



大豪智能科技（太倉）有限公司

DAHAO INTELLECTUAL TECHNOLOGY (TAICANG) CO., LTD

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代理商



VERTICAL MACHINING CENTER / CNC LATHE

立式加工中心 / 數控車床

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企業簡介

Company profile

2009年，大豪精機創始人秉持着「人本、創新、科技」的企業理念，包含大同大隈數控機床的生產組裝理念，以及對車銑創磨三十多年豐富機床操作零部件加工經驗，創立了東莞大豪精密機械有限公司。

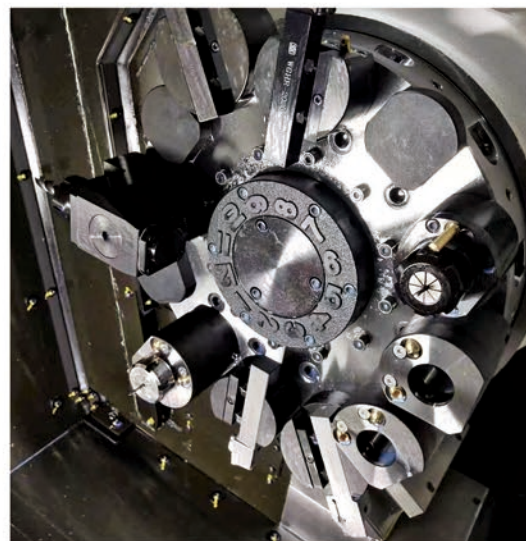
2023年，東莞大豪精密機械有限公司爲了適應市場對人工智能化產品需求，成立大豪智能科技（太倉）有限公司，着重以人爲本的經營策略，首重人才培育。公司內部導入教育研發，將近五成以上員工以研發及技術開發爲主。人本精神亦展現在與客戶的關係上，用心傾聽客戶需求、爲客戶解決切削難題是大豪精機始終不變的企業使命。

近年來，大豪精機積極地由製造業的核心模式轉向服務模式，以智能制造及客制化爲主要營運方向。大豪精機主要經營高階高品質的工具機，以自有品牌DPM，生產CNC車床、臥式加工中心機及立式加工中心機，擁有國內外多項專利，是臺資少數產品綫涵蓋臥式車床與立、臥式綜合加工機的工具機專業製造廠。另有配套專業刀具商供選擇，公司有自己的專業售後服務團隊，售服工程師全部是臺灣機械廠專業人員，技術精湛。并有專業人員提共技術諮詢及加工方案分析給客戶提供最優化的產品組合，提供加工方案交鑰匙工程，爲客戶提供一流專業的技術支持。

In 2009, Dahao Precision machine founder uphold the "people, innovation, science and technology" business philosophy, including Okuma CNC machine tool production and assembly experience, as well as more than 30 years of turning and milling machine tool parts processing experience, founded Dongguan Dahao Precision Machinery Co., LTD.

In 2023, Dongguan Dahao Precision Machinery Co., Ltd. set up Dahao Intelligent Technology (Taicang) Co., Ltd. in order to meet the market demand for artificial intelligent products, focusing on the people-oriented business strategy, the first emphasis on talent cultivation. The company has introduced education research and development, and nearly 50% of its employees are mainly engaged in research and development and technology development. The humanistic spirit is also shown in the relationship with customers, attentively listening to customer needs, for customers to solve cutting problems is always the same corporate mission of Dahao fine machine.

In recent years, Dahao Precision Machine has actively shifted from the core model of manufacturing to the service model, with intelligent manufacturing and customization as the main operating direction. Dahao Precision Machine mainly engaged in high-end and high-quality tool machines, with its own brand DPM, the production of CNC lathes, horizontal machining center machines and vertical machining center machines, with a number of domestic and foreign patents, is one of the few Taiwan-funded tool machine manufacturers whose product lines cover horizontal lathes and vertical and horizontal integrated processing machines. There are also supporting professional tool suppliers for choice, the company has its own professional after-sales service team, sales engineers are all Taiwan machinery factory professionals, skilled. And have professional technical consultation and processing plan analysis to provide customers with the optimal product portfolio, to provide processing plan turnkey project; To provide customers with first-class professional technical support.





嚴格確保 每臺機器全套檢驗

Make Sure Every
Machine is Tested

■ 用心傾聽客戶需求，不斷研發創新

Listen attentively to customer needs, continuous research and development innovation.

大豪精機憑藉着創新的思維，不斷地創造具差異化的產品，應用科技技術，提供客戶更滿意的使用情境，提升公司競爭力。

■ 精密組裝，一絲不苟

Precision assembly, meticulous.

大豪精機為了確保生產出高精度高剛性耐用持久的設備，每個組裝步驟都嚴格管控，制定了一系列嚴格的組裝SOP，以確保來料與出產產品的品質，能滿足客戶對高品質的追求。

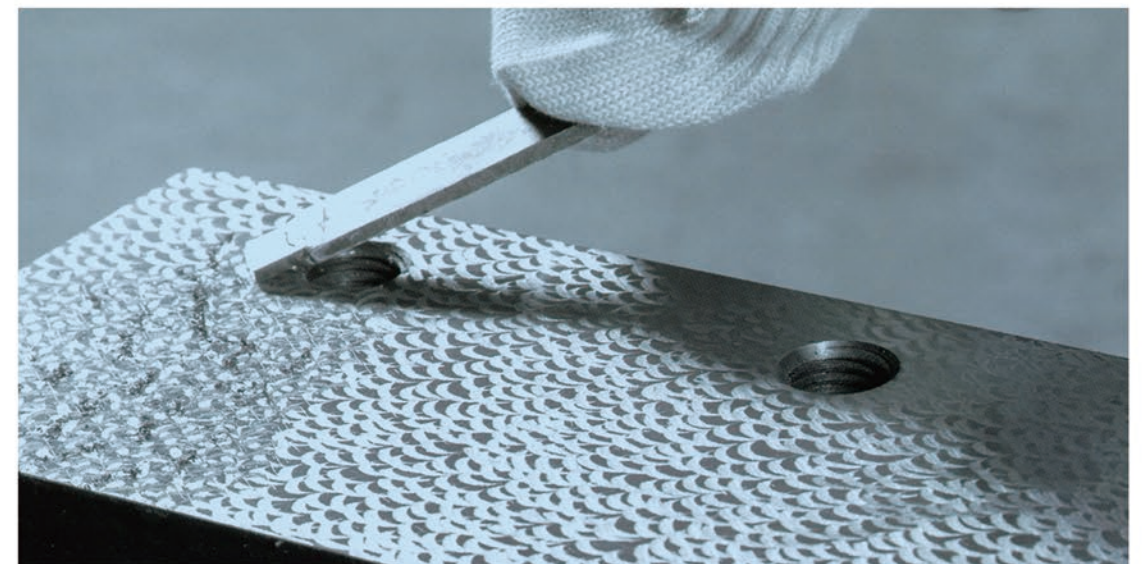
■ 注重機臺品質， 嚴格確保每臺機器全套檢驗

Pay attention to machine quality,
Strictly ensure complete inspection of each machine.

毛坯檢驗：所有鑄件皆採用高標準FC300灰口鑄鐵，經過高標準回火及時效處理

制程檢驗：高精度鏜花加工、尾端座校正、馬達座校正、導螺杆校正

成品檢驗：每件產品出廠前都做標準件試加工。



鐳射校正及循圓檢驗，動平衡校正 Laser calibration and circular inspection, dynamic balance calibration

DH-V 系列

立式高精度加工中心

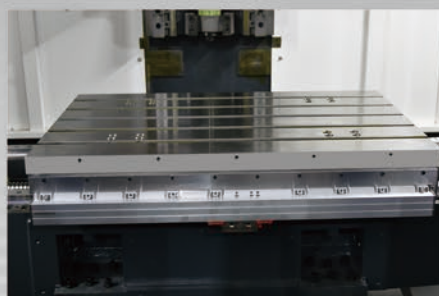
Vertical High Precision Machining Center Series

大豪DH-V系列高精度立式加工中心鑄件採用灰口鑄鐵(FC300以上), 依照國際規範(JIS G 5501)的成份要求, 來進行鑄件的生產, 進行自然時效; 所有的組裝接觸面, 如底座與立柱接觸面、滾珠導螺杆接觸面、線軌接觸面和馬達座接觸面等, 皆由資深的技師做鍍花處理, 用以確保機床結構與精度能夠長時間穩定, 有效延長機床壽命。機床結構剛性足, 僅DH-V856L機型自身重量重達7.2噸, 加大主軸衝水電機減少刀具磨損, 提高加工效率及穩定性, 亦可以選擇中心出水及副水箱。

Dahao DH-V series high precision vertical machining center castings using Gray cast iron (FC300 or above), in accordance with the international standard (JIS G 5501) composition requirements, to the casting production, natural aging; all the assembly of the contact surface, for example, the contact surface of the base and the column, the contact surface of the ball guide screw, the contact surface of the line rail and the contact surface of the motor base, etc., effectively extend the life of the machine tool. The machine tool structure is rigid enough, only the DH-V856L model weight reaches 7.2 tons, increases the main shaft to flush the water motor to reduce the tool wear, enhances the processing efficiency and the stability, also may choose the center outlet water and the auxiliary water tank.

高剛性 高精度 耐用持久 <<<

High Rigidity , High Precision , Durable and durable



海德漢光柵尺可選用
Heidenhain grating ruler is optional



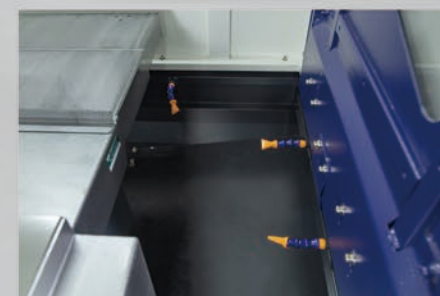
油脂潤滑系統
Grease lubrication system



冷却水槍及風槍標配
Cooling water gun and wind gun standard



標準冷却
Standard cooling



機床內後衝水
Machine inside back flush



CNC 數控分度盤可選用
CNC index plates are available



SMC 空氣過濾組合
SMC air filtration combination

DH-V 系列

立式高精度加工中心 Vertical High Precision Machining Center Series



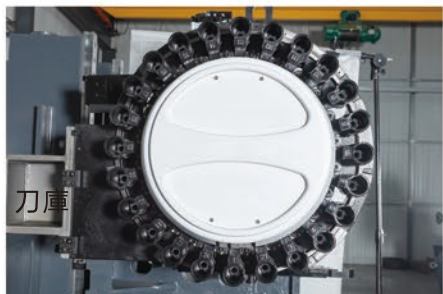
電主軸 Motorized spindle



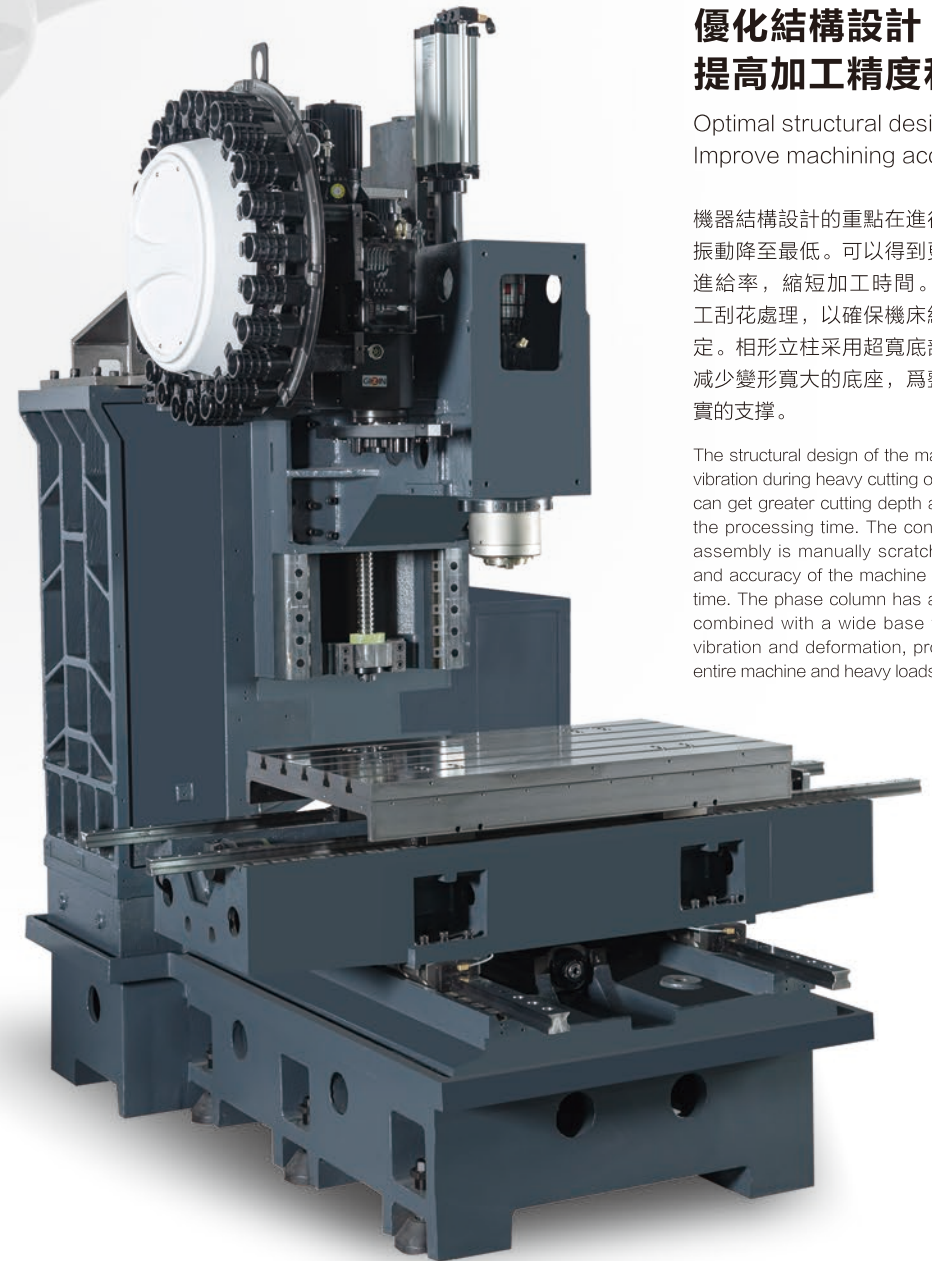
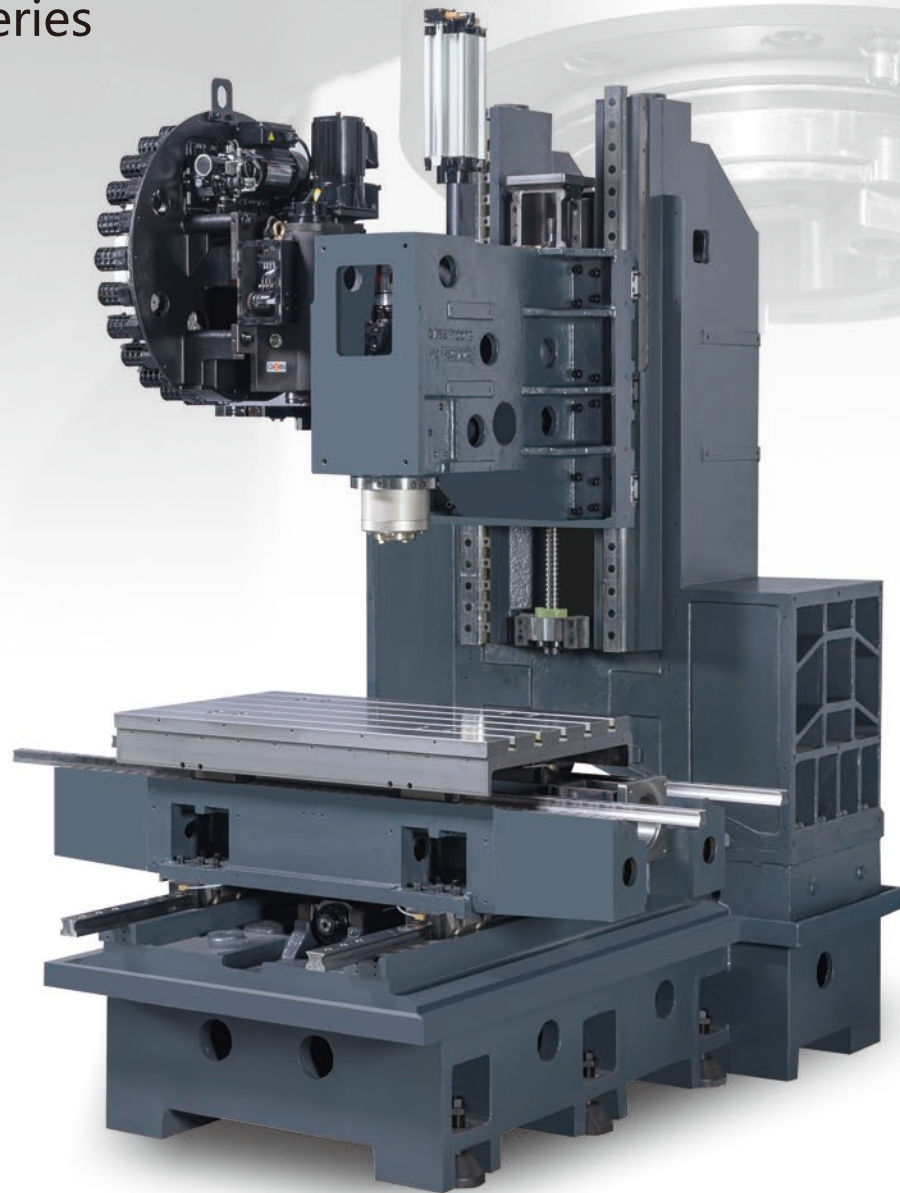
直接主軸 Direct spindle



重載滾柱綫軌 Heavy duty roller line rail



刀庫 Tool magazine

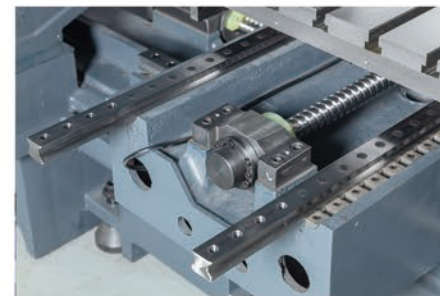


優化結構設計 提高加工精度和效率

Optimal structural design
Improve machining accuracy and efficiency

機器結構設計的重點在進行重切削或高速加工時將振動降至最低。可以得到更大的切削深度和更高的進給率，縮短加工時間。機臺組裝接觸面均經人工刮花處理，以確保機床結構與精度能夠長時間穩定。相形立柱採用超寬底部設計，結合內肋減振及減少變形寬大的底座，為整臺機器和重載提供了堅實的支撐。

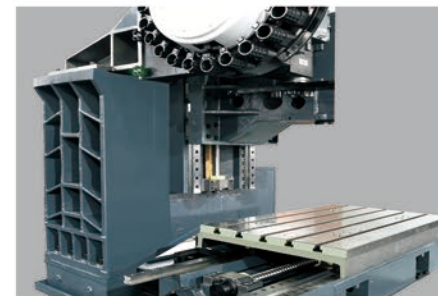
The structural design of the machine focuses on minimizing vibration during heavy cutting or high-speed machining. You can get greater cutting depth and higher feed rate, shorten the processing time. The contact surface of the machine assembly is manually scratched to ensure the structure and accuracy of the machine tool can be stable for a long time. The phase column has an ultra-wide bottom design, combined with a wide base with internal ribs to reduce vibration and deformation, providing solid support for the entire machine and heavy loads.



預拉式滾珠螺桿 Prepull ball screw

有效降低熱變形。螺桿直接與馬達連接防止背隙產生，同時確保進給和定位精度。

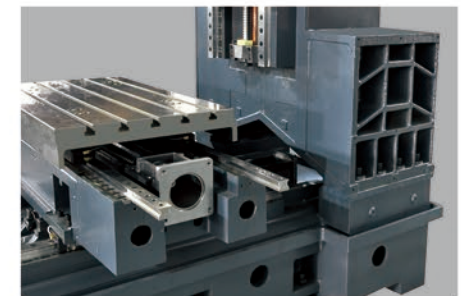
Effectively reduce thermal deformation. The screw is directly connected to the motor to prevent back backlash while ensuring feed and positioning accuracy.



床身 Machine bed

床身底座增加穩定支撐點，確保床身達到最佳的使用機構。加厚加寬重點結構，以增加床身的穩定性。

The base of the bed adds stable support points to ensure that the bed reaches the optimal use mechanism. Thickening and broadening the key structure to increase the stability of the bed.



DH-V 系列立式高精度加工中心主要技术参数 DH-V series vertical high precision machining center main technical parameters

項 目 Item		單位 Unit	DH-V650L	DH-V850L	DH-V856L	DH-V1056L	DH-V1265L	DH-V1370L	DH-V1570L	DH-V1680L	DH-V1880L
X 軸行程	X-axis travel	mm	650	850	800	1000	1200	1300	1500	1600	1800
Y 軸行程	Y-axis travel	mm	430	550	560	560	650	700	700	800	800
Z 軸行程	Z-axis travel	mm	460	550	560	560	650	700	700	800	800
工作臺尺寸	Table size	mm	800×450	1000×560	1000×575	1200×575	1300×650	1400×700	1600×700	1800×800	2000×800
T 型槽	T-slot	mm	18×100	18×100	18×100	18×100	18×120	18×120	18×120	18×100	18×100
主軸鼻端到工作臺距離	Distance from spindle nose to table	mm	150-610	150-700	150-710	150-710	150-800	150-800	150-850	200-1000	200-1000
主軸中心到綫軌面距離	Distance from spindle center to track surface	mm	530	600	600	600	670	812	812	872	872
最大載重	Maximum load	kg	600	800	800	800	1000	1000	1200	1600	1600
主軸內孔規格	Spindle bore specification		HSK63A	BBT40	BBT40/HSK100A	BBT40/HSK100A	BBT40	BBT40	BT50	BT50	BT50
主軸直徑	Spindle diameter	mm	150	150	160/250	160/250	150	150	190	190	190
主軸轉速	Spindle speed	r.p.m	20000	10000	10000/14000	10000/14000	8000	8000	6000-8000	6000-8000	6000-8000
主軸馬達功率	Spindle motor power	kw	15	7.5/11	15/18.5/22	15/18.5/22	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
主軸馬達扭矩	Spindle motor torque	NM	25	35.8/95.5	52.5/118 (電主軸 143/233)	52.5/118 (電主軸 143/233)	143/236	143/236	143/236	95.5/191	95.5/191
傳動方式	Transmission mode		電主軸	直結式	直結式 / 電主軸	直結式 / 電主軸	直結式	皮帶式	皮帶	皮帶	皮帶
刀庫型式	Tool library type		HSK63A	BT40	BBT40/HSK100A	BBT40/HSK100A	BBT40	BT50	BT50	BT50	BT50
刀具數量	Number of tools	tools	24	24	24	24	24	24	24	24	24
最大刀具直徑	Maximum tool diameter	mm	80	80	80	80	80	105	105	105	105
鄰空刀尺寸直徑	Adjacent empty tool size diameter	mm	150	150	150	150	150	200	200	200	200
最大刀具長度	Maximum tool length	mm	300	300	300	300	300	350	350	350	350
最大刀具重量	Maximum tool weight	kg	8	8	8	8	8	15	15	15	15
換刀時間	Tool change time	sec	1.9	2.5	2.5	2.5	2.5	3.9	3.9	3.9	3.9
三軸快速位移	Three axis rapid displacement	mm	36/36/36	36/36/36	36/36/30	36/36/30	36/36/24	36/36/24	36/36/24	24/24/24	24/24/24
切削速率	Cutting rate	m/min	1-15	1-10	1-10	1-10	1-10	1-10	1-10	1-10	1-10
絲杆直徑	Screw diameter	mm	40×12	X、Y:40×16 Z:40×12				X、Y:50×16 Z:50×12	X、Y:50×16 Z:50×12	X: 50×16 Y:55×16 Z:55×12	
綫軌尺寸	Rail size	mm	35/35/45	35/45/45	35/45/45	35/45/45	45/45/45	45/45/45	45/45/45	45/55/55	45/55/55
定位精度	Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
重複定位精度	Repeated positioning accuracy	mm	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
控制器	Controller		SIEMENS	FANUC Oi-MF			FANUC Oi-MF				
氣壓	Atmospheric pressure	kg/cm ²	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
機器重量	Machine weight	kg	5500	6100	7200	7400	8300	13500	14000	15000	15500

標準附件 Standard accessories

- 全密閉式防護罩
Fully enclosed shield

電氣箱熱交換器
Electric cabinet heat exchanger

皮帶式傳動
Belt drive

切削冷却單元
Cutting cooling unit

切削吹氣裝置
Cutting and blowing device

主軸吹氣
Main shaft blowing
- 剛性攻牙
Rigid tapping

程式存儲
Program storage

自動潤滑系統
Automatic lubrication system

水準螺栓及墊塊
Leveling bolts and padding blocks

操作及維護手冊
Operation and maintenance manual

DNC電腦傳送綫
DNC computer transfer cable

- 三軸伸縮護罩
Three-axis retractable guard

三色警示燈
Three-color warning light

防爆工作燈
Explosion-proof working light

外挂式手輪
External handwheel

工具箱
Tool cabinet

主軸油冷機
Spindle oil cooler
- 清潔用水槍
Water gun for cleaning

清潔用氣槍
Air gun for cleaning

鐵屑盤及水箱
Iron disk and water tank

外部電源變壓器
External power transformer

調整螺栓及墊塊
Adjust bolts and gaskets

精度檢測報告書
Accuracy test report

選購附件 Optional accessories

- 第四、五軸旋轉工作臺
Fourth, five axis rotary table

自動刀長測量系統
Automatic tool length measurement system

安全門
Emergency gate

排屑機
Chip cleaner

圓盤式油水分離機
Disc type oil and water separator

電氣櫃空調裝置
Electric cabinet air conditioning device
- 主軸中心出水
Spindle center discharge

三軸光刪尺
Triaxial optical erasure ruler

工件測量系統
Job measurement system

ZF兩段齒輪箱
ZF two-stage gear box

自動門
Automatic door

刀庫刀具數量30T
The number of knives in the tool library is 30T

- 油霧收集器
Oil mist collector

立柱加高
Column heightening

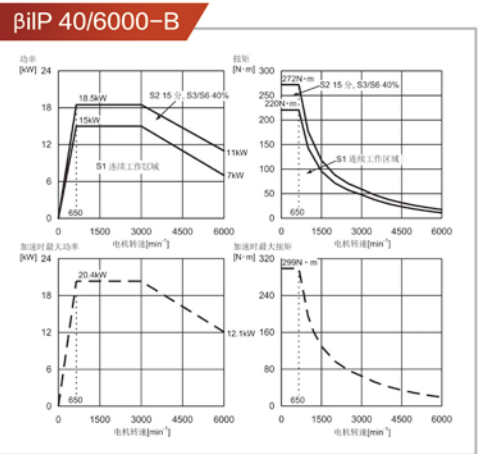
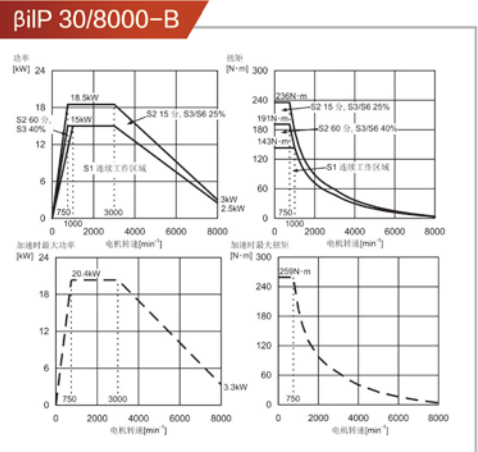
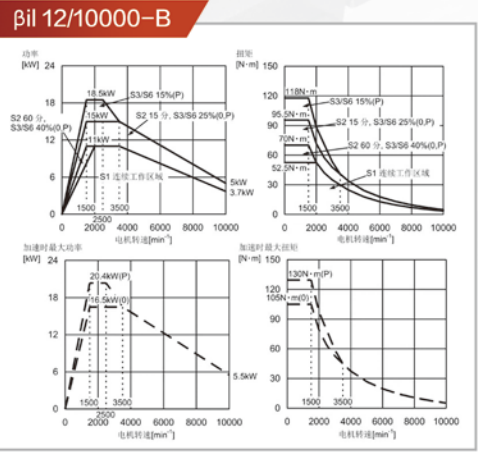
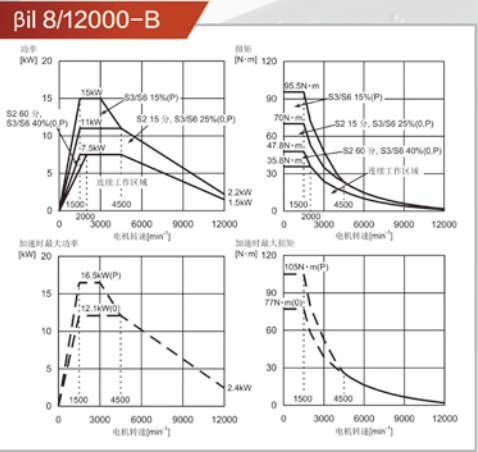
刀具破損檢測
Tool breakage detection

數控系統 Numerical control system

- FANUC發那科系統
FANUC Systems

MITSUBISHI三菱系統
MITSUBISHI Systems

SIEMENS西門子系統
SIEMENS Systems



因技术更新，产品参数如有变化，恕不另行通知。 Due to technical updates, product parameters are subject to change without prior notice.

DH-L 系列

數控車床

CNC Lathe Series

大豪DH-L系列數控車床特點及優點相比較于其他臺灣機床品牌同規格的機床，整體斜床身便于將鐵屑集中在排屑機上便于實現自動化排屑，切削下的鐵屑帶有很高的熱量，積聚在導軌上會使導軌受熱變形使工作精度發生變化，在批量化自動加工過程中會導致工件的批量報廢。相比于其他臺灣品牌有着更好的穩定性，更高的鋼性，更大的切削力，更大的加工範圍。從而減少刀具損耗，減少客戶加工成本，提升機床使用壽命。

Dahao DH-L series CNC lathe features and advantages compared with other Taiwan machine tool brands with the same specifications of machine tools, the overall inclined bed is easy to concentrate iron chips in the chip removal machine to achieve automatic chip removal, cutting iron eyebrow with high heat, accumulation in the guide rail will make the guide rail heat deformation so that the working accuracy changes. In the process of mass automatic processing, it will lead to the mass scrap of the workpiece. Compared with other Taiwan brands, it has better stability, higher rigidity, greater cutting force, and larger processing range. Thus reduce tool loss, reduce customer processing costs, improve the service life of the machine.

高精度 高效率 高穩定性 <<<

High Precision , High Efficiency, and High Stability

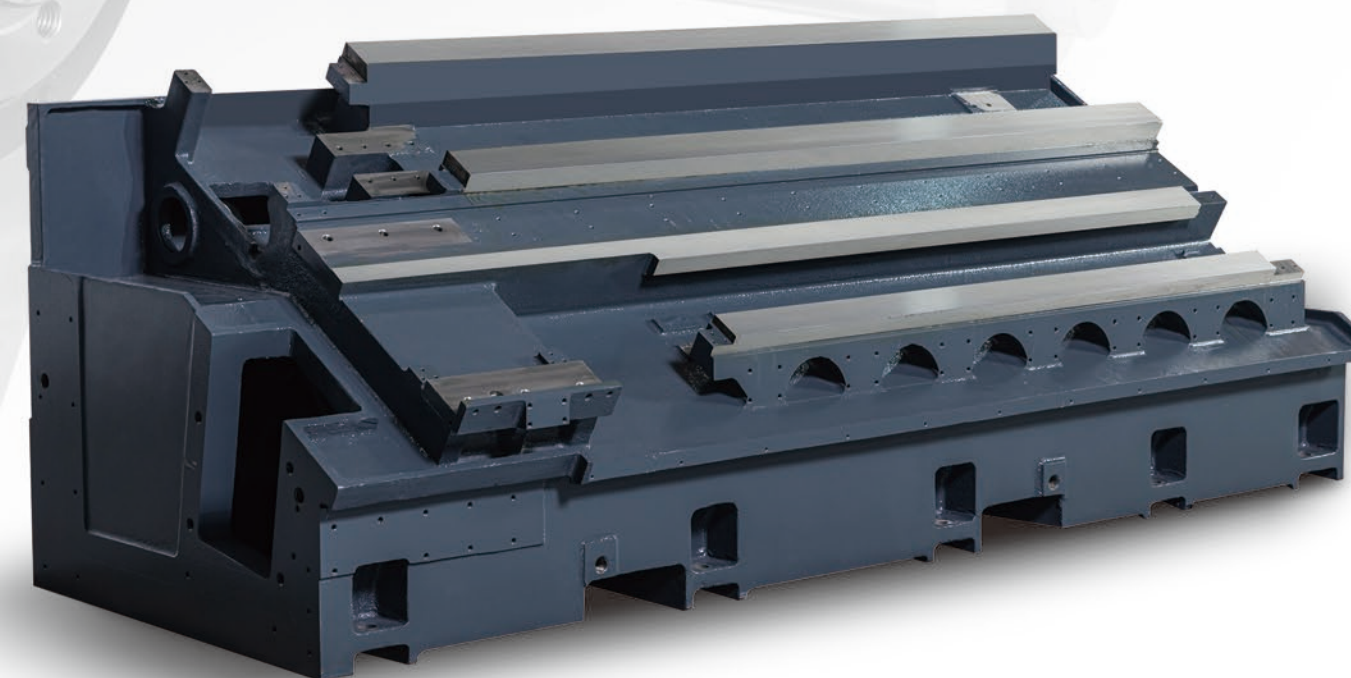
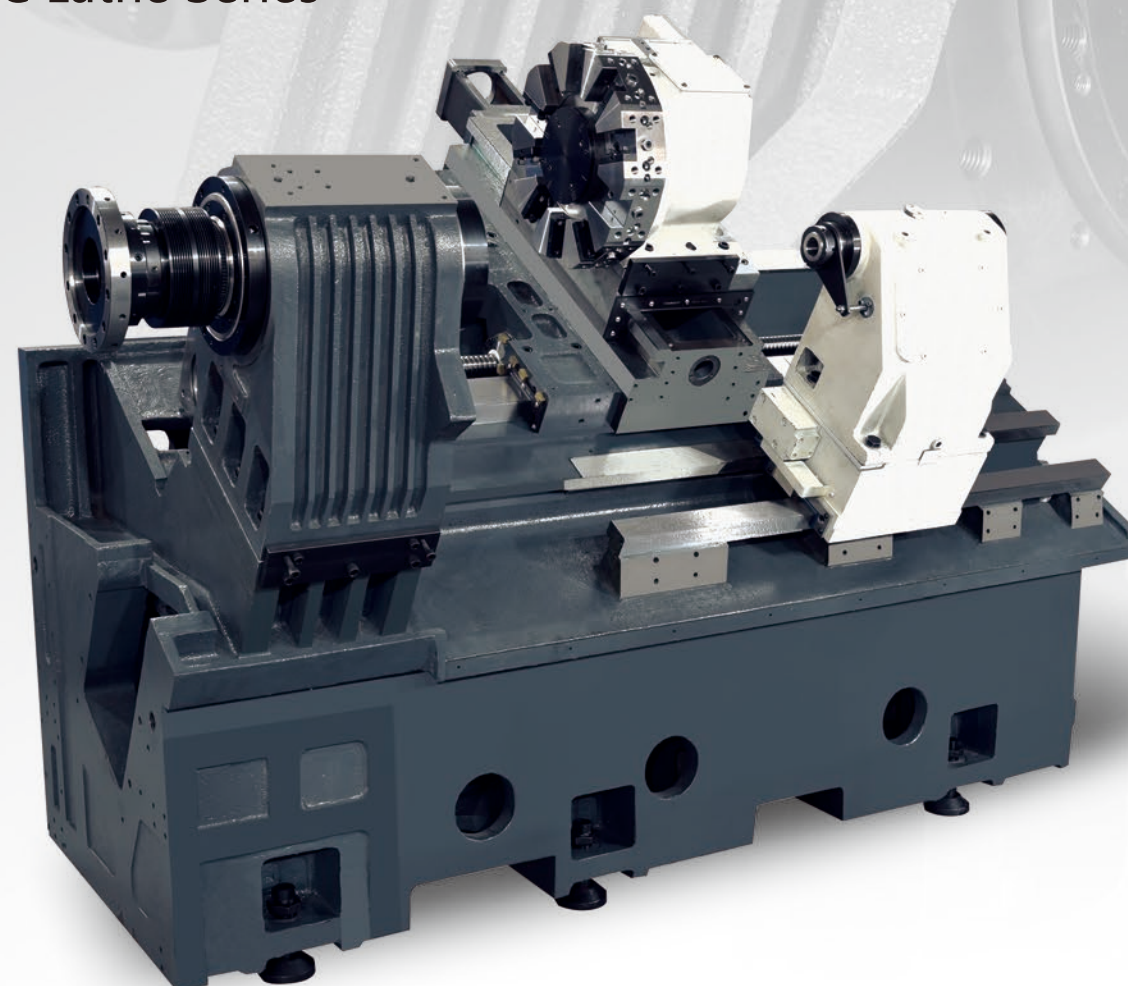


DH-L 系列

數控車床 CNC Lathe Series

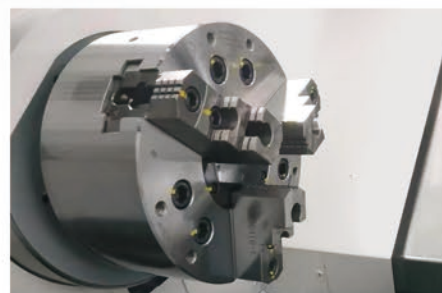
大豪精機設計和制造的CNC數控車床采用整體式30°斜床身結構，剛性好、經久耐用。所有的結構和鑄件設計都采用了逆向有限元分析。大豪公司特有的逆向有限元設計的方法，確保了所有機床產品具備更科學的結構剛性和結構的合理性。

The CNC lathe designed and manufactured by Dahao Precision Machine adopts an integral 30° inclined bed structure with good rigidity and durability. Reverse finite element analysis was used for all structural and casting designs. The unique reverse finite element design method of Dahao company ensures that all machine tools have more scientific structural rigidity and structural rationality.



采用整體式30度斜床身一體成型床臺結構，吸震力強，穩定性高。

It adopts integral 30-degree inclined bed structure, which has strong shock absorption and high stability.



楔形三爪大貫通孔徑中空動力夾頭，可選配8寸/10寸/12寸。

Wedge-shaped three-claw hollow power chuck with large through-hole aperture, optional 8"/10"/12".



NC刀塔，采用三片式離合器，結合NC伺服換刀系統，確保快速定位精度和穩定性。

NC turret, using three-piece clutch, combined with NC servo tool change system, to ensure fast positioning accuracy and stability.



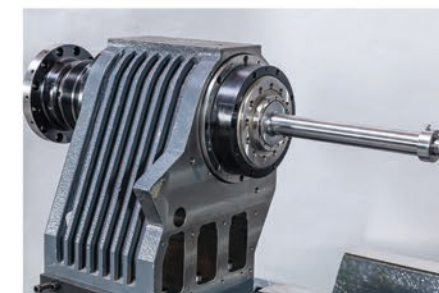
MT NO.4直徑80×100高剛性油壓尾座心軸及簡易操作之腳踏開關，配有油壓自動油壓鎖緊及可程式編程。

MT NO.4 80×100 diameter high rigidity oil tailstock mandrel and easy to operate foot switch with oil automatic oil locking and programmable programming.



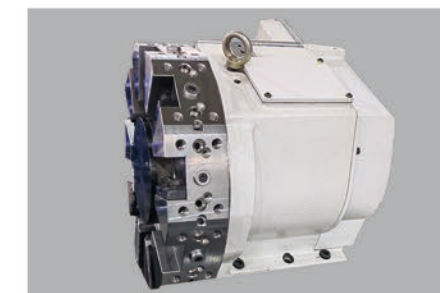
高剛性工字型硬規滑道，精密預拉的滾珠螺桿，使熱變化尺寸誤差達到最小。

High rigidity I-shaped hard gauge slide, precision pre-drawn ball screw, to minimize thermal variation size error.



高速強勁的主軸，能減少震動和溫升。

High speed and strong spindle reduces vibration and temperature rise.



采用臺灣頂級伺服刀塔。

Taiwan's top servo cutter tower.

車、鏜、鑽、銑、攻牙加工

Turning, boring, drilling, milling, tapping processing

高精度加工 High precision machining

- 熱變位補正功能，實現高精度加工。

操作簡單 Simple operation

- 選配搭載（發那科、三菱、新代、西門子）對話編程軟件，實現簡單編程。
- 調試過程中的幹涉防止功能，使安裝調試更放心。
- 異常負荷檢出退刀功能，可減輕幹涉時對機器產生的影響。



發那科 Oi-TF



三菱M80B

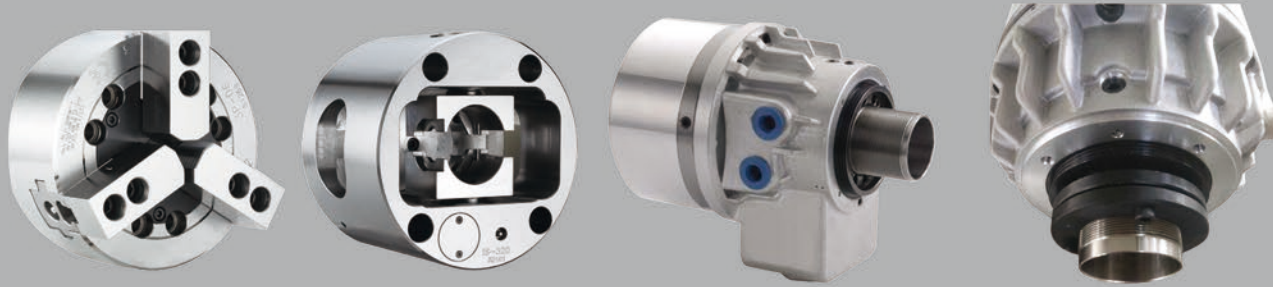


西門子系統

加工能力 Processing capacity

- 可進行車、鑽、鏜加工（動力刀塔可進行銑、攻牙加工）
- 高剛性基本構造，實現中切削
- 卓越的切削能力，實現高生產

回轉油缸與卡盤 Rotary cylinder and chuck



高速中空夾頭

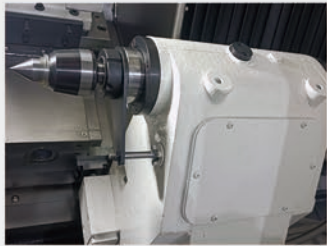
自動分度夾頭
（選配）

油壓中空回轉缸

三爪自由度調節環
（選配）

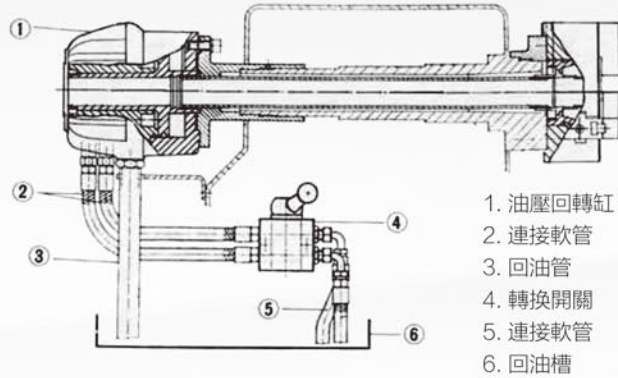
長工件加工 Long workpiece processing

- 通過尾座臺（選配）可加工長工件和夾持餘量少的工件。



項目	規格
錐孔	MT No.4
頂尖的移動量	80mm（液壓驅動）（油壓驅動）
定位	手動（240mm）

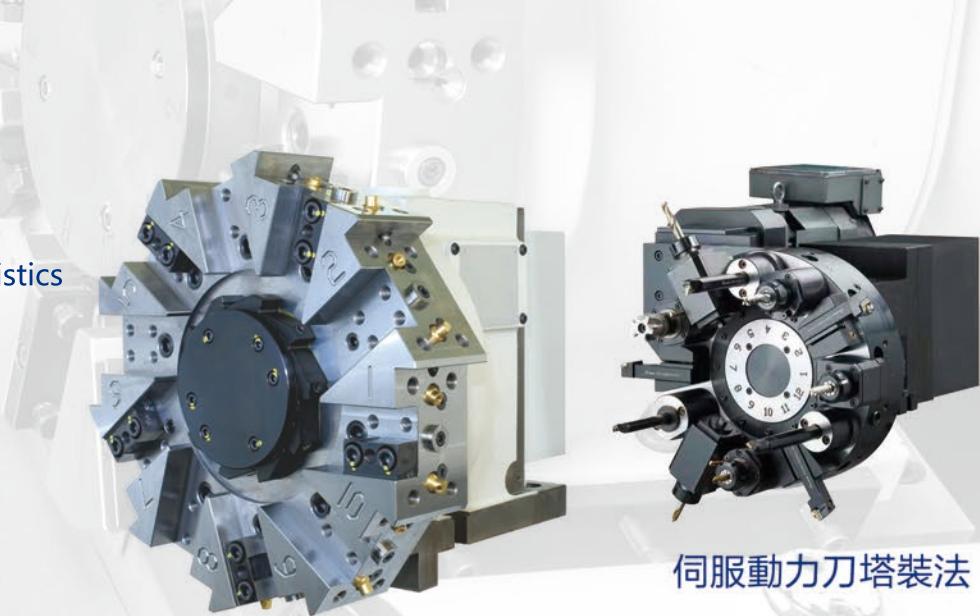
油壓回轉缸安裝說明 Hydraulic rotary cylinder installation instructions



伺服刀塔特性

Servo turret characteristics

高剛性的整體設計
搭配高精度的三片式放射型離合器
確保其定位精度、重複定位精度
搭配伺服馬達 驅動刀盤旋轉
進行雙向或是任意就近選刀
使用油壓原理放鬆、夾緊離合器
配合近接開關回授離合器動作信號
迅速且精準的達到換刀動作



伺服動力刀塔裝法



工件量測



SMW中心支架



主軸上方吹氣

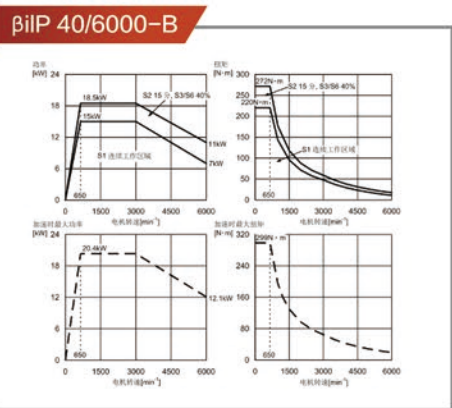
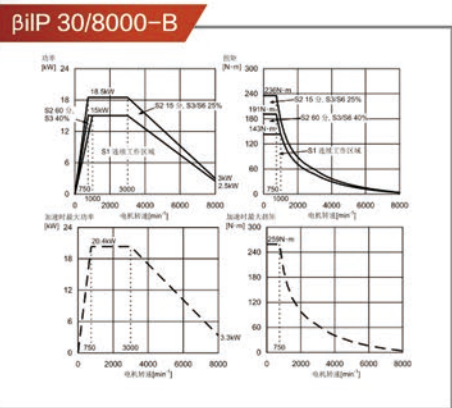
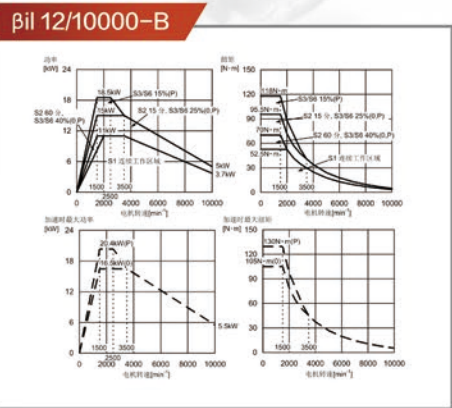
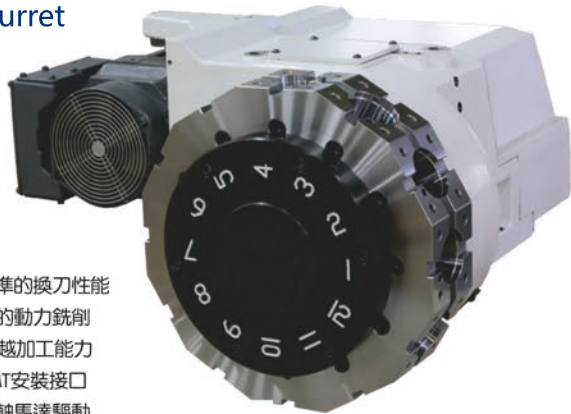


刀具量測

伺服動力刀塔特性

Servo power turret characteristics

有着伺服刀塔迅速、精準的換刀性能
再搭配上高轉速動力軸的動力銑削
達到車、銑複合式的卓越加工能力
刀座安裝採用高剛性BMT安裝接口
動力傳動軸使用伺服主軸馬達驅動
動力輸出採用DIN1809一字形方式
旋轉工具最高轉速可達5000RPM



DH-L 系列数控车床主要技术参数 DH-L series CNC lathe main technical parameters

項 目 Item		單位 Unit	DH L150G	DH L200	DH L200E	DH L255 ~800	DH L255 ~1300	DH L255 ~1800	DH L255 ~2300	DH L355 ~3200
床臺上旋徑	Table winding	mm	Φ480	Φ650	Φ650	Φ900	Φ900	Φ900	Φ900	Φ1000
滑座上旋徑	Slide upper diameter	mm	Φ450	Φ500	Φ500	Φ700	Φ700	Φ700	Φ700	Φ800
最大車削外徑	Maximum outside turning diameter	mm	Φ450	Φ420	Φ400	Φ550	Φ550	Φ550	Φ550	Φ600
最大車削長度	Maximum turning length	mm	250	500	700	800	1300	1800	2300	3200
主軸速度	Spindle speed	mm/min	45~4500	45~4200 (45~3200)		45~3200 (45~2500)				45~1500
主軸鼻端	Spindle nose		A2~5	A2~6 (A2~8)		A2~8 (A2~11)				A2~11
主軸通孔直徑	Spindle through hole diameter	mm	Φ56	Φ67 (Φ90)		Φ90 (Φ131)				Φ131
棒材容納直徑	Bar accommodates diameter	mm	Φ45	Φ52 (Φ75)		Φ75 (Φ117)				Φ117
主軸前軸承直徑	Spindle front bearing diameter	mm	Φ90	Φ100 (Φ130)		Φ130 (Φ170)				Φ170
尾座套筒規格	Tailstock sleeve specifications		-	M.T.NO.4		M.T.NO.5				M.T.NO.5/6
尾座心軸直徑及行程	Tail seat spindle diameter and stroke	mm	-	Φ80x100L		Φ110x150L				Φ110x150L
主軸 AC 伺服馬達	Spindle AC servo motor	kw	5.5/7.5	11/15 (15/18.5)		15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
X 軸 AC 伺服馬達 Z 軸 AC 伺服馬達	X-axis AC servo motor Z-axis AC servo motor	kw	AC 1.8 AC 1.8	AC 1.8 AC 2.5	AC 1.8 AC 2.5	AC 2.5 (20NM) AC 3.0 (20NM)	AC 2.5 (18NM) AC 3.0 (20NM)			AC 3.0 (20NM) AC 3.0 (20NM)
X 軸行程 Z 軸行程	X-axis travel Z-axis travel	mm	450 250	210+20 520	200+20 750	275+30 850	275+30 1350	275+30 1850	275+30 2350	300+30 3250
X 軸快速位移 Z 軸快速位移	X-axis rapid displacement Z-axis rapid displacement	mm/min	X=30000 Z=30000	X=20000 Z=20000	X=20000 Z=20000	X=20000 Z=20000	X=20000 Z=20000	X=20000 Z=20000	X=20000 Z=20000	X=20000 Z=20000
刀塔數目速	Knife tower number speed		櫛式	T10	T10	T12	T12	T12	T12	T12
主軸跳動	Spindle runout		≤ 0.003	≤ 0.003	≤ 0.003	≤ 0.003	≤ 0.003	≤ 0.003	≤ 0.003	≤ 0.003
方形刀具規格	Square tool specification	mm	20x20	25x25	25x25	25x25	25x25	25x25	25x25	32x32
鏜孔刀具規格	Boring tool specifications	mm	32	40	40	40(50)	40(50)	40(50)	40(50)	50(60)
油壓泵馬達	Hydraulic pump motor	kw	40L/2.2kw							
冷却泵馬達	Cooling pump motor	kw	0.4	0.4	0.4	0.75	0.75	0.75	0.75	0.75
注油器泵馬達	Oiler pump motor	kw	3.0L/0.15kw							
機床重量	Machine weight	kg	3100	4300	4800	6200	7800	12500	14300	16800

標準附件 Standard accessories

全密閉式防護罩 Fully enclosed shield	自動潤滑系統 Automatic lubrication system	工具箱 Tool cabinet
電氣箱熱交換器 Electric cabinet heat exchanger	水準螺栓及墊塊 Leveling bolts and padding blocks	清潔用水槍 Water gun for cleaning
皮帶式傳動 Belt drive	操作及維護手冊 Operation and maintenance manual	鐵屑盤及水箱 Iron disk and water tank
切削冷却單元 Cutting cooling unit	DNC電腦傳送綫 DNC computer transfer cable	外部電源變壓器 External power transformer
剛性攻牙 Rigid tapping	三色警示燈 Three-color warning light	調整螺栓及墊塊 Adjust bolts and gaskets
程式存儲 Program storage	防爆工作燈 Explosion-proof working light	精度檢測報告書 Accuracy test report

選購附件 Optional accessories

排屑機及小推車 Chip removal machine and cart	ZF兩段齒輪箱 ZF two-stage gear box	氣槍 Air gun
圓盤式油水分離機 Disc type oil and water separator	二軸光柵尺 Two-axis grating ruler	自動門 Automatic door
電氣櫃空調裝置 Electric cabinet air conditioning device	主軸上方吹氣 Blow air above the main shaft	油霧收集器 Oil mist collector
大孔徑主軸 Large bore spindle	中心架 Center rest	門連鎖 Gate chain
主軸中心出水 Spindle center discharge	刀具測量 Tool measurement	安全光柵 Safety grating
工件測量系統 Job measurement system	刀塔中心出水 Center of tower water	

因技术更新，产品参数如有变化，恕不另行通知。Due to technical updates, product parameters are subject to change without prior notice.

桁架式自動化機械臂
Truss type automatic robot arm

- 原裝進口機體零組件，確保一流質量水平。
 - 伺服驅動加減速精準順暢，確保車削質量。
 - 可多點停放，進行多樣化的周邊生產變化。
 - 可靠的達成24小時，嚴苛的生產要求。
 - 可整合入機床控制器，不需要額外示教器，操作簡單易學。
 - 客制化設計，滿足客戶各種生產難題。
- Original imported body parts to ensure first-class quality.
 - Servo drive acceleration and deceleration accurate and smooth, to ensure the quality of turning.
 - Can be multi-point parking, diversified peripheral production changes.
 - Reliable 24 hours, strict production requirements.
 - Can be integrated into the machine tool controller, no additional teaching device is required, easy to operate and learn.
 - Customized design to meet customers' production problems.



多軸式智能機器人 Multi-axis intelligent robot

