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HUARONG GROUP Horizontal Vertical Automation



NANRONG HUARONG YUHDAK

射出成型機製造專家

整合臥、立、多射及自動化

Horizontal, Vertical, Multi injection & Automation

For all your molding needs!



Your Best Solution



Taiwan
Excellent Injection Molding Machine

達成生產是我們的責任

Huarong Group Motivate your business value.

集團秉持著卓越品質與優質服務，提供客戶對塑膠臥、立式射出及多射成型機的所有需求，並結合自主研發的自動化設備，提供整廠智慧工廠服務規劃。

我們的專業團隊，提供客戶最可靠、最耐用、最適用的產業設備，公司亦通過ISO9001/2000、CE安全規範的各項產品認證，為客人做第一線把關，並以實現客戶滿意為職志。

HUARONG PM, based on exceptional designs and quality services from the last 30 years, offering injection molding needs from both vertical and horizontal applications. Infused with full aspect automation for smart machine.

Dependable, reliable, and durable designs with ISO9001/2000 and CE certified. HUARONG brings you the equipment for the most satisfaction.

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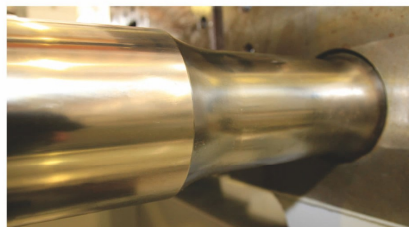
機台外觀與顏色 / Machine Appearance & Color



詳細目錄電子檔請用手機直拍 QR CODE 取得
e-Catalog is available via QR code now!

機械結構 / Mechanism

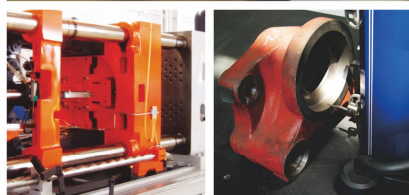
堅固、可靠、耐用 Durable, Reliable, Easy Maintenance.



專利細頸大柱設計
Patented Groove design with the tie-bars.
專利細頸大柱採用非剛性吸收設計，提升車壁與大柱穩定性。
Non-rigid absorption design of tie bar under patent, increase the reliability of platen and tie bar.

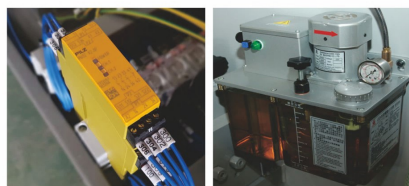
箱型模板堅固可靠的夾模機構
Box-type platen maximized the clamping durability.
箱型模板透過電腦應力分析其鋼性高、變形小、不斷裂
Computerized digital analysis to the stress & rigidity.

3D量測精密準確
3D precise analysis manufacturing.
透過精密3D量測，可確保每個生產零件的精密準確性。
All devices & parts are with 3-dimensional precisely analyzed for accuracy.



安全結構 / Safety

安全、操作方便、好保養 Safe, Convenient Operation, Easy Maintenance



CE 安全模組
CE - safety module.
CE安全模組，提升機台安全性。
Availability with CE standard to increase the safety of machine.

集中式配油閥
Centralized progressive lubrication.
曲肘自動定量打油回饋系統，自動警報回饋裝置，有效保護曲肘潤滑功能。
Pressure alarm implemented for ensuring toggle lubrication.

專利可拆式板金
Patented removable shield.
專利可拆式安全門設計，檢修機構方便省時，並符合國際安全標準需求。
Patent design of easy-take-off safety door, easier the maintenance and meets the standard of international safety requirement.

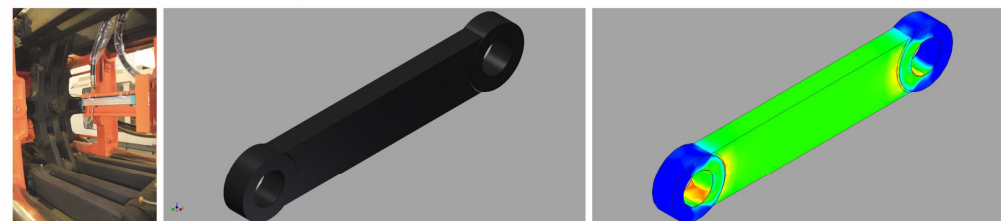


臥式肘節夾模設計 / Horizontal Toggle Clamp

內曲式肘節夾模系統 / Inward Toggle Clamping

合理成本、穩定耐用 Cost-effective, Stable & Durable.

領先業界多年經驗，合理設計與成本、穩定、堅固、可靠、易保養與維護。
Years of experience with advanced designs for professional applications.
肘節夾模系統經由電腦以專業有限元素 (FEA) 分析，剛性高、不易變形及斷裂。
Dynamic computation with FEA ensuring the mechanism durability.



互動外曲式肘節系統 / Interactive Outward Toggle

機器短、速度快、開模行程長 Compact Structure with Faster Clamping and Bigger Opening.

鎖模缸前移，設備長度縮短 18%
Shifted clamping cylinder reduced 18% machine length.

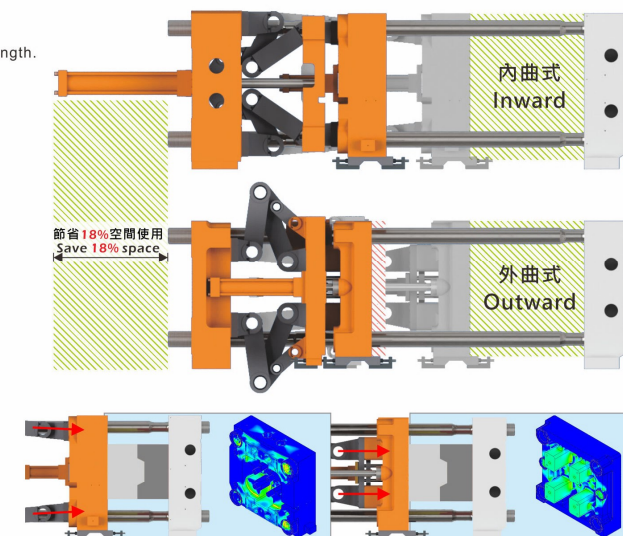
鎖模油壓缸活塞行程縮短約 40%
40% shortened clamping cylinder.

提升開模行程 20%
Enlarged opening stroke.

鎖模缸中心定位精密，鎖模力對稱
出力不偏移，開關模動作平穩流暢
Precise alignment & centering ensuring parallel & collateral clamping movement.

新式鎖模缸，開模快速定位精準，
機械手臂取物不失誤
Advanced cylinder design brought accurate positioning, ensuring robotic automation.

活動壁變形量比較
Platen deformation analysis.
外曲式曲肘鎖模力集中於活動壁中心，直接作用於模具上，以有限元素 (FEA) 分析，活動壁減少變形量約 55%
Center-forced clamping with 55% minimized deformation through FEA.



兩板式夾模系統 / 2-platen clamping system

縮短大型設備長度、開模行程長 Minimized machine length with maximized opening stroke.

機械尺寸比曲肘式縮短約 20%~30%

20% ~ 30% less from machine length, compare with toggle design.

節省長度及擺放空間，協助用戶大幅減少建廠支出，提高利用率
Less space required for a molding facility.

托模油缸採埋入式設計

Built-in design with ejection cylinder.

有效縮短機台長度
Minimized machine length effectively.

具備快速且全自動調模

Fully automatic mold-close adjustment ready.

節省模具更換時間，智慧財產局第I279312號發明
Less time needed for mold change. Paten #I279312, Intellectual Property Office, MOEA, Taiwan.

可選配生產需要特別加長開模行程

Available option for additional stroke from opening.

克服曲肘式固定開模行程缺點，無須因開模行程不足而選更大機台
Spare the larger machine needs for additional opening stroke.

可選配大柱脫離

Available option with Retractable Tie-bar function.

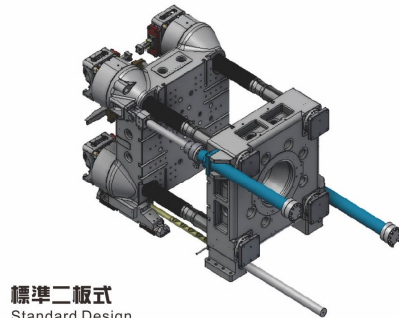
配合特殊功能模具吊模固定，不需增高廠房即可使用較大機種
With additional mold lifting module to accommodate jumbo machines in regular facility height.

油缸直壓鎖模，模具不變型，可延長模具壽命。

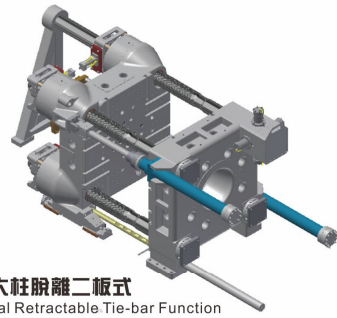
Extended Die service expectancy without deformation thanks to hydraulic cylinder clamping parallelism.

高壓鎖模行程小，可快速建立鎖模力。

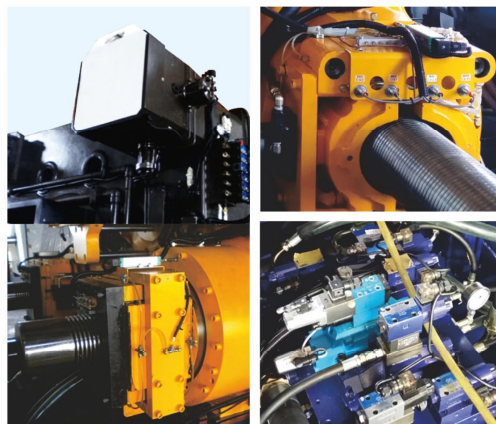
Shortened high-pressure clamping stroke thanks to ability of fast building clamping force.



標準二板式
Standard Design



選配大柱脫離二板式
Optional Retractable Tie-bar Function



動力系統 / Drive System

環保節能的動力 Green Power.

伺服馬達節能系統（選配） Servo Motor (Optional)

改用伺服馬達節能系統，省電效率加、反應時間快，提高生產精密度
With (optional) servo motor replaced performing advanced power saving, superior system reaction & molding accuracy.

節能效率

Power saving could be up to **70+%**!

系統響應時間為 40ms

Responding performance at 40ms

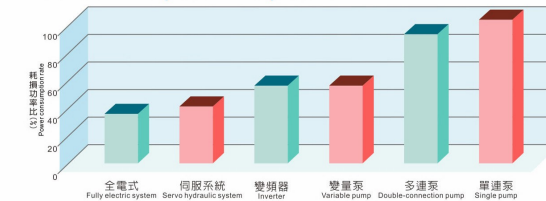
重現性為 0.2%

Repeat-ability : 0.2%



動力系統功耗比較

Power consumption comparison



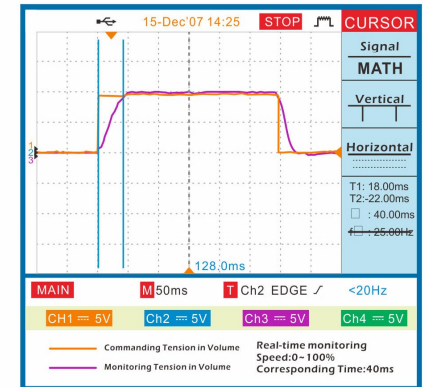
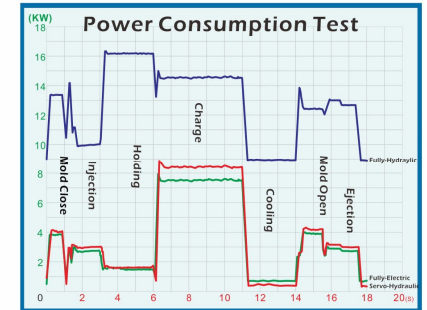
多項專利 Patented

2008/02/21 新型第M327493號 射出成型機射料管之溫度控制模組

2018/02/21 Modularized temperature control from injection unit"

2008/03/21 新型第M328970號 射出成型機之油電動力控制系統

2008/03/21 Controller system for servo-hydraulic"



液壓系統 / Hydraulic System

優化的規劃設計 Superior scheme & design.



邏輯迴路 / Logistic loop.

220N以上機種，全系列使用邏輯迴路，並採用日本油研(Yuken)方向閥，壽命長、穩定性高
With logistic loop combines YUKEN (Japan) directional valves, for tonnage above 220ton.



日本NOK油封

NOK (Japan) seals.
採用日本NOK油封壽命長
Superior seals for excellent performance.



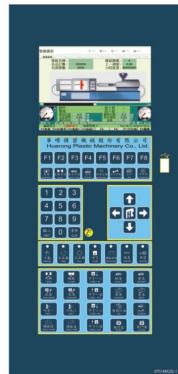
高壓軟管1"以上
採用瑞典製 HydraulPow
HydrauPow (Sweden)
high-pressure hoses, for up to 1".



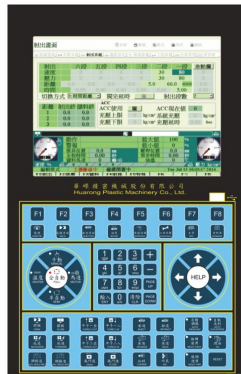
高壓軟管1"以下
採用日本製YOKOHAMA
YOKOHAMA (Japan)
high-pressure hoses, for up to 1".

臥、立式機-電控系統 / Controller

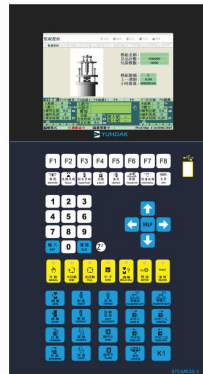
人機介面方便操作，設備可靠穩定 Human-friendly interface.



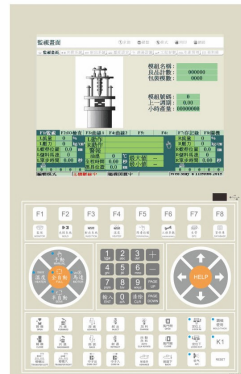
BL-870



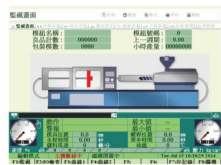
BL-920



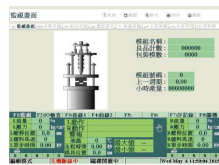
BL870



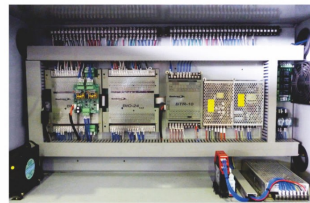
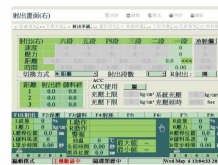
BL-920



臥式控制器畫面 Controller Display for Horizontal Machine



立式控制器畫面 Controller Display for Vertical Machine



DC電氣箱 DC Electric Box



AC電氣箱 AC Electric Box

AC、DC箱分離 / Individualized AC & DC Box.

AC、DC箱分離，防止干擾系統更穩定；SSR+半導體快速保險絲，迴路保護更快速，夾模開關電位尺採用GEFRAN義大利進口電位計控制精確，採獨立接地端子，防護更安全、維護更方便。

Separated electrical (AC/DC) box for interference-free, with independent grounding terminal, circuit protection by SSR (solid state relay) with semiconductor high-speed fuses.

專利斜板電位尺

Bevel-type Potentiometer

斜板光學尺，減低光學尺的故障，延長使用期限

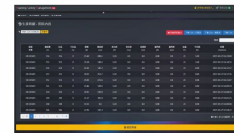
GEFRAN (Italy) Bevel-type potentiometer for clamping stroke.

射出廠管理平台/ Smart Factory Management

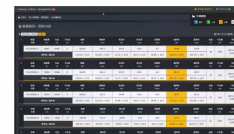
生產環境掌控 工廠智慧管理 Production Environment Control & Factory IT Management



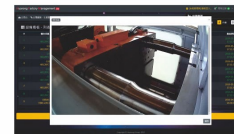
全程生產管理掌握
Fully production process control.



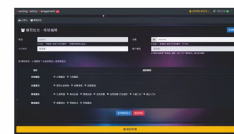
生產數據導入
Production data input.



微量異常智檢通知
Micro- abnormal self-check and notification.



遠距視訊異常排除
Remote on-line checking and trouble-shooting.



權限管控安全無虞
Authorization management to ensure production safety.



HFM
迎向工業4.0
Industry 4.0

Production Environment Control & Factory IT Management

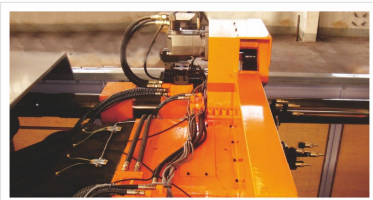
Experience Now! hfm.huarong.com.tw



HDC**HDC 雙射射出成型機**
HDC CO-Injection Molding Machine**專利轉盤設計****Patented Turntable Design.**

專利轉盤在模具交換或開關模時，模具可精準定位，使模具與車壁貼緊度更為良好。專利設計防止模具下墜。 Patented rotary platen, with accurate positioning for tilt-free.

專利轉盤轉動順暢，轉盤機械、電器、油壓三重定位確認，模具受到高度保護，正反轉定位百分百。 Accurate positioning with triple control by mechanical, electrical, and hydraulic for perfect reciprocation.

**轉盤採外齒式設計****轉動與定位快速準確**

External gear drive, rapid on rotation & accurate positioning.

**伺服轉盤定位系統(選配裝置)****Servo-drive Rotation (Optional)**

與傳統油壓轉盤相比，啟動時間短，運動過程平穩，達定位點後直驅煞車，無速度緩衝問題。每次轉動到位精準。 Accelerated movement with accurate positioning & direct-break complete the rapid rotation.

**T型射出機(標準機選配改雙射)****T-type injection molding (Optional)**

您目前已採購華曜標準機，您可選配增加T型射座使單射變雙射。 Alternative (optional) injection unit to convert a standard (mono-injection) machine into a T-type co-injection system.

三射射座系統(選配裝置)**3rd injection unit (Optional)**

可搭配第三射座進行三色射出。 Join to complete a triplex molding



我們可依照您模具需求設計多射系統
Customized injection available for mold designs.

高速精密、穩定度高

High Precise and Stable

IML**IML 模內貼標射出成型機**
IML In-mold labeling Injection Molding Machine**高效率、高良率 / Performance & Efficiency**

整體結構、控制精度與穩定度的提升，生產良率可高達98%以上，並可縮短生產週期。 Advanced structure, improved stability, and accurate control, with yield rate above 98% and shorten cycle.

技術領先 Leading Technology

產品為16L大型油漆桶，是目前業界貼標最大的產品。
16-liter IML pail, the largest size in application at present.

**機台與供標系統機構一體化結合 / Integrated system**

業界唯一，機台與供標系統一體化設計，增加整體機構強度，避免長時間使用下兩設備分離或標貼準確度變差等問題。 Unified system with designs from preprint label to system integration and matchup, maximized the accuracy & efficiency.

伺服側取機械手臂 / Side-load servo robotic system

專利「新型模內貼標籤手臂兩軸平移裝置」，生產快速精準，並是目前業界最大16公升平移機械手臂裝置，可提供大型貼標塑件生產。 Balanced horizontal shifting for duo-axis against twin-arm robot in IML solution. Ultimate accuracy with capacity to 16liter application.

取標供標機構 / Labeling automation

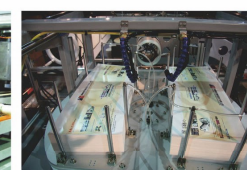
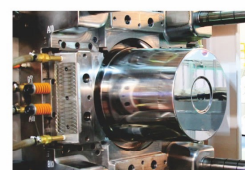
精確吸取貼標，並可精確將貼標置於模仁上 Precise positioning against robotic automation performing accurate label transfer.

IML專用模具 / IML mold

可因應客戶需求設計，模內貼專用模具，我們並擁有「新型第M284529號 長桶型模具離模構造」專利。 Customized design with labeling automation, and against patented solution (#M284529), large stroke de-molding design.

專利貼標圓盤供紙機構 / Patented rotary label supply

專利自動送紙圓盤機構，供紙不中斷 Ensuring label supply needless system stop.

**多項專利 Patented**

新型第M346579號 模內貼標籤服貼裝置 IML label anchoring device
新型第M284529號 長桶型模具離模構造 Minimized de-molding structure
新型第M351844號 模內貼標籤供紙結構 IML label feeding system
新型第M293838號 大型單元物品模仁貼標籤結構 IML solution for large parts
新型第M352509號 模內貼標籤手臂兩軸平移裝置 IML label parallel feeding tools system



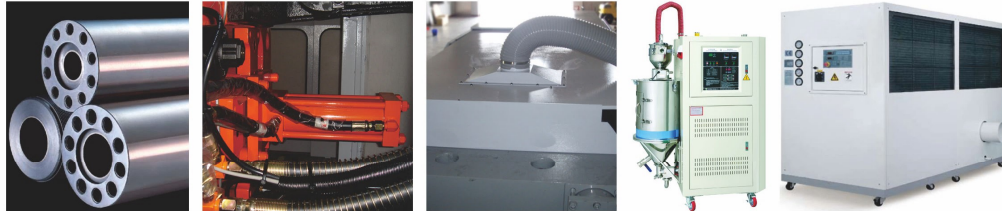
專業模內貼標自動化設備

Professional In-Mold Labeling System

PET

PET 瓶胚射出成型機

PET Preform Injection Molding Machine



PET專用螺桿料管組 / Injection screw & barrel

採用低剪切、高融化、雙螺紋PET專用螺桿，效率高品質佳
Lower shearing, higher plasticization, and with double-waved for ultimate performance.

托模裝置 / Ejector

托模力加大，方便快速頂出成品
Enlarged force performing ejection efficiency.

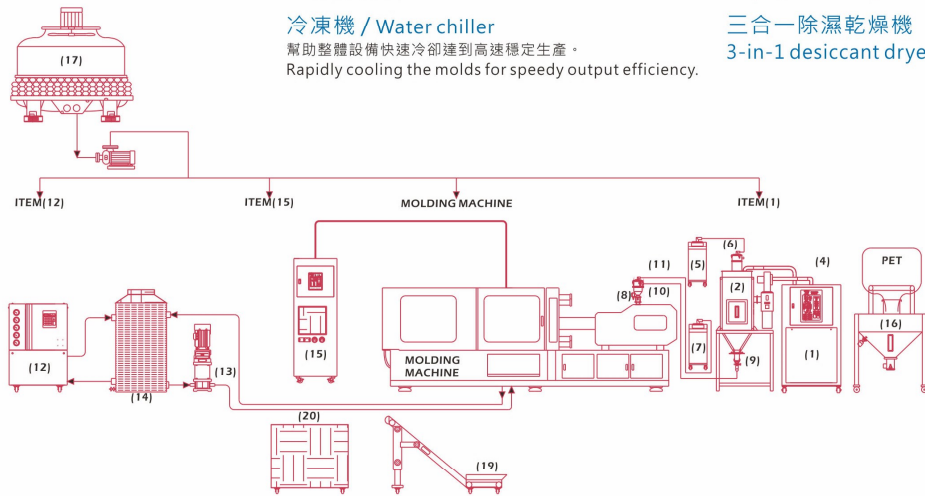
上滑板冷氣孔搭配除露機 / Sliding roof

可去除模具露水 / To combine with air conditioner for dehumidifying the molding chamber.

冷凍機 / Water chiller

幫助整體設備快速冷卻達到高速穩定生產。
Rapidly cooling the molds for speedy output efficiency.

三合一除濕乾燥機 3-in-1 desiccant dryer



PET 瓶胚專用機，精度高、速度快
PET bottle preform molding, rapid & accurate



高精密度、高速生產

Better accuracy, High speed production

HRU

HRU 快速內曲式射出成型機

HRU Injection Molding Machine

高速開關機構速度比提升15% / 15% speed increased during High-Speed mold close and open.



穩定性高、高效率、高速生產

Stabilize, Efficient, High speed production

PVC

PVC 硬質射出成型機

PVC Rigid Injection Molding Machine

加寬板金設計 / Width extended shield.

配合多中子運作空間 / More space to accommodate tool piece of core-puller cylinder.

PVC/CPC 專用螺桿 / PVC/CPC screw.

PVC/CPC專用多段壓縮螺桿料管組 / Multi-section compression design.

防腐蝕複合金屬處理 / Bi-metalized applied for anti-corrosion.

採用低剪切、高融化、雙螺紋PVC專用螺桿，效率高品質佳
Lower shearing, higher plasticization, and with double-waved for ultimate performance.

PVC 硬質產品專用機，穩定效率高
PVC rigid application, stable & efficient



穩定性高、高效率

Stabilize, Efficient

HMC**HMC 熱固性濕式射出成型機****HMC-Bulk Moulding Compound Injection Molding Machine****自動填料裝置 / Auto loading device.**

填料快速節省人力成本 Efficient loading work with less manual job required.

車壁隔熱板 / Isolation boards.

防止模具高溫熱傳導至車壁 Isolate the heat transferring to the platens.

ACC蓄壓裝置(選配) / Accumulator (Optional)

ACC射出裝置提高射出率，使成品光亮固化快速

Accumulator-assisted (optional) for lifted injection rate, product surface & rapid forming.

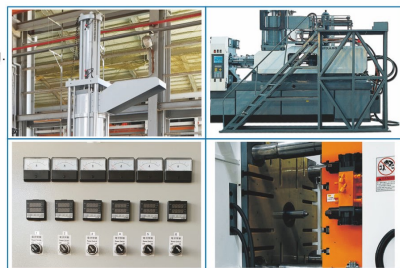
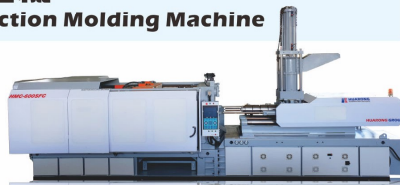
填料平台樓梯 / Convenient loading ladder platform.**特殊耐腐蝕抗磨耗螺桿**

Additional anit-corrosion, wearing proof screw

提高螺桿壽命 Advanced performance with most durability.

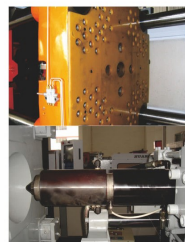
各段獨立模具加熱控制器

Each heating section regulated by individual temperature controller.



適合抗腐蝕、產品生產

Corrosion proof application

BL**BL 熱固性電木射出成型機****BL Thermosetting Bakelite Injection Molding Machine****日常生活耐熱、耐腐蝕用品、電訊、電器絕緣零件**

Heat-resistant & Anti-Corrosive household items and Insulative Electronic and Electric items.

車壁隔熱板 / Isolation boards.

防止模具高溫熱傳導至車壁 Isolate the heat transferring to the platens.

電木專用料管螺桿組 / Thermosetting screw & barrel.

耐熱、抗腐蝕專用料管，螺桿組 Heat-resisted with wearing/corrosion proof.

料管採用模溫控制 / Temperature controller for barrel heating.

模具模溫獨立加熱控制 Individual temperature controllers regulating injection barrel & tools.

**耐高溫、絕緣產品製造專用機種**

High temperature resistant, insulation

耐高溫、絕緣產品製造

High Temperature Resistant, Insulation

Q**Q 薄件高速射出成型機****Q Accumulator High-Speed Injection Molding Machine****大柱加大，模板加厚 (將應力分析圖與3D立體結構圖與本圖合成一起)**

Reinforce mechanism with stress analysis against 3D structure projection.

提升整體機械耐用度，整體機械結構加強20%

20% mechanical strength improved for durability.

高速射出機構 / High-speed injection structure.

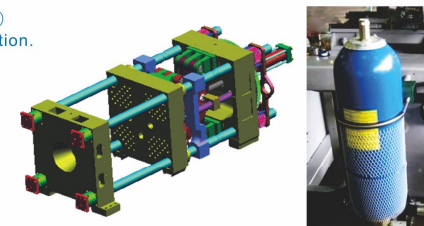
搭配高速射出機構，是堅固耐用的高速機種

Designed to accommodate accumulator assisted high-speed injection.

ACC蓄壓器 / Accumulator

伺服閥配合ACC蓄壓器，提高速度，反應時間快

Combine with servo valve maximized the performance of injection speed & system efficiency.

**高速薄件生產機種，高速精準、塑化能力強**

Thin-walled/high-speed molding application.



高速精準、塑化能力強

High speed with accuracy, High plasticizing

M**For application of Medical Parts****M 醫療伺服射出成型機****M Servo Hydraulic Injection Molding Machine****結合全電式射出機的優點**

Adapted features from All-Electric machine

高應答、高重現性、靜音及省能源

Rapid Respond, Excellent Reproducibility, Quiet, and Energy Saving.

上滑板蓋

Roof shield

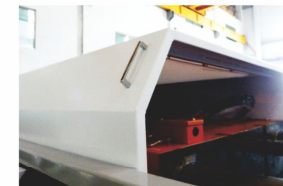
於設備上方加裝上滑板蓋防止污染

With slide shield on top of molding chamber ensuring contamination free.

曲手打黃油優點

Advantage of grease lubrication

- 每次潤滑的油量固定，每個曲手潤滑點可獲同樣的潤滑油量。
- 降低潤滑油對產品的污染。
- 採用黃油嘴加入油料之方式，降低油料之異物混入。
- 附壓力錶裝置，可查知壓力是否正常。
- Fixed proportion & volume of lubricant to every spot.
- Less contamination from lubricant.
- Grease nozzle for contamination free.
- Pressure gauge monitoring the performance.



潔淨無污染、高精度、省能源

Clean, non-polluting, High Precision, Power Saving

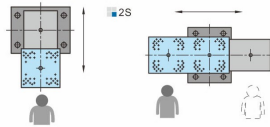
YH

YH 系列 / YH Series

YH-V 1S/2S 立式開模立式射出系列

YH-V 1S/2S Vertical Clamping Vertical Injection Series

- 1S單滑模：在開模後下模自動滑移到操作者正前方，更便於鑲嵌件成型作業。
- 2S雙滑模(交替式雙滑模)：一模在注塑成型，一模在外做取件與放鑲嵌件的工作，生產效能更高。
- Single sliding pushes the lower mold out for easy loading/unloading.
- Double sliding use two lower mold, machine molding the parts while the operator is loading the other mold, to increase productivity.



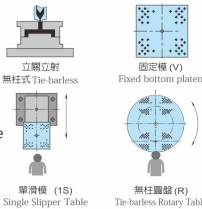
YL

YL 系列 / YL Series

無柱開模立式射出系列

Vertical Clamping Vertical Injection Tie-barless Series

- 三面空間的開放，使鑲嵌件及成品取放，對特殊長條狀或帶有導線的產品，更加容易作業，更可配合自動連線規劃。
- 操作面的高度，符合人體工學，且整體機器高度低，讓作業環境有 更多額外利用空間。
- Vertical clamping, with out machine column design, the mechanical constitutive property is strong, Injection powerfully, suit large-scale embed-ment to take shape the processing.
- The height of operating surface is ergonomic, and the height of the machine is low. The operating environment can have more additional space to use.



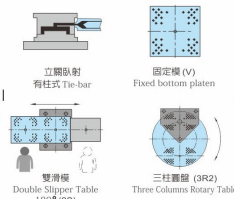
YT

YT 系列 / YT Series

立式開模臥式射出四柱系列

Vertical Clamping Horizontal Injection Four Columns Series

- 固定模(V)及雙滑模(2S)，採立式四柱直壓鎖模，臥式(水平)射出。正方柱間距機械結構性強固，可適更大鎖模力達 500 ~ 800TON。
- Fixed mold (V) and the two sliding mold (2S) adopts four-column vertical pressure clamping for horizontal injection. Strong mechanical structure allows greater endurance for clamping force up to 500 ~ 800TON.



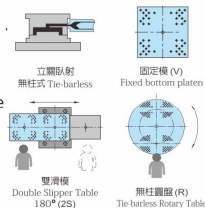
YC

YC 系列 / YC Series

無柱立式開模臥式射出系列

Vertical Clamping Horizontal Injection Tie-barless Series

- 立式開模，無機柱的機體方式，配合臥式射出，機械結構性強，射出有力，適合較大型嵌合件成型加工。
- Vertical clamping, with out machine column design, the mechanical constitutive property is strong, Injection powerfully, suit large-scale embed-ment to take shape the processing.



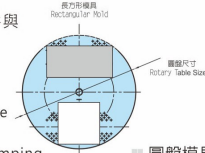
YR

YR 系列 / YR Series

多重嵌入射出機圓盤系列

Multiple Embedded Rotary Injection Molding Machine Series

- 圓盤在同一水平面做180°來回交替旋轉，可讓操作者在固定操作面做取件與放嵌件，工作方便生產效率高。
- 可加裝自動嵌入與取出等自動化裝置，達成全機全自動化的運轉。
- 標準圓盤為2站，有特殊需求可另選32站或4站，達到更方便操作。
- Four-column/vertical clamping, vertical injection. Rectangular shape between tie bars for easy insert.
- Double action clamping cylinder for fast clamping, slow speed high pressure clamping.
- Double sliding use two lower mold, machine molding the parts while the operator is loading the other mold, to increase productivity.



圓盤模具
Rotary Table Mold



YD

YD 系列 / YD Series

立式開模立式射出四柱雙射圓盤系列

Vertical Clamping Vertical Injection Two Colors Four Columns Series

標準雙色

採四柱立式鎖模，並在上模板有2個獨立的立式射出單元(獨立的射出液壓油路)外加圓盤所組合的雙色射出機。

Standard double injection

Vertical 4-columns direct-pressure clamping. In the upper mold plate, two separate vertical injection units is installed (separate injection hydraulic oil route) with the addition of round disc for this double injection machine.



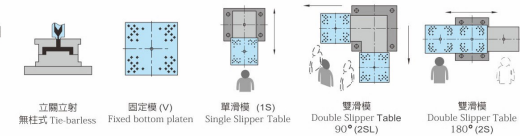
YQ

YQ 系列 / YQ Series

高速精密立式射出成型機

High Speed Precision Vertical Injection Molding Machine

- 高規電腦控制系統，配合高精密的射出壓力與高應答的射出速度，對高精密的嵌入射出成型品，其品質更加穩定。
- High standard computer control system with high precision injection pressure and high response injection speed. The quality is more stable for high-precision embedded injection molding products.



YV

YV 系列 / YV Series

線材專用機

Wire / Plug Machine

- Y系列射出機立式鎖模/立式注射，適用一般電器插頭，電子零件等小型嵌件成型，是PVC塑料專用機種。
- 二(三段)溫度控制/射出速度/背壓等無段調整，更適合精密塑膠之零件成型。
- Vertical clamping / vertical injection, suitable for general electrical plugs, electronic components and other small insert molding.
- Two (three stages) temperature control / injection speed / non-stage adjustment of back pressure, etc., more suitable for parts molding of precision plastic.



自動化系統 / Automation Systems

全自動化生產、精準、確實 Fully automated production, precision, indeed

需求分析

Requirement Analysis

總體設計

Overall Design

詳細設計

Detailed Design

開發程式設計

Developed Programming

測試分析與系統整合

Testing Analysis and System Integration

現場支持

Onsite Support



以最優秀的性能，提昇生產效率，實現最高精準度

Through the best performance to improve productivity, and achieve the highest accuracy.

針對臥式機下探距離深

Deep downward distance design to meet with horizontal injection.

自動化萬向機械手，穩定性高、靈活性強、操作簡單，全電腦化控制提高生產效率，縮短工作週期以及提高產能，並能在最小耗能的情況下做最大化生產。

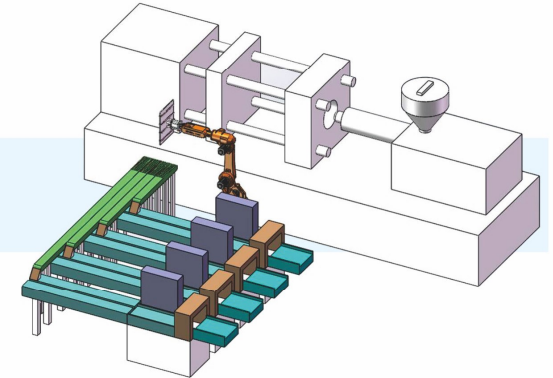
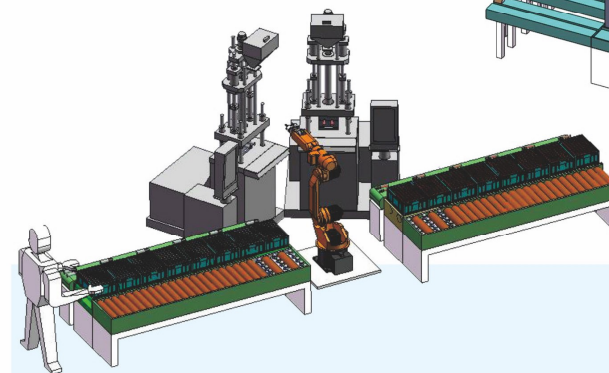
Automation Universal (Multidirectional) Robot, high stability, flexibility, simple operation, the entire computer control to improve production efficiency, shorten cycle times and increase productivity, and can do to maximize production with minimal energy consumption.



完美結合

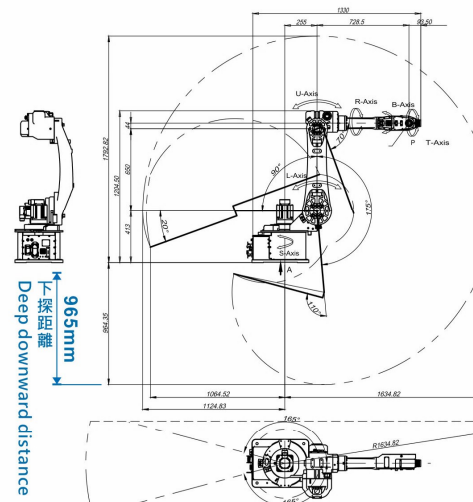
Perfect Combination

空間 / SPACE



製程 / PROCESS

動作範圍 Workable Space



詳細規格 Specification

HRD6-1400

結構形式 Type	關節式機器人 Industrial Robot			
自由度 DOF	6			
有效負載 Effective Range	10KG			
最大活動半徑 Motion Radius	1465mm			
重複定位精度 Repeated Positioning Accuracy	±0.08mm			
運動角度 Motion Range	S Axis	±165°	R Axis	±145°
	L Axis	-90° · +175°	B Axis	±135°
	U Axis	-110° · +70°	T Axis	±360°
最大運動速度 Top Velocity	S Axis	222°/s	R Axis	205°/s
	L Axis	148°/s	B Axis	314°/s
	U Axis	202°/s	T Axis	360°/s
容許重量(GD2/4) Allowed Top Torque(GD2/4)	R Axis	38KG*m	B Axis	9KG*m
	T Axis	7KG*m		
環境條件 Condition	溫度 Temperature	0 ~ 45°C		
	濕度 Humidity	20 ~ 80%RH (不結露 / No dew)		
	震動 Vibration	4.9m/s ² 以下		
本體重量 Weight	177KG	電源要求 Electricity	4.2KVA	