



企业简介

Corporate profile

提供专业的技术产品与整体解决方案

Provide professional technical products and overall solutions

我们将竭诚为您服务

We will be happy to serve you

<https://cnc-going.ru>



我们的服务与承诺

Our service and commitment

經營理念Management idea

➤ 品質是企業立身之本;

Quality is the foundation of an enterprise;

➤ 誠信是企業永恆的基石;

Integrity is the eternal cornerstone of an enterprise;

➤ 顧客是企業動力的源泉

Customers are the source of enterprise motivation

➤ 為客戶創造價值Create value for customers;

➤ 為員工創造機會Create opportunities for employees

➤ 為社會創造效益Create benefits for society

企業精神Enterprise spirit

➤ 責任是企業信賴的保證;

Responsibility is the guarantee that enterprises trust;

➤ 改善是企業向上的力量;

Improvement is the upward force of the enterprise

➤ 積極是企業至勝的動力;

Positive is the driving force of enterprise to win;

➤ 創新是企業競爭利器;

Innovation is a competitive weapon for enterprises;

➤ 掌握核心技術助力中國智造。

Mastering core technologies to help China's intelligent manufacturing.

我们的服务与承诺

Our service and commitment

- 为客户提供经济合理的配置方案；

To provide customers with economic and reasonable configuration solutions;

- 为客户提供智能装备、工装夹具方案；

To provide customers with intelligent equipment, fixture solutions;

- 结合客户实际加工的产品制定相应的配置与装夹免费为客户试样，降低投资风险；

Combined with the actual processing of the customer's products to develop the corresponding configuration and mounting free samples for customers to reduce investment risk;

- 对保修期内的机床故障，我们将在24小时内给予回复或派出专业人员确保机床的正常工作；

For the machine failure during the warranty period, we will give a reply within 24 hours or send professionals to ensure the normal work of the machine;

- 为客户提供系统软件升级提供增值服务，一年免费三次上门为客户培训、保养、检修等服务；

Provide customers with system software upgrade to provide value-added services, free three times a year for customer training, maintenance, overhaul and other services;

- 保修期满后，我们将以优惠的价格为您服务，不定期上门回访，为客户维护和指导。After the expiration of the warranty, we will serve you at a preferential price, and return visits from time to time for customer maintenance and guidance.

企业历程 Company History



企业简介

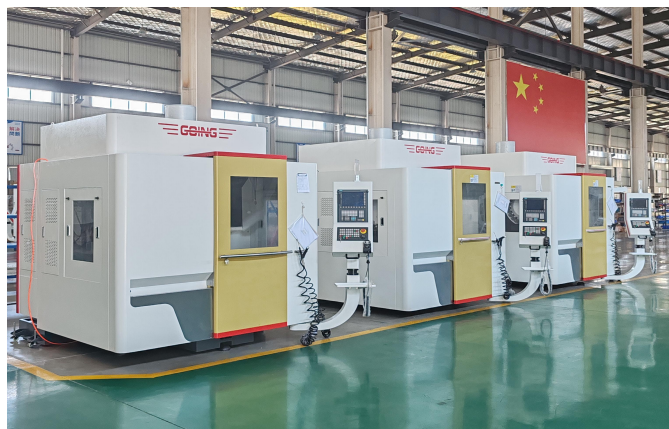
Corporate profile

- 公司自2004年创建至今19年，致力于研发、生产数控机床（石墨加工机、立式加工机、卧式加工机、龙门加工机、五轴加工机） Since its establishment in 2004, the company has been committed to the development and production of CNC machine tools (Graphite processing machine, Vertical processing machine, Horizontal processing machine, Gantry processing machine, Five-axis processing machine) for 19 years;
- 公司占地面积50多亩，20000平方生产车间 The company covers an area of more than 50 acres, 20000 square production workshop;
- 公司为国家高新技术企业，拥有专业研发团队和技术团队，产品拥有自主知识产权 The company is a national high-tech enterprise, with professional R & D team and technical team, and the products have independent intellectual property rights.



生产环境

Production environment



直線電機高速機
Linear motor high speed machine



臥式加工機
Horizontal processing machine



龍門加工機
Gantry processing machine



五軸加工機
Five axis processing machine



立式加工機
Vertical processing machine



自动化产线
Automated production line

机加工车间

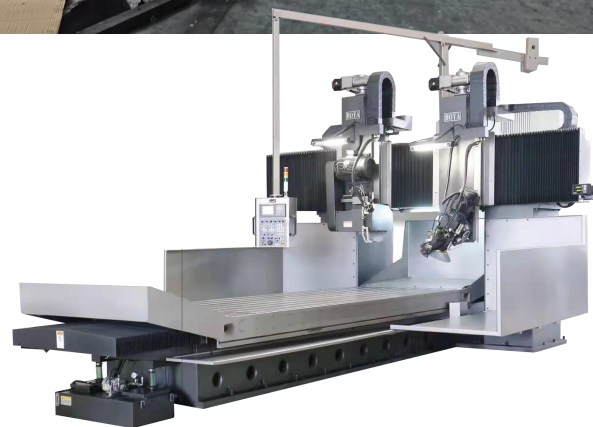
Machining workshop

➤ 機加工設備：精密導軌磨•精密平面磨•双头龍門磨•臥式加工機等

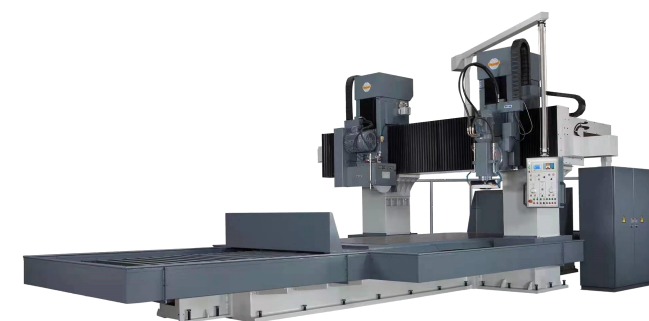
Machining equipment: Precision guide grinding•Precision surface grinding•Gantry processing machine•Horizontal processing machine, etc.



精密平面磨
Precision surface grinding



台湾双头龙门磨床
Taiwan double head gantry grinding machine



台湾精密导轨磨床
Taiwan precision guideway grinding machine

检测设备 Checkout equipment

检测设备 Checkout equipment

三坐标 Three-dimensional

激光干涉仪 Laser interferometer

主轴动平衡仪 Spindle dynamic

balancing instrument

循圆仪 Circulator

硬度计 Hardness tester

高度规等 Height gauge



主轴动平衡仪
Spindle dynamic balancing instrument



三坐标
Three-dimensional



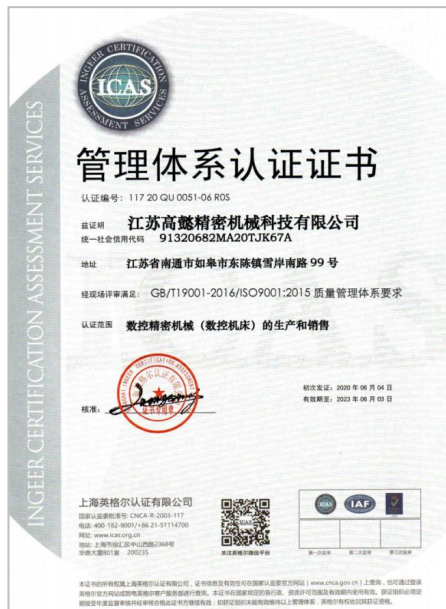
激光干涉仪
Laser interferometer



循圆仪
Circulator

企業資質

Enterprise qualification



ISO認證
ISO certification



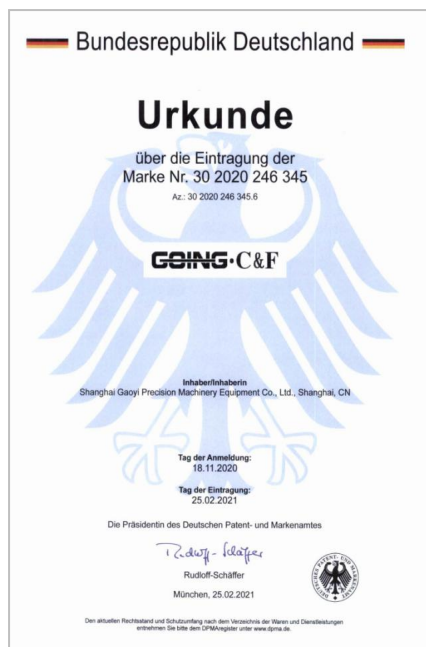
高企證書
High certificate



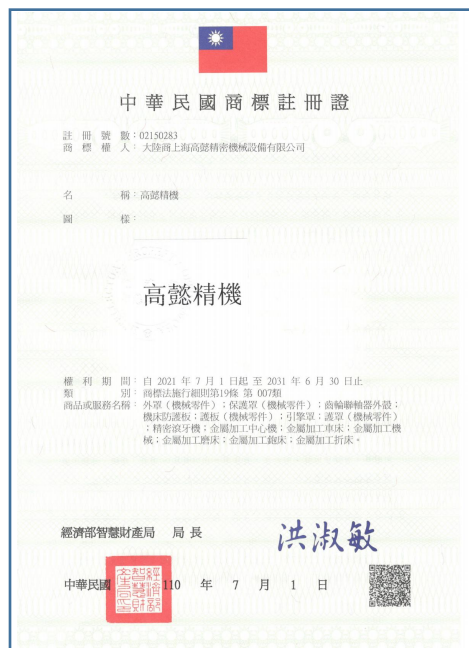
CE認證
CE certification

企业资质

Enterprise qualification



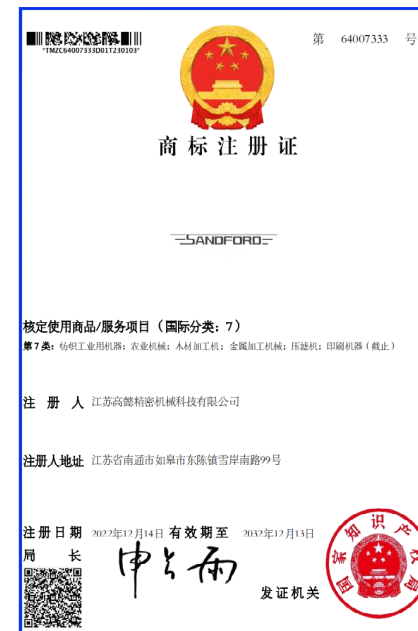
德国商标
German trademark



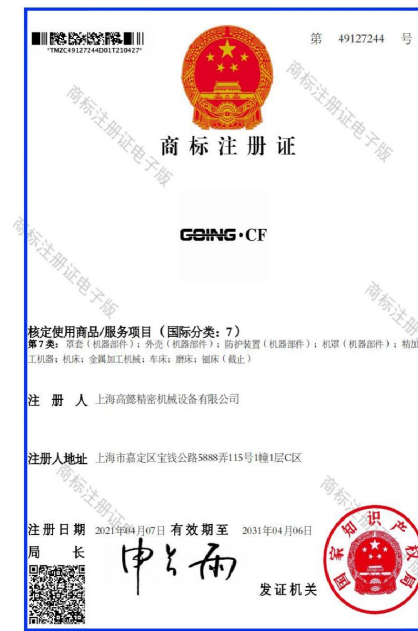
台湾商标
Taiwan trademark



中国商标
Chinese brand names



中国商标
Chinese brand names



中国商标
Chinese brand names

企业专利 Enterprise patent

序号	专利请号	专利名称
1	2020SR1207909	具有散热性能的高精度卧式加工中心High precision horizontal machining center with heat dissipation performance
2	2020SR1207904	高性能五轴数控机床High performance five-axis CNC machine tool
3	2020SR1207914	主轴防撞装置Spindle anti-collision device
4	2020SR1207919	控制器恒温装置Controller thermostat
5	ZL202030544462.6	智能主轴防撞控制系统Intelligent spindle anti-collision control system
6	ZL202021830591.2	智能人机交互系统 Intelligent human-computer interaction system
7	ZL202021830564.5	整体式的丝杆与电机座结构Tegreded screw and motor base structure
8	ZL202021830596.5	机床加工环保装置Environmental protection device for machine tool processing
9	ZL202021830535.9	伺服电源稳压装置Servo power supply voltage regulator
10	ZL2020218305325	对刀检测智能控制系统Intelligent control system for tool detection
11	ZL202120666393.5	智能换刀控制系统Intelligent tool change control system
12	ZL2021206663441	复合立式加工中心用五轴加工夹具Five-axis machining fixture for composite vertical machining center
13	ZL2021208313921	机床切削液过滤装置Machine tool cutting fluid filter
14	ZL2021208313917	机床铣削液循环系统Milling fluid circulation system for machine tools
15	ZL2021208312952	机床铣削液中废金属过滤用多级沉淀管道Multistage settling pipe for waste metal filtration in milling fluid of machine tools
16	ZL2021208312948	外观设计：立式加工中心 Appearance design: Vertical machining center
17	ZL202321044789.1	机床加工用固定夹持组件Fixed clamping assembly for machine tool processing
18	2022235107201	机床碎屑批量压缩回收装置Machine tool chip batch compression recovery device
19	2022235122381	机床切削液过滤用V型沉淀管V-shaped precipitating tube for machine tool cutting fluid filtration
20	2022235107199	可对滑块进行润滑龙门加工装置The sliding block can be lubricated gantry processing device



服務

——從心開始

GOING
高懿精機

站攻雕鏡 无所不能
德國技術 · 匠心智造

客戶滿意，服務至上



高速龍門加工機

高精、高速、高效的完美體現
適用於航空航天、汽車、醫療、
新能源、交通建設、農業、模具、
3C產業



石墨加工機

Graphite processing machine

精密零件模具3C零件加工致勝利器!

3C parts machining precision parts mold winning weapon!

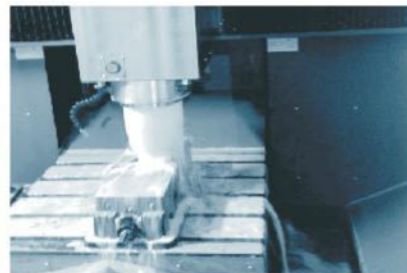


高精、高速、高效的完美體現

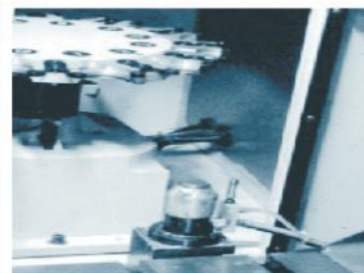
High precision, high speed, high efficiency
perfect embodiment



高速主軸
30000rpm~60000rpm High speed



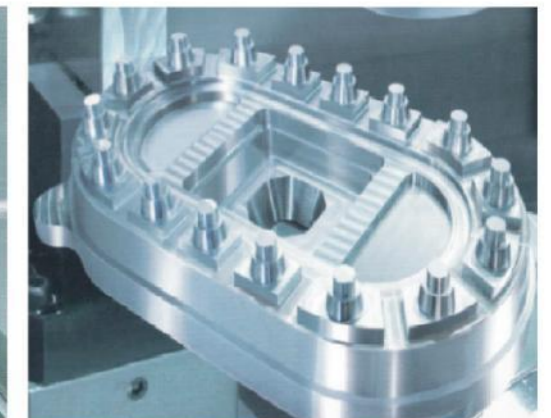
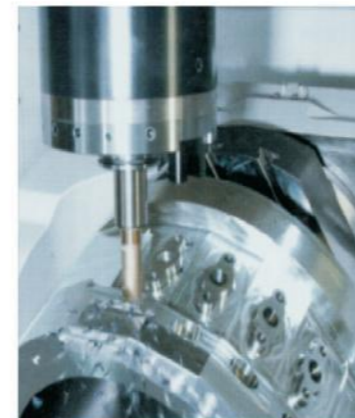
石墨專用
Special graphite



8-12把圓盤式刀庫
8 And 12 Disc Type knife Library



激光對刀儀
Laser Tool Setting Instrument

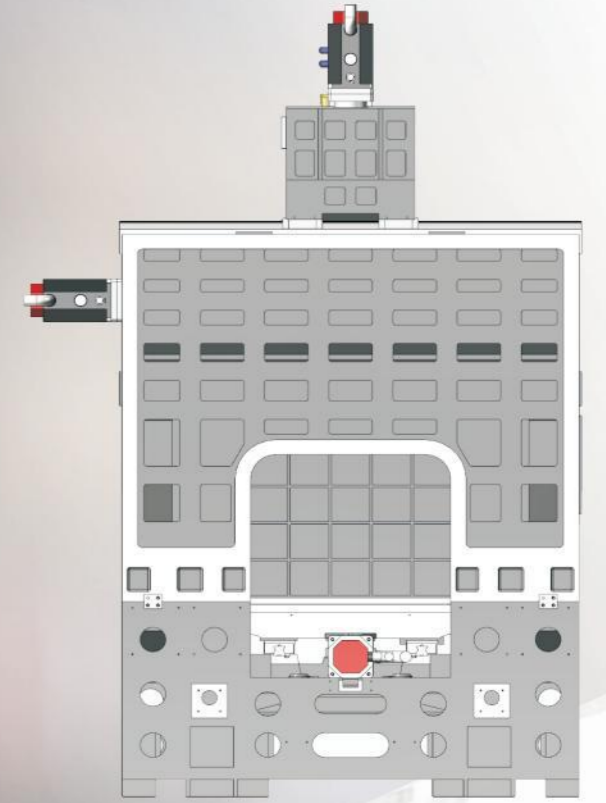
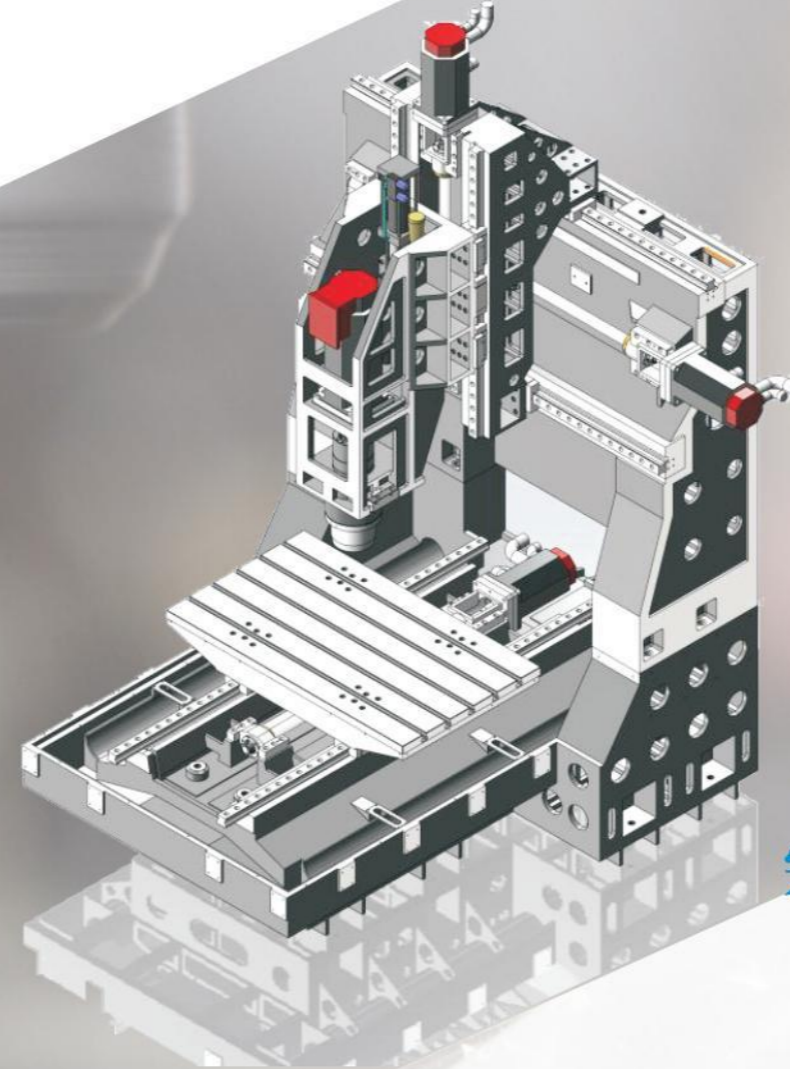
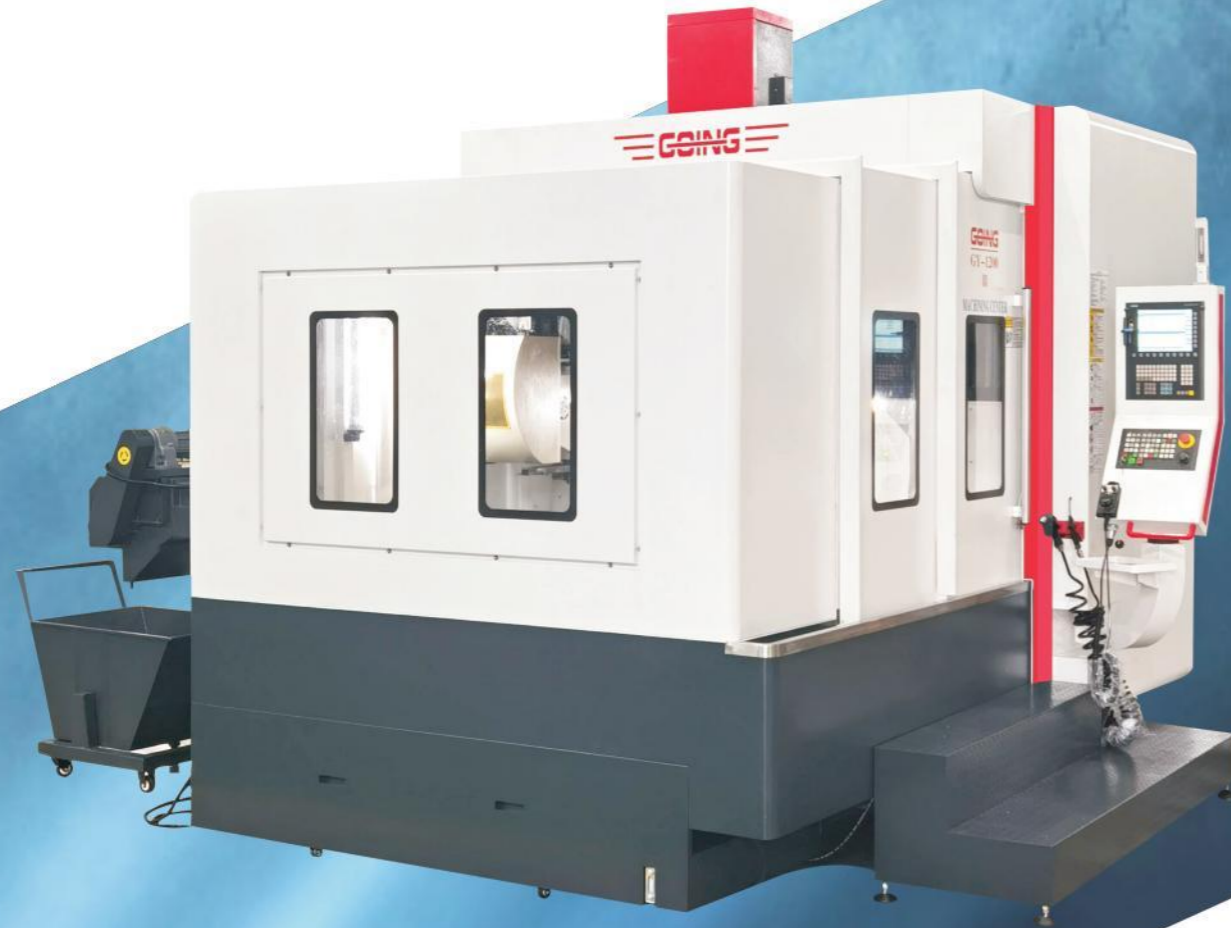


高速加工機

High Speed Processing Machine

徹底表露高速加工的不凡風範

Complete Disclosure Of High Speed Machining
Extraordinary Style



**獨特強悍的機械結構
完美體現高剛性持久穩定性**

The unique mechanical structure
Perfect embodiment of
high rigidity and lasting stability

精密模具加工實現高精、高速、高效的完美體現

Precision mold processing
To achieve high precision, high speed, high efficiency of the perfect embodiment



龍門加工中心

Longmen Processing Center



細致入微的設計，嚴謹的制造工藝

Meticulous design, rigorous manufacturing process

確保高精、高速、高效、持久穩定

Ensure high precision, high speed,
high efficiency and lasting stability



獨特強悍的機械結構

**完美體現高剛性，
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The unique mechanical structure
Perfect embodiment of high rigidity
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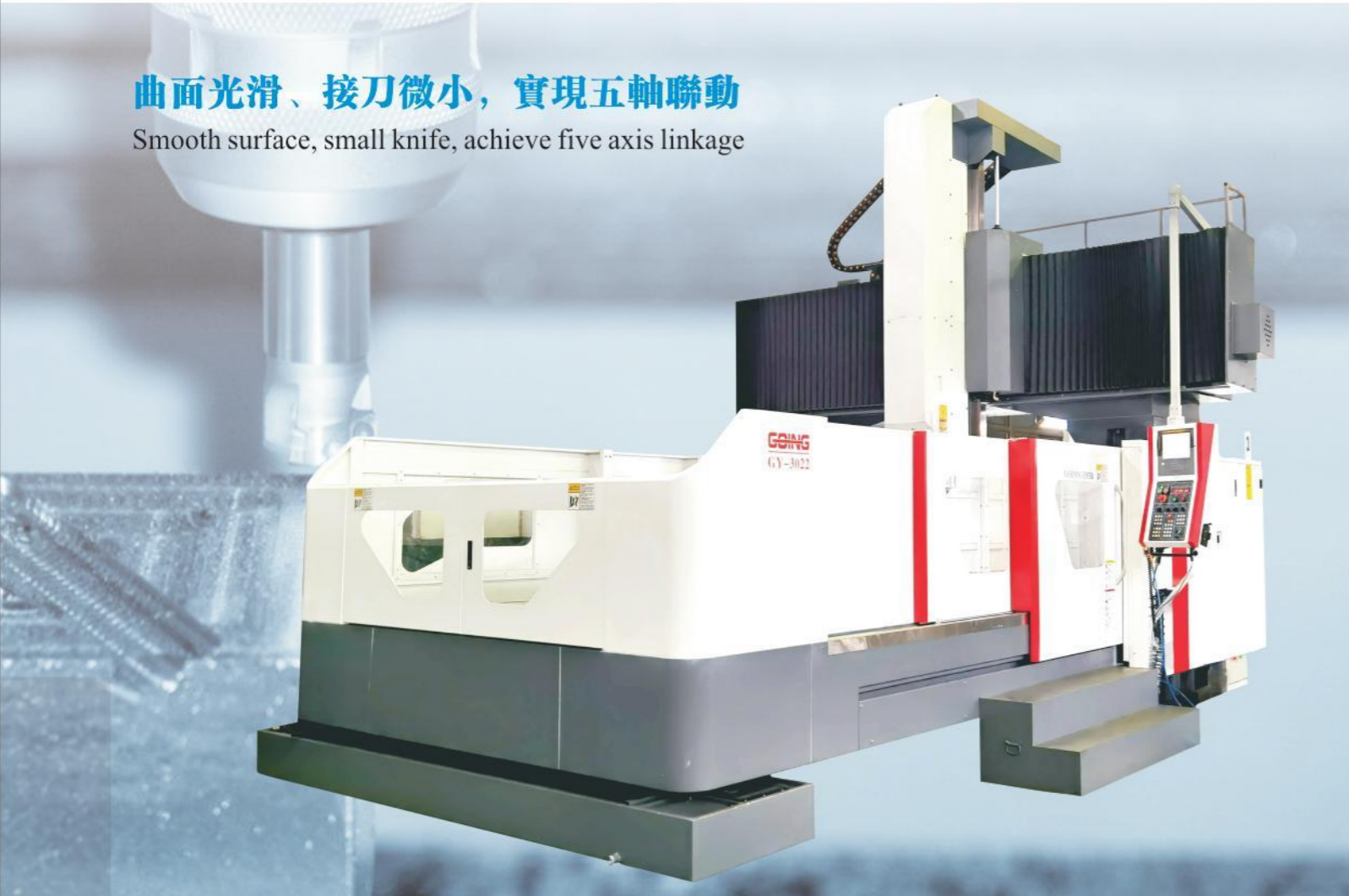


龍門加工機

Gantry processing machine

曲面光滑、接刀微小，實現五軸聯動

Smooth surface, small knife, achieve five axis linkage



龍門加工機特點

Gantry processing machine features

高轉速、定位精準聯動精度高

High speed, precise positioning & high linkage accuracy

獨特強悍的機械結構
精密設計的機械結構、
高剛性、持久穩定
採用高級納米鑄造而成

Unique strong welding mechanical structure
Precise design of mechanical structure,
high rigidity, lasting stability
It is made of high grade natrium rice



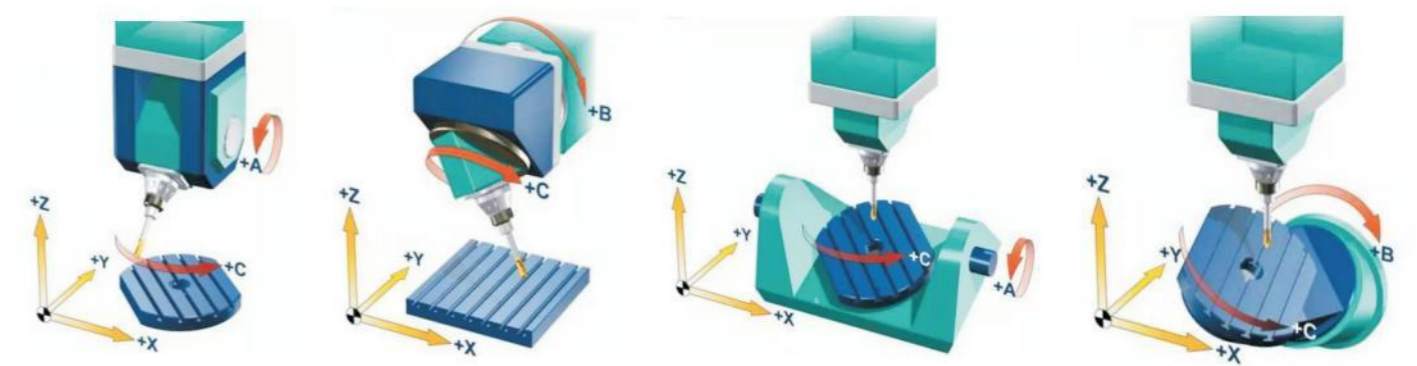
選配件角度頭

Process actions and casting



五軸加工示意圖

Five axis parts



感恩

——做人之基

GOING
高懿精機

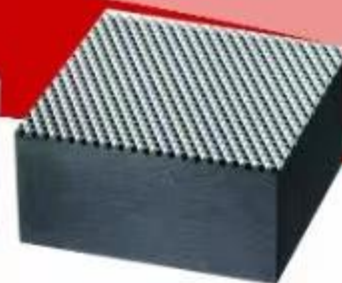
钻攻雕铣 无所不能
德國技術 · 匠心智造

心存敬畏，感恩于心



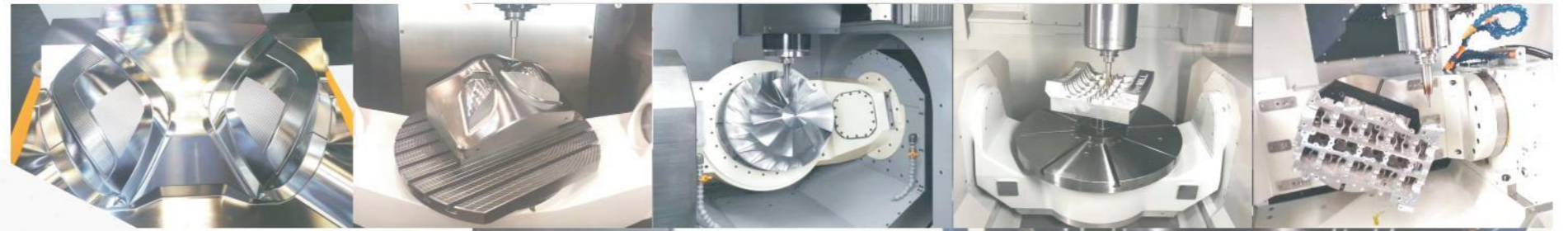
五軸加工機

獨特強悍的機械設計結構
適用於曲面光滑、接刀微小、
五軸聯動、葉輪曲面、曲錢、
萬向加工。



**機械精度來自於剛性
機械的結構強度確定剛性**

Mechanical precision comes from rigidity
The structure of the mechanical strength of rigidity is determined



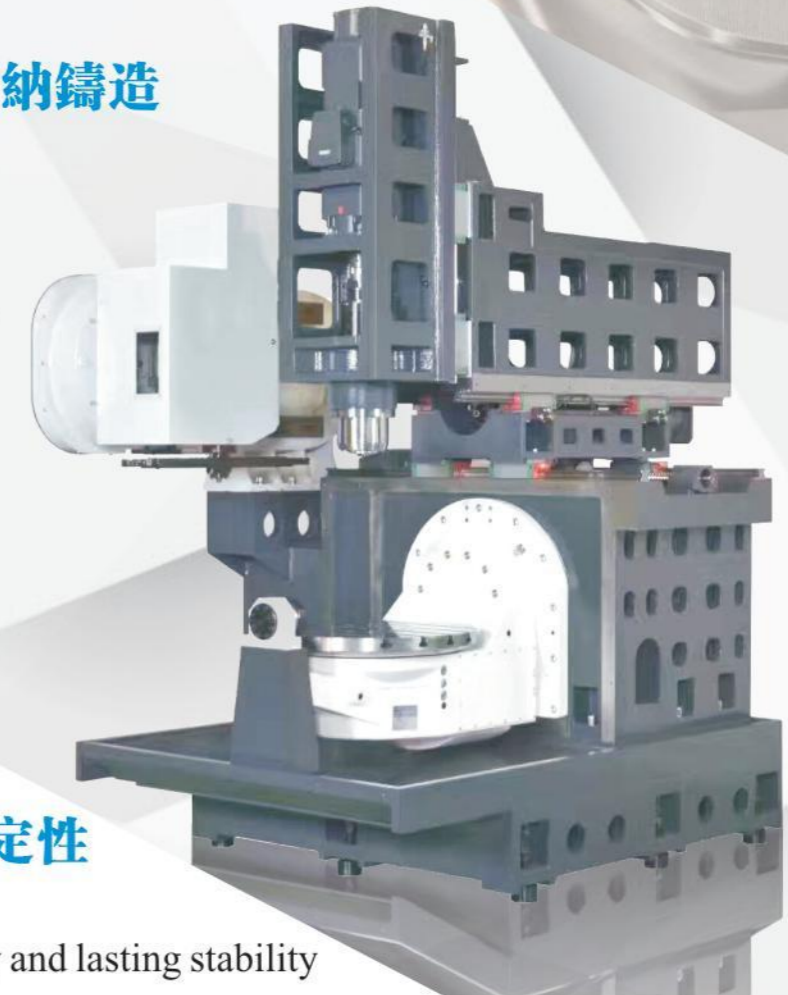
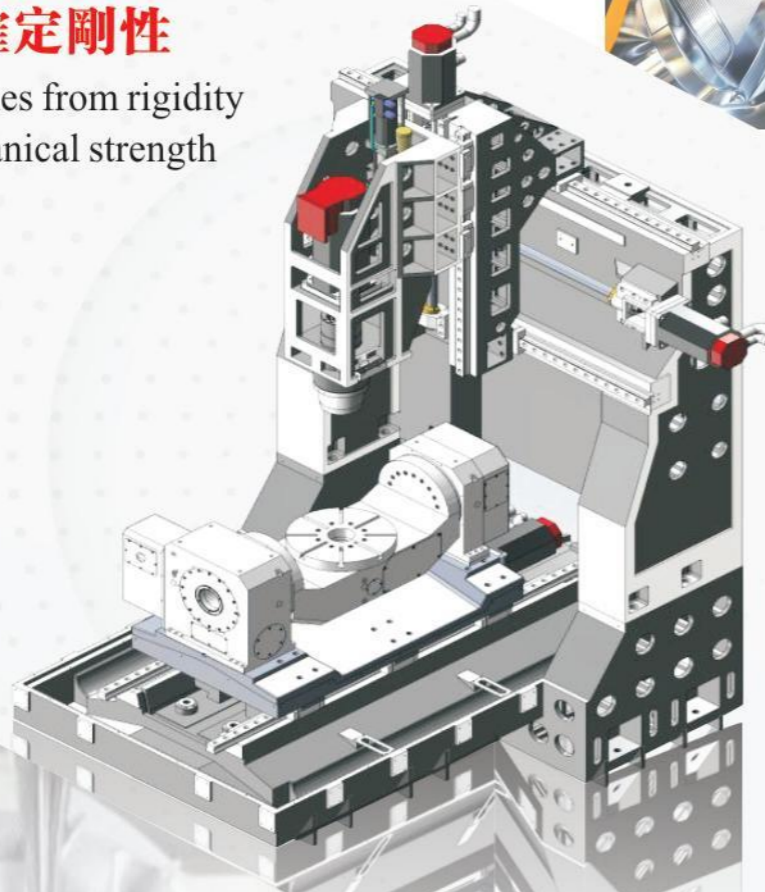
高轉速、定位精準聯動精度高
High speed, precise positioning & high linkage accuracy

**精心設計的機械結構高剛性、
長期穩定性
機械結構完全採用高級米漢納鑄造**

Well-designed mechanical structures
with high rigidity,
Long-term stability
The mechanical structure is entirely made
of advanced Meehana casting

**獨特強悍的機械結構
完美體現高剛性 持久穩定性**

The unique mechanical structure
Perfect embodiment of high rigidity and lasting stability

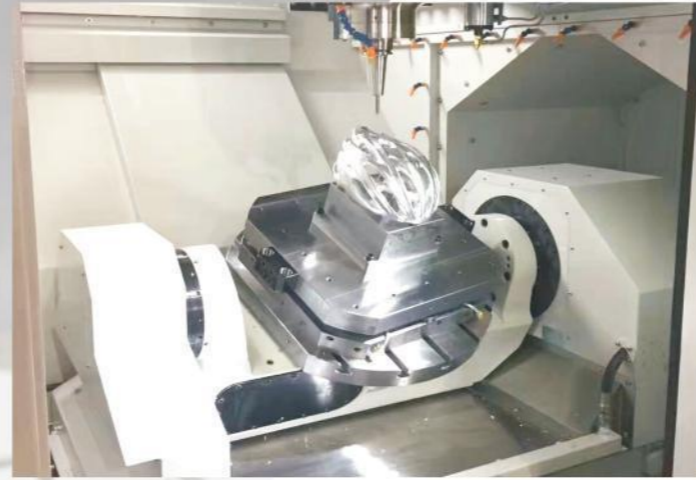
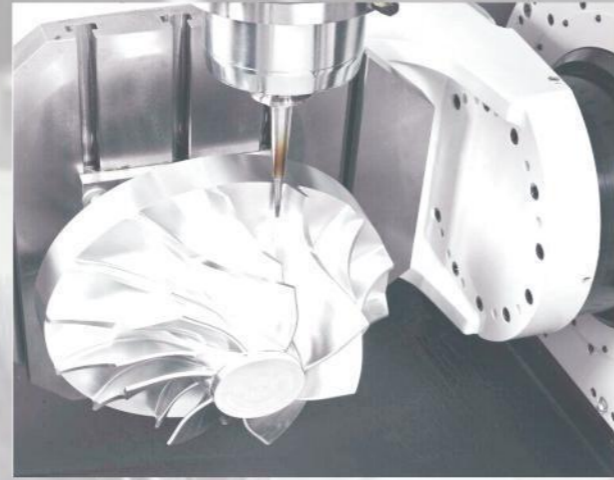
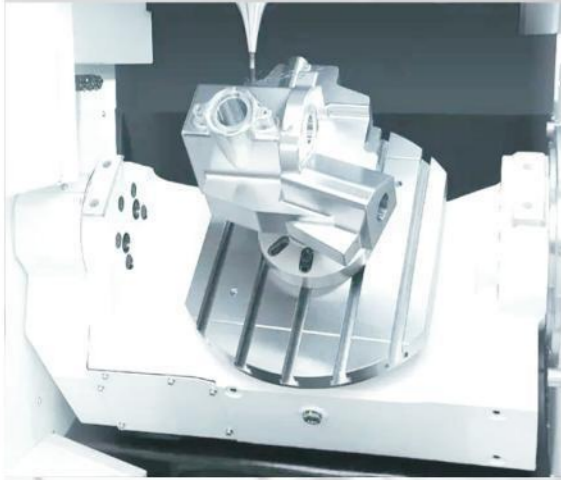


精度模具、零件、3C、5G件加工致勝利器

Precision mold, parts, 3C, 5G pieces of processing to win

高端葉輪加工 / 曲面、曲綫、萬向加工

High-end impeller processing / curved surface, curve, universal processing



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

嚴格檢驗 性能保證

Strictly check the performance guarantee

激光雷射檢驗

Laser inspection

定位精度=1.180 μm VDI3441

Positioning accuracy=1.180 μm VDI3441

循圓檢測

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

循圓量測 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 (人工鏟花)
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)



高精、高速、高效的完美體現

The perfect embodiment of high precision, high speed and high efficiency

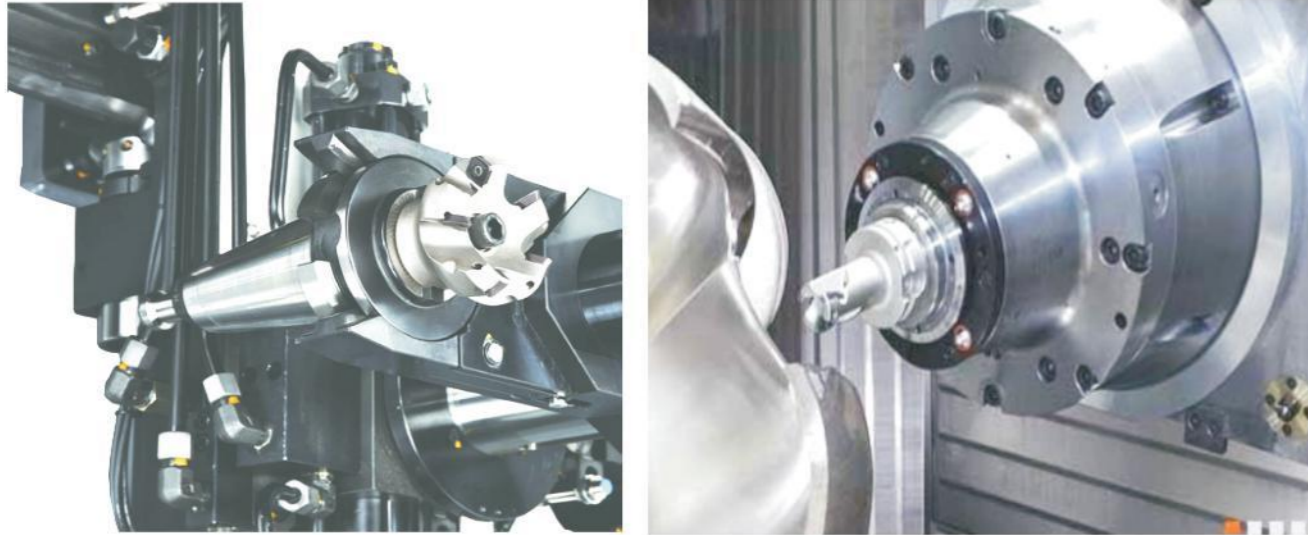


徹底表露高速加工的不凡風範

Complete disclosure of high speed machining extraordinary style

復合加工機

Composite Processing Machine



細致入微的設計，嚴謹的制造工藝

Meticulous design, rigorous manufacturing process

確保高精、高速、高效、持久穩定

Ensure high precision, high speed, high efficiency and lasting stability



獨特強悍的機械結構 完美體現高剛性，持久穩定性

The unique mechanical structure Perfect embodiment of high rigidity and lasting stability



高精密加工 精益求精

High precision machining keeps improving



航空航天、汽車、醫療、能源、
交通建設、農業、模具、3C產業

Aerospace, automotive, medical, energy,
transportation construction, agriculture, mold,
3C industry

嚴格檢驗 性能保證

Strictly check the performance guarantee

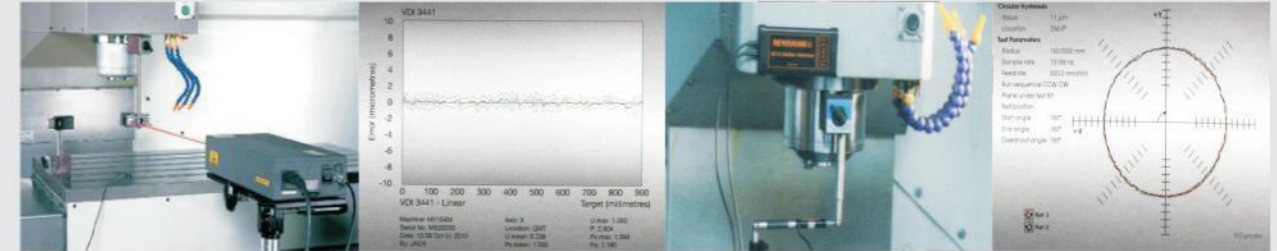
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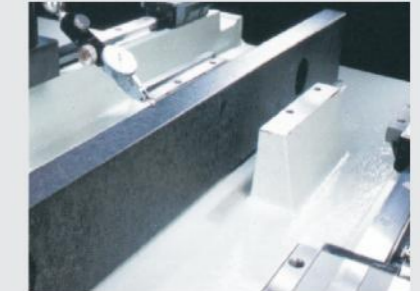
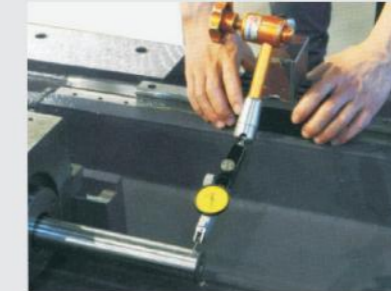
Keep a close eye on every detail

品質與精度 The quality and the precision

確保精度 (人工鏟花)
To ensure the accuracy of (Artificial scraping)

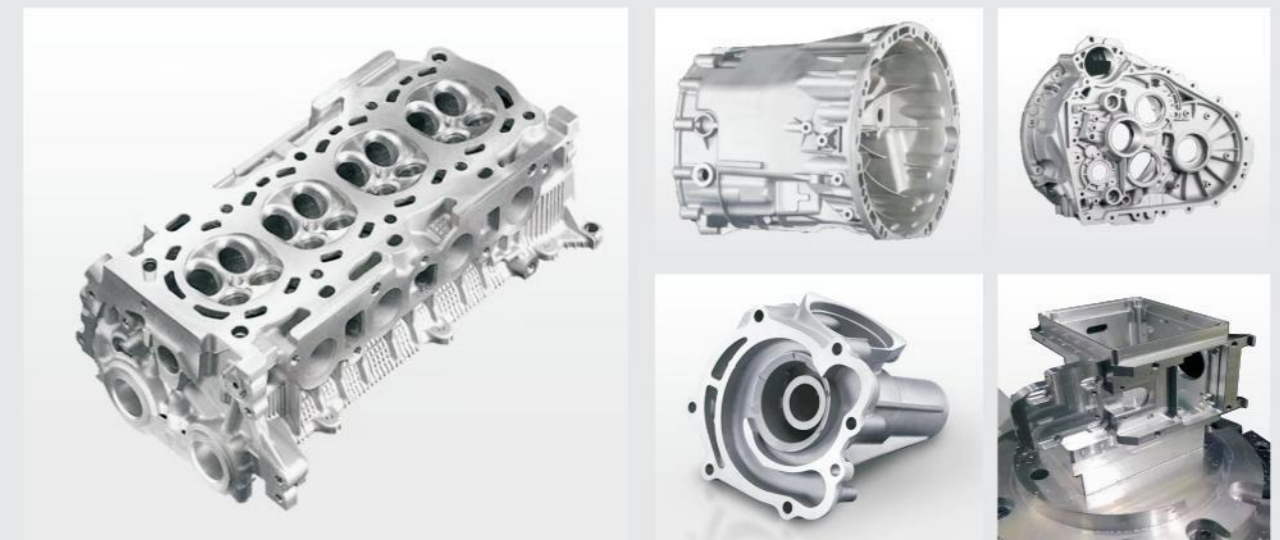
滑軌與螺桿 (同心與平行度)
Slides and screw (concentric and parallel)

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



追求效率及加工品質是致勝的關鍵

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



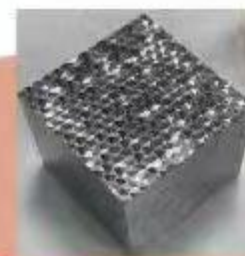
高精 高速 高效

GOING 站攻雕铣 无所不能
高懿精機 德國技術 · 匠心智造



直綫電機高速機

德國西門子系統
德國海德漢光柵
德國力士樂綫軌
德國力士樂直綫電機
HSK E50/30000rpm主軸



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

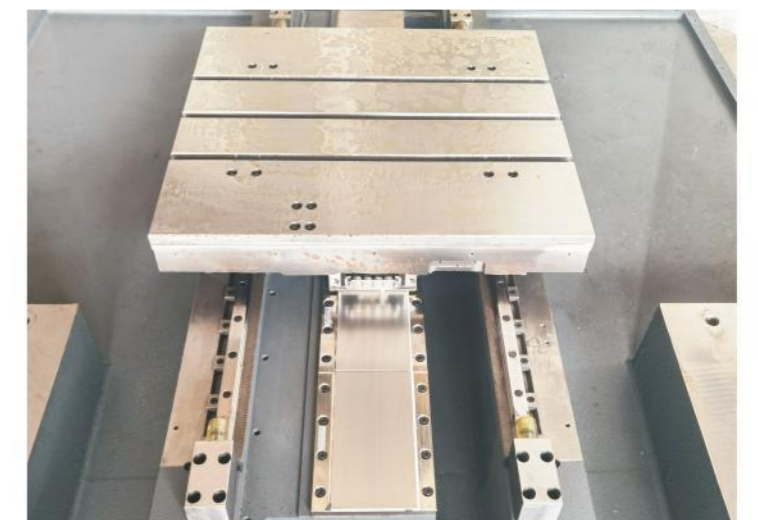
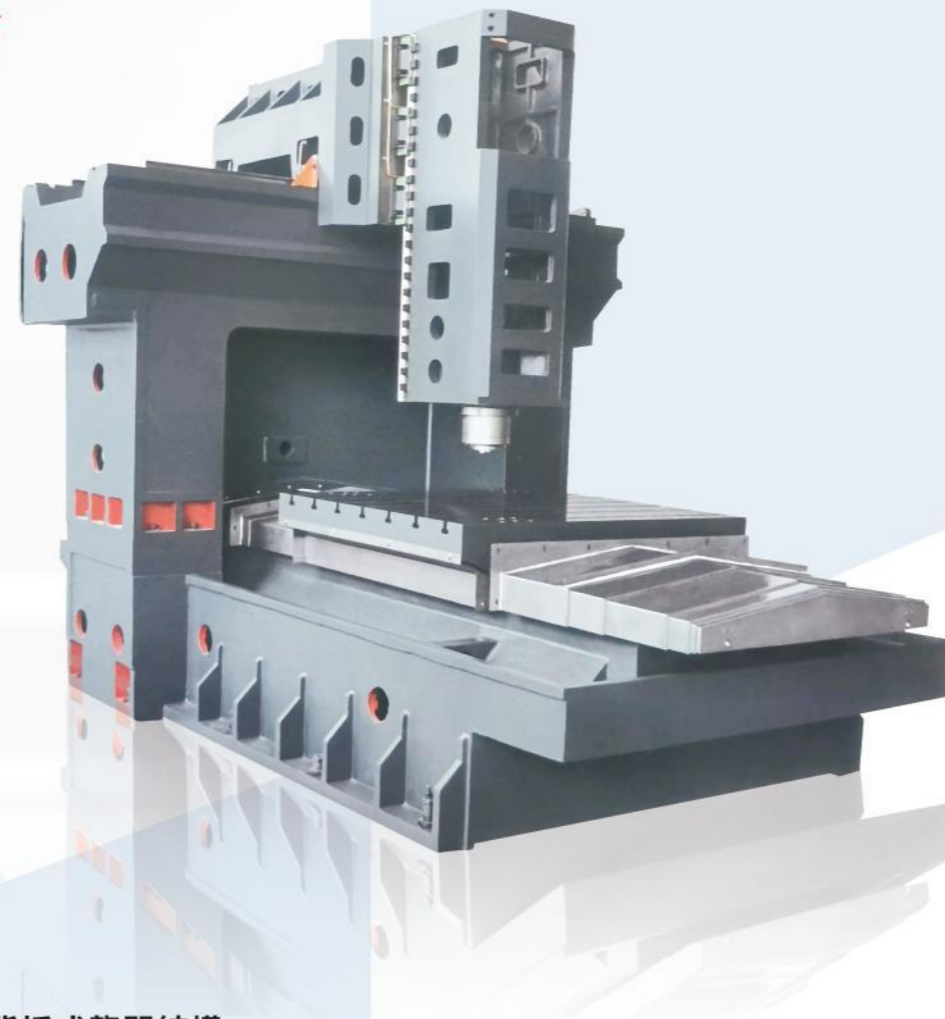
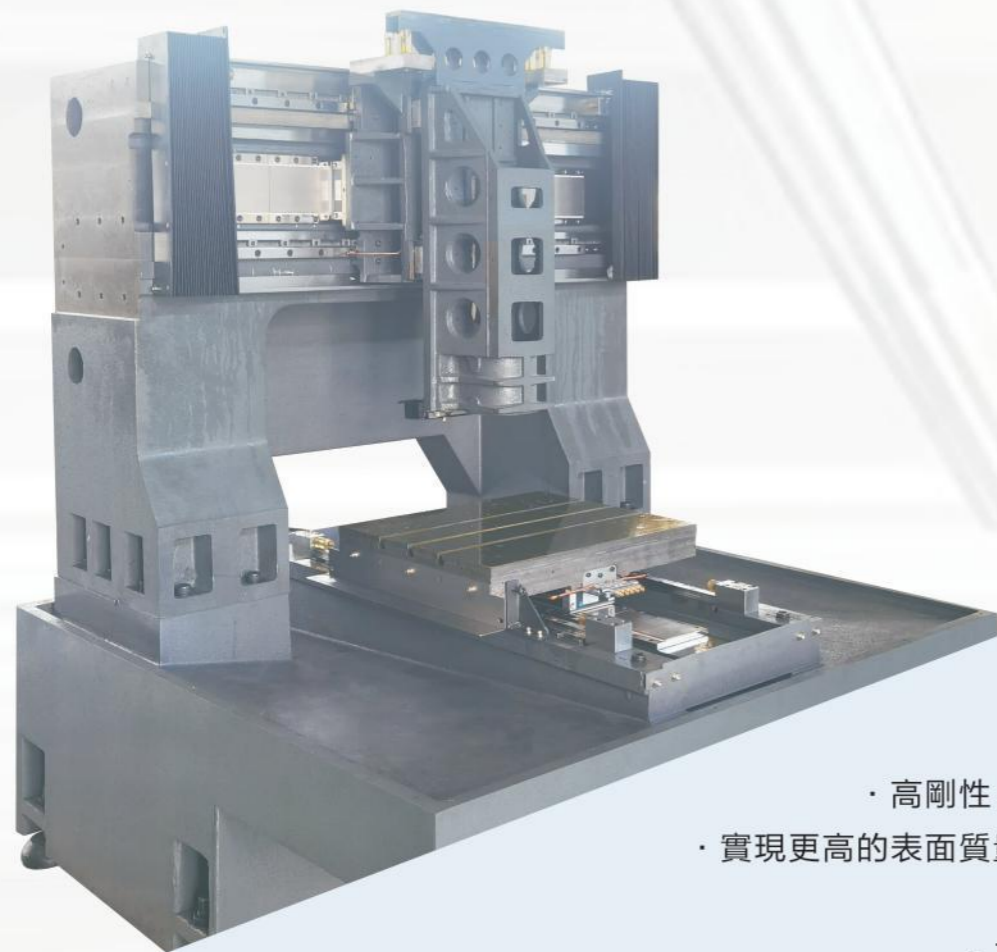
高精、高速、高效的完美體現

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

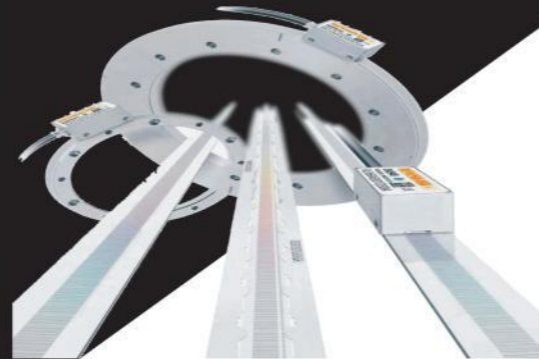
The top of the equipment

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

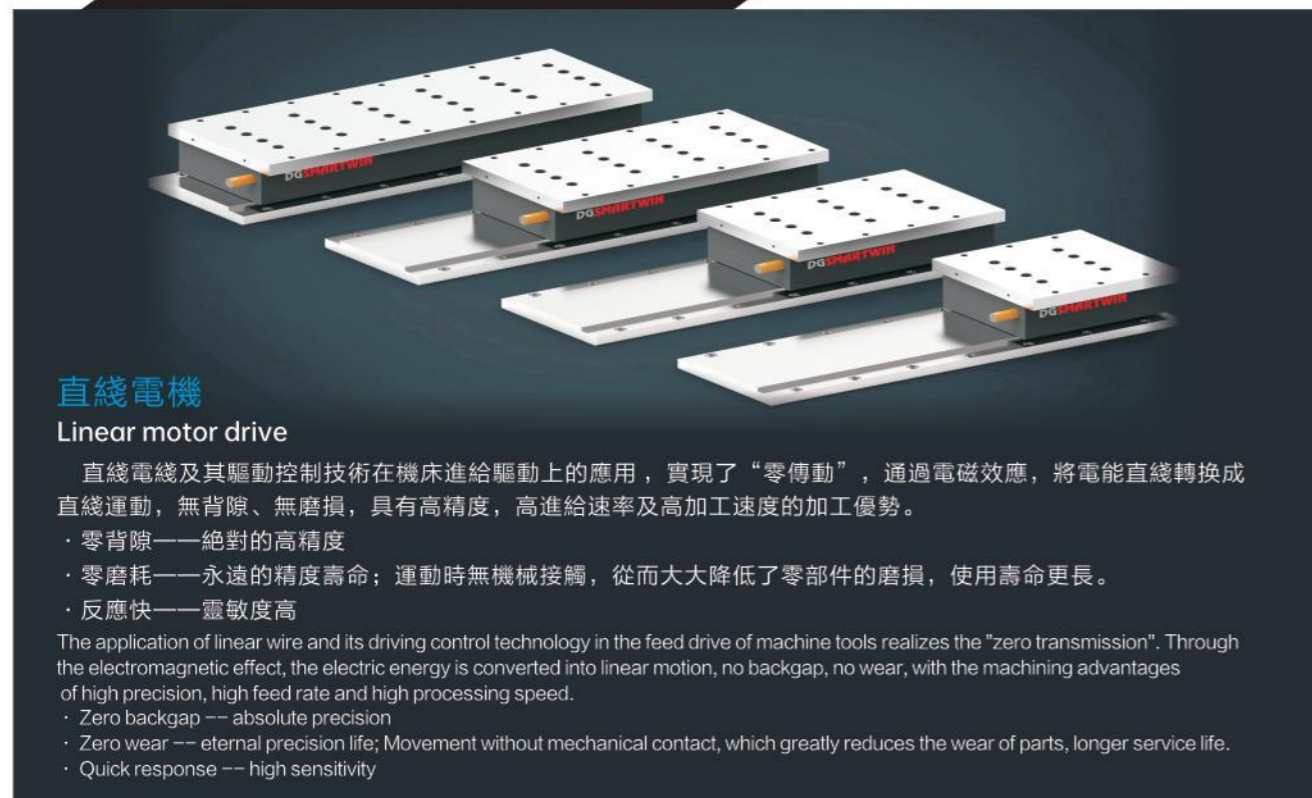
Complete technical scheme

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.



直綫電機

Linear motor drive

直綫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，將電能直綫轉換成直綫運動，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

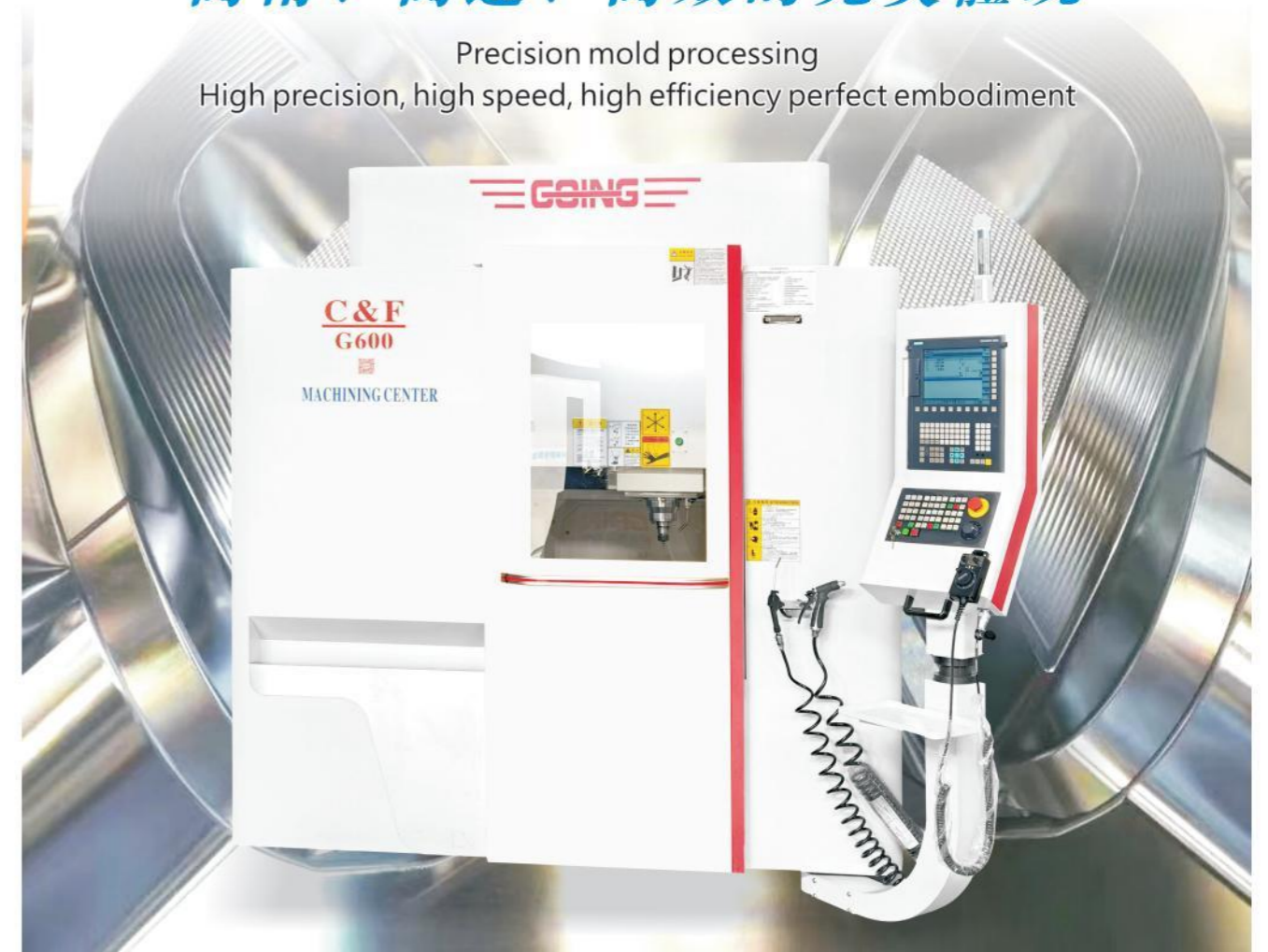
快速換刀 Quick tool change



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



匠心

——精益求精

GOING
高懿精機

钻攻雕铣 无所不能
德國技術 · 匠心智造

獨具匠心，精益求精



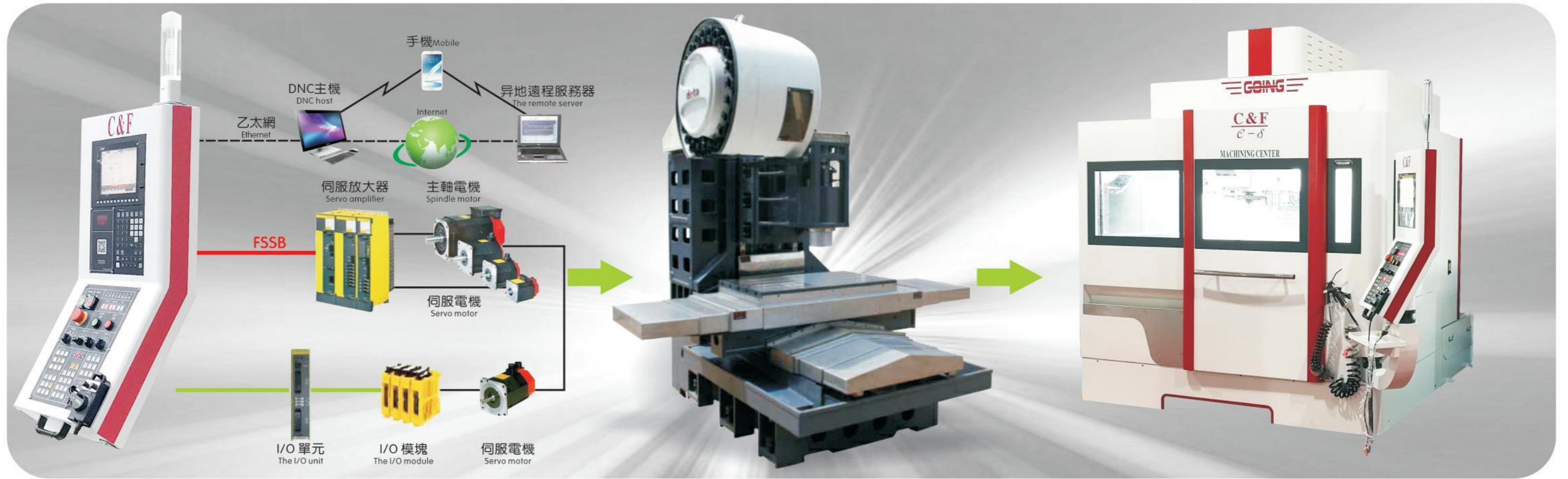
精密模具加工機

高精、高速、高效的完美體現
適用於精密模具、汽車模具、
3C、5G、航空航天等精密加工
過



控制系統與機械融為一體

The control system with high precision



提供專業的技術產品與整體解決方案

Provide technical products and professional solutions



石墨加工機 G-600

Graphite Processor G-600

X軸 Axis: 600(mm)
Y軸 Axis: 500(mm)
Z軸 Axis: 250(mm)

立式加工機 GY-1100

Vertical Machining GY-1100

X軸 Axis: 1100(mm)
Y軸 Axis: 600(mm)
Z軸 Axis: 600(mm)

五軸加工機 CF-400

Five-axis Processing Machine CF-400

X軸 Axis: 1100(mm)
Y軸 Axis: 500(mm)
Z軸 Axis: 600(mm)

複合加工機 CF-500

Compound Machine CF-500

X軸 Axis: 1100(mm)
Y軸 Axis: Z2臥頭Lying head 450(mm)
Z1臥頭Lying head 600(mm)
Z軸 Axis: Z2臥頭Lying head 600(mm)

臥式加工機

Horizontal Processing Machine

X軸 Axis: 1100(mm)
Y軸 Axis: 800(mm)
Z軸 Axis: 1100(mm)

機械精度來自於剛性 機械的結構強度確定剛性

From the rigid mechanical precision
To determine the strength
of mechanical structure rigidity

立柱加寬加強 (持久)

Column broadening strengthen (permanent)
立柱不變形
Vertical deformation
安裝刀庫立柱不受外力影響
According to the magazine column is not
affected by external force

Z軸無配重 (穩定)

Z axis without balance (stability)
快速位移時穩定
Steady and rapid displacement

立柱為T型結構

The column is a T type structure
剛性更強 (獨特)
More rigid (unique)

整體機座加寬加強 (強悍)

Strengthen the overall base broadening
(strong welding)

獨特強悍的機械結構

The unique mechanical structure

精心設計的機械結構高剛性、長期穩定性

1、主要機械結構體完全採用高級米漢納鑄造制成，經壓力消除，再配合合理化的肋骨強化設計，無機體變形之虞。

2、立柱底部加寬設計，配合箱型結構，於高速切削時展現最佳穩定性。

3、三軸配置精密綫性滑軌，進給速度快，動作穩定。

4、綫軌跨距寬闊，提升機械穩定性。

Careful design of the mechanical structure of high rigidity, long term stability
1、The main mechanical structure completely Meehanite casting, made by pressure Elimination, coupled with rationalization of rib reinforced design, no deformation of the body at risk.

2、The bottom of the column widening design, with box-type structure, at the time of high-speed cutting exhibition Now the best stability.

3、Triaxial configuration precision linear rails, feed speed, stable operation

4、Line rail span wide, enhance the mechanical stability



鑽Miling

攻Attack

雕Craving

銑Drilling

站攻雕銑 无所不能
Roughnecks engraving and milling omnipotent

品質與精度 The quality and the precision

確保精度 (人工鏟花)
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)



徹底表露高速加工的不凡風範
Complete disclosure of high speed machining extraordinary style

精密零件、模具、3C零件加工致勝利器

Precision parts, mould parts processing, 3C edge tool

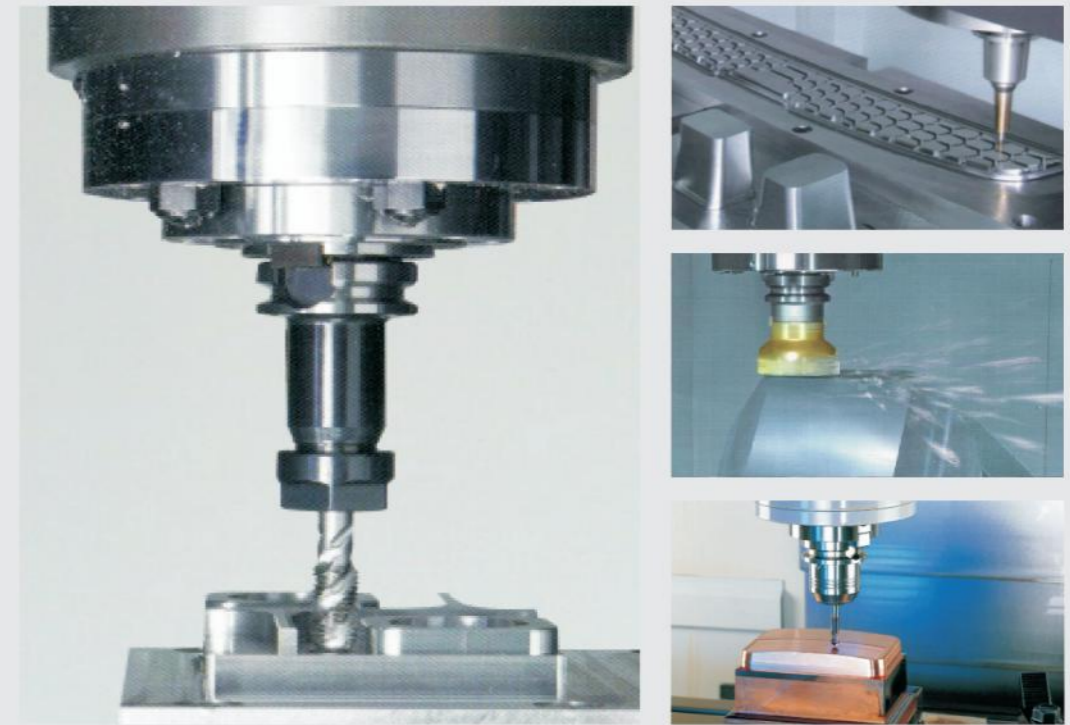


曲面光滑、接刀微小、實現五軸聯動
Smooth surface, small knife, realize five-axis linkage

高端行業加工：曲面、曲綫、萬向加工
High-end industry processing: surface, curve, universal processing

高精、高速、高效的完美體現

The perfect embodiment of high precision, high speed, high efficiency



追求效率及加工品質是致勝的關鍵

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





頂級的裝備

The top of the equipment



刀具檢測 (選配)
對加工時刀具損耗的檢測
(確保工件精度)
The tool detection (optional)
The detection of tool wear during machining
(to ensure the accuracy of the workpiece)

成套技術方案

Complete technical scheme



懸臂五軸
Cantilever five-axis



旋轉主軸頭
Rotating spindle head

BT40/24T刀臂式刀庫 (選配)
快速換刀時間為0.85秒
BT40/24T knife (optional)
Rapid tool change time of 0.85 seconds



ATC自動門 (選配)

刀庫及刀具在加工時產生水霧、油霧、
碎屑的防護
ATC automatic doors (optional)
Protection of water mist, oil mist, the knife and tool
fragments produced in the process.



自動化解決方案

Automation solution



桁架式機械手
Truss manipulator



地軌式機械手
Earth-rail manipulator



自動化機械手
Automatic manipulator

共贏

——誠信之本

GOING
高懿精機

站攻雕銑 无所不能
德國技術 · 匠心智造

攜手共進，合作共贏



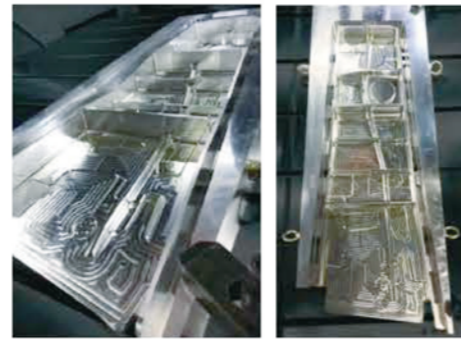
天車式五軸加工機

精心設計的機械結構高剛性，持久穩定。

適用於航空航天、汽車、醫療、新能源、交通建設和農業。

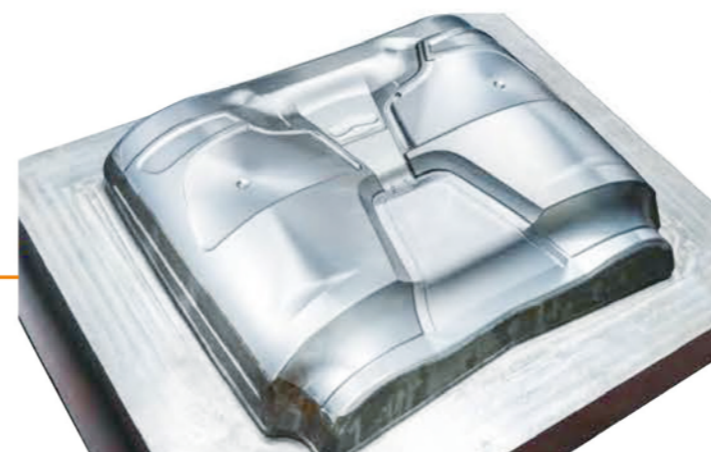
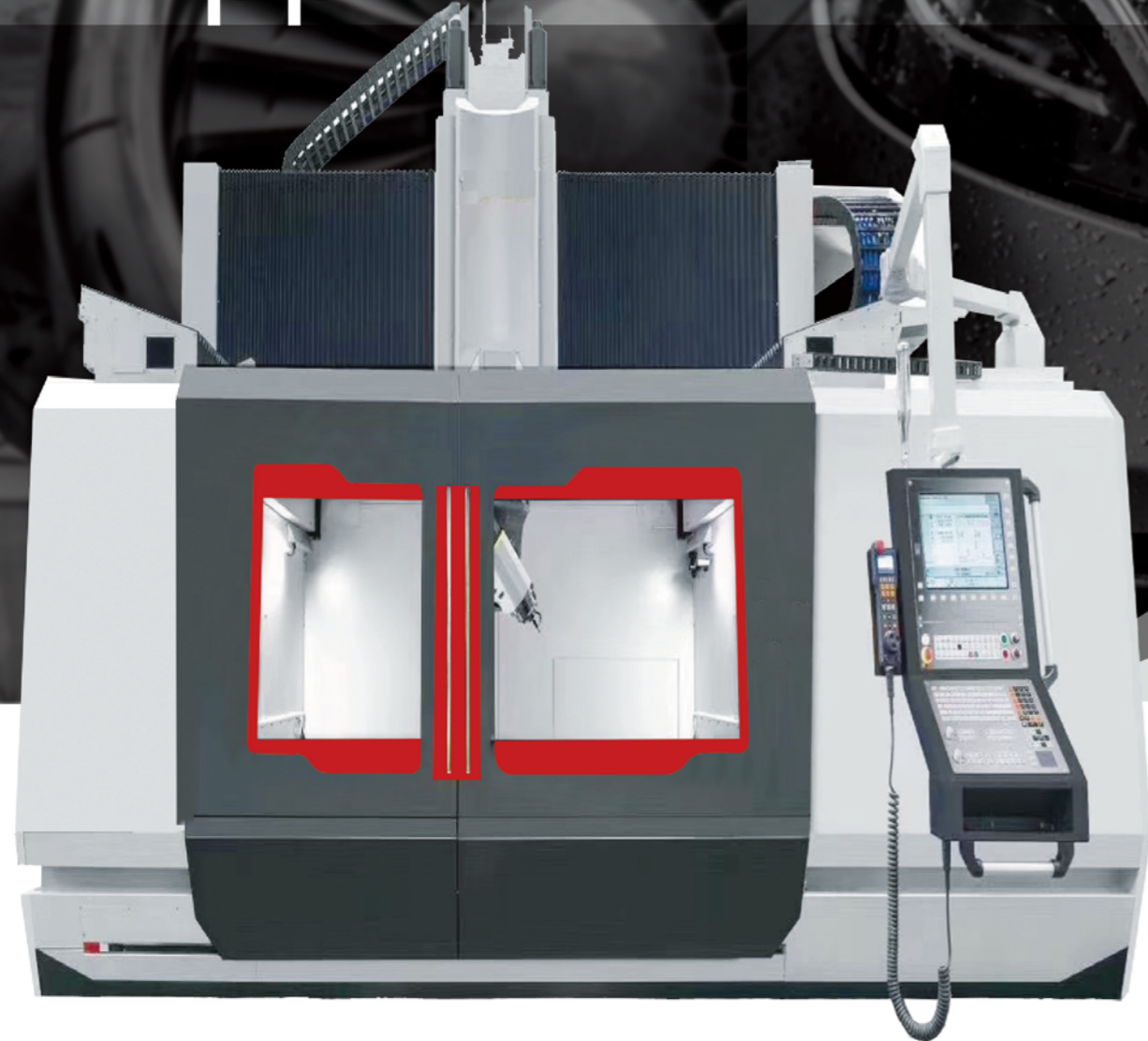
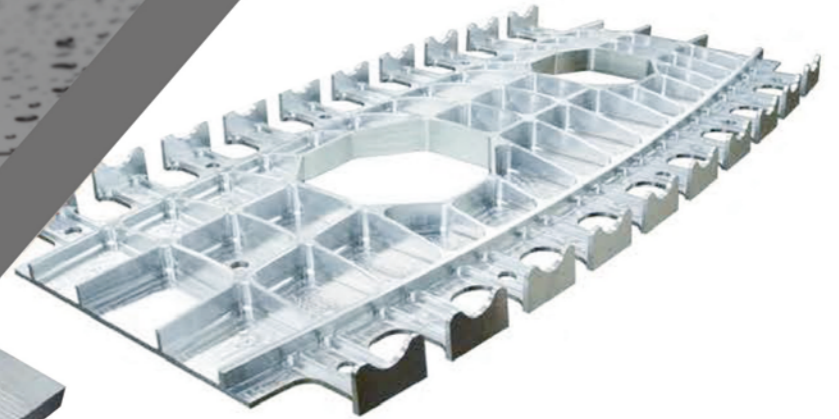


GOING · CF



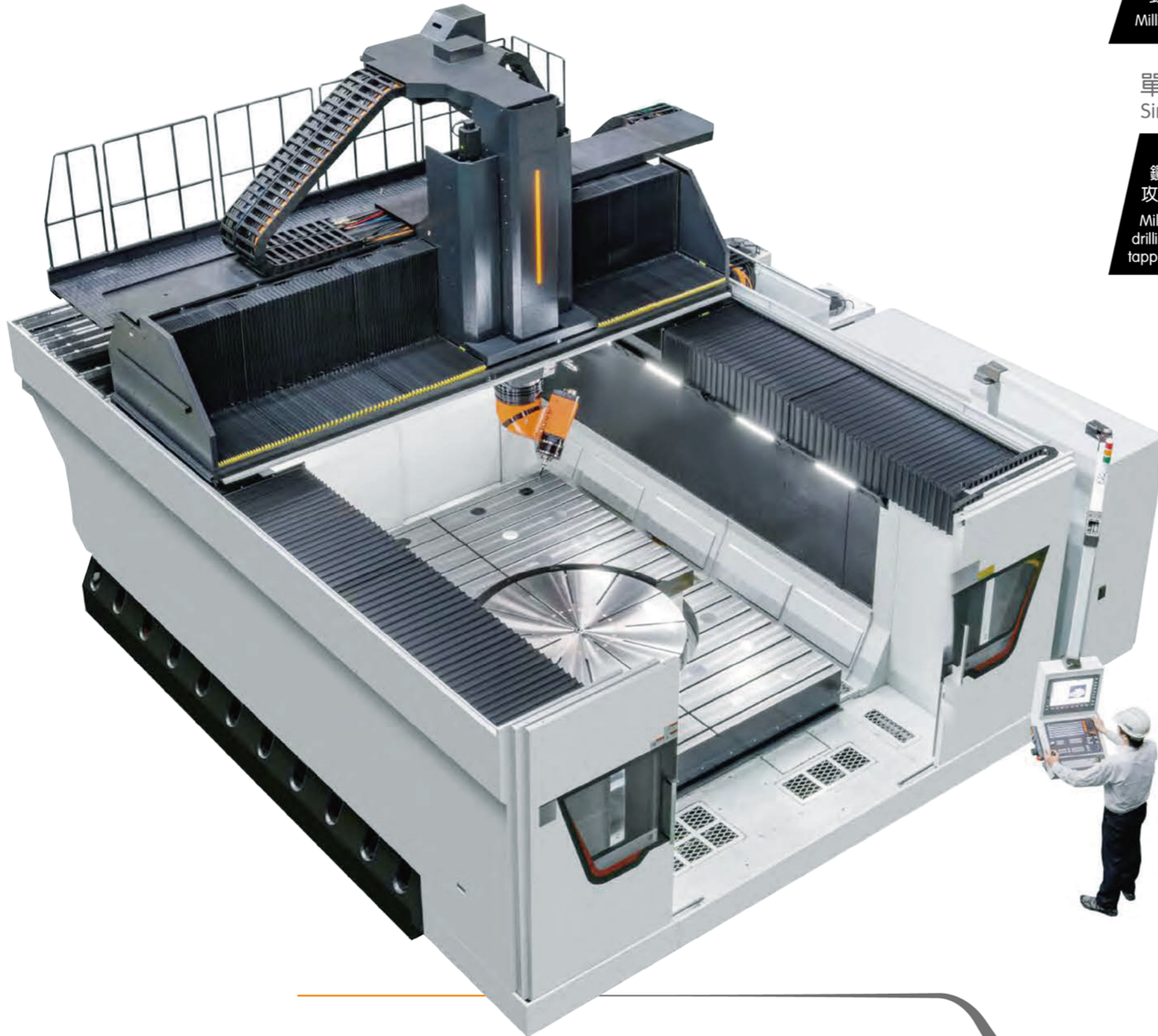
安全完美的設計
Safe and perfect design

Cutting Application



轉台式工作台(選配)

Rotary table (optional)

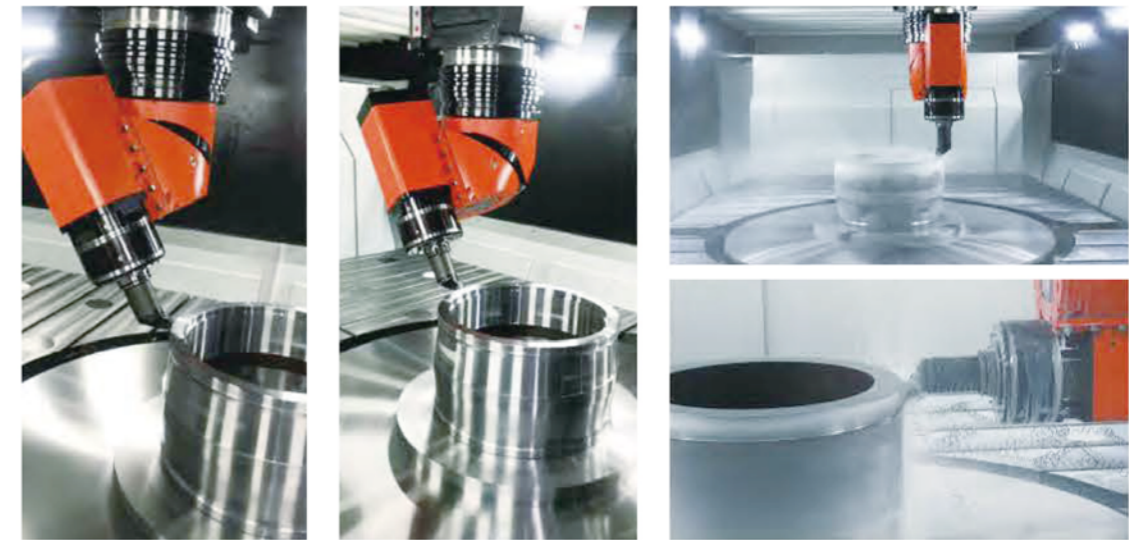


GOING 系列 Series ▶ 1部機台4個步驟 1 machine 4 steps



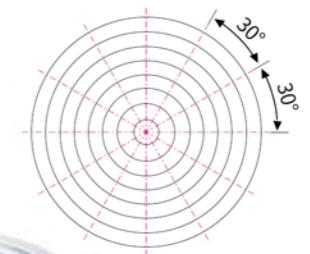
單一功能加工機 ▶ 3部機台8個步驟

Single function processing machine ▶ 3 machines 8 steps



高速高扭力轉台 High speed high torque turntable

- 最大載重5,000kg
- 轉台尺寸Φ1,200/Φ1,500/Φ1,800/Φ2,200mm
- 內藏式D.D.馬達驅動
- 光學尺旋轉定位
- 最小分度0.001°
- 定位精度10", 重複定位精度6"
- Maximum load 5,000kg
- Turntable size Φ1,200/Φ1,500/Φ1,800/Φ2,200mm
- Built-in D.D. motor drive
- Optical ruler rotation positioning
- Minimum division 0.001°
- Positioning accuracy 10", repeated positioning accuracy 6"



高結構剛性和動態切削表現 High structural rigidity and dynamic cutting performance

X/Y軸 X-axis and Y-axis

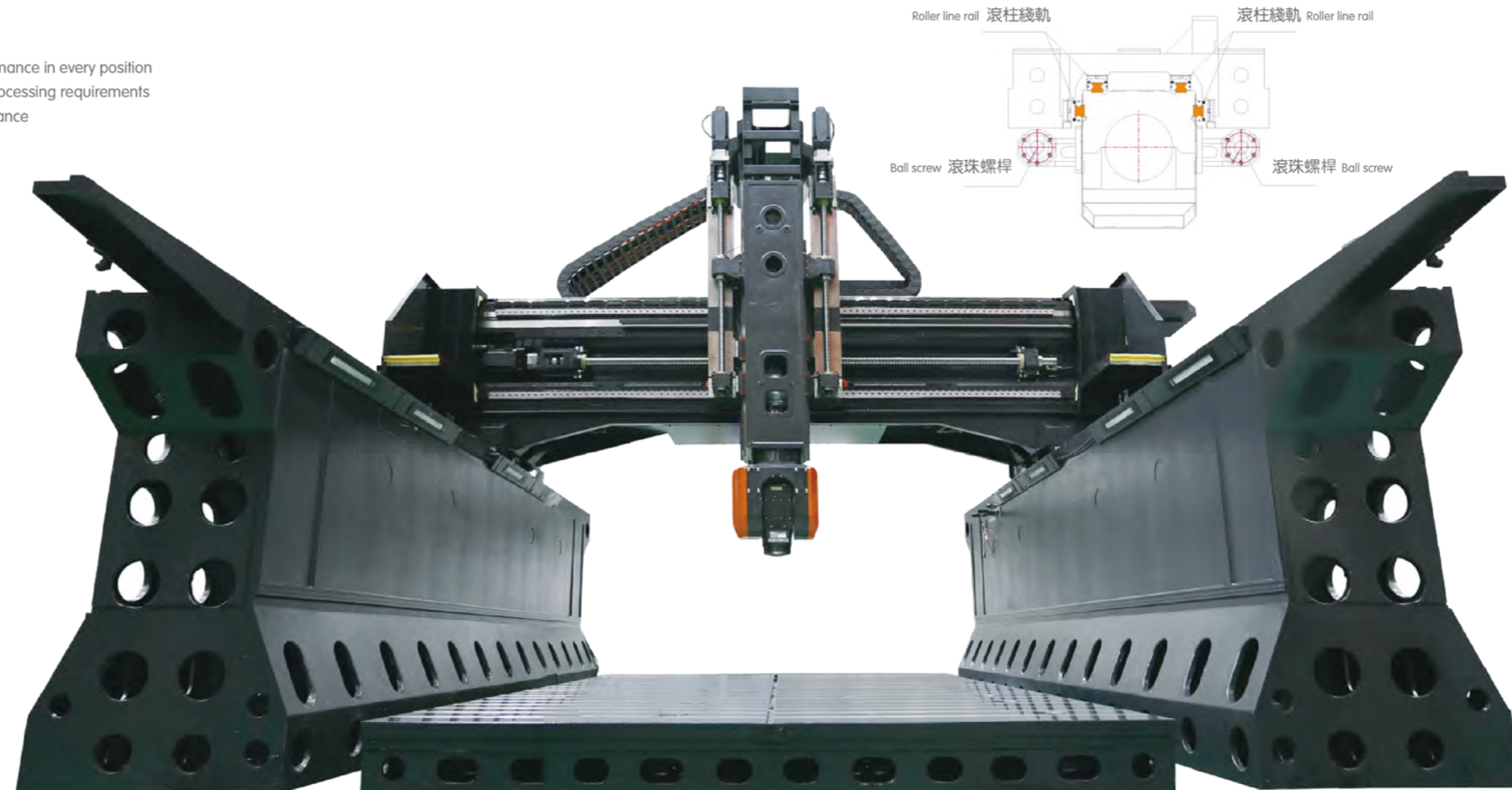
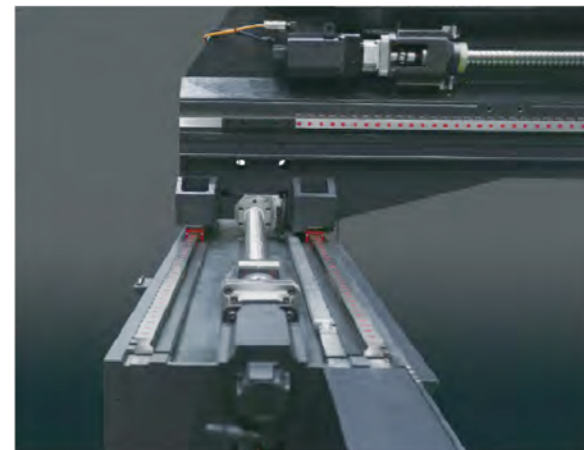
- 直結式傳動搭配滾柱式綫軌設計
- 雙滾柱綫軌支撐，提供最佳動態穩定性
- 全閉式光學尺，提供最佳定位精度P0.01mm
- XY軸螺桿冷卻裝置，確保最佳進給精度
- 快速進給速率32m/min
- 切削進給速率20m/min
- X軸特殊螺桿支撐裝置，可供每一位置皆有最好的精度表現
- 針對中、大型及超大型工件加工需求設計落地型工作臺
- 人字型立柱設計提供最佳的穩定性、抗震能力
- Straight-knot drive with roller rail design
- Double roller line rail support for optimal dynamic stability
- Fully closed optical ruler, providing the best positioning accuracy P0.01mm
- XY shaft screw cooling device ensures optimal feed accuracy
- Fast feed rate 32m/min
- Cutting feed rate 20m/min
- The X-axis special screw support device allows for the best precision performance in every position
- Design floor type worktable for medium, large and super large workpiece processing requirements
- Herringbone column design provides optimal stability and earthquake resistance

螺桿冷卻系統 Screw cooling system

- X/Y軸滾珠螺桿
- 采中空冷卻設計
- 以抑制螺桿溫升與熱變形
- 確保三軸進給的順暢性及定位精度
- X/Y axis ball screw
- Hollow cooling design
- To inhibit the temperature rise and thermal deformation of the screw
- Ensure smooth three-axis feed and positioning accuracy

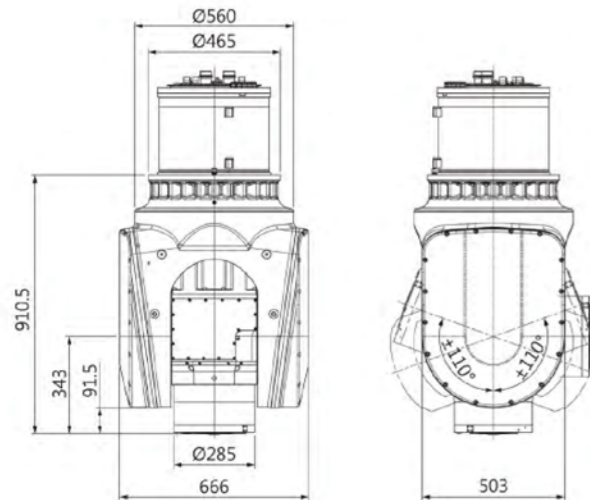
Z軸 Z-axis

- 雙伺服馬達、雙滾珠螺桿傳動
- 無配重設計，提升響應速度
- 全閉式光學尺，提供最佳定位精度
- 配置四滾柱綫軌，提供最佳剛性、精度
- 快速進給速率20m/min
- 切削進給速率20m/min
- Double servo motor, double ball screw drive
- No counterweight design, improve response speed
- Fully closed optical ruler for optimal positioning accuracy
- Equipped with four roller line rails to provide optimum rigidity and accuracy
- Fast feed rate 20m/min
- Cutting feed rate 20m/min



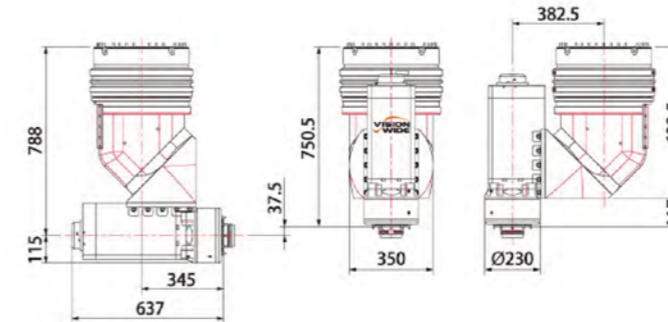
大扭力鈦合金專用 High torque titanium alloy special

- 高扭力主軸可提升加工效能
- 內藏式主軸搭配直結式B/C軸
- 長鼻端主軸設計，減少干涉區域
- B/C軸旋轉定位精度 ± 5"
- B/C軸採雙叉式設計，可提供最佳剛性
- B/C軸油壓剎車定位，利於各定位角度加工
- High torque spindle improves machining efficiency
- Built-in spindle with straight B/C shaft
- Long nose spindle design to reduce interference area
- B/C axis rotation positioning accuracy ± 5"
- The B/C shaft is designed with a double fork for optimum rigidity
- B/C axis hydraulic brake positioning, conducive to the positioning Angle processing

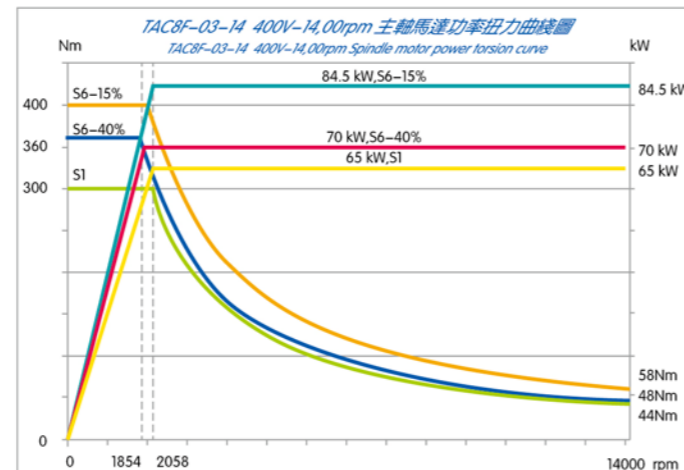


高扭力銑車專用 Special for high torque milling machines

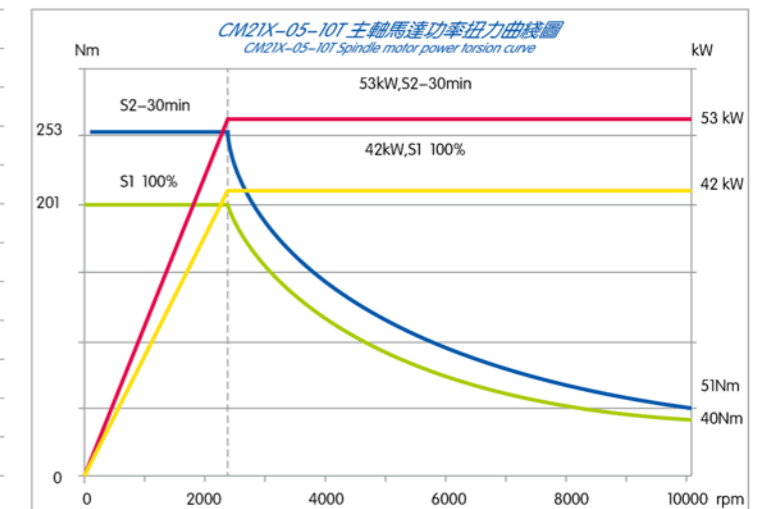
- B/C軸為內藏式之扭力馬達
- 高加速度旋轉
- 45° 度傾角旋轉軸：
B軸主軸鼻端至軸承座最短距以確保最佳剛性
旋轉頭與工件干涉最小化
- 內藏式馬達溫升保護
- B軸高解析度回饋系統
- The special B/C shaft of high torque milling machine is a built-in torque motor
- High acceleration rotation
- 45° Tilt rotation axis:
B axis The shortest distance between the nose end of the spindle and the bearing seat to ensure optimum rigidity
Minimum interference between rotating head and workpiece
- Built-in motor temperature rise protection
- B-axis high resolution feedback system



主軸編號 Spindle number	TAC8F-03-14	
主軸轉速 Spindle speed	rpm	14,000
主軸功率 Spindle power (S1/S6/Max.)	kW	65/70/84.5
主軸扭力 Main shaft torque (S1/S6/Max.)	Nm	300/360/400
刀把規格 Handle specification	- HSK-A100	
	B軸 B-axis	A軸 A-axis
旋轉範圍 Rotation range	°	± 110° ± 360°
最大轉速 Maximum speed	rpm	60 60
定位精度 Positioning accuracy	sec	± 2.5 ± 2.5
額定扭矩 Rated torque	Nm	1,000 1,000
最大扭矩 Maximum torque	Nm	1,500 1,500
夾持扭矩 Clamping torque	Nm	6,000 6,000



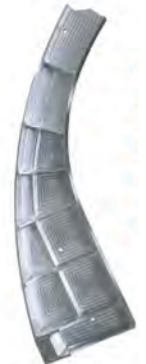
主軸編號 Spindle number	CM21X-05-10T	
主軸轉速 Spindle speed	rpm	10,000
主軸功率 Spindle power (S1/S6)	kW	42/53
主軸扭力 Main shaft torque (S1/S6)	Nm	201/253
刀把規格 Handle specification	- HSK-T100	
	B軸 B-axis	A軸 A-axis
旋轉範圍 Rotation range	°	± 180° ± 270°
最大轉速 Maximum speed	rpm	25 30
定位精度 Positioning accuracy	sec	5 3
重現精度 Reproduction accuracy	sec	3 2
額定扭矩 Rated torque	Nm	1,500 1,500
最大扭矩 Maximum torque	Nm	2,000 2,000
夾持扭矩 Clamping torque	Nm	6,000 6,000



產業加工應用 Industrial processing application

機翼加工
尺寸: L800xW600xH60mm
材質: Al6061

Wing machining
Size: L800xW600xH60mm
Material: Al6061



- 高速移除效能:
- D32仿形銑刀
 - 切深: 10mm
 - 切寬: 32mm
 - 切削進給: 10m/min
 - 移除率: 3,200cc/min
- High speed removal efficiency:
- D32 copy milling cutter
 - Cutting depth: 10mm
 - Cutting width: 32mm
 - Cutting feed: 10m/min
 - Removal rate: 3,200cc/min
- 五軸同動切削:
- D20 端銑刀
 - 傾斜壁面精修
 - 切深: 30mm
 - 五軸同動銑削
 - 肋板頂面精修
 - 端刀底部精修
 - 效率5X
- Five axis simultaneous cutting:
- D20 end mill
 - Inclined wall finishing
 - Cutting depth: 30mm
 - Five axis simultaneous milling
 - Finishing the top of the floor
 - End knife bottom finishing
 - Efficiency 5X

起落架加工
尺寸: 1,100x1,850mm
材質: 鈦合金

Landing gear machining
Size: 1,100x1,850mm
Material: Titanium alloy

- 高效率加工:
- D63玉米銑刀, 挖槽粗加工, 切深30mm, 切寬20mm
 - D50圓鼻銑刀, 面銑精修, 切寬20mm
 - D25端刀 側壁五軸同動精修
 - 對摺精度 0.02
- High efficiency processing:
- D63 corn milling cutter, grooving rough machining, cutting depth 30mm, cutting width 20mm
 - D50 round nose milling cutter, face milling finishing, cutting width 20mm
 - D25 end knife side wall five-axis simultaneous finishing
 - Boring accuracy 0.02



機匣加工
尺寸: D800xH600mm
材質: S45C

Casing machining
Size: D800xH600mm
Material: S45C



- 銑車複合加工:
- 內外壁/左右手車刀應用
 - 定角度車刀內型腔加工, 減少刀長及干涉區域
- 強力主軸, 提供銑削能力:
- D40 面銑加工 高精度切削:
 - D32 爆力鑽
 - D20 端銑刀
- 型面尺寸精度: 10um
孔位定位精度: 0.01m

航太鋁合金零件高速切削
尺寸: L1,425xW680xH70mm
材質: Al6061

High speed cutting of aerospace aluminum alloy parts
Dimensions: L1,425xW680xH70mm
Material: Al6061

- 24m/min 切削進給
 - 2.8 times 高切深比 (D/AP)
 - 2,000 cc/min 高移除率
 - 鋁合金切削效率: 100cc/kW (2倍生產力)
 - D25 端銑刀
 - 等價合角道具路徑
- 10,500 rpm
24,000 mm/min 進給率



- Milling machine composite processing:
- Inside and outside wall/left and right hand turning tool applications
 - Fixed Angle turning tool inner cavity processing, reduce tool length and interference area
- Powerful spindle provides milling capability:
- D40 face milling
 - D32 explosive drill
 - D20 end mill
- High precision cutting:
- Dimension accuracy: 10um
 - Hole positioning accuracy: 0.01m

航太鈦合金構件切削
尺寸: L1,800xW1,500xH160mm
材質: 鈦合金

Aerospace titanium alloy component cutting
Size: L1,800xW1,500xH160mm
Material: Titanium alloy

- 粗精加工 一臺到頂
 - 一次裝夾完成作業
 - 多角度二軸頭完成斜角加工
 - 搭配夾持工件設計
- One rough finish is in place
Complete the job in one clamp
Multi-angle two-axis head to complete bevel machining
Design with clamping workpiece



車燈磨具
尺寸: L800xW550xH250mm
材質: P20模具鋼

Headlight grinding tools
Size: L800xW550xH250mm
Material: P20 die steel



- 0.2G高加減速模具切削
 - 45度往復投影加工
- 高進給粗加工:
- D25銑刀
 - F10,000mm/min
 - 120cc/min
- High feed roughing:
- D25 milling cutter
 - F10,000 mm/min
 - 120cc/min
- 高速模面精加工:
- D10 R5球刀
 - 主軸轉速 12,000rpm
 - F4,000mm/min
 - Ra0.8 μm高表面粗糙度
 - 0.04mm輪廓精度
- High-speed die finishing:
- D10 R5 knife
 - Spindle speed 12,000rpm
 - F4,000 mm/min
 - Ra0.8 μm High surface roughness
 - 0.04mm profile accuracy

車燈磨具
尺寸: L360xW151xH360mm
材質: 2311模具鋼

Headlight grinding tools
Size: L360xW151xH360mm
Material: 2311 die steel

- 0.2G高加減速模具切削
 - 線投影加工
 - 多斜面、斜角度加工
 - 加工效率提升35%
- 0.2G high acceleration and deceleration die cutting
Line projection machining
Multi-bevel, oblique Angle machining
Processing efficiency increased by 35%

- 高速模面精加工:
- D10 R5球刀
 - 主軸轉速 15,000rpm
 - F6,000mm/min
 - 0.04mm輪廓精度
- High-speed die finishing:
- D10 R5 knife
 - Spindle speed 15,000rpm
 - F6,000 mm/min
 - 0.04mm profile accuracy



汽車-引擎氣缸加工
尺寸: W600xL800xH440mm
材質: 鑄鋁



- 活寒孔徑 D85xL136mm
 - 定位精度 0.015mm
 - 對摺精度 0.02mm
 - 圓錐度 0.01mm
- Piston bore D85xL136mm
Positioning accuracy 0.015mm
The boring accuracy is 0.02mm
Conicity is 0.01mm

- Milling machine composite processing:
- Inside and outside wall/left and right hand turning tool applications
 - Fixed Angle turning tool inner cavity processing, reduce tool length and interference area
- Powerful spindle provides milling capability:
- D40 face milling
 - D32 explosive drill
 - D20 end mill
- High precision cutting:
- Dimension accuracy: 10um
 - Hole positioning accuracy: 0.01m

汽車保險桿模具
尺寸: L900xW2300xH930mm
材質: FC300

Car bumper mold
Size: L900xW2300xH930mm
Material: FC300



- 五軸同動加工, 加工效率提升30%
 - 長鼻端優勢, 有效提升刀具剛性, 減少切削振動
 - 沿面往復投影加工
 - D20R10球刀
- Five axis simultaneous machining, processing efficiency increased by 30%
The advantage of long nose effectively improves tool rigidity and reduces cutting vibration
Surface reciprocating projection machining
D20R10 ball knife
- 步距: 0.5mm
 - 往復投影加工
 - 主軸轉速 12,000rpm
 - 切削進給率5,000mm/min
- Step length: 0.5mm
Reciprocating projection machining
Spindle speed 12,000rpm
Cutting feed rate 5,000mm/min

合作伙伴 Partner

					
宝马	大众	比亚迪	西门子系统	FANUC系统	海德汉
					
江顺科技	沁峰机器人	翔名半导体	台湾银泰	台湾上银	日本THK
					
苏州电加工	华天科技	赛克斯锻压	日本NSK	台湾臻尚	德国雷尼绍
					
华工科技	中科电气	上海延峰	力士乐	意大利HSD	德国凯斯乐

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