

Comp-Form Series



Composites and Applied Materials
Forming Solutions

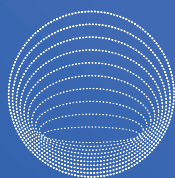
複合材料應用成型機系列

 **TungYu**

FORMING INNOVATION

東毓深耕成型技術 持續擴展應用領域

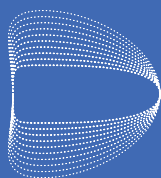
Tung Yu specializes in crafting cutting-edge hydraulic machines, from rubber compression to injection molding, revolutionizing industries across 75+ nations. Join us in shaping the future of technology and experiencing the Tung Yu difference!



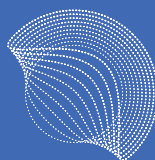
TYC



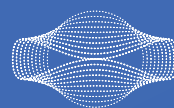
TIP



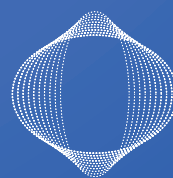
THP



Tire



Heavy Duty
Composites



YCP

Tung Yu - Tailor-Made Solutions Provider

TungYu, certified to ISO 9001 and ISO 14064 standards and CE compliant, has been a trusted expert in hydraulic machinery since 1983. Tung Yu manufactures a wide assortment of products, from 5 tons hydraulic press to 15,600 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 Silicone (Solid/Liquid) Injection Molding Machine, Conveyor Belt Vulcanizing Machines, Tire Molding Machines, Retreading and Solid Tire Molding Machines.

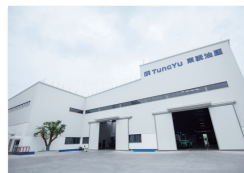
東毓油壓機械股份有限公司，自1983創立以來，秉持著董事長楊楨彬先生之「穩健踏實、永續經營」經營理念，以「誠信」立足市場。『Tung Yu』品牌行銷全球七十餘國。承製能力範圍廣闊，鎖模力由5噸小型油壓沖床至15,600噸的輸送帶硫化機，均能承製。主要機械產品線：熱壓成型機、橡矽膠(固/液態)射出成型機、輸送帶硫化機、輪胎硫化機、翻新胎硫化機以及各式油壓機械，產品應用領域跨足各大產業。未來發展以創新為目標，深耕「力量與熱量載具」之核心技術，成為成型技術的領先者，為客戶創造最大價值。



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Composites and Applied Materials Machine Ranges 複合應用材料系列機型

05 Cold / Hot Forming Machine
冷熱壓成型機

09 Post Type Compression Forming Machine
柱型成型機

13 Compression Forming Powder Machine
粉末成型機

14 Global Sales Network
全球銷售網絡

Composite Material Applications

複合應材系列機型成品類別

Electronics Industry :

Dielectric resonators, Hard disc targets, Optical disc targets, Solar cell targets

Aerospace Industry :

Airbus shells, Seat back

Medical Application :

Carbon magnetic resonance imaging beds

Automotive Application :

Vehicle engine hoods, Car bumpers, Fiberglass watercrafts, Fiberglass vehicles

Sports Application :

Carbon cages, Carbon front forks, Carbon handlebars, Carbon frames, Carbon saddles
Carbon bike frame, Safety helmet, Protective pads

電子產業：介電共振器、硬碟靶、光碟靶、太陽能靶

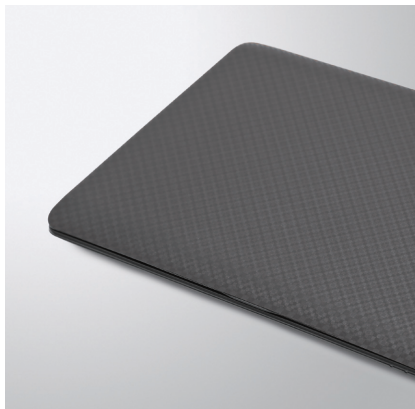
航太產業：飛機內裝、空中巴士座椅結構

醫療用品類：碳纖維MRI 磁振造影儀床艙

汽機車產業：卡車引擎前蓋、汽車保險桿、玻璃纖維汽機車配件

運動用品類：碳纖維腳踏車座墊、車架、車手把、飲料架、輪組、曲柄、自行車架、安全帽、運動護具





THP-150-A-2-S-PCD-3L(CE)

Multi-deck Cold / Hot Forming Machine

複合材料多層冷熱壓成型機

Mechanical features at a glance

- Capable for multi-layer production simultaneously to increase productivity and reduces the footprint and energy consumption.
- Suitable for : rubber, composite parts, carbon fiber.
- 可同時成型多件產品，不僅提高產量、節省空間，更能降低能源消耗。
- 適用於一般橡膠、特殊複合材料、碳纖維之冷熱壓成型。



Cold / Hot
Forming Machine
冷熱壓成型機

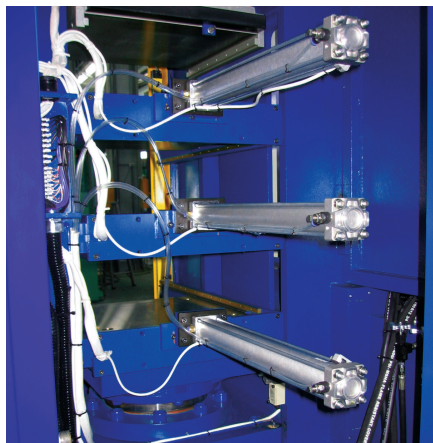
Post Type Compression
Forming Machine
柱型成型機

Compression Forming
Powder Machine
粉末成型機



Products 製造成品：

- Carbon products
- Cages
- Front Forks
- Handlebars
- Frames
- Saddles
- MRI beds
- Airbus shells
- Seat back
- 碳纖維製品
- 水壺架
- 前叉
- 車手把
- 車架
- 坐墊
- MRI 磁振造影儀床艙
- 飛機內裝
- 空中巴士座椅



Features 特寫說明

- Multi-layer design with air cylinder for mold movement to increase productivity.
- 可同時生產多層模具，並配置氣壓式進退模機構。

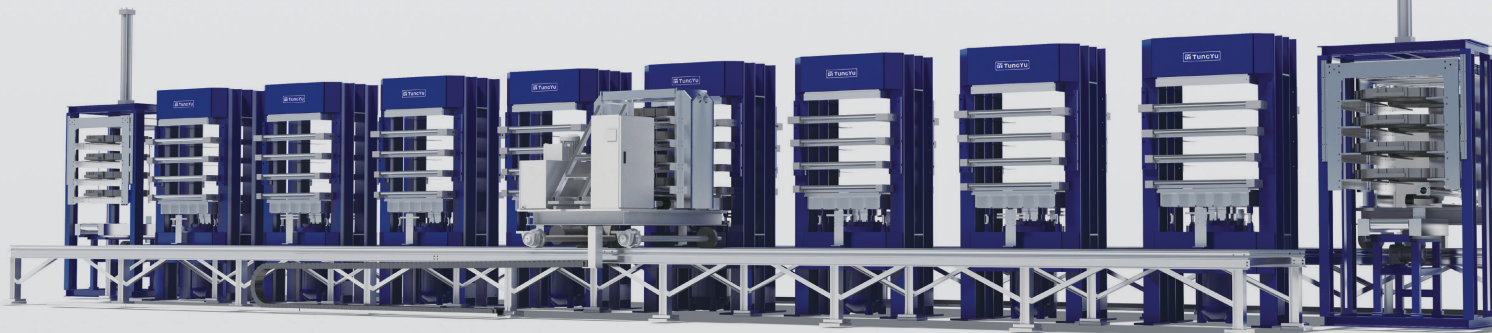
TPS-200-6-PCD-4L/TPS-200-2-PCD-4L

Multi-station Carbon Fiber Hot/Cold Compression Molding Press

碳纖維多站式冷熱壓成型機

Mechanical features at a glance

- Integrated 6-hot and 2-cold station line for optimized thermal cycle management.
- Mass production capability with 32-mold simultaneous processing.
- Laser-guided dual-shuttle system for high-speed, safe mold transport.
- Powered elevator system with gravity descent for precise and energy-efficient positioning.
- 6熱2冷多台機整合連線，優化生產循環效率。
- 具備 32 模同時生產能力，滿足極高產量需求。
- 雙向移動台車配置雷射掃描，確保運輸高速且安全。
- 動力升降機構採自重下降設計，定位精準且節能。



Cold / Hot
Forming Machine
冷熱壓成型機

Post Type Compression
Forming Machine
柱型成型機

Compression Forming
Powder Machine
粉末成型機



Products 製造成品：

- Bicycle frames, rims, and various high-performance sports equipment.
- 腳踏車車架、輪圈等各項運動器材。



Features 特寫說明

- Smart trolley drives full-line automation, maximizing labor savings.
- Quad-mold synchronous pressing drastically shortens cycle times.
- 智慧台車串聯全線自動化，極大化人力節省。
- 四模同步冷壓成型，大幅縮短生產週期。

TYC-8X4-A-S-PCD-UP(CE)

Special Tilt Compression Forming Machine (Down Stroke)

特殊翻轉設計成型機 (上置式)

Mechanical features at a glance

- Shuttle mold by sliding cart with smooth and precise movement.
- Down stroke design with lower working height.
- Special tilt angle for different mold design.
- With separate operational boxes to secure safety.
- 配置台車傳送，製造流程穩定且精確。
- 主缸上置式設計，有效降低工作高度。
- 特殊翻轉角度，配合不同模具設計。
- 分離式操作台保障工作人員人身安全。



Cold / Hot
Forming Machine
冷熱壓成型機

Post Type Compression
Forming Machine
柱型成型機

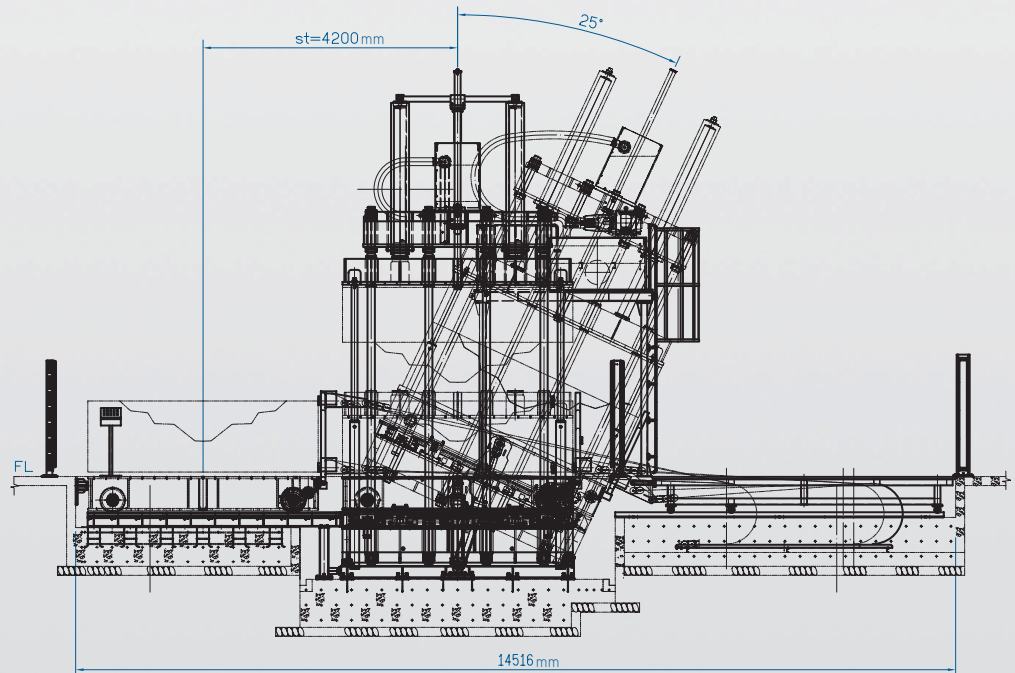
Compression Forming
Powder Machine
粉末成型機



Products 製造成品

- Vehicle engine hoods
- 卡車引擎前蓋
- Car bumpers
- 汽車保險桿

Dimensions 構造



Features 特寫說明

- Multiple forming modes as to special process requirements.
- PLC control is compatible with materials pumping process.
- 合模組合搭配機台動作，提供多種合模模式。
- 程式控制與周邊原料泵浦結合。

TYC-10X6-2A-2-S-PCD-UP

Fiberglass Products Forming Machine

玻璃纖維成型機

Mechanical features at a glance

- Down stroke design with lower working height.
- Double stations with the sliding carts increase the productivity.
- Sliding carts with position pins to secure working safety.
- All heating wiring, vacuum line, air hose, and electrical cable are protected by track during mold sliding process.
- Mechanical structure depends on products size and production.
- 主缸上置式設計，有效降低工作高度。
- 雙邊主機皆配置台車，使產量提高。
- 台車搭配定位銷，保障作業安全。
- 模具加熱、真空、氣源及電氣管路皆以戰車履帶保護，確保模具傳動操作安全。
- 可依據客戶產品尺寸及製程設計合適的專用機。



Cold / Hot
Forming Machine
冷熱壓成型機

Post Type Compression
Forming Machine
柱型成型機

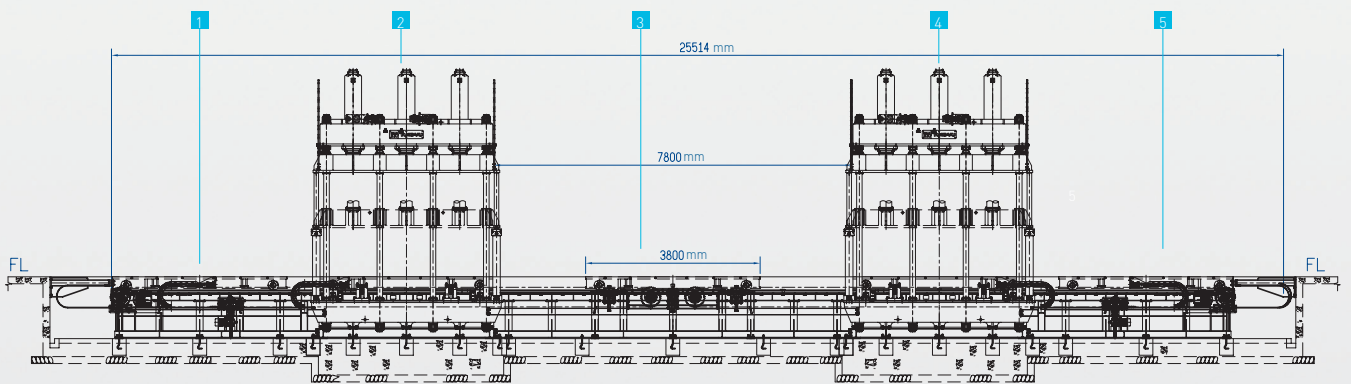
Compression Forming
Powder Machine
粉末成型機



Products 製造成品

- Fiberglass watercrafts
- Fiberglass snowmobiles
- Fiberglass vehicles
- 玻璃纖維船舶
- 玻璃纖維雪車
- 玻璃纖維汽機車

Dimensions 構造



1&5 Demolding Station / 2&4 Main Frame / 3 Spray Station with Robot (Supplied by Customer)

1&5 脫模部 / 2&4 主機部 / 3 噴灑區(可搭配由客戶提供的機器手臂)

※ Custom designed available 可依需求做客製化設計

TPS-2000-A-PCD

Bridge Type Compression Forming Machine

龍門型熱壓成型機



Mechanical features at a glance

- Clamping force : 2000 tons
- Heating platen size : 1500 x 1500 mm
- Mold closing speed : min. 0.03 mm / sec
- 鎖模力：2000噸
- 熱盤尺寸：1500 x 1500 mm
- 合模速度：最小0.03 mm / sec

Products 製造成品

- Hard disc targets
- Optical disc targets
- Solar cell targets
- Dielectric resonators
- 硬碟靶
- 光碟靶
- 太陽能靶
- 介電共振器

TYC-12-S-PCD-2L-UP

Double Decker (Down Stroke)

雙層熱壓成型機(上置式)

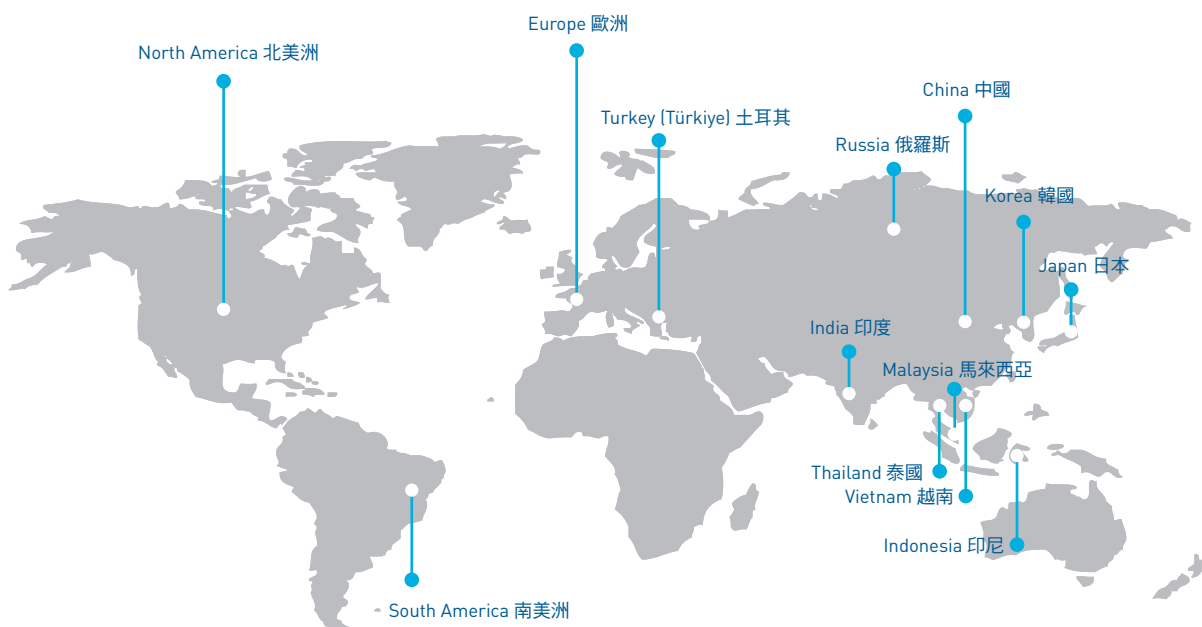


Mechanical features at a glance

- Clamping force: 150 tons
- Max. surface pressure for product: 600kg/cm²
- Well mixed auto-feeding.
- Transparent window to check remaining material in the material barrel.
- Safety protection: light curtain, dual hand control.
- 鎖模力：150噸
- 產品最大面壓：600kg/cm²
- 自動填料且均勻。
- 透明視窗檢查料桶餘料。
- 安全措施防護：安全電眼、雙手啟動。

Products 製造成品

- Dielectric resonators
- 介電共振器



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