

渡扬数控——做更有价值的机床！

Duyang CNC——Make more valuable machine tools!



昆山渡扬数控机床设备有限公司
Kunshan Duyang CNC Machine Tool Equipment Co., Ltd.

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www.duyangcnc.com

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微信公众号
WeChat Official Account



渡扬官网
Duyang Official Website

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(越南电话 Vietnam phone number)



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—— 渡扬数控 ——
做更有价值的机床！
Duyang CNC
Make more valuable machine tools!



Company Profile 公司简介

昆山渡扬数控机床设备有限公司坐落于美丽的江南水乡——昆山城北北门路3887号精密模具智造区,为自建厂房。渡扬数控是一家集研发、生产、销售及服务为一体的专业数控机床设备制造的高新科技企业。产品主要包括立式加工中心机、龙门式加工中心机、高速钻攻机、高速雕铣机、五轴(RTCP)加工中心等工作母机,应用领域涵盖航空航天、汽车制造、3C电子、钟表制造、模具加工、及精密零部件加工等产业。

渡扬数控有着雄厚的技术力量和制造能力,拥有多名长期从事数控机床开发及研究的资深工程师。公司不断的引进国内外先进的技术、生产设备及精密镭射干涉仪等检测设备,为制造优质的机床保驾护航。公司自始至终坚持“以客户满意为己任”的售后服务理念,得到了广大客户的认可及肯定,深受市场的好评及客户的青睐。

渡扬数控为了响应市场需求,各系列机床可以根据不同客户的需求,定做客户自己差异化的机床。渡扬数控每台设备从设计研发、生产制造到检验出厂的每一流程,都经过严格的测试和检验。我们坚持以严苛的检测标准,努力将误差降至更低,保证机床切削过程的刚性以及长期运转的稳定性,为客户发挥更大的效益,创造更大的价值。

渡扬数控为解决行业内的用工难、人才难的困扰,联合国内多所技工院校创办了渡扬数控培训基地,为您输送设备的同时也为您提供人才输送,解决企业的后顾之忧。

渡扬数控,助您扬帆启航!

Kunshan Duyang CNC Machine Tool Equipment Co., Ltd. is located in the beautiful watery town in southern China - Precision Mold Intelligent Manufacturing Zone, No. 3887, North Gate Road in the north of Kunshan City, a self-built factory. Duyang CNC is a new high-tech enterprise specializing in the manufacture of CNC machine tool equipment, which integrates R&D, production, sales and services. Its main products including vertical machining center machine, gantry machining center machine, high-speed drilling and tapping machine, high-speed engraving and milling machine, 5-axis (RTCP) machining center and other machine tools, with applications covering aerospace, automobile manufacturing, 3C electronics, clock and watch manufacturing, mold machining, and precision parts machining and other machining industries.

The company has a strong technical force and manufacturing capacity, and has a number of senior engineers who have been engaged in the development and research of CNC machine tools for a very long time. The company constantly introduces domestic and foreign advanced technology, production equipment and precision laser interferometer and other testing equipment for the manufacture of high-quality machine tools. The company has always adhered to the after-sales service concept of "Taking customer satisfaction as our own responsibility", which has been recognized and affirmed by the majority of customers, and has been highly praised by the market and favored by customers.

In order to respond to market demand, each series of CNC machine tools can be customized according to different customer needs and customers can get their own differentiated machine tools. Every process of CNC machine tool equipment, from the design and development, manufacturing to the factory inspection, are rigorously tested and inspected. We adhere to strict testing standards, and strive to reduce errors to ensure the rigidity of the machine tool cutting process and the stability of long-term operation, so as to leverage greater benefits and create more value for our customers.

In order to solve the problem of difficulty in employing workers and talents, together with several domestic technical colleges and universities, jointly founded the Duyang CNC Training Base, to provide you with talents transfer while transporting you equipment, and to solve the worries of enterprises.

Duyang CNC, help you to sail!



Rigorous
Quality control system

严谨的
品质控制体系

Working Scene
工作场景

Company
Culture
企业文化

企业宗旨
Enterprise Purpose

以客户满意为己任。
"Take customer satisfaction as our own responsibility".

企业愿景
Enterprise Vision

做更有价值的机床。
"Make more valuable machine tools".

企业使命
Enterprise Mission

不负韶华，以梦为马，
持续为客户创造更大价值。
"Take dreams as horses,
live up to youth,
Continue create greater
value for customers".

Concentration makes professional 专注,成就专业

Six reasons to choose Duyang CNC

选择渡扬数控的六大理由



精益求精
不断引进先进技术
Striving for perfection
Continuous introduction of advanced technology



量身定制
为您打造专属产品
Tailor-made
Create a product exclusively for you



严苛的检测标准
Stringent testing standards



源头厂家,性能稳定
品质保障
Original manufacturer with
stable performance
Quality assurance



提供人才输送
解决您的后顾之忧
Provide talent transfer
Solve your worries



强大的售后
服务系统
Powerful after-sales service
Service system

Excellent R&D team 优秀的研发团队

勇于创新、追求品质
Innovative and quality-oriented

渡扬数控有着雄厚的技术力量和制造能力,拥有多名长期从事数控机床开发的资深工程师。公司不断的引进国内外先进的技术、生产设备及精密镗射干涉仪等检测设备,为制造优质的机床保驾护航。

渡扬数控为解决行业内的用工难、人才难的困扰,联合国内多所技工院校创办了渡扬数控培训基地,为您输送设备的同时也为您提供人才输送,解决企业的后顾之忧。

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Application fields

应用领域



医疗器械领域
Medical device field



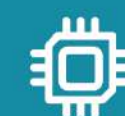
新能源制造领域
New energy manufacturing field



航天航空领域
Aerospace and aviation field



汽车制造领域
Automobile manufacturing field



3C电子领域
3C electronics field



模具制造领域
Mold manufacturing field

Customer Cases

客户案例

► 以客户满意为己任

Taking customer satisfaction as our responsibility



DY-T600/700/ 1100/2000

► 持续为客户创造更大价值
Continuing to create greater value for our customers

High Speed Drilling and Tapping Machine 高速钻攻机

适用于3C电子、新能源汽车、自动化、医疗器械、
航空航天、精密零部件等要求高的产品加工

Applicable to 3C electronics, new energy vehicles, automation, medical devices,
Aerospace, precision parts and other demanding products machining

1 高速度 High speed

通过机械与电气优越的结合，
可实现高速度运行。
The combination of mechanical and
electrical superiority enables high
speed operation.

2 高效率 High efficiency

配置进口伺服刀库，换刀时间更快
实现更高的加工效率。
Equipped with imported servo tool
magazine, it is faster for change tools.
and can realize higher machining
efficiency.

3 高精度 High Precision

进口高精度的传动系统设备进给
速度可达48m/min,运行更快、
精度更高。
Imported high-precision transmission
system Feed speed of the equipment
can reach 48m/min. Faster operation
and greater precision.

4 高稳定 High Stability

采用HT300精密树脂砂铸件，
保证了机床长期运行的稳定。
Using HT300 precision resin sand
castings. Ensures the stability of the
machine tool for long-term operation.



精密树脂砂铸件 | Precision resin sand casting



具有耐磨性高
With high abrasion
resistance and

结构稳定性强
Strong structural
stability

使机床长期运行
稳定性提供保障
Providing stability assurance
for long-term operation
of machine tools

产品性能 | Product Performance



铸件采用HT300精密树脂砂铸造, 常年使用不易变形, 可保证机床的稳定性。

The castings are made of HT300 precision resin sand casting, which is not easy to be deformed by long time use and can ensure the stability of the machine tool.

精密树脂砂铸件
Precision resin sand casting



具有抗干扰性强、故障率低、可靠性高、操作安全系数高等优点。

It has the advantages of strong anti-interference, low failure rate, high reliability, and high operation safety factor.

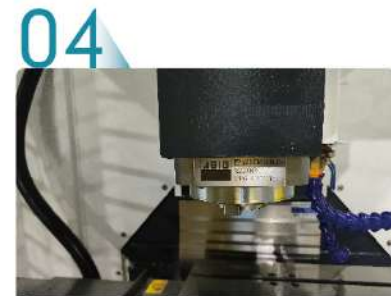
高集成智能电盘
Highly integrated intelligent electric panel



日本FANUC-0I-MF、日本三菱、台湾新代、华中系统等知名系统, 系统为模块式结构控制板高度集成、可靠性高、操作简单方便。

They adopt well-known systems such as Japan FANUC-0I-MF, Japan Mitsubishi, Taiwan SYNTec and Hua Zhong system. These systems are a modular structure control board highly integrated, with high reliability and simple and convenient operations.

先进的智慧化数控系统
Advanced intelligent CNC system



采用国内外知名品牌主轴, 可靠性高、噪音低、震动小、精密度高等优点。

They adopt famous domestic and international brand spindles, which have the advantages of high reliability, low noise, low vibration and high precision etc.

国内外品牌主轴
Domestic and international brand spindles



高速伺服刀库, 高速换刀、快速稳定, 大幅削减非加工的时段, 大大增加了加工的效率。

High-speed servo tool magazine, which is fast and stable and change tools at a high speed, thus dramatically reducing the non-machining time period and greatly increasing the efficiency of machining.

高速伺服刀库
High-speed servo tool magazine



知名品牌高精传动系统, C3级滚珠丝杆, P4级导轨, 可实现高精度位置控制, 提高机床轴向运行速度及保证了机床定位精度。

High-precision transmission system of famous brand, C3-grade ball screw, and P4-grade guide rail, can realize high-precision position control, and increase the axial machine speed of the machine tool and ensure the positioning accuracy of the machine tool.

导轨/丝杆
Guide Rail/Lead Screw

机床配置 | Configuration of the Machine Tool

- 控制系统: 日本 FANUC-0I-F Plus 数字式控制系统。
(可选配日本三菱、台湾新代、华中系统)
 - 三轴驱动电机: 全数字式伺服电机。
 - 主轴电机: 全数字式伺服主轴电机。
 - 主轴: 台湾德久/爱贝科/罗翌/台大/爱贝科/德久20000rpm主轴。
 - 自动润滑及润滑报警装置: HERG (河谷)/胜祥/贝奇尔、宝腾。
 - 传动系统: 台湾上银/银泰P4精密级线轨, C3级精密级丝杆。
 - 轴承: 日本NSK/德国FAG/瑞士SKF轴承, P4级。
 - 电柜: 专用电柜热交换恒温系统。
 - 手脉: 日本手持式电子手脉。
 - 联轴器: 尚工、德国R+W
 - 冷却泵: 渡扬。
 - 机身: 树脂砂精密机身。
 - 刀库: 夹臂式BT30-21T伺服刀库。
 - 随机资料: 操作编程--诊断说明、机床使用说明、装箱单。
- Control System: Japan FANUC-0I-F Plus digital control system.
(Japan Mitsubishi, Taiwan SYNTec, Hua Zhong systems are all optional)
 - Three-axis Drive Motors: fully digital servo motors.
 - Spindle Motor: full digital servo spindle motor.
 - Spindle: Taiwan DEJO / ABIG/ ROYAL/ T&D / ABIG / DEJO 20000rpm spindle.
 - Automatic Lubrication and Lubrication Alarm Device: HERG / Shengxiang /BIJUR/BAOTN.
 - Transmission System: Taiwan HIWIN/PMI P4 precision grade linear guide rails, C3 precision grade lead screws.
 - Bearing: Japan NSK/Germany FAG/Switzerland SKF bearings, P4 grade.
 - Electric cabinet: Heat exchange thermostat system for electric cabinets.
 - Manual Pulse Generator(MPG): handheld electronic MPG from Japan.
 - Coupling: NOBENGR or Germany R+W
 - Cooling pump: Duyang.
 - Body: Resin sand precision body.
 - Tool Magazine: Clamping arm type BT30-21T servo tool magazine.
 - Accompanying Documents: Operation Programming - Diagnostic Instructions, Instructions for Use of Machine Tools, Packing List.

▶ 备注: 如需特殊配置, 请联系技术服务电话, 订货时需在中项注明;
Note: If you need special configurations, please contact our technical service hotline. And when placing an order, you need to specify your special needs in the order;

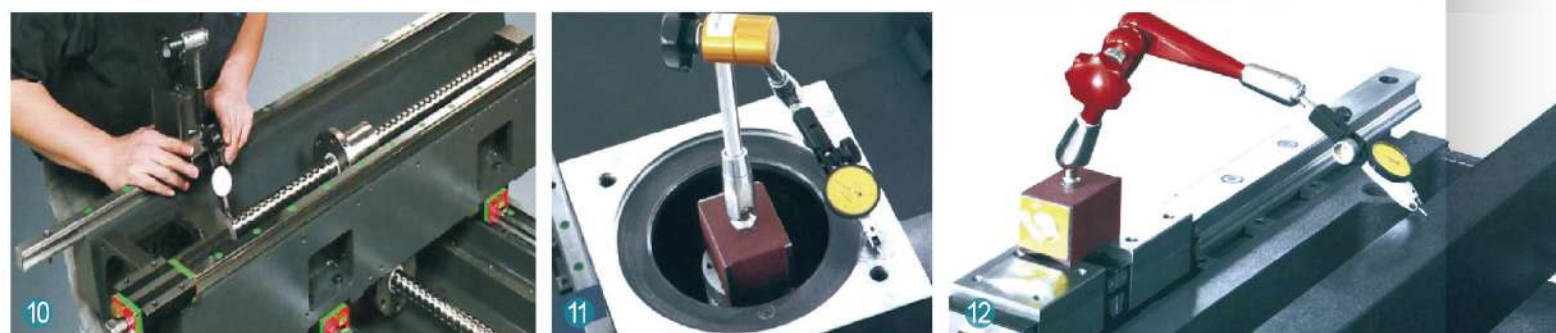
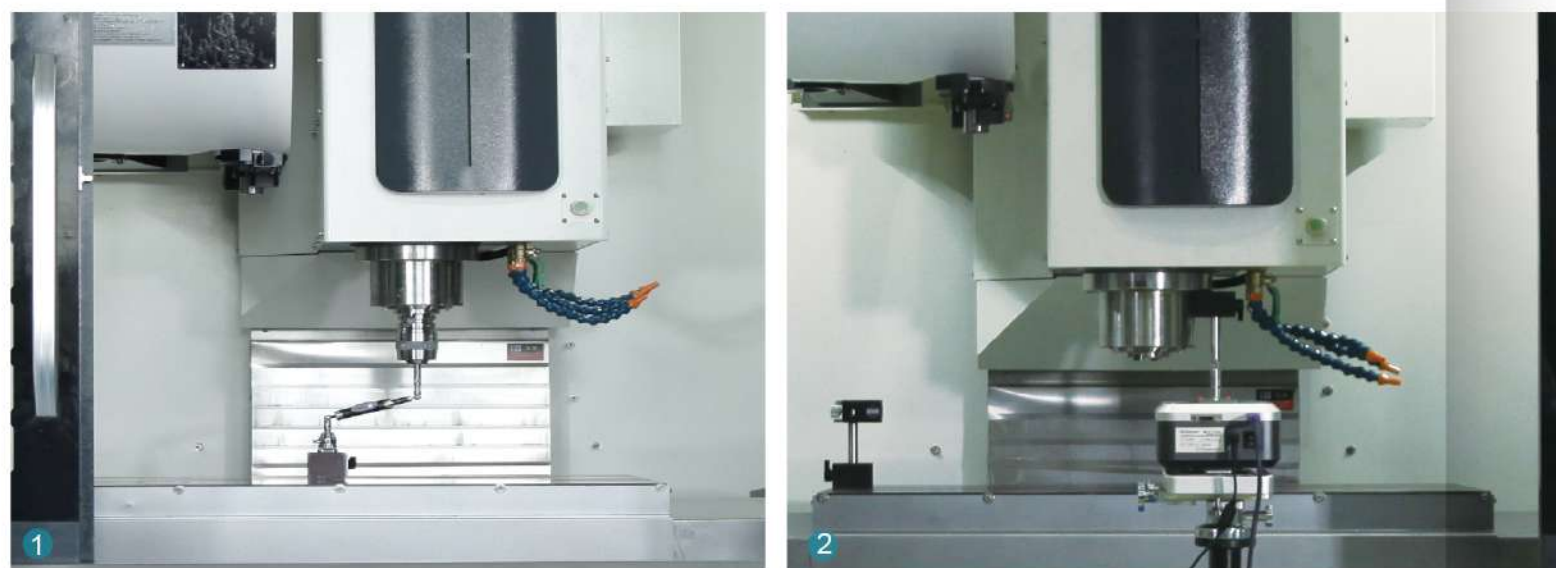
技术参数 | Technical Parameters

◆部分机型, 需要了解更多, 可联系我司业务 Want to know more about certain models, please contact our sales staff

项目 Item	单位 Unit	DY-T600	DY-T700	DY-T1100	DY-T2000
工作台面尺寸 Size of worktable	mm	700×420	780×420	1000×500	2000×600
工作台左右行程 (X向) Worktable left and right travel (X direction)	mm	600	700	1100	2000
工作台前后行程 (Y向) Worktable front and rear travel (Y direction)	mm	400	400	500	600
机头上下行程 (Z向) Machine head up and down travel (Z direction)	mm	300	350	420	450
工作台T型槽 (宽*槽数*间距) Worktable T-slot (width*number of slots*spacing)	mm	3-14×120	3-14×120	5-18×105	5×18-102/82
工作台最大承重 Maximum load of worktable	kg	250	300	600	600
主轴端面至工作台面距离 Distance from spindle end face to worktable surface	mm	155-455	120-470	120-540	120-570
主轴中心至立柱导轨距离 Distance from spindle center to guide rail of the column	mm	450	420	556	670
主轴锥孔 Spindle taper hole		BT30	BT30	BT30	BT30
刀库 Tool magazine	PCS	21	21	21	21
定位精度 Positioning Accuracy	mm	±0.005	±0.005	±0.005	±0.005
重复定位精度 Repeating Positioning Accuracy	mm	±0.003	±0.005	±0.005	±0.005
进给速度 (X/Y/Z) Feed speed (X/Y/Z)	m/min	48/48/48	48/48/48	36/36/24	36/36/24
主轴最高转速 Maximum speed of spindle	rpm	20000/24000	20000/24000	20000/24000	20000/24000
主轴驱动马达 Spindle drive motor	KW	3.7	3.7	3.7	3.7
整机重量 (约) Weight of the whole machine (approx.)	T	2.7	3	4.5	7.0
光机外形尺寸约 (长×宽×高) Dimensions of optical machine approx. (L×W×H)	mm	1790×2370×2140	1900×2640×2140	2820×2040×2320	4700×3100×2450

◆ 本公司随时在研究改进, 因此有随时更改设备的技术参数的权力, 变更时恕不另行通知, 请与我司业务在签订合同时确定。
Our company is always researching and improving, so we have the right to change the technical parameters of the equipment at any time without prior notice, so please confirm with our sales representatives at the time of signing the contract.

Strict Factory Inspection Standards 严格的出厂检验标准



1 球杆仪循圆检测 Ball-bar Circle Inspection	2 激光镭射检测 Laser Inspection	3 主轴偏摆检测 Spindle Deviation Inspection	4 机床水平调整 Leveling of Machine Tool
5 主轴动平衡检测 Spindle Dynamic Balance Inspection	6 直角度测量 Right Angle Measurement	7 主轴联轴器装配检测 Spindle Coupling Assembly Inspection	8 x轴与y轴直角度检测 X-axis and y-axis right angle measurement
9 丝杆螺母座精度检测 Lead screw nut holder accuracy inspection	10 丝杆及导轨装配过程中的真直度、平面度、及同心度的检测 Inspection of straightness, flatness and concentricity during assembly of lead screws and guide rails.	11 主轴安装面精度检测 Spindle mounting surface accuracy inspection	12 线轨的平行度精度检测 Parallelism accuracy of linear guide rails inspection
		13 三次元检测 Three-dimensional inspection	14 设备出厂前的产品试加工检测 Products trial machining inspection before the equipment leaves the factory



DY-855/856/1160/ 1165/1370SL

► 量产化零件加工利器
Good mass-production parts machining tools



Vertical Machining Center (Three Line Rail Series)

立式加工中心(三线轨系列)

高速度、高效率、高精度、适合批量件的
精密零部件产品加工

High-speed, high-efficiency, high-precision and suitable for the
machining of precision parts and components in large quantities

机床配置 | Configuration of the Machine Tool

- 控制系统: 日本 FANUC-0I-F Plus 数字式控制系统。
(可选配日本三菱M80、台湾新代、华中系统)
- 三轴驱动电机: 全数字式伺服电机。
- 主轴电机: 全数字式伺服主轴电机。
- 主轴: 台湾罗翌/台大/健椿/爱贝科/德久直联主轴。
- 自动润滑及润滑报警装置: 台湾裕祥/河谷。
- 传动系统: 台湾上银/银泰P4精密级线轨, C3 精密级丝杆。
- 增压缸: 台湾豪澄或臻赏。
- 轴承: 轴承: 日本NSK/德国FAG/瑞士SKF轴承, P4级。
- 电柜: 专用电柜热交换恒温系统。
- 手脉: 日本手持式电子手脉。
- 联轴器: 尚工、德国R+W
- 冷却泵: 渡扬。
- 机身: 树脂砂精密机身。
- 刀库: 台湾冈田/德速/北钜BT40-24T圆盘刀库。
- 主轴油冷: 瑞科、迪奥特。
- 随机资料: 操作编程——铣床、诊断说明、机床使用说明、装箱单。

- Control System: Japan FANUC-0I-F Plus digital control system.
(Japan Mitsubishi M80, Taiwan SYNTEC, Hua Zhong systems are all optional)
- Three-axis Drive Motors: fully digital servo motors.
- Spindle Motor: full digital servo spindle motor.
- Spindle: Taiwan ROYAL/T&D/KENTURN/ABIG/DEJO direct-connected spindle.
- Automatic Lubrication and Lubrication Alarm Device: Taiwan ISHAN / HERG
- Transmission System: Taiwan HIWIN/PMI P4 precision grade linear guide rails, C3 precision grade lead screws.
- Booster Cylinder: Taiwan Hao Cheng or CHEN SOUND.
- Bearing: Japan NSK/Germany FAG/Switzerland SKF bearings, P4 grade.
- Electric Cabinet: Heat exchange thermostat system for electric cabinets.
- Manual Pulse Generator(MPG): handheld electronic MPG from Japan.
- Coupling: NOBENGR or Germany R+W
- Cooling Pump: Duyang.
- Body: Resin sand precision body.
- Tool magazine: Taiwan Okada/AlMACH/POJU BT40-24T disc tool magazine
- Spindle Oil Cooling: Rucol or Diort.
- Accompanying Documents: Operation Programming - Milling Machine, Diagnostic Instructions, Instructions for Use of Machine Tools, Packing List.

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产品性能 | Product Performance

01



采用HT300精密树脂砂铸件, 宽大底座、加厚立柱和米字型加强筋结构, 保证了机床长期运行的稳定。

They use HT300 precision resin sand casting and have wide base, thickened column and double cross shaped reinforcement structure, which ensure the stability of long-term operation of the machine tool.

精密树脂砂铸件
Precision resin sand casting

02



高速换刀, 节省时间, 提高加工效率。

High-speed tool changing saves time and improves the machining efficiency.

24把高速刀库
24 high-speed tool magazines

03



搭配高精度的传动系统(P4级线性导轨C3滚珠丝杆), 进给速度快, 运行更稳定、精度更高。

With high-precision transmission system (P4 grade linear guide rails and C3 ball screws), they have a fast feed speed, more stable operation and higher precision.

高精度的传动系统
High-precision transmission system

04



采用国内外知名品牌BBT40/50主轴, 可靠性高、噪音低、震动小、精密高等优点

They adopt BBT40/50 spindles of domestically and internationally famous brands, which have the advantages of high reliability, low noise, low vibration and high precision

知名品牌主轴
Spindles of famous brands

► 该系列产品具备高速、高效、高精加工特点, 适用于各类形状复杂、工序多, 需要繁多刀具、工装才能完成加工的批量零件。
广泛应用于电子、机械、自动化、医疗等领域的零部件产品的加工。

This series of products have the machining features of high speed, high efficiency and high precision, which are suitable for all kinds of batch parts with complicated shapes, many working procedures, and needing a lot of cutting tools and toolings to complete the machining.
They are widely used in machining of parts and components products in electronics, machinery, automation, medical and other fields.

技术参数 | Technical Parameters

◆部分机型, 需要了解更多, 可联系我司业务 Want to know more about certain models, please contact our sales staff.

项目 Item	单位 Unit	DY-855SL	DY-856SL	DY-1160SL	DY-1165SL	DY-1370SL
工作台面尺寸 Size of worktable	mm	550×1000	500×1000	600×1300	600×1300	700×1500
工作台左右行程 (X向) worktable left and right travel (X direction)	mm	800	800	1100	1100	1300
工作台前后行程 (Y向) Worktable front and rear travel (Y direction)	mm	550	550	600	650	700
机头上下行程 (Z向) Machine head up and down travel (Z direction)	mm	550	600	600	600	700
工作台T型槽 (宽*槽数*间距) Worktable T-slot (width*number of slots*spacing)	mm	5-18×100	5-18×100	5-18×100	5-18×100	5-22×135
工作台最大承重 Maximum load of worktable	kg	500	600	800	800	1000
主轴端面至工作台面距离 Distance from spindle end face to worktable surface	mm	130-680	110-710	180-780	150-750	160-860
主轴中心至立柱导轨距离 Distance from spindle center to guide rail of the column	mm	590	589	660	689	740
主轴锥孔 Spindle taper holes		BT40	BT40	BT40	BT40	BT50
刀库 Tool magazine	PCS	24	24	24	24	24
定位精度 Positioning Accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005
重复定位精度 Repeating Positioning Accuracy	mm	±0.003	±0.003	±0.003	±0.003	±0.003
进给速度 (X/Y/Z) Feed speed (X/Y/Z)	m/min	48/48/48	48/48/48	36/36/24	36/36/24	24/24/18
主轴最高转速 Maximum speed of spindle	rpm	12000/15000	12000/15000	12000/15000	12000	8000
主轴驱动马达 Spindle drive motor	KW	7.5	7.5	11	11	11/15
整机重量 (约) Weight of the whole machine (approx.)	T	3.5	4.4	6	6.5	8.5
光机外形尺寸约(长×宽×高) Dimensions of optical machine approx. (L×W×H)	mm	2400×2830×2800	2400×2830×2800	3000×2990×2960	3000×2990×2960	3800×2650×2800

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Our company is always researching and improving, so we have the right to change the technical parameters of the equipment at any time without prior notice, so please confirm with our sales representatives at the time of signing the contract.

DY-850/970/1270/ 1370/1580L

► 精密模具/零件产品加工利器
Good machining tools for precision molds/parts products



Vertical Machining Center (2 Line Rail and 1 Hard Rail Series)

立式加工中心(二线一硬系列)

中高速 重切削综合型加工中心

Medium and high speed machining center with integrated heavy cutting

机床配置 | Configuration of the Machine Tool

- 控制系统: 日本 FANUC-0i-F Plus 数字式控制系统。
(可选配日本三菱M80、新代、华中系统)
- 三轴驱动电机: 全数字式伺服电机。
- 主轴电机: 全数字式伺服主轴电机。
- 主轴: 台湾罗翌/台大/健椿/爱贝科/德久主轴。
- 自动润滑及润滑报警装置: HERG (河谷) /胜祥/贝奇尔/宝腾。
- 传动系统: 台湾上银/银泰P4精密级线轨, C3 精密级丝杆。
- 增压缸: 台湾豪澄或臻赏。
- 轴承: 日本NSK/德国FAG/瑞士SKF轴承, P4级。
- 电柜: 电柜热交换恒温系统。
- 手脉: 日本手持式电子手脉。
- 联轴器: 尚工、德国 R+W。
- 冷却泵: 渡扬。
- 机身: 树脂砂精密机身。
- 刀库: 台湾德速/北钜BT40-24T圆盘刀库。
- 主轴油冷: 瑞科、迪奥特。
- 随机资料: 操作编程——铣床、诊断说明、机床使用说明、装箱单。

- Control system: Japan FANUC-0i-F Plus digital control system.
(Japan Mitsubishi M80, Taiwan SYNTEC, Hua Zhong systems are all optional)
- Three-axis Drive Motor: full digital servo motor.
- Spindle Motor: Full digital servo spindle motor.
- Spindle: Taiwan ROYAL/T&D/KENTURN/ABIG/DEJO spindle.
- Automatic Lubrication and Lubrication Alarm Device: HERG / Shengxiang /BIJUR/ BAOTN.
- Transmission System: Taiwan HIWIN/PMI P4 precision grade linear guide rails, C3 precision grade lead screws.
- Booster Cylinder: Taiwan Hao Cheng or CHEN SOUND.
- Bearing: Japan NSK/Germany FAG/Switzerland SKF bearings, P4 grade.
- Electric Cabinet: Heat exchange thermostat system for electric cabinets.
- Manual Pulse Generator (MPG): handheld electronic MPG from Japan.
- Coupling: NOBENGR or Germany R+W.
- Cooling Pump: Duyang.
- Body: Resin sand precision body.
- Tool Magazine: Taiwan AIMACH/POJU BT40-24T disc tool magazine
- Spindle Oil Cooling: Rucol or Diort.
- Accompanying Documents: Operation Programming - Milling Machine, Diagnostic Instructions, Instructions for Use of Machine Tools, Packing List.

► 备注: 如需特殊配置, 请联系技术服务电话, 订货时需在订单中专项注明;

Note: If you need special configurations, please contact our technical service hotline. And when placing an order, you need to specify your special needs in the order;

产品性能 | Product Performance

01

铸件采用HT300精密树脂砂, 宽大底座、加厚立柱和米字型加强筋结构, 保证了机床长期运行的稳定。
The castings are made of HT300 precision resin sand and the products have wide base, thickened column and double cross shaped reinforcement structure, which ensure the stability of long-term operation of the machine tool.

精密树脂砂铸件
Precision resin sand casting

02

高速换刀, 节省时间, 提高加工效率。
High-speed tool change, save time, improve processing efficiency.

24把高速刀库
24 high-speed tool magazines

03

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高精度的传动系统
High-precision transmission system

04

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知名品牌主轴
Spindles of famous brands

► 该系列产品独特的高刚性结构设计, 切削能力较传统同等机型效率提高30~50%, 在精密零件及模具加工中的精度、光洁度更具优势。广泛应用于各类形状复杂、精度要求高的模具、模胚、五金、汽配、航天航空、医疗器材、3C电子等领域的产品加工。

This series of products have a unique design of high rigidity structure and their cutting efficiency increased by 30~50% than efficiency of conventional equivalents, and their accuracy and finish in machining precision parts and mold are more advantageous.

They are widely used in machining of all kinds of complicated shaped and accuracy demanding products in molds, die blanks, hardware, auto accessories, aerospace and aviation, medical equipment, 3C electronics and other industries.

技术参数 | Technical Parameters

◆部分机型, 需要了解更多, 可联系我司业务 Want to know more about certain models, please contact our sales staff.

项目 Item	单位 Unit	DY-850L	DY-970L	DY-1270L	DY-1370L	DY-1580L
工作台面尺寸 Size of worktable	mm	500×1000	600×1300	700×1360	700×1500	800×1700
工作台左右行程 (X向) worktable left and right travel (X direction)	mm	800	1100	1200	1300	1500
工作台前后行程 (Y向) Worktable front and rear travel (Y direction)	mm	500	700	700	700	800
机头上下行程 (Z向) Machine head up and down travel (Z direction)	mm	500	700	600	780	700
工作台 T 型槽 (宽*槽数*间距) Worktable T-slot (width*number of slots*spacing)	mm	5-18×90	5-18×110	5-18×122	5-22×135	5-22×135
工作台最大承重 Maximum load of worktable	kg	450	800	1000	1000	1500
主轴端面至工作台面距离 Distance from spindle end face to worktable surface	mm	560	700	784	784	810
主轴中心至立柱导轨距离 Distance from spindle center to guide rail of the column	mm	110-610	100-800	87-687	130-910	130-830
主轴锥孔 Spindle taper holes		BT40	BT40	BT50	BT50	BT50
刀库 Tool magazine	PCS	24	24	24	24	24
定位精度 Positioning Accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005
重复定位精度 Repeating Positioning Accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005
进给速度 (X/Y/Z) Feed speed (X/Y/Z)	m/min	24/24/18	24/24/16	24/24/16	24/24/16	18/18/16
主轴最高转速 Maximum speed of spindle	rpm	8000	8000	8000	8000	8000
主轴驱动马达 Spindle drive motor	KW	7.5	7.5/11	15	15	15
整机重量 (约) Weight of the whole machine (approx.)	T	4	4.9	7.5	7.85	10
光机外形尺寸约(长×宽×高) Dimensions of optical machine approx. (L×W×H)	mm	2400×2830×2800	3100×2895×2819	3800×2650×2800	3800×2650×2800	4420×3230×2400

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► 复杂零件克星/螺旋加工利器
Complex parts and spiral machining star.

SDK-U500

Gantry Type Heavy Duty Five-axis Series

天车式重载型五轴系列



SDK-U500介绍 | Introduction of SDK-U500

SDK-U500五轴联动（带RTCP功能）加工中心，是一款我公司自主开发研制的具备高刚性、高速度、高精度的专注于大、中型复杂曲面的高科技数控机床，可用于3C复杂精密零件，叶轮、精密模具、航天航空，高精医疗器械等领域。

SDK-U500 5-axis linkage (with RTCP function) machining center is a high-tech CNC machine tool with high rigidity, high speed and high precision developed independently by our company, focusing on large and medium-sized complex surfaces, which can be used in the fields of 3C complex precision parts, impellers, precision molds, aerospace industry and high-precision medical equipment.

机床特点 | Features of SDK-U500

SDK-U500采用天车式龙门结构，五轴转台固定安装的方式，使其整机具有更高的刚性及稳定性，为机床整体精度提供了有更有力的精度支撑，同时3轴的运行不受转台的影响，也具有更高的响应速度和更高的稳定性，铣削、高速钻孔、精密镗销、刚性攻丝等多种加工方式，具备了完成多样化产品的需求、可应用于航天、航空、新能源、精密机械、精密医疗等各个领域。采用新代最新220MA五轴系统，具有更便捷的开发界面，可实现人机交互，智能化生产线的搭建更人性化及多样化。

SDK-U500 adopts overhead gantry structure and five-axis rotary worktable fixed installation, so that the whole machine has a higher rigidity and stability to provide strong precision support for the overall precision of the machine tool, while the operation of 3-axis is not affected by the rotary worktable and has a higher response speed and higher stability. It has milling, high-speed drilling, precision boring pins, rigid tapping, and many other machining modes, and has the ability to satisfy the needs for diversified products, which can be used in aerospace, aviation, new energy, precision machinery, precision medical care and other fields. Adopting the latest 220MA five-axis system, it has a more convenient development interface, which can easily realize human-machine interaction and make the construction of intelligent production line more humanized and diversified.

SDK-U400

► 复杂零件克星/螺旋加工利器
Complex parts and spiral machining star.

High Speed And Rigidity Five-axis Series

高速高刚性五轴系列



SDK-U400介绍 | Introduction of SDK-U400

SDK-U400五轴联动（带RTCP功能）加工中心，是一款我公司自主开发研制的具备高刚性、高速度、高精度的专注于中、小型复杂曲面的高科技数控机床，可用于3C复杂精密零件，叶轮、精密模具、航天航空，高精医疗器械等领域。

SDK-U400 5-axis linkage (with RTCP function) machining center is a high-tech CNC machine tool with high rigidity, high speed and high precision developed independently by our company, focusing on small and medium-sized complex curved surfaces, which can be used in the fields of 3C complex precision parts, impellers, precision molds, aerospace industry and high-precision medical equipment.

机床特点 | Features of SDK-U400

SDK-U400采用的是立式数控中心结构、具有铣削、高速钻孔、精密镗销、刚性攻丝等多种加工方式，具备了完成多样化产品的需求、可应用于航天、航空、新能源、精密机械、精密医疗等各个领域。采用华中最新848D五轴数控系统，具有更便捷的开发界面，可实现人机交互，智能化生产线的搭建更人性化及多样化。

SDK-U400 adopts a vertical CNC center structure and has milling, high-speed drilling, precision boring pin, rigid tapping and many other machining modes, and has the ability to satisfy the needs for diversified products, which can be used in aerospace, aviation, new energy, precision machinery, precision medical care and other fields. Adopting the latest Hua Zhong 848D 5-axis CNC system, it has a more convenient development interface, which can easily realize human-machine interaction and make the construction of intelligent production line more humanized and diversified.

► 复杂零件克星/螺旋加工利器
Complex parts and spiral machining star.

SDK-U280

High Speed
Five-axis Series
高速五轴系列



SDK-U280介绍 | Introduction of SDK-U280

U280五轴立式加工中心是自主研发的一款具备高速、高精功能专门用于加工小型复杂曲面的高性价比机床，可用于加工3C复杂零件、叶轮、小型叶片、小型螺旋桨、曲轴等工业产品。

U280 5-axis vertical machining center is a cost-effective machine tool with high speed and high precision developed independently by our company, focusing on small-sized complex curved surfaces, which can be used in the fields of 3C complex parts, impellers, small blades, small propellers, crankshafts and other industrial products.

机床特点 | Features of SDK-U280

机床刚性强、结构对称，动态响应速度块，精度高、稳定性好。机床具备铣、钻、镗、铰、攻等多重工序加工。零件一次装夹可自动、高效、高精度的连续完成零件多个面的多种工序加工，包括斜面、曲面等复杂工序的加工。可广泛应用于国家的航空、航天、军事、汽车、精密器械、高精医疗设备的行业。

The machine tool has strong rigidity and a symmetrical structure and is characterized by fast dynamic response speed, high precision and good stability. The machine tool is capable of milling, drilling, boring, reaming, tapping and other multi-process machining. A single clamping of the part can automatically, efficiently and with high accuracy continuously complete the machining of multiple processes on multiple surfaces of the part, including machining of beveled surfaces, curved surfaces and other complex processes. It can be widely used in our country's aviation, aerospace, military, automotive, precision instruments, and high-precision medical equipment industries.

技术参数 | Technical Parameters

◆部分机型，需要了解更多，可联系我司业务 Want to know more about certain models, please contact our sales staff.

项目 Item		单位 Unit	SDK-U500	SDK-U400	SDK-U280
加工范围 Machining Scope	横向 X行程 Horizontal X travel	mm	500	600	600
	纵向 Y行程 Longitudinal Y travel	mm	500	400	400
	垂直 Z行程 Vertical Z travel	mm	460	500	350
	A轴行程 A-axis travel	Arc.sec	±120°	±120°	±90°
	C轴行程 C-axis travel	Arc.sec	360°	360°	360°
	工件最大回转直径 Maximum rotary diameter of workpiece	mm	500	400	280
	主轴端面至工作台距离 Distance from spindle end face to worktable	mm	0-460	0-500	0-350
	台面尺寸 Size of worktable	mm	Φ320	Φ260	Φ200
工作台 Worktable	最大承重 Maximum load	Kg	60	160	50
	T型槽数量 Number of T-slots	No.	4	4	4
	T型槽尺寸/间距 T-slot size/spacing	mm	90°	90°	90°
主轴 Spindle	驱动方式 Drive mode		直连驱动 Direct connection drive	直连驱动 Direct connection drive	直连驱动 Direct connection drive
	主轴转速 Spindle speed	rpm	15000	15000	20000
	主电机功率 Power of main motor	Kw	15	11	5.5
	主轴冷却 Spindle cooling	瑞科 RUCOL	油冷机 Oil cooling machine	油冷机 Oil cooling machine	油冷 Oil cooling
伺服轴 Servo axis	X轴快速移动速度 X-axis rapid traverse speed	m/Min	24	36	48
	Y轴快速移动速度 Y-axis rapid traverse speed	m/Min	24	36	48
	Z轴快速移动速度 Z-axis rapid traverse speed	m/Min	24	36	48
	A轴快速移动速度 A-axis rapid traverse speed	m/Min	6	6	6
	C轴快速移动速度 C-axis rapid traverse speed	m/Min	6	6	6
	X、Y、Z轴丝杠螺距 X, Y, Z axis screw pitch	mm	12	12	16
	X/Y/Z切削进给速度 X/Y/Z cutting feed speed	m/min	12	12	16
	最小进给量 Minimum feed	mm	0.0001	0.0001	0.0001
刀库系统 Tool magazine system	刀库容量 Tool magazine capacity	PCS	24	24	21
	刀库形式 Type of tool magazines		斗笠式伺服刀库 Bamboo hat type servo tool magazine	刀臂式 Tool arm type	斗笠式伺服刀库 Bamboo hat type servo tool magazine
	刀柄规格 Specification of tool shank		BT40	BT40	BT30
主要精度 Main numerical precision	定位精度GB/T34880.2-2017 Positioning Accuracy GB/T34880.2-2017	mm	0.006	0.006	0.005
	重复定位精度GB/T34880.2-2017 Repeating Positioning Accuracy GB/T34880.2-2017	mm	0.006	0.006	0.005
其它 Other	气源压力 Air Source Pressure	MPa	≥0.6	≥0.6	≥0.6
	占地空间 Floor Space	mm	3100*4000*3200	2800*2600*2600	2000*2400*2400
	电力容量 Electricity Capacity	KW	30	25	15
	润滑油容量 Lubricant Capacity	L	4	4	3
	切削液容量 Cutting Fluid Capacity	L	280	280	180
	机床重量 Machine Weight	Kg	6000	5000	3000

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Equipment used by customers- Demonstration of Machining Products 客户使用设备-加工产品展示

► 持续为客户创造更大价值
Continuing to create greater value for customers



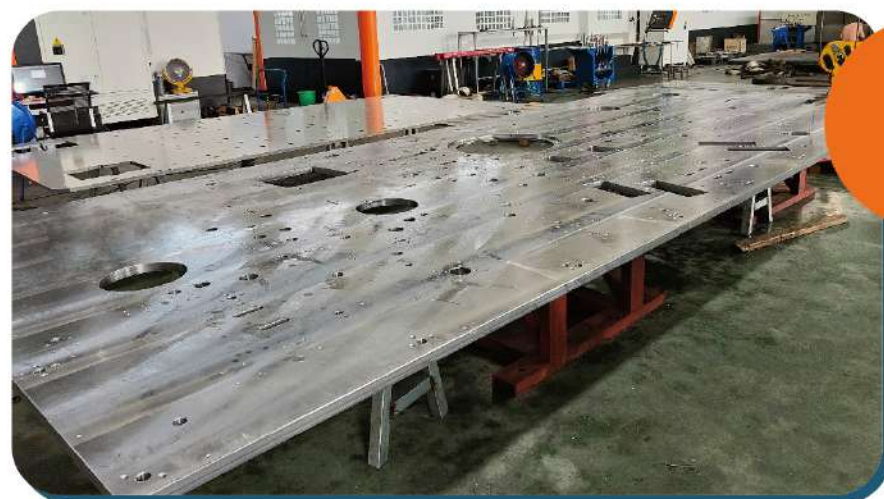
DY-1614/2013/ 2719/4028L

► **大型模具/板材/焊接件加工利器**
Good machining tools for large-sized mold/plate welding parts

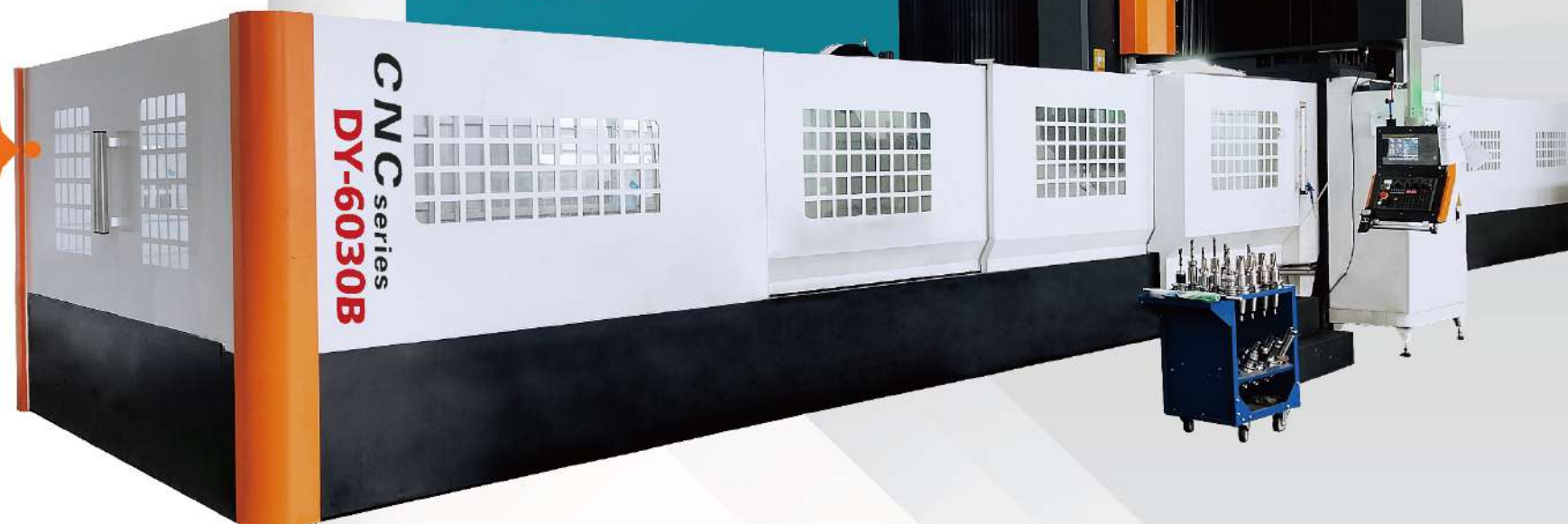
Gantry Machining Center Series

龙门加工中心系列

高速度、高精度龙门加工中心
High-speed, high-precision gantry machining center



板材
Plate



产品性能 | Product Performance

01



采用HT300精密树脂砂铸件, 宽大底座、加厚加宽横梁结构, 保证了机床刚性及长期运行的稳定。

They use HT300 precision resin sand casting and have wide base, thickened and widened beam structure to ensure the rigidity of the machine and its stability of long-term operation.

精密树脂砂铸件

Precision resin sand casting

02



高速换刀, 节省时间, 提高加工效率。

High-speed tool changing saves time and improves machining efficiency.

24/32把高速刀库

24/32 high-speed tool magazines

03



搭配高精度的传动系统 (P4级线性导轨C3滚珠丝杆), 进给速度快, 运行更稳定、精度更高。

With high-precision transmission system (P4 grade linear guide rails and C3 ball screws), they have a fast feed speed, more stable operation and higher precision.

高精度的传动系统

High-precision transmission system

04



BT50皮带主轴, 转速6000转, 重切削、中转速、高精度。

BT50 belt spindle with a speed of 6000 rpm, which has heavy cutting, a medium speed and high precision.

台湾知名主轴

Famous Spindle from Taiwan

► 该系列适用于汽车工业、工程机械、模架加工、大型模具、自动化等领域的产品加工。

This series are suitable for machining products in automobile, engineering machinery, mold frame machining, large-sized molds, automation and other industries.

DY-6030B

Gantry Machining Center Series

龙门加工中心系列

高速度、高精度龙门加工中心

Gantry machining center with high-speed and high-precision

机床配置 | Configuration of the Machine Tool

- 控制系统: 日本 FANUC-0I-MF 数字式控制系统。
(可选配日本三菱M80、台湾新代、华中系统)
 - 三轴驱动电机: 全数字式伺服电机。
 - 主轴电机: 全数字式伺服主轴电机。
 - 主轴: 台湾罗翌/台大/爱贝科主轴。
 - 自动润滑及润滑报警装置: HERG (河谷) / 胜祥/贝奇尔、宝腾。
 - 传动系统: 台湾上银/银泰P4精密级线轨, C3 精密级丝杆。
 - 增压缸: 台湾豪澄或臻赏。
 - 轴承: 日本NSK/德国FAG/瑞士SKF轴承, P4级。
 - 电柜: 电柜热交换恒温系统。
 - 手脉: 日本手持式电子手脉。
 - 联轴器: 尚工、德国 R+W。
 - 冷却泵: 渡扬。
 - 机身: 树脂砂精密机身。
 - 刀库: 台湾德速BT50-24T圆盘刀库。
 - 主轴油冷: 瑞科、迪奥特。
 - 随机资料: 操作编程——铣床、诊断说明、机床使用说明、装箱单。
- 备注: 如需特殊配置, 请联系技术服务电话, 订货时需在订单中专项注明;
Note: If you need special configurations, please contact our technical service hotline. And when placing an order, you need to specify your special needs in the order;

技术参数 | Technical Parameters

◆部分机型, 需要了解更多, 可联系我司业务 Want to know more about certain models, please contact our sales staff

项目 Item	单位 Unit	DY-1614L	DY-2013L	DY-2719L	DY-4028L	DY-6030B
加工范围 Machining Scope	X轴行程 X-axis travel	mm	1700	2000	2700	4000
	Y轴行程 Y-axis travel	mm	1500	1300	1900	2800
	Z轴行程 Z-axis travel	mm	800	700	1000	1000
	龙门跨距 Gantry span	mm	1560	1450	1900	2800
	主轴鼻端至工作台距离 Distance from spindle nose to worktable	mm	120-920	150-790	250-1250	250-1250
工作台 Worktable	工作台面积 Worktable area	mm	1700×1200	2000×1200	1700×2700	2400×4000
	最大承重 Maximum load	T	3	3	6	15
	T型槽数量 Number of T-slots	NO.	7	7	11	13
	T型槽间距/尺寸 T-slot spacing/size	mm	22×175	22×170	22×160	28×200
主轴规格 Specifications of spindle	主轴传动方式 Spindle drive mode		直连 Connect directly	直连 Connect directly	皮带 Belt	皮带 Belt
	主轴电机功率 Power of spindle motor	KW	11	11	18.5	22
	主轴转速 Spindle speed	rpm	6000/10000	6000/10000	6000	6000
	主轴电机锥度及规格 Taper and specifications of spindle motor		BT40/BT50	BT50	BT50	BT50
	拉钉规格 Specifications of rivet		BT40/BT50	BT50	BT50	BT50
进给速率 Feed speed	X/Y/Z快速移动 X/Y/Z rapid traverse	m/min	18/18/18	18/18/18	18/18/18	16/16/16
	X/Y/Z切削速率 X/Y/Z cutting speed	m/min	10/10/10	10/10/10	8/8/8	8/8/8
刀库 (选配) Tool magazine (optional)	刀库容量 Tool magazine capacity	PCS	24	24	24	24
	刀库类型 Tool magazine type		圆盘式 Disc type	圆盘式 Disc type	圆盘式 Disc type	圆盘式 Disc type

● 本公司随时在研究改进, 因此有随时更改设备的技术参数的权力, 变更时恕不另行通知, 请与我司业务在签订合同时确定。
Our company is always researching and improving, so we have the right to change the technical parameters of the equipment at any time without prior notice, so please confirm with our sales representatives at the time of signing the contract.



企业宗旨:
以客户满意为己任
企业愿景:
做最有价值的机床
使命:
不负重托 以梦为马
创造最大价值

After-sales Service

售后服务

渡扬数控始终贯彻以客户满意为己任的售后服务理念, 完善个性化服务体系搭建。提供24小时在线服务响应机制, 48小时内到达客户现场准则, 为客户排忧解难。并提供整机质保二年, 终身维护的售后保障。

Duyang CNC has always adhered to and implemented the after-sales service concept of "Taking customer satisfaction as our own responsibility", and always improves the construction of our personalized service system. Our company provides a 24-hour online service response mechanism and adheres to the guideline of arriving at the customer's site within 48 hours, in order to solve customers' problems and worries. We also provide the whole machine warranty of two years and after-sales service of lifelong maintenance.

中国售后电话 After-sales phone number in China: 0086 18112653730
越南售后电话 After-sales phone number in Vietnam: 0084 827 967836

Installation and Commissioning 安装调试

机床到达生产场地、我司人员会在24小时内安排专业人员上门完成安装调试, 并指导买方如何使用设备。

When the machine arrives at the production site, our staff will arrange professional personnel within 24 hours to complete the on-site installation and commissioning. And we will instruct the buyer how to use the machine.

Quality Service 品质服务

最终验收合格之日起, 对产品实行整机 12 个月的三包服务, 在质保期内对产品实行免费维修。

From the date of final acceptance, the product will be subject to a 12-month warranty for the whole machine, and free maintenance will be carried out during the warranty period.



4 Exclusive Services 大专享服务

Provide you with better service experience and round-the-clock services.
让您获得更好的服务体验
全天候服务

System of Regular Follow-up Visits 定期回访制度

在服务期间, 我司技术人员会定期到客户现场回访, 检查机床各项指标。让机床始终处在最佳状态并指导客户对设备做日常的维护及保养。

During the service period, our technicians will regularly visit the customer's site to check various indicators of the machine tool, keeping the machine tool in its best condition all the time. We will also guide our customers to do routine maintenance and upkeep of their machines.

Technical Training 技术培训

培训内容以实际项目相关, 对机械、系统、操作、维护保养等相关内容进行培训。
The training content is based on actual projects and includes training on machinery, systems, operation, and maintenance, etc.