



Tire Series

Tire Curing Press and
Retreading Machine

新胎硫化機與翻新胎設備系列



We are proud to say Tung Yu is
your first choice of
hydraulic forming machinery.

東毓深耕成型技術 持續擴展應用領域



Tung Yu - Tailor-Made Solutions Provider

Tung Yu, with ISO 9001 approved and CE certified, is highly experienced in the field of hydraulic machinery since 1983. Tung Yu manufactures a wide assortment of products, from 5 tons hydraulic press to 13,000 tons conveyor belt production line and we offer a comprehensive One-Stop Shopping service for customers. Our product line includes: Compression Molding Machines, Rubber and Silicon Injection Molding Machines, Conveyor Belt Vulcanizing Machines, Tire Molding Machines, Retreading and Solid Tire Molding Machines.

東毓油壓機械股份有限公司，自1983創立以來，秉持著董事長楊楨彬先生之「穩健踏實、永續經營」經營理念，以「誠信」立足市場。『Tung Yu』品牌行銷全球六十餘國。承製能力範圍廣闊，鎖模力由5噸小型油壓沖床至13,000噸的輸送帶硫化機，均能承製。主要機械產品線：熱壓成型機、橡矽膠射出成型機、輸送帶硫化機、輪胎硫化機、翻新胎硫化機以及各式油壓機械，產品應用領域跨足各大產業。未來發展以創新為目標，深耕「力量與熱量載具」之核心技術，成為成型技術的領先者，為客戶創造最大價值。



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■ Tire Series Machine Ranges Tire 系列機型

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TPS-175-2-PCD-UP

Hydraulic Tire Curing Press

輪胎硫化機

Mechanical features at a glance

- Equipped with servo motor for energy saving, product quality stabilization and operation efficiency.
- Accurate loader and unloader mechanism with bumper function for excellent alignment.
- Heating platen with special channel design for temperature uniform distribution to have best tire quality.
- Rear pneumatic inflator (option): Equipped at the rear side of main frame to operate in automation. After curing process the inflation tire will be cooling and forming to prevent body from deformation and make sure quality.
- 油壓單元可搭配伺服馬達，降低能源消耗，並穩定產品質量，提高工作效率。
- 夾胎機械手及自動卸胎定位精準，提升緩衝效果。
- 熱板採特殊迴路設計，提高均溫效果，可長時間保持溫度穩定，降低產品不良率。
- 後充式裝置(選配)：安裝於主機後方，實行自動控制和續化運行，輪胎硫化後在受氣體張力下進行冷卻及定型，避免胎體變形，提高產品良率。





Products 製造成品

- Light truck radial
- Passenger car radial
- Motorcycle radial
- 輕型卡車胎
- 轎車胎 (13" ~20")
- 摩托車輪胎

Technical Specifications 機器規格表

Machine Type	機型		TPS-175
Clamping Force	鎖模力	ton	80~175
Heating Platen	熱盤尺寸	mm	Ø1200
Daylight	最大開檔	mm	2427
Stroke	最大行程	mm	1800
Pulling Stroke	拔模行程	mm	650
No. of Mold	模穴數量	cav.	2
Raw Tire I.D.	生胎內徑	inch	13~20
Mold O.D.	模具外徑	mm	1020
Mold Height	模具高度	mm	250~550
Max. Working Pressure	使用壓力	kg/cm ²	210
Max. Steam Pressure	蒸汽壓力	kg/cm ²	15
Max. Inner Pressure	內壓壓力	kg/cm ²	25
Dimension	外觀尺寸	mm	L4800 X W3871 X H6553

TPS-150-2-PCD-UP

Hydraulic Tire Curing Press

輪胎硫化機

Mechanical features at a glance

- Main frame consists of steel plate and U type steel welding with high temperature treatment. After machining, release stress to improve machine life cycle.
- Return oil with filter and cooler to maintain stable hydraulic system.
- Excellent solid frame mechanism design with FEA approval to enhance body strength. Advantages:
 1. Quality: Better tire quality and precision with high productivity.
 2. Management: Lower maintenance cost.
 3. Environmental protection: Energy saving.
- 骨架、主架構處理，主要結構為鋼板、U型鋼焊接組裝後，均經高溫熱處理，再進行機械加工，消除內應力，大幅度提高產品效期，延長使用壽命。
- 內建回油過濾及散熱功能，維持穩定的液壓工作條件。
- 結構強化設計，有別於傳統工法，機型結構均採「有限元素分析」強化結構設計，有效提升：
 1. 品質：輪胎硫化之質量與精度，提高產能。
 2. 管理：減少維修費用，降低成本。
 3. 環保：降低能源消耗，節能減碳。

Products 製造成品

- BOM (Bag-O-Matic) bladders
- Industrial tires
- Agriculture tires
- Motorcycle tires
- B式定型硫化氣囊
- 工業用輪胎(8" ~12")
- 農用機輪胎
- 摩托車輪胎 (8" ~15")



TPS-100-4-PCD-UP

Hydraulic Tire Curing Press

輪胎硫化機

Products 製造成品

- Industrial tires
- Agriculture tires
- Motorcycle tires
- 工業用輪胎 (4" ~8")
- 農用機輪胎
- 摩托車輪胎 (8" ~18")



Technical Specifications 機器規格表

Machine Type	機型		TPS-100	TPS-148	TPS-150
Clamping Force	鎖模力	ton	100	148	150
Heating Platen	熱盤尺寸	mm	Ø810	Ø1150	Ø1070
Daylight	最大開檔	mm	100~1300	1800	250~1700
Stroke	最大行程	mm	1200	1660	1450
Pulling Stroke	拔模行程	mm	200	200	350
No. of Mold	模穴數量	cav.	4	2	2
Raw Tire I.D.	生胎內徑	inch	8~18	10~18	8~15
Mold O.D.	模具外徑	mm	750	950	950
Mold Height	模具高度	mm	150~350	150	250~420
Max. Working Pressure	使用壓力	kg/cm ²	210	210	210
Max. Steam Pressure	蒸汽壓力	kg/cm ²	10	10	16
Max. Inner Pressure	內壓壓力	kg/cm ²	23	25	25
Dimension	外觀尺寸	mm	L4528 X W3458 X H4434	L4095 X W3380 X H6081	L3260 X W2044 X H5686

TPS-600-4-PCD-3L

Solid Tire Vulcanizing Machine (Slab Side Type)

實心胎硫化成型機-旁板型

Mechanical features at a glance

- Four stations with three decks design to improve productivity.
- Equipped with demolding kit to improve automatic process and save labor cost.
- 四聯台三層開檔設計，提高生產效率。
- 搭配脫模機構，提升自動化流程，可節省人力成本。

Products 製造成品

- Solid tires
- 實心輪胎



Features 特寫說明

- Main press frame designed in slab side type with multi-daylight that allows several molds to be cured simultaneously, saves labor and timing cost.
- 機體採旁板型多層開檔機構，可同時加硫數副模具，節省人力與時間成本。

THP-1420-PC

Retread Tire Vulcanizing Machine (Slab Side Type)

高溫翻新胎硫化機-旁板型

Mechanical features at a glance

- Special for nylon cord retread tire with high temperature or second curing for tire with low temperature.
- With loading and unloading platform to save labor handling.
- Apply high temperature curing for better efficiency.
- 專用於高溫尼龍絲翻修輪胎硫化，或做低溫胎的二次硫化使用。
- 前方使用送料、取料架機構，可有效減少人力搬運。
- 高溫硫化製程，縮短每模硫化時間，提高生產效率。



Features 特寫說明

- Press frame designed in slab side type, attached side spacers to ensure mold safety.
- 主結構設計採用旁板型，並於兩側加輔助滑塊，提高上下模具合模同心度準確性，降低模具損耗。



Technical Specifications 機器規格表

Machine Type	機型		THP-1420-PC
Clamping Force	鎖模力	ton	130
Warm Water H.P.	溫水使用馬力	HP	7 ½
Hydraulic H.P.	油壓使用馬力	HP	7 ½
Warm Water Unit (6 sets)	溫水設備 (6台)	liters	1300
Max. Mold Applied	最大可用模	mm	1420
Hydraulic Pressure	油壓使用壓力	kg/cm ²	210
Tire Specification	翻修台規格	mm	825~1200
Mold Moving Method	送模方式		Manual 手動送模
Heating Method	加熱方式		Steam & Hot Water 蒸氣和熱水
Inner Bladder Specification	內囊規格	kg/cm ²	H20 / 6

THP Series-Other Available Model 其他規格

Machine Type	機型	Tire Specification (inch)	輪胎規格	Tire Range	輪胎類型
THP-800		6.5-13 / 14		Small	小型胎
THP-1020		7.5-15/16		Medium	中型胎
THP-1250		8.25/10.0-20		Large	大型胎
THP-1580		16.0-24/25		Small-specific	小特殊胎
THP-1825		18.00-25		Medium-specific	中特殊胎
THP-2350		26.5-25/28		Large-specific	大特殊胎

TPS-1300-2-PCD-4L

Precure Tread Vulcanizing Double-side and Multi-layer 低溫胎面膠平板硫化機-雙向多層出模系列

Mechanical features at a glance

- Multi-layer design performs high efficiency.
- Multiple cylinders controlled by precise hydraulic oil circuit, to ensure synchronizing movement.
- Apply thermal analysis to enhance platens precision. Utilize FEA (Finite Element Analysis) to make sure structure safety.
- 採多層式機構及雙邊出模，提高生產效率，減少能源消耗。
- 加壓缸採多缸式，經精密油壓迴路控制，確保加壓缸作動同步。
- 熱盤經熱流分析，提高溫度精度，在結構上均經應力分析，確保設計安全。



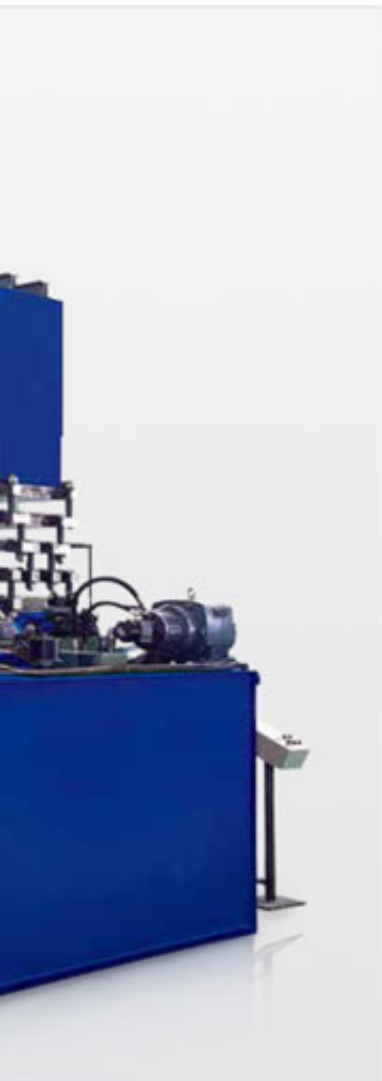
Technical Specifications 機器規格表

Machine Type	機型		TPS-300-2-PCD-6L	TPS-1300-2-PCD-4L
Clamping Force (Each side)	鎖模力 (每側)	ton	300	1300
Heating Platen	熱盤尺寸	mm	W400 X L3750 X H60	W700 X L6000 X H65
No. of Heat Platen (Each side)	熱盤數 (每側)	mm x pcs.	7	5
Daylight per Layer	每層開檔	mm	100	120
Stroke	最大行程	mm	600	480
Max. Working Pressure	使用壓力	kg/cm ²	105	165
Piston Diameter (Each side)	活塞直徑 (每側)	mm x pcs.	250 X 6	355 X 8
No. of Heat Layer (Each side)	層數 (每側)	layers	6	4

TPS-600-PC

Precure Tread Vulcanizing

低溫胎面膠平板硫化機



Technical Specifications 機器規格表

Machine Type	機型		TPS-600-PC
Clamping Force (Each side)	鎖模力 (每側)	ton	600
Heating Platen	熱盤尺寸	mm	W650 X L3750
No. of Heat Platen (Each side)	熱盤數 (每側)	mm x pcs.	2
Daylight per Layer	每層開檔	mm	120
Stroke	最大行程	mm	120
Max. Working Pressure	使用壓力	kg/cm ²	210
Piston Diameter (Each side)	活塞直徑 (每側)	mm x pcs.	250 X 6
No. of Heat Layer (Each side)	層數 (每側)	layers	1

TIP-15000-2RT-L-1200-PCD

Tire Bladder Vulcanizing Machine

Jumbo Size Injection Molding Machine

輪胎氣囊硫化成型機-大型射出機

Clamping Force 鎖模力 : 1200 tons
Injection Volume 射出量 : 15000 c.c.

Mechanical features at a glance

- Main frame and injection unit equipped with linear transducer to ensure clamping position and injection volume.
- High efficiency mold vacuum system.
- Bottom heating platen moves out with mold to keep temperature.
- With mold safety design on the hydraulic system to detect the abnormal pressure before mold close.
- Horizontal injection unit to decrease the press height and suitable for premise limit.
- Suitable for bladder production to increase the bladder life and save materials.

- 主機上升下降及射出單元，使用高精密度光學尺控制，精確的控制合模位置與計算射出量之大小。
- 高效率模具真空系統。
- 下熱盤出模機構，模具保溫效果佳。
- 特殊油路控制系統，偵測到合模壓力異常時，會自動開模，防止模具損壞。
- 橫式射出單元，機台高度有效降低，有利於廠房高度限制使用。
- 生產之氣囊壁厚均勻穩定，可增長氣囊使用壽命並減少膠料浪費。

Products 製造成品

- Tire bladders
- 氣囊



TPS-800-PCD-BL

Tire Bladder Vulcanizing Machine

輪胎氣囊硫化成型機

Mechanical features at a glance

- The model is designed for molding of bladders.
- Main frame designed in slab side type ensures firm and durable mechanism.
- To fit factory and operation height, main structure is designed to put into the pit.
- High daylight for easily loading and unloading.
- With automatic clammer to pick up products (option).
- 專為輪胎氣囊硫化成型設計之機型。
- 機體採旁板型機構設計，機壁耐久不變型。
- 配合客戶廠房形式，主結構設計可置入地坑，滿足廠房高度限制及人員操作位置。
- 高開檔設計，入料、取料、脫模離型，可在同一空間完成，不須出模。
- 可選配自動夾料、取料機構。



THP-250-PC-0B

Tire Flap Curing Machine

輪胎襯圈硫化機

Mechanical features at a glance

- Special for making tire flap.
- Main frame with slab side mechanism for mold easily change. Top cylinder design with low working height for ergonomic engineering.
- High daylight with mold operation could make max. four flaps in one cycle.
- Automatic moving up and down with simple operation to decrease cycle time and improve productivity.
- 專為生產襯圈產品之專用機，可製作卡客車大型輪胎用襯圈。
- 主機構採旁板型，便於模具更換時的空間運用，上置式油壓缸作業高度符合人因工程。
- 高開檔空間搭配生產模具，每次合模生產最多可製作四條襯圈。
- 全自動上升下降，操作簡易，減少作業時間，提高生產效率。

Products 製造成品

- Tire flaps
- 輪胎襯圈



Technical Specifications 機器規格表

Machine Type	機型		THP-250-PC-0B
Clamping Force	鎖模力	ton	250
Piston Diameter	活塞直徑	mm	ø400
Bolster Plate Diameter	模板直徑	inch	20~24
Daylight	最大開檔	mm	1510
Stroke	最大行程	mm	1000
Heating Method	加熱方式		Heating on Mold 模具加熱
Motor	主機使用馬力	HP	15
Max. Pressure	主機最高壓力	kg/cm ²	250
Dimension (Drawing No.)	外觀尺寸	mm	L1500 X W920 X H4200



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