

# 全電式轉盤雙色機 - CT-R

## All-Electric Multi-Component Injection Molding Machine

### 伺服馬達控制技術

全機採用伺服馬達控制，運動速度快且平穩，較傳統油壓省電40~70%。

### Servo motor control technology

The whole machine is controlled by servo motors, all the movement is fast and stable. Compared with hydraulic machine, it saves electricity by 70-40%.

### 快速緊湊的射出單元

- 射出部分有二組或多組獨立料管組，同步做射出動作，大幅縮短成型週期。
- 螺桿及料管採用特殊合金鋼材，經離子氮化處理，耐腐蝕、耐磨性和耐高溫。

### Fast and compact injection unit

- Multiple independent injection barrel allows simultaneous injection, greatly shortens the cycle time.
- With finest steel and most innovative ion-nitriding process, the hardest of screw and barrel reaches above HV950, to ensure high wear-resistance.

### 穩定生產的解決方案

具高速生產及多軸同步控制，提供客戶最短周期設計，確保最大產能需求，且成型品重量穩定誤差<0.3%。

### Stable production solutions

With high-speed production and multi-axis synchronous control, it provides customers with the shortest cycle design to ensure the maximum production demand, and the stability of the weight of the molded product is less than 0.3%.

### 精密安全的伺服轉盤設計

- 轉盤速度可提升30%-50%，縮短成型週期，速度切換快速平穩。
- 採用獨特的定位系統，精度可達0.005°。

### Precise and safe rotary table driven by servo motor

- The rotation speed increases 30%-50%, which could shorten the cycle time, changing speed setting more smoothly.
- Rotation accuracy is up to 0.005° with the patented positioning system.

### 支援智能管理系統

支援OPCUA協定，可整合iMF4.0智能管理系統，提供差異化服務。

### Support smart management system

Support OPCUA agreement, can be integrated with iMF4.0 smart management system, provide differentiated services.



# CT-R 規格表 Specifications

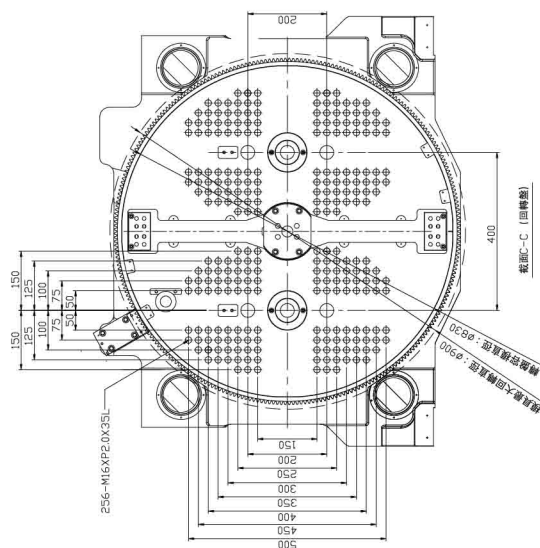
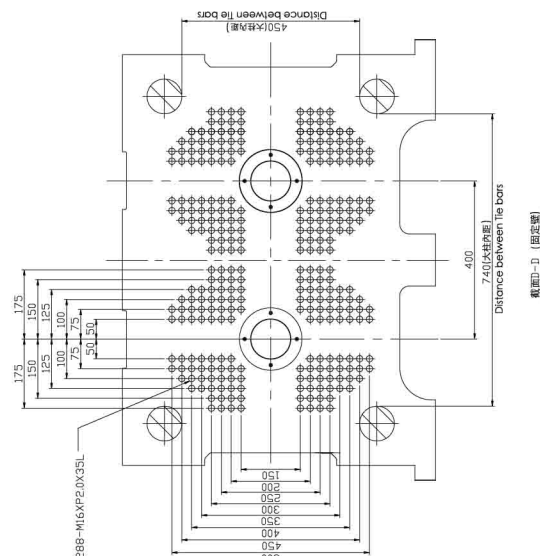
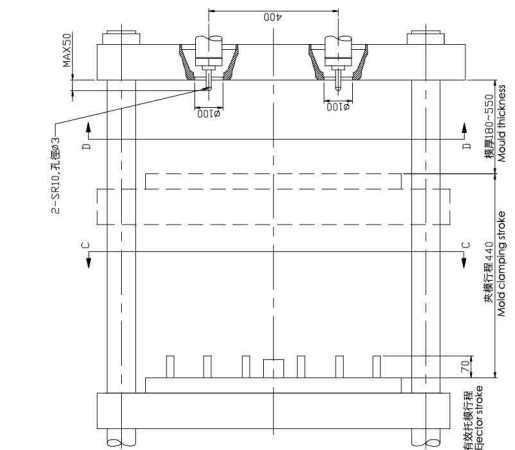
# CT-R 模壁尺寸圖 Mold Platen Dimension

①頂出杆能夠突出轉盤模具安裝面的最大數據。  
②轉盤上模具安裝面的最大直徑。

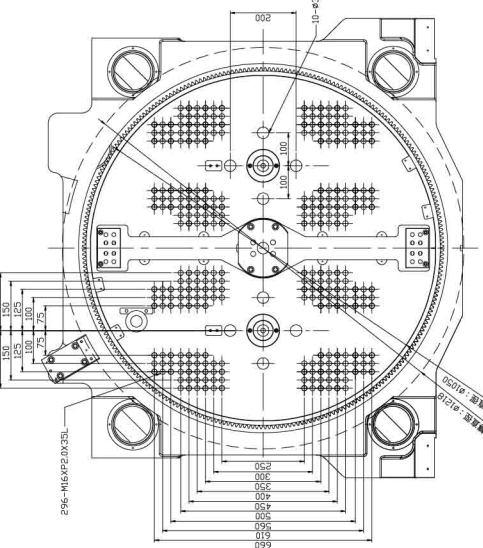
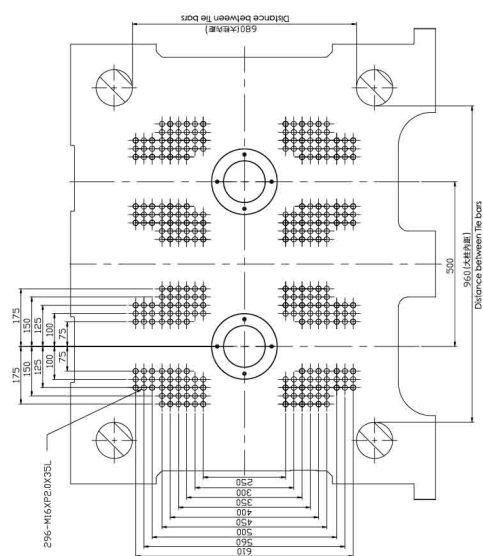
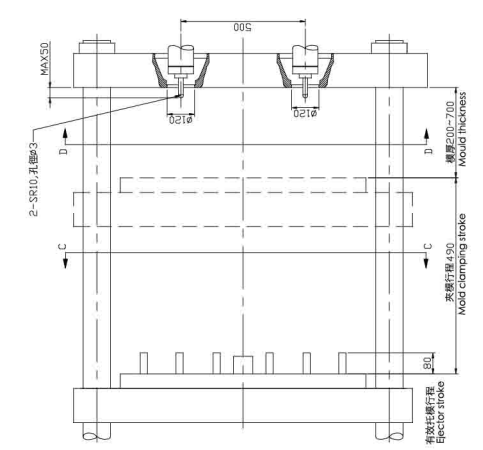
ITEMS		UNIT	CT-180R				CT-180R				CT-230R			
射出單元 Injection unit	類型 Type	-	160				160H				290			
	螺桿直徑 Screw diameter	mm	18	25	30	35	18	25	30	35	25	30	35	40
	射出行程 Screw stroke	mm	130								165			
	理論射出容積 Theoretical shot volume	cm <sup>3</sup>	33	64	92	125	33	64	92	125	81	117	159	207
	理論射出量 Shot weight of injection (PS)	gram	30	58	84	114	30	58	84	114	74	106	144	189
	射出壓力 Injection pressure	kgf/cm <sup>2</sup>	3000	2700	2300	1700	3000	2700	2300	1700	2800	2500	2000	1650
	射出速度 Injection speed	mm/sec	200				300				200			
	射出率 Injection rate	g/s	46	89	129	175	69	134	193	263	89	120	175	229
夾模單元 Mold clamping unit	最大螺桿轉速 Max. screw rotation speed	rpm	350				350				350			
	料管中心距離 Distance between barrel centers	mm	400				400				500			
	閉模力 Mold clamping force	tonf	180				180				230			
	夾模行程 Mold clamping stroke	mm	440				440				490			
	模厚 Mold thickness	mm	180~550				180~550				200~700			
	大柱內距 Tie bar spacing (H×V)	mm	740x450				740x450				960x680			
	有效頂出行程① Effective ejector stroke ①	mm	70				70				80			
	頂出力 Ejector force	tonf	4.0				4.0				4.0			
電氣單元 Electrical equipment	轉盤容模直徑② Rotary table diameter ②	mm	830				830				1050			
	模具最大回轉直徑 Maximum rotary diameter of mold	set	900				900				1218			
	電源功率 Main power	kW	30				36				40			
	溫度控制器 Temperature controller	set	5				5				5			
其他 Others	電熱容量 Heater capacity	kW	4.0	4.0	6.1	6.1	4.0	4.0	6.1	6.1	7.8	7.8	7.8	10.2
	機械尺寸 Machine dimensions (L × W × H)	mm	5350x1800x2100				5350x1800x2100				6020x2020x2200			
	機械重量 Machine weight	ton	12				12				14.5			

ITEMS		UNIT	CT-230R				CT-280R				CT-280R			
射出單元 Injection unit	類型 Type	-	290H				290				490			
	螺桿直徑 Screw diameter	mm	25	30	35	40	30	35	40	45	30	35	40	45
	射出行程 Screw stroke	mm	165								190			
	理論射出容積 Theoretical shot volume	cm <sup>3</sup>	81	117	159	207	117	159	239	302	117	159	239	302
	理論射出量 Shot weight of injection (PS)	gram	74	106	144	189	106	144	217	275	106	144	217	275
	射出壓力 Injection pressure	kgf/cm <sup>2</sup>	2800	2500	2000	1650	2500	2000	2000	1650	2500	2000	2000	1650
	射出速度 Injection speed	mm/sec	300				200				300			
	射出率 Injection rate	g/s	134	193	263	343	129	175	229	289	193	263	343	434
夾模單元 Mold clamping unit	最大螺桿轉速 Max. screw rotation speed	rpm	350				350				350			
	料管中心距離 Distance between barrel centers	mm	500				500				500			
	閉模力 Mold clamping force	tonf	230				280				280			
	夾模行程 Mold clamping stroke	mm	490				490				490			
	模厚 Mold thickness	mm	200~700				200~700				200~700			
	大柱內距 Tie bar spacing (H×V)	mm	960x680				960x680				960x680			
	有效頂出行程① Effective ejector stroke ①	mm	80				80				80			
	頂出力 Ejector force	tonf	4.0				4.0				4.0			
電氣單元 Electrical equipment	轉盤容模直徑② Rotary table diameter ②	mm	1050				1050				1050			
	模具最大回轉直徑 Maximum rotary diameter of mold	set	1218				1218				1218			
	電源功率 Main power	kW	50				40				50			
	溫度控制器 Temperature controller	set	5				5				5			
其他 Others	電熱容量 Heater capacity	kW	7.8	7.8	7.8	10.2	7.8	7.8	11.3	14.3	7.8	7.8	11.3	14.3
	機械尺寸 Machine dimensions (L × W × H)	mm	6020x2020x2200				6020x2020x2200				6520x2020x2200			
	機械重量 Machine weight	ton	14.5				14.5				16			

• 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.



CT-180R

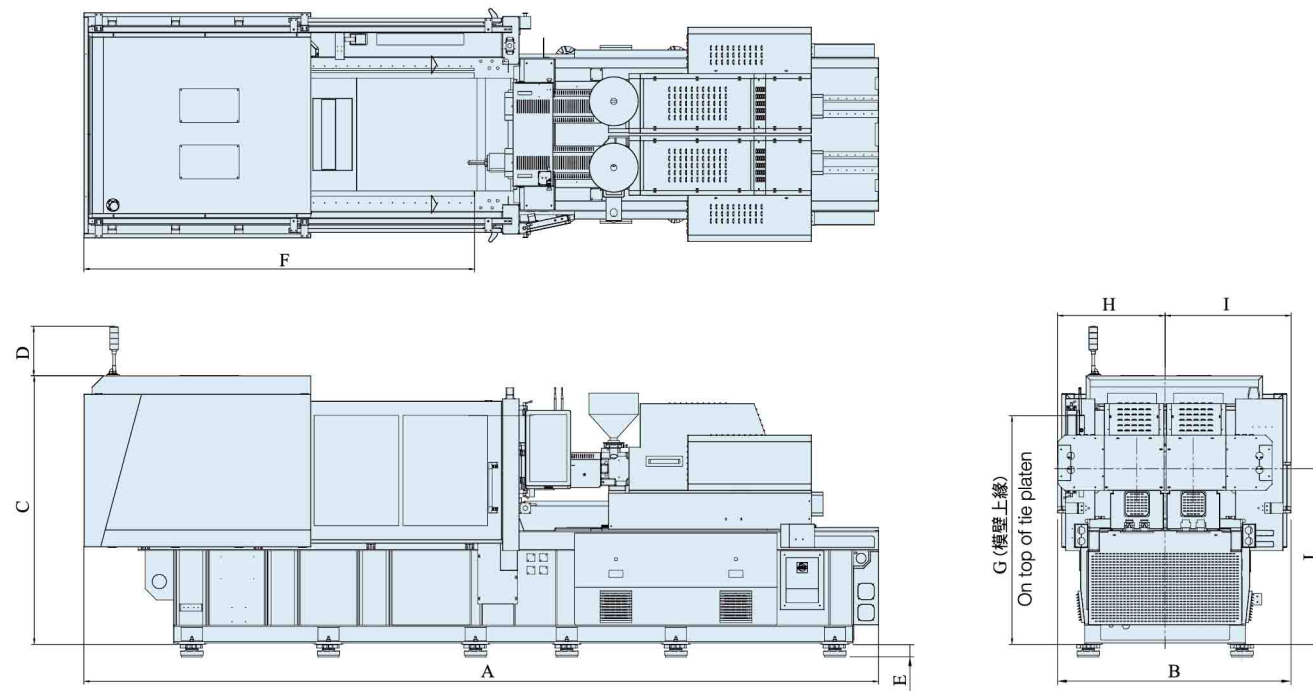


CT-230R / CT-280R



# CT-R 外觀尺寸圖 Machine Dimension

# CT-R 標準與選購配備 Standard & Optional Accessories



機種 Model	A	B	C	D	E
CT-180R	5637	1656	1904	351	90-120
CT-230R	6017	2078	2101	351	90-120
CT-280R	6017	2078	2101	351	90-120

機種 Model	F	G	H	I	J
CT-180R	2772	1621	763	893	1245
CT-230R	3138	1817	974	1104	1290
CT-280R	3138	1817	974	1104	1290

配備項目	ITEM	CT-180R	CT-230R	CT-280R
6段開合模速度可調	6 adjustable open and close speeds	●	●	●
高精度位置、扭力控制	Precise positioning, speed and force control	●	●	●
高靈敏2段模具保護	High sensitivity mold protection with two stages	●	●	●
自動潤滑	Automatic lubrication	●	●	●
電動雙托模	Double electric ejector	●	●	●
即時鎖模力顯示	Actual tonnage display on HMI	●	●	●
動模板使用線性導軌	Linear guide for moving platen	●	●	●
雙中子(一公一母)	Double core pull device (1 in moving platen, 1 in fixed platen)	○	○	○
雙中子(二公)	Double core pull device	○	○	○
四中子(二公二母)	Four core pull device	○	○	○
3組風托(二公一母)	Air ejector sets (2 in moving platen, 1 in fixed platen)	●	●	●
伺服馬達轉盤控制裝置	Servo motor control for rotary table	●	●	●
成品落下斜板	Article Collecting Channel	-	-	-
鎖模力閉環控制	Close-loop clamp tonnage control	○	○	○
大柱鎖模力監視	Tie-bar Clamping force monitor	○	○	○
雙迴路(開模與加料同動)	Double loops system (mould open - screw charge start)	●	●	●
電眼檢出	Photo cell drop-out checking device	○	○	○
模壁T型槽	T-slot platen	-	-	-
活動式模定位圈	Check ring of mold (Replaceable)	●	●	●
頂針回退確認	Ejector back end sensor	●	●	●
頂針壓力保護	Ejector force protection	●	●	●
頂出保持功能	Ejector holding	●	●	●
開模中頂出功能	Ejector during mold opening	●	●	●
鎖模時頂出功能(模內切斷)	Ejector when mold closed (cut cold runner)	●	●	●
PVC、PC、壓克力、尼龍專用螺桿組	Special Screw for PC/PMMA/PA/PVC...	○	○	○
雙合金螺桿、料管	Bi-alloy Screw/Barrel	○	○	○
不鏽鋼料管護罩	Barrel cover with perforated metal	●	●	●
多段射出與保壓可調	Multi Stages pressure holding adjustable	●	●	●
多段背壓可調	Multi Stages rotate speed and Back pressure adjustable in platicizing	●	●	●
預壓縮功能	Pre-compression function	○	○	○
止逆射嘴	Shut-off nozzle	○	○	○
落料口溫度顯示及控制	Temperature display and control of material feeding section	●	●	●
不鏽鋼漏斗	Stainless hopper	▲	▲	▲
托拉式落料裝置	Sliding material feeding device	●	●	●
射出安全護罩	Safety cover for injection	●	●	●
4種VP切換模式	4 VP transfer mode selection	●	●	●
陶瓷料管加熱圈	Ceramic barrel heater	○	○	○
24H料管自動定時預熱	24 hours Auto-preheat	●	●	●
熱電偶異常檢測	Heating zone and thermocouple failure detection	●	●	●
料管同步加熱	Zones heating up synchronous	●	●	●
射嘴獨立溫控	Temperature control of injection nozzle	●	●	●
21.5吋顯示器配備電容式觸控屏(FCS7000)	21.5 inch full color LCD with capacitive touch (FCS7000)	●	●	●
屏幕擷取	Print screen and save	●	●	●
運行流程分析	Breakdown analyzer	●	●	●
多種國際單位切換	Multi unit	●	●	●
電能計量(瓦時計)	Energy meter	○	○	○
熱澆道溫度控制器(整合PLC監控)	Hot runner controller	○	○	○
品質判別和統計以及品質曲線	Quality criteria and statistics, the quality curve	●	●	●
品質異常紀錄功能	Quality exception record	●	●	●
生產管理功能	Production management	●	●	●
歐規12接口	Euromap 12 interface	●	●	●
歐規67接口	Euromap 67 interface	○	○	○
水流分佈器4入4出(機台用)	Water manifold - 4 in & 4out (copper)	●	●	●
水流分佈器8入8出(模具用)	Water manifold - 8 in & 8 out	●	●	●
水流分佈器10入10出(模具用)	Water manifold - 10 in & 10 out	○	○	○
後安全門操作	Part remove from rear safety door	○	○	○
CE安全插座3組	CE safty socket	●	●	●
電源插座2組 (220V)	Power socket (220V)	●	●	●
前安全門電磁鎖保護裝置	Safety door lock protection dervice	●	●	●
三色警示燈	Three colors alam light	●	●	●
避震器	Anti-vibration mounting pad	●	●	●
工具箱組	Tool box set	●	●	●