

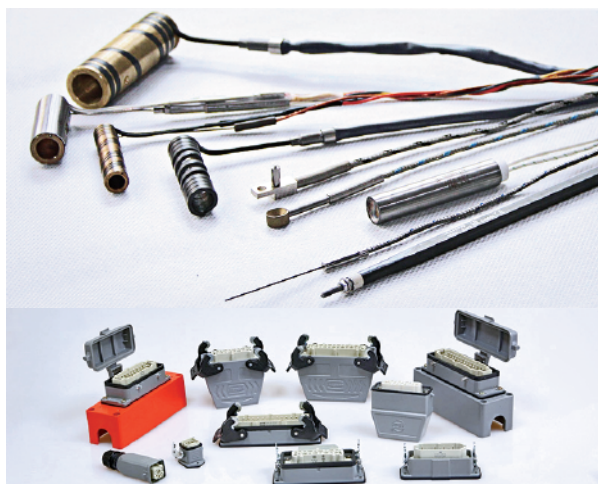
➤ 熱澆道系列
Hot Runner Systems



uCloud

專業化熱澆道系統

Specializing in
Hot Runner Systems



- 熱澆道系統銷售 · 設計規劃 · 專業諮詢服務。
- 熱澆道系統特殊尺寸之訂製、配合。
- 備各種規格各廠牌零件，提供完善的售後服務。
- 備各種不同規格之加熱器、感溫線、插座，庫存齊全，現貨供應。
- PID微電腦精密控制之溫控。
- 專業模流分析服務。

- Hot runner systems sale, design and consultation.
- Accepting special dimension order.
- Providing different brands of accessories to meet customer's requirement and complete after sales services system.
- All range of different specifications for heater, thermocouple, connector, etc. and complete stocks available.
- PID type of control algorithm for temperature controller.
- Professional molding simulation analysis service available.

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企業簡介 Company Introduction

契益有限公司是一家專業化熱澆道系統生產企業，目前員工人數約100人，公司創辦人陳仲樂先生於1991年開始從事於熱澆道系統銷售與服務行業，於1997年與陳雅模先生一同成立契益有限公司，全力投入熱澆道系統的研發、生產與經營，公司產品隨客戶模具銷售至世界各地。於2003年因業務的拓展及長遠企業經營規劃，於大陸深圳設廠投資成立模寶科技(深圳)有限公司，自創 M[®] MOLDPOWER 品牌並徵尋世界各地之代理合作夥伴，開拓市場之經營服務範圍，更於2017年台灣新廠落成擴充增添歐、日、台等先進精密加工機械設備制定了一套嚴格的品質管理體系及售後服務體系，確保對客戶交貨時間、交貨品質及售後服務之迅速與完善，以提高客戶在模塑行業中的競爭力為使命做貢獻。

M[®] 熱澆道系統以其優異的性能，為越來越多的大型塑膠廠及模具廠所採用，高階加熱系統全部採用歐洲進口加熱器，使用壽命長、溫度精確、加熱效果好。配合本公司專屬熱澆道專用PID控制器，具有控溫精度高及性能穩定等特點。

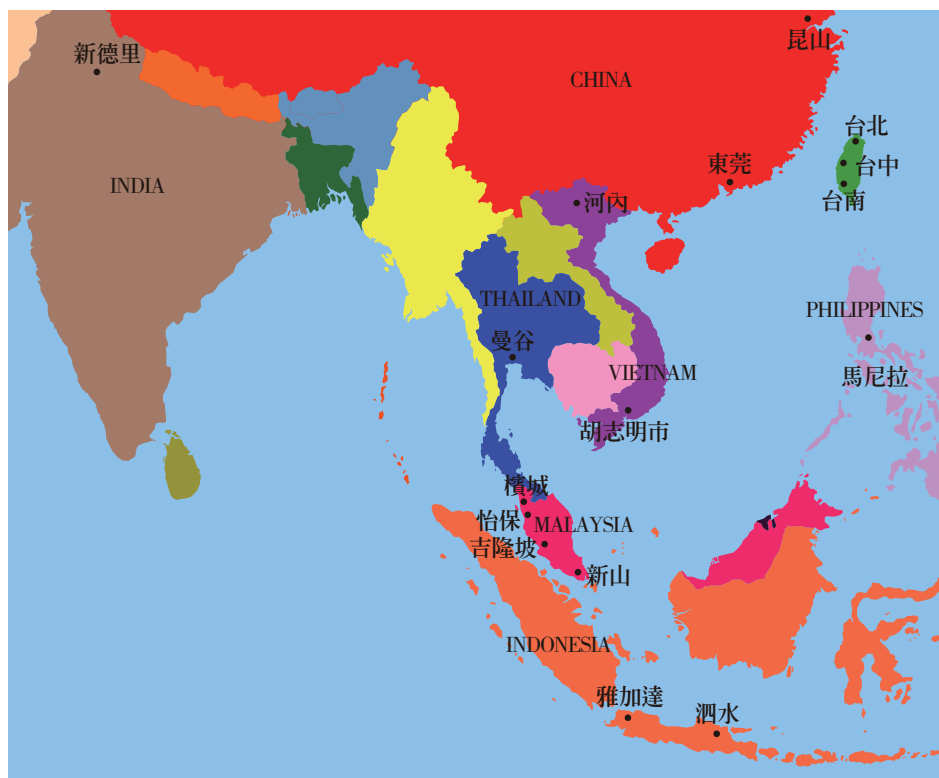
本公司擁有專業的技術服務隊伍，客戶只需提供產品及塑膠料等基本資料，我們可為客戶提供從熱澆道系統設計、模流分析、安裝試模及量產時保固與維修。熱誠歡迎各相關廠商與我們建立合作關係，我們將竭誠為您提供一流的服務!

Mold Power Co., Ltd. is a professional hot runner system enterprise. Currently there are 100 employees in this company. The company's founder Chung Le Chen start to get into the hot runner system's selling & service business from 1991. And establish the Mold Power Co., Ltd. with Ya Mo Chen in 1997, which dedicate on the research, production & the business administration of the hot runner system. Company product accompany with customer's mold worldwide. Base on business growing & long term business plan, we have established a Mold Power Technology (Shen Zhen) Co., Ltd. in Shen Zhen, China and register the M[®] trademark & seeking distributors worldwide to extend the market share. Furthermore we have move to the new plant with latest precisioning machines which bought from Europe, Japan, Taiwan to castigate a quality control system & after sale service plan to ensure the product delivery time, quality control & quick feedback to customer in order to get more competitiveness in the plastic & mold business.

More & more large plastic & mold companies are using Mold Power's high quality product because of its long lifeness, accurate temperature control, heating elements effectiveness with our temperature controller for hot runner system.

Mold Power Co., Ltd. is a professional technical-based service team, customer will only provide the product & material used information, then Mold Power Co., Ltd. can provide the services which from hot runner system design, mold flow analysis to tooling for production's maintenance & guarantee. We will extend a warm welcome to our esteemed customers to co-operate each other and provide the best service to you.

亞洲區銷售與服務 Asia Locations Sale & Support



TAIWAN 台灣

台南 總公司
台北 代理商
台中 代理商

CHINA 中國

東莞 分公司
昆山 代理商

VIETNAM 越南

胡志明 分公司
河內 代理商

THAILAND 泰國

曼谷 代理商

MALAYSIA 馬來西亞

檳城 代理商
怡保 代理商

PHILIPPINES 菲律賓

馬尼拉 代理商

INDONESIA 印尼

雅加達 代理商
泗水 代理商

INDIA 印度

新德里 代理商

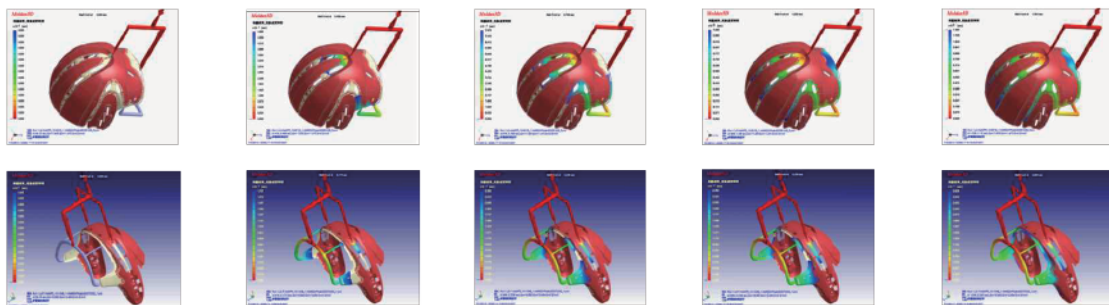
生產產品及產品運用 / Manufacturing product and product application

契益有限公司的專業製作熱流道系統，已被模具廠廣泛應用於家電生活用品、辦公用品、汽車零件、電子資訊產品、手機、運動用品、及醫療用品等模具上，成為最有效之自動化成型生產系統。

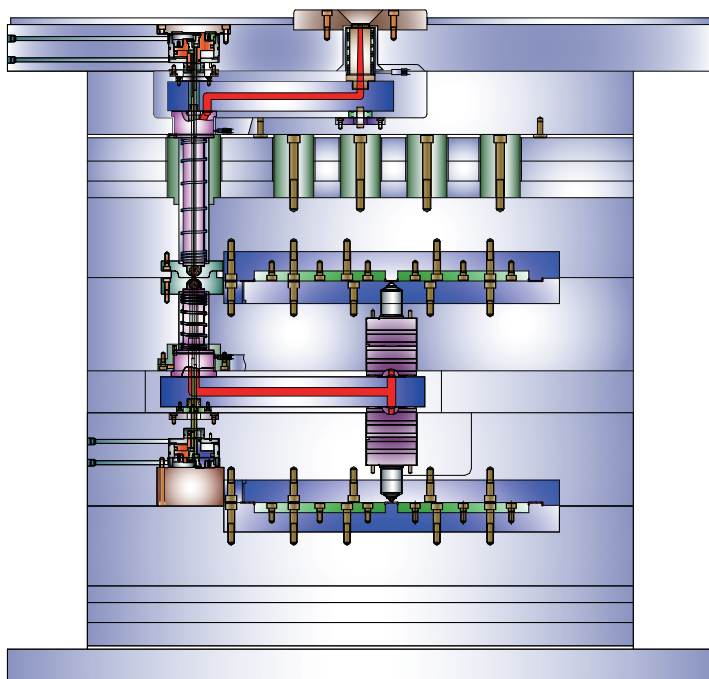
Mold Power Co., Ltd.'s professional hot runner system has been adopted in many fields like HA, OA, automobile, computer, mobile phone & medical instrument's mold and has complementary on its automatic forming production system.



塑膠模流分析簡介 / Plastic injection Moldex3D software system



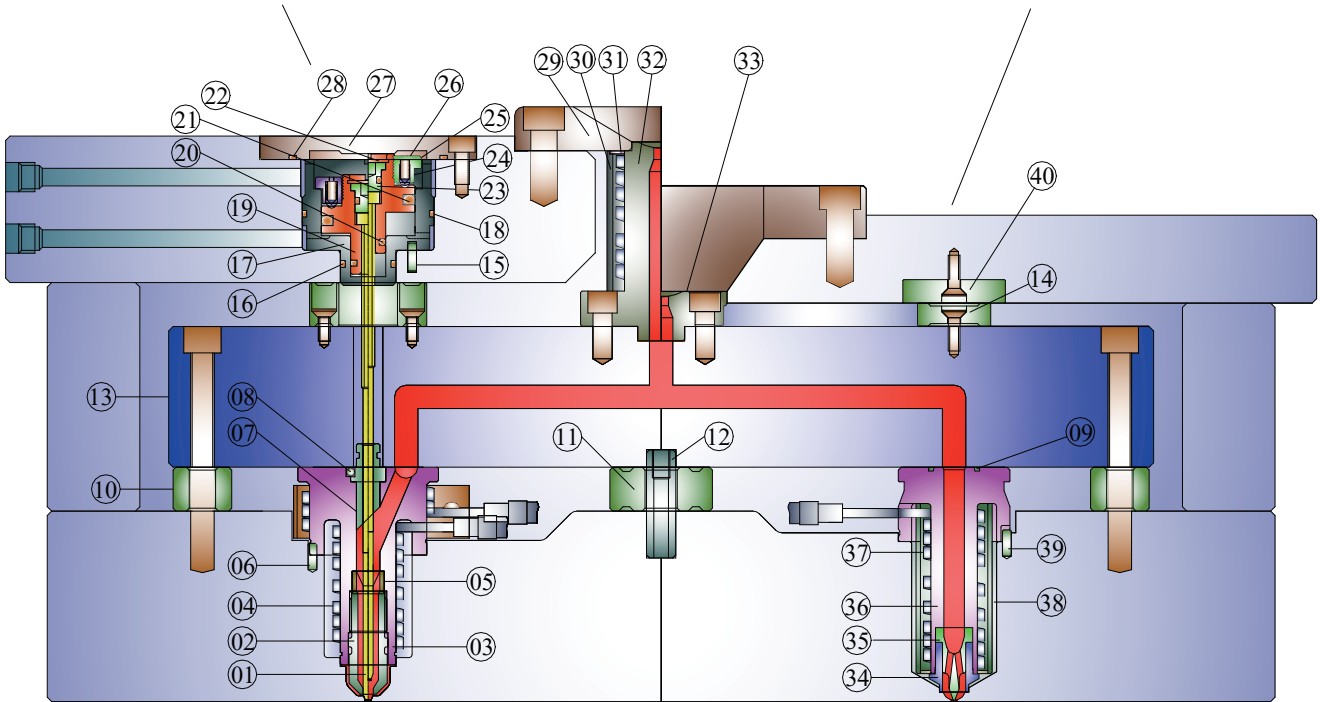


1&1 疊模實例 / IKEA 1&1 Stack mold example




熱澆道系統的構成及名稱

Title and Construction of MP Hot Runner Systems


針閥式熱嘴
VALVE GATE NOZZLE SYSTEM

針點式熱嘴
PINPOINT GATE NOZZLE SYSTEM


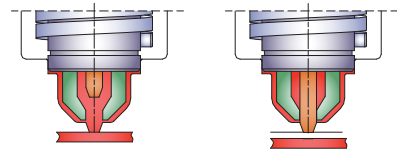
序號 Item	部件名稱	Parts Name	
01	閥針	VALVE PIN	
02	鈹銅頭	BeCu PROBE	
03	熱嘴本體	NOZZLE BODY	
04	加熱線圈	COIL HEATER	
05	閥針支撐環	VALVE SUPPORT RING	
06	本體定位銷	BODY DOWEL PIN	
07	閥針引導器	VALVE PIN DRIVE BUSHING	
08	引導器定位銷	PIN GUIDE	
09	O型環	鋁	"O" RING-aluminum
		不銹鋼	"O" RING-stainless steel
10	下墊塊	LOW SUPPORT PAD	
11	中心墊塊	CENTRAL LOCATOR	
12	定位銷	DOWEL PIN	
13	熱流板	MANIFOLD	
14	上墊塊	UPPER SUPPORT PAD	
15	氣缸本體定位銷	CYLINDER TUBE DOWEL PIN	
16	O型環	"O" RING	
17	氣缸本體	標準型	STANDARD CYLINDER TUBE
		定位型	LOCATING CYLINDER TUBE
18	O型環	"O" RING	
19	活塞本體	可調式	FLEXIBLE PISTON
		固定式	BUILD-IN PISTON

序號 Item	部件名稱	Parts Name	
20	O型環	"O" RING	
21	O型環	"O" RING	
22	扣環	RETAINING RING	
23	閥針塞	VALVE-NEEDLE PLUG	
24	活塞本體調整環	PISTON ADJUSTER RING	
25	活塞本體定位銷	PISTON DOWEL PIN	
26	彈簧	SPRING	
27	氣缸後蓋	CYLINDER END CAP	
28	O型環	"O" RING	
29	定位環	LOCATING RING	
30	保護蓋	PROTECTION CAP	
31	墊片	WASHER	
32	加長延長頭	INJECTION BUSHING	
33	延長頭	INJECTION BUSHING	
34	熱嘴小頭	NOZZLE CAP	
35	嘴針	NOZZLE TIP	
36	熱嘴本體	NOZZLE BODY	
37	線圈式電熱	線圈式電熱	COIL HEATER
		銅套式電熱	CASTING TYPE HEATER
38	外殼	NOZZLE HOUSING	
39	本體定位銷	BODY DOWEL PIN	
40	耐壓塊	PRESSURE BLOCK	

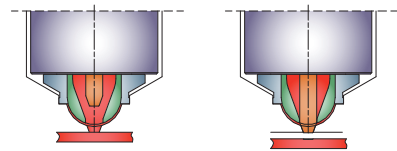
型號 / Type

說明 / Attention

使用優點及應用 / Advantage of use

針閥澆口 VALVE GATE


VG Type



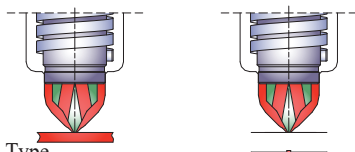
VLC Type

- * 氣動針閥式澆口
- * 澆口區域由客戶加工
- * VG nozzle is pneumatic operated shut off valve gate

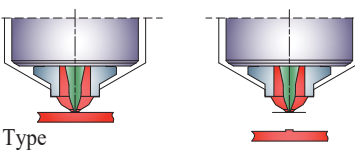
- * 氣動針閥式澆口
- * 澆口區域由客戶加工
- * VLC nozzle is pneumatic operated shut off valve gate

- * 產品澆口較為美觀，但較不易換色。
- * 適用於交通器材如保險杆、車門板或車燈成型、食品容器以及產品需要分段射出，設定時間關閉澆口，並能夠控制結合線等條件。
- * Good & smooth gate vestige on part surface but bad color change ability.
- * Highly applicable to automobile molding such as bumper, internal panel, lamp cover and food container as well as products demanding shot segment, setting time to switch on/off gate, capable to control weld line, etc.

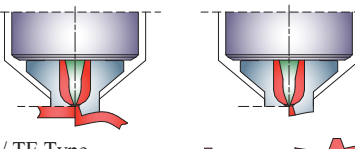
- * 產品澆口較為美觀、易換色。
- * 適用於車燈成型、3C產品、TV外殼、運動用品以及產品需要分段射出，設定時間關閉澆口，並能夠控制結合線等條件。
- * Good & smooth gate vestige on part surface with good color change ability.
- * Highly applicable to automobile, lamp cover and 3C products, TV casing, sporting goods as well as products demanding shot segment, setting time to switch on/off gate, capable to control weld line, etc.

針點澆口 PINPOINT GATE


G Type



L Type



T / TE Type

T TE

- * 針點式澆口開放熱嘴 (帶換色套的可換色)
- * 澆口區域由客戶加工
- * G nozzle equipped with torpedo tip

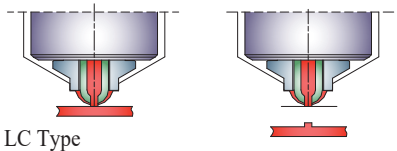
- * 針點式澆口開放熱嘴
- * 澆口區域由客戶加工
- * L nozzle equipped with torpedo tip

- * 有襯套頭之針點澆口
- * T/TE nozzle equipped with torpedo bush

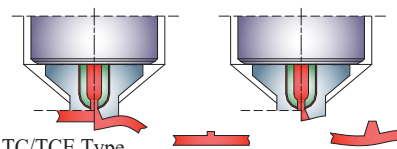
- * 產品澆口痕跡小。
- * 射點間距小，適合多穴同時進膠
- * 換色時需配合換色套，以縮短換色時間。
- * Small gate vestige on part surface.
- * Good material flow ability for direct gating.
- * Minimum distance between tips, excellent choice for multi cavity.
- * Highly applicable to general plastics.
- * Low color change capability can be compensate by insulation insert.

- * 產品澆口痕跡小。
- * 灌嘴的優點與G系列相同且無換色問題。
- * 灌嘴尺寸與流道尺寸比G系列的選擇多且適合泛用塑膠使用。
- * Small gate vestige on part surface.
- * The merits for this gate type are similar to G series.
- * More dimensions and flow channel size availability.

- * 襯套頭可依模穴形狀加工。
- * 澆口磨耗容易替換。
- * 模穴加工容易。
- * Bush end can be machined to suit most cavity curve.
- * Stopping drooling.
- * No cavity gate wear occurs and make gate replacement easier.
- * Good color change ability.
- * Nozzle seat machining easy.
- * The cooling ability around the gate is critical.

直心澆口 OPEN GATE


LC Type



TC/TCE Type

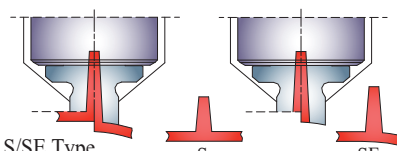
TC TCE

- * 直心澆口的開放熱嘴
- * 可換色
- * 澆口區域由客戶加工
- * LC nozzle equipped with open tip

- * 有襯套頭之直心澆口
- * TC/TCE nozzle equipped with open bush

- * 塑料在流道內流動能力佳，換色容易。
- * 熱傳導性良好，避免澆口失溫封阻。
- * 澆口痕跡優於豎澆道。
- * Excellent material flow ability and good color changeability.
- * Good thermo conductivity, the open tip avoids the gate freeze up.
- * Eliminates flow lines from nozzle.
- * Minimum mark
- * Highly applicable to general plastics.

- * 模穴加工容易。
- * 熱傳導性良好。
- * 澆口磨耗容易替換。
- * The merits for this gate type are similar to T and LC series.
- * Good thermo conductivity.
- * Highly applicable to general plastics.
- * Nozzle seat machining easy.
- * The cooling ability around the gate is critical.

豎澆口 SPRUE GATE


S/SE Type

S SE

- * 有襯套頭之豎澆口
- * S/SE nozzle equipped with SPRUE GATE

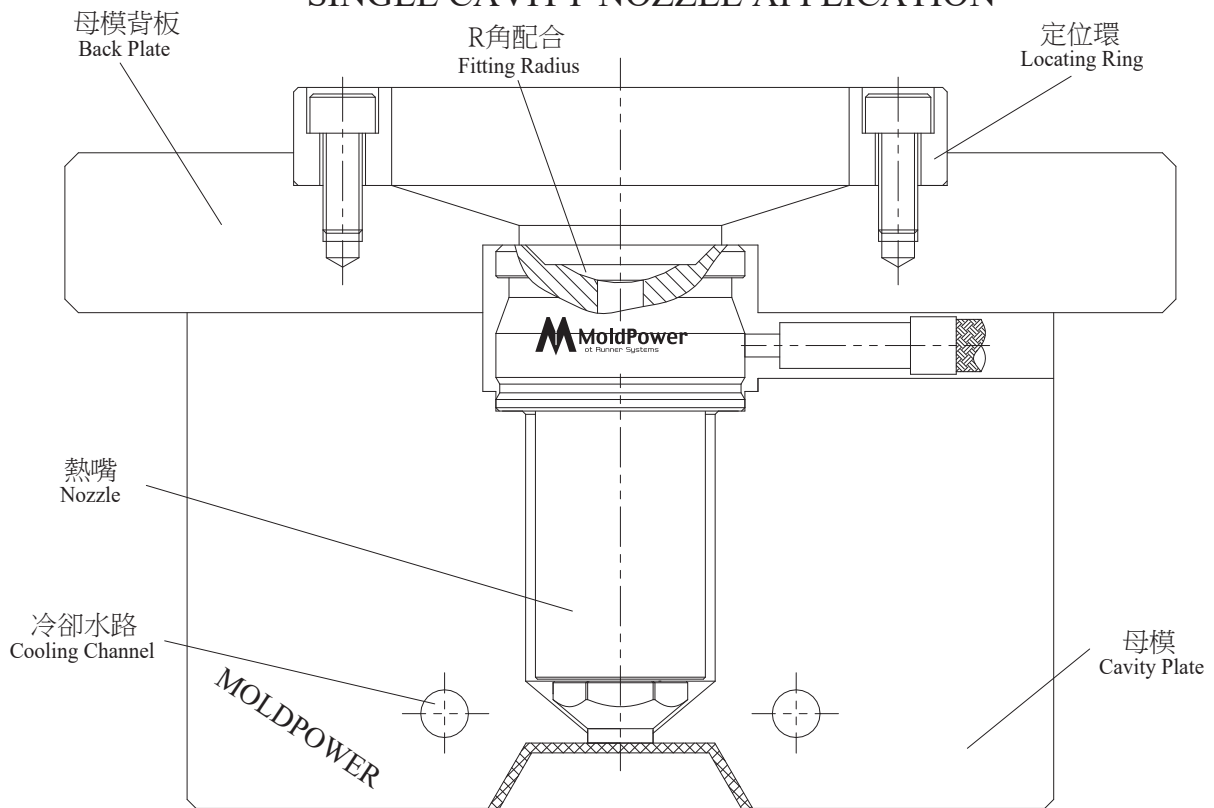
- * 適合大型成品件。
- * 適合含添加劑塑料且較無殘留應力問題。
- * 襯套頭可依模具形狀加工。
- * 注重澆口旁的冷卻水路。
- * Suitable for large part.
- * Suitable for difficult filling material without residual stress on parts.
- * Bush end can be machined to suit most cavity curve.
- * The cooling ability around the gate is critical.

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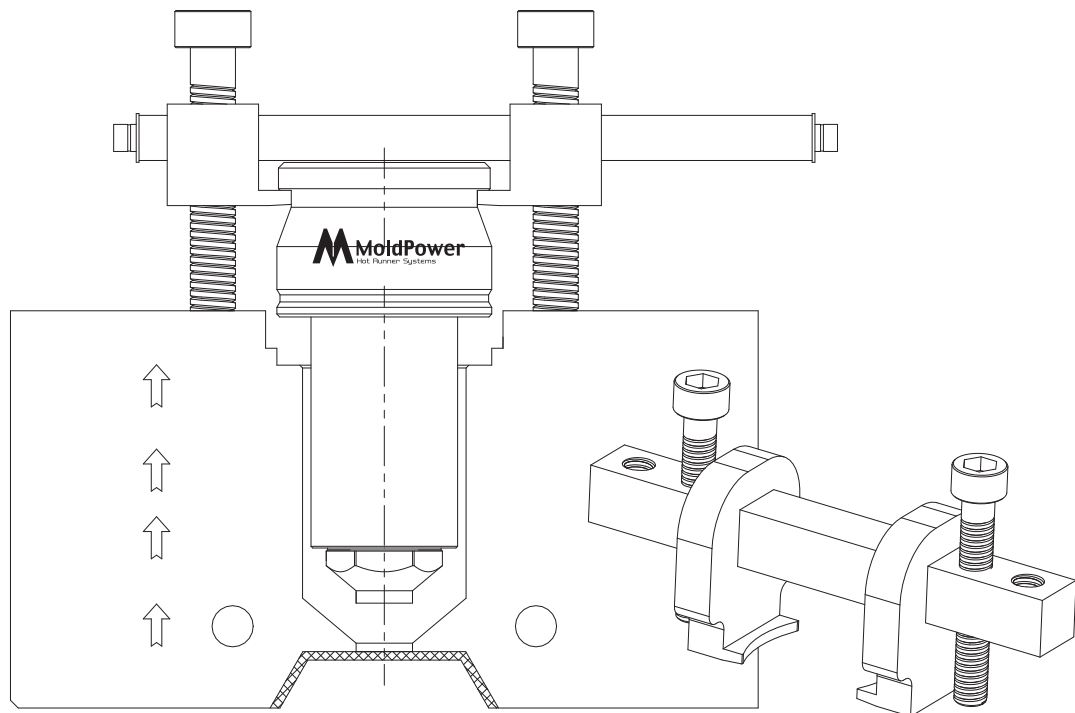
單穴熱嘴應用

SINGLE CAVITY NOZZLE APPLICATION

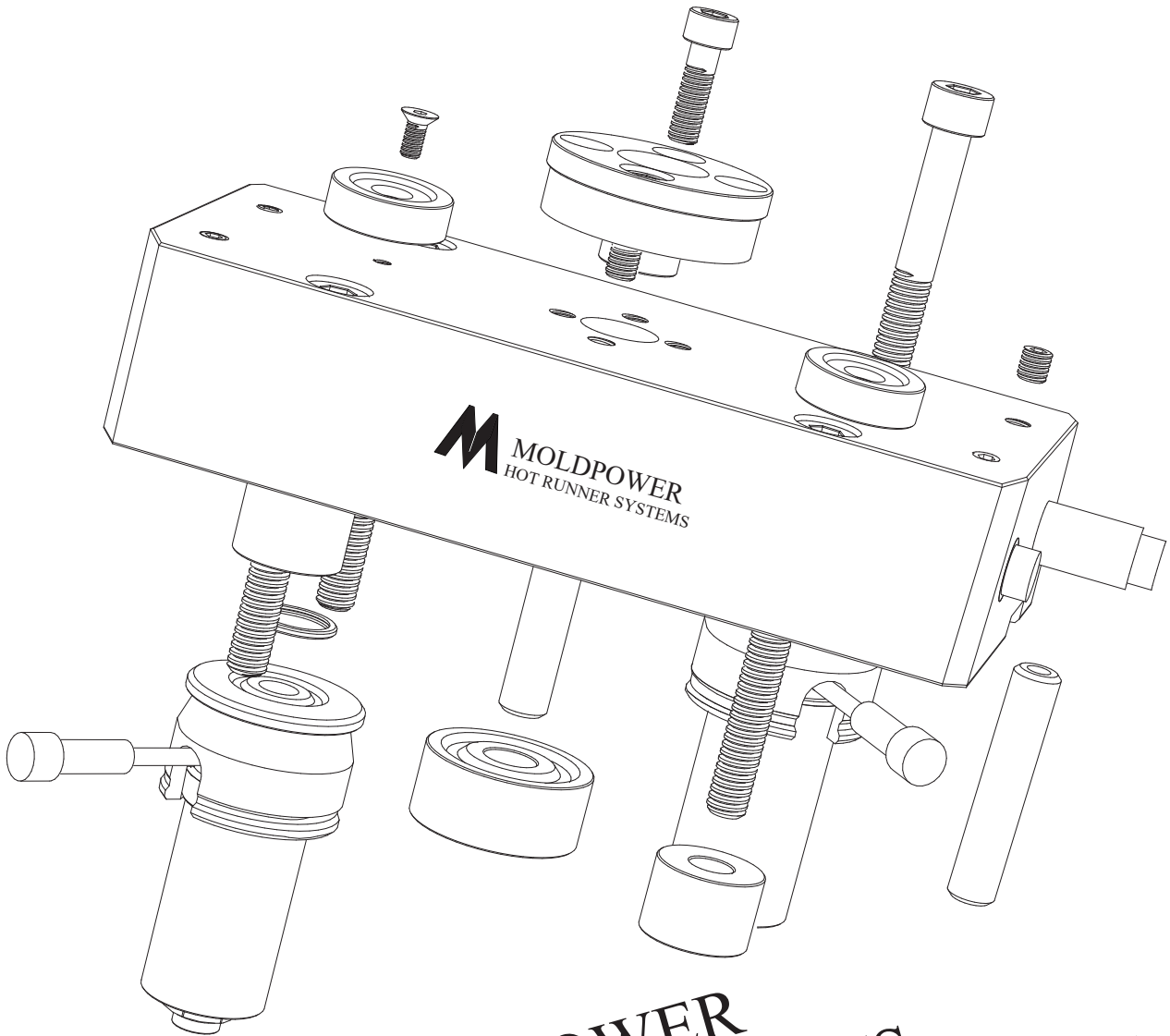


熱澆道治具應用

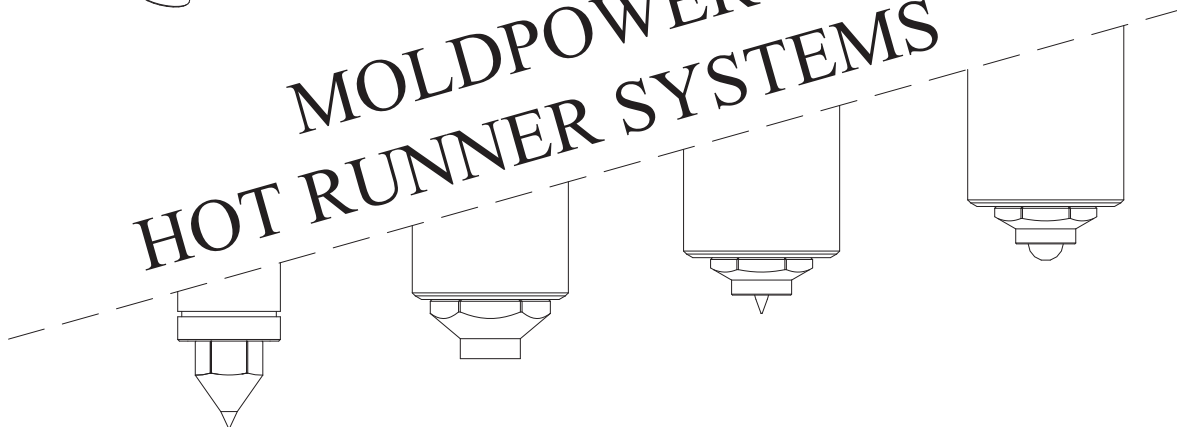
FIXTURE APPLICATION



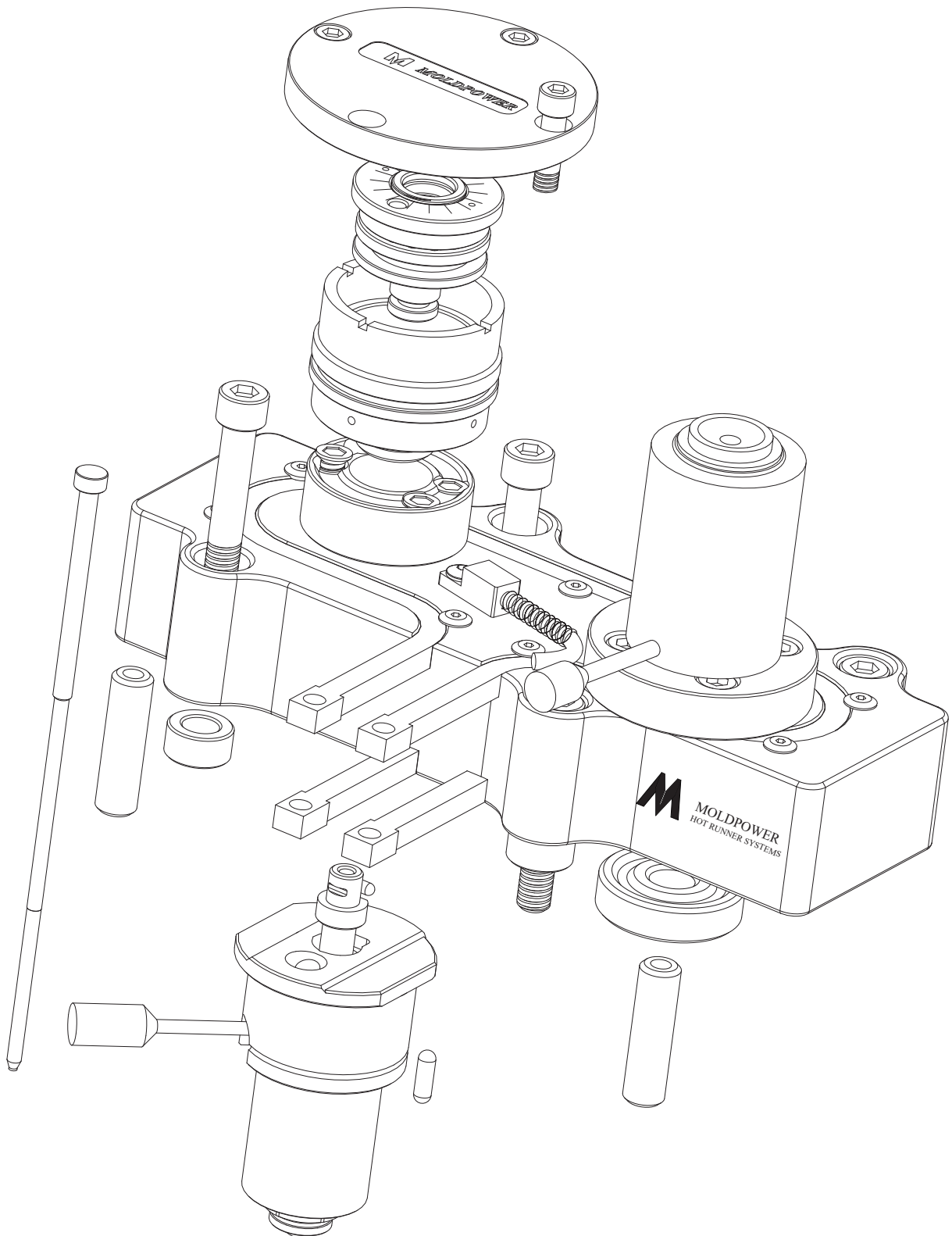
多穴熱嘴應用
MULTI-CAVITY NOZZLE APPLICATION



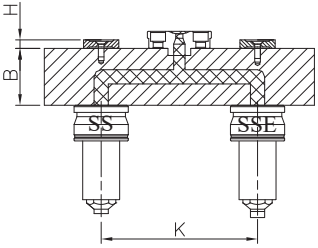
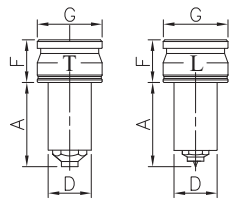
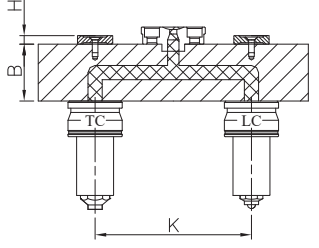
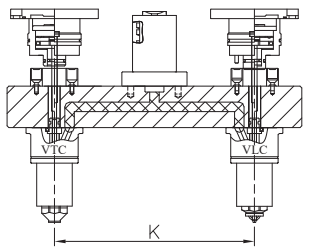
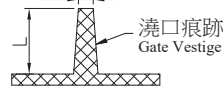
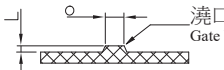
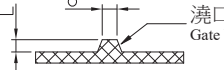
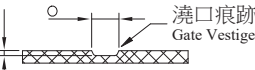
MOLDPOWER
HOT RUNNER SYSTEMS



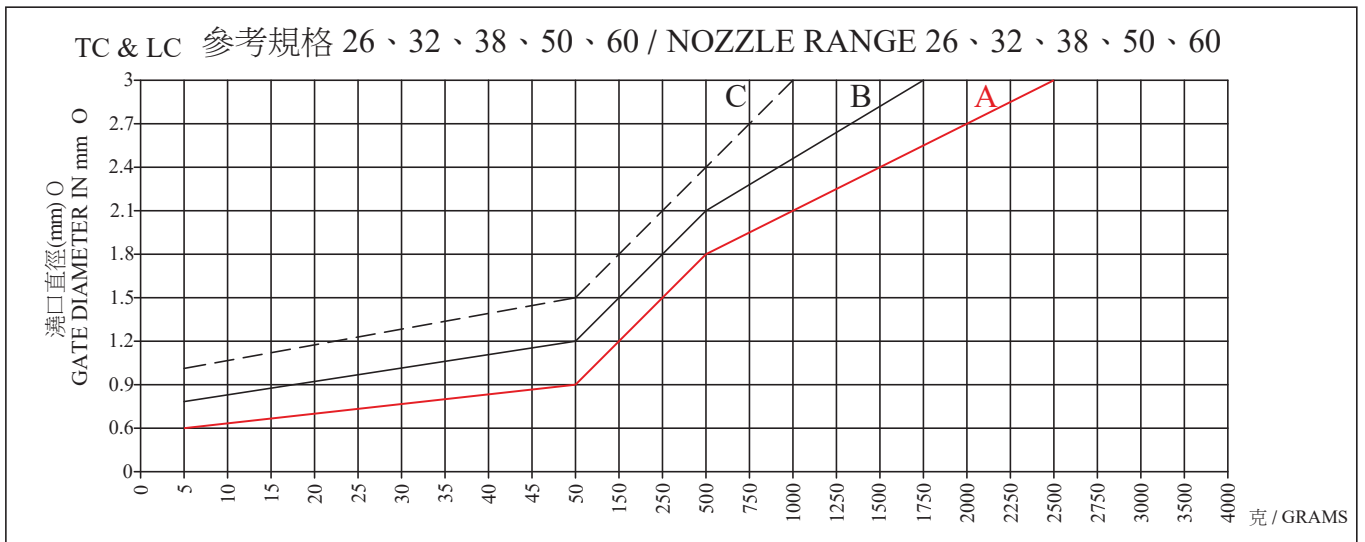
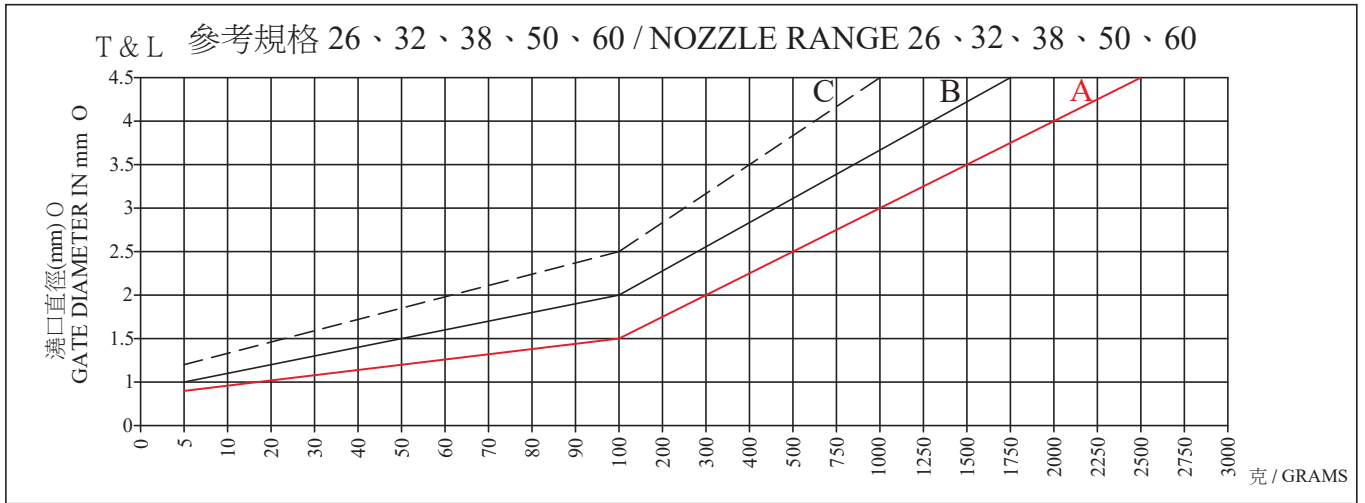
針閥式熱嘴應用
VALVE GATE NOZZLE APPLICATION



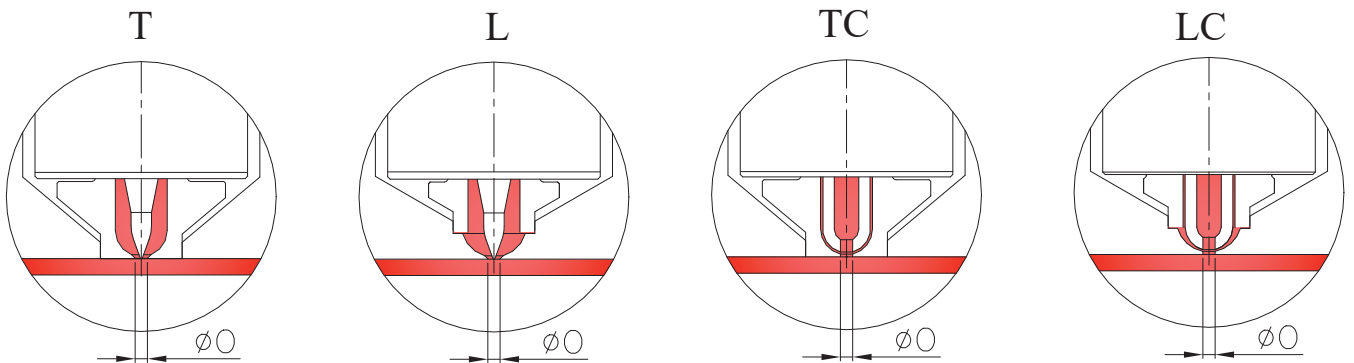
各型式熱嘴選擇參考表 / NOZZLE SELECTION TABLE

		豎澆口 / Sprue Gates	針點澆口 / Pinpoint Gates	直心澆口 / Open Gates	閥澆口 / Valve Gates																																						
																																											
																																											
		☆☆☆☆ 極優 / Excellent ☆☆☆☆ 優 / Very Good ☆☆☆☆ 好 / Good ☆☆☆☆ 不推薦 / Not Recommended	<table border="1"> <tr> <th colspan="5">CMS/CMM - SS</th> <th colspan="5">CMS/CMM - T+L</th> <th colspan="5">CMS/CMM - TC+LC</th> <th colspan="3">CMM - VLC+VTC</th> </tr> <tr> <td>26</td><td>32</td><td>38</td><td>50</td><td>60</td> <td>26</td><td>32</td><td>38</td><td>50</td><td>60</td> <td>26</td><td>32</td><td>38</td><td>50</td><td>60</td> <td>40</td><td>50</td><td>60</td> </tr> </table>					CMS/CMM - SS					CMS/CMM - T+L					CMS/CMM - TC+LC					CMM - VLC+VTC			26	32	38	50	60	26	32	38	50	60	26	32	38	50	60	40	50	60
CMS/CMM - SS					CMS/CMM - T+L					CMS/CMM - TC+LC					CMM - VLC+VTC																												
26	32	38	50	60	26	32	38	50	60	26	32	38	50	60	40	50	60																										
最大射出量 (公克) Injectable Volumes (gram)	低黏度 / Low Viscosity (PS . PE . PP)	160	400	700	2400	4500	100	250	500	1500	3000	150	350	600	2000	4000	400	1000	2000																								
	中黏度 / Medium Viscosity (ABS . POM . PMMA)	80	250	450	1200	3000	50	150	300	800	2000	70	200	400	1000	2500	100	500	1000																								
	高黏度 / High Viscosity (PC . PETG . PEI)	45	200	300	800	1600	30	80	200	500	1000	40	100	250	700	1500	50	200	400																								
塑膠種類 Plastic types	低黏度 / Low Viscosity	☆☆☆☆					☆☆☆☆					☆☆☆☆					☆☆☆☆																										
	中黏度 / Medium Viscosity	☆☆☆☆					☆☆☆☆					☆☆☆☆					☆☆☆☆																										
	高黏度 / High Viscosity	☆☆☆☆					☆☆☆☆					☆☆☆☆					☆☆☆☆																										
	發泡劑 / Foaming Agent	☆☆					☆☆					☆☆					☆☆																										
	玻璃纖維 / Glass Fiber	☆☆☆☆					☆☆☆☆					☆☆☆☆					☆☆☆☆																										
	耐燃劑 / Flame Retardant	☆☆					☆☆					☆☆					☆☆																										
	硬質 PVC / Harden PVC	☆☆☆☆					☆☆☆☆					☆☆☆☆					☆☆☆☆																										
熱嘴性質 Nozzle Types	澆口美觀性 / Gate Vestige	SS/ST/STC = ☆					T/L = ☆☆☆					LC / TC = ☆☆☆					VLC / VTC = ☆☆☆☆																										
	加熱型式 / Melt Heating	外熱式 / External Heated					外熱式 / External Heated					外熱式 / External Heated					外熱式 / External Heated																										
相關位置配合參考尺寸表 Nozzle dimensions	O < Ø >	1.5	2	2	3	4	參考澆口大小選擇表 / Gate Diameters										min Ø1.5	min Ø2.0	min Ø3.5																								
	L	10	12	12	15	18	*O: Varied with gate diameter 依 O 直徑尺寸決定										max Ø2.5	max Ø3.0	max Ø4.5																								
	G < Ø >	26	32	38	50	60	26	32	38	50	60	26	32	38	50	60	40	50	60																								
	F	15	20	25	30	35	15	20	25	30	35	15	20	25	30	35	30	35	40																								
	D < Ø >	17	22	25.5	34	44	17	22	25.5	34	44	17	22	25.5	34	44	30	37	45																								
	A < 最小 / Min >	45	45	50	55	65	45	45	50	50	65	45	45	50	55	65	50	55	65																								
	A < 最大 / Max >	請參考第 18-20 頁 Please refer to page 18- 20																																									
	B (use for tubular heater only)	35	35	38	40	40	35	35	38	40	40	35	35	38	40	40	35	38	40																								
	H (for std.)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	15	15	15																								
	K < 最小 / Min >	27	33	40	52	63	27	33	40	52	63	27	33	40	52	63	65	77	85																								

計算澆口直徑曲線圖 / GRAPH TO CALCULATE GATE DIAMETER



- A** — 低黏性材料 / Material of low viscosity : PE - PP - PS - SB
B — 中黏性材料 / Material of medium viscosity : PA - POM - ABS - PMMA
C - - - 高黏性材料 / Material of high viscosity : PC - PPS - PEI



注：此圖僅供參考，除射膠量影響澆口大小外，還需考慮到產品形狀、厚度、注射壓力、注射速度、模具溫度、澆口處溫度分佈、澆口處冷卻狀況等。

Note: The chart is for reference only, except plastic injection material quantities determined by gate size, shape of product, product thickness, injection pressure, injection speed, temperature of mold, temperature profile of the gate and cooling at gate point.

技術問卷調查表

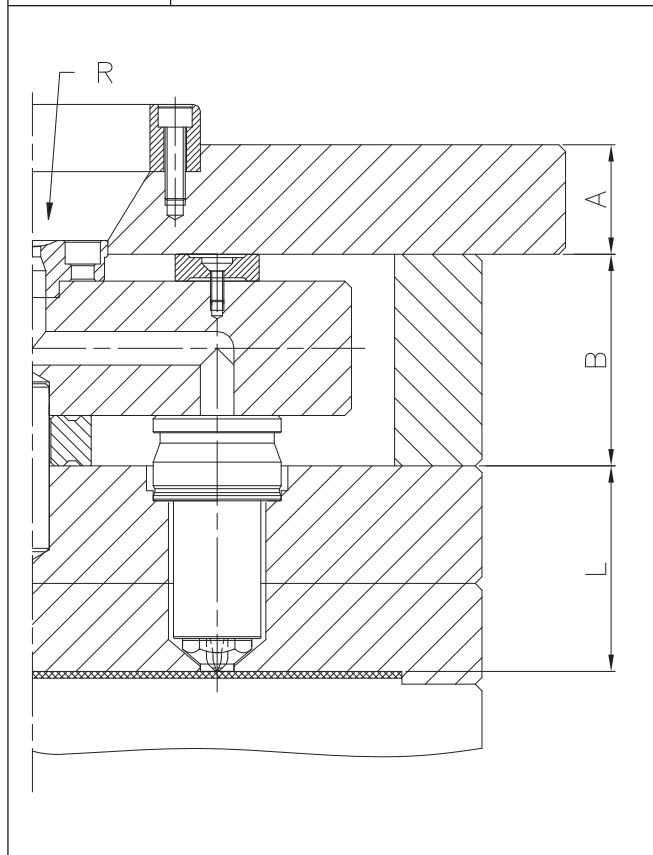
QUOTATION WORKSHEET

 日期： 年 月 日
 DATE

客戶名稱 CLIENT NAME		圖名編號 DRAWING NO	
模具編號 MOLD SERIAL NO		交貨期需求 LEAD TIME REQUEST	
聯繫電話 TELEPHONE		傳真 FAX	
聯繫人 CONTACT PERSON		E-mail	

成品資料:
 PART DESCRIPTION

成品名稱 PART NAME	成品尺寸 PART SIZE	平均肉厚 MEDIUM THICKNESS	
成品重量 PART WEIGHT	塑膠材質 PART MATERIAL	澆口處肉厚 GATING THICKNESS	
成品數量 NO OF CAVITIES	熱澆道穴數 NO. OF NOZZLES	換色 COLOR CHANGE	<input type="checkbox"/> YES <input type="checkbox"/> NO
澆口大小 GATE DIAMETER	進澆方式 INJECTION DIRECTION	<input type="checkbox"/> 公模 <input type="checkbox"/> 母模 CORE PLATE CAVITY PLATE	模組型式 MOLD SITUATION
澆口位置 GATING STYLE	<input type="checkbox"/> 成品上 DIRECT	<input type="checkbox"/> 流道上 SPRUE	<input type="checkbox"/> 新模 <input type="checkbox"/> 舊模 NEW OLD



其它 MEMO			
出澆數量 GATE NO	長度 LENGTH L	座標 COORDINATE X	座標 COORDINATE Y
G1			
G2			
G3			
G4			
G5			
G6			
G7			
G8			
A	mm	B	mm
L	mm	R	mm

 進澆座標值:
 REFERENCE POSITION

(UL)	Y	(UR)
	(0,0)	X
(DL)		(DR)

 其它資料:
 OTHER INFORMATION

 客戶簽名： _____
 CLIENT CONFIRMATION



CAE模流分析問卷調查表

CAE ANALYSIS WORKSHEET

日期: 年 月 日
DATE

Table with 4 columns: Client Name, Drawing No, Lead Time Request, Fax, Contact Person, E-mail

成品資料: PART DESCRIPTION

Table with 6 columns: Part Name, Part Size, Part Material, Part Weight, Part Material, No. of Cavities, No. of Nozzles, Gate Diameter, Injection Direction, Core Plate, Cavity Plate, Gating Style, Medium Thickness, Gating Thickness, Mold Situation, Others

射出機資料: MACHINE DETAILS

Table with 6 columns: Machine Nameplate, Machine Grade, Machine Clamping Force, Part Material, Part Material MFI Value, Part Material Type

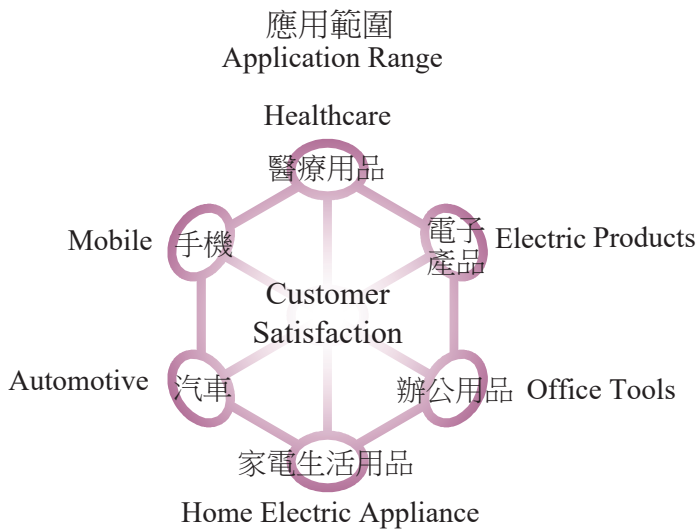
簡圖: SKETCH:

其它資料: OTHER INFORMATION:

PS. 模流分析需要客戶提供成品3D檔(*.IGS或STEP)並請附上2D模具圖 (*DWG), 含澆口位置及水路配置, 一般模流分析需要7個工作天, 如果特殊需求請註明.

PS: PLEASE PROVIDE 3D FINISHED PARTS DWG. (*.IGS OR STEP) & 2D MOULD DWG (*.DWG) WITH SPECIFIED GATE DIAMETER & COOLING CHANNEL. CAE ANALYSIS COMPLETE WITHIN 7 WORKING DAYS.PLEASE SPECIFIED FOR SPECIAL ORDER.

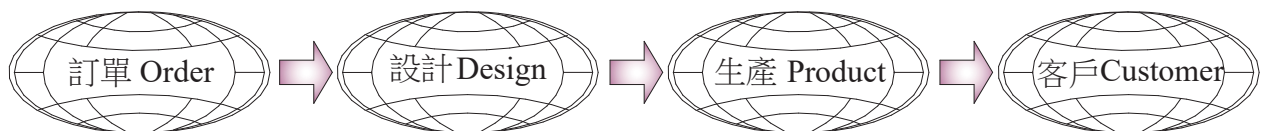
客戶簽名: CLIENT CONFIRMATION



研發範圍 Research & Developing Range

- 半熱流道 Semi Hot Runner
- 斜模進膠 Side Gate
- 工程塑料應用 Practical Engineering Plastics
- 小型熱嘴 Small Nozzle

快速交貨系統 Quick delivery system



交貨期
The time of customers receive our products

標準零件 Standard Part	→	→	1-3天 one-three days
標準系統 Standard System	→	→	7天 Seven days
特製系統 Special System	→	→	14天 Fourteen days
CAE模流分析 CAE Analysis	→	→	1-7天 one-seven days

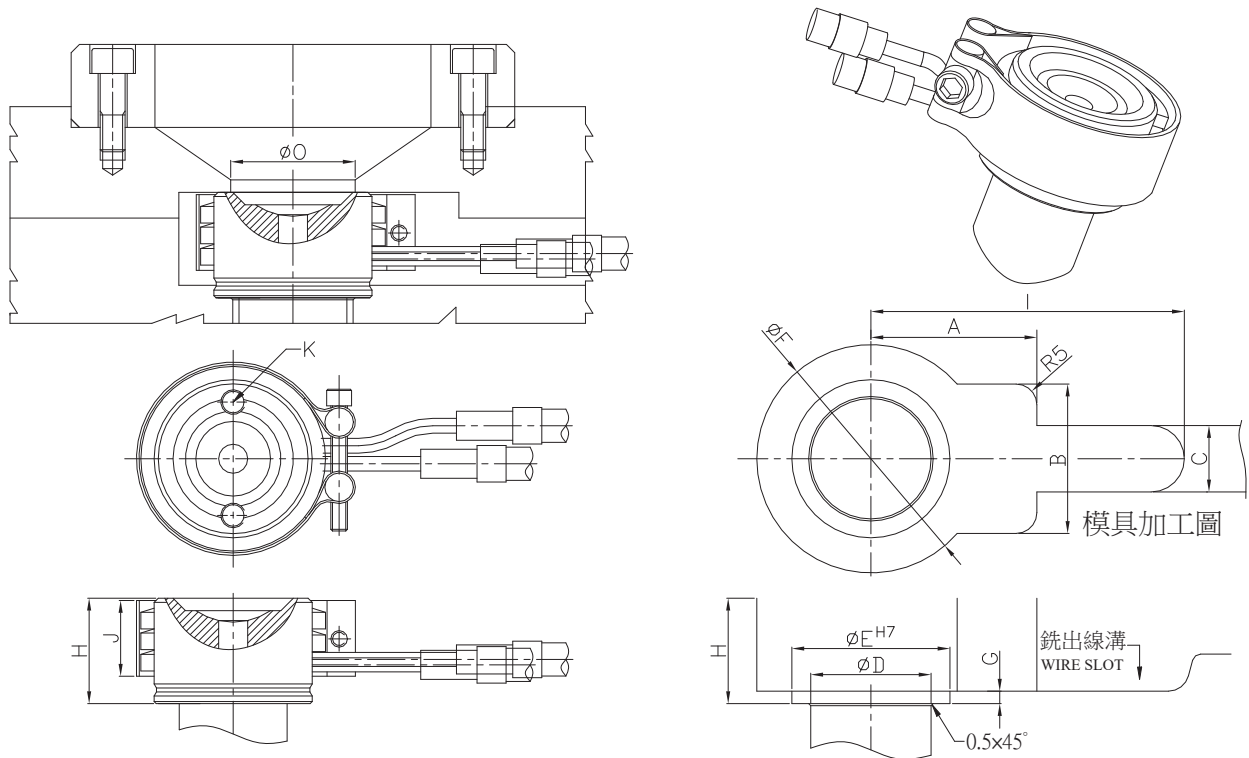
業務範圍: Business scope

◎ 提供整套熱流道系統製造。

Provide the complete set of the hot runner system.

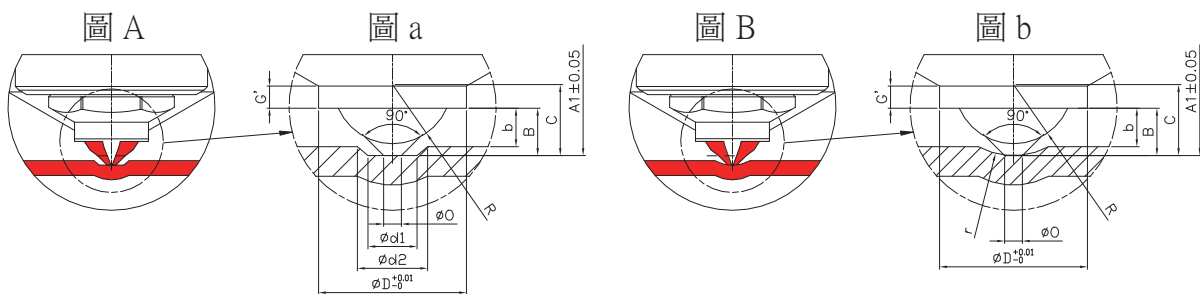
- 》提供系統中各型配件，如本體、小頭、小針，各型發熱圈電熱、感溫線、加熱棒、溫控器、接插件及系統上其他配件。
Provide the accessories for the system like the main unit, small nozzles, small pins, coil heaters, thermocouples, cartridge heaters, temperature controllers, connectors and other accessories.
- 》提供前後工程設計指導，包括設計、圖面報告、電腦輔助工程模流分析、製造、安裝、測試、維修及保修等服務。
Provide the guidelines for the pre & post engineering design which including the design, illustration, professional CAE for injection molding, manufacturing, installation, testing, repairing and maintenance.
- 》提供深孔加工服務，加工範圍：模具、水孔頂針孔、機械零件、電熱管孔。
Provide the deep hole drilling application which used in mold, channel, machine components and tubular heaters.

CMS-38/50/60單穴熱嘴大頭保溫模具加工尺寸圖
Single cavity nozzle bottomend heater's seat machining drawing



熱嘴型號	A	B	C	ØD	ØE	ØF	G	H	I	J	K	ØO	瓦特數W
CMS-38	40	40	22	Ø28	Ø38	Ø55	3	25	85	18	M5	Ø33	290W
CMS-50	45	40	22	Ø38	Ø50	Ø65	3	30	90	20	M5	Ø45	400W
CMS-60	50	45	25	Ø48	Ø60	Ø75	4	35	100	25	M6	Ø55	470W

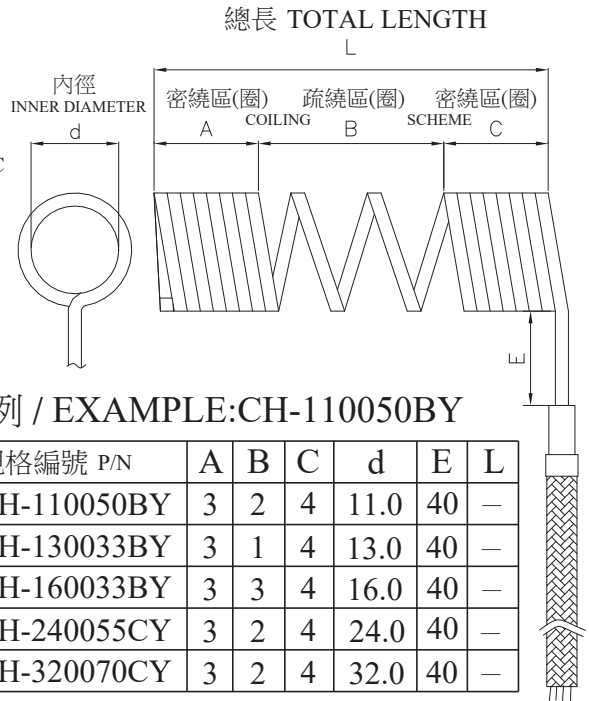
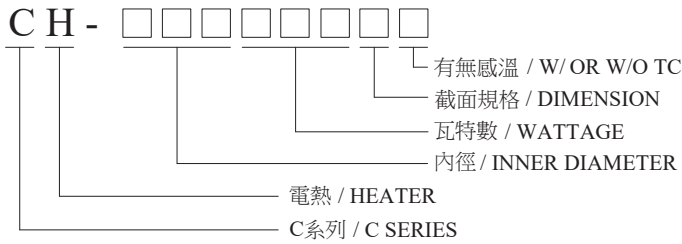
CMS/CMM-26/32/38/50/60-L 型系列嘴頭加工尺寸選擇參考圖
L type nozzle seat machining selection table, please refer as below:



熱嘴型號	B	b	C	R	r (min)	G'	ØD	Ød1 (min)	Ød2 (min)	(min) ØO (max)
CMM-26-L	3	2.5	3.6	3.1	4	1.5	8	2.5	3.7	0.6~1.2
CMS/CMM-32-L	4	3.4	4.1	3.5	5	1.8	9	3	4.5	0.8~1.5
CMS/CMM-38-L	4	3.4	5.5	4.7	5	2	12	4	5.5	1.0~1.8
CMS/CMM-50-L	6	5.2	9	7.6	8	3	18	5	7	1.5~2.5
CMS/CMM-60-L	8	7.2	13	11.2	12	4	26	6	8	2.5~3.5

線圈式加熱器規格編號說明

Nozzle coil heater's specification & part number



電熱截面規格及有無感溫標示說明

Coil heater dimension and with or without their mocouple's indication

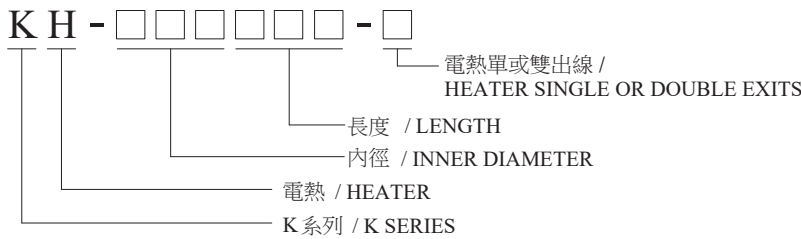
截面規格 DIMENSION	有無感溫 W/ OR W/O TC
3.2x3.2 C	無感溫 N W/O TC
4.3x2.2 B	有感溫 Y W/TC

範例 / EXAMPLE: CH-110050BY

項次 ITEM	規格編號 P/N	A	B	C	d	E	L
1	CH-110050BY	3	2	4	11.0	40	—
2	CH-130033BY	3	1	4	13.0	40	—
3	CH-160033BY	3	3	4	16.0	40	—
4	CH-240055CY	3	2	4	24.0	40	—
5	CH-320070CY	3	2	4	32.0	40	—

銅套式加熱器規格編號說明

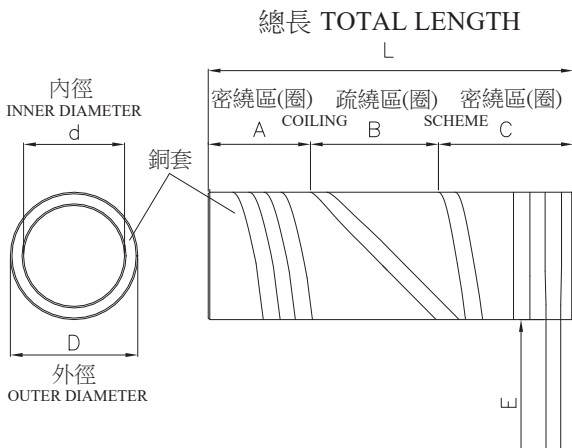
Nozzle Casting heater's specification & part number



電熱單或雙頭出線標示說明

Heater single or double exits indication

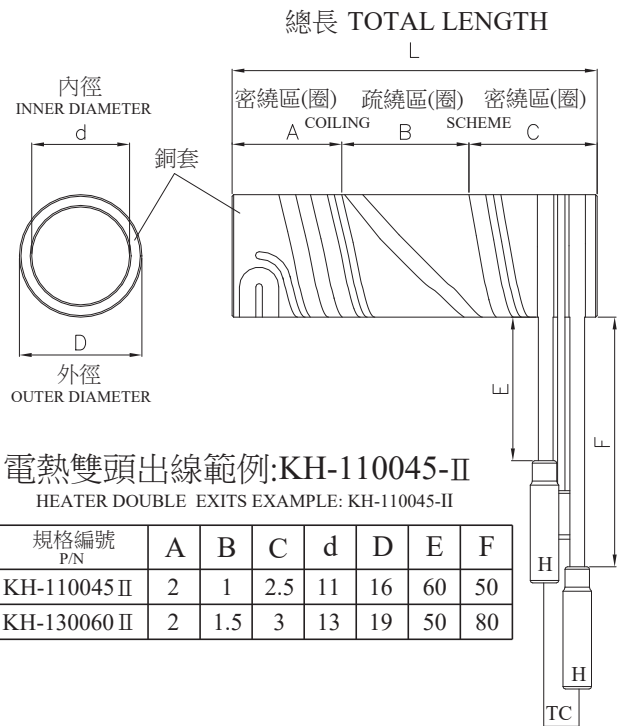
電熱單頭出線 HEATER SINGLE EXITS	I
電熱雙頭出線 HEATER DOUBLE EXITS	II



電熱單頭出線範例: KH-240088-I

HEATER SINGLE EXITS EXAMPLE: KH-240088-I

項次 ITEM	規格編號 P/N	A	B	C	d	D	E
1	KH-160082 I	2.5	2	4	16	26	40
2	KH-240088 I	3	2	4	24	34	40
3	KH-320106 I	3	2.5	4.5	32	42	40

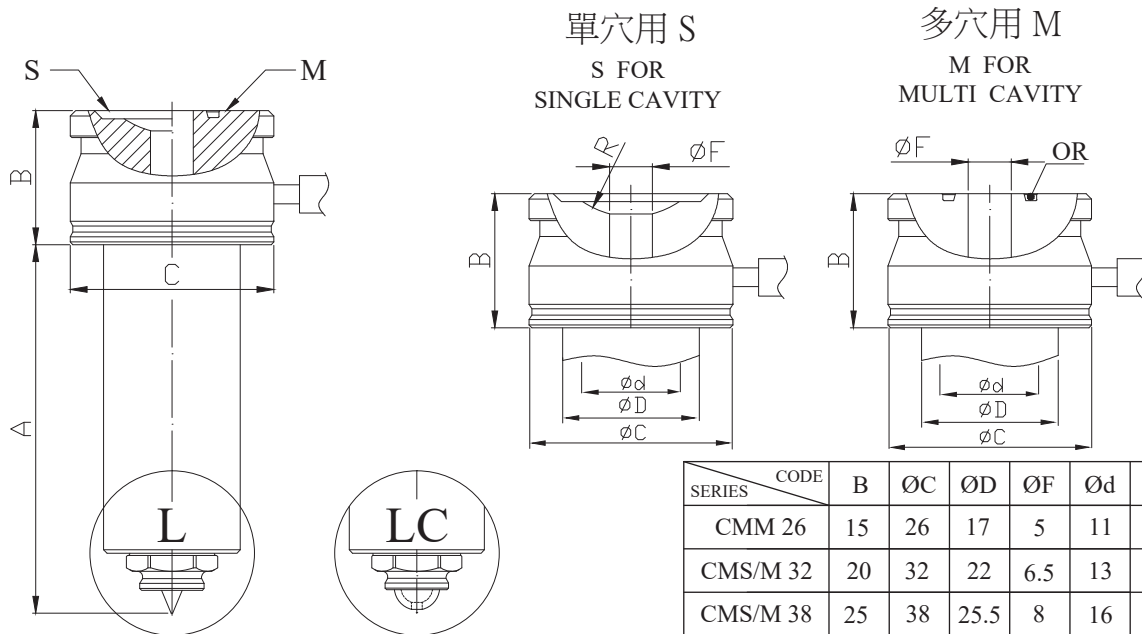


電熱雙頭出線範例: KH-110045-II

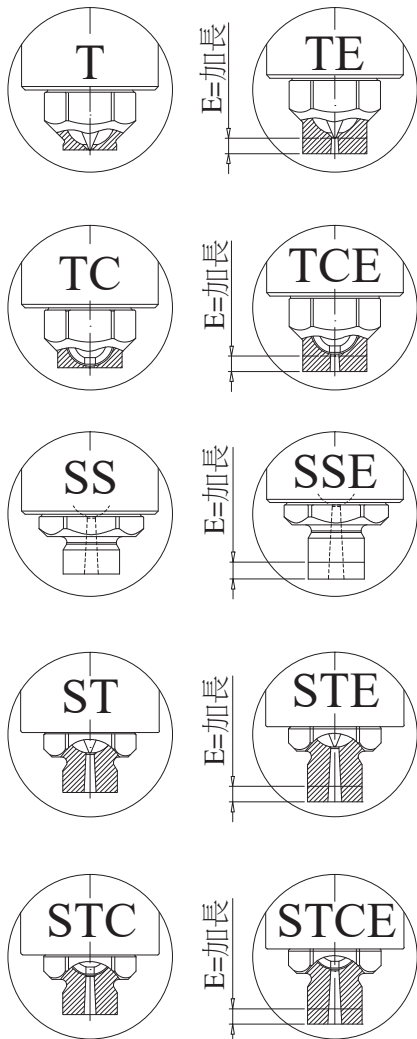
HEATER DOUBLE EXITS EXAMPLE: KH-110045-II

項次 ITEM	規格編號 P/N	A	B	C	d	D	E	F
1	KH-110045 II	2	1	2.5	11	16	60	50
2	KH-130060 II	2	1.5	3	13	19	50	80

各式熱嘴規格 Various specifications of nozzles



SERIES	CODE	B	ØC	ØD	ØF	Ød	OR
CMM 26		15	26	17	5	11	608
CMS/M 32		20	32	22	6.5	13	610
CMS/M 38		25	38	25.5	8	16	620
CMS/M 50		30	50	34	12	24	635
CMS/M 60		35	60	44	18	32	650

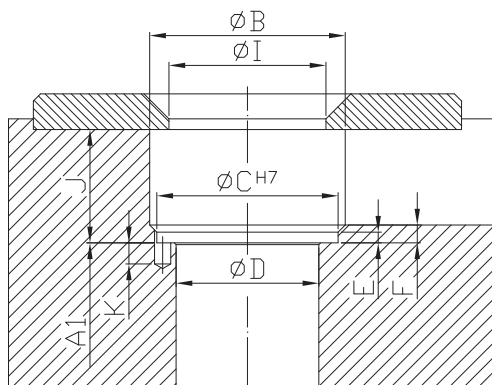
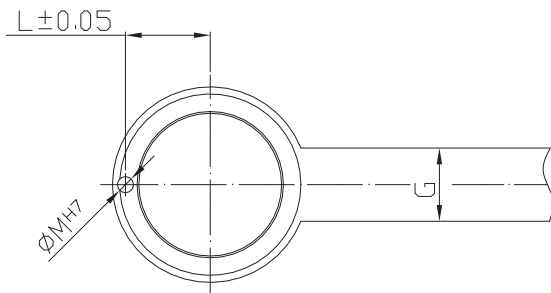


	A mm	CMS	R	CMM	緊固扭矩 IN/m=10.1972kgf/cm	
					L / T type	S type
CMM26	45	-----	---	26045	L / T type	135kgf · cm
	55	-----	---	26055	L / T type	250kgf · cm
	65	-----	---	26065	S type	160kgf · cm
	75	-----	---	26075	S type	280kgf · cm
CMS/M32	45	32045	16	32045	L / T type	250kgf · cm
	60	32060	16	32060	L / T type	250kgf · cm
	75	32075	16	32075	S type	280kgf · cm
	90	32090	16	32090	S type	280kgf · cm
CMS/M38	50	38050	16	38050	L / T type	360kgf · cm
	65	38065	16	38065	L / T type	360kgf · cm
	80	38080	16	38080	S type	400kgf · cm
	95	38095	16	38095	S type	400kgf · cm
CMS/M50	55	50055	21	50055	L / T type	880kgf · cm
	70	50070	21	50070	L / T type	880kgf · cm
	85	50085	21	50085	S type	1600kgf · cm
	100	50100	21	50100	S type	1600kgf · cm
CMS/M60	65	60065	21	60065	L / T type	1100kgf · cm
	85	60085	21	60085	L / T type	1100kgf · cm
	105	60105	21	60105	S type	1900kgf · cm
	125	60125	21	60125	S type	1900kgf · cm

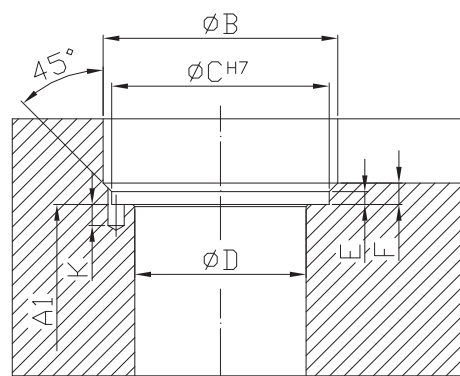
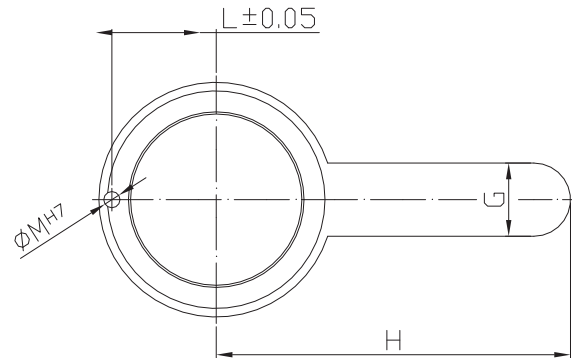
* 以上各規格最大A尺寸長度請參考第18-20頁表格 *
 * For max. length A refer to the table from page 18-20 *

CMS/M 26-32-38-50-60 TYPE

單穴 SINGLE CAVITY



多穴 MULTI CAVITY



Series	Code	ØB	ØC	ØD	E	F	G	H	ØI	J	K	L	ØM
CM 26		29	26	19	2.5	4	10	85	---	15	5	12	3
CM 32		35	32	24	2.5	4	12	85	27	20	5	15	3
CM 38		41	38	28	3	4.5	12	85	33	25	5	18	3
CM 50		54	50	38	3	5	12	90	45	30	6	24	5
CM 60		64	60	48	4	6	16	100	55	35	6	29	5

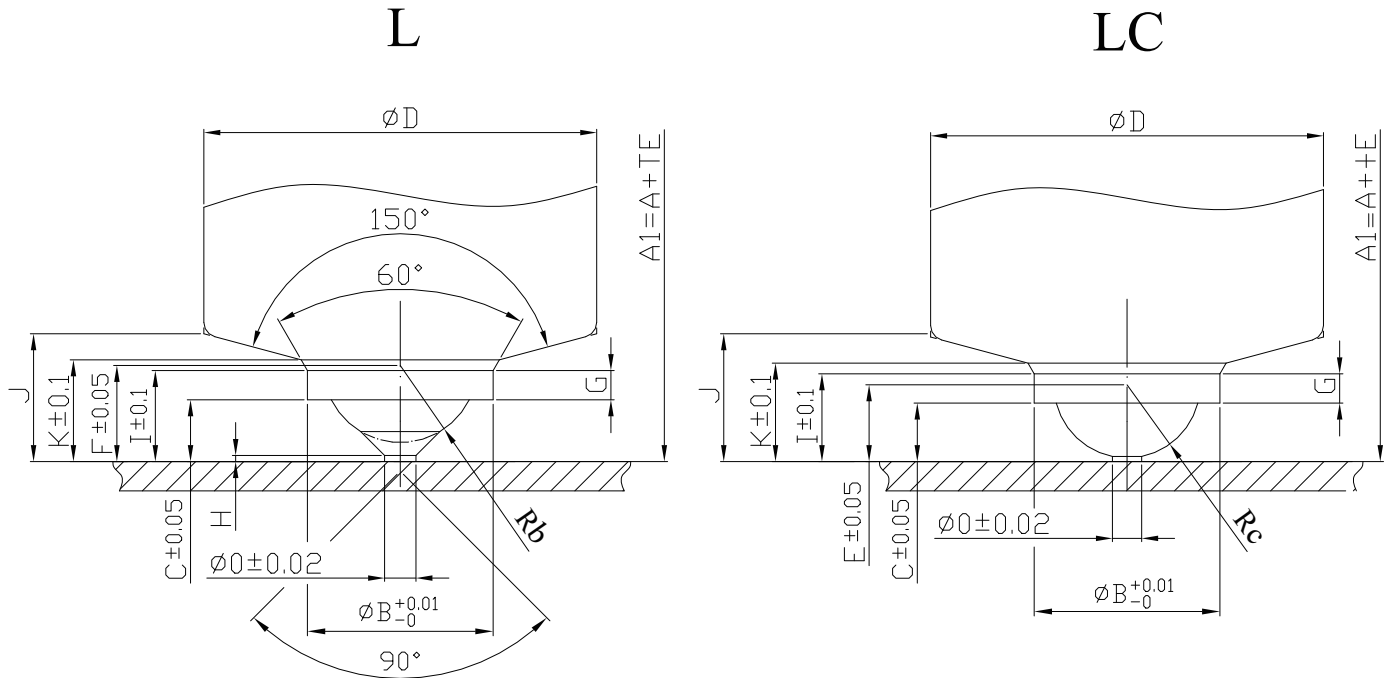
熱膨脹量參考

Nozzle thermo expansion length table

熱嘴加熱至所需溫度(TE)熱膨脹量計算 THERMAL EXPANSION CALCULATION	
$A1=A+TE$ $TE=A \times T \times Z$ $Z=13.2 \times 10^{-6}$	
說明:	
TE=膨脹量	THERMAL EXPANSION (mm)
T=熱嘴溫度	NOZZLE TEMP -
模具溫度	MOLD TEMP (°C)
Z=膨脹係數	EXPANSION COEFFICIENT

T=200°C		T=250°C	
熱嘴道長度 NOZZLE LENGTH	膨脹長度 EXPANSION LENGTH	熱嘴道長度 NOZZLE LENGTH	熱脹長度 EXPANSION LENGTH
A=50mm	0.13mm	A=50mm	0.16mm
A=65mm	0.17mm	A=65mm	0.21mm
A=80mm	0.21mm	A=80mm	0.26mm
A=95mm	0.25mm	A=95mm	0.31mm
A=110mm	0.29mm	A=110mm	0.36mm

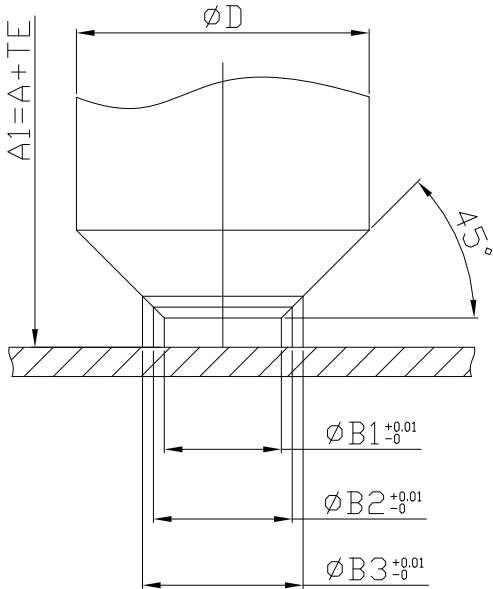
L/LC TYPE



Code Series	ØB	C	ØD	E	F	G	H	I	J	K	Rb	Rc
	CM 26 MAX.A=150	8	3	19	3.35	3.6	1.5	0.03	4.5	6.4	5	3.1
CM 32 MAX.A=175	9	4	24	4.3	4.1	1.8	0.03	5.8	8.4	6.5	3.5	4
CM 38 MAX.A=200	12	4	28	5	5.5	2	0.03	6	9	7	4.7	4.7
CM 50 MAX.A=300	18	6	38	7.95	9	3	0.05	9	12.5	10	7.6	7.6
CM 60 MAX.A=400	26	8	48	11.6	13	4	0.05	12	16.2	13.5	11.2	11.2

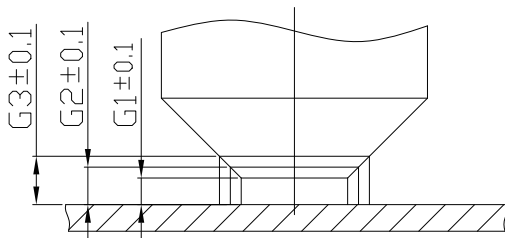
各式澆口 ØO 尺寸參考表	TIP Type Series	L	LC	T	TE	TC	TCE	S	SE
	CM 26	min.0.6 max.1.5	min.0.4 max.1.3	min.0.8 max.1.4	min.1.0 max.1.4	min.0.8 max.1.3	min.1.0 max.1.3	min.1.3 max.1.8	min.1.3 max.1.8
CM 32	min.0.8 max.2.0	min.1.5 max.2.2	min.0.9 max.1.9	min.1.2 max.1.9	min.0.9 max.1.5	min.1.2 max.1.6	min.1.4 max.2.2	min.1.4 max.2.2	
CM 38	min.1.0 max.2.5	min.0.6 max.2.0	min.1.0 max.2.4	min.1.5 max.2.4	min.1.0 max.1.8	min.1.5 max.1.8	min.1.5 max.2.5	min.1.5 max.2.5	
CM 50	min.1.5 max.4.0	min.1.0 max.2.5	min.1.5 max.3.5	min.2.0 max.3.5	min.1.5 max.2.6	min.2.0 max.2.6	min.2.0 max.4.0	min.2.0 max.4.0	
CM 60	min.2.5 max.6.0	min.1.5 max.2.5	min.2.5 max.5.4	min.3.0 max.5.4	min.2.5 max.3.6	min.3.0 max.3.6	min.3.0 max.6.0	min.3.0 max.6.0	

T/TE/TC/TCE TYPE

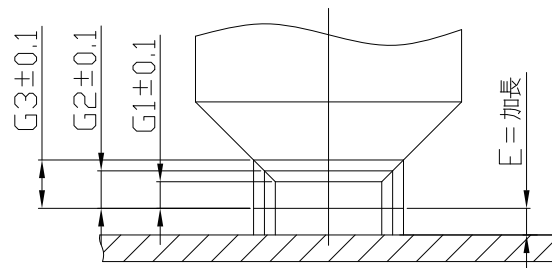


Series	ØB1	ØB2	ØB3	G1	G2	G3	ØD
CM 26	8 <small>MAX. A=100</small>	9 <small>MAX. A=150</small>	10 <small>MAX. A=200</small>	1	1.5	2	19
CM 32	9 <small>MAX. A=100</small>	10 <small>MAX. A=150</small>	11 <small>MAX. A=200</small>	1	1.5	2	24

Series	ØB1	ØB2	ØB3	G1	G2	G3	ØD
CM 38	10 <small>MAX. A=100</small>	12 <small>MAX. A=200</small>	14 <small>MAX. A=300</small>	1	2	3	28
CM 50	14 <small>MAX. A=100</small>	18 <small>MAX. A=300</small>	22 <small>MAX. A=500</small>	1	3	5	38
CM 60	20 <small>MAX. A=200</small>	24 <small>MAX. A=400</small>	28 <small>MAX. A=600</small>	2	4	6	48



T/TC



TE/TCE

各式澆口 ØB 尺寸參考表	Code	T	TC	TE	TCE
	Series				
	CM 26	min. 8 max. 10	min. 8 max. 10	min. 8 max. 10	min. 8 max. 10
	CM 32	min. 10 max. 11	min. 10 max. 11	min. 10 max. 11	min. 10 max. 11
	CM 38	min. 10 max. 14	min. 12 max. 14	min. 12 max. 14	min. 12 max. 14
	CM 50	min. 14 max. 22	min. 18 max. 22	min. 18 max. 22	min. 18 max. 22
	CM 60	min. 20 max. 28	min. 24 max. 28	min. 24 max. 28	min. 24 max. 28

訂單範例

Order examples :

CMM26045L CMM26055T

CMM32045T CMS32060TC

CMM38050LC CMS38080L

CMM50055TE CMS50100TCE

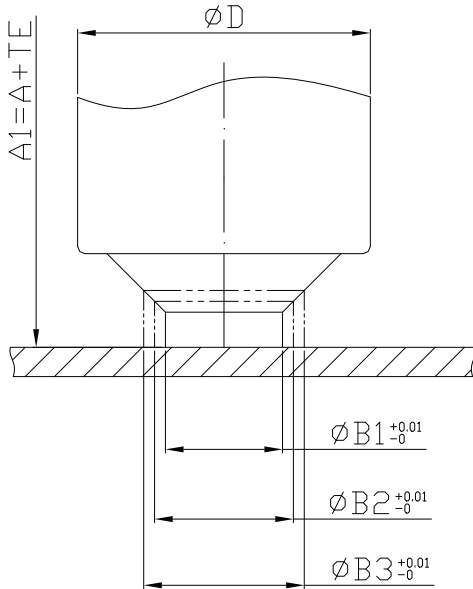
CMM: 標準式線圈加熱器

CMM: standard type coil heater

KMM: 銅套式線圈加熱器

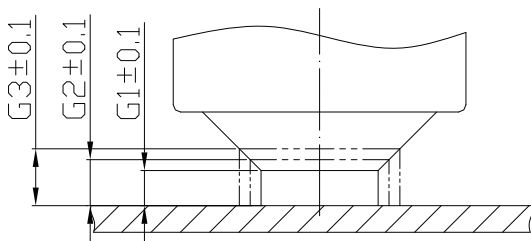
KMM: Casting type heater

SS/SSE/ST/STE/STC/STCE TYPE

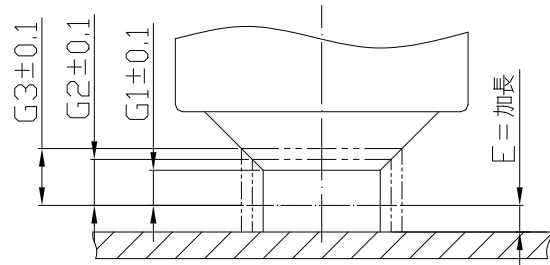


Series	ØB1	ØB2	ØB3	G1	G2	G3	ØD
CM 26	8 <small>MAX. A=100</small>	9 <small>MAX. A=150</small>	10 <small>MAX. A=200</small>	2.5	3	3.5	19
CM 32	9 <small>MAX. A=100</small>	10 <small>MAX. A=150</small>	11 <small>MAX. A=200</small>	3	3.5	4	24

Series	ØB1	ØB2	ØB3	G1	G2	G3	ØD
CM 38	10 <small>MAX. A=100</small>	12 <small>MAX. A=200</small>	14 <small>MAX. A=300</small>	3	4	5	28
CM 50	14 <small>MAX. A=100</small>	18 <small>MAX. A=300</small>	22 <small>MAX. A=500</small>	3.5	5.5	7.5	38
CM 60	20 <small>MAX. A=200</small>	24 <small>MAX. A=400</small>	28 <small>MAX. A=600</small>	6	8	10	48



SS/ST/STC



SSE/STE/STCE

各式澆口 ØB 尺寸參考表	Code	SS	SSE	ST	STE	STC	STCE
	Series						
	CM 26	min. 8 max. 10	min. 8 max. 10	min. 8 max. 10	min. 8 max. 10	min. 8 max. 10	min. 8 max. 10
	CM 32	min. 9 max. 11	min. 9 max. 11	min. 9 max. 11	min. 9 max. 11	min. 9 max. 11	min. 9 max. 11
	CM 38	min. 10 max. 14	min. 10 max. 14	min. 10 max. 14	min. 10 max. 14	min. 10 max. 14	min. 10 max. 14
	CM 50	min. 14 max. 22	min. 14 max. 22	min. 14 max. 22	min. 14 max. 22	min. 14 max. 22	min. 14 max. 22
	CM 60	min. 20 max. 28	min. 20 max. 28	min. 20 max. 28	min. 20 max. 28	min. 20 max. 28	min. 20 max. 28

訂單範例

Order examples :

CMM26045SS CMM26055SSE
 CMM32045ST CMS32060STC
 CMM38050SS CMS38080STCE
 CMM50055STE CMS50100STCE
 CMM60085SS CMS60125SSE

CMM: 標準式線圈加熱器

CMM: standard type coil heater

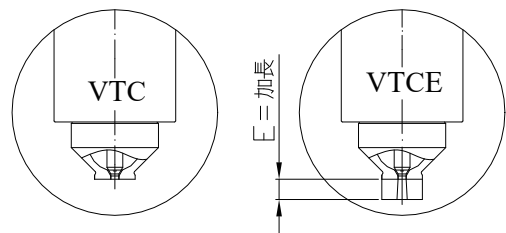
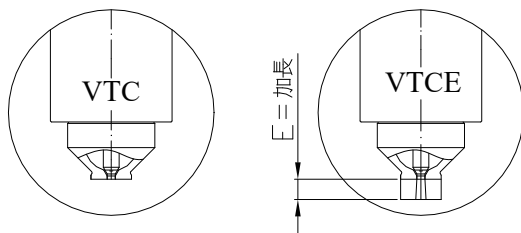
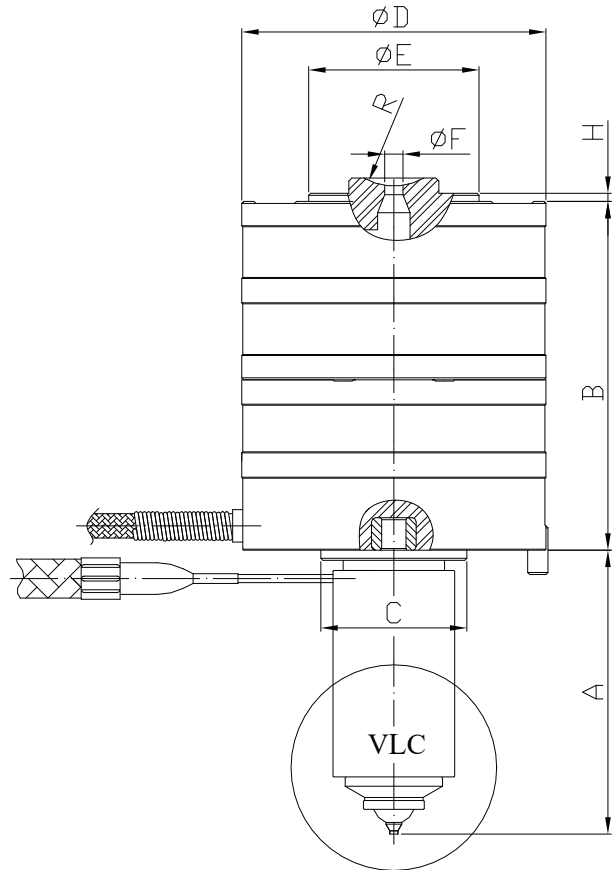
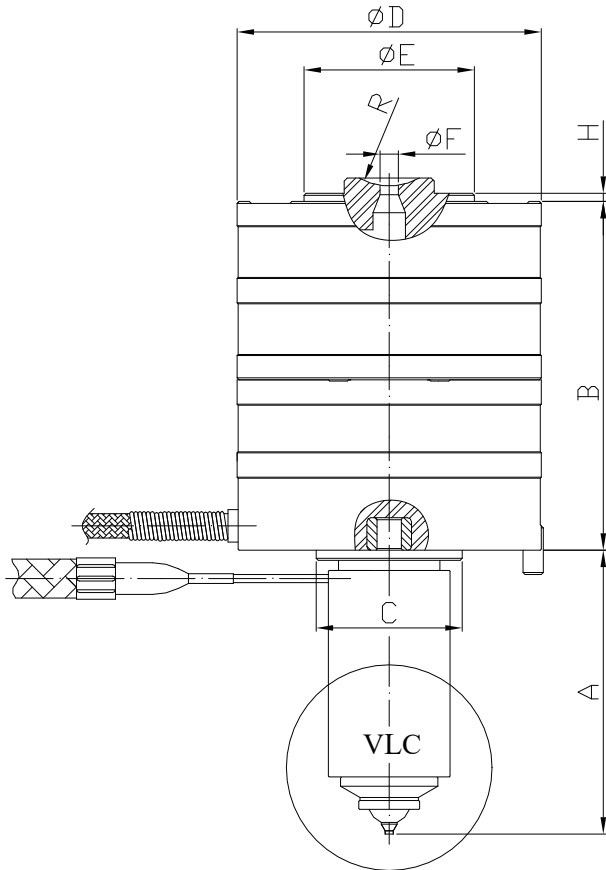
KMM: 銅套式線圈加熱器

KMM: Casting type heater

H系列單穴閥澆口 H series Single Valve Gate

075 VLC/VTC/VTCE TYPE

100 VLC/VTC/VTCE TYPE



SERIES	CODE	B	ØC	ØD	ØE	ØF	H
HMS-075		86	36	75	42	4	2
HMS-100		117	50	100	65	6	3

備註:

HMS-075 汽缸體加熱器與感溫線規格
 Ø10x50Lx500Wx3PCS

嵌入式4x6x1PC

HMS-100汽缸體加熱器與感溫線規格
 Ø12.7x4"Lx630Wx4PCS

嵌入式4x6x1PC

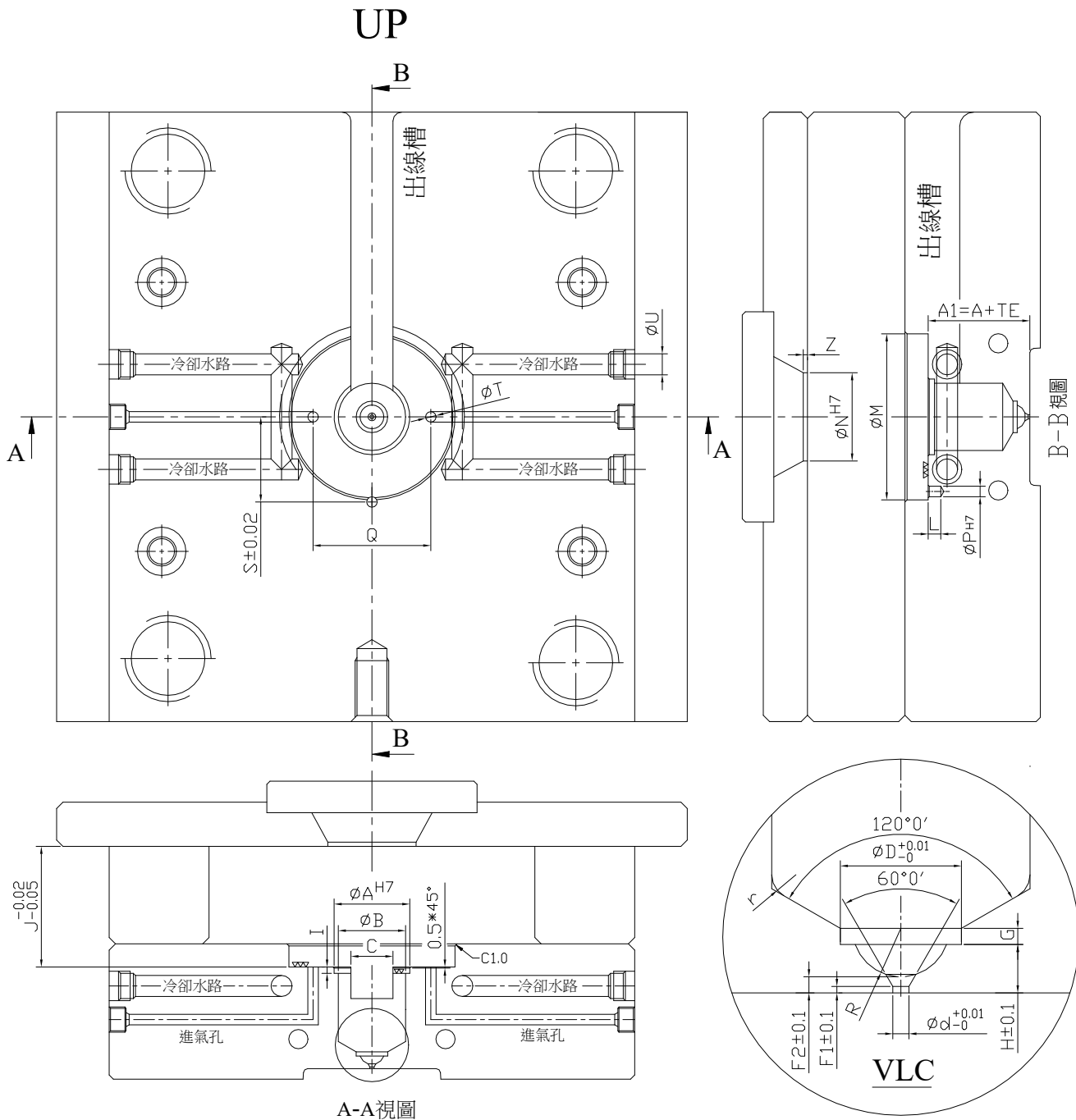
	A mm	HMS	R	緊固扭距 1N/m=10.1972kgf/cm
HMS-075	55	075055	16	VLC / VTC / VTCE type 700kgf · cm
	70	075070	16	
	85	075085	16	
	100	075100	16	
HMS-100	60	100060	21	VLC / VTC / VTCE type 1600kgf · cm
	80	100080	21	
	100	100100	21	
	120	100120	21	

訂單範例

Order examples :

HMS-075055VLC HMS-075070VTC

HMS-100060VLC HMS-100080VTC



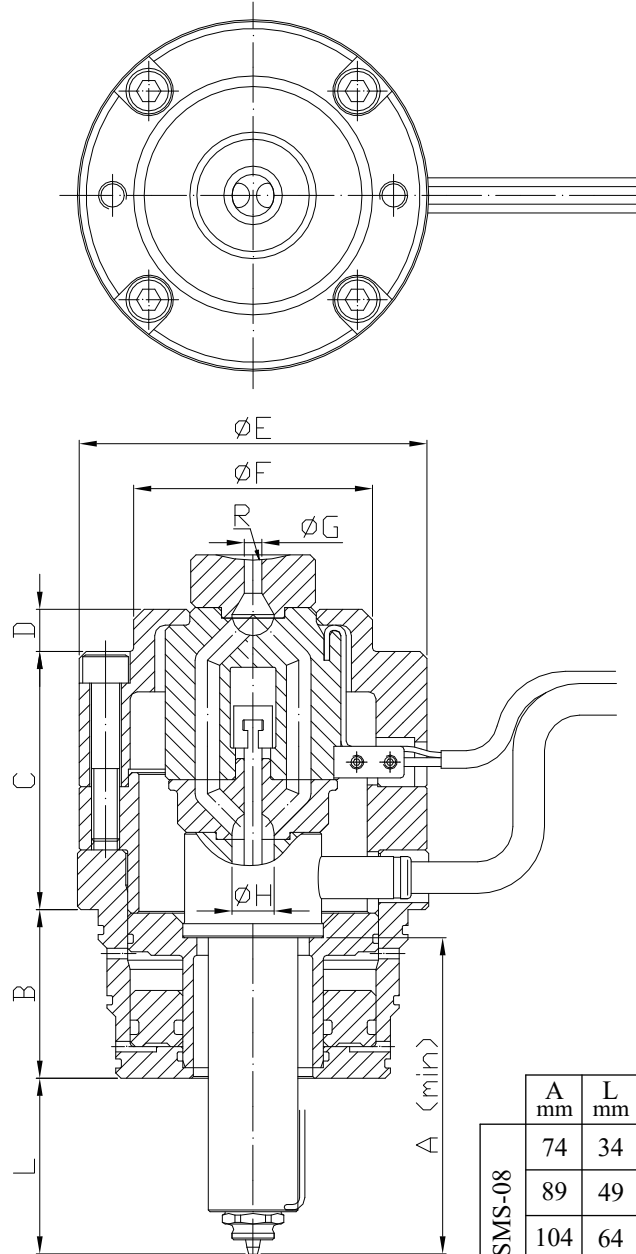
SERIES	CODE	ØA	ØB	C	Ød min. max.	ØD	F1	F2	G	H
HMS-075		36	32	20	2 3.5	15	0.8	2	2.4	5.8
HMS-100		50	46	20	3 5.5	25	0.8	2	3.4	9.6

SERIES	CODE	I	J	L	ØM	ØN	ØP	Q	r	R
HMS-075		3	86	6	79	42	5	56	3	6
HMS-100		4	117	6	105	65	5	66	3	10

SERIES	CODE	S	ØT	ØU	ØV	ØW	X	Y
HMS-075		35.5	5	10	10	14	1	3
HMS-100		47	6	10	14	18	1	3

S系列單穴閥澆口 S series Single Valve Gate

SMS-08/12/16-VL TYPE



SERIES \ CODE	A	B	C	D	ØE	ØF	ØG	ØH
SMS-08	74	45	75.5	6	89	60	4	8
SMS-12	90	48	73.5	12	99	68	5	12
SMS-16	94	55	94.5	12	114	82	6	16

訂單範例

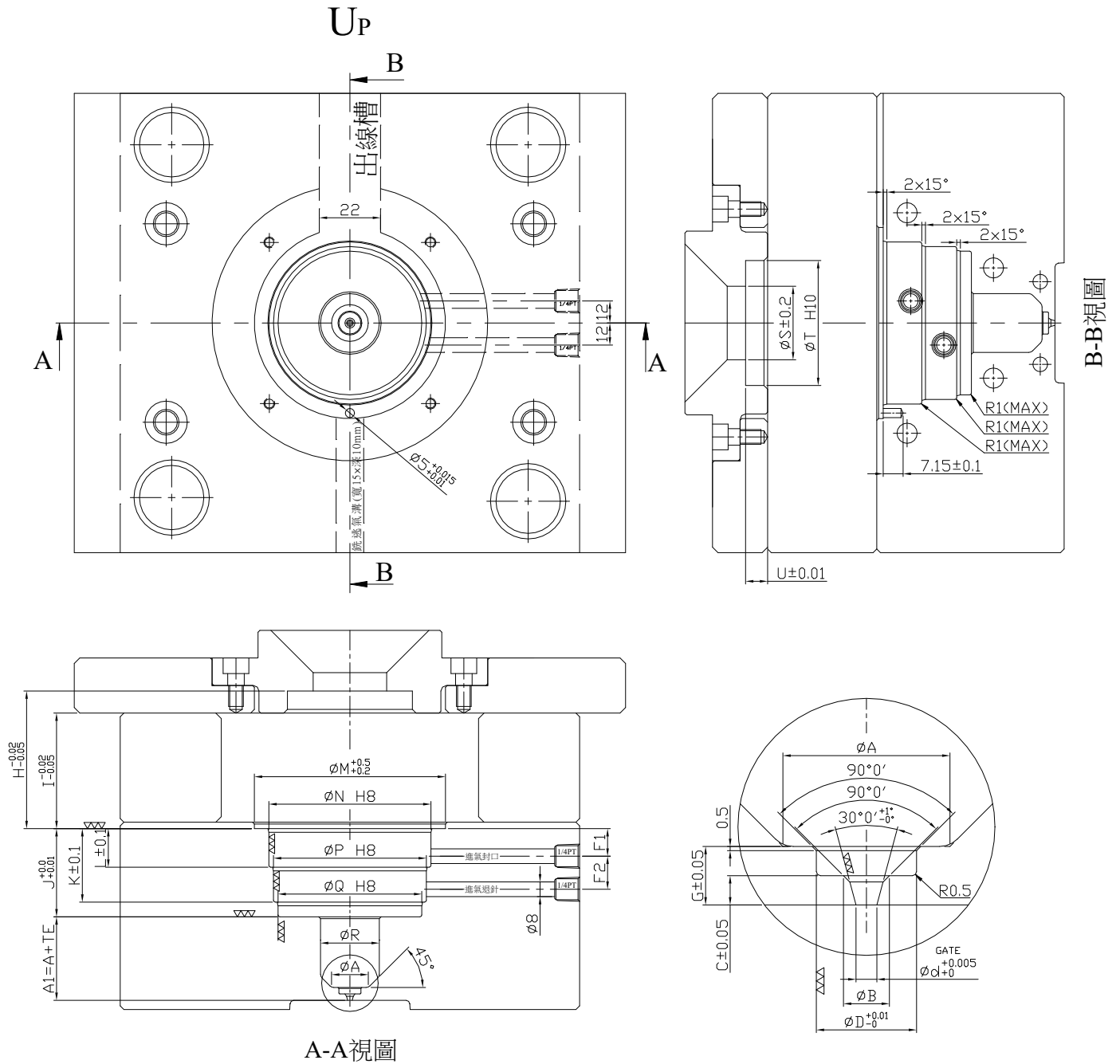
Order examples :

SMS-08074VL

SMS-12090VL

SMS-16094VL

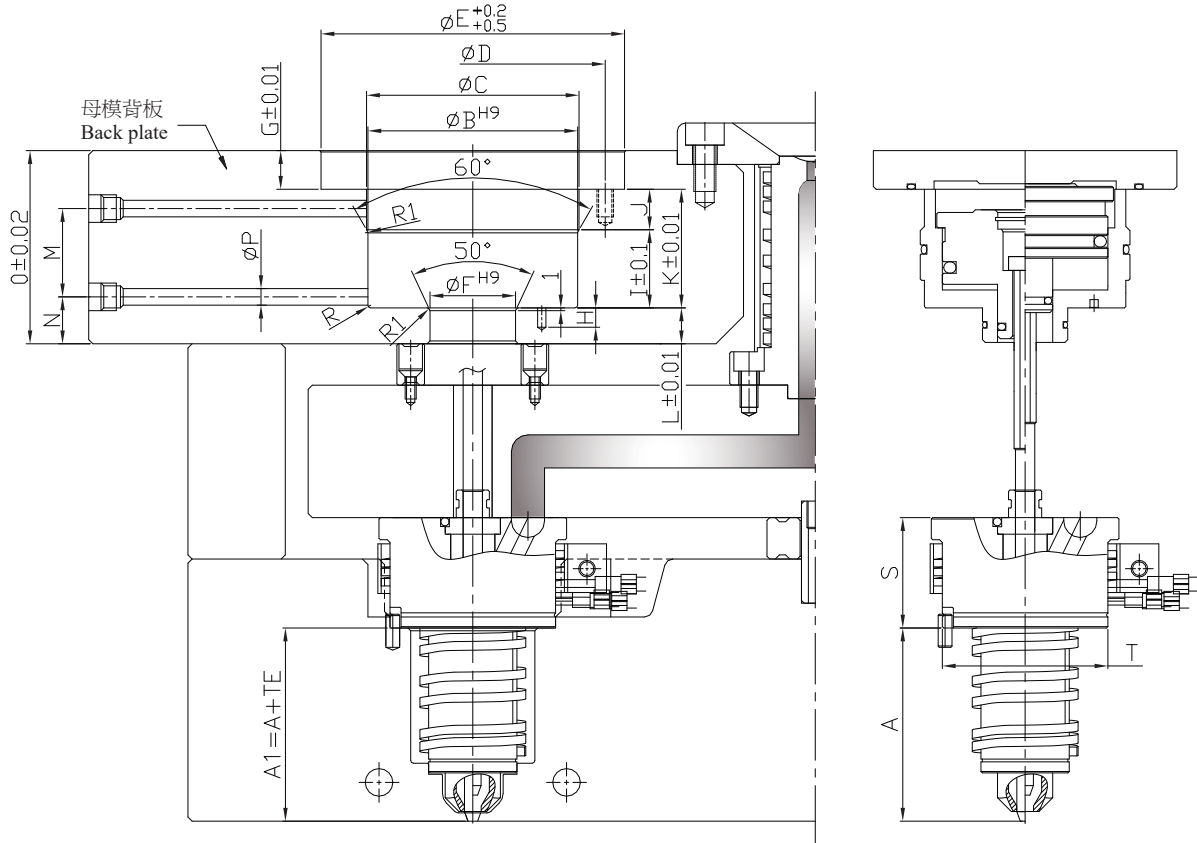
	A mm	L mm	SMS	R	緊固扭距 1N/m=10.1972kgf/cm
SMS-08	74	34	08074	16	08-VL type 245kgf · cm
	89	49	08089	16	
	104	64	08104	16	
	119	79	08119	16	
SMS-12	90	50	12090	21	12-VL type 350kgf · cm
	110	70	12110	21	
	130	90	12130	21	
	150	110	12150	21	
SMS-16	94	47	16094	21	16-VL type 660kgf · cm
	119	72	16119	21	
	144	97	16144	21	
	169	122	16169	21	



SERIES	CODE	ØA	ØB	C	Ød min. max.	ØD	F1	F2	G	H	I	J	K	L
SMS-08		14	4	2.5	Ø1.0 Ø2.5	8	13.5	17	4.5	81.5	75.5	45	35	19
SMS-12		20	6	3.5	Ø2.0 Ø4.5	12	15	18	7	85.5	73.5	48	40	21
SMS-16		28	10	4.8	Ø3.0 Ø7.5	20	15	22	12	106.5	94.5	55	43	22

SERIES	CODE	ØM	ØN	ØP	ØQ	ØR	ØS	ØT	U
SMS-08		94	78.2	73.2	68.2	22	35	60	6
SMS-12		104	88.2	83.2	78.2	32	38	68	12
SMS-16		119	103.2	98.2	93.2	42	51	82	12

VALVE GATE 40/50/60VG TYPE



Series	ØB	ØC	ØD	ØE	ØF	G	H	I	J	K	L	M	N	O	ØP	R	S	T
CMM 40	45	46	64	74	19	8	6.5	18.5	12.5	31	11	21	15	50	6	1	30	40
CMM 50	63	64	84	98	30	10	6.5	23.5	14.5	38	12	26	17	60	6	1	35	50
CMM 60	63	64	84	98	30	10	6.5	23.5	14.5	38	17	26	22	65	6	1	40	60

	A mm	CMM
CMM 40	50	40050VG
	70	40070VG
	90	40090VG
	110	40110VG
	130	40130VG

	A mm	CMM
CMM 50	55	50055VG
	75	50075VG
	95	50095VG
	115	50115VG
	135	50135VG

	A mm	CMM
CMM 60	65	60065VG
	85	60085VG
	105	60105VG
	125	60125VG
	145	60145VG

訂單範例 Order examples : CMM40070VG CMM50075VG CMM60085VG

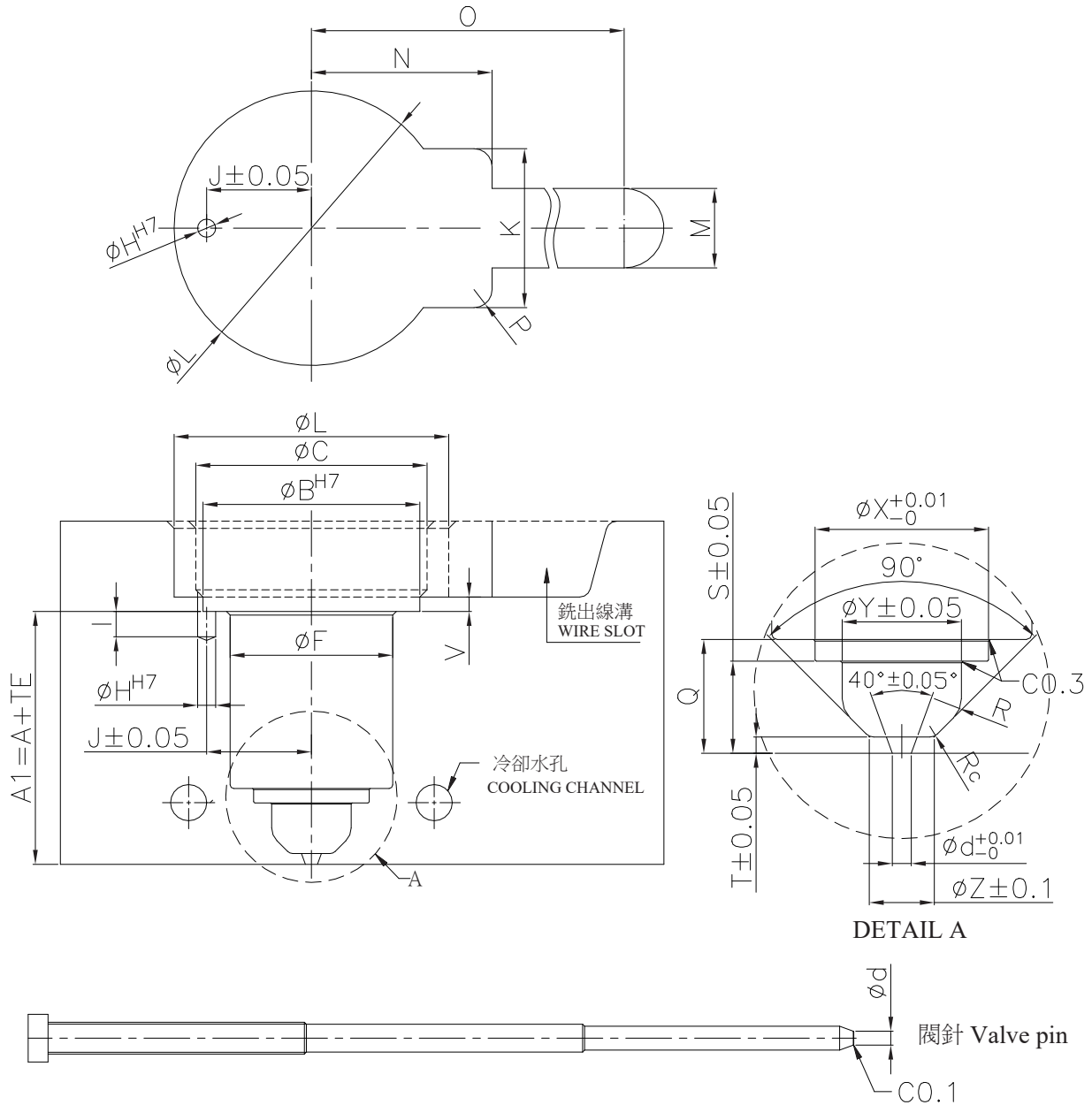


使用壓縮空氣之設定與注意事項。
 空氣壓力設定:最小壓力6kg/cm²，最大壓力10kg/cm²
 壓縮空氣需要過濾與乾燥機脫水(相對溼度小於20%以下)以確保壓縮
 空氣無其他異物與水氣，活塞才能運作正常及延長汽缸使用壽命。



Compressed air setting and caution:
 - Air pressure setting: min. 6kg/cm² & max. 10kg/cm²
 - Compressed air needs to filter out and dehydrate
 (humidity < 20%) to assured the air packing pressure
 have no miscellaneous articles and steam.
 The piston can operate in normal and extend the cylinder
 service life.

VALVE GATE 40/50/60VG TYPE

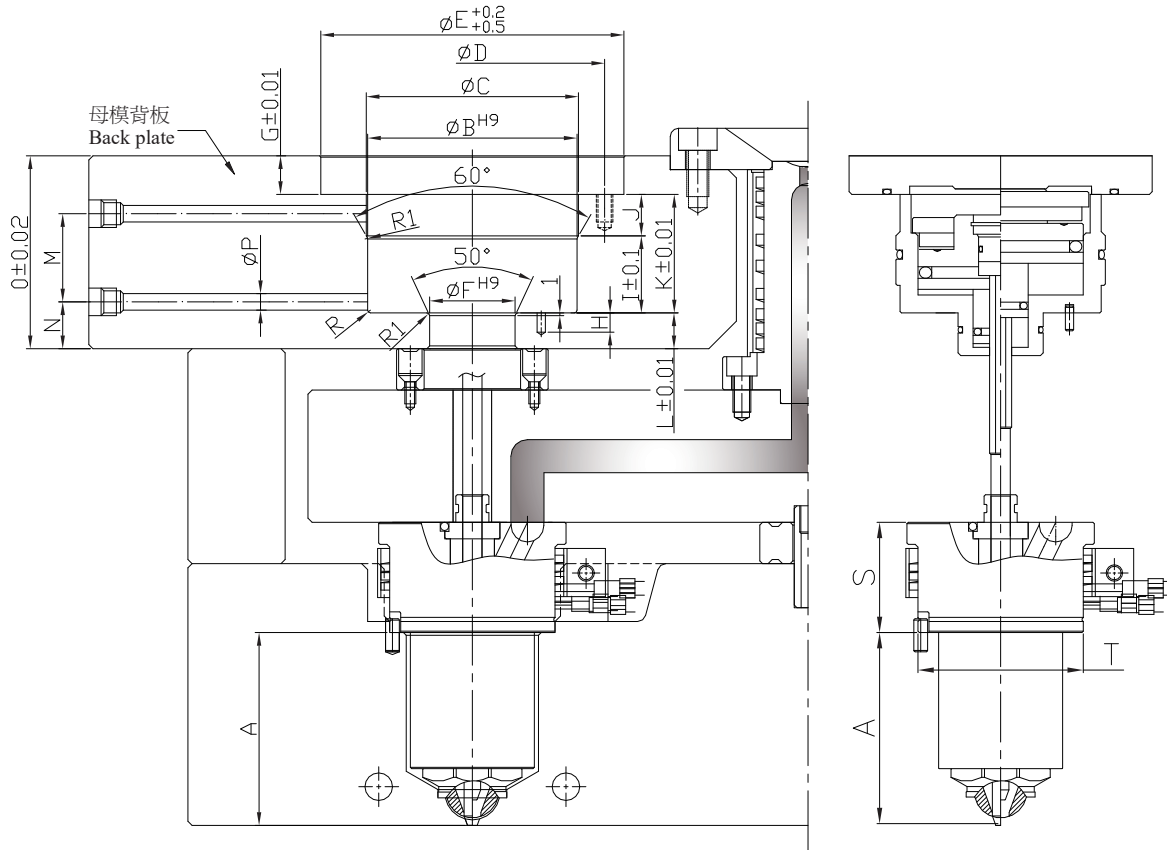


Series	ØB	ØC	ØF	ØH	I	J	K	ØL	M	N	O	P	Q
CMM 40	40	44	30	3	5	19	42	55	16	40	100	5	15
CMM 50	50	54	38	5	6	24	42	65	22	45	100	5	17.5
CMM 60	60	64	45	5	6	29	45	75	22	50	100	5	21

Series	R	S	T	V	Rc	ØX	ØY	ØZ	φd min. max.
CMM 40	3	12	2	3	1	19	15	7.5	1.5 2.5
CMM 50	3	14.5	2.5	4	1	25	18	9	2.0 3.0
CMM 60	5	17	3	4	2	32	22	12	3.5 4.5

熱嘴加熱至所需溫度(TE)熱膨脹量計算 THERMAL EXPANSION CALCULATION	
A1=A+TE TE=A×T×Z Z=13.2×10 ⁻⁶	
說明: TE=膨脹量 THERMAL EXPANSION (mm) T=熱嘴溫度 NOZZLE TEMP - 模具溫度 MOLD TEMP (C°) Z=膨脹係數 EXPANSION COEFFICIENT	

VALVE GATE 40/50/60VLC TYPE



Series	ØB	ØC	ØD	ØE	ØF	G	H	I	J	K	L	M	N	O	ØP	R	S	T
CMM 40	45	46	64	74	19	8	6.5	18.5	12.5	31	11	21	15	50	6	1	30	40
CMM 50	63	64	84	98	30	10	6.5	23.5	14.5	38	12	26	17	60	6	1	35	50
CMM 60	63	64	84	98	30	10	6.5	23.5	14.5	38	17	26	22	65	6	1	40	60

CMM 40	A mm	CMM
	50	40050VLC
	70	40070VLC
	90	40090VLC
	110	40110VLC
	130	40130VLC

CMM 50	A mm	CMM
	55	50055VLC
	75	50075VLC
	95	50095VLC
	115	50115VLC
	135	50135VLC

CMM 60	A mm	CMM
	65	60065VLC
	85	60085VLC
	105	60105VLC
	125	60125VLC
	145	60145VLC

訂單範例 Order examples : CMM40070VLC CMM50075VLC CMM60085VLC

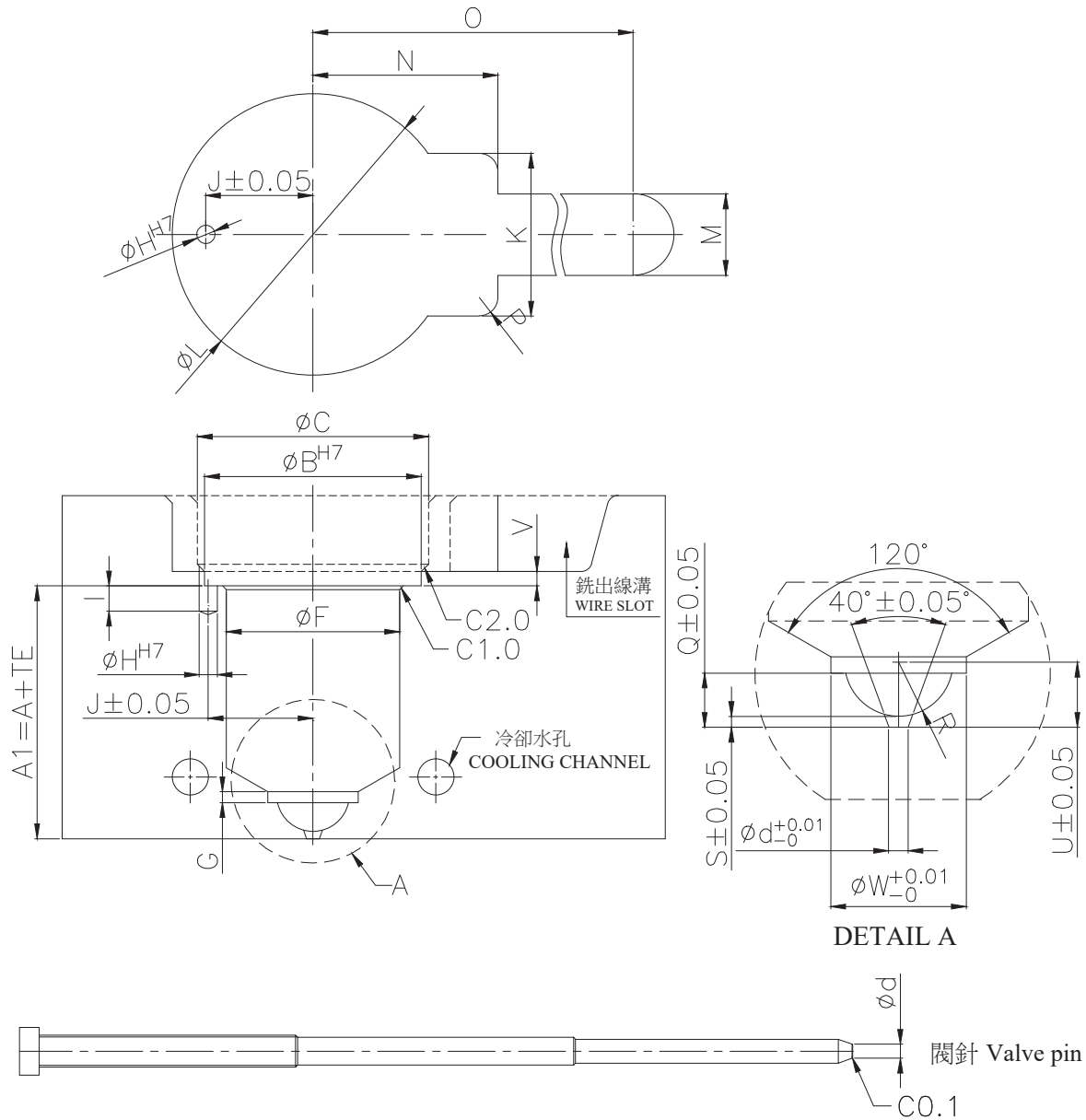


使用壓縮空氣之設定與注意事項。
 空氣壓力設定: 最小壓力6kg/cm²，最大壓力10kg/cm²
 壓縮空氣需要過濾與乾燥機脫水(相對溼度小於20%以下)以確保壓縮空氣無其他異物與水氣，活塞才能運作正常及延長汽缸使用壽命。



Compressed air setting and caution:
 - Air pressure setting: min. 6kg/cm² & max. 10kg/cm²
 - Compressed air needs to filter out and dehydrate (humidity < 20%) to assured the air packing pressure have no miscellaneous articles and steam.
 The piston can operate in normal and extend the cylinder service life.

VALVE GATE 40/50/60VLC TYPE

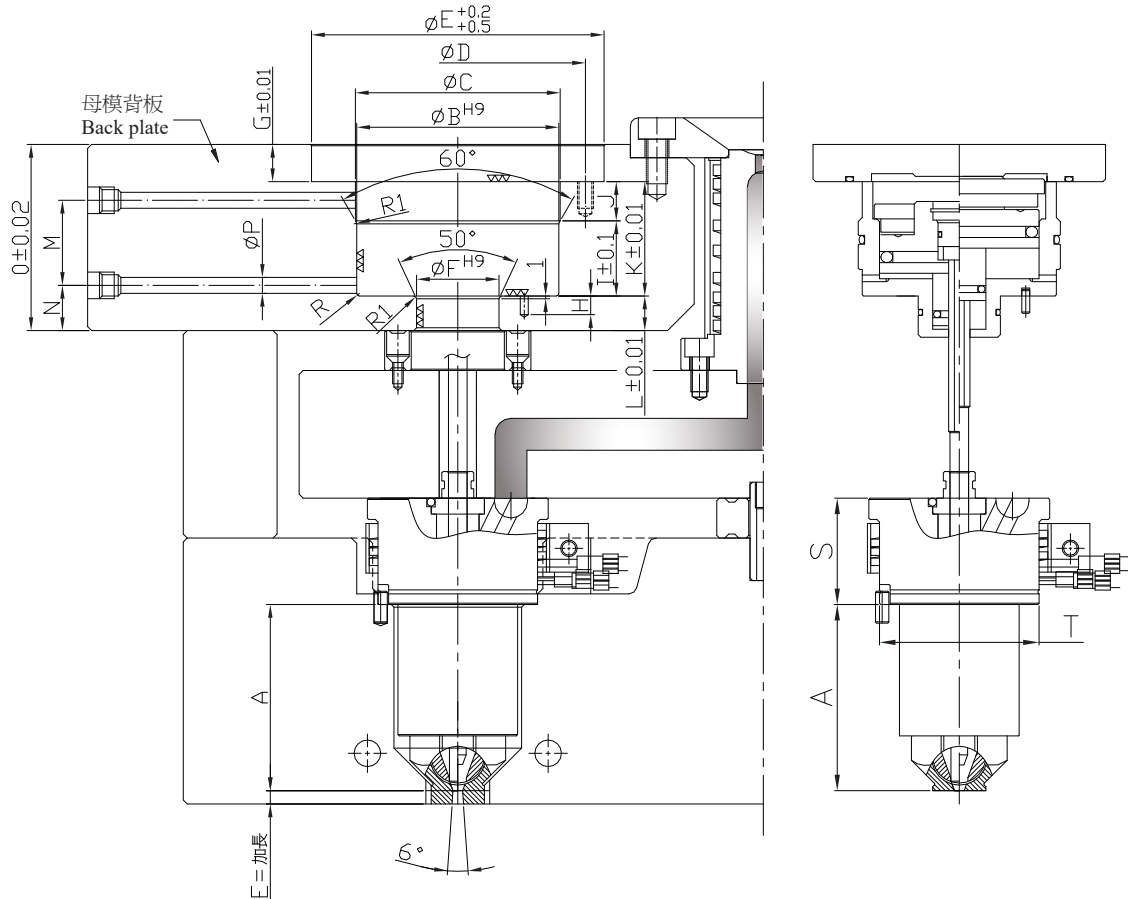


Series	ØB	ØC	ØF	G	ØH	I	J	K	ØL	M	N	O	P
CMM 40	40	44	32	2.2	3	5	19	42	55	16	40	100	5
CMM 50	50	54	40	2.5	5	6	24	42	65	22	45	100	5
CMM 60	60	64	48	3	5	6	29	45	75	22	50	100	5

Series	Q	R	S	U	V	W	Ød min. max.
CMM 40	5.2	6	1.2	7.2	3	15 Max.A=200	1.5 2.5
CMM 50	7.6	8	1.6	9.6	4	20 Max.A=250	2.0 3.0
CMM 60	9.6	10	2	12	4	25 Max.A=300	3.5 4.5

熱嘴加熱至所需溫度(TE)熱膨脹量計算 THERMAL EXPANSION CALCULATION	
$A1=A+TE$ $TE=A \times T \times Z$ $Z=13.2 \times 10^{-6}$	
說明:	
TE=膨脹量	THERMAL EXPANSION (mm)
T=熱嘴溫度	NOZZLE TEMP -
模具溫度	MOLD TEMP (°C)
Z=膨脹係數	EXPANSION COEFFICIENT

VALVE GATE 40/50/60VTC/VTCE TYPE



Series	ØB	ØC	ØD	ØE	ØF	G	H	I	J	K	L	M	N	O	ØP	R	S	T
CMM 40	45	46	64	74	19	8	7.5	18.5	12.5	31	11	21	15	50	6	1	30	40
CMM 50	63	64	84	98	30	10	7.5	23	15	38	12	26	17	60	6	1	35	50
CMM 60	76	77	96	110	31	14	7.5	28	15	43	13	32	17	70	6	1	40	60

CMM 40	A mm	CMM
	50	40050VTC/VTCE
	70	40070VTC/VTCE
	90	40090VTC/VTCE
	110	40110VTC/VTCE
	130	40130VTC/VTCE

CMM 50	A mm	CMM
	55	50055VTC/VTCE
	75	50075VTC/VTCE
	95	50095VTC/VTCE
	115	50115VTC/VTCE
	135	50135VTC/VTCE

CMM 60	A mm	CMM
	65	60065VTC/VTCE
	85	60085VTC/VTCE
	105	60105VTC/VTCE
	125	60125VTC/VTCE
	145	60145VTC/VTCE

訂單範例 Order examples : CMM40070VTC CMM50095VTC CMM60085VTCE

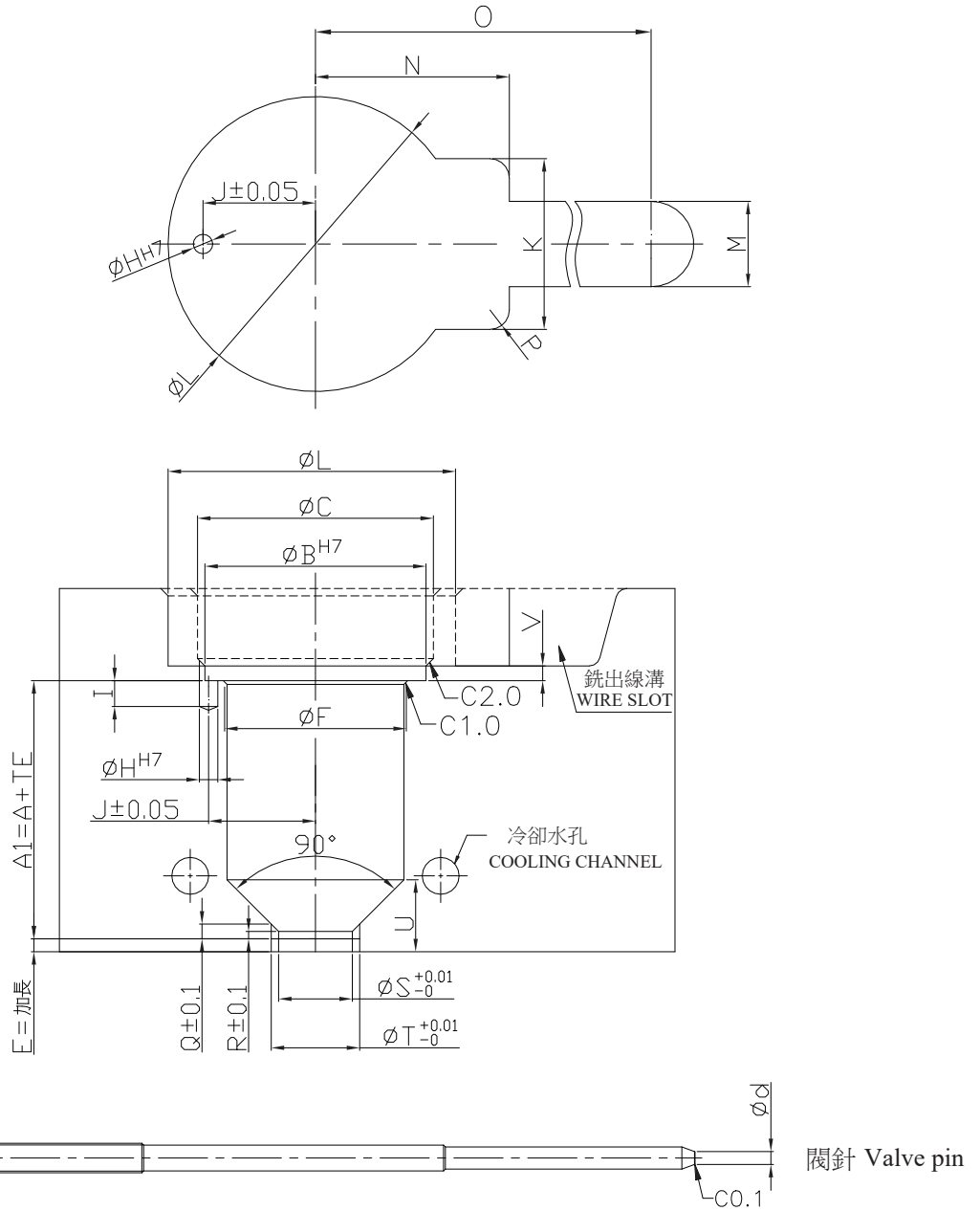


使用壓縮空氣之設定與注意事項。
 空氣壓力設定: 最小壓力6kg/cm²，最大壓力10kg/cm²
 壓縮空氣需要過濾與乾燥機脫水(相對溼度小於20%以下)以確保壓縮
 空氣無其他異物與水氣，活塞才能運作正常及延長汽缸使用壽命。



Compressed air setting and caution:
 - Air pressure setting: min. 6kg/cm² & max. 10kg/cm²
 - Compressed air needs to filter out and dehydrate
 (humidity < 20%) to assured the air packing pressure have
 no miscellaneous articles and steam.
 The piston can operate in normal and extend the cylinder service life.

VALVE GATE 40/50/60VTC/VTCE TYPE

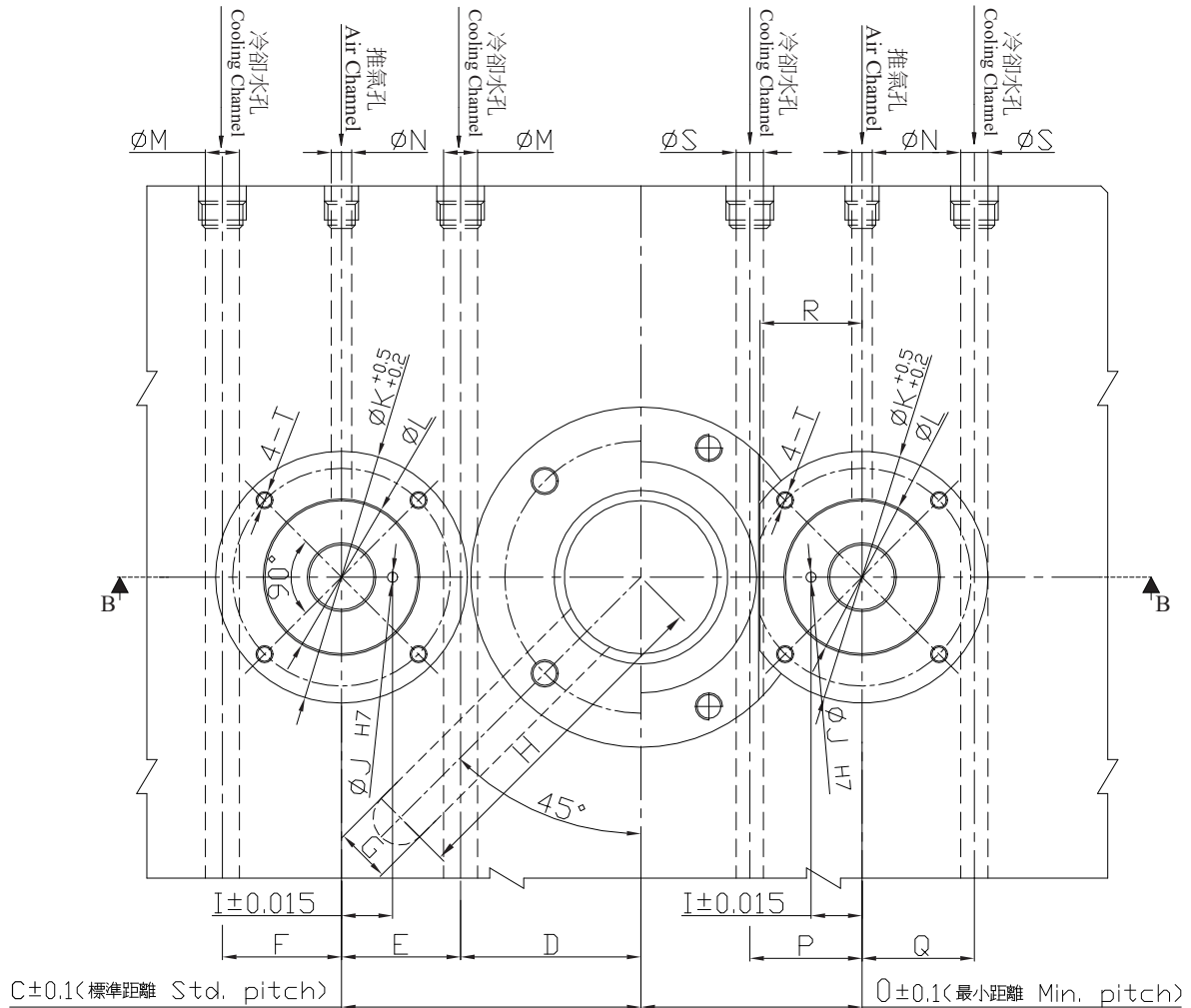


Series	ØB	ØC	ØF	ØH	I	J	K	ØL	M	N	O	P
CMM 40	40	44	32	3	5	19	42	55	16	40	100	5
CMM 50	50	54	40	5	6	24	42	65	22	45	100	5
CMM 60	60	64	48	5	6	29	45	75	22	50	100	5

Series	R	ØS	Q	ØT	U	V	Ød min. max.
CMM 40	1	10 MAX.A=100	2	12 MAX.A=200	12	3	1.5 2.5
CMM 50	1	14 MAX.A=150	3	18 MAX.A=300	14	4	2.0 3.0
CMM 60	2	20 MAX.A=200	4	24 MAX.A=400	16	4	3.5 4.5

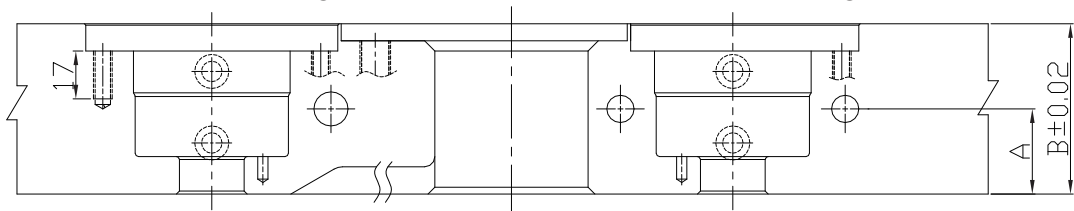
熱嘴加熱至所需溫度(TE)熱膨脹量計算 THERMAL EXPANSION CALCULATION	
$A1=A+TE$ $TE=A \times T \times Z$ $Z=13.2 \times 10^{-6}$	
說明: TE=膨脹量 THERMAL EXPANSION (mm) T=熱嘴溫度 NOZZLE TEMP - 模具體溫度 MOLD TEMP (°C) Z=膨脹係數 EXPANSION COEFFICIENT	

VALVE GATE 40/50/60VG/VLC/VTC/VTCE TYPE



標準尺寸加工
Std. seat machining

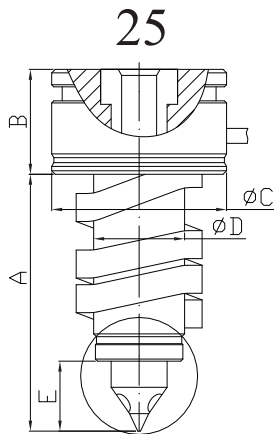
最小尺寸加工
Min. seat machining



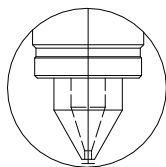
Series	A	B	C	D	E	F	G	H	I	$\varnothing J$	$\varnothing K$	$\varnothing L$	$\varnothing M$	$\varnothing N$	O
CMM 40	25	50	88	53	35	35	16	100	15	3	74	46	10	6	65
CMM 50	30	60	100	57	43	43	16	100	22	3	98	64	10	6	77
CMM 60	35	65	100	53	43	43	16	100	22	3	98	64	10	6	77

Series	P	Q	R	$\varnothing S$	T
CMM 40	33	33	30	8	M5
CMM 50	43	43	40	10	M6
CMM 60	43	43	40	10	M6

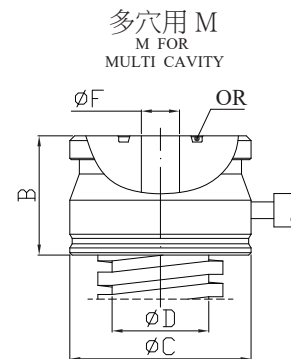
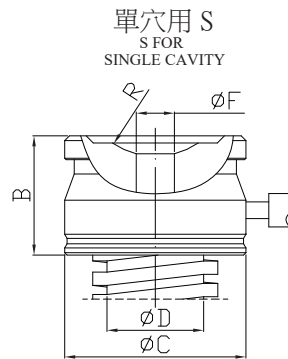
G/GC TYPE



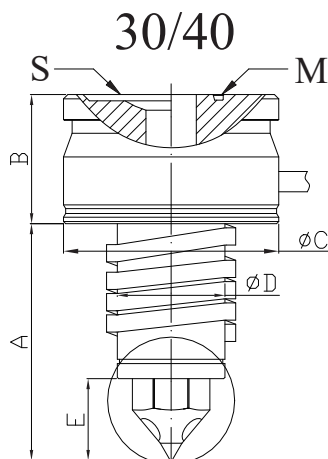
G TYPE



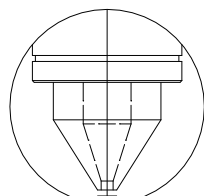
GC TYPE



Code Series	B	C	D	E	F	OR
CM 25	15	25	13	10	5	—
CM 30	20	30	16	12	7	610
CM 40	25	40	19	16	8	610



G TYPE



GC TYPE

	A mm	CMS	R	CMM	緊固扭距 1N·m=10.1972kgf·cm
CMM25	40	-----	---	25040G/GC	/
	55	-----	---	25055G/GC	
	70	-----	---	25070G/GC	
	85	-----	---	25085G/GC	
CMS/M30	45	30045G/GC	16	30045G/GC	300~400 kgf·cm
	60	30060G/GC	16	30060G/GC	
	75	30075G/GC	16	30075G/GC	
	90	30090G/GC	16	30090G/GC	
CMS/M40	50	40050G/GC	16	40050G/GC	900kgf·cm
	65	40065G/GC	16	40065G/GC	
	80	40080G/GC	16	40080G/GC	
	95	40095G/GC	16	40095G/GC	
	110	40110G/GC	16	40110G/GC	

* 以上各規格最大A尺寸長度請參考第34頁表格*

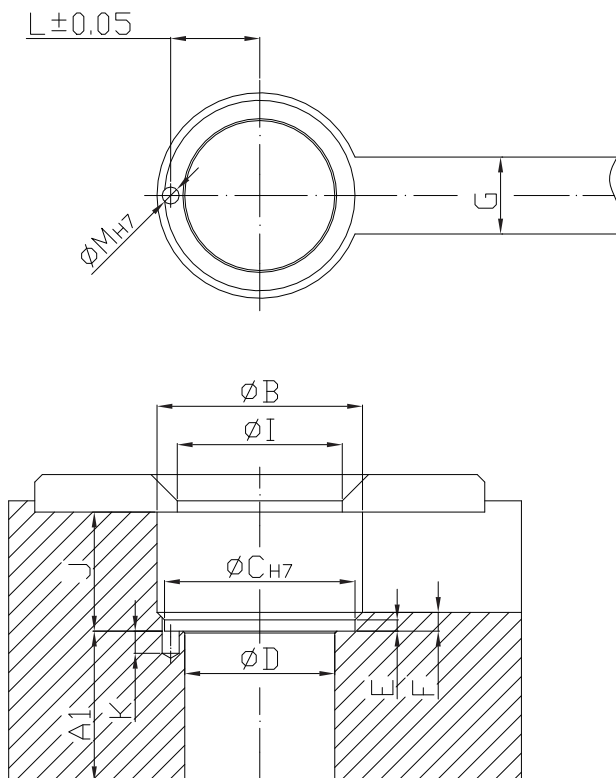
* For max. length A refer to the table from page 34 *

訂單範例 Order examples:

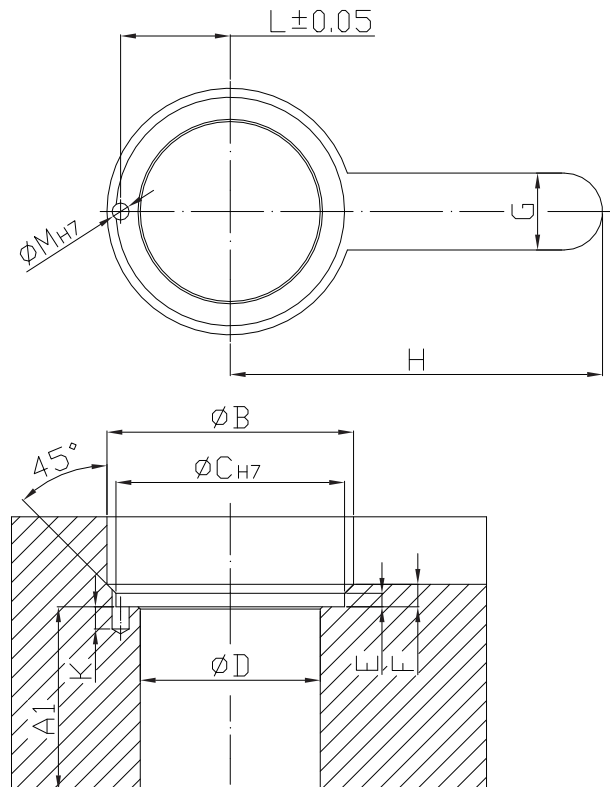
CMM25040G · CMS30060GC · CMM40110G

G/GC TYPE

單穴 SINGLE CAVITY



多穴 MULTI CAVITY



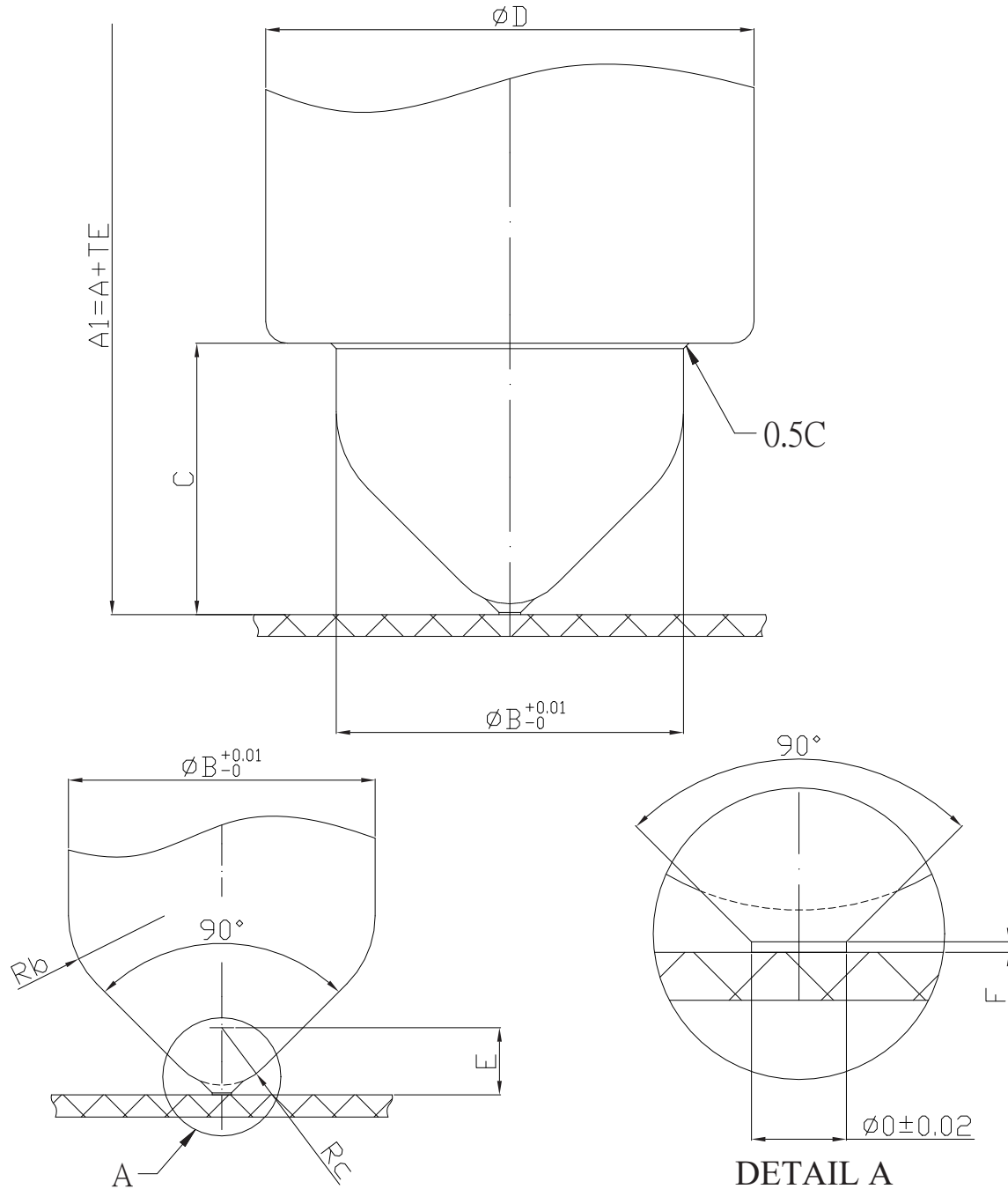
Series \ Code	ØB	ØC	ØD	E	F	G	H	ØI	J	K	L	ØM
CM 25	28	25	20	2.5	4	10	85	---	15	5	12	3
CM 30	33	30	24	2.5	4	12	85	26	20	5	14.5	3
CM 40	44	40	30	3	5	12	85	35	25	5	19	3

熱嘴熱膨脹量參考表
Nozzle thermo expansion length table

熱嘴加熱至所需溫度(TE)膨脹量之計算 THERMAL EXPANSION CALCULATION		
$A1 = A + TE$ $TE = A \times T \times Z$ $Z = 13.2 \times 10^{-6}$		
說明:		
TE=膨脹量	THERMAL EXPANSION (mm)	
T=熱嘴溫度	NOZZLE TEMP -	
模具溫度	MOLD TEMP (°C)	
Z=膨脹係數	EXPANSION COEFFICIENT	

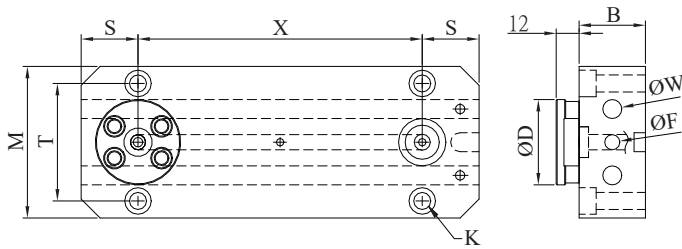
T=200°C		T=250°C	
熱流道長度 NOZZLE LENGTH	膨脹長度 EXPANSION LENGTH	熱流道長度 NOZZLE LENGTH	膨脹長度 EXPANSION LENGTH
A=50mm	0.13mm	A=50mm	0.16mm
A=65mm	0.17mm	A=65mm	0.21mm
A=80mm	0.21mm	A=80mm	0.26mm
A=95mm	0.25mm	A=95mm	0.31mm
A=110mm	0.29mm	A=110mm	0.36mm

G/GC TYPE



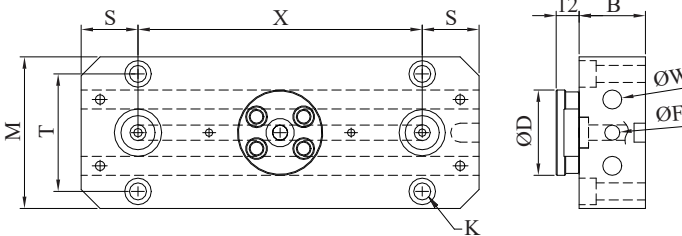
Code Series	ØB	C	ØD	E	F	Rb	Rc	ØO (G) min. max.	ØO (GC) min. max.
CM 25	12.5 MAX.A=150	12.5	20	4.1	---	5	3.5	0.8 1.5	0.6 1.2
CM 30	16 MAX.A=200	14.5	24	4.6	0.1	8	4	1.2 1.8	0.8 1.5
CM 40	19 MAX.A=250	19	30	5.8	0.1	10	5	1.5 2.5	1.0 2.0

熱流板規格選擇表 / Manifold specification & Table


 一穴偏心
 1 drop offset

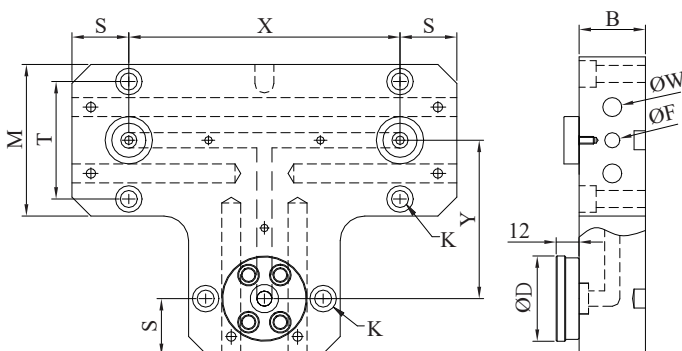
單位：mm

SERIES	M	T	S	B	K	ØD	ØF	ØW	X
CMI-080	80	60	40	35	M8	45	6/8	10	---
CMI-090	90	70	40	40	M8	45	10/12	12.7	---
CMI-100	100	80	50	45	M8	50	16/18	12.7	---


 兩穴"一"形
 2 drop-Inline

單位：mm

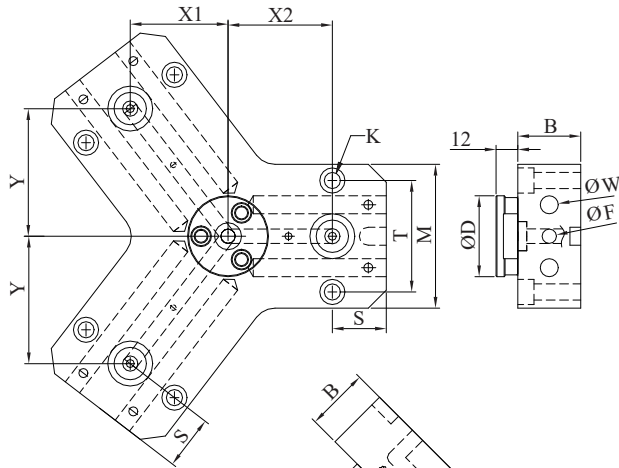
SERIES	M	T	S	B	K	ØD	ØF	ØW	X
CMI-080	80	60	40	35	M8	45	6/8	10	---
CMI-090	90	70	40	40	M8	45	10/12	12.7	---
CMI-100	100	80	50	45	M8	50	16/18	12.7	---


 兩穴"T"形
 2 drop-(T)

單位：mm

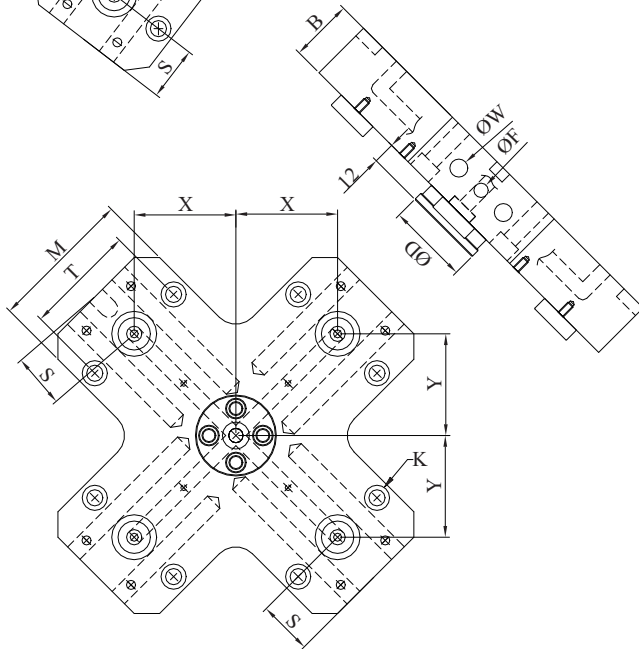
SERIES	M	T	S	B	K	ØD	ØF	ØW	X	Y
CMT-080	80	60	40	35	M8	45	6/8	10	---	---
CMT-090	90	70	40	40	M8	45	10/12	12.7	---	---
CMT-100	100	80	50	45	M8	50	16/18	12.7	---	---

熱流板規格選擇表 / Manifold specification & Table


 三穴"Y"形
 3 drop-(Y)

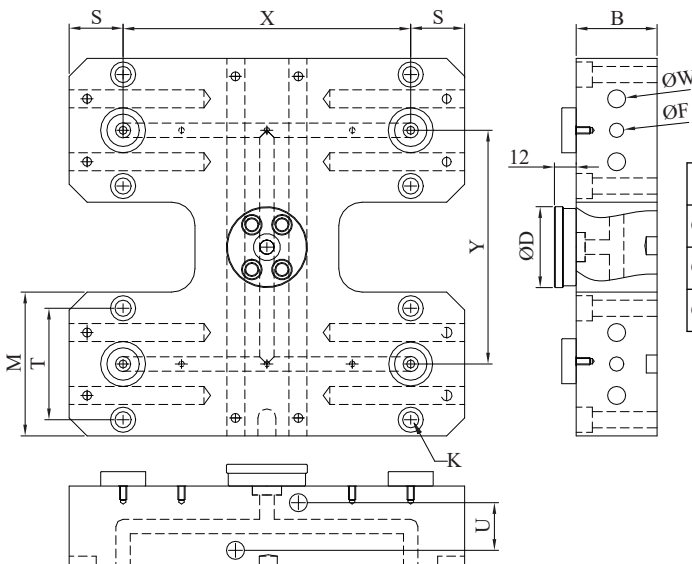
單位：mm

SERIES	M	T	S	B	K	ØD	ØF	ØW	X1	X2	Y
CMY-080	80	60	40	35	M8	45	6/8	10	---	---	---
CMY-090	90	70	40	40	M8	45	10/12	12.7	---	---	---
CMY-100	100	80	50	45	M8	50	16/18	12.7	---	---	---


 四穴"X"形
 4 drop-(X)

單位：mm

SERIES	M	T	S	B	K	ØD	ØF	ØW	X	Y
CMX-080	80	60	40	35	M8	45	6/8	10	---	---
CMX-090	90	70	40	40	M8	45	10/12	12.7	---	---
CMX-100	100	80	50	45	M8	50	16/18	12.7	---	---


 四穴"H"形
 4 drop-(H)

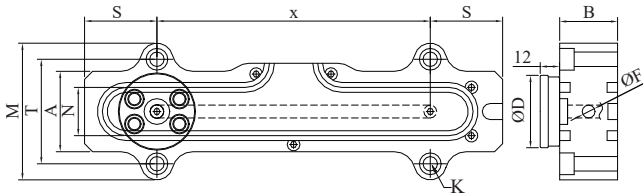
單位：mm

SERIES	M	T	S	B	K	ØD	ØF	ØW	U	X	Y
CMH-080	80	60	40	40	M8	45	6/8	10	26	---	---
CMH-090	90	70	40	50	M8	45	10/12	12.7	31	---	---
CMH-100	100	80	50	55	M8	50	16/18	12.7	36	---	---

熱流板規格選擇表 / Manifold specification & Table

 一穴偏心
 1 drop offset

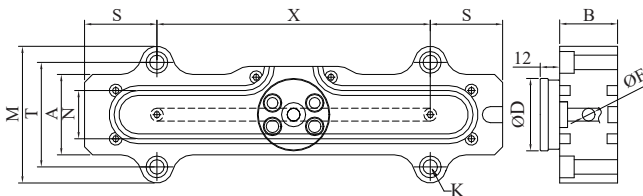
單位：mm



SERIES	M	T	A	N	S	B	K	ØD	ØF	X
HMI-080	80	60	50	30	40	35	M8	45	6/8	---
HMI-090	90	70	60	40	40	38	M8	45	10/12	---
HMI-100	100	80	70	50	50	40	M8	50	16/18	---

 兩穴"一"形
 2 drop-Inline

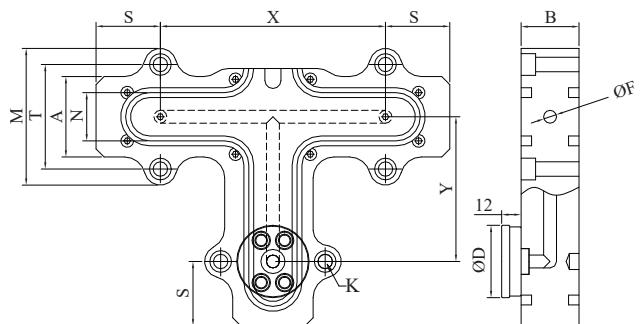
單位：mm



SERIES	M	T	A	N	S	B	K	ØD	ØF	X
HMI-080	80	60	50	30	40	35	M8	45	6/8	---
HMI-090	90	70	60	40	40	38	M8	45	10/12	---
HMI-100	100	80	70	50	50	40	M8	50	16/18	---

 兩穴"Y"形
 2 drop-(Y)

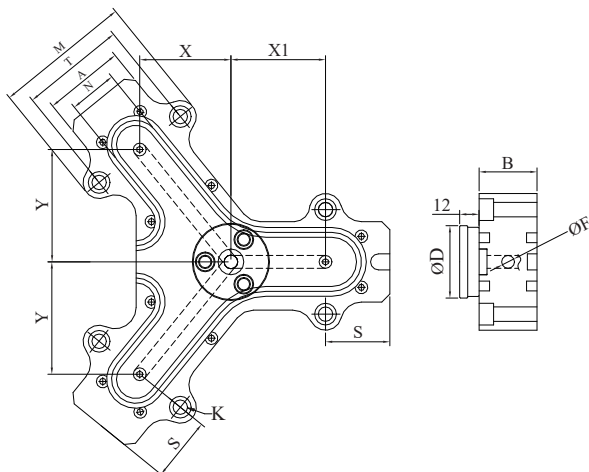
單位：mm



SERIES	M	T	A	N	S	B	K	ØD	ØF	X	Y
HMT-080	80	60	50	30	40	35	M8	45	6/8	---	---
HMT-090	90	70	60	40	40	38	M8	45	10/12	---	---
HMT-100	100	80	70	50	50	40	M8	50	16/18	---	---

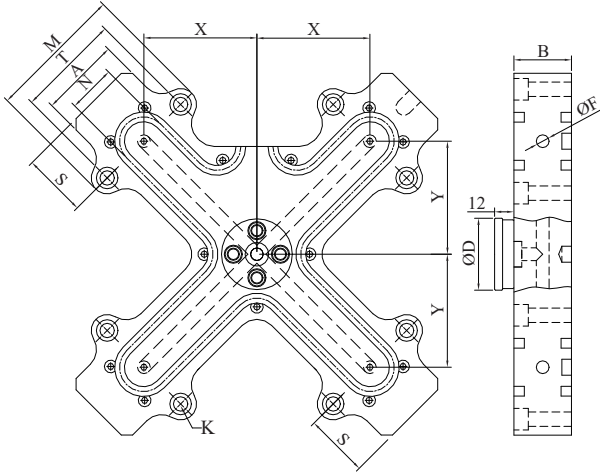
 三穴"Y"形
 3 drop-(Y)

單位：mm



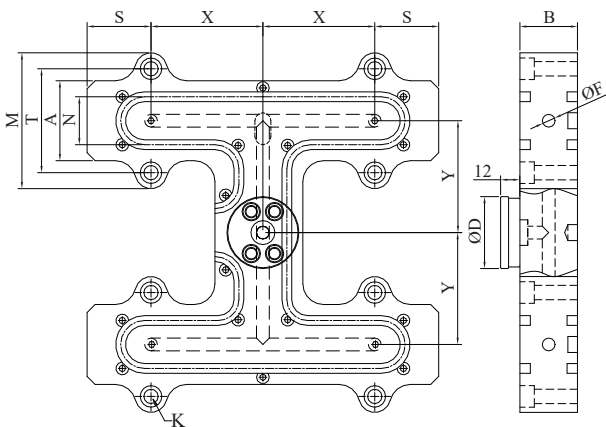
SERIES	M	T	A	N	S	B	K	ØD	ØF	X	X1	Y
HMY-080	80	60	50	30	40	35	M8	45	6/8	---	---	---
HMY-090	90	70	60	40	40	38	M8	45	10/12	---	---	---
HMY-100	100	80	70	50	50	40	M8	50	16/18	---	---	---

熱流板規格選擇表 / Manifold specification & Table


 四穴"X"形
 4 drop-(X)

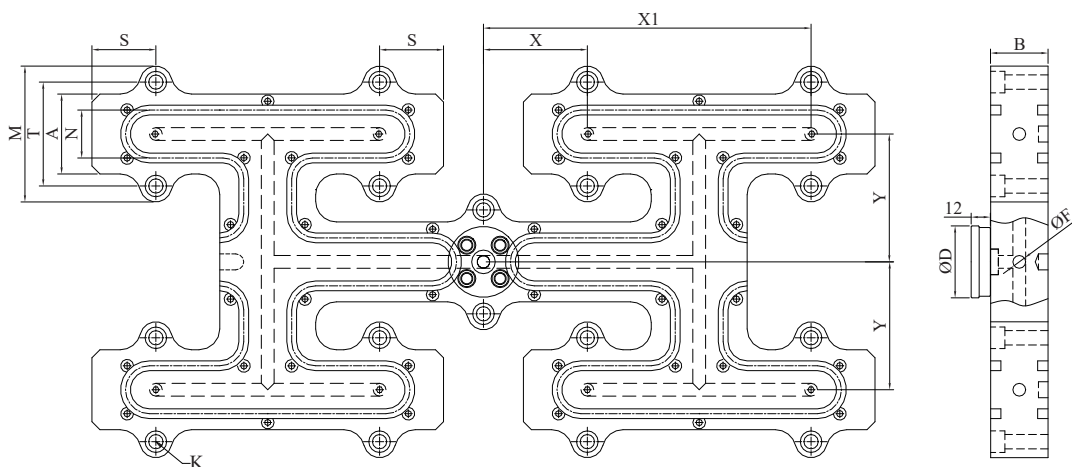
單位：mm

SERIES	M	T	A	N	S	B	K	ØD	ØF	X	Y
HMX-080	80	60	50	30	40	35	M8	45	6/8	---	---
HMX-090	90	70	60	40	40	38	M8	45	10/12	---	---
HMX-100	100	80	70	50	50	40	M8	50	16/18	---	---


 四穴"H"形
 4 drop-(H)

單位：mm

SERIES	M	T	A	N	S	B	K	ØD	ØF	X	Y
HMH-080	80	60	50	30	40	35	M8	45	6/8	---	---
HMH-090	90	70	60	40	40	38	M8	45	10/12	---	---
HMH-100	100	80	70	50	50	40	M8	50	16/18	---	---

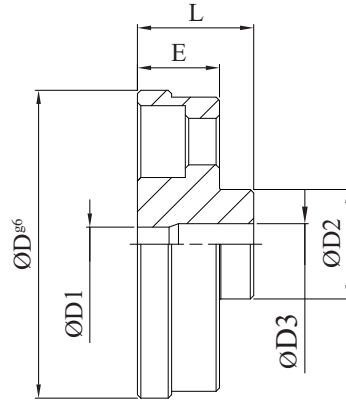
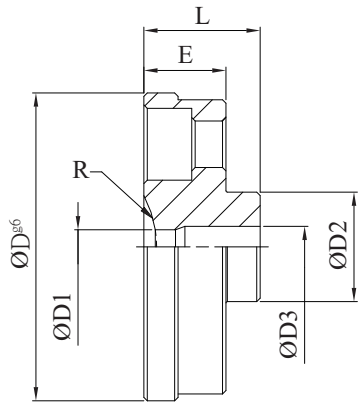


單位：mm

 八穴"H2"形
 8 drop-(HH)

SERIES	M	T	A	N	S	B	K	ØD	ØF	X	X1	Y
HMH2-080	80	60	50	30	40	35	M8	45	6/8	---	---	---
HMH2-090	90	70	60	40	40	38	M8	45	10/12	---	---	---
HMH2-100	100	80	70	50	50	40	M8	50	16/18	---	---	---

分流板中央灌嘴 / Manifold Injection Bushing

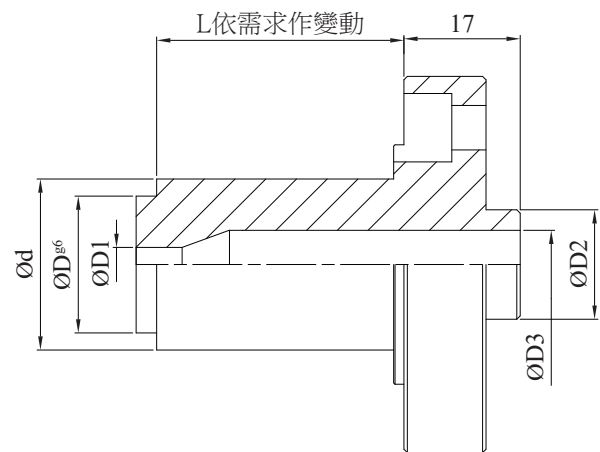
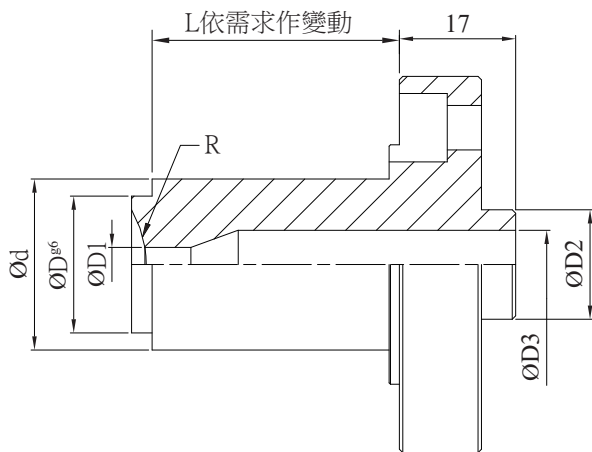


E=12/15/20

L=17/20/25

型號	ØD	ØD1	ØD2	ØD3	R
TE-R-4506	45.00	5.00	16.00	6.00	16.00
TE-R-4508	45.00	5.00	16.00	8.00	16.00
TE-R-4510	45.00	5.00	16.00	10.00	16.00
TE-R-5012	50.00	6.00	16.00	12.00	20.00
TE-R-5014	50.00	6.00	25.00	14.00	20.00
TE-R-5018	50.00	8.00	25.00	18.00	20.00

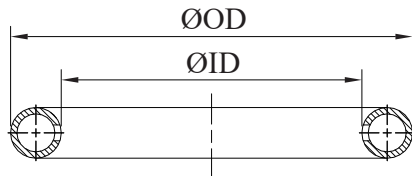
型號	ØD	ØD1	ØD2	ØD3
TE-F-4506	45.00	5.00	16.00	6.00
TE-F-4508	45.00	5.00	16.00	8.00
TE-F-4510	45.00	5.00	16.00	10.00
TE-F-5012	50.00	6.00	16.00	12.00
TE-F-5014	50.00	6.00	25.00	14.00
TE-F-5018	50.00	8.00	25.00	18.00



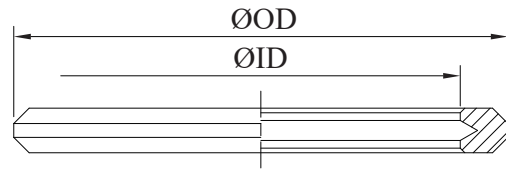
型號	Ød	ØD	ØD1	ØD2	ØD3	R
TE-R-2506	25.00	20.00	5.00	16.00	6.00	16.00
TE-R-2508	25.00	20.00	5.00	16.00	8.00	16.00
TE-R-2510	25.00	20.00	5.00	16.00	10.00	16.00
TE-R-2512	25.00	20.00	5.00	16.00	12.00	21.00
TE-R-3208	32.00	26.00	6.00	20.00	8.00	16.00
TE-R-3210	32.00	26.00	6.00	20.00	10.00	16.00
TE-R-3212	32.00	26.00	6.00	20.00	12.00	21.00

型號	Ød	ØD	ØD1	ØD2	ØD3
TE-F-2506	25.00	20.00	5.00	16.00	6.00
TE-F-2508	25.00	20.00	5.00	16.00	8.00
TE-F-2510	25.00	20.00	5.00	16.00	10.00
TE-F-2512	25.00	20.00	5.00	16.00	12.00
TE-F-3208	32.00	26.00	6.00	20.00	8.00
TE-F-3210	32.00	26.00	6.00	20.00	10.00
TE-F-3212	32.00	26.00	6.00	20.00	12.00

分流板零配件 / Manifold Accessories



(不銹鋼 O 型環)
Stainless steel O-ring

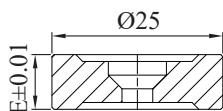


(鋁 O 型環)
Aluminium O-ring

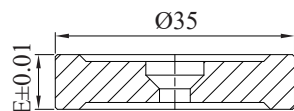
(不銹鋼 O 型環) Stainless steel O-ring			
"O"RING NO.	"O"RING BORE DIM.	INNER DIA.	OUTER DIA.
007	12.80	9.53	12.75
008	14.40	11.10	14.27
010	17.60	14.27	17.45
020	20.88	17.45	20.65
030	22.38	19.05	22.23
040	27.13	23.80	26.97
050	30.33	26.97	30.18

(鋁合金 O 型環) Aluminium O-ring		
"O"RING NO.	INNER DIA.	OUTER DIA.
607	9.50	12.60
608	11.10	14.25
610	14.30	17.45
620	17.50	20.65
635	21.00	24.15
650	26.90	30.15

① 上墊塊-AB
Upper supporter pad

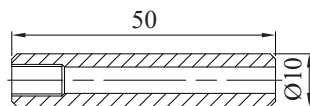


② 上墊塊-AB
Upper supporter pad

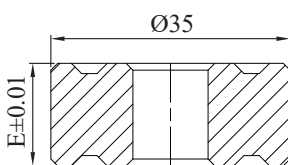


E=8/10

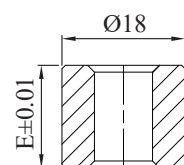
③ 定位銷-AP
Dowel pin



④ 中心墊塊-AC
Center supporter pad



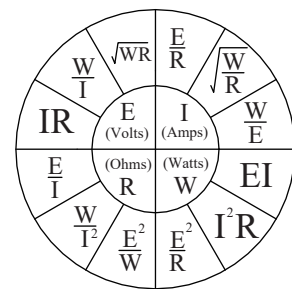
⑤ 下墊塊-AD
Lower supporter pad



E=10/15/20

電壓、電流、電阻、瓦特數換算表
Voltage, Current, Resistance and Wattage calculation

Ohm's Law



Wattage varies directly as ratio of voltages squared

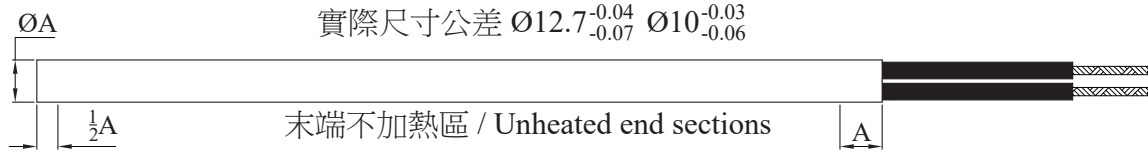
$$W_2 = W_1 \times \left(\frac{E_2}{E_1}\right)^2$$

$$3 \text{ Phase Amperes} = \frac{\text{Total Watts}}{\text{Volts} \times \sqrt{3}}$$

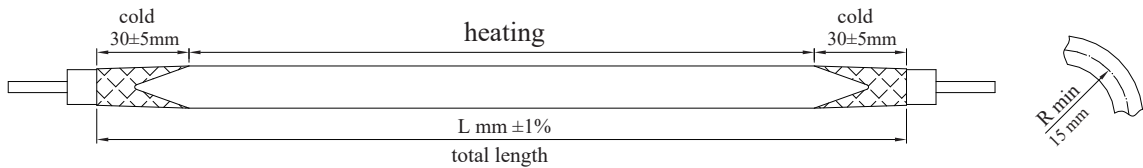
備註：
 Volts=E=電壓 Amperes=I=電流
 Ohms=R=電阻 Watts=W=瓦特數

電熱棒及管狀加熱器規格表

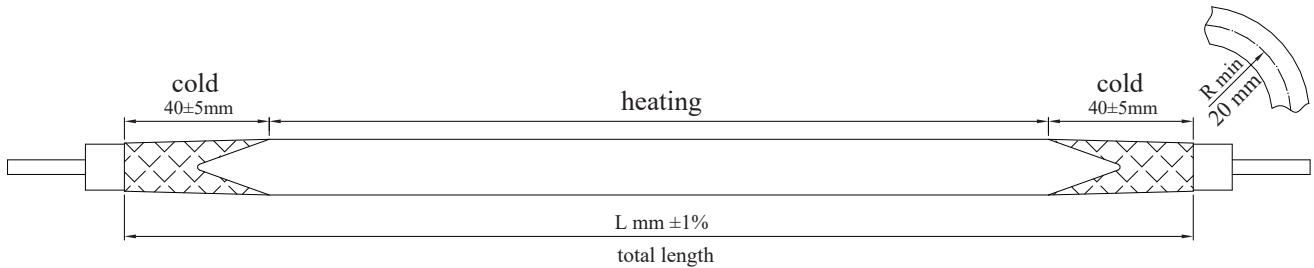
Cartridge heater and Tubular heater stock table



產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V	產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V	產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V
CA-127050SN	CA-Ø12.7×50.8mm	315Wx2"	CA-127203SN	CA-Ø12.7×203.2mm	1100Wx8"	BA-100090SN	BA-Ø10×90mm	500W
CA-127063SN	CA-Ø12.7×63.5mm	315Wx2.5"	CA-127215SN	CA-Ø12.7×215.9mm	1200Wx8.5"	BA-100100SN	BA-Ø10×100mm	500W
CA-127076SN	CA-Ø12.7×76.2mm	400Wx3"	CA-127228SN	CA-Ø12.7×228.6mm	1300Wx9"	BA-100120SN	BA-Ø10×120mm	600W
CA-127088SN	CA-Ø12.7×88.9mm	500Wx3.5"	CA-127241SN	CA-Ø12.7×241.3mm	1400Wx9.5"	BA-100140SN	BA-Ø10×140mm	700W
CA-127101SN	CA-Ø12.7×101.6mm	630Wx4"	CA-127254SN	CA-Ø12.7×254.0mm	1600Wx10"	BA-100160SN	BA-Ø10×160mm	800W
CA-127114SN	CA-Ø12.7×114.3mm	630Wx4.5"	CA-127279SN	CA-Ø12.7×279.4mm	1800Wx11"	BA-100180SN	BA-Ø10×180mm	900W
CA-127127SN	CA-Ø12.7×127.0mm	700Wx5"	CA-127304SN	CA-Ø12.7×304.8mm	1800Wx12"	BA-100200SN	BA-Ø10×200mm	1000W
CA-127139SN	CA-Ø12.7×139.7mm	700Wx5.5"	CA-127330SN	CA-Ø12.7×330.2mm	1800Wx13"	BA-100220SN	BA-Ø10×220mm	1100W
CA-127152SN	CA-Ø12.7×152.4mm	800Wx6"	BA-100050SN	BA-Ø10×50mm	315W	BA-100240SN	BA-Ø10×240mm	1150W
CA-127165SN	CA-Ø12.7×165.1mm	800Wx6.5"	BA-100060SN	BA-Ø10×60mm	315W	BA-100260SN	BA-Ø10×260mm	1250W
CA-127177SN	CA-Ø12.7×177.8mm	900Wx7"	BA-100070SN	BA-Ø10×70mm	400W	BA-100280SN	BA-Ø10×280mm	1400W
CA-127190SN	CA-Ø12.7×190.5mm	1000Wx7.5"	BA-100080SN	BA-Ø10×80mm	400W	BA-100300SN	BA-Ø10×300mm	1500W



產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V	產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V	產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V
CB-060035N	CB-6×6 350mm	550W	CB-060060N	CB-6×6 600mm	1000W	CB-060085N	CB-6×6 850mm	1450W
CB-060040N	CB-6×6 400mm	650W	CB-060065N	CB-6×6 650mm	1100W	CB-060090N	CB-6×6 900mm	1550W
CB-060045N	CB-6×6 450mm	750W	CB-060070N	CB-6×6 700mm	1200W	CB-060095N	CB-6×6 950mm	1650W
CB-060050N	CB-6×6 500mm	800W	CB-060075N	CB-6×6 750mm	1300W	CB-060100N	CB-6×6 1000mm	1750W
CB-060055N	CB-6×6 550mm	900W	CB-060080N	CB-6×6 800mm	1350W	CB-060105N	CB-6×6 1050mm	1850W

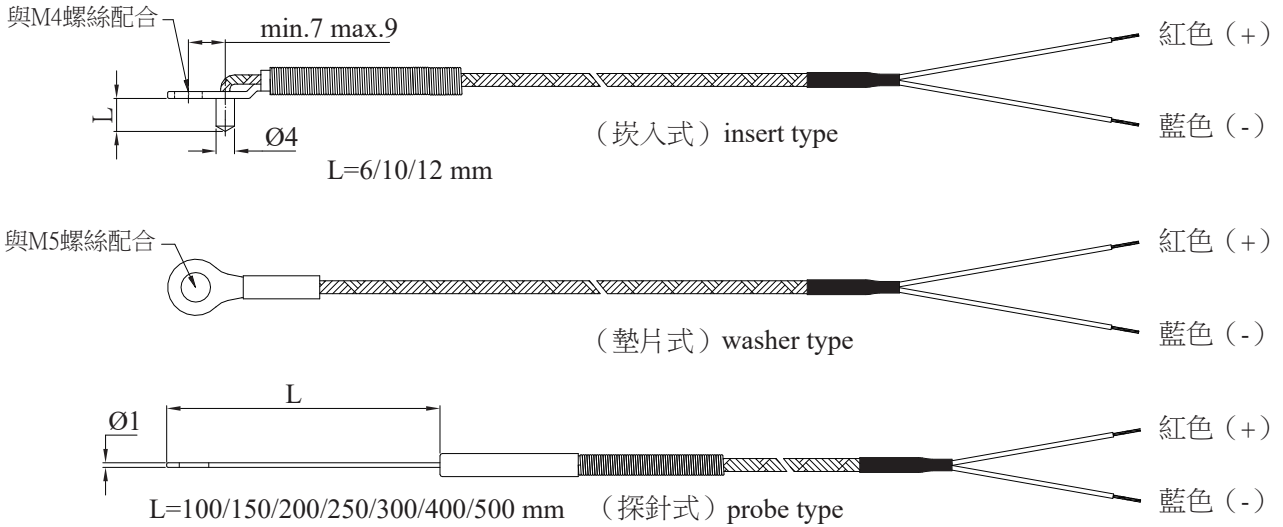


產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V	產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V	產品編號 CODE	規格 Diameter & Length	瓦特數 W/230V Watt W/230V
CB-080040N	CB-8×8 400mm	1000W	CB-080065N	CB-8×8 650mm	1500W	CB-080090N	CB-8×8 900mm	1800W
CB-080045N	CB-8×8 450mm	1100W	CB-080070N	CB-8×8 700mm	1600W	CB-080095N	CB-8×8 950mm	1850W
CB-080050N	CB-8×8 500mm	1200W	CB-080075N	CB-8×8 750mm	1650W			
CB-080055N	CB-8×8 550mm	1300W	CB-080080N	CB-8×8 800mm	1700W			
CB-080060N	CB-8×8 600mm	1400W	CB-080085N	CB-8×8 850mm	1750W			

備註: 非標準尺寸可訂做 / Note: non-standard order is acceptable

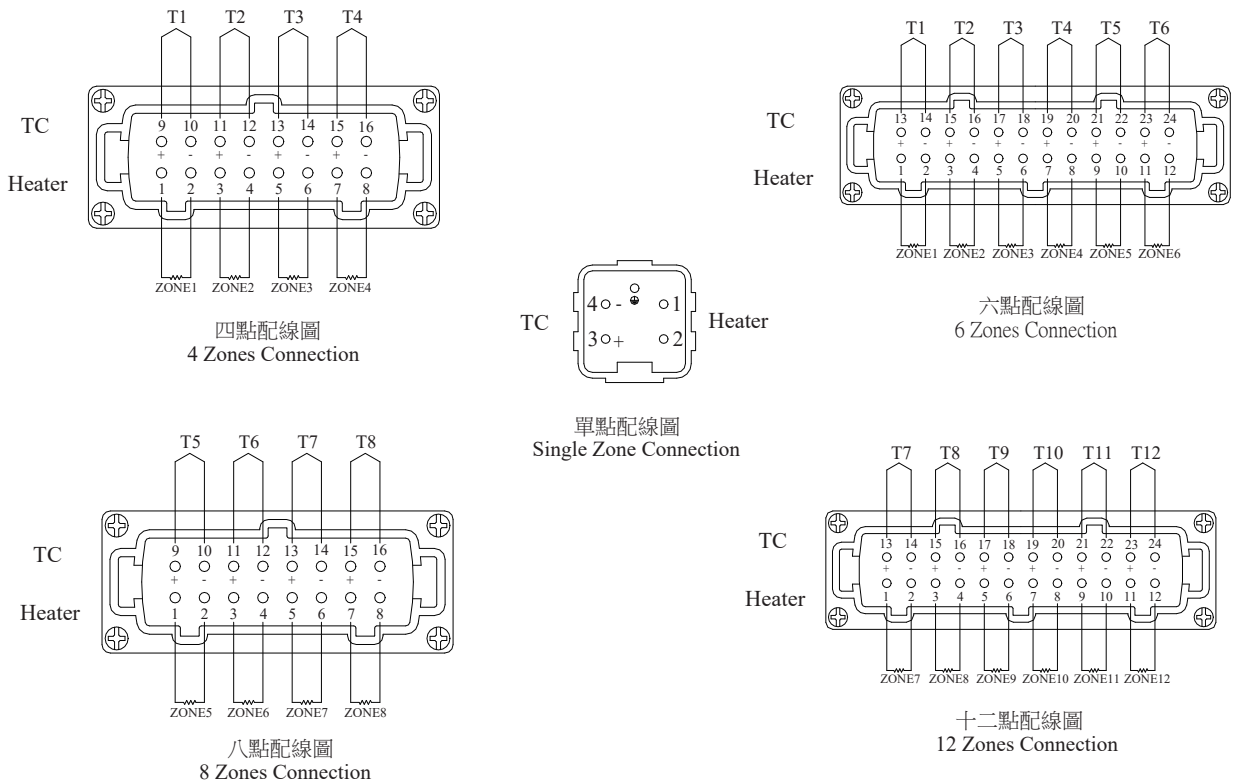
感溫線 (J-TYPE)

標準線長1000mm, 可提供更長尺寸 / Standard length: 1000mm, different length available upon request.



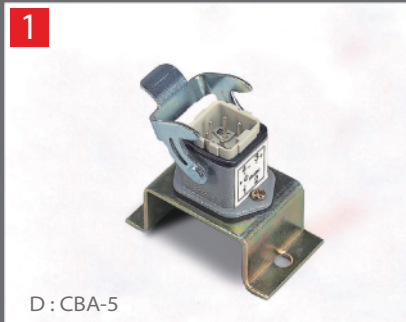
J Type : 歐規 紅(+) 藍(-), 美規 白(+) 紅(-) EUROPE TYPE RED (+) BLUE (-), US TYPE WHITE (+) RED (-)

標準配線方式 Standard Electrical Wiring



溫控器至模具上電熱感溫纜線及插座盒規格

Temperature controller accessories



模具梯型固定座規格 / *Set dimensions for connectors (on mold side)* 單位: mm

項目 NO.	產品型號 PRODUCT CODE	適用插座 CONNECTION	插座編號 CONNECTION CODE	固定座 SET	固定座編號 SET PRODUCT CODE	長 LENGTH	寬 WIDTH	高 HEIGHT	固定螺孔距 PITCH BETWEEN SCREW HOLES	
1	D: CBA-5	5PIN側掛勾公接線盒	CN-5AN1	5PIN集線盒	CB1-5	69	35	25	57 (M6 x 2孔)	
2	D: CBC-16R/S	16PIN有蓋公接線盒	CN-16BN1	16-24PIN集線盒	CB-16240106 R/S	166.2	58.2	50	X:44	Y:152
	D: CBC-24R/S	24PIN有蓋公接線盒	CN-24BN1	16-24PIN集線盒	CB-16240106 R/S	166.2	58.2	50	X:44	Y:152



模具方型固定座規格 / *Set dimensions for connectors (on mold side)* 單位: mm

項目 NO.	產品型號 PRODUCT CODE	適用插座 CONNECTION	插座編號 CONNECTION CODE	固定座 SET	固定座編號 SET PRODUCT CODE	長 LENGTH	寬 WIDTH	高 HEIGHT	固定螺孔距 PITCH BETWEEN SCREW HOLES	
									X	Y
3	D: CBC-1610	16PIN有蓋公接線盒	CN-16BN1	16-24PIN 集線盒	CB-16240110	164	61	104	38.5	153
	D: CBC-2410	24PIN有蓋公接線盒	CN-24BN1	16-24PIN 集線盒	CB-16240110	164	61	104	38.5	153
4	D: CBD-5	10PIN側掛勾公接線盒 25PIN側掛勾公接線盒	CN-10AN1 CN-25AN1	10-25PIN 集線盒	CB-102502	220	61	104	38.5	208
	D: CBD-8	16PIN側掛勾公接線盒 25PIN側掛勾公接線盒	CN-16AN1 CN-25AN1	16-25PIN 集線盒	CB-162502	240	61	104	38.5	228
	D: CBD-12	24PIN側掛勾公接線盒 25PIN側掛勾公接線盒	CN-24AN1 CN-25AN1	24-25PIN 集線盒	CB-242502	267	61	104	38.5	255

訂購溫控器時，需注意、註明：

1. 使用地區之電力系統，電壓相數及線數。
2. 控點數及每區電熱容量。
3. 感溫線型式 (J型或K型)，標準規格: J型。
4. 輸出纜線長度。
5. 插座及插座盒規格。
6. 選用配備。

Please specify the following questions when order temperature controller

1. What power source you provide.
2. How many control zones are needed? Specify the power and amperage for each zone.
3. Thermocouple type : J or K? Standard stock is J type.
4. Specify cables length and connectors.
5. Connectors and housings.
6. Choose optional accessories.

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