺桿直徑	Screw diameter	mm	95	100	110	1	110	120	110	120	130	130	140	150		
	射出行程	Injection stroke	mm	450				495				540				630	
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	3188	353	4274	3886	4702	5595	5129	610	7164	8358	9693	11127		
	理論射出量 (PS)	Shot weight of injection (PS)	gram	2901	3215	3890	3536	4279	5092	4668	5555	6519	760	8821	10126		
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2199	1985	1640	2117	1749	1470	2008	1687	1438	1750	1509	1314		
	射出速度	Injection speed	mm/sec	120				12				106				104	
射出率	Injection rate	cm <sup>3</sup> /sec	775	858	1038	857	1037	1234	912	1085	1274	1256	1457	1672			
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf											1300			
	夾模行程	Mold clamping stroke	mm											2300/1500			
	模厚	Mold thickness	mm											600~1400			
	模具最大重量	Maximum weight of mould	tonf											19			
	模壁最大間距	Daylight	mm											2900			
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm											980x900			
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm											1400x1280			
模盤尺寸 (HxV)	Mould platen (HxV)	mm											2030x1900				
電氣單元 Electrical equipment	托模行程	Ejector stroke	mm											350			
	托模力	Ejector force	tonf											23.9			
	泵浦驅動最大功率	Max. pump driving motor	KW	45*3				45*3				45*3		45*2+30*2			
	溫度控制器	Temperature controller	(range) set	(0-400 °C)x8				(0-400 °C)x8				(0-400 °C)x8		(0-400 °C)x8			
其他 Others	電熱容量	Heater capacity	kw	46.27				51.29				63.38		76.13			
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm											11600x3550x2900			
	油箱容量	Oil tank capacity	liter											2190			
機械重量	Machine weight	metric tons											75				
最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140				140				140		140				

綠框內為標準組合 The specification green frame is standard type

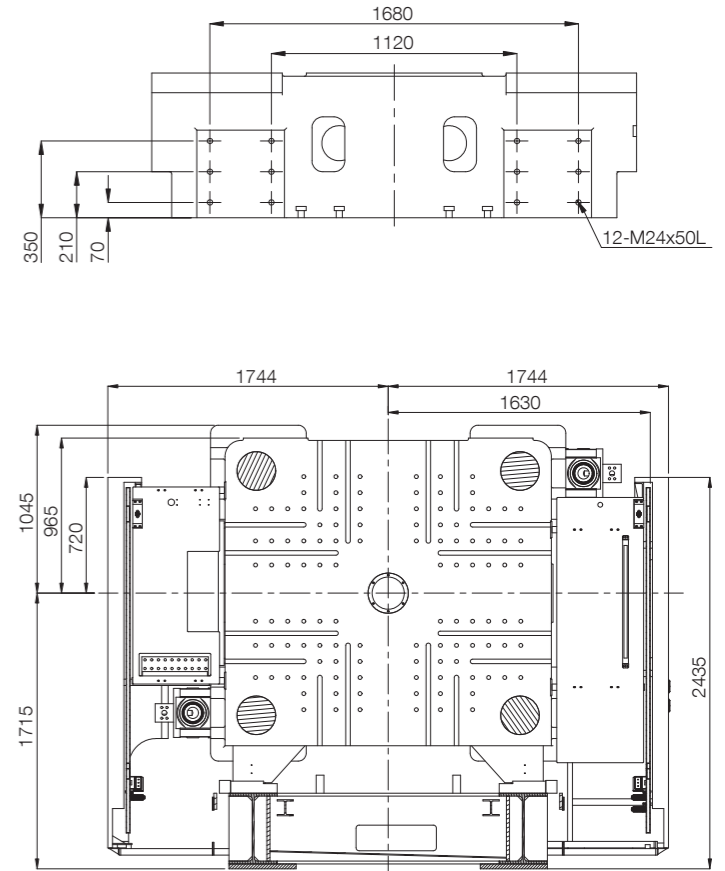
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole



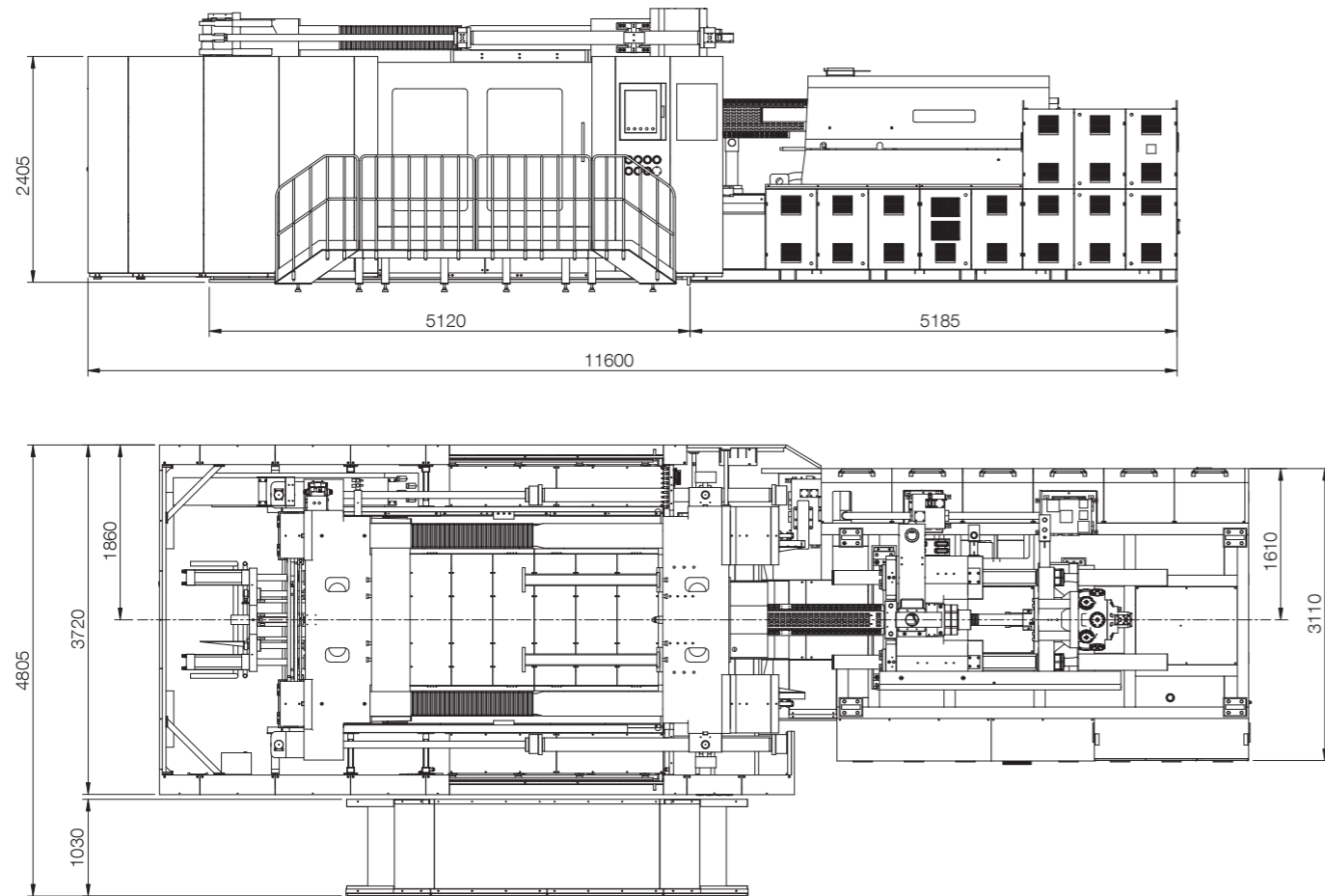


規格表 Specifications

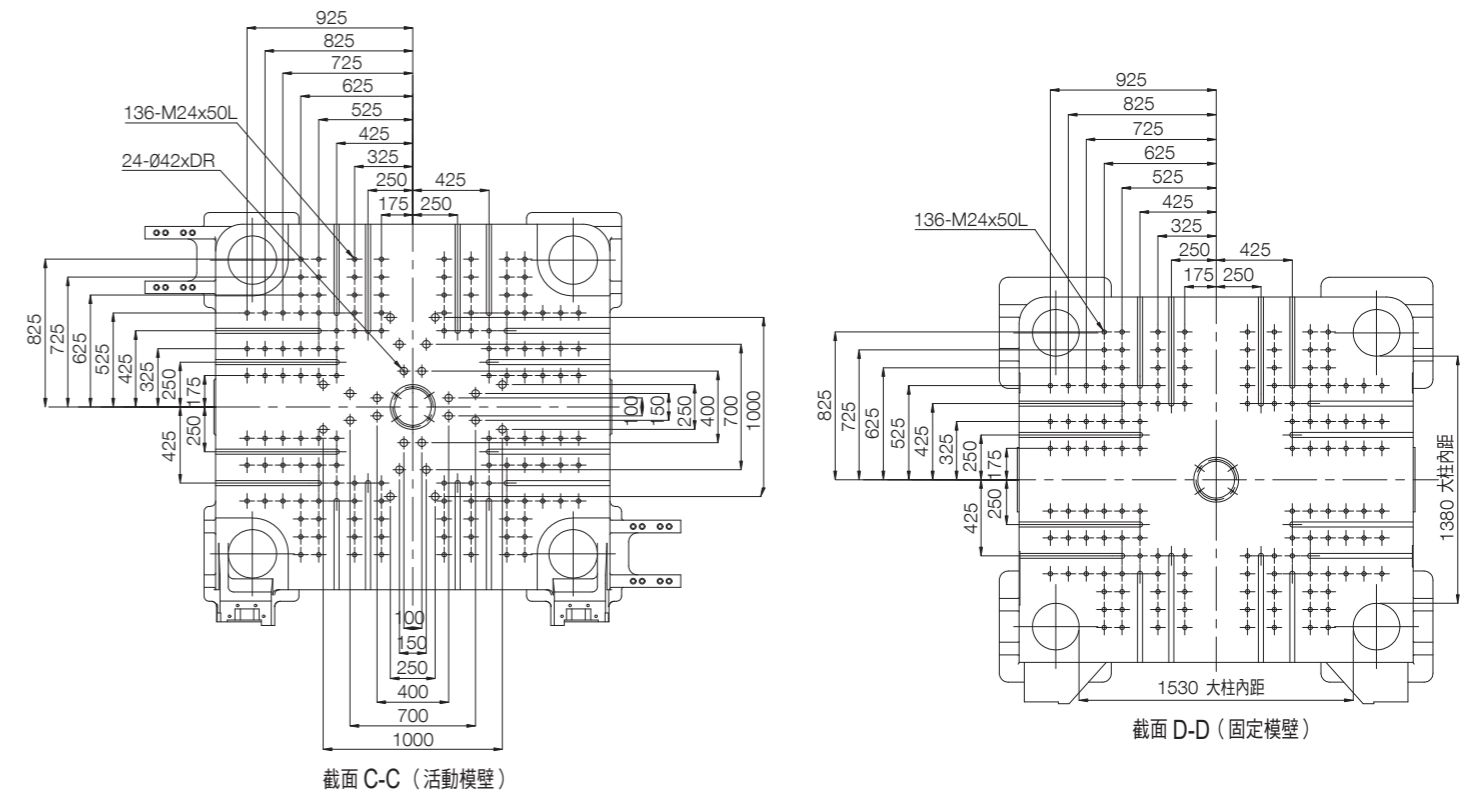
ITEMS	UNIT	LN-1500															
		7000		8200		10300		14600									
射出單元 Injection unit	類型	Type	-														
	螺桿直徑	Screw diameter	mm	95	100	110	1	110	120	110	120	130	130	140	150		
	射出行程	Injection stroke	mm	450				495				540				630	
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	3188	353	4274	3886	4702	5595	5129	610	7164	8358	9693	11127		
	理論射出量 (PS)	Shot weight of injection (PS)	gram	2901	3215	3890	3536	4279	5092	4668	5555	6519	760	8821	10126		
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2199	1985	1640	2117	1749	1470	2008	1687	1438	1750	1509	1314		
	射出速度	Injection speed	mm/sec	120				12				106					
射出率	Injection rate	cm <sup>3</sup> /sec	775	858	1038	857	1037	1234	912	1085	1274	1256	1457	1672			
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf											1500			
	夾模行程	Mold clamping stroke	mm											2400/1600			
	模厚	Mold thickness	mm											700~1500			
	模具最大重量	Maximum weight of mould	tonf											24			
	模壁最大間距	Daylight	mm											3100			
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm											1070x970			
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm											1530x1380			
模盤尺寸 (HxV)	Mould platen (HxV)	mm											2190x2040				
電氣單元 Electrical equipment	托模行程	Ejector stroke	mm											400			
	托模力	Ejector force	tonf											36.9			
	泵浦驅動最大功率	Max. pump driving motor	KW	45*3				45*3				45*3		45*2+30*2			
其他 Others	溫度控制器	Temperature controller	(range) set	(0-400℃)x8				(0-400℃)x8				(0-400℃)x8		(0-400℃)x9			
	電熱容量	Heater capacity	kw	46.27				51.29				63.38		76.13			
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm											11800x3800x3100			
	油箱容量	Oil tank capacity	liter											2090			
最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140				140				140		140				

綠框內為標準組合 The specification green frame is standard type

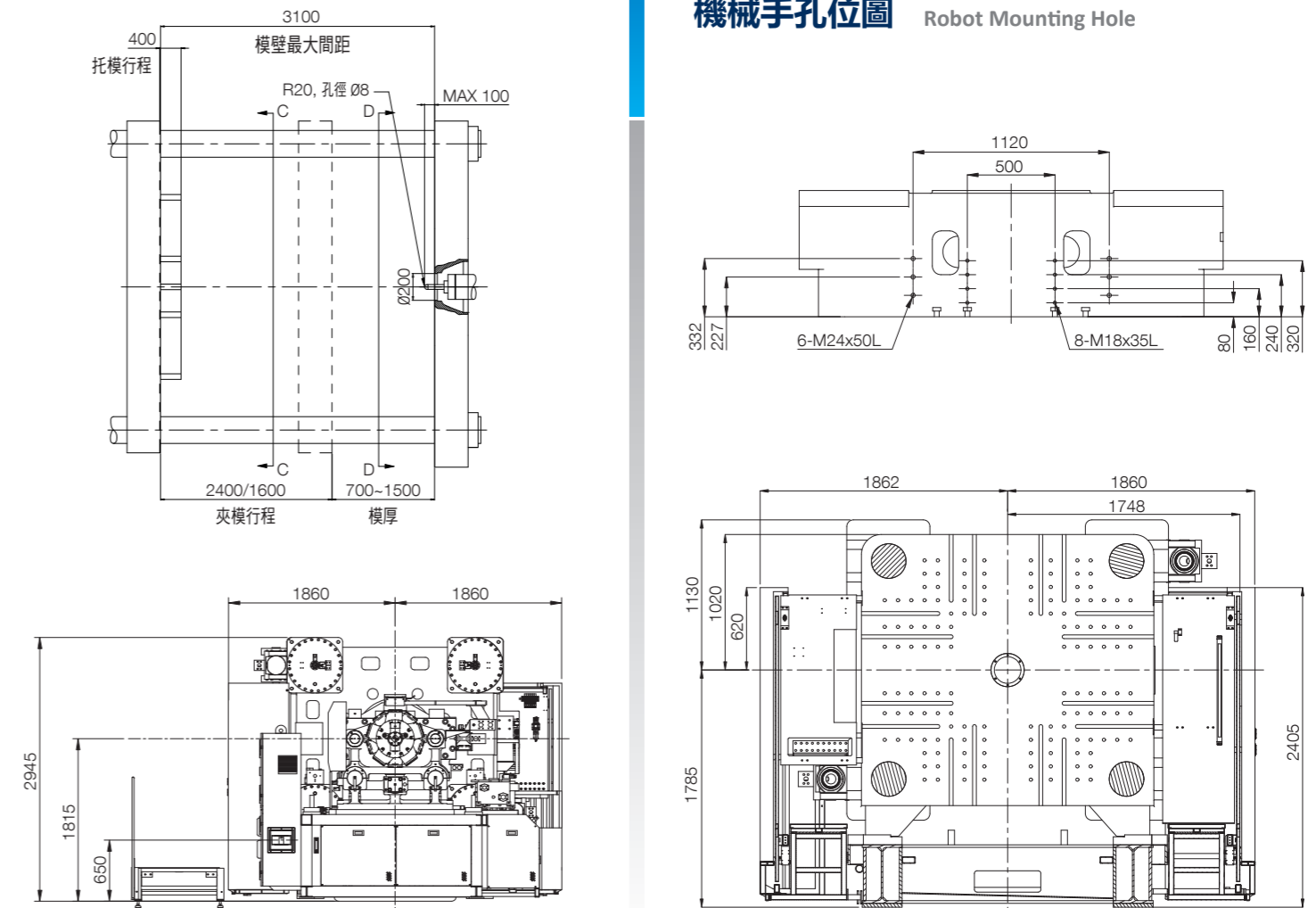
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole

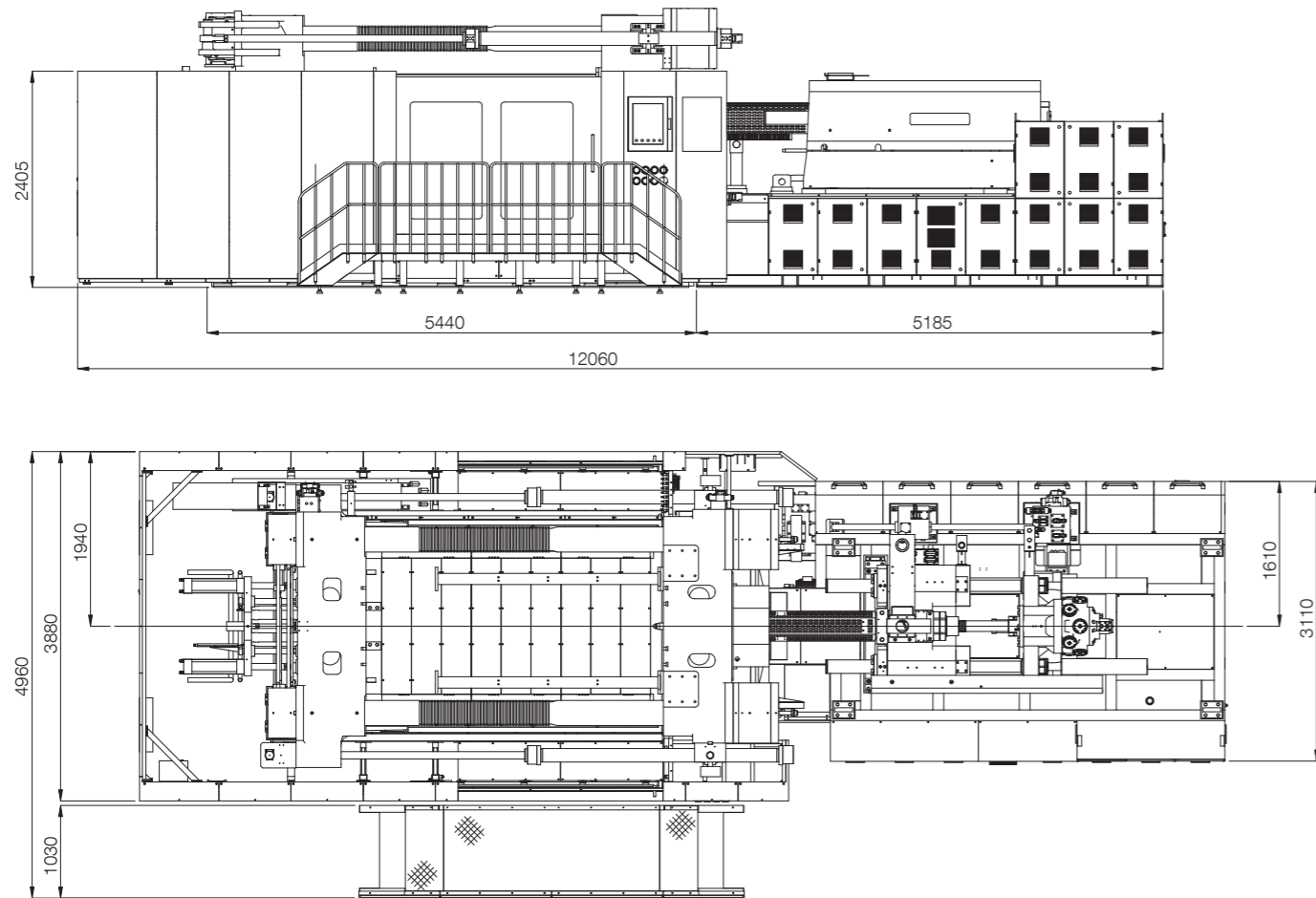


規格表 Specifications

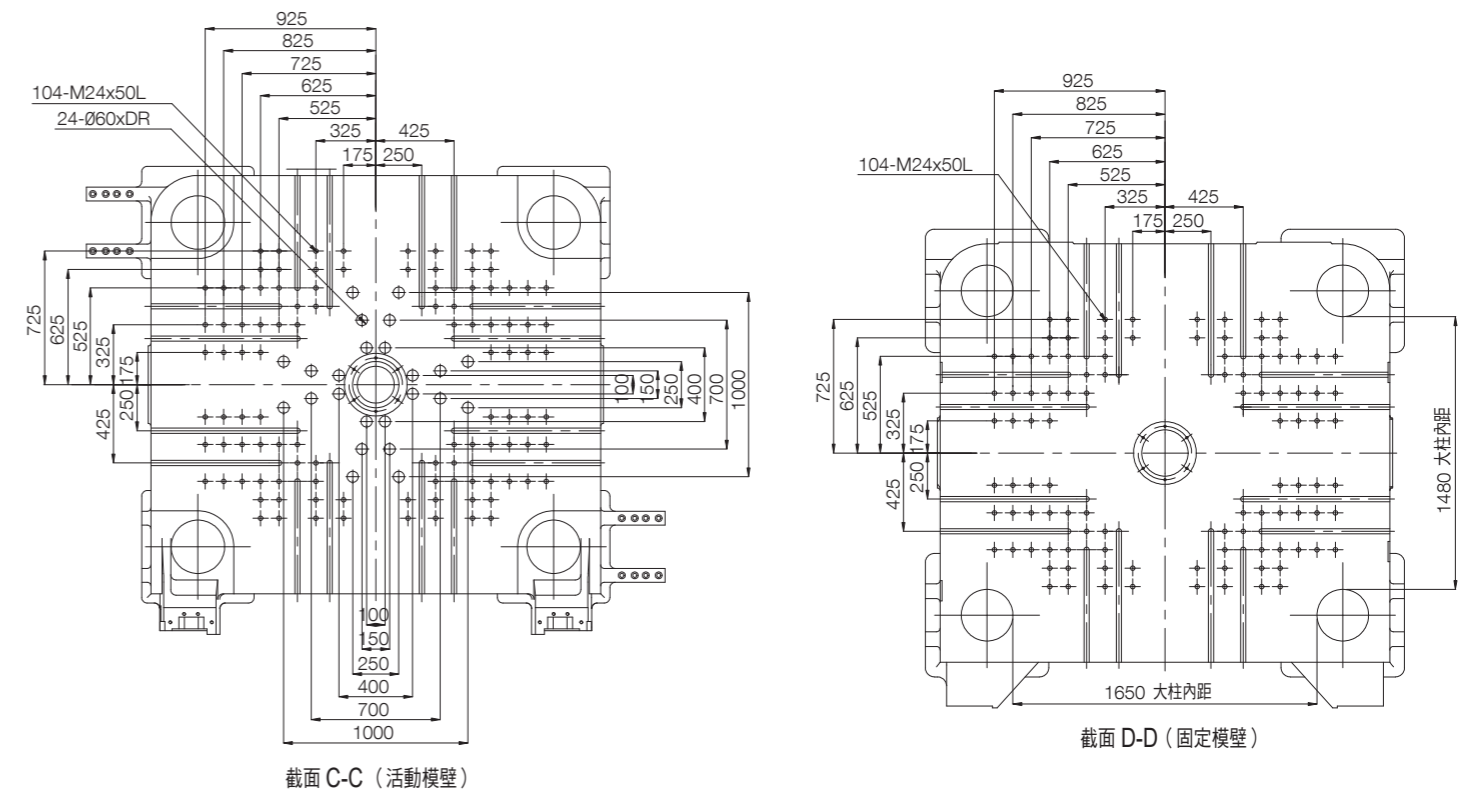
ITEMS			UNIT	LN-1700																													
類別	Type	-	7000					8200					10300					14600					22100										
			射出單元 Injection unit	螺桿直徑	Screw diameter	mm	95	100	110	100	110	120	110	120	130	130	140	150	140	150	165	95	100	110	100	110	120	110	120	130	130	140	150
	射出行程	Injection stroke	mm	450					495					540					630					750									
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	3188	353	4274	3886	4702	5595	5129	610	7164	8358	9693	11127	1154	13247	16029	3188	353	4274	3886	4702	5595	5129	610	7164	8358	9693	11127	1154	13247	16029
	理論射出量 (PS)	Shot weight of injection (PS)	gram	2901	3215	3890	3536	4279	5092	4668	5555	6519	760	8821	10126	10501	12055	14586	2901	3215	3890	3536	4279	5092	4668	5555	6519	760	8821	10126	10501	12055	14586
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2199	1985	1640	2117	1749	1470	2008	1687	1438	1750	1509	1314	192	1673	1382	2199	1985	1640	2117	1749	1470	2008	1687	1438	1750	1509	1314	192	1673	1382
	射出速度	Injection speed	mm/sec	127															128					104					91				
	射出率	Injection rate	cm <sup>3</sup> /sec	820	908	109	914	1105	1316	1094	1302	1529	1256	1457	1672	1272	1460	1767	820	908	109	914	1105	1316	1094	1302	1529	1256	1457	1672	1272	1460	1767
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf																1700														
	夾模行程	Mold clamping stroke	mm																2600/1700														
	模厚	Mold thickness	mm																700~1600														
	模具最大重量	Maximum weight of mould	tonf																30														
	模壁最大間距	Daylight	mm																3300														
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm																1155x1040														
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm																1650x1480														
電氣單元 Electrical equipment	溫度控制器	Temperature controller	(range) set	(0-400℃)x8					(0-400℃)x8					(0-400℃)x8					(0-400℃)x9					(0-400℃)x9									
	電熱容量	Heater capacity	kw	46.27					51.29					63.38					76.13					113.2									
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm																12300x4000x3250														
	油箱容量	Oil tank capacity	liter																2280														
	托模行程	Ejector stroke	mm																400														
其他 Others	托模力	Ejector force	tonf																36.9														
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140					140					140					140					140									

綠框內為標準組合 The specification green frame is standard type

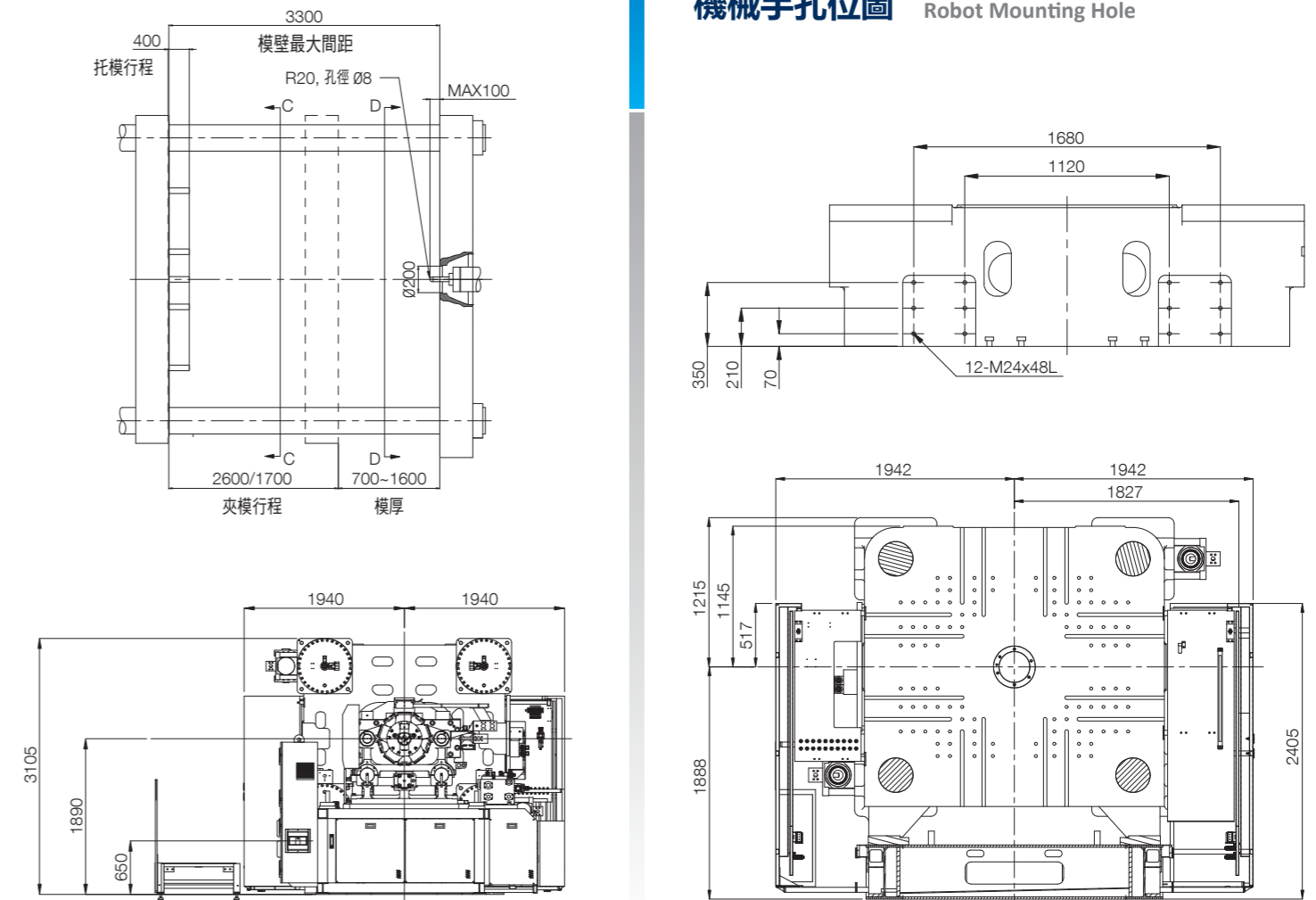
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole



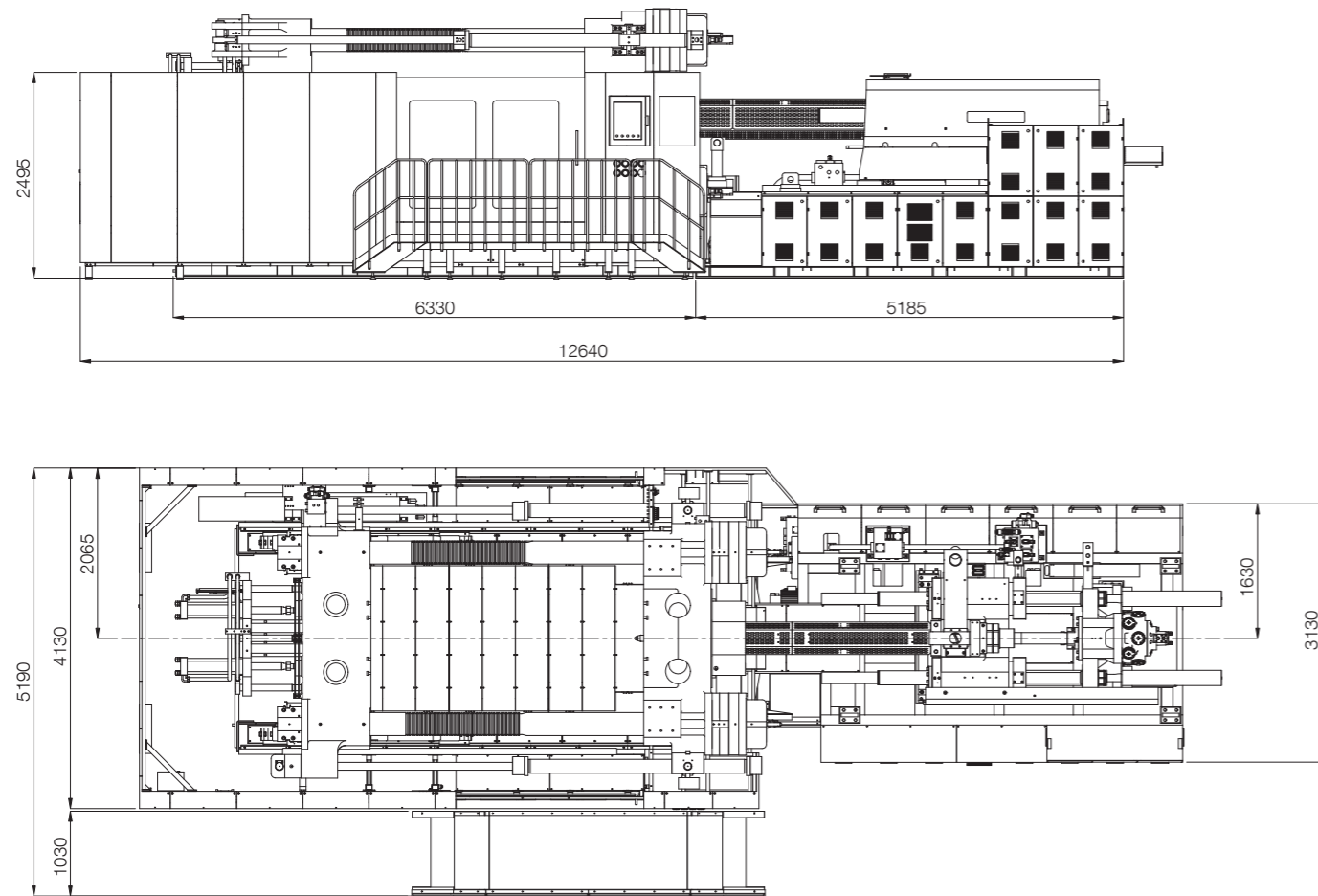


規格表 Specifications

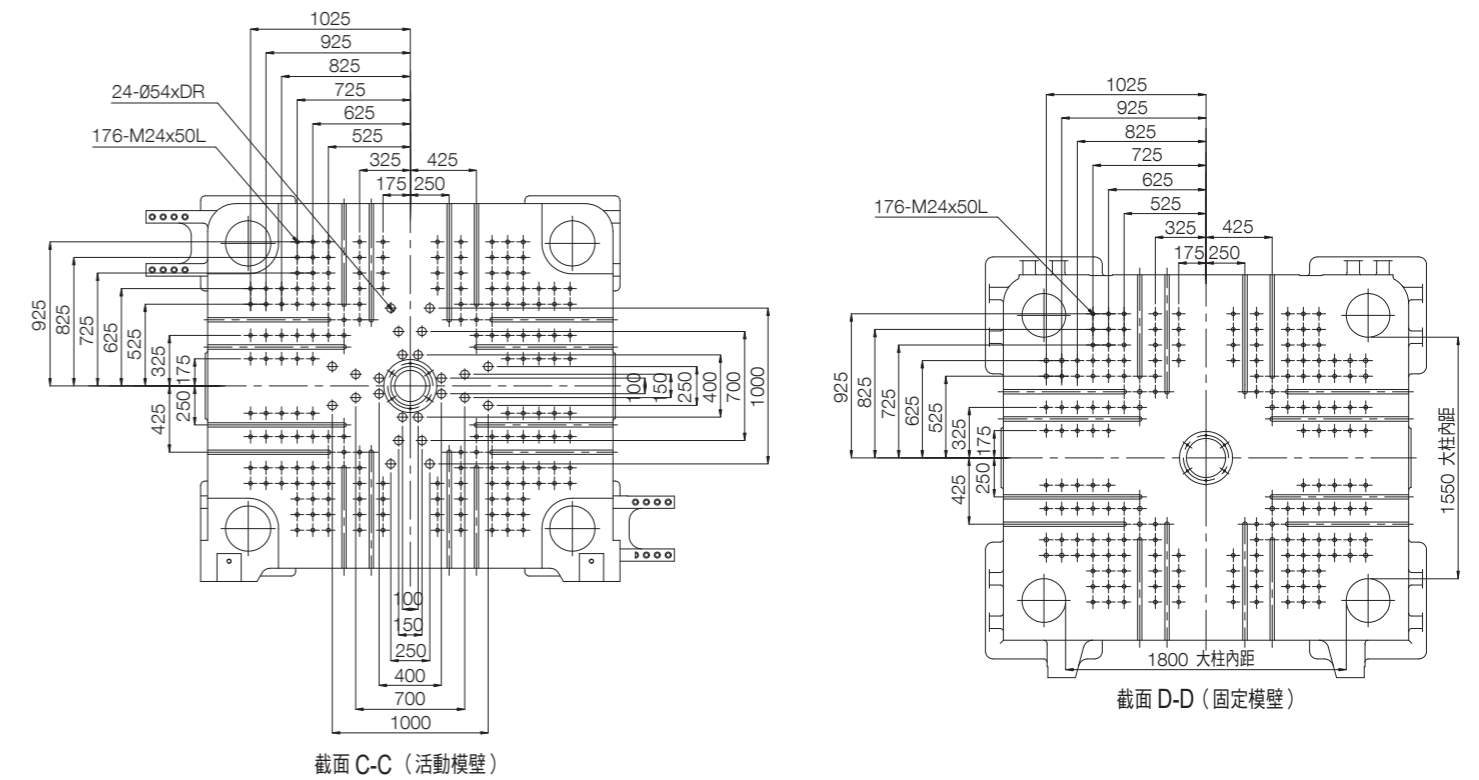
ITEMS			UNIT	LN-1900																																		
類別	Type	-	8200					10300					14600					22100					30900															
			射出單元 Injection unit	螺桿直徑	Screw diameter	mm	100	110	120	110	120	130	130	140	150	140	150	165	170	180	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320			
	射出行程	Injection stroke	mm	495					540					630					750					930														
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	3886	4702	5595	5129	6104	7164	8358	9693	11127	11540	13247	16029	21098	23654	26210	28766	31322	33878	36434	38990	41546	44102	46658	49214	51770	54326	56882	59438	61994						
	理論射出量 (PS)	Shot weight of injection (PS)	gram	3536	4279	5092	4668	5555	6519	7606	8821	10126	10501	12055	14586	19200	21525	23850	26175	28500	30825	33150	35475	37800	40125	42450	44775	47100	49425	51750	54075	56400						
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2117	1749	1470	2008	1687	1438	1750	1509	1314	1920	1673	1382	1511	1348	1185	1022	859	1091	928	765	897	734	571	703	540	377	509	346	183						
	射出速度	Injection speed	mm/sec	128															127					104					91					94				
	射出率	Injection rate	cm <sup>3</sup> /sec	914	1105	1316	1094	1302	1529	1256	1457	1672	1272	1460	1767	1939	2174	2409	2644	2879	3114	3349	3584	3819	4054	4289	4524	4759	4994	5229	5464	5699						
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf																1900																			
	夾模行程	Mold clamping stroke	mm																2600/1700																			
	模厚	Mold thickness	mm																700~1600																			
	模具最大重量	Maximum weight of mould	tonf																35																			
	模壁最大間距	Daylight	mm																3300																			
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm																1260x1085																			
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm																1800x1550																			
電氣單元 Electrical equipment	溫度控制器	Temperature controller	(range) set	(0-400 °C)x8					(0-400 °C)x8					(0-400 °C)x9					(0-400 °C)x9					(0-400 °C)x10														
	電熱容量	Heater capacity	kw	51.29					63.38					76.13					113.2					150														
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm																13500x4200x3400																			
	油箱容量	Oil tank capacity	liter																2570																			
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140					140					140					140					140														

綠框內為標準組合 The specification green frame is standard type

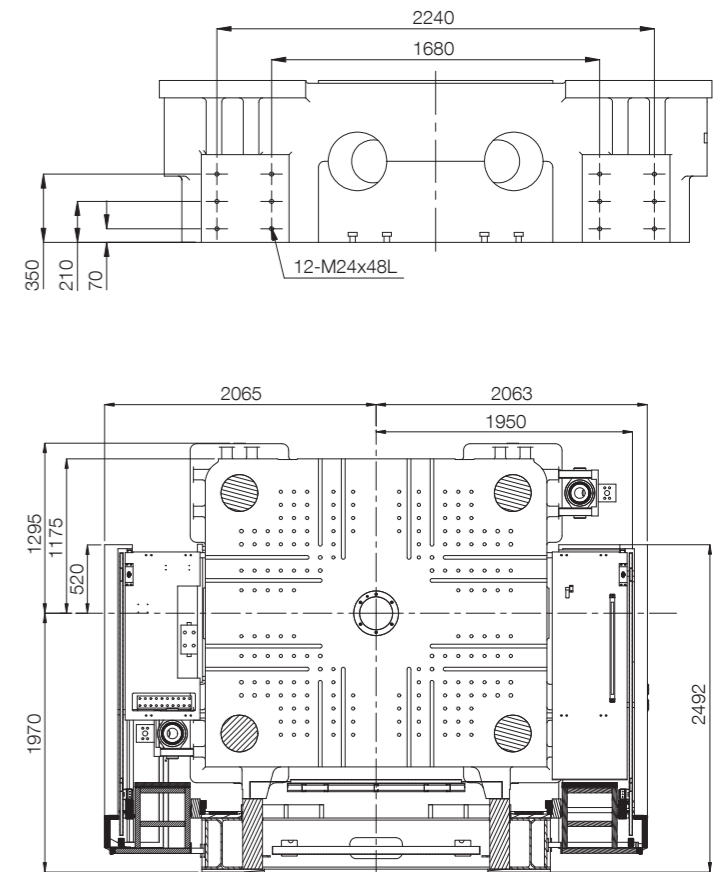
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole

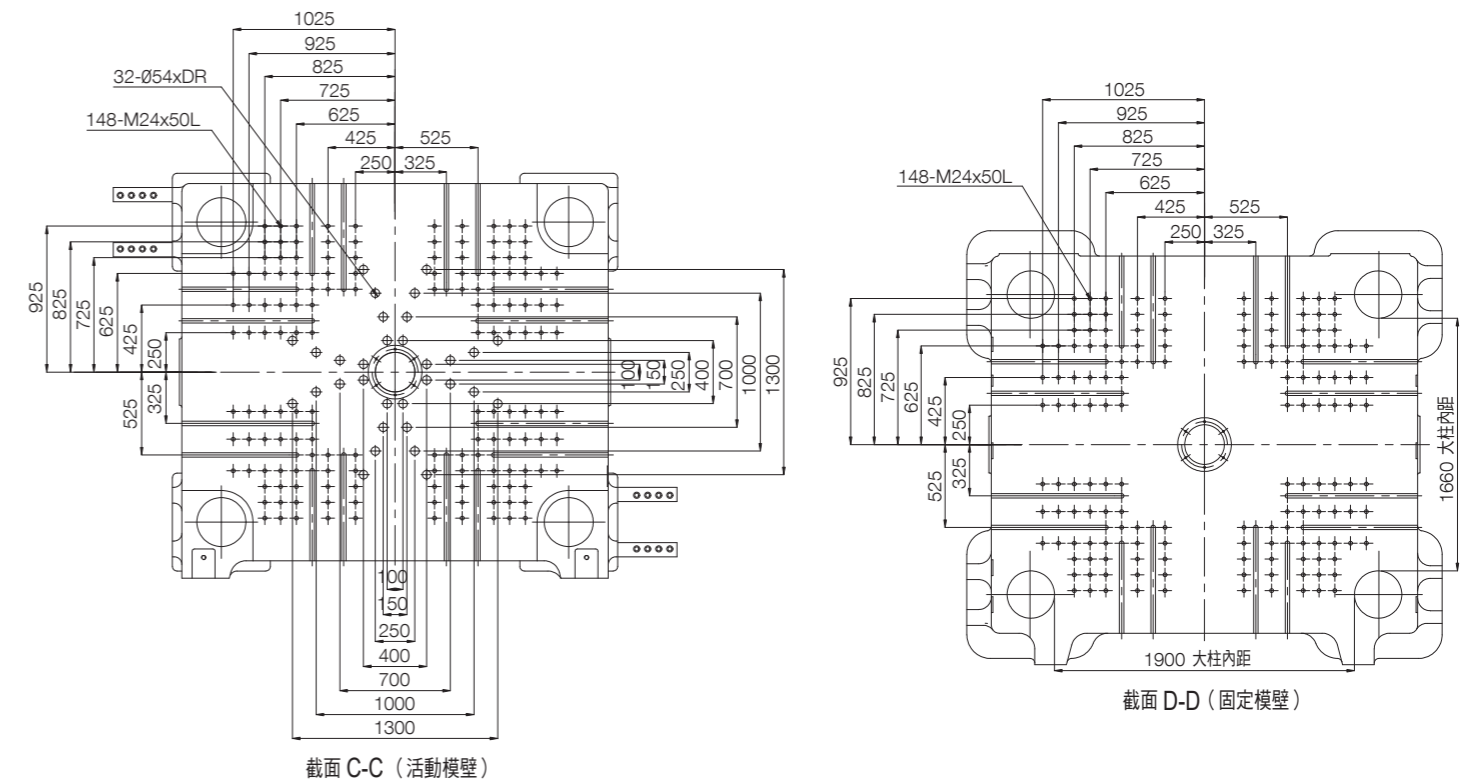


規格表 Specifications

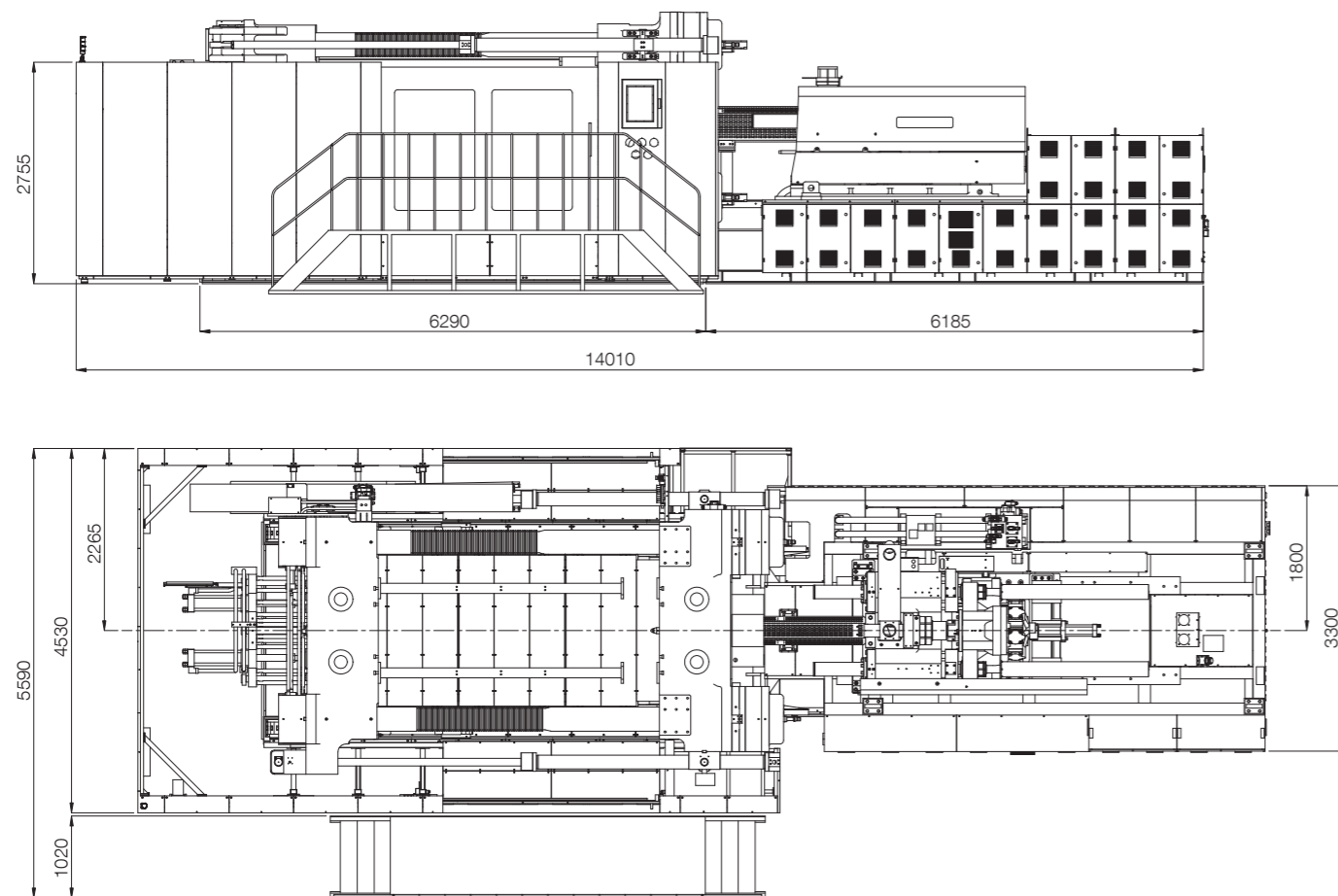
ITEMS		UNIT	LN-2100											
類型	Type	-	10300			14600			22100			30900		39400
			螺桿直徑	Screw diameter	mm	110	120	130	130	140	150	140	150	165
射出行程	Injection stroke	mm	540			630			750			930		1000
理論射出容積	Theoretical shot volume	cm <sup>3</sup>	5129	6104	7164	8358	9693	11127	11540	13247	16029	21098	23654	28339
理論射出量 (PS)	Shot weight of injection (PS)	gram	4668	5555	6519	7606	8821	10126	10501	12055	14586	19200	21525	25788
射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	2008	1687	1438	1750	1509	1314	1920	1673	1382	1511	1348	1390
射出速度	Injection speed	mm/sec	118						91			94		85
射出率	Injection rate	cm <sup>3</sup> /sec	1021	1216	1427	1396	1619	1858	1272	1460	1767	1939	239	2196
閉模力	Mold clamping force	tonf							2100					
夾模行程	Mold clamping stroke	mm							2800/1700					
模厚	Mold thickness	mm							700~1800					
模具最大重量	Maximum weight of mould	tonf							42					
模壁最大間距	Daylight	mm							3500					
建議最小模具尺寸 (H×V)	Suggested min mold dim (H×V)	mm							1330x1120					
大柱內距 (H×V)	Distance between tie bars (H×V)	mm							1900x1600					
模盤尺寸 (H×V)	Mould platen (H×V)	mm							2700x2390					
托模行程	Ejector stroke	mm							450					
托模力	Ejector force	tonf							46.2					
泵浦驅動最大功率	Max. pump driving motor	KW	45*4			45*4			45*4			45*4+30		45*5
溫度控制器	Temperature controller	(range) set	(0-400℃)x8			(0-400℃)x9			(0-400℃)x9			(0-400℃)x10		(0-400℃)x10
電熱容量	Heater capacity	kw	63.38			76.13			113.2			150		175
機械尺寸 (L×W×H)	Machine dimensions (L×W×H)	mm							14100x4600x3510					
油箱容量	Oil tank capacity	liter							3740					
機械重量	Machine weight	metric tons							110					
最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140			140			140			140		140

□ 綠框內為標準組合 The specification green frame is standard type

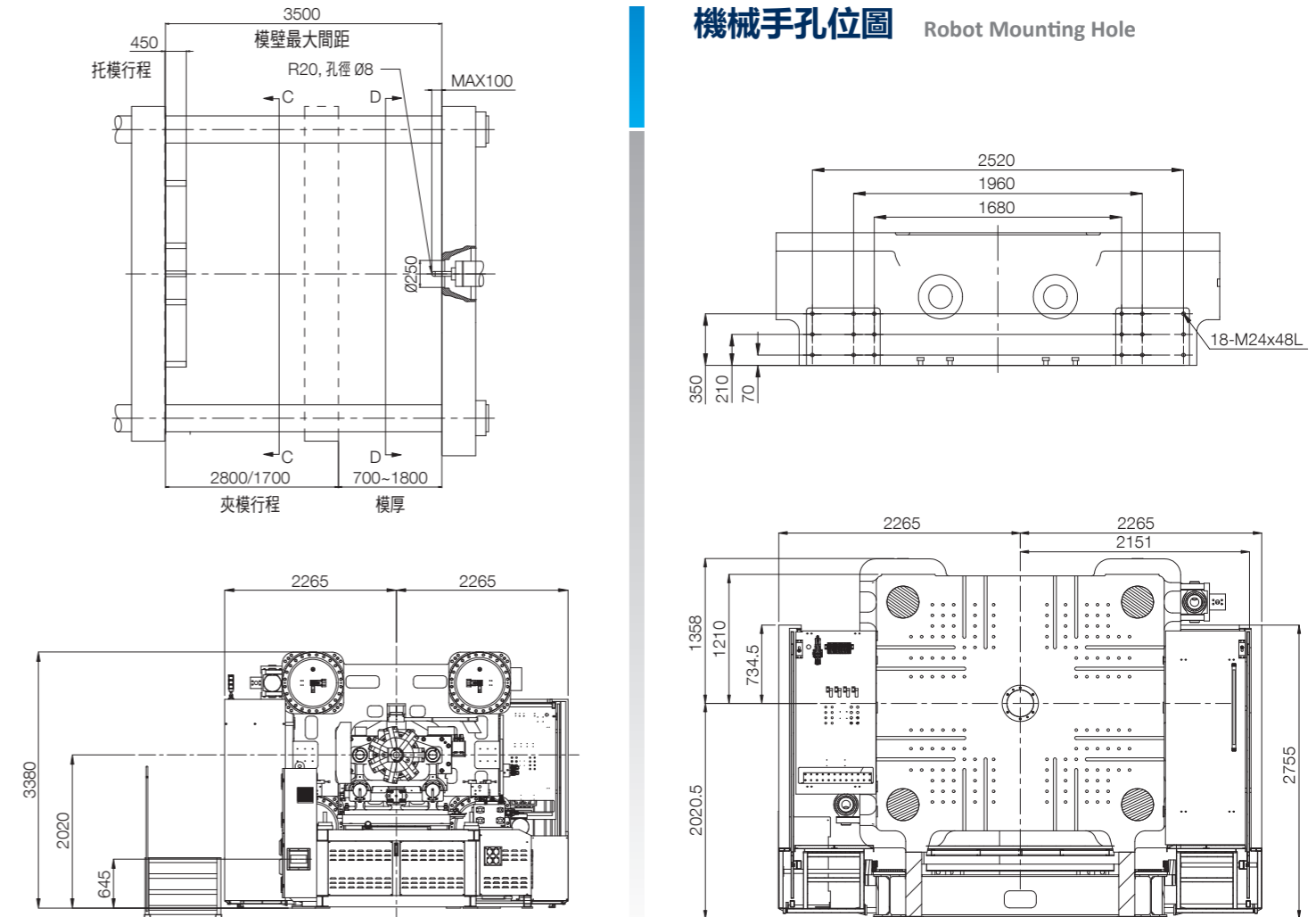
模壁尺寸圖 Mold Platen Dimension



外觀尺寸圖 Machine Dimension



機械手孔位圖 Robot Mounting Hole

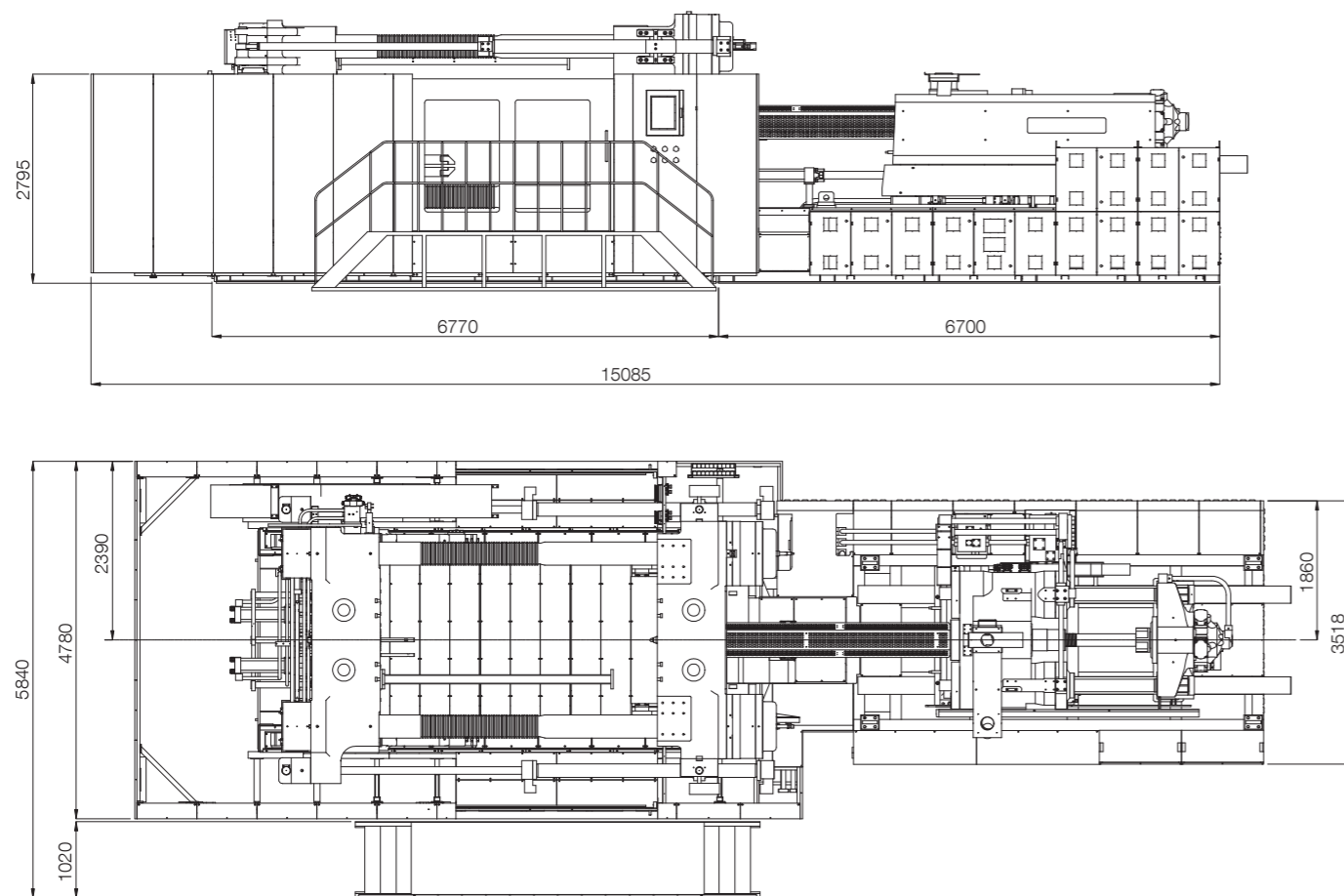


規格表 Specifications

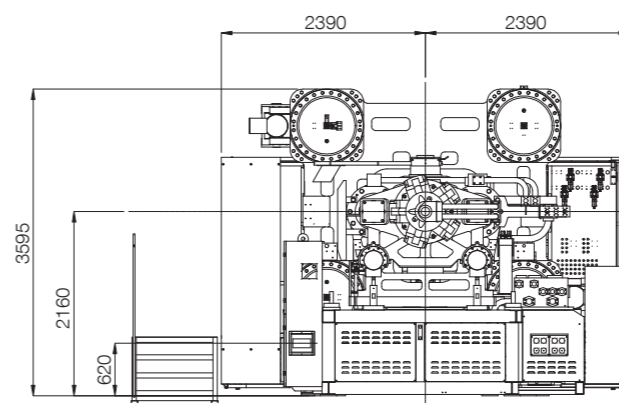
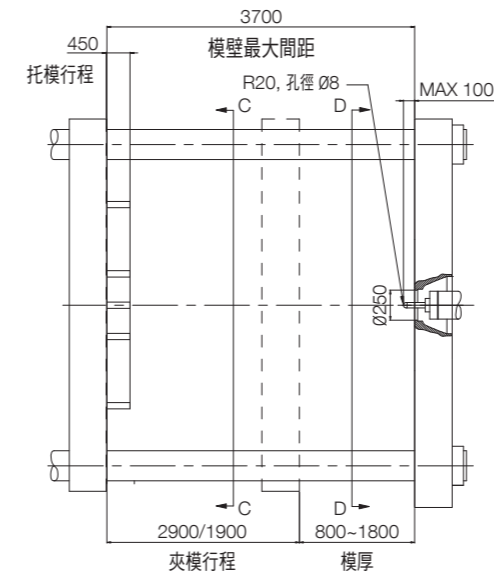
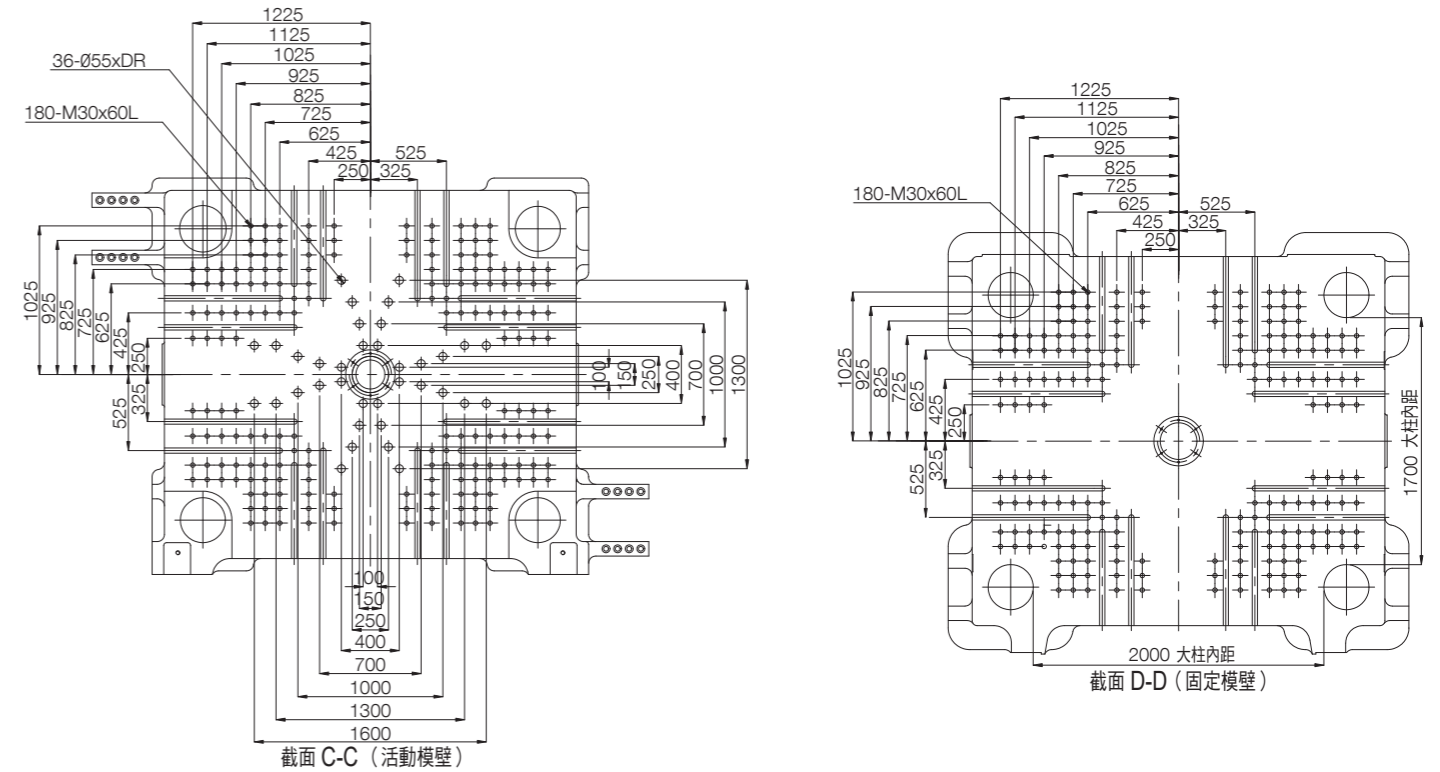
ITEMS		UNIT	LN-2400										
類型	Type	-	14600		22100			30900		39400	50000		
射出單元 Injection unit	螺桿直徑	Screw diameter	mm	130	140	150	140	150	165	170	180	190	200
	射出行程	Injection stroke	mm	630			750			930		1000	1150
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	8358	9693	11127	11540	13247	16029	21098	23654	28339	36110
	理論射出量 (PS)	Shot weight of injection (PS)	gram	7606	8821	10126	10501	12055	14586	19200	21525	25788	32860
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	1750	1509	1314	1920	1673	1382	1511	1348	1390	1389
	射出速度	Injection speed	mm/sec	109									
	射出率	Injection rate	cm <sup>3</sup> /sec	1675	1942	2230	1526	1752	2120	1939	2174	2196	2512
	夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf	2400								
夾模行程		Mold clamping stroke	mm	2900/1900									
模厚		Mold thickness	mm	800~1800									
模具最大重量		Maximum weight of mould	tonf	57									
模壁最大間距		Daylight	mm	3700									
建議最小模具尺寸 (HxV)		Suggested min mold dim (HxV)	mm	1400x1190									
大柱內距 (HxV)		Distance between tie bars (HxV)	mm	2000x1700									
模盤尺寸 (HxV)		Mould platen (HxV)	mm	2840x2540									
電氣單元 Electrical equipment	托模行程	Ejector stroke	mm	450									
	托模力	Ejector force	tonf	46.2									
	泵浦驅動最大功率	Max. pump driving motor	KW	45*4	45*4+30			45*4+30		45*5	45*5		
其他 Others	溫度控制器	Temperature controller	(range) set	(0-400℃)x9		(0-400℃)x9			(0-400℃)x10		(0-400℃)x10		
	電熱容量	Heater capacity	kw	76.13	113.2			150		175	200		
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm	16000x4800x3700									
	油箱容量	Oil tank capacity	liter	4270									
其他 Others	機械重量	Machine weight	metric tons	140									
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140	140			140		140	160		

□ 綠框內為標準組合 The specification green frame is standard type

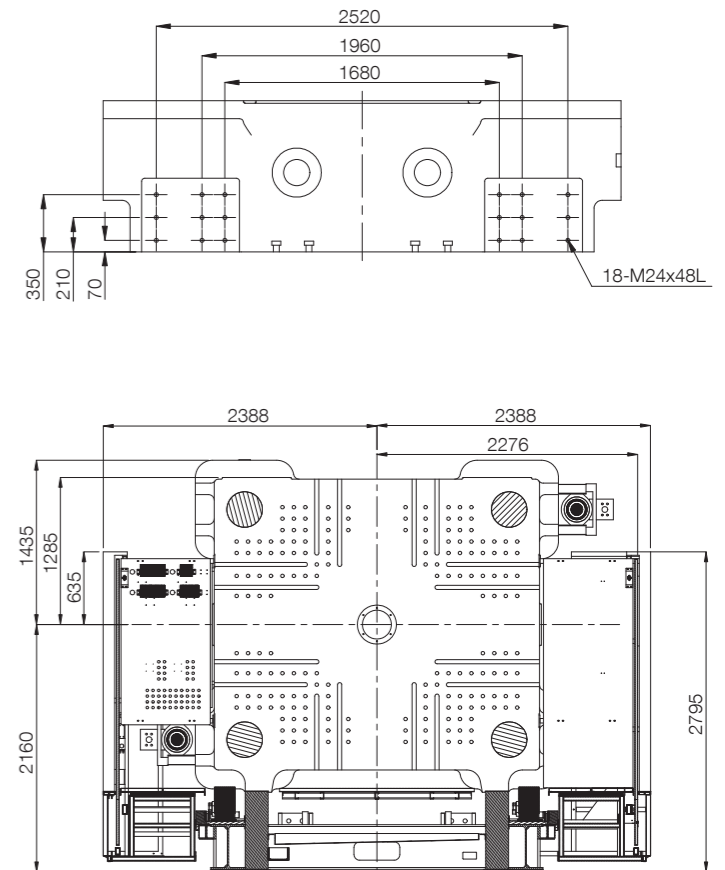
外觀尺寸圖 Machine Dimension



模壁尺寸圖 Mold Platen Dimension



機械手孔位圖 Robot Mounting Hole



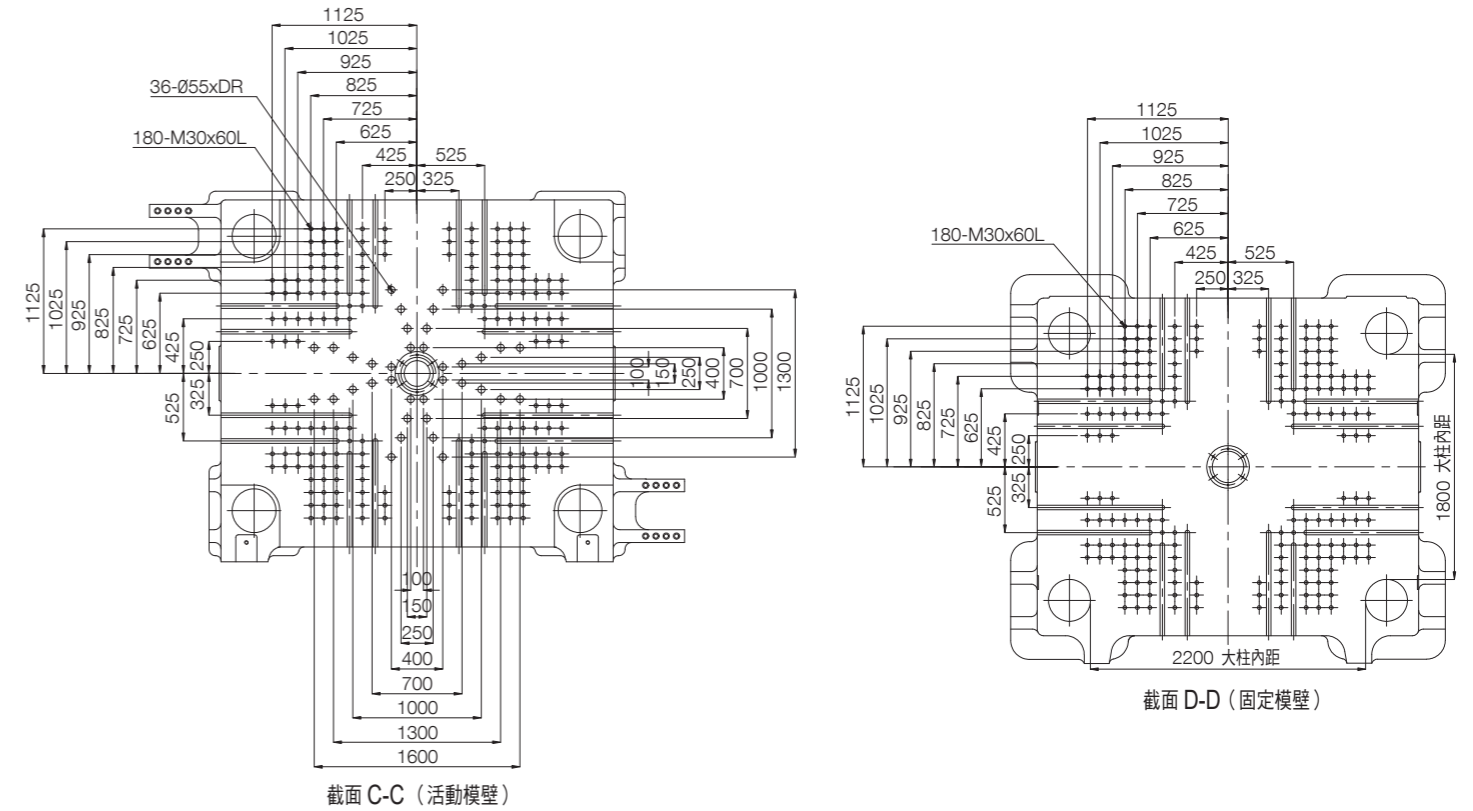


規格表 Specifications

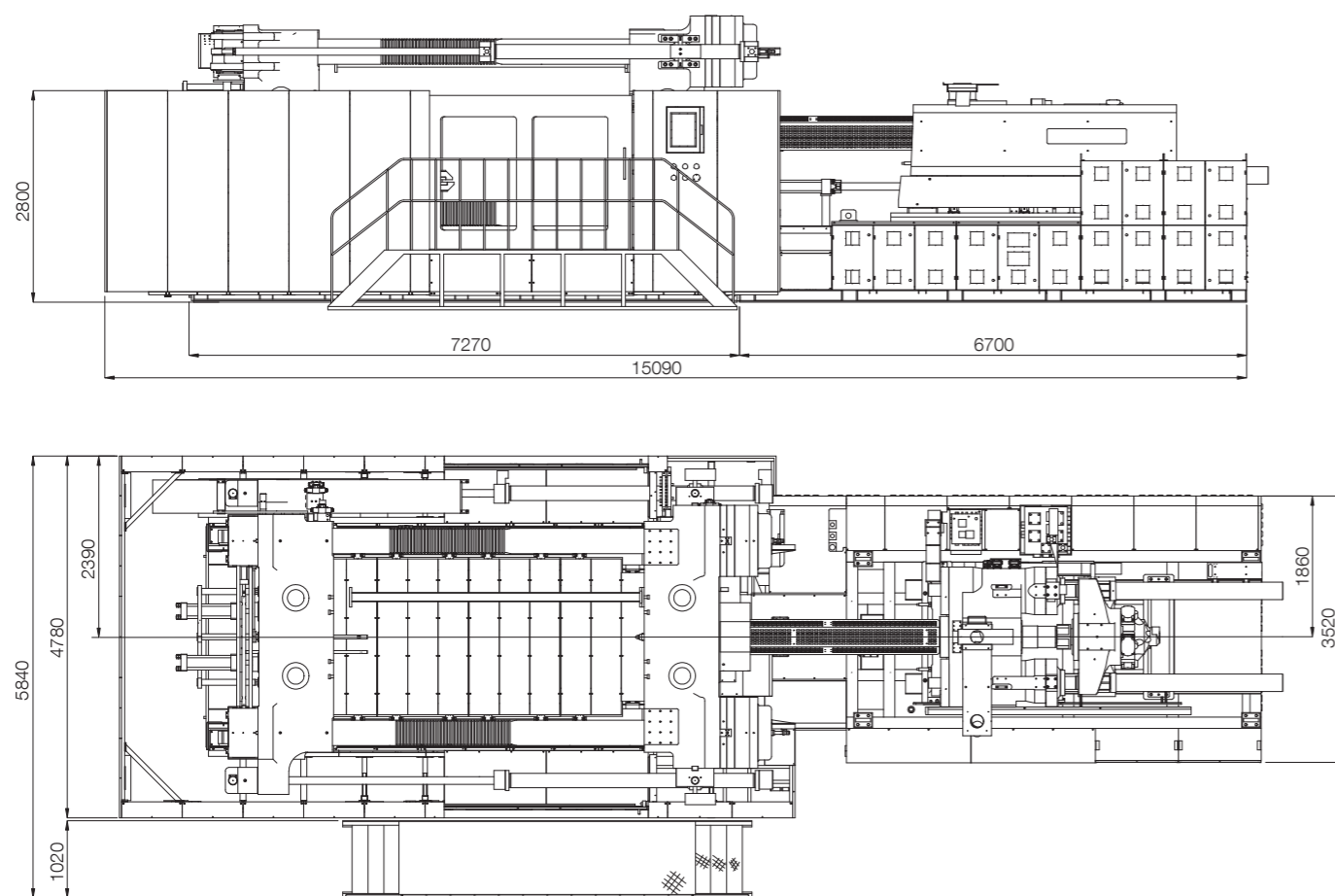
ITEMS		UNIT	LN-2800										
射出單元 Injection unit	類型	Type	-										
	螺桿直徑	Screw diameter	mm	22100		30900		39400		50000		62600	
	射出行程	Injection stroke	mm	750		930		1000		1150		1310	
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	11540	13247	16029	21098	23654	28339	36110	49772		
	理論射出量 (PS)	Shot weight of injection (PS)	gram	10501	12055	14586	19200	21525	25788	32860	45293		
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	1920	1673	1382	1511	1348	1390	1389	1259		
	射出速度	Injection speed	mm/sec	114		98		85		88		84	
	射出率	Injection rate	cm <sup>3</sup> /sec	1590	1825	2208	2019	2264	2196	2512	2910		
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf							2800			
	夾模行程	Mold clamping stroke	mm							3200/2200			
	模厚	Mold thickness	mm							900~1900			
	模具最大重量	Maximum weight of mould	tonf							59			
	模壁最大間距	Daylight	mm							4100			
	建議最小模具尺寸 (H×V)	Suggested min mold dim (H×V)	mm							1540x1260			
	大柱內距 (H×V)	Distance between tie bars (H×V)	mm							2200x1800			
	模盤尺寸 (H×V)	Mould platen (H×V)	mm							3050x2700			
電氣單元 Electrical equipment	托模行程	Ejector stroke	mm							450			
	托模力	Ejector force	tonf							46.2			
	泵浦驅動最大功率	Max. pump driving motor	KW	45*4+30		45*5		45*5		45*5		45*6	
	溫度控制器	Temperature controller	(range) set	(0-400℃)x9		(0-400℃)x10		(0-400℃)x10		(0-400℃)x10		(0-400℃)x10	
其他 Others	電熱容量	Heater capacity	kw	113.2		150		175		200		230.2	
	機械尺寸 (L×W×H)	Machine dimensions (L×W×H)	mm							15700x4850x3900			
	油箱容量	Oil tank capacity	liter							3970			
	機械重量	Machine weight	metric tons							190			
	最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140		140		140		160		140	

□ 綠框內為標準組合 The specification green frame is standard type

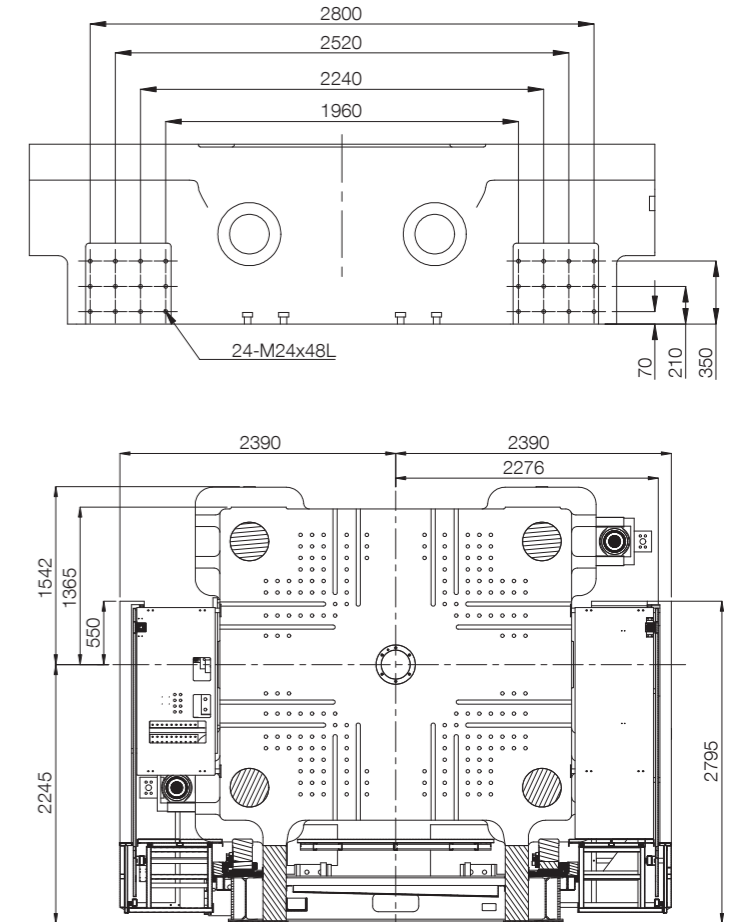
模壁尺寸圖 Mold Platen Dimension



外觀尺寸圖 Machine Dimension



機械手孔位圖 Robot Mounting Hole

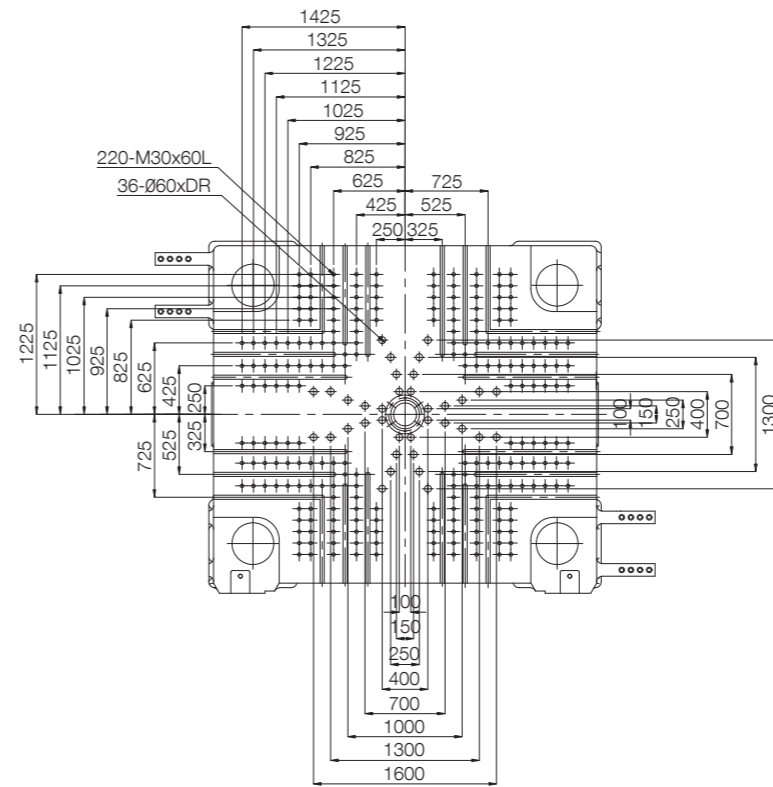
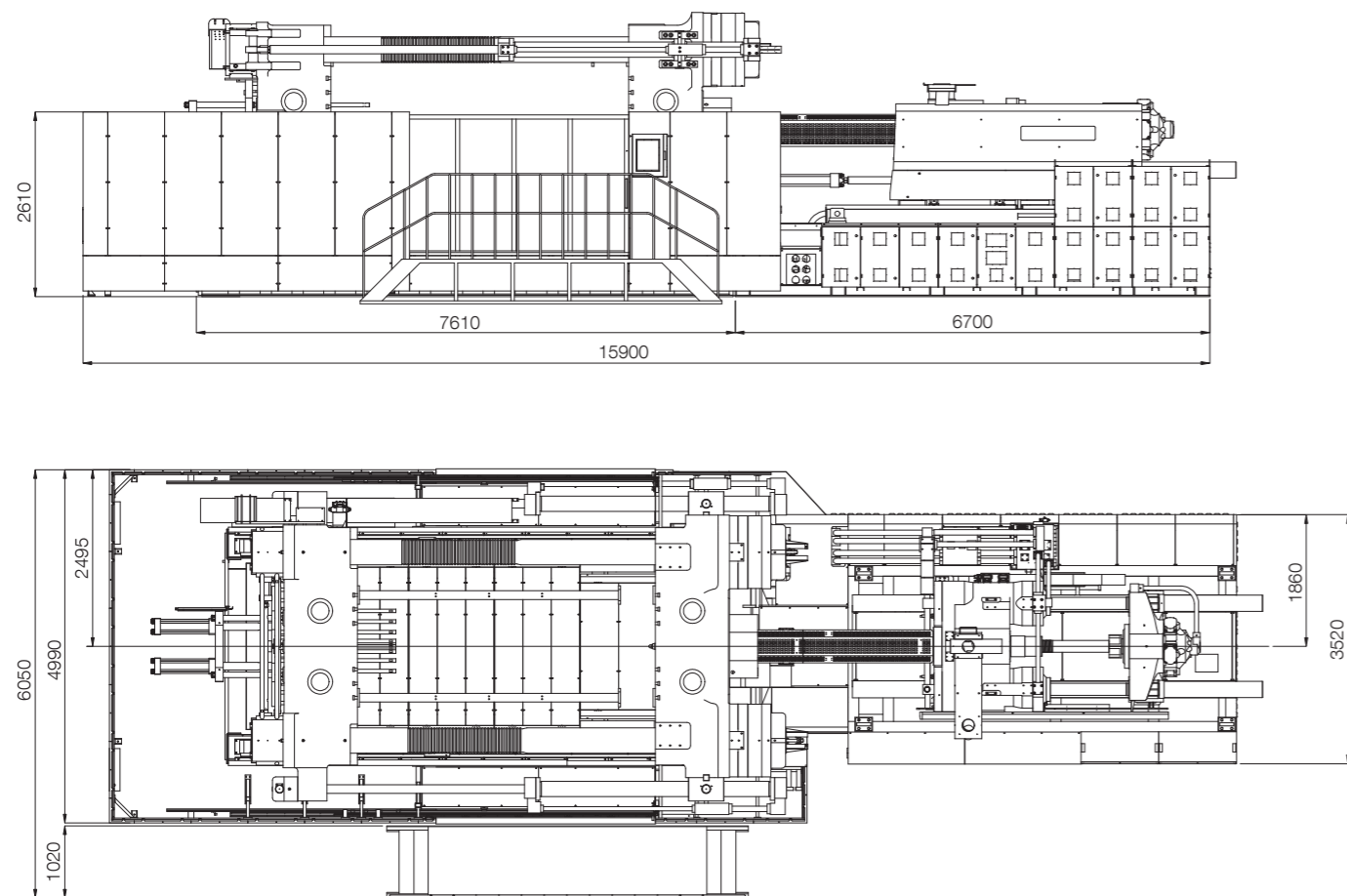


規格表 Specifications

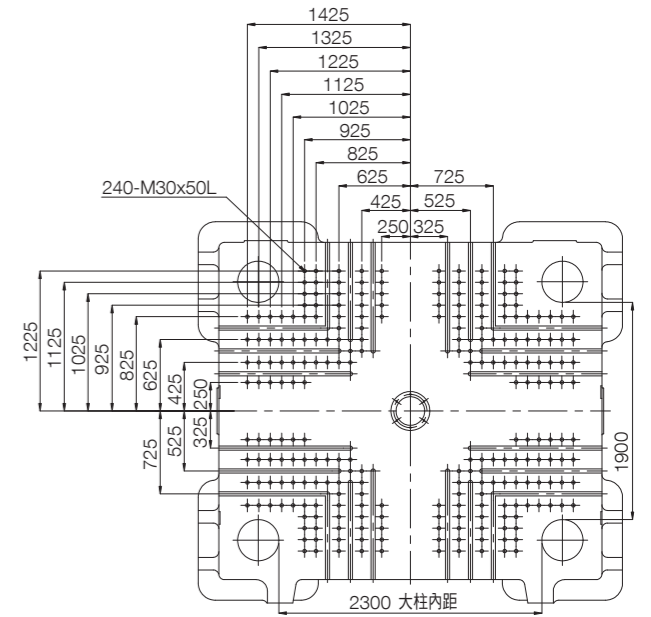
ITEMS		UNIT	LN-3300										
射出單元 Injection unit	類型	Type	-	22100		30900		39400		50000		62600	
	螺桿直徑	Screw diameter	mm	140	150	165	170	180	190	200	220		
	射出行程	Injection stroke	mm	750		930		1000		1150		1310	
	理論射出容積	Theoretical shot volume	cm <sup>3</sup>	11540	13247	16029	21098	23654	28339	36110	49772		
	理論射出量 (PS)	Shot weight of injection (PS)	gram	10501	12055	14586	19200	21525	25788	32860	45293		
	射出壓力	Injection pressure	Kgf/cm <sup>2</sup>	1920	1673	1382	1511	1348	1390	1389	1259		
	射出速度	Injection speed	mm/sec	114		98		85		88		84	
	射出率	Injection rate	cm <sup>3</sup> /sec	1590	1825	2208	2019	2264	2196	2512	2910		
夾模單元 Mold clamping unit	閉模力	Mold clamping force	tonf					3300					
	夾模行程	Mold clamping stroke	mm					3200/2200					
	模厚	Mold thickness	mm					1000~2000					
	模具最大重量	Maximum weight of mould	tonf					68					
	模壁最大間距	Daylight	mm					4200					
	建議最小模具尺寸 (HxV)	Suggested min mold dim (HxV)	mm					1610x1330					
	大柱內距 (HxV)	Distance between tie bars (HxV)	mm					2300x1900					
	模盤尺寸 (HxV)	Mould platen (HxV)	mm					3350x2950					
電氣單元 Electrical equipment	托模行程	Ejector stroke	mm					550					
	托模力	Ejector force	tonf					58.7					
	泵浦驅動最大功率	Max. pump driving motor	KW	45*5		45*5		45*5		45*5		45*6	
其他 Others	溫度控制器	Temperature controller	(range) set	(0-400 °C)x10		(0-400 °C)x10		(0-400 °C)x10		(0-400 °C)x10		(0-400 °C)x10	
	電熱容量	Heater capacity	kw	113.2		150		175		200		230.2	
	機械尺寸 (LxWxH)	Machine dimensions (LxWxH)	mm					16600x5050x4150					
	油箱容量	Oil tank capacity	liter					4460					
最大系統壓力	Max. system pressure	Kgf/cm <sup>2</sup>	140		140		140		160		140		

□ 綠框內為標準組合 The specification green frame is standard type

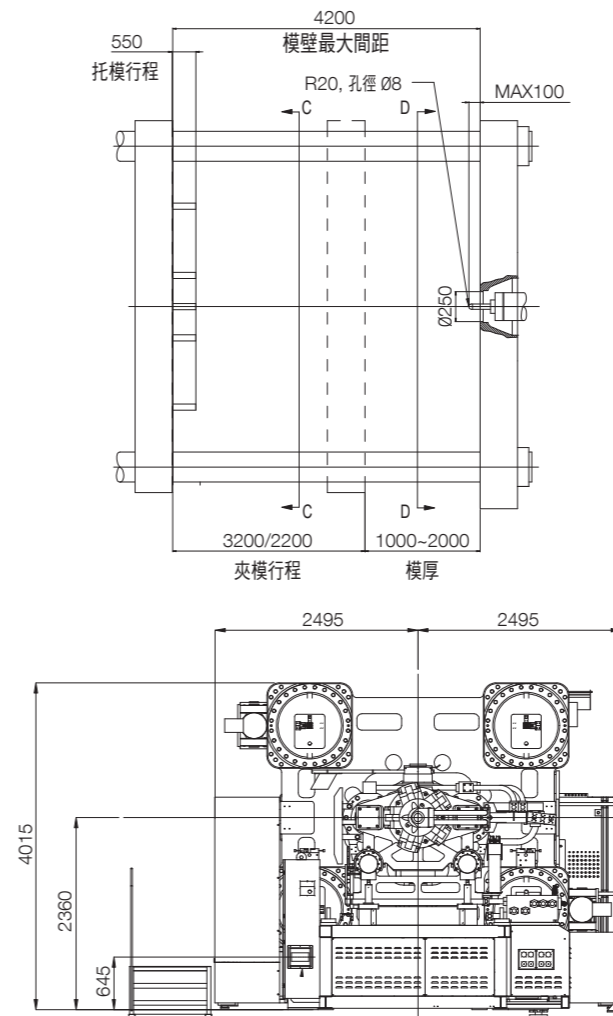
外觀尺寸圖 Machine Dimension



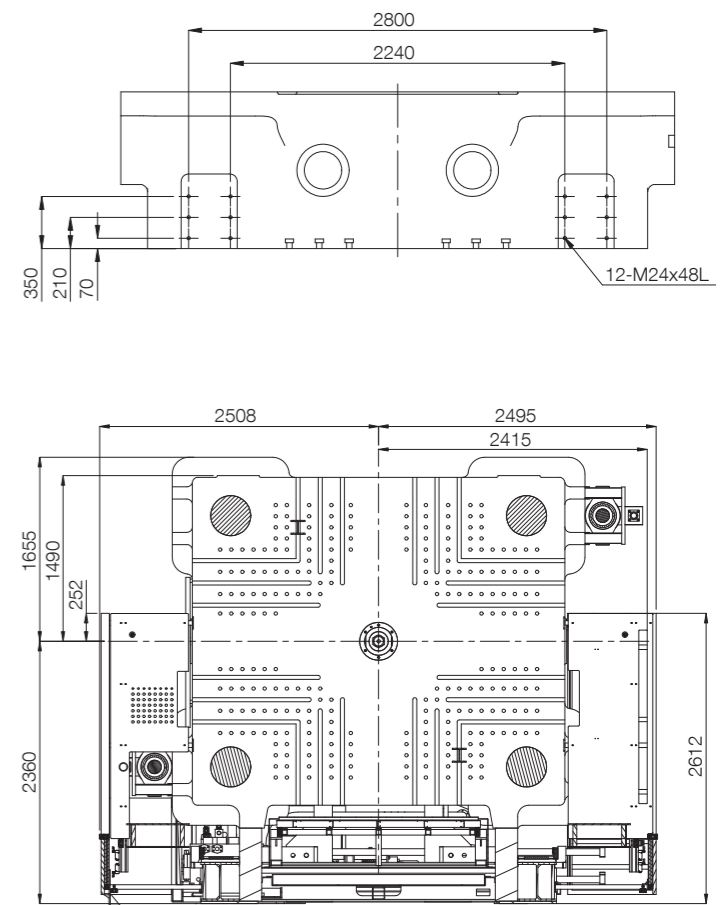
截面 C-C (活動模壁)



截面 D-D (固定模壁)



機械手孔位圖 Robot Mounting Hole



## 標準及選購配備 Standard & Optional Accessories

配備項目	ITEM	LN-500	LN-700	LN-900	LN-1100	LN-1300	LN-1500	LN-1700	LN-1900	LN-2100	LN-2400	LN-2800	LN-3300
射出安全護罩	Safety cover for injection	●	●	●	●	●	●	●	●	●	●	●	●
雙合金螺桿、料管	Bi-alloy Screw/Barrel	○	○	○	○	○	○	○	○	○	○	○	○
托拉式落料裝置	Sliding material feeding device	●	●	●	●	●	●	●	●	●	●	●	●
模壁T型槽	T-slot platen	●	●	●	●	●	●	●	●	●	●	●	●
隔熱墊板	Insulator sheets	○	○	○	○	○	○	○	○	○	○	○	○
活動式模定位圈	Check ring of mold (Replaceable)	●	●	●	●	●	●	●	●	●	●	●	●
電動安全門	Automatic safety gate (Electric type)	●	●	●	●	●	●	●	●	●	●	●	●
安全踏板	Security Pad	●	●	●	●	●	●	●	●	●	●	●	●
多段數位背壓 (螢幕設定)	Multi-stage back pressure control (Screen set up)	-	-	-	-	-	-	-	-	-	-	-	-
多段數位背壓 (螢幕設定及顯示)	Multi-stage back pressure control (Screen set up and display)	●	●	●	●	●	●	●	●	●	●	●	●
射出閉迴路 (伺服閥)	Closed-loop control for injection (Servo valve)	○	○	○	○	○	○	○	○	○	○	○	○
射出比例閥	Proportional valve for injection unit	○	○	○	○	○	○	○	○	○	○	○	○
潤滑油品-黃油	Toggle lubrication - Grease	●	●	●	●	●	●	●	●	●	●	●	●
四中子 (二公二母)	Four core pulling device	●	●	●	●	●	●	●	●	●	●	●	●
轉牙裝置 (計時/計次)	Unscrew device by timer or counter	○	○	○	○	○	○	○	○	○	○	○	○
水流分佈器10入10出 (銅裝)	Water manifold - 10 in & 10 out (copper)	●	●	●	●	●	●	-	-	-	-	-	-
水流分佈器20入20出 (銅裝)	Water manifold - 20 in & 20 out (copper)	○	○	○	○	○	○	●	●	●	●	●	●
雙迴路 (開模與托模同動)	"Double loops system (mould open - ejector start)"	○	○	○	○	○	○	○	○	○	○	○	○
伺服節能系統	Servo power saving system	●	●	●	●	●	●	●	●	●	●	●	●
自封式磁性吸油過濾器	With check valve magnetic suction filter	●	●	●	●	●	●	●	●	●	●	●	●
開關模比例閥控制	Proportional valve for mould open and close	●	●	●	●	●	●	●	●	●	●	●	●
射嘴獨立溫控	Temperature control of injection nozzle	●	●	●	●	●	●	●	●	●	●	●	●
落料口溫度顯示	Temperature display of material feeding section	●	●	●	●	●	●	●	●	●	●	●	●
落料口溫度控制	Temperature control of material feeding section	○	○	○	○	○	○	○	○	○	○	○	○
射出電阻尺	Linear potentiometer for injection	●	●	●	●	●	●	●	●	●	●	●	●
夾模電阻尺	Linear potentiometer for clamping	●	●	●	●	●	●	●	●	●	●	●	●
托模電阻尺	Linear potentiometer for ejection	●	●	●	●	●	●	●	●	●	●	●	●
射座電阻尺	Linear potentiometer for injection carriage	●	●	●	●	●	●	●	●	●	●	●	●
兩個風托 (一公一母)	Air ejector sets	○	○	○	○	○	○	○	○	○	○	○	○
油溫顯示	Oil temperature display for hydraulic system	●	●	●	●	●	●	●	●	●	●	●	●
油溫顯示及控制	Oil temperature display & control	○	○	○	○	○	○	○	○	○	○	○	○
FCS-6500微電腦控制器 (彩色觸控: KEBA)	FCS-6500 controller (color & touch screen:KEBA)	●	●	●	●	●	●	●	●	●	●	●	●
電控穩壓器	Power stabilizer for controller	●	●	●	●	●	●	●	●	●	●	●	●
三色警示燈	Three-color alarm lamp	●	●	●	●	●	●	●	●	●	●	●	●
CE安全插座	CE safty socket	●	●	●	●	●	●	●	●	●	●	●	●
電源插座 (110V/220V)	Power socket (110V/220V)	○	○	○	○	○	○	○	○	○	○	○	○
主電源斷路器	Main power breaker	●	●	●	●	●	●	●	●	●	●	●	●
24H料管自動定時預熱	24 hours auto-preheat for barrel sets	●	●	●	●	●	●	●	●	●	●	●	●
資料保護鎖 (硬體鎖)	Data lock function (key)	●	●	●	●	●	●	●	●	●	●	●	●
機械手電器接口 (歐規12/歐規67)	Robot electrical interface (EUROMAP 12/EUROMAP 67)	○	○	○	○	○	○	○	○	○	○	○	○
乾燥機	Hopper dryer	○	○	○	○	○	○	○	○	○	○	○	○
抽料機	Auto loader	○	○	○	○	○	○	○	○	○	○	○	○
乾燥機磁鐵	Magnet of hopper dryer	○	○	○	○	○	○	○	○	○	○	○	○
避震器	Anti-vibration mounting pad	●	●	●	●	●	●	●	●	●	●	●	●
填料台	Filling material stand	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
工具箱組	Tool box set	●	●	●	●	●	●	●	●	●	●	●	●
標準出車附件	Spare parts	●	●	●	●	●	●	●	●	●	●	●	●
外銷出車附件	Export accessories	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲