

GOING·C&F

品質 · 服務 · 生活
QUALITY · SERVICE · LIFE

匠心至初心 初心至未來
ORIGINALITY TO BEGINNER'S MIND TO THE FUTURE

<https://cnc-going.ru>



免費諮詢熱綫 Free hotline

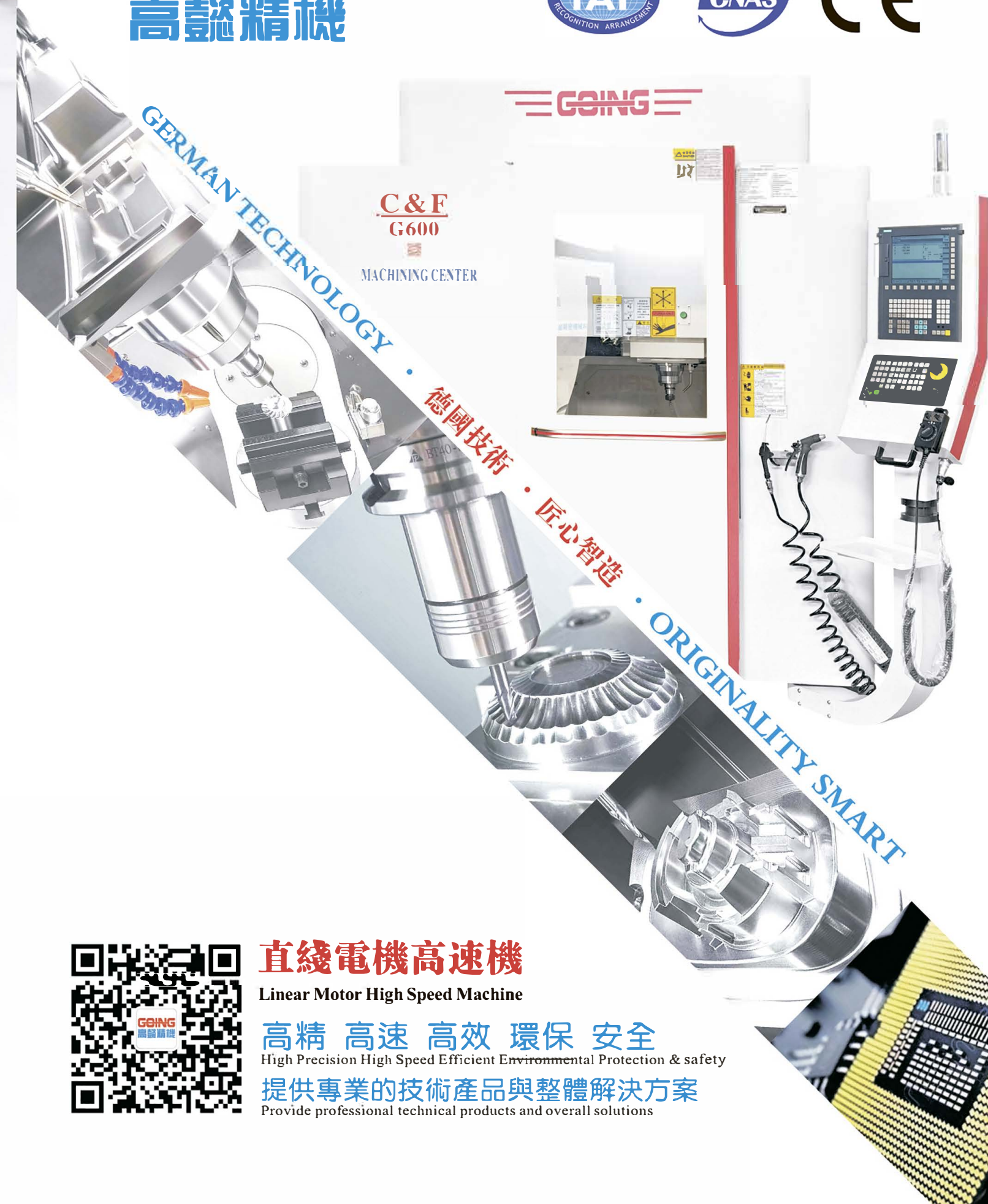
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SHANGHAI GOING PRECISION MACHINE TECHNOLOGY CO.,LTD

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GOING 高懿精機



直綫電機高速機

Linear Motor High Speed Machine

高精 高速 高效 環保 安全

High Precision High Speed Efficient Environmental Protection & safety

提供專業的技術產品與整體解決方案

Provide professional technical products and overall solutions

徹底表露高速加工的不凡風範

Complete Disclosure Of High Speed Machining Extraordinary Style



航空航天
Aerospace



精密模具
Precision Mold



新能源
New Energy



醫療產品
Medical treatment



3C電子
3C electron

航空航天、精密模具、新能源、醫療、3C等行業

Aerospace, precision mold, new energy, medical, 3C and other industries

追求效率及加工品質是致勝的關鍵

The pursuit of efficiency and processing quality is the key to success



• 高效銑削技術
High efficiency milling technology

• 高剛性鑄件結構
High rigidity casting structure

• 直綫電機驅動
Linear motor drive

• 持久 穩定 高效
Durable, stable and efficient

直綫電機核心技術

Core technology of linear motor

完善的超精密加工解決方案

Perfect ultra-precision machining solutions

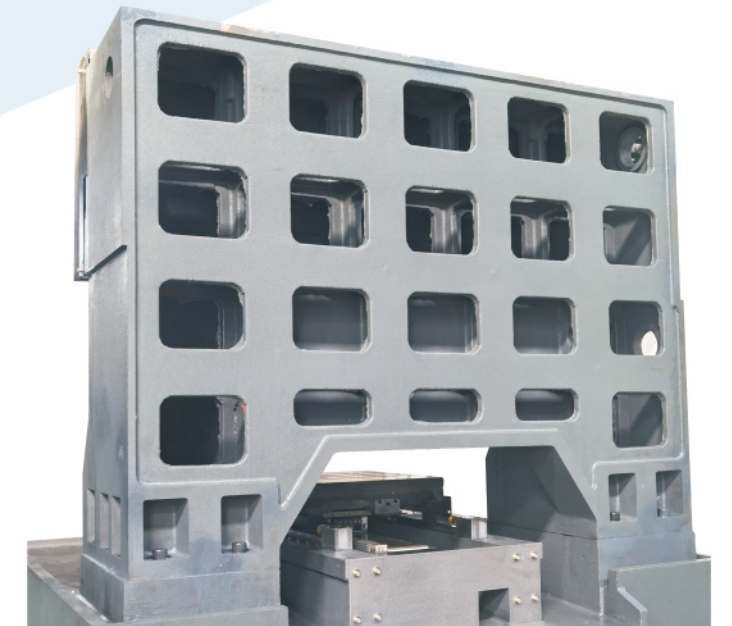
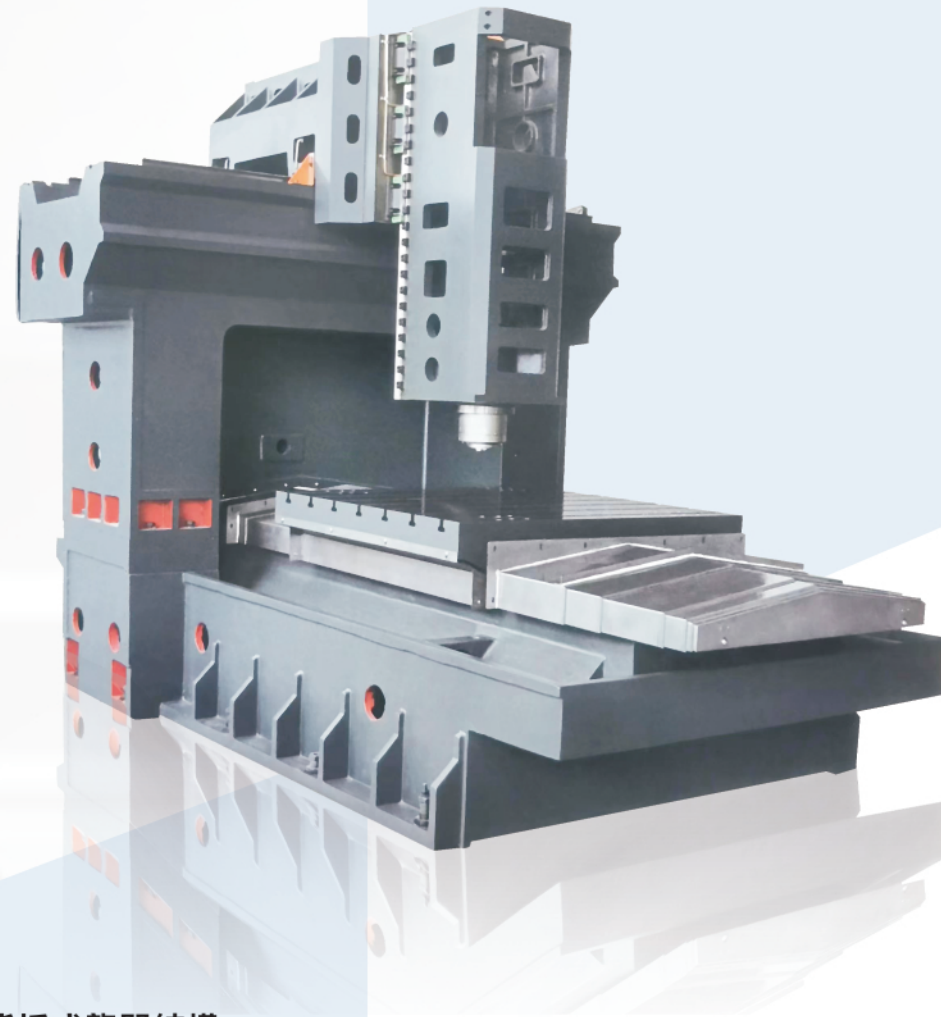
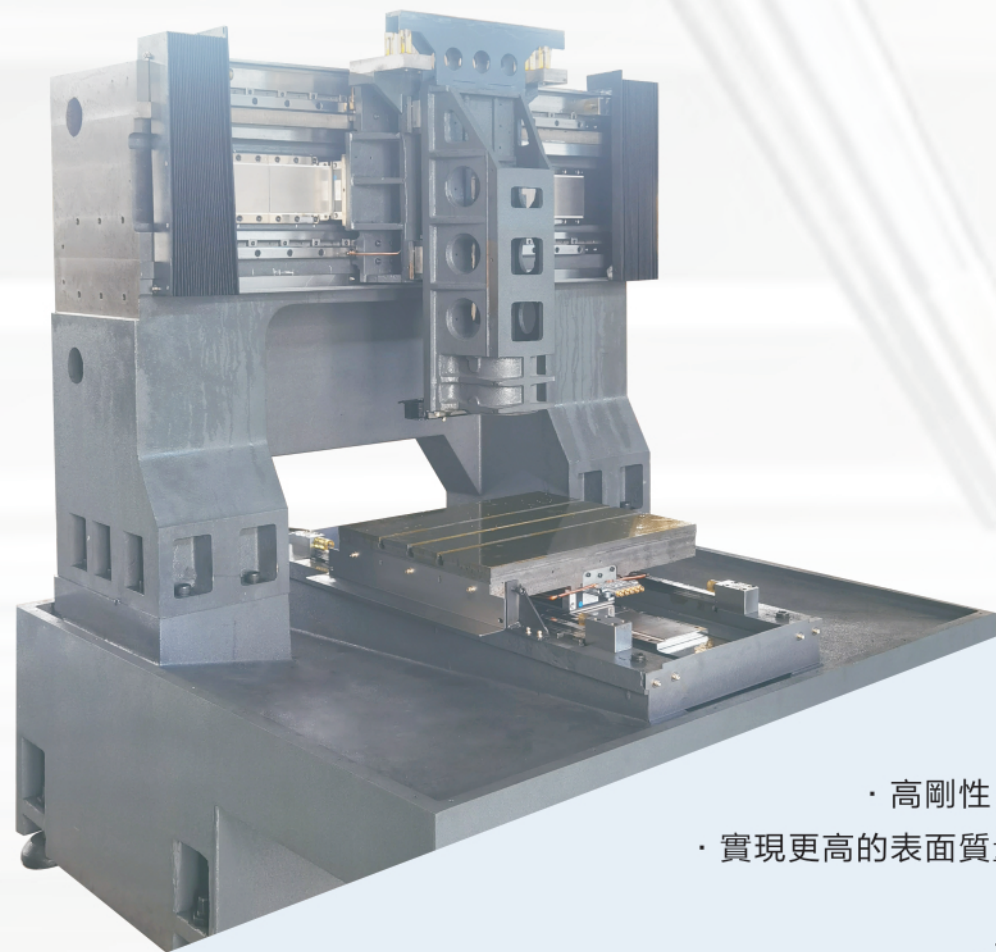
高精、高速、高效的完美體現

High precision, high speed, high efficiency perfect embodiment

機械精度來自于剛性 機械的結構強度確定剛性

Mechanical accuracy comes from rigidity
Mechanical structural strength determines rigidity

獨特強悍的機械結構
Unique and powerful mechanical structure



背板式龍門結構

- 高剛性，穩定性及精度持久性
- 實現更高的表面質量定位精度及輪廓精度

德國技術直線電機

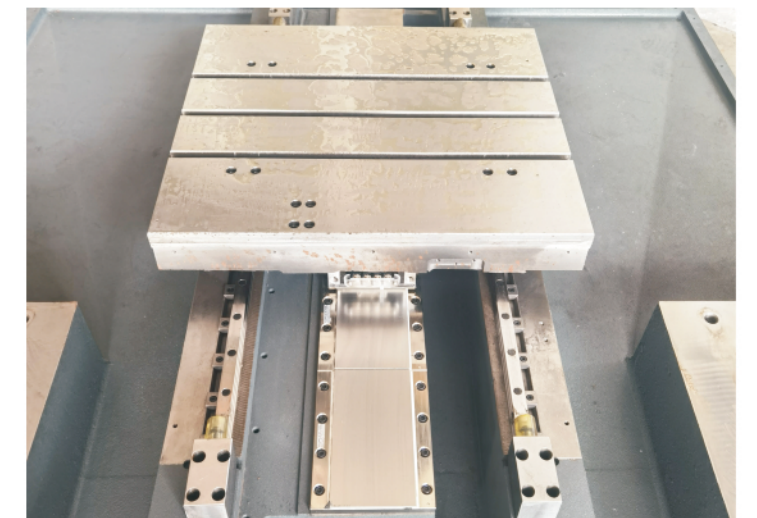
- 三軸直線電機加速度快

Back plate gantry structure

- High rigidity, stability and precision durability
- Achieve higher surface quality positioning accuracy and contour accuracy

German technology linear motor

- Three-axis linear motor has fast acceleration





頂級的裝備

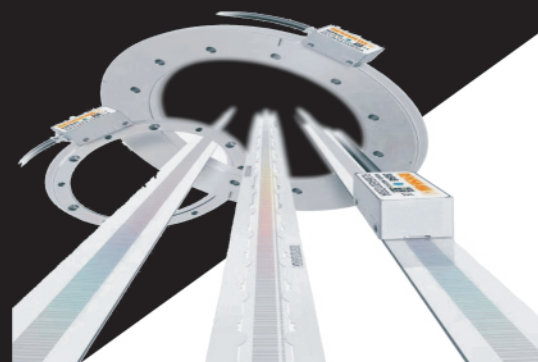
The top of the equipment

海德漢光柵尺

HEIDENHAIN grating ruler

機臺因快速位移，產生熱變位，可將熱變位的值回饋給控制器後做補償。
高精度、高解析度、高速、絕對零位

Due to the rapid displacement of the machine, the cooked position can be compensated by feeding the cooked position value back to the controller.
High precision, high resolution, high speed, absolute zero



成套技術方案

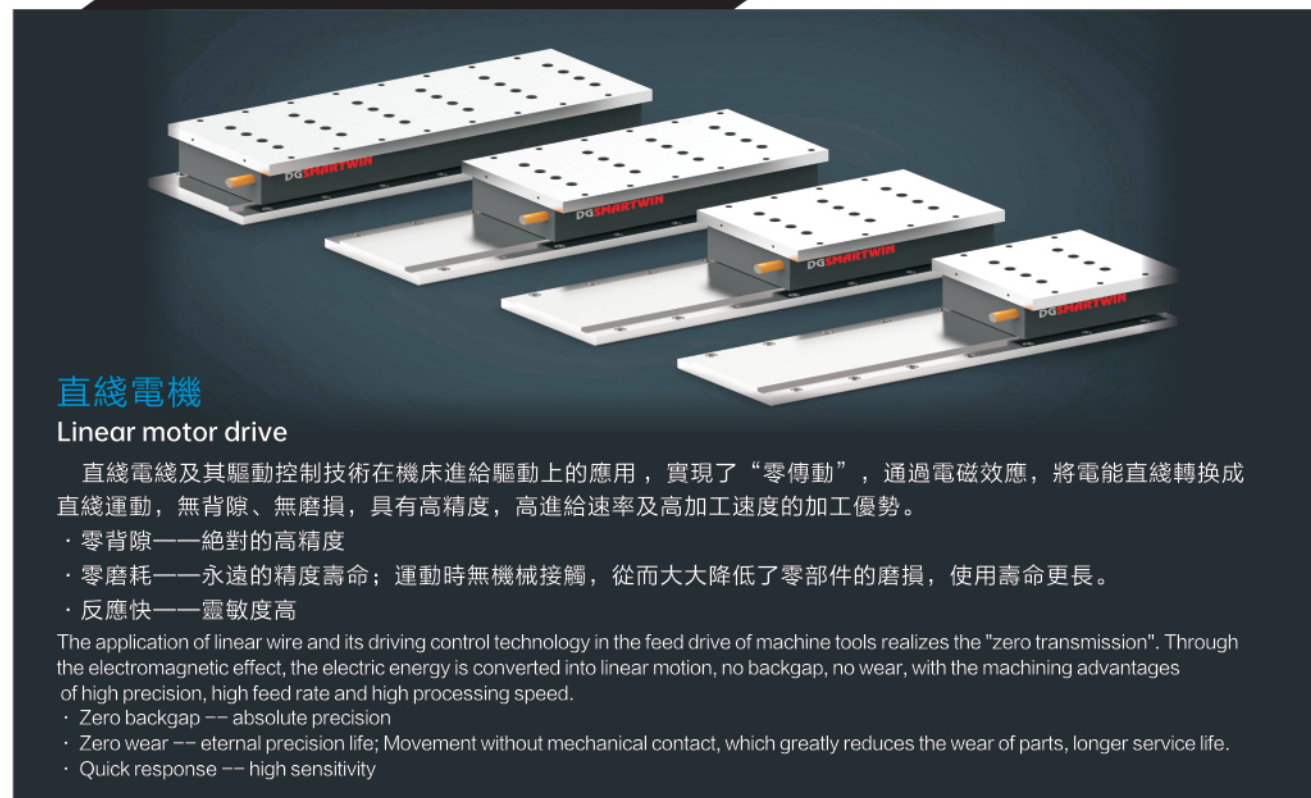
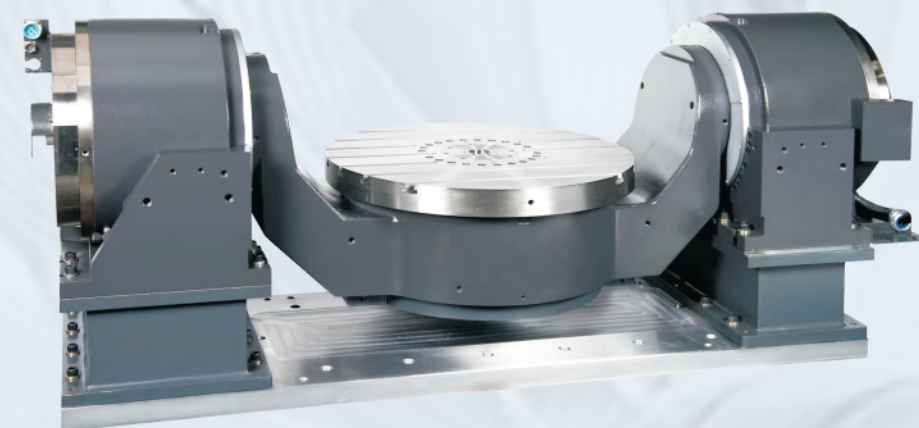
Complete technical scheme

直驅五軸

Direct drive five-axis

高轉速、高動態響應；無背隙，無磨損；定位精準，可任意角度定位

High speed, high dynamic response; No back backlash, no wear;
Accurate positioning, can be positioned at any Angle.



直線電機

Linear motor drive

直線電機及其驅動控制技術在機床進給驅動上的應用，實現了“零傳動”，通過電磁效應，將電能直線轉換成直線運動，無背隙、無磨損，具有高精度，高進給速率及高加工速度的加工優勢。

- 零背隙——絕對的高精度
- 零磨耗——永遠的精度壽命；運動時無機械接觸，從而大大降低了零部件的磨損，使用壽命更長。
- 反應快——靈敏度高

The application of linear wire and its driving control technology in the feed drive of machine tools realizes the "zero transmission". Through the electromagnetic effect, the electric energy is converted into linear motion, no backgap, no wear, with the machining advantages of high precision, high feed rate and high processing speed.

- Zero backgap -- absolute precision
- Zero wear -- eternal precision life; Movement without mechanical contact, which greatly reduces the wear of parts, longer service life.
- Quick response -- high sensitivity

對刀儀/線上檢測頭

Tool setting instrument / Line head

取代人工對刀繁鎖模式

Replace the artificial knife multiple locking mode

實現自動化生產模式

Realize automatic production mode

接觸式電子對刀儀

Contact electronic tool setting instrument

提高工作效率

Improve work efficiency



高性能控制系統

High Performance Control System



西門子系統 Siemens system

- 精優曲面和臻優曲面控制採用先進的預讀算法和智能程序段壓縮功能，確保模具加工的最快速度以及最佳表面質量和加工精度；
- 硬件支持多點操控，實現全新操作體驗；
- 高性能SINAMICSS120 Combi驅動高效加工；
- 直接從CF卡和U盤上執行龐大模具程序；
- 臻優曲面控制，成就完美銑削工件表面和加工精確度；

- Advanced prereading algorithm and intelligent program segment compression function are adopted to ensure the fastest speed, best surface quality and machining accuracy of mold processing;
- Hardware supports multi-point control to achieve a new operating experience;
- High-performance SINAMICSS120 Combi drive efficient processing;
- Execute large mold programs directly from CF card and U disk;
- Optimal surface control to achieve perfect milling workpiece surface and machining accuracy;



油霧收集器 Oil mist collector

對加工時產生的水霧、油霧有效的收集，確保加工時監視畫面
Oil mist collector The processing of water mist, oil mist effective collection, To ensure that the processing of the monitor screen



HSK 24T 刀庫 HSK 24T knife library

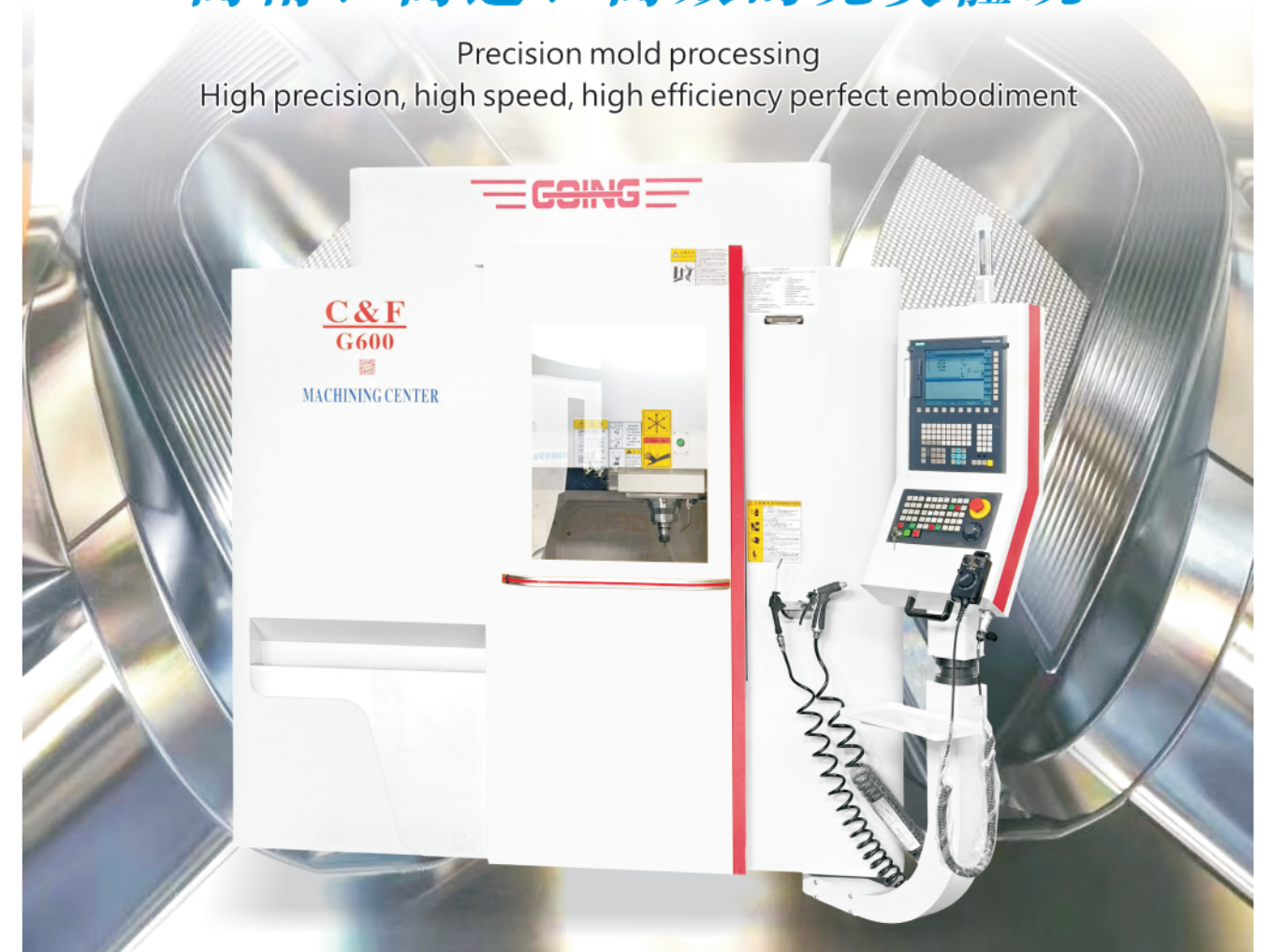
快速換刀 Quick tool change



石墨粉塵收集器 Graphite dust collector

精密模具加工實現 高精、高速、高效的完美體現

Precision mold processing
High precision, high speed, high efficiency perfect embodiment



材質：模具鋼、鎢鋼、陶瓷、鈦合金、碳化硅、石英、藍寶石、石墨
Material: Die steel, tungsten steel, ceramics, titanium alloy, silicon carbide, quartz, sapphire, graphite



鏡面加工
μ級精度
Mirror finish
μ precision



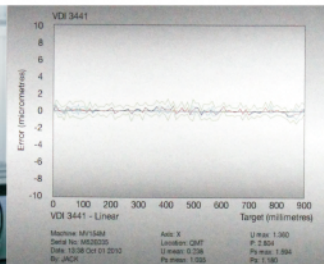
嚴格檢驗 性能保證

Strictly check the performance guarantee

激光鐳射檢驗
Laser inspection



定位精度=1.180 μm VDI3441
Positioning accuracy=1.180 μm VDI3441

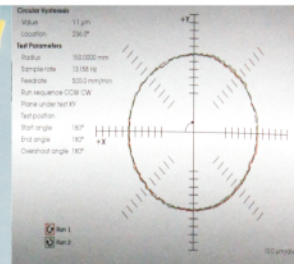


循圖檢測

Based on circle detection
精密循圖檢測實測值
0.005mm Φ150mm
follows the circle examination precisely
actual value 0.005mm Φ150mm



循圖量測進給:
500mm/min, Value: 1.1 μm
Roundness measurement Feed:
500mm/min, Value: 1.1 μm



嚴格把關每個細節

Keep a close eye on every detail

品質與精度 The quality and the precision

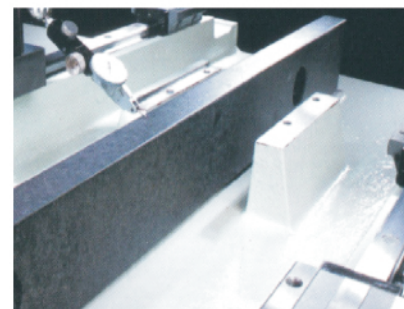
確保精度 (人工鍍花)
To ensure the accuracy of (Artificial scraping)



滑軌與螺桿 (同心與平行度)
Slides and screw (concentric and parallel)



滑軌與螺桿 (真直度與平面度)
Slides and screw (straightness and flatness)



機械規格

Mechanical Specification

項目 Project		G600	G800	G1000	
加工範圍 Processing range	X軸行程 X-axis stroke	mm 600	800	1000	
	Y軸行程 Y-axis stroke	mm 500	700	1000	
	Z軸行程 Z-axis stroke	mm 260	500	600	
	主軸端面至工作臺面距離 Distance from spindle end face to work surface	mm 150-410	200-700	200-800	
工作臺規格 Table specification	工作臺尺寸 (X軸方向) Table size (X axis direction)	mm 600	800	1100	
	工作臺尺寸 (Y軸方向) Table size (Y-axis direction)	mm 520	800	1000	
	工作臺承重 Table bearing	kg 100	300	500	
	T型槽規格 T-slot specification	mm 3-14*100	7-22*135	7-22*125	
主軸規格 Spindle specification	主軸轉速 Spindle speed	rpm 27000/30000	20000/24000	20000/24000	
	傳動方式 Transmission mode	mm 內藏式 Hidden type	內藏式 Hidden type	內藏式 Hidden type	
	主軸規格 Spindle specification	-	HSK E50	HSK/A63	HSK/A63
	主軸功率 Spindle power	kw 11	15/18	15/18	
系統 System	CNC系統 CNC system	西門子 Siemens	西門子 Siemens	西門子 Siemens	
刀庫 Knife store	容量 Capacity	T 24T	24T	24T	
進給 Feed	X/Y/Z軸快速進給 X/Y/Z axis fast feed	m/min 60/60/60	60/60/60	60/60/60	
	X/Y/Z軸切削進給 X/Y/Z axis cutting feed	m/min 1-20	1-20	1-20	
三軸電機 Triaxial motor	X/Y/Z軸直線電機推力 X/Y/Z axis linear motor thrust	nm 5600/5600/5600	14250/14250/7650	14250/14250/7650	
精度 Accuracy	定位精度 Positioning accuracy	mm 0.003	0.003	0.003	
	重複定位精度 Repeated positioning accuracy	mm 0.002	0.002	0.002	
三軸線軌 Triaxial rail	X/Y/Z軸導軌規格 X/Y/Z axis guide specification	mm 30/25/25	35/35/35	45/45/45	
其他 Other	空氣壓力 Air pressure	kg/cm² 6	6	6	
	主機外形尺寸(約) Main machine dimensions (approx.)	mm 1630*1600*2140	5100*3000*4200	4600*3600*3200	
	主機重量(約) Main engine weight (approx.)	kg 6500	7000	9000	

機床外形尺寸圖

Machine tool dimensions diagram

