

CE
ISO 9001

DerGang

尚燁機械科技股份有限公司



DG-EP2 Series 500-3000T

大型節能式射出成形機

**SERVO MOTOR DRIVE
LARGE SIZE INJECTION MOLDING MACHINE**



Dergang in Taiwan

「得鋼」於1984年正式成立，自行開發之J-Series塑膠射出成型機投入此市場。在這場塑膠工業歷史中，Dergang在起伏巨大的激烈競爭市場中，逐步且穩健的站立。

得鋼成立的年歲中，環境瞬息萬變的巨大變化，得鋼也同樣無法避免這場快速的工業演變，從J-Series到現今的DG-EP2 Series塑膠射出成型機，這之間的差異不僅是機器結構設計的精緻衍生，同時也代表著從簡易的液壓驅動油路到新一代的邏輯液壓迴路，以及更新的伺服閉迴路控制。

於21世紀面對越來越高的環保與能源意識，致力於更省能源的設計，同樣的，在電氣控制也由早期的繼電器接點控制，類比無接點控制，數位控制到目前的微電腦控制，從簡陋到精密，堪用到穩定，這一路來無非只為追求塑膠射出成型機的終極目標 - 「精緻的再現性」。

得鋼為提升塑膠射出機市場競爭力，致力於公司內部改造，整合資源等措施，擴大組織，並且將使用多年的「得鋼」更改為「尚燁機械科技股份有限公司」，請舊雨新知繼續支持我們。

DER GANG MACHINERY CO.,LTD. was founded in 1984 and a professional manufacturer of the "Plastic Injection Molding Machine". Accumulating lot of years experience for promotion of "Quality", "DER GANG" had developed and modified the "J-Series" to "DG - EP2 Series"

This modification a focus on: Precision , Energy Saving & Humanistic. Our company policy is supplying the good machines and offering "Good after sales service" to connect with customers always.

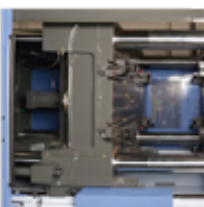
1



工業級12吋TFT觸控螢幕，提高操作效率，採用全鋁殼面板，提高使用壽命。

Industrial 12 inch TFT touch screen, improve operational efficiency, and using full-aluminum panel to improve the service life.

2



具備國際標準模面安裝孔位，高剛性機壁結構，減少機壁變形量，提高機台壽命。

With the international standard die mounting holes and high rigid wall structure for reducing the amount of deformation of the machine to improve the machines' life.

3



標準化施工流程，精簡的油路性節能系統，提高維護保養效率。

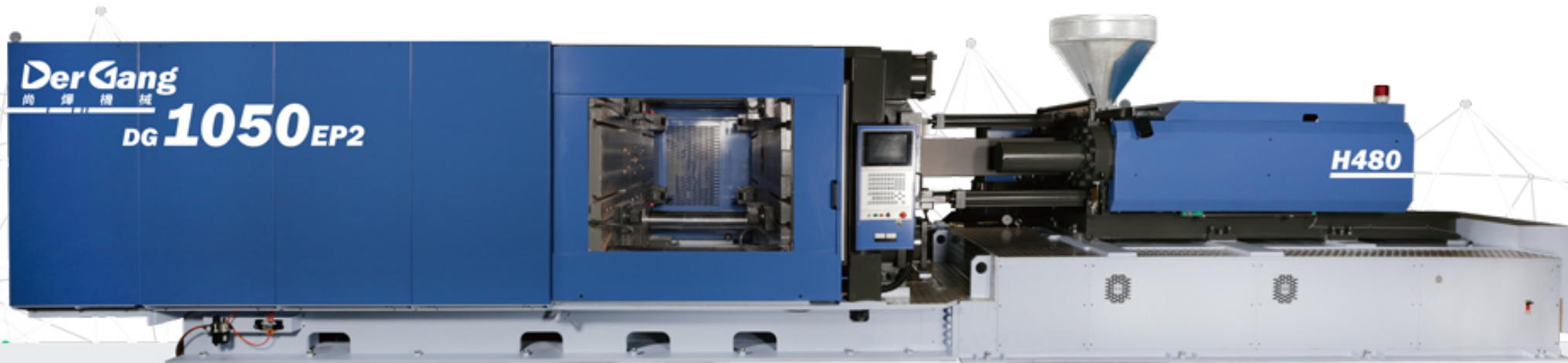
Standardized construction process, streamlined oil-based energy-saving system to improve the maintenance efficiency.

4



高品質的線性滑軌，降低射出座阻力，提高射出加速反應，提高儲料背壓控制穩定度。

Using high-quality linear guideway for reducing the injection nozzle resistance and improve the injection accelerated response and also improve the stability back pressure of the storage control.



5



高剛性十字架結構，與精密加工的曲手結構，有效確保開關模時，模面平行度與鎖模力平衡。

High rigidity of the cross structure and precision machining of the toggle structure, effectively ensure the mold surface parallelism and clamping force balance between open and close mold.

6



曲手採用自動打黃油系統，提高維護保養效率，提高曲手結構壽命。

With automatic lubricant in toggle which improve maintenance efficiency and the toggle life.

7



高性能伺服驅動系統，具壓力與速度PID閉環控制，減少能源消耗50%-60%。

High-performance servo drive system, with pressure and speed PID closed-loop control and reduce energy consumption 50% to 60%.

8



高品質控制系統，具備高速演算能力，精簡配線，具備彈性擴充能力。

High-quality control system, with high-speed computing capacity and streamline wiring, also with flexible expansion capabilities.

高品質HMI

- 12吋高亮度觸控式螢幕
- 採用全鋁殼材質，提昇散熱性，與美觀性。
- 採用耐刮玻璃材質，提高使用壽命與抗污性。
- 採用Ethernet通訊與主機相連，減少信號干擾問題。

High quality of HMI

- 12 inch with high-brightness touch screen
- Aluminum shell materials with heating dissipation greatly.
- Wear-resistant glass material with great service life and pollution-resistant.
- Reduce the signal interference problem through Ethernet connection.



優異的保壓控制性能

精準的保壓控制，壓力過衝<1bar，性能更是超越傳統的比例壓力控制閥。

Excellent Holding Pressure Control

Excellent holding pressure control(Pressure overshoot<1 bar), and the performance is beyond the traditional proportional flow valve.

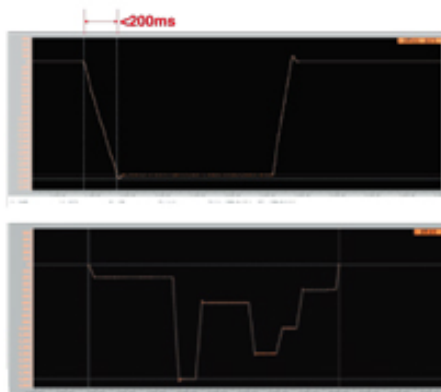


高反應的射出控制

高反應的射出速度控制(大型機射出加速反應<200ms)，性能更是超越傳統的比例流量控制閥。

High Reactivity of Injection Control

High reactivity of injection control (Large machine injection acceleration reaction <200ms), and the performance is beyond the traditional proportional flow valve.



高反應的射出控制 High Reactivity of Injection Control

高效率的節能系統

- 全數位傳輸，減少信號干擾，提昇系統可靠性。
- 高性能PID閉環控制，提高系統穩定度。
- 高響應 / 高重複精度。

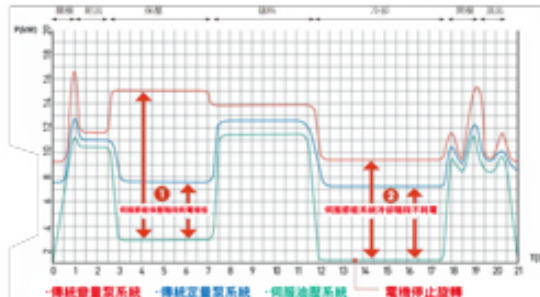


High Efficiency Servo System

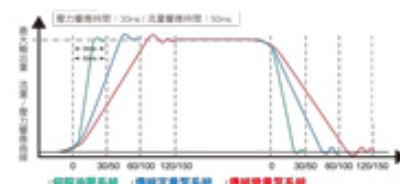
- All-digital transmission, reduce signal interference, improve system reliability.
- High performance with PID close-loop control and improve system reliability.
- High response and high repeatability.

● 伺服驅動液壓射出成型機

- ① 伺服節能保壓階段耗電極低
- ② 伺服節能系統冷卻階段不耗電



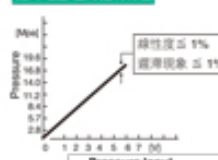
● 高響應



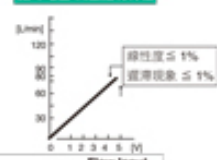
● 高重複精度

線性好，誤差小，相當於PVC閉環的性能

指令電壓-壓力控制特性



指令電壓-流量控制特性



能源消耗分析系統

內建能源消耗分析系統，可以有效分析出每公升塑膠生產過程中消耗多少能源，並利用這個數據精準計算生產成本。

Energy Consumption Analysis System

Built-in energy consumption analysis system which can effectively analyze the energy consumption per kilogram during plastic production, and accurate calculation of production costs.

成形穩定適應各產品

廣泛射出成形各式類型產品



Molding Stability for A Variety Product

Wide range for molding a variety of injection products.



DG-EP2 Series 500-3000T

SERVO MOTOR DRIVE

LARGE SIZE INJECTION MOLDING MACHINE



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