



BMC *SERIES*

BMC專用射出機
BMC Injection Molding Machine

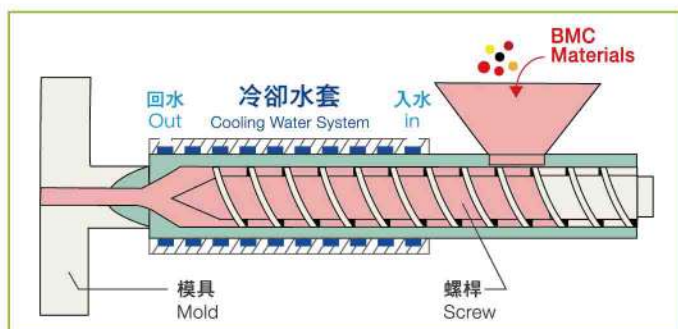
BMC系列產品定位 BMC Series Product Position



BMC屬於熱固性塑料的一種，具有耐高溫、耐燃性、耐蝕性、高機械強度、尺寸安定、電器絕緣等特性，廣泛用於汽車類零件、電子工業、家用電器及通訊器材的外殼及零件。

BMC (Bulk Molding Compounds) is a type of thermosetting plastic material which contains many properties including heat-resistance, flame-retardation, erosion-resistance, high mechanical strength, dimension stability and electrical insulation. It is widely used in numerous industries like automotive parts electronic component, household appliances and communication devices.

- 採BMC專用雙合金螺桿及料管，提供較佳的耐磨性和使用壽命。
- 程式整合澆口自動裁切功能。
- 冷卻水套集成在料管組內，確保BMC原料處於恆溫可控狀態。(圖 1)
- 車壁配置隔熱墊板，模溫控制更精準。(圖 2)
- 可搭配ACC蓄壓射出裝置，提供瞬間高速能量，進行高速射出成型。(圖 3)
- 選配模具抽真空迴路裝置（專利設計），使成型更精確，降低產品不良率。(圖 4)
- Adopt BMC special bi-alloy screw and barrel to provide a better wear resistance as well as longer life.
- Auto gate-cutting function is integrated in program.
- The cooling water system is integrated with barrel to ensure the constant temperature for the BMC material. (Figure1)
- The platen equipped with adiabatic spacer, it can let the mold temperature control more precise. (Figure 2)
- **Optional** : Applied to Accumulator for high-speed injection, it can supply high-speed capacity in a very short time and proceed high-speed molding. (Figure 3)
- **Optional** : Mold cavity vacuum equipment is optional, it can make molding more precise and decreasing defective rate of the product. (Figure 4)



1 冷卻水套系統
Cooling Water System

標準及選購配備 Standard & Optional Accessories

● 標準配備 Standard ○ 選購配備 Option — 無 N/A

配備項目	ITEM	HN-150 BMC	HN-250 BMC	HN-300 BMC	HN-350 BMC	HN-530 BMC	HN-600 BMC
射出安全護罩	Safety cover for injection	●	●	●	●	●	●
BMC專用螺桿	Special Screw for BMC	●	●	●	●	●	●
雙合金螺桿、料管	Bi-alloy Screw/Barrel	○	○	○	○	○	○
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)	○	○	○	○	○	○
蓄壓器高速射出	Accumulator for high-speed injection	○	○	○	○	○	○
射出閉迴路	Close-loop control for injection pressure & speed	○	○	○	○	○	○
落料口溫度顯示及控制	Temperature display & control of feeding gate	○	○	○	○	○	○
射出電阻尺	L/P for injection unit	●	●	●	●	●	●
餵料電阻尺	L/P for feeding unit	●	●	●	●	●	●
曲肘：無給油軸承	Oiliness bearing (Toggle)	●	●	●	●	—	—
曲肘：套鋼	Steel bearing (Toggle)	—	—	—	—	●	●
開關模比例閥控制	Proportional valve for mould open and close	○	○	○	○	○	○
模壁T型槽	T-slot platen	—	—	●	●	●	●
模壁T型墊板	T-slot board	○	○	—	—	—	—
隔熱墊板	Insulator sheets	●	●	●	●	●	●
活動式模定位圈	Check ring of mold (Replaceable)	—	●	●	●	●	●
固定式模定位圈	Check ring of mold (Non-replaceable)	●	—	—	—	—	—
安全踏板	Security Pad	—	—	—	—	—	—
曲肘電動注油器 (1組)	Auto lubrication system for toggle (1 set)	●	●	●	●	●	●
曲肘電動注油器 (2組)	Auto lubrication system for toggle (2 set)	—	—	—	—	—	—
曲肘潤滑油品-鋰基脂 (#00)	Toggle lubricating by grease (#00)	●	●	●	●	—	—
曲肘潤滑油品-多效齒輪油	Toggle lubricating by gear oil	—	—	—	—	●	●
車壁潤滑：電動注油器	Auto lubrication system (platen)	●	●	●	●	●	●
單中子 (一公)	Single core pull device	●	●	●	●	—	—
雙中子 (一公一母)	Double core pull device	○	○	○	○	●	●
轉牙裝置 (計時/計次)	Unscrew device by timer or counter	○	○	○	○	○	○
模具抽真空迴路裝置	Mould cavity vacuum equipment	○	○	○	○	○	○
夾模電阻尺	L/P for clamping unit	●	●	●	●	●	●
頂出電阻尺	L/P for ejection unit	●	●	●	●	●	●
兩個風托 (一公一母)	Air ejector sets	○	○	○	○	○	○
成品落下口	Article Collecting Channel	●	●	●	●	—	—
電動安全門	Automatic safety gate (Electric type)	—	—	—	—	●	●
水流分佈器 (銅製)	Water manifold (copper)	—	—	—	—	—	—
自封式磁性吸油過濾器	With check valve magnetic suction filter	—	—	—	—	●	●
伺服節能系統	Servo power-saving system	●	●	●	●	●	●
電眼檢出	Photo cell drop-out checking device	○	○	○	○	—	—
油溫顯示	Oil temperature display for hydraulic system	●	●	●	●	●	●
油溫省水閥控制	Water valve for hydraulic oil temperature control	○	○	○	○	○	○
油溫預熱功能	Oil temperature preheating function	○	○	○	○	○	○
FCS-6500S微電腦控制器 (彩色)	FCS-6500S controller (color screen)	●	●	●	●	●	●
資料保護鎖 (硬體鎖)	Data lock function (key)	●	●	●	●	●	●
機械手電氣接口	Robot electrical interface	○	○	○	○	○	○
電控穩壓器	Power stabilizer	○	○	○	○	○	○
三色警示燈	Three colors alam light	●	●	●	●	●	●
CE安全插座	CE safty socket	●	●	●	●	●	●
電源插座	Power socket (110V/220V)	○	○	○	○	○	○
主電源斷路器	Main power breaker	●	●	●	●	●	●
油壓、電氣雙重保護裝置	Dual safety device: hydraulic and electrical	●	●	●	●	●	●
機械安全桿保護裝置	Mechanical Safety bar Protection device	○	○	○	○	○	○
模溫機	Mold temperature controller	○	○	○	○	○	○
冷凍機 (料管用)	Chiller for barrel	●	●	●	●	●	●
吊桿組	Mold lifting hanger set	○	—	—	—	—	—
避震器	Anti-vibration mounting pad	●	●	●	●	●	●
填料台	Filling material stand	●	●	●	●	●	●
工具箱組	Tool box set	●	●	●	●	●	●
電氣及其他附件	Accessory for electrical and others	●	●	●	●	●	●

* 模具加熱控制方式及附加配備製作方式另議。The ways of mold heating controlling and additional equipment making are considered separately.

* 冷凍機附水流分佈器(料管用)。Chiller with water manifold. (for barrel)

* 曲肘潤滑油品：150T~350T採用鋰基脂(#000)；470T~1000T採用多效齒輪油。Toggle lubricating: 150T~350T by grease (#000) ; 470T~1000T by gear oil.

* 機台模壁若加裝T型墊板，會使模厚及頂出行程的規格改變。If clamping unit adopting T-slot board, the "mold thickness" & "ejector stroke" dimensions will be different.

* 外銷機台配置與內銷相同。

優異特點 Specific Features



● 新式調模機構

調模機構與調模壁採整體式設計，使四支大柱受力均勻，鎖模力調整簡易準確。

● New Mold Adjusting Mechanism

The new mold adjusting platen mechanism design doesn't require its mounted nut for torque tuning and distributes force evenly on the tie bars.



● 高端控制器

採用網路射出機專用系統，人性化操作介面，系統反應速度高達1ms，精度更高、操作方便，擴展性更好。

● Hight-End Controller

Applying network control system capacity with user friendly operation interface and high speed central processor, which offers high response and easy extending.



● 自動潤滑系統

循環式電動注油系統，油量分配平均，潤滑效率高，增長曲肘壽命。

● Automatic Lubrication System

An automatic lubrication system circulates and distributes oil equally for greater efficiency in lubrication and enhanced toggle life.



● 高剛性機架結構

精簡堅固之設計，經有限元素分析變形量及應力分佈，確保機架結構及強度達到最佳化，使BMC系列機種「穩如泰山」。

● Highly Rigid Structure Frame

Designed based on Finite Element Analysis (FEA) for Stress and Strain effects to ensure the BMC's excellent frame structure.



● 新式專利射移結構

新型導柱式結構，跨距縮短，避免料管前傾及導柱下垂變形。使用二硫化鉬塗佈襯套，阻力小，移動快速，且永久免潤滑，潔淨度高。

● New Patented Injection Sliding Structure

The new pillar guiding plate structure is shortened to avoid barrel inclination and deformation. And with Molybdenum Disulfide coated bushings, it produces a less resistant, faster moving, very clean, oil-free injection sliding structure.



● 半閉迴路系統（選購）

配置半閉路油壓控制系統，有效提升成型穩定性。

● Semi-closed Loop System (Optional)

Adopts a semi-closed loop hydraulic system to effectively promote molding stability.



● 數位背壓裝置

可直接從電控螢幕設定背壓，操作簡易。

● Digital Back Pressure Installation

The back pressure can be directly changed and set on the controller for easy operation.



富強鑫集團 FCS Group



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