

VF500 VF600 VF700

緊湊型高效立式加工中心

Compact and Efficient vertical machine center



浙江意控機床有限公司 ZHEJIANG YIKONG MACHINE TOOL CO.,LTD

公司簡介

COMPANY PROFILE

浙江意控機床有限公司是一家專業研發生產數控機床、自動化設備的高科技企業,我們不斷力求創新精神,同時融合多家設備生產企業的制造經驗,吸收國內外同行業的先進科研成果,已發展成爲擁有自主研發能力和完善生產、檢驗能力的加工中心機床專業制造商。

公司經過多年市場經營,總生產車間面積8000多平方米。現有杭州研發中心;雲南玉溪光機生產基地;浙江整機制造基地;形成三位一體高效生產交貨服務規模。2018年,意控公司同臺灣研島實業公司達成戰略合作。共同開發高速齒輪頭立式加工中心,力推高端機市場。

公司發展歷程:

2012年成立浙江意控機床有限公司

2016年杭州成立研發中心

2017年雲南玉溪成立光機生產基地

2018年同臺灣硏島實業公司達成戰略合作

研發成果:公司現有四大系列常規產品

鑽孔攻牙高速立式加工中心。T、TF系列:

緊湊型高效立式加工中心: V、VF系列;

高速齒輪頭立式加工中心: VM-G系列;

高速同動立式加工中心: VL系列;

機床部分特點: 歐洲技術 臺灣研發

VL同動系列: BT40換刀速度僅1.2S,達到世界領先水平,引領中國機床實現換刀1.5S的突破;成爲國內數控機床換刀技術的領航者。

VM-G系列: 高剛性、重切削、現有12000轉/分鐘齒輪頭設計; (注: 15000轉/分鐘已在研發中) 3000轉剛性攻絲, 剛柔兼顧。

我們將不斷研發更先進,更能滿足客戶需求,更貼進市場需要的新產品。精細管理,嚴謹制造,爲客戶創造價值,提升 產品競爭力而不懈努力!

Zhejiang Yikong Machine Tool Co., Ltd. is a high-tech enterprise specializing in R & D and production of CNC machine tools and automation equipment. We continue to strive for innovation, and at the same time integrate the manufacturing experience of multiple equipment manufacturers, absorb advanced scientific research results in the same industry at home and abroad, and have developed Become a professional manufacturer of machining center machine tools with independent research and development capabilities and perfect production and inspection capabilities.

After years of market operation, the company has a total production workshop area of more than 8,000 square meters. Existing Hangzhou R & D Center; Yunnan Yuxi Optoelectronics Production Base; Zhejiang Machine Manufacturing Base; forming a trinity of efficient production and delivery service scale. In 2018, Italian control company reached a strategic cooperation with Taiwan Yandao Industrial Company. Jointly develop a high-speed gear head vertical machining center to push the high-end machine market.

Company History:

Zhejiang Yikong Machine Tool Co., Ltd. was established in 2012
In 2016, Hangzhou established a research and development center
In 2017, Yunnan Yuxi established optomechanical production base
In 2018, reached strategic cooperation with Taiwan Yandao Industrial Company

R & D results: The company has four series of conventional products Drilling and tapping high-speed vertical machining center: T, TF series; Compact and efficient vertical machining center: V, VF series; High-speed gear head vertical machining center: VM-G series; High-speed simultaneous vertical machining center: VL series;

Part of the machine features: European technology, Taiwan R & D

VL simultaneous movement series: Bt40 tool change speed is only 1.2S, reaching the world's leading level, leading China's machine tools to achieve a breakthrough in tool change 1.5S; becoming the leader of domestic CNC machine tool change technology.

VM-G series: high rigidity, heavy cutting, existing gear head design of 12,000 rpm; (Note: 15,000 rpm has been under development) 3000 rpm rigid tapping, both rigid and flexible.

We will continue to develop new products that are more advanced and better able to meet the needs of customers and meet the needs of the market. Fine management, rigorous manufacturing, create value for customers, and make unremitting efforts to enhance product competitiveness!

企業寄語

ENTERPRISE WISHES

上善若水,厚德載物。

面向未來的發展,我們堅持銳意進取,從點滴做起,從自身做起,不斷提升我們的產品和服務,建設以人爲本的和諧企業。樹立"團結、開拓、敬業、奮進"的企業精神,在這個過程中,我們沒有過絲毫懈怠,始終以感恩和專業的精神詮釋着各位合作伙伴寄予我們的厚望,以提供具有高品質的數控機床和服務爲自己的驕傲和價值取向。

我們將永遠守護企業精神,更將一如旣往地堅持仁德經營、精工制造,做最可以信賴的人,制造最可以信賴的產品! 并一直努力履行着這樣的誓言: 把價值榮譽、信賴尊重、使命承諾傳遞給員工; 把平等合作、眞誠互惠傳遞給合作者; 把企業價值、眞情回饋傳遞給社會; 繼續秉承 "以質量安全保證信譽"的質量宗旨。爲了裝備制造業的發展,我們將勤耕不輟、矢志不移! 我們願和所有的朋友攜起手來,團結奮進,共創未來!



The highest good is like that of water. Great virtue promotes growth.

In the face of future development, we insist on forging ahead with determination, start from the little things, start from our own, constantly improve our products and services, build a people-oriented harmonious enterprise and set up the enterprise spirit of "unity, exploitation, dedication and progress". In this process, we do not have any slack and always interpret the expectations of our partners in the grateful and professional spirit to provide high-quality numerically-controlled machine tools and services as our pride and value orientation.

We will always safeguard the enterprise spirit, continue to adhere to kindheartedness management and precision manufacturing, be the most reliable people, and produce the most reliable products! We have always strive to performing such an oath: We will transmit the value, honor, trust, respect, mission and commitment to the staff, transmit the equal operation and sincerely mutual benefit to the cooperators, transmit the enterprise value and promotion feedback to the society and continue to inherit the quality purpose of "taking the quality safety to ensure the reputation". In order to develop the equipment manufacturing industry, we will work hard and take our oath not to change our mind! We are willing to join hands with all our friends to forge ahead in unity and create the future together!

爲批量産品加工的客户取得成功而貢獻力量

We make contributions for customers who carry out batch products processing to achieve success.

高剛性、高轉速、緊湊型設計,特別適合批量生產的生產綫。

Compact design with high rigidity and high rotation speed is especially suitable for the production line with batch production.

主軸錐度/Spindle taper BT40

主軸轉速 /Spindle speed 12000rpm

X/Y/Z軸加速度高達1.5G The accelerated speed of X/Y/Z-axis reaches 1.5G

> 主軸環狀大流量冷卻 Spindle annular large flow cooling

極速换刀/Topspeed tool changing 1.2S

主軸最大扭矩/Maximum torque of spindle 95NM

快移48米/分鐘 Rapid transverse 48m/min

大流量底部衝屑裝置 Large flow bottom punchings device

專注人機工學設計理念,實現更便捷的操作性

Focus on the man-machine engineering design concept and realize more convenient operation



Fully closed patio sheet metal

防止向機器外部濺出冷卻液和切屑,減輕對主軸馬達的影響。

Prevents splashing of the cooling liquid and cuttings to the external machine and reduces the influence on the spindle motor.

内推拉式側門

Push-pull side door

較傳統加工中心相比, 創新性的設 計使維護保養顯的得心應手。

Compared with the traditional machining center, the innovative design makes the maintenance become easy and efficient.

外接手輪 方便工件試切

It is convenient to carry out trial cut of the workpiece with the external hand wheel.

工件坐標系設定,對刀更加操作便捷。 The setting of workpiece coordinate system makes the tool operation more convenient.

選配自動門 搭載機器人

Optional auto-door with robot

大大降低操作員勞動強度,實現自動綫 聯機。

Greatly reduces the labor intensity of operators and achieves automatic connection.

衝屑槍 Punchings gun

加工後的工件淸洗, 能更容易的淸除機器內的切屑。

The cleaning of workpiece after processing is easier to remove the cuttings in the machine.

高生產效率

HIGH PRODUCTION EFFICIENCY

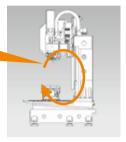
◆緊湊型的床身

Compact lathe bed

通過FEM有限元分析軟件設計的高剛性床身,有效的防止各 個受力點的變形。緊湊型的床身結構設計,使其擁有最佳的

The lathe bed with high rigidity designed by FEM software of finite element analysis can effectively prevent the deformation of each force bearing point. Compact structural design of lathe bed makes it have the optimum stability.





◆ 高剛性工作臺

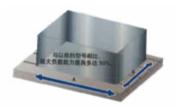
Workbench with high rigidity

以安装面积最小化,加工空间最大化的概念进行设计的,拥有 着大空间的加工条件。高刚性的工作台,可以进行更多样的零 部件加工。

It is designed with the concept of minimizing the installation area and maximizing the processing space, which has the processing condition with large space. Workbench with high rigidity can carry out more diversified components processing.

最大允許載荷 Maximum allowable load 400kg

工作臺尺寸 Workbench dimension 850X400mm

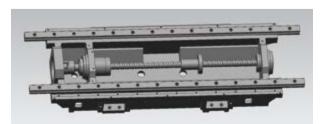


◆高剛性、高精度絲杆綫性導軌

Lead screw linear guide rail with high rigidity and high precision

- 1、鞍座電機聯結一體化構造,剛性顯著增強。
- 2、絲杆兩端預拉伸,減少熱膨脹影響,提高定位精度及傳動剛度。
- 3、三軸位移48m/min,加速度高達1.5G保障了極高的加工效率。
- 1. The saddle electrical machinery connection has the integrated structure
- and the rigidity is significantly enhanced.

 The prestretching of both ends of the lead screw reduces the influence of thermal expansion and improves the positional accuracy as well as
- 3. The triaxial displacement is 48m/min and the accelerated speed reaches 1.5G, which guarantees the extremely high processing efficiency.



◆BT40直聯式高速主軸

BT40 direct-connected high-speed spindle

- 1、相比同步帶傳輸,大幅提高主軸響應性,由于無背隙,攻 絲質量顯著改善。剛性攻絲轉速4000r/min。
- 2、保證在高速運轉時的平穩,可以達到更加精細的工件表面 粗糙度。
- 3、主軸剛性較BT30主軸而言,得到大幅提升。在滿足高速鑽 攻的同時,還可進行高效率、高精度的銑削操作。
- 1. Compared with transmission by synchronous belt, the response of spindle is greatly improved. Due to no back lash, the tapping quality is significantly improved. The rigid tapping speed is 4000r/min.
- 2.To ensure the stability of high-speed operation, the surface roughness of the fine workpiece can be achieved.

 3. The rigidity of spindle has been greatly
- improved compared with that of the BT30 spindle. While satisfying the high-speed drilling, it can also carry on the milling operation with high efficiency and high



◆刀具環狀噴水

Annular water spray of tool

大量數據表明,刀具在切削中產生的熱量不僅加劇刀具磨損, 而且使得產品質量降低, 采用大流量環噴裝置, 使這一結果 得到顯著改善。

A large number of data indicate that the heat generated by the tool in cutting not only aggravates the tool wear, but also reduces the product quality. The large flow annular water spray of device is adopted to make this result have an obvious improvement.

年度维护 成本降低约

30%



總結: 與一般的加工中心(M/C)想比較,意控的高生產效 率顯然易見。持續追求着其他加工中心所達不到的, 壓倒性高生產效率。

Conclusion: Compared with the general machining center (M/C), the high production efficiency of Yikong is obviously easy to see. The company continuously pursues the overwhelming high production efficiency that other machining centers can not reach.

- ◆ Φ 5.1螺紋底孔Thread bottom hole × 12
- ◆鏜孔Borehole×2
- ◆M6螺紋Thread ×12
- ◆使用刀具9把 9 tools are used
- ◆沉乳Countersink ×7

工作交換時間

主要加工內容

15秒 1天(10小時)×使用率85% 15 seconds per day(10 hours)×Usage rate 85%

生產效果比較

約30%UP

優异加工能力 EXCELLENT PROCESSING CAPABILITY

◆高速、高性能主軸

High-speed and high-performance spindle

一般加工用主軸:12000min⁻¹

標準

Spindle for general processing: 12000min⁻¹

適用于一般零件加工的直聯式主軸,可以很好的滿足各種有色 金屬零件的加工,及鋼鐵類零件的切削加工。

Directly-connected spindle which is suitable for general components processing can meet the processing of all kinds of nonferrous metal components and the cutting operation of steel parts.

主軸功率(連續/15 min, S3 25%) kW 5.5/7.5/15 Spindle power (Continuous/15 min, S3 25%)

主軸扭矩 Spindle torque N.m 95.5



◆高可靠的換刀裝置及刀庫

Tool changing device and tool changer with high reliability

采用高可靠的換刀裝置及凸輪式刀庫,實現了高速換刀,縮短非切削時間,提高生產效率。90度刀套倒刀設計,防止鐵屑飛濺到刀柄上。

Tool changing device and cam-type tool changer with high reliability are used to realize the high-speed tool changing, shorten the noncutting time and improve the production efficiency. 90 degree tool case design can prevent scrap iron from splashing on the hilt.

刀庫容量: 24把

換刀時間: 1.2S

Tool changing time:1.2S



從一般零部件的高效加工到高速加工,都能輕鬆應對。

It can easily cope with general components from efficient processing to high-speed processing.

高轉速加工用主軸: 18000min⁻¹

可選

High-speed spindle for processing: 18000min⁻¹

高轉速的內置式電主軸,可實現不同小型零部件的高精度加工。 Built-in motorized spindle with high speed can realize the highprecision processing of various small components.

主軸功率(LOW CONT, HIGH 1/6H) kW 5.5/7.5/15

Spindle power

主軸扭矩 Spindle torque N.m 50.8



◆適合生產綫

Suitable for production line

操作空間最大化,占地面積集約化,提高產綫最大產能,特別適合組建自動生產綫。

Maximization of operation space and intensification of floor area improve the maximum capacity of production line, which is especially suitable for setting up the automatic production line.



使用便捷性



操作性 Operability

增加USB接口、菜單編程、攻絲快回退功能,并 且轉載可以快速切換至想看畫面的"快捷鍵"和 更易管理程序的輔助文件機能。

Add USB interface, menu programming, tapping fast backward function, and reprint can quickly switch to the "shortcut key" and easier to manage the auxiliary file function of the program.

網絡功能 Network function

大容量的程序數據可以通過以太網高速傳送。 此外,轉載了通過電腦顯示機器生產監控畫面 的簡易監控機能。

Large capacity of program data can be transmitted over Ethernet at high speed. In addition, the simple monitoring function of displaying machine production monitoring screen through computer is reproduced.

加工輔助功能 Machining auxiliary function

裝載扭矩波形表示、高精度模式、熱變位自動 補正等加工輔助機能。

Loading torque waveform representation, high precision mode, thermal displacement automatic correction and other machining aids.

維護性 Maintainability

即時報警、記錄查詢、維護通知等功能。 Instant alarm, record inquiry, maintenance notice and other functions.

系統對應力 System counter stress

轉載標準PLC。輸出功率點數:最大可擴大至 各1024點(選配)。

Reprint standard PLC. Output power points: It can be expanded to 1024 points to the maximum extent (optional).

ENVIRONMENTAL PROTECTION AND ENERGY SAVING

低電量消耗,低空氣量消耗 實現了高環境性能。 全部規格都采用對低消耗電 力有效的"再生電源"。

Low power consumption and low altitude consumption achieve high environmental performance. All specifications are effective "renewable power supply" for low consumption of power.



裝載節能的功能,對地球環境做出貢獻。

Loading energy-saving functions contribute to the global environment.

切削液自動斷開...設定切削液自動斷開時間。

待機模式...設定時間,在機器無動作時伺服關閉。

機能燈自動斷開...可以設定機內燈自動關閉時間。

電源自動斷開...可以設定機床電源自動關閉時間。

Automatic disconnection of cutting fluid: set automatic disconnection time of cutting fluid.

Standby mode: set time, and the servo is closed when the

machine is not in operation. Automatic disconnection of motor lamp: you can set the $% \left(1\right) =\left(1\right) \left(1$

automatic turn-off time of the internal lamp.

Automatic power disconnection: you can set the automatic shutdown time of the machine tool power supply.

采用了低慣性主軸搭載高能率馬達和節能泵,實現了低消耗電力。 The low inertia spindle is equipped with high energy rate motor and energy saving pump, and the low power consumption is realized.



LED式機內燈(選配) LED built-in lamp (optional)



節能型泵 Energy-saving pump

"不生產不良品""防故障于未然,至少保證不停機"這些觀點都能使生產效率提高,爲此裝載了各樣各樣的功能。

"Don't produce bad products" "Take preventive measure for failures and guarantee no shutdown at least" These views can improve the production efficiency, for which each kind of function is loaded.



降低不良現象 + 預防故障 Reduce the bad phenomenon + Prevent failure



提高生產率 Improve the production efficiency

特殊規格 SPECIAL SPECIFICATION



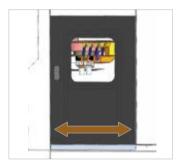
切削液装置 Cutting fluid device

根據用途有150L可選。 150L is optional according to the use.



主軸中心出水(CTS) Spindle center effluent(CTS)

主軸中心出水(CTS) 采用BT主軸的CTS(1.5MPa) ※3Mpa對應詳情需要請咨詢本公司。 Pindle center effluent(CTS) uses BT spindle CTS(1.5MPa) ※For details of 3Mpa, please contact the company.



内拉式側門(可自動) Inner pull side door (automatic)

縮小設備間距,工廠面積利用 最大化,維護保養、更加便捷。

Reduce equipment spacing, maximize the utilization of factory area, more convenient of maintenance.



衝洗裝置 Flusher

衝洗裝置安裝在機內部,有更好的 衝洗切屑的效果,使得在防濺鈑金 側面和切屑容易堆積的地方很容易 去除。

The flusher is installed in the machine and has a better effect of flushing chip, which makes it easy to remove in the side of splash sheet metal and where the cuttings are easy to pile up.

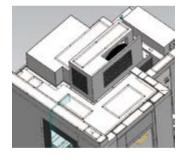


衝洗水槍

Flushing water gun

加工後的工件衝洗, 能更容易的清洗機器內的切屑。

The processed workpiece is washed, so that the cuttings in the machine can be more easily cleaned.

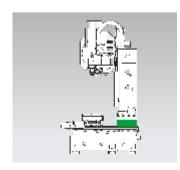


天井鈑金

Courtyard metal plate

關閉天井開口部分,防止向機器外部 濺出冷卻液和切屑的同時,也減輕對 主軸馬達的影響。

Close the opening part of the patio to prevent the splashing of coolant and cuttings to the outside of the machine, and at the same time reduce the influence on the spindle motor.



立柱加高 (150mm、250mm) Column heightening(150mm、250mm)

根據客戶的需求對應有150mm、 250mm 立柱加高。

According to the needs of customers, there have column heightening with 150mm and 250mm.



LED式機內燈(1燈) LED inner lamp (1 lamp)

LED式的采用更耐用更節能。 The LED style is more durable and energy-efficient.

特殊規格 SPECIAL SPECIFICATION



警示燈 Caution light

采用LED式, 燈泡不易損壞, 無需保

LED type is used. The bulb is not easy to be damaged, and maintenance is not required.

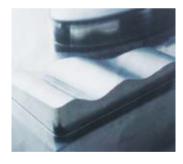


手動脉衝發生器

Manual pulse generator

使用臺面附帶的手動脈衝發生器可以

The hand artery flushing generator attached to the table can be used to prepare for work.



高精度模式

High precision mode

預讀程序段,實現高速、高精度的三 維加工。同時裝載了提高加工品質的 "平滑路徑補正機能"。

And the pre-read program segment is used for realizing the three-dimensional processing of high-speed and highprecision. At the same time, the "smooth path correction function" of improving the processing quality is loaded.



B軸綫(1軸、2軸)

B-axis(1 axis and 2 axis)

附加的1軸.2軸,可進行多面加工。

Additional 1 axis and 2 axis can be carried out multi-sided processing.

特殊規格 SPECIAL SPECIFICATION

- ●切削液裝置
- ①100L 泵 250W

兩側切削衝洗×2, 主軸噴嘴閥×1

②150L 泵 250W

兩側切削衝洗×2, 主軸噴嘴閥×1

③150L CTS 泵 250W+650W

兩側切削衝洗×2, 主軸噴嘴閥×1

- ●中心出水主軸(CTS)
- ●衝洗裝置
- ●衝洗水槍
- ●自動間歇給油裝置
- ●機內燈(1燈)
- ●指示燈(3燈)
- ●手動脈衝發生器
- ●B軸綫(1軸用,2軸用)
- ●立柱加高(150mm,250mm)
- ●天井鈑金
- ●前(側)門可實現自動開閉,大幅降低工人勞動強度
- ●選配自動排屑機
- ●機器人聯機接口
- ●工裝自動化接口
- ●自動對刀儀

工件夾緊氣密檢測

- ●擴張I/0基板(EXI0基板)
- ①標準EXIO基板32
- ②追加標準EXIO基板32
- ●軟件選配
- ①儲存量增加(約500Mbyte)
- ②插入指令宏
- ③高精度模式
- ●PLC程序的編程軟件
- ●變壓機(10K, 16K)
- ●說明書
- Cutting fluid device
- 1100L pump 250W

Cutting and washing on both sides × 2, spindle nozzle valve × 1

2150L pump 250W

Cutting and washing on both sides × 2, spindle nozzle valve × 1 3150L CTS pump 250W+650W

- Cutting and washing on both sides × 2, spindle nozzle valve × 1 Central water outlet spindle(CTS)
- ●Flusher
- •Flushing water gun
- Automatic intermittent oil feeder
- ●Inner machine lamp (1 lamp)
- ●Indicator lamp (3 lamps)
- Manual pulse generator
- Axis B(for axis 1 and axis 2) ●Column heightening (150mm, 250mm)
- •The front (side) door can be opened and closed automatically, and the labor intensity of the workers can be greatly reduced.
- Optional automatic chip removing machine
- ●Robot on-line interface
- ●Tool automation interface
- Automatic tool setting gauge

Airtight detection of workholding

- ●Expansion I/O substrate (EXIO substrate) 1)Standard EXIO substrate 32
- ②Additional standard EXIO substrate 32
- Software matching
- ①Increase in storage (about 500Mbyte)
- ②Insert instruction macro
- 3 High precision mode
- Programming Software of PLC Program
- •Transformer (10K, 16K)
- Instructions

機器規格 MACHINE SPECIFICATION

		項目 Project		VF500	VF600	VF700
	X軸 X-axis		(mm)	500	600	700
, st. e	Y軸 Y-axis (mm)		400			
移動量 Amount of movement	Z軸 Z-axis (mm)			500		
	工作臺面至主軸端面的距離 Distance from the work table to the end face of the spindle (mm)			120~620		
L作臺	工作臺面積、	Vorkbench area	(mm)	650×400	750×400	850×400
エロー室 Workbench	最大載重量(均一載重) Maximum load weight (uniform load) (kg)		300	450		
	主軸轉速 Spindle speed (min ⁻¹)			12000(min ⁻¹)/18000(min ⁻¹)		
E軸Spindle	主軸中心至立柱導軌距離 Distance from spindle center to column guide rail (mm)			480		
	主軸錐孔 Taper hole of spindle			BT 40		
	中心出水 Central water discharge			選配 Optional		
進給速度	快速移動 X × Y × Z軸 Fast moving X-axis×Y-axis×Z-axis (m/min)			48/48/48		
eed speed	切削進給速度 Cutting feed speed (mm/min)			24/24/24		
	刀庫形式 Tool changer form			圓盤式 Disc type		
	刀柄型號 Tool holder model			BT 40		
	拉釘規格 Blir	nd rivet specification		BT 40		
] 具交換裝置	刀具存儲數量 Number of tool storage (把/Handle)		24			
ool exchange evice	刀具最大長度	Maximum length of tool	(mm)	230	250	
	刀具最大直徑 Maximum diameter of tool (mm)		80			
	鄰空刀直徑 Diameter of adjacent air tool (mm)			160		
	刀具最大重量※1 Maximum weight of the tool (Kg)		8			
刀具交換※5時間 ool exchange 5 time	刀對刀 Tool to tool (sec)			1.2		
馬達 Motor	主軸馬達 Spindle motor (kW)			5.5-7.5/7.5-11		
っ建 Motor	進給軸電機 Feed shaft motor (kW)			2.6/2.6/4.5		
所需動力源 Required power source	電源 Power source			380V		
	電源容量(連續)Power capacity (continuous) (KVA)		15KVA			
	氣壓源 常用氣壓 Common air pressure (Mpa)		0.4~0.6			
	氣壓源 Pneumatic supply		45			
機器尺寸 Machine dimensions	機器高度 Mad	chine Height	(mm)	2550	26	50
	所需占地面積	Required floor area	(mm)	1680×2375	2120>	×2340
	機器重量 Machine weight (Kg)		3300 3500			
	軸的雙向定位精度 Accuracy of bidirectional positioning of axis (mm)		±0.008/300			
伟度 Precision	軸的雙向重復定位精度 Accuracy of bidirectional repetitive positioning of axis (mm)				±0.005/300	
正面門規格 Front door specification				1扇門(可選自動) 1 door (optional and automatic)		
標準附件 Standard accessory	地腳螺栓/4. 水平地腳 Anchor bolts/4. Horizontal anchor			地腳螺栓、工具箱、扳手(1套)、說明書 Anchor bolts, toolbox, wrenches (1 set),Instructions		

- 1.刀具的最大重量根據形狀、重心位置等參數會有所改變,以上僅做參考。
- 2.主軸馬達的輸出功率會根據轉速而改變。
- 3.根據機器規格、加工程序內容以及周邊機器的使用狀况,常用氣壓會有所改變,設定時請高于參考值。
- 4.機器選用不同規格刀庫時, 主軸鼻至工作臺距離有差异。
- 1. The maximum weight of the tool will be changed according to the shape, center of gravity position and other parameters, the above only for reference.
- 2. The output power of the spindle motor will vary depending on the speed.
- 3. According to the machine specification, processing program content and the use of the surrounding machine, the common air pressure will be changed, please set higher than the reference value.
- 4. When the machine selects the tool changer with different specifications, the distance between the spindle and the workbench is different.

機器規格 **MACHINE SPECIFICATION**

NC裝置規格 Specification of NC device								
控制軸數 Number of control shafts	5軸(X、Y、Z、附加軸2軸) 5 axis(X, Y, Z, additional axis 2 axis).							
	定位 5軸(X、Y、Z、A、B) Fixed position 5 axis(X,Y,Z,A,B)							
一 同時控制軸數	直綫 4軸(X、Y、Z、附加軸1軸) Straight line 4-axis (X, Y, Z, additional shaft 1 axis)	(mm)						
Simultaneous control of the number of axes	圓弧:2軸 螺旋/錐形插補:3軸(X、Y、Z) Arc: 2 axis spiral / conical interpolation: 3 axis	(mm)						
最小設置單位 Minimum setting unit	0.001	(mm)						
最大指令值 Maximum instruction value	±9999.999mm、±999.9999inch	(mm)						
外部通信功能 External communication function	USB、以太網 USB、Ethernet							

NC機能 NC function

- Absolute / incremental
- ●英制/公制 British / metric system
- ●角度C/角度R Angle C / angle R
- ●坐標回轉 Coordinate rotation
- ●同步玫絲 Synchronous rose
- ●坐標系設置 Coordinate system setting
- ●空運轉 Idling
- ●循環啓動 Cycle start
- ●背隙補償 Backgap compensation
- ●螺距誤差補償 Pitch error compensation
- ●快速進給倍率 Fast feed rate
- ●切削進給倍率 Cutting feed rate
- ●報警記錄(1,000個) Alarm records (1,000)
- ●狀態記錄 Status record
- ●機床鎖定 Machine tool locking
- ●計算機遙控 Computer remote control
- ●內置PLC Built-in PLC

●高精度模式AⅢ

High Precision Mode A III

- ●刀具長度測定 Tool length determination
- ●刀具壽命管理/備用刀具 Tool life management / standby tool
- ●背景編集
- Background compilation
- ●程序軌迹描圖 Program trajectory mapping
- ●子程序 Subprogram
- ●螺旋/圓錐插補
- Spiral / conical interpolation
- ●切粉衝洗延時 Powder flushing delay
- ●切削液自動關閉(節能機能) Automatic shutdown of cutting fluid (energy saving function)
- ●節能燈自動斷電(節能機能) Automatic power outage of energy-saving lamp(energy-saving function)
- ●自動刀具計測※1

Automatic tool measurement * 1

●波形表示

Waveform representation

●操作等級

Level of operation

●外部輸出入按鍵

External input and output button

●高精度模式B I (預讀3條程序段) High Precision Mode B I (3 blocks read in advance)

(NC)

●擴張工件坐標系

Extended workpiece coordinate system

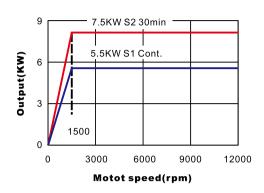
- ●定標
- Calibrate ●鏡像
- Acoustic image ●菜單編程
- Menu programming
- ●程序補償輸入 Program compensation input
- ●刀具長度補償
- Tool length compensation ●刀具半徑補償
- Tool radius compensation ●宏程序功能
- Macro program function
- ●局部坐標系統功能 Local coordinate system function
- ●單向定位 One-way positioning

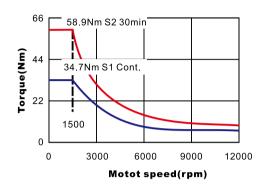
- ●紙帶運行功能 Paper tape running function (對話Dialogue)
- ●動作程序 Action program
- ●調度程序 Dispatcher
- ●刀具自動選擇
- Automatic tool selection
- 切削條件自動設定表示
- Automatic setting representation of cutting conditions
- ●刀具長度自動補償 Automatic tool length compensation
- ●刀具半徑自動補償
- Tool radius compensation automatically 未知數輸入自動計算
- Automatic calculation of unknown input
- ●加工順序控制

Processing sequence control

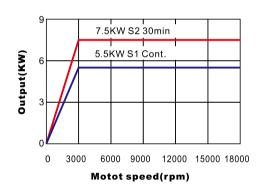
主軸功率-扭矩圖 SPINDLE POWER-TORQUE DIAGRAM

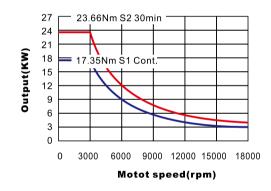
標準 Standard



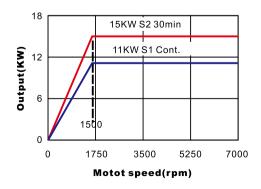


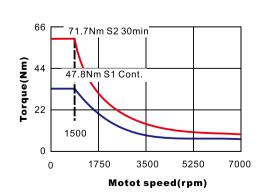
高轉速 High speed





高扭矩 High torque





加工對象零部件 MACHINING OBJECT PARTS



■ 汽車&摩托車

Automobile & Motorcycle

- ① CVT(無極變速器)
 CVT (Non-polar Transmission)
 中間殼體 Middle casing
- ② 離合器殼體 Clutch housing
- ③ 氣缸蓋 Cylinder head
- ④ 氣缸體 Cylinder block
- ⑤ EPS殼體 EPS housing
- ⑥ 節氣門體 Throttle body
- ⑦ 電動機殼體 The motor housing
- ⑧ 起動器殼 Starter shell
- ⑨ 飛輪 Flywheel
- ⑩ AT變速器箱 AT transmission box
- ⑪ 曲柄箱 Crankcase
- ⑫ 汽缸頭 Junk head

■ IT&一般機械

IT&General Machinery

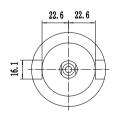
- 16 手機 Cellphone
- ① 電腦框架 Computer frame
- 18 硬盤部件 Hard disk component
- ⑲ 鐘表部件 Clock parts
- ② 相機部件 Camera component
- ② 人工骨 Artificial bone

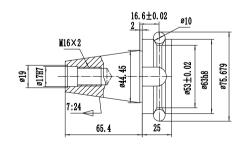
■ 大型零部件

Large components

- ② 中轉箱 Transit box
- ② 同步鏈條殼體 Synchronous chain she**ll**
- ② 卡車用氣缸蓋 Cylinder head for truck

刀柄類型/Tool holder type:





① 制動主缸

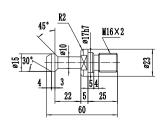
① 凸輪軸

14 轉換叉 Conversion fork

Camshaft

Brake master cylinder





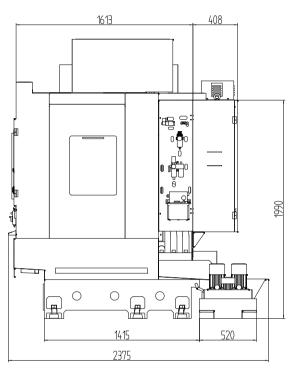
如果冷卻劑密度大于10%, 請咨詢技術工程師, 因爲這個可能會影響過濾功能。

If the coolant density is more than 10%, consult the technical engineer because this may affect the filtration function.

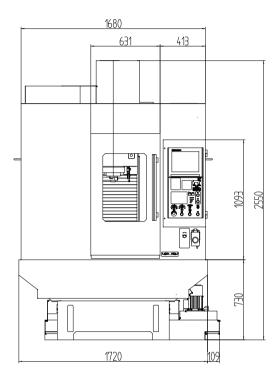
BOUNDARY DIMENSION

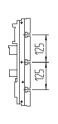
VF500外形尺寸

側視圖 Lateral view

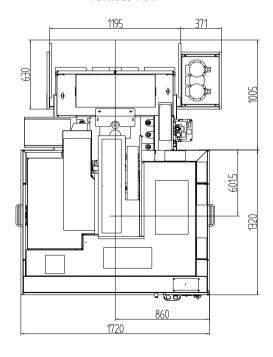


正視圖 Front view

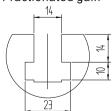




俯視圖 Vertical view



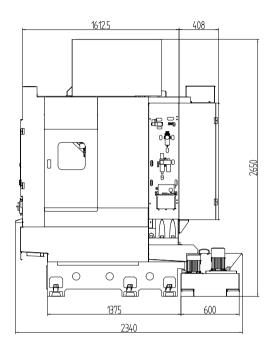
局部放大 Fractionated gain



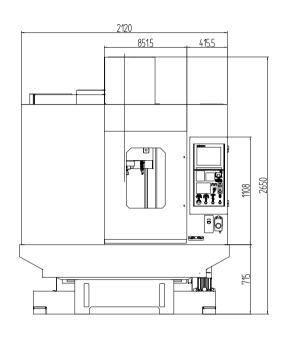
BOUNDARY DIMENSION

VF700外形尺寸

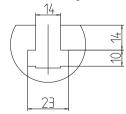
側視圖 Lateral view



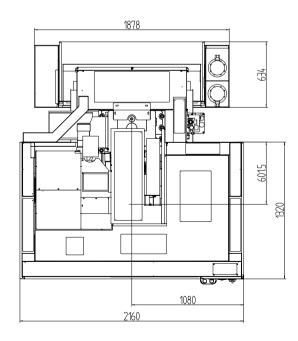
正視圖 Front view



局部放大 Fractionated gain



俯視圖 Vertical view





[掃—掃關注我們]

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