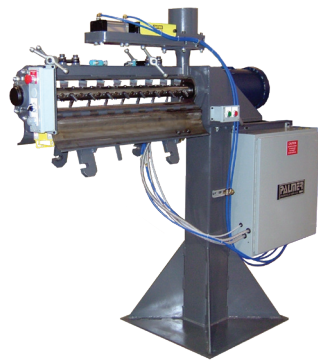




NO BAKE FOUNDRY SYSTEMS & MACHINERY

PALMER乃世界知名之自硬性砂模生產設備製造商(USA)。生產設備項目包含: 高速連續式砂混鍊機、砂模震實檯、砂心模射出成型機、造模系統、砂模夾持設備、幫浦系統、砂回收系統、砂質調質設備、氣送式輸砂設備及砂加熱器等。PALMER提供您完整之鑄造廠整廠需求設計及規劃。

Palmer Manufacturing & Supply is known globally for the design and production of heavy-duty No-Bake foundry equipment including: high speed continuous mixers, molding systems, core room equipment, sand reclamation, mold handlers, pumping systems, sand conditioning, compaction tables, heaters, and complete foundry systems and engineering services.



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連續式砂混鍊機頭 CONTINUOUS SAND MIXERS

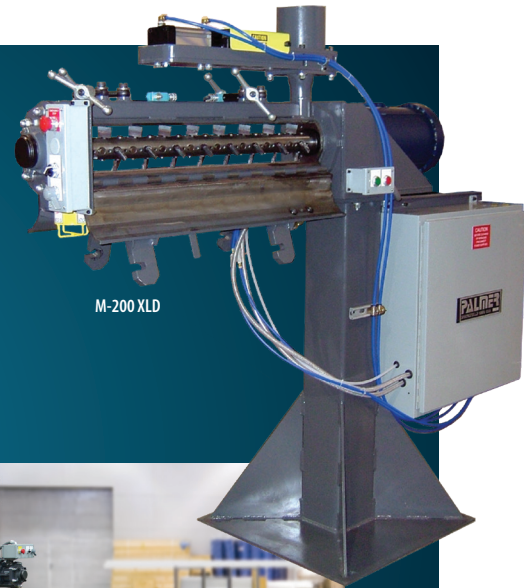
M-系列XLD高速連續式砂混鍊機頭

Palmer連續式砂混鍊機頭具有高耐用性以符合目前鑄造廠之造砂使用。使用碳化鎢攪拌刀以提高使用壽命。直驅式馬達以降低養護成本。Palmer M-系列XLD機台為高耐用性、高可靠性及擁有目前市場上最佳表現性之混鍊機頭。特性包含雙開式混鍊艙門，以方便清砂及保養工作、高扭力直驅式馬達以精準控制樹脂流量、氣送式藥劑輸送裝置、高速運轉特性。出砂量可達15-5000磅/分鐘(400公斤/時~135噸/時)。具有網路連線功能之整合式PLC及HMI人機介面系統。

M-Series XLD High Speed Continuous Mixers

Considered the Industry Standard in sand mixing, Palmer's line of high speed continuous mixers are built tough. Tungsten carbide tipped mixing blades provide long life, while the direct drive system ensures low maintenance. Standard features: dual mixing chamber doors (both sides for easy cleaning and maintenance), high torque pump drive motors for precise resin metering, air assisted chemical injection (a 1980 Palmer innovation), and high speed operation makes the M-Series XLD the most rugged, reliable and best performing continuous mixer on the market. Outputs 15 – 5,000 lbs per minute. Standard control systems up to complete integrated Ethernet capable PLC/HMI systems.

Min-Max Output	Lb/min	MTPH
M-50 XLD	15 - 60 lb/min	.4 - 1.6 MTPH
M-100 XLD	50 - 150 lb/min	1.4 - 4 MTPH
M-200 XLD	70 - 250 lb/min	1.9 - 7 MTPH
M-300 XLD	150 - 600 lb/min	4 - 16 MTPH
M-500 XLD	300 - 1100 lb/min	11 - 30 MTPH
M-1000 XLD	400 - 1700 lb/min	21 - 51 MTPH
M-2000 XLD	1000 - 3000 lb/min	27 - 81 MTPH
M-3000 XLD	2000 - 5000 lb/min	55 - 135 MTPH



M-200 XLD



M-50 XLD

M-2000 XLD機型 標準功能

- 高耐用性結構設計，長年使用僅需最小力度之維修保養需求。
- 簡潔設計以達簡易操作及維護保養。
- 數個機頭艙室開啟門設計以達簡易清潔保養之需求。
- 碳化鎢攪拌刀以延長使用壽命。
- 精準型數位A.C.或D.C.式直驅式樹脂幫浦。
- 100%組裝完成以達到簡易、快速安裝需求。
- 各式客制化需求，以符合任何應用需求。
- 各式備品可由Palmer供貨，亦可由台灣當地供應商供貨。
- 一年保固。 • 出砂量: 1000-3000磅/分 (27-81噸/時)。

M-2000 XLD Standard Features

- Rugged - heavy-duty construction designed for years of use and abuse with minimal maintenance.
- Simple design - easy to operate/maintain.
- Multiple doors for complete access to both sides of mixing chamber.
- Tungsten-carbide tipped mixing blades for increased life. Twice the thickness of others.
- Precision chemical pumps.
- Supplied 100% complete and fully assembled for easy, quick installation.
- Many options available - mixer can be custom fitted to match the application's exact requirements.
- Replacement parts available from Palmer or from a high quality industrial supply house in your area. Off-the-shelf components are used wherever possible so that parts availability is good and affordable.
- One year warranty. • Capacity: 1000-3000 lb/min.



RFID Tag Read and Write Station

砂模破碎檯/砂模磨碎機

PALMER砂模破碎檯為符合人體工學低高度設計，故無需挖設地坑，可輕易及安全地取出鑄件。SDAM可有效率地把砂模震碎至砂粒尺寸。因無地坑設計，故清砂方便，大面積易進入之清潔門設計和易拆卸篩網都大大減少人工清潔之負擔。共計有五種標準尺寸，高達20噸/時處理量，破碎檯可負荷25,000磅(11噸)之砂量。Palmer砂模破碎系統為重負載設計，適用於各式樹脂砂系統砂，整體系統包含SDAM、提升機、震動篩網、緩衝漏斗、高效能式砂分類器。其他選配裝置包含轉盤式磁力分離器、冷卻管、氣送輸砂設備等。除了整套設備外，亦可各別選購單項設備以優化您的回收砂設備品質。

Shake-Out Deck /Attrition Mill (SDAM)

Palmer's Shake-Out Deck / Attrition Mill is a low level shake-out deck with integral attrition mill. This deck is low level and requires no pit, making loading and casting removal an ergonomically correct and safer operation. The SDAM reduces molds and lumps to grain size. Labor saving features include no pit for less clean-up, large easy clean-out doors, and accessible screens. There are 5 sizes available with throughputs up to 22 TPH (20 MTPH) and deck loads to 25,000 lbs, to fit any budget and performance level. Our heavy-duty systems are completely integrated for use with all chemically bonded sands. System includes SDAM, transfer elevator, vibratory screener, surge hopper, and high efficiency classifier. Options include: rotary magnetic separator, cooling tubes, pneumatic transporters and more. Palmer also offers individual shakeout decks, attrition mills, sand handling/classification equipment, and pneumatic transporter systems to fully supply your sand system.



CM系列自硬性砂心射出成型機

簡易操作及高耐用度設計，提供鑄造廠經濟實惠地自硬性或是冷心盒式砂心射出成型方式。可以自由調整所射出之砂量，每次射出砂量最高可達600磅(270公斤)。以自硬性砂心模之應用為例，無需任何額外清潔裝置，可大幅度減少鑄造廠造砂心模之成本。砂心射出成型機上方之攪拌機頭除了出砂給予砂心射出成型機外，亦可旋轉90度直接供砂給予較大之砂心模使用。可以在有限的小空間中生產小型及大型砂心模。

共計有五種規格：

- CM-25 單次30磅(13公斤)射出量
- CM-50 單次85磅(39公斤)射出量
- CM-100 單次120磅(54公斤)射出量
- CM-300 單次350磅(159公斤)射出量
- CM-500 單次600磅(272公斤)射出量



No-Bake Core Blowers – The CM-Series

Designed with ultimate simplicity and durability in mind, the Palmer Coremaker provides foundries with an economical means for the blowing of no-bake and cold box cores. With capacities up to 600 lbs per blow, this versatile machine can be used by low volume jobbing and high volume shops economically and efficiently. With no need for scrubbers and other expensive peripheral equipment on the no-bake version, the Palmer Coremaker is a cost effective solution for virtually any foundry. This is not just a core-blower— as an added bonus, this mixer rotates 90° to allow mixed sand to discharge outboard of the coremaker footprint. This allows for molds and very large cores to be produced in a small production area.

Available in five sizes:

- CM-25 up to 30 lbs (13 kg) per blow
- CM-50 up to 58 lbs (26 kg) per blow
- CM-100 up to 108 lbs (48 kg) per blow
- CM-300 up to 350 lbs (159 kg) per blow
- CM-500 up to 600 lbs (272 kg) per blow



關於Palmer樹脂幫浦系統

Palmer幫浦系統為自動校正設計，可以減少機台老舊、磨耗或是不良設計所造成之出藥量不精準、藥劑回流、重新校正、零件更換等造成之成本損失。Palmer幫浦升級系統以高端、完全自動化之流量控制系統優化樹脂幫浦出藥量，有效地取代原舊有幫浦之不良工作效能。

About Palmer Resin Pumping Systems

Palmer Pumping Systems are completely self contained units designed to eliminate the problems associated with old, worn, poorly designed systems that cause such problems as inaccurate delivery, inconsistent delivery, resin bleed back, the need for constant re-calibration, and high replacement part cost. Palmer systems are particularly helpful when used to replace pumping systems designed around high RPM, low displacement pumps. From our basic RP packages, to high-end, fully-automated mass flow control packages, Palmer has the equipment to meet your exact needs.



RP-幫浦升級系統

RP幫浦升級系統可以有效提昇任何工作不良之連續式或是批次式混鍊機頭。NEMA牌之電器箱內包含幫浦、馬達、氣球閥、數位DC或AC/VFD速度控制，以提供精確及一致性之出藥量。RP系統可以應用在任何樹脂系統中，同時也可套用在各種混鍊機頭尺寸。

Standard Systems Available: RP-Retrofit Pumping

Palmer RP-Retrofit Pumping Systems provides a "heart transplant" for any ailing continuous or batch sand mixer. The RP is fully contained in a NEMA enclosure and is complete with pumps, motors, air actuated ball valves, and digital DC or AC/VFD speed controls – everything needed for accurate, consistent chemical delivery. The RP can be configured for any resin system, and can be built for any size mixer.



Mass Flow幫浦升級系統

Mass Flow幫浦升級系統是採用業界最高端的Straight Tube Coriolis Mass Flow Meter(直管式流量器)。此直管式設計是可以容忍鑄造廠之惡劣操作環境。此流量器可自動隨樹脂黏稠度進行調整流量以達到精準出藥量之需求。可搭配彩色之HMI人機操作介面，亦可選配網路連線功能以達到更有效之操作使用。

Mass Flow Pumping Systems

The Palmer MF System features Straight Tube Coriolis Mass Flow Meter– the most reliable meter in the industry. The straight tube design operates undisturbed in hostile, vibration prone applications and has proven itself well suited for operation in a foundry environment. These meters automatically adjust for material viscosity changes and minor line restrictions. System can include color HMI's, Ethernet capability and have the highest degree of accuracy available on the market today.



攪拌刀頭

Palmer長效型攪拌刀具是適用於各式品牌之連續式混鍊機頭或是批次式攪拌槽。刀具是由預鑄或是脫蠟鑄造之合金鋼材質所製，再鍍上一層厚及高品質的碳化鎢材質。Palmer攪拌刀片較其他品牌更佳耐用。

Replacement Mixer Blades

Palmer's long life replacement blades are ideal for any brand of continuous or batch mixer. Fabricated or investment cast from alloy steels and employing extra thick high quality tungsten carbide tips, these blades easily outlast other blades. Common mixer brands and sizes normally ship same day from stock. Custom and special blades available for all high speed continuous mixers. Palmer makes blades for IMF, Sinto, Castec, and Kloster mixers.



翻模設備-C型式與滾桶式

RD系列之翻模設備之載重範圍由500-20,000磅(226公斤~9000公斤)。可應用在自動造模線或是一般手動造模線。具有開放式之C型式與滾桶式設計構造。高扭力液壓翻轉設計，以確保簡易並有效及平穩翻轉模具。提供各式客制化設計。

ROLLOVER DRAW MACHINES – C-Frame & Barrel

The RD-Series ranges in size from 500 – 20,000 lbs. With models from manual to fully-automatic, the RD can be made to your exact specifications. Available in open face, C-Frame and barrel configurations. High torque hydraulic rotation ensures easy and efficient rolling of even the heaviest jobs. Simple rugged alignment design for accurate and repeatable parallelism of draw. Custom designs available.



C-Frame
Supporting a 1969
Oldsmobile Regency 98 w/Rocket 454

砂模夾取裝置

PMH砂模夾取裝置滿足對於夾持含鐵斗模具或是砂模模具之需求。具一般剪刀式(固定尺寸)或是高負載橫樑式(客制化規格)。配有安全止滑墊以避免模具脫落。提供電子式或是油壓式作動型號供選擇。

Mold Handlers

The PMH line of mold handlers offers our customers a complete set of options when it comes to handling both flasked and flaskless molds. From our basic scissor-style to our full line of high capacity gantry-style units, there is a size and configuration for all requirements. No-slip urethane gripper pads available for a safe secure grip on thin-wall molds. Available in hydraulic and electric models.



PMH-2000 / HPR Scissors



PMH-H-12000 Gantry

砂模震實檯

砂模重量由5磅(2.2公斤)之砂心模至30,000磅(13.6噸)砂模皆可以震實檯震實砂模。震實檯具有垂直式或是旋轉式振動器。Palmer之控制系統可以產生高品質砂模緊實，甚至可以使藥劑使用量更少。各式客制化規格提供任何之需求。(可搭配暨有之輸送帶設施使用)。

Compaction Tables

From 5 lb cores to 30,000 lb molds, Palmer has a compaction table to fit your exact requirements. Featuring tables with both vertical and rotary vibrators, Palmer has a table and control system to meet the needs of high quality, well compacted cores and molds with lower binder levels and increased consistency. Custom sizes are our specialty. (Available to fit existing conveyor, with gravity conveyor, power conveyor, or flat topped actuation by foot pedal, push button RFID or integration with the mixer.)

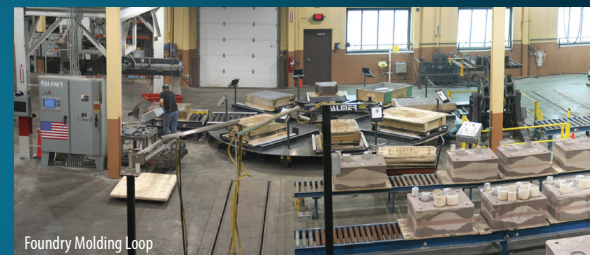


自硬性造模線系統

Palmer經驗豐富工程師提供各式砂模、砂心模生產製造之客制化設計，用以滿足鑄造廠目前及未來之需求。Palmer致力於發展更節省人力、能源成本之系統，同時亦滿足更具經濟效益之生產模式。

No-Bake Molding Systems

Our experienced foundry engineers provide custom designed mold and core production systems to meet your current and future requirements. We take pride in the labor saving, energy saving, and production efficient systems that Palmer has designed and installed.



Foundry Molding Loop



palmermfg.com



總代理：皇廣鑄造發展股份有限公司
連絡人：黃紹彰 (sc.huang@temc.com.tw)

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