

精湛光學科技股份有限公司



精湛光學科技股份有限公司(柳營成型機製造廠)

Ching Chan Optical Technology Co., Ltd.

(Multistage Blot Former Manufactory)

73663 台南市柳營區柳營路一段207號

No.207, Sec. 1, Liuying Rd., Liuying Dist., Tainan City 73663, Taiwan (R.O.C.)

TEL: +886-6-6226627 FAX: +886-6-6226637



CHING CHAN OPTICAL TECHNOLOGY CO., LTD.

**緊固件
生產智慧整合
設備製造商**

**Integration Supplier of -
Fastener Smart Production**

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了解客戶的需求 Understand Customers' Requirements

Exceed Customers' Expectation

超越顧客的期望



關於精湛 About Us

精湛光學科技股份有限公司台灣柳營廠於2018年2月正式啟用，占地58,195平方公尺，主要作為成型機生產製造基地，突破過去傳產框架，打造高規模製造廠房。精湛擁有全球首創智慧產線整合技術，從成型、甩油、搓牙至終端光學篩選及線上即時監控，為扣件產業打造一條龍式自動化生產設備，朝向工業4.0邁進。另外，針對標準螺絲成型機(10B及13B)採取計劃性大量生產，達到您高品質及交期快速之需求。精湛所有產品皆導入自行開發軟體系統，並且擁有完善的售服網絡，我們提供全球客戶最完整的需求評估及服務。

Ching Chan Optical Technology Co., Ltd.(CCM) new Liu Ying plant start operating since February, 2018. The new plant is around 58,195 square meters large, and it's the brand new production base for CCM Bolt&Parts Former. In this new plant we dedicated to break the framework in tradition machine manufacturing field, and we try to reach the highest quality and the maximum economic scale at the same time.

CCM developed world's first smart production line integration. This production line begin from former, oil centrifuge machine, threading machine till optical sorting machine for final inspection. And all above equipment can be monitor by our self-develop online real-time monitor system. So, this can help our customer in the fastener industry to archive one-stop automated production, and bring us achieve industry 4.0. Besides, our mass production plan for standard 10B & 13B machine can fully satisfy your demand for high quality and short lead-time requirement for Bolt Former.

CCM products are all imported with our self-develop system, and our perfect service network team can satisfy all your after-sale service in time. By doing so we offer our global customer complete demand assessment and service.



公司規模 Company Overview

股票代碼:2070



- 公司成立：1992年
Company Founded: 1992
- 設立資本：新台幣 3.2億
Capital: 320 million NT Dollars
- 董事長：吳俊男 先生
Chairman: Alex Wu
- 員工人數(台灣+大陸): 360人
Staff member (Taiwan and China): 360 Employees
- 集團總部：高雄市湖內區
Group headquarters: Kaohsiung, Taiwan
- 成型機製造基地：台南市柳營區
Multistage bolt former manufactory: Tainan, Taiwan
- 集團分部：台中、桃園、昆山、寧波、東莞、重慶
Branch offices: Taichung, Taoyuan, Kunshan, Ningbo, Dongguan, Chongqing

世界冠軍的思維，讓台灣在國際發光

With A World Champion Mindset, Let Taiwan Stand Out Conspicuously.

本著「了解客戶的需求、超越顧客的期望」經營理念，精湛從緊固件製程源頭成型、到成品檢測一手包辦，為緊固件產業提供最大的附加價值。目前於兩岸建立起八大銷售據點，拓展全球銷售版圖，至今產品足跡已遍及世界30餘國，我們突破傳統製造業框架，走向高科技精密產業，秉持品質至上、服務第一理念，朝向「全球緊固件產業設備製造商第一品牌」邁進。

By the company philosophy of "Understand customers' requirements, Transcend customers' expectations", CCM is dedicated to achieving maximum added value with the total solution from controlling the origins of fastener production to finished goods inspection. We have eight offices in Taiwan and China, moreover, our products have already sold to more than 30 countries. To become the No. 1 of the industrial fastener equipment manufacturer, we never compromise quality and consistently offer remarkable service to transform traditional manufacturing industry to precision technology industry.



獲獎事蹟 Awards



第25屆國家磐石獎
25th SMEA award



第38屆創業楷模
38th entrepreneurial model

慈善活動 Charity Events

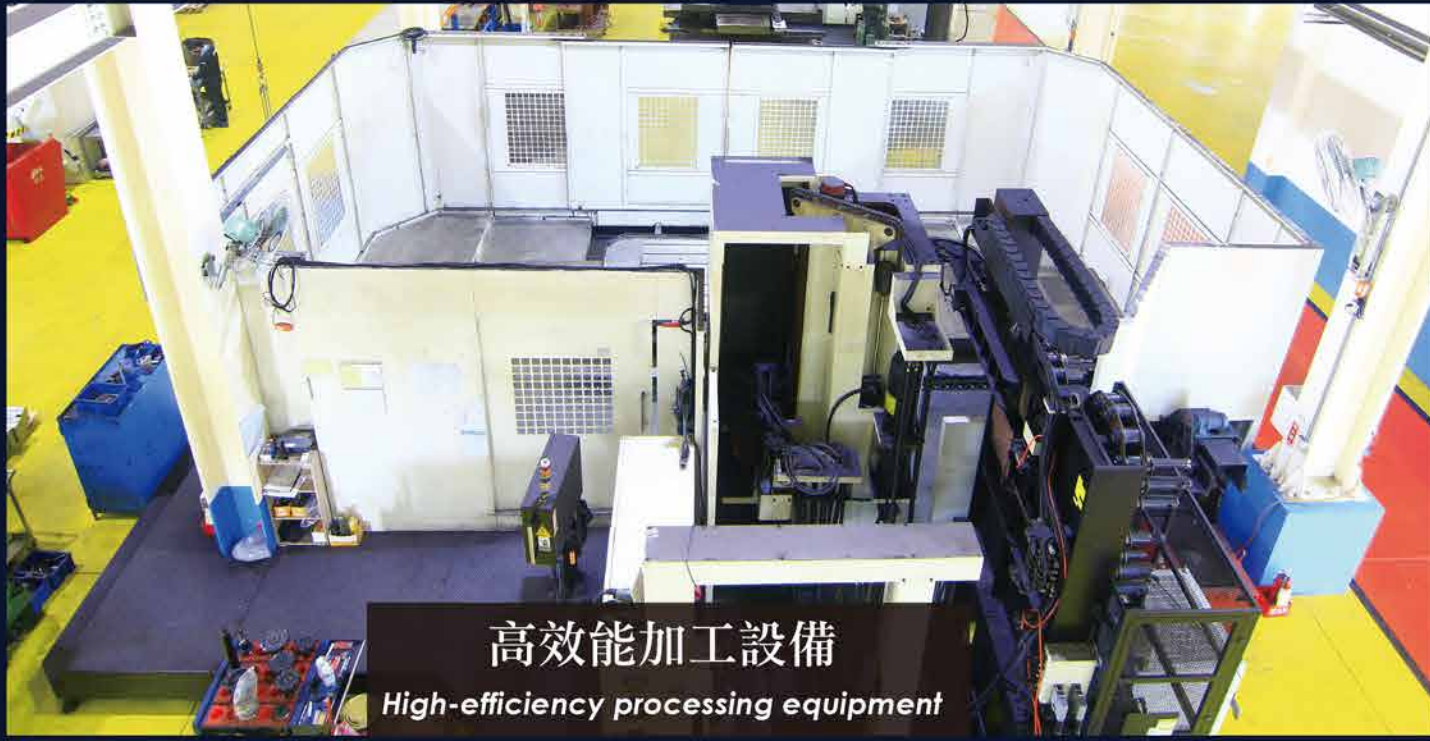


雲林縣精湛文教基金會
Ching Chan -
Education Foundation



精湛團隊 CCM Team





高效能加工設備
High-efficiency processing equipment



全方位倉儲管理
Complete warehouse management



汽車級烤漆室
Automotive level paint room



大規模製造基地
Large-scale manufacturing base

減少70%人力配置

Reduce 70% human resource,

提高50%生產效能

increase 50% production capacity.



► 可依需求顯示即時資訊，產出各式報表分析。
Immediate information display and report analysis output.



自動化智慧產線整合

產業升級

自動化智慧產線適用於大量生產之緊固件，製程全面自動化連線及線上檢測，一人可同時監控數條產線。線上設備若發生異常會進行自動停機，設定時間內如故障無排除則全線自動停機。

即時監控

製程智慧監控在生產過程中可依需求產出各式SPC報表，並讓管理者於全球各地皆能隨時進入系統，即時掌控品質及進度，達到高速生產、零不良品產出需求

產能價值

透過精密高速篩選設備取代傳統人工抽檢，大幅減少製程中自主檢查及成品檢驗所花費的時間、人力及運輸成本，更確保產品的最高品質。

Intellectual Automation Production Integration

Industrial Upgrade

Automated intelligent production line is suitable for mass production of fasteners, and the production process is fully connected, automated and with online inspection. One person can monitor several production lines at the same time.

If an abnormality occurs in production line, it will be automatic shut-down. And if the failure is not eliminated within the set time, the entire line will automatically stop.

Real-time Monitoring

Process intelligence monitoring system can output all types of SPC report, and the manager can access to the system anytime, anywhere. To fulfill real-time quality control and schedule, and to achieve your demand for high-speed production and zero defective product output.

Highest Quality

Replacing traditional manual inspection with precision high-speed optical sorting equipment can drastically reducing the time, the manpower, and the transportation costs. This can ensure your product is always in highest quality

六模長尺寸特殊零件成型機

6 STATION BOLT PARTS FORMER

CPS - 13B6S (Ø15X110mm)



人機操作介面
主滑板微調電子手輪

Ram Slow Motion in Digital Handwheel

以電子手輪旋鈕控制主滑板前進及後退,方便模具校正及母夾調整。

Main slider slow motion in digital handwheel- using digital handwheel to control main slider moving in slow motion to adjust the tooling and finger open timing.



夾仔台電動升降

Automatic Elevating Transfer



翻轉氣壓式夾仔台

Universal Rotary Transfer Mechanism



可調式PKO

PKO Adjustment System



變頻器+離合器

Inverter + Clutch



以伺服馬達控制調整母模胚料長度,更加精準。

Adjust the die forging blank length precisely in servo motor control.

後托伺服調整

K.O Length Adjustment by Servo Motor



以伺服馬達控制調整成型胚料長度,更加精準。

Adjust the cutting blank length precisely in servo motor control.

擋料伺服調整

Stopper Length Adjustment by Servo Motor

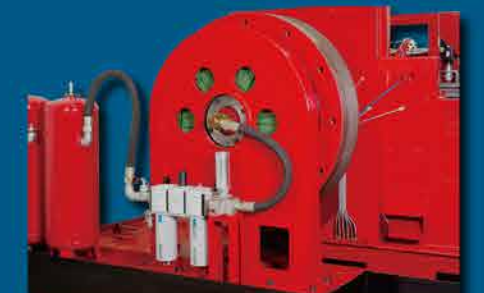


以伺服馬達控制調整送料長度,更加精準。

Adjust the feeding length precisely in servo motor control.

送料伺服調整

Wire Feeding Length Adjustment by Servo Motor



四模四沖螺絲成型機

4 DIE 4 BLOW BOLT FORMER

CBS - 19B4S (M12X125mm)



擋料手輪調整

Stopper Adjustment by Handwheel



後托手輪調整

K.O. Adjustment by Handwheel



臥式線架

Horizontal Wire Stand



單向軸承電動送料

One way bearing feeding adjustment by digital control



水平砲管式後托

Horizontal Cylinder Plunger Type K.O. System



備軸傳動

Rear Shaft



進退料馬達

Material Return Motor



防噪音護蓋

Noise Proof Cover

精密高速螺絲成型機

HIGH PERFORMANCE FORMER

CHS - 10B4S (M6X50mm)



差異化 Differentiation

機型 Model	產能 Productivity
標準成型機 Standard Former	200~250 (pcs/min)
精密高速成型機 High Performance Former	300~350 (pcs/min)

※實際最大生產量依產品而定
The actual max output depends on applicable products.



英國進口淨油機(選配)

UK MAMN+HUMMEL Oil Filter (Option)

防噪音橡膠圈

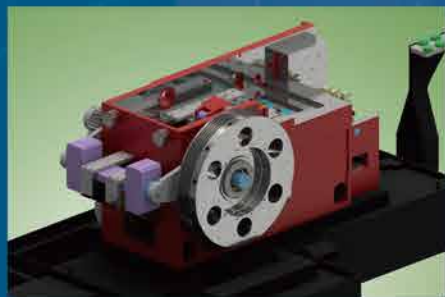
Sound Proof Rubber Sealing



夾仔台滑板採用鋁合金材質，具有低密度、高強度特性。另夾仔台主滑板兩側採用耐磨鋼板，達到高精度、低磨耗。
Lightweight transfer slider set in Duralumin material with low density and high strength. Also using steel plates in transfer slider sides to reach high precision and low wear.

輕量化夾仔台

Lightweight Transfer Slider Set



主滑板經精密計算後加上配重滑塊以穩定車台，達到高速高穩定。
Precision calculation main slider with weight counterbalance design is running in high stable speed.

配重滑塊

Weight Counterbalance Design



日本品牌離合器

Air Clutch of Japanese Brand



切刀主軸為四角設計，材質採用特殊鋁合金，切斷時不會有偏擺情況。
Square cutter main crank in Duralumin material keeps cutting strictly.

切刀機構優質化

Optimizing Cutter System - Square Cutter Main Crank in Duralumin Material



內部控制面板

Inner Control Panel

精密高速螺絲成型機

HIGH PERFORMANCE FORMER

CHS - 17B3S (M10X100mm)

同樣的配置空間

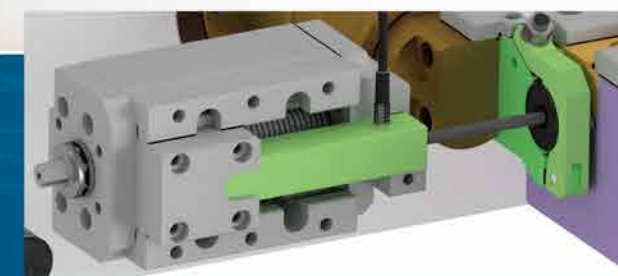
Same Space,

創造倍數的產能

Double Performance and Productivity.



- 高穩定度 High Stability
- 高效能 High Precision
- 高精度 High Performance



壓力感應擋料塊
Piezo Stopper



自行開發人機介面
Developed HMI



齒輪箱與變頻器搭配，可增加速度調整範圍，形成高速與低速兩段區間。

It can adjust the two section speed range as higher speed and lower speed by gearbox and inverter adjustment.

二段變速齒輪箱

2 Section speed gearbox



可調式PKO

PKO Adjustment System

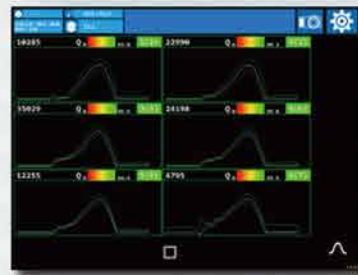
壓力感測設備

PROCESS MONITORING

PM700



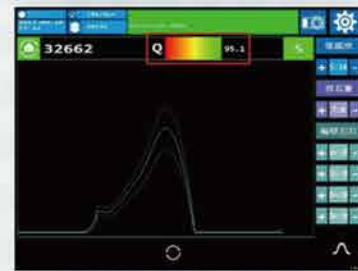
▶ 可於線上監控，在生產過程中防止不良品產生。
To prevent creating NG goods during production by monitoring online.



動態監控 Wave Monitoring

即時呈現產品生產時所回饋之相對壓造力並以圖形化曲線顯示。自動產生包圍曲線，以此檢驗設備是否出現異常。

Dynamically monitor the changes of force during every forming period with graphic displays, automatically generate envelope curves to verify if the machine is working properly. Alert when abnormal changes occur.



穩定性顯示 Stability Displaying

產品生產時，顯示壓造力變化的穩定性與一致性。

Show the stability and consistency of force variations each forming period generates.



趨勢監控 Trend Monitoring

產品生產過程中，壓造力會緩慢變化，在達到不要求之設定值時，顯示異常。
Using the initial force as a reference, alert when the force gradually degrading or increasing to a certain set proportion.



偏移校正 Shift Adjustment

可以調整包圍曲線的偏移量，避免非必要之異常檢出，導致設備停止運作。
Adjust the envelope curves slightly to avoid machine stops due to unnecessary abnormal detections

感測器

Sensor

+



主機

Main Frame



觸發線

Trigger



控制器

Controller Box

其他功能 Miscellaneous function

1	時間 / 總產量 / 速度 顯示與儲存	Time / Total Production / Speed Display & Save
2	多模 / 單模 波型顯示	Multiple / Single Wave Interface Switch
3	手動 / 自動 異常畫面擷取	Auto / Manual Error Screenshot
4	狀態顯示欄 / LED警示	Status Display Bar / LED Light
5	連網監控 (選配)	Networking (Option)
6	設備連動 (選配)	Auto Start/Stop (Option)

機型規格 Specification

1	觸控螢幕 Touch Screen	15吋	5	重量 Weight	Approx. 9kg
2	支援通道 Maximum Channels	8入	6	功耗 Power Consumption	90 W
3	網路埠 Ethernet Ports	2入	7	尺寸 Dimension	W=447mm, H=417mm, T=175mm
4	USB埠 USB Ports	*3(2.0); *1(3.0)	8	輸入電壓 Input Voltage	AC 100V~230V

壓力感測設備可應用範圍

Process Monitor available:

人機介面程式全由精湛研發團隊自行開發，彈性調整您的各種需求。

The human machine interface was developed by CCM's R&D team, it could be flexible adjustment depend on customer's request.

螺絲/螺帽成型機

Bolt & Parts Former / Nut Former



搓牙機

Threading Machine



打頭機

Heading Screw Machine



沖床

Stamping Press



合模機

Open Die Machine

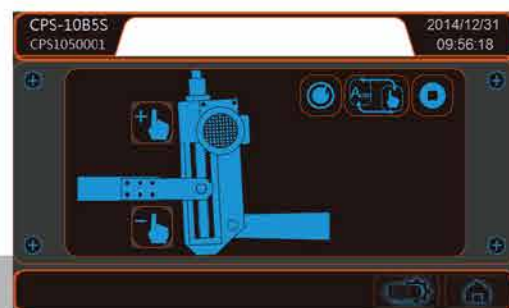


應用範圍廣泛，可適用於各種含有沖鍛的機械設備。

Process Monitor has wide range of application. It can be apply to variety of equipment has forging motion during operation.



人機介面主畫面
Human Machine Interface



送料、擋料及後托系統的圖形操作面板
Wire Feeding, Stopper, K.O.
Operated by Graphical Panel



操控畫面 Operation Panel



異常紀錄 Error Log



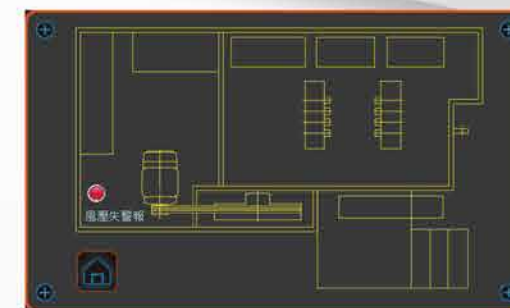
送料、擋料及後托系統的圖形操作面板
Wire Feeding, Stopper, K.O.
Operated by Graphical Panel



送料、擋料及後托系統的圖形操作面板
Wire Feeding, Stopper, K.O.
Operated by Graphical Panel



異常排除 Abnormity Removing



異常顯示 Abnormity Indication

五模及六模長尺寸特殊零件成型機 / CPS & CPD SERIES

5&6 STATION BOLT PARTS FORMER

四模四沖 螺絲成型機 / CBS SERIES

4 STATION 4 BLOW BOLT FORMER

機型 MODEL	CPD 10B	CPS 10B	CPS 13B	CPS 17B	CPS 19B	CPS 24B	CPS 30B	CPS 36B	CPD 13B6SL
模數 FORGING STATION	5	6	5 6	5 6	5 6	5 6	5 6	5 6	6
最大切斷直徑 CUT-OFF DIA MAX(mm)	12	12	15	17	19	23	30	34	16
最大切斷長度 CUT-OFF LENGTH MAX(mm)	120	100	110	140	165	200	250	280	180
後托頂出長度 KICK-OUT LENGTH MAX(mm)	110	80	85	120	145	175	220	260	170
前托頂出長度 P.K.O LENGTH MAX (mm)	25	25	25	30	35	45	45	50	30
夾子翻轉長度 MAX .CHUCK TURN LENGTH (mm)	25	25	40	40	60	70	100	120	40
切模 CUT-OFF QUILL (D×L) (mm)	40x60	40x60	50x80	50x80	60x100	75x100	95x120	110x155	50x80
母模 MAIN DIE HOLE (D×L) (mm)	50x130	50x130	70x135	80x150	95x175	108x200	125x240	155x280	70x185
母模中心距離 DIES PITCH (mm)	69	69	87	93	114	126	138	174	87
公模束 PUNCH HOLE (D×L) (mm)	40x110	40x110	50x120	50x120	65x150	75x180	90x220	110x240	50x130
主滑板行程 RAM STROKE (mm)	150	150	190	200	240	280	360	400	250
壓造力 FORGING POWER (ton)	55	65	110 135	140 170	185 220	220 260	300 400	460 550	110
每分鐘最大產能 MAX.OUTPUT (pcs/minute)	160	160	130	120	110	90	65	60	120
主馬達 MAIN MOTOR (hp)	20	25	30 40	40 50	75 75	100 100	125 125	150 175	50
機械重量 APPROX.WT.(ton)	14	16	17 19	24 27	38 43	60 65	77 85	115 128	26

機型 MODEL	CBS 10B	CBS 13B	CBS 17B	CBS 19B	CBS 24B	CBS 30B	CBS 36B	
模數 FORGING STATION	4							
產品 PRODUCTS	尺寸 SIZE	1/4(M6)	5/16(M8)	3/8(M10)	1/2(M12)	5/8(M16)	3/4(M20)	1(M24)
	最長長度 MAX.L(mm)	65	75	100	125	150	200	250
	最短長度 MIN.L (mm)	14	16	16	20	25	40	60
最大切斷直徑 CUT-OFF DIA MAX(mm)	8	10	12	15	18	23	29	
最大切斷長度 CUT-OFF LENGTH MAX(mm)	100	110	140	165	200	270	320	
後托頂出長度 KICK-OUT LENGTH MAX(mm)	80	90	120	145	175	240	290	
前托頂出長度 P.K.O LENGTH MAX (mm)	16	20	35	42	45	35	60	
切模 CUT-OFF QUILL (D×L) (mm)	28x46	35x56	40x66	46x80	60x100	75x120	90x140	
母模 MAIN DIE HOLE (D×L) (mm)	50x85	60x105	80x135	95x165	100x195	125x240	160x294	
母模中心距離 DIES PITCH (mm)	69	87	93	114	126	138	175	
公模束 PUNCH HOLE (D×L) (mm)	40x77	45x110	50x111	60x120	75x165	90x197	105x232	
主滑板行程 RAM STROKE (mm)	140	150	180	240	280	360	440	
壓造力 FORGING POWER (ton)	40	65	85	120	175	220	380	
每分鐘最大產能 MAX.OUTPUT (pcs/minute)	210	180	150	150	100	80	60	
主馬達 MAIN MOTOR (hp)	15	20	30	50	75	100	125	
機械重量 APPROX.WT.(ton)	9	11	17.5	27	49	64	108	

- 本公司隨時進行研究改善工作，因此保有隨時更改設計、規格尺寸及機械結構之權利，本目錄規格僅供參考。
We reserve the right to change the design & specifications due to continuous improvement.
- 設備產能依產品之形狀、材質及線材強度而有所差異。
Production capacity depends on applicable products, material, and tensile strength of the wire.

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四模四沖 加長型&超長型螺絲成型機 / CBD&CBU SERIES

LONG STROKE & EXTRA STROKE SERIES 4 STATION 4BLOW BOLT FORMER

三模及四模精密高速成型機 / CHS SERIES

3&4 STATION HIGH PERFORMANCE FORMER

機型 MODEL		CBD 10B4SL	CBD 13B4SL	CBU 13B4SL	CBD 17B4SL	CBD 17B5SL	CBU 17B4SL	CBD 19B4SL	CBU 19B4SL	CBD 24B4SL	CBD 30B4SL	CBD 36B4SL	
規格 SPECIFICATION													
模數 FORGING STATION		4				5		4					
產品 PRODUCTS	尺寸 SIZE	1/4(M6)	5/16(M8)	5/16(M8)	3/8(M10)	3/8(M10)	3/8(M10)	1/2(M12)	1/2(M12)	5/8(M16)	3/4(M20)	1(M24)	
	最長長度 MAX.L(mm)	100	125	200	150	150	300	200	300	300	300	300	
	最短長度 MIN.L (mm)	15	20	60	30	30	100	50	100	100	100	125	
最大切斷直徑 CUT-OFF DIA MAX(mm)		8	10	10	12	12	12	15	15	18	23	29	
最大切斷長度 CUT-OFF LENGTH MAX(mm)		120	155	240	180	180	350	240	340	340	355	370	
後托頂出長度 KICK-OUT LENGTH MAX(mm)		110	140	230	170	170	325	220	325	335	335	340	
前托頂出長度 P.K.O LENGTH MAX (mm)		16	30	40	30	30	60	35	60	60	60	60	
切模 CUT-OFF QUILL (D×L) (mm)		28x46	38x79	38x79	40x80	40x80	40x100	46x80	46x80	60x100	75x120	90x140	
母模 MAIN DIE HOLE (D×L) (mm)		50x130	70x155	70x255	80x185	80x185	80x330	95x240	95x350	100x360	125x360	160x370	
母模中心距離 DIES PITCH (mm)		69	87	87	93	93	93	114	114	126	138	174	
公模束 PUNCH HOLE (D×L) (mm)		40x110	50x115	50x140	50x130	50x130	50x200	60x170	60x250	75x232	90x232	105x235	
主滑板行程 RAM STROKE (mm)		150	210	350	250	250	460	340	460	500	500	500	
壓造力 FORGING POWER (ton)		40	60	70	85	105	90	120	120	190	300	420	
每分鐘最大產能 MAX.OUTPUT (pcs/minute)		200	180	80	150	130	70	90	65	62	56	56	
主馬達 MAIN MOTOR (hp)		20	30	30	40	50	40	50	50	100	125	150	
機械重量 APPROX.WT.(ton)		11	13	18	20	22	32	33	35	57	80	128	

- 本公司隨時進行研究改善工作，因此保有隨時更改設計、規格尺寸及機械結構之權利，本目錄規格僅供參考。
We reserve the right to change the design & specifications due to continuous improvement.
- 設備產能依產品之形狀、材質及線材強度而有所差異。
Production capacity depends on applicable products,material,and tensile strength of the wire.

機型 MODEL		CHS-10B		CHS-13B		CHS-17B		CHS-19B		CHS-24B		CHS-30B	
規格 SPECIFICATION													
模數 FORGING STATION		3 4		3 4		3 4		3 4		3 4		3 4	
產品 PRODUCTS	尺寸 SIZE	1/4(M6)		5/16(M8)		3/8(M10)		1/2(M12)		5/8(M16)		3/4(M20)	
	最長長度 MAX.L(mm)	50		75		100		125		150		200	
	最短長度 MIN.L (mm)	12		14		16		20		25		40	
最大切斷直徑 CUT-OFF DIA MAX(mm)		8		10		12		15		18		23	
最大切斷長度 CUT-OFF LENGTH MAX(mm)		70		110		125		165		190		270	
後托頂出長度 KICK-OUT LENGTH MAX(mm)		60		90		110		145		175		240	
前托頂出長度 P.K.O LENGTH MAX (mm)		14		20		25		25		30		35	
切模 CUT-OFF QUILL (D×L) (mm)		28x46		35x56		40x66		46x80		60x100		75x120	
母模 MAIN DIE HOLE (D×L) (mm)		50x65		60x105		80x135		95x165		100x195		125x240	
母模中心距離 DIES PITCH (mm)		60		87		93		114		126		138	
公模束 PUNCH HOLE (D×L) (mm)		40x77		45x110		50x111		60x120		75x165		90x197	
主滑板行程 RAM STROKE (mm)		120		150		180		240		280		360	
壓造力 FORGING POWER (ton)		20 30		40 50		55 75		80 100		140 170		200 220	
每分鐘最大產能 MAX.OUTPUT (pcs/minute)		350		275		250		200		160		120	
主馬達 MAIN MOTOR (hp)		20 25		30 30		40 50		60 75		100 100		125 125	

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 Ching Chan Optical Technology Co.Ltd.

- 高雄市湖內區忠孝街110巷58號
 No.58, Lane 110, Zhongxiao St.,
 Hu-Nei Dist., 82945, Kaohsiung City,
 Taiwan
 TEL:+886-7-6937937
 FAX:+886-7-6937017



集團總部 Headquarter

柳營成型機製造廠 Multistage bolt former manufacturer

- 台南市柳營區柳營路一段207號
 No.207, Sec. 1, Liuying Rd., Liuying Dist.,
 Tainan City 736, Taiwan
 TEL:+886-6-6226627
 FAX:+886-6-6226637



分公司 Branches

- 台中市烏日區榮和路202號
 No.202,Ronghe Rd., Wuri Dist.,
 Tichung City 414,Taiwan
 TEL:+886-4-23374777
 FAX:886-4-23385727
- 桃園市中壢區青埔四街88號1樓
 1F., No.88,Qingpu 4th St.,
 Zhongli Dist., Taoyuan City 320,
 Taiwan
 TEL:+886-3-2871277
 FAX:+886-3-2871278

昆山總部 Headquarter

昆山全盈自動化設備有限公司

- 江蘇省昆山市千燈鎮聖祥中路225號
 TEL:+86-512-5729 7027
 FAX:+86-512-5729 7029



中國大陸 China

分公司 Branches

- 重慶市渝北區回興街道蘭馨大道2號8幢
 24重慶國際五金機電城C7-22
 TEL:+86-23-6719 5077
 FAX:+86-23-6719 5077
- 浙江省寧波市北甯區緯三路28號
 TEL:+86-574-8388 7672
 FAX:+86-574-8388 7671
- 溫州市經濟開發區金海園區碧桂園5幢1901室
 TEL:+86-577-8668 6783
- 廣東省東莞市常平鎮常朗大道蘇坑牌樓側129號
 TEL:+86-769-8333 5977
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