



宝鸡机床集团有限公司  
宝鸡忠诚精密数控设备有限责任公司

地址: 中国陕西省宝鸡市高新区十一路  
销售电话: +86-917-3907251 3907281  
24小时服务热线: +86-917-2762958 3907251  
传真: +86-917-3907131  
邮编: 721013  
网址: www.bjjmsk.com  
邮箱: jmsk@bjmtw.com

**Baoji Machine Tool Group Co., Ltd.**  
**Baoji Zhongcheng Precision CNC Equipment Co., Ltd.**

Add: Gaoxin 11 st Road, Baoji City, Shaanxi, China  
Sales Tel: +86-917-3907251 3907281  
24 hours After Sale: +86-917-2762958 3907251  
Fax: +86-0917-3907131  
Postcode: 721013  
Http: www.bjjmsk.com  
E-mail: jmsk@bjmtw.com

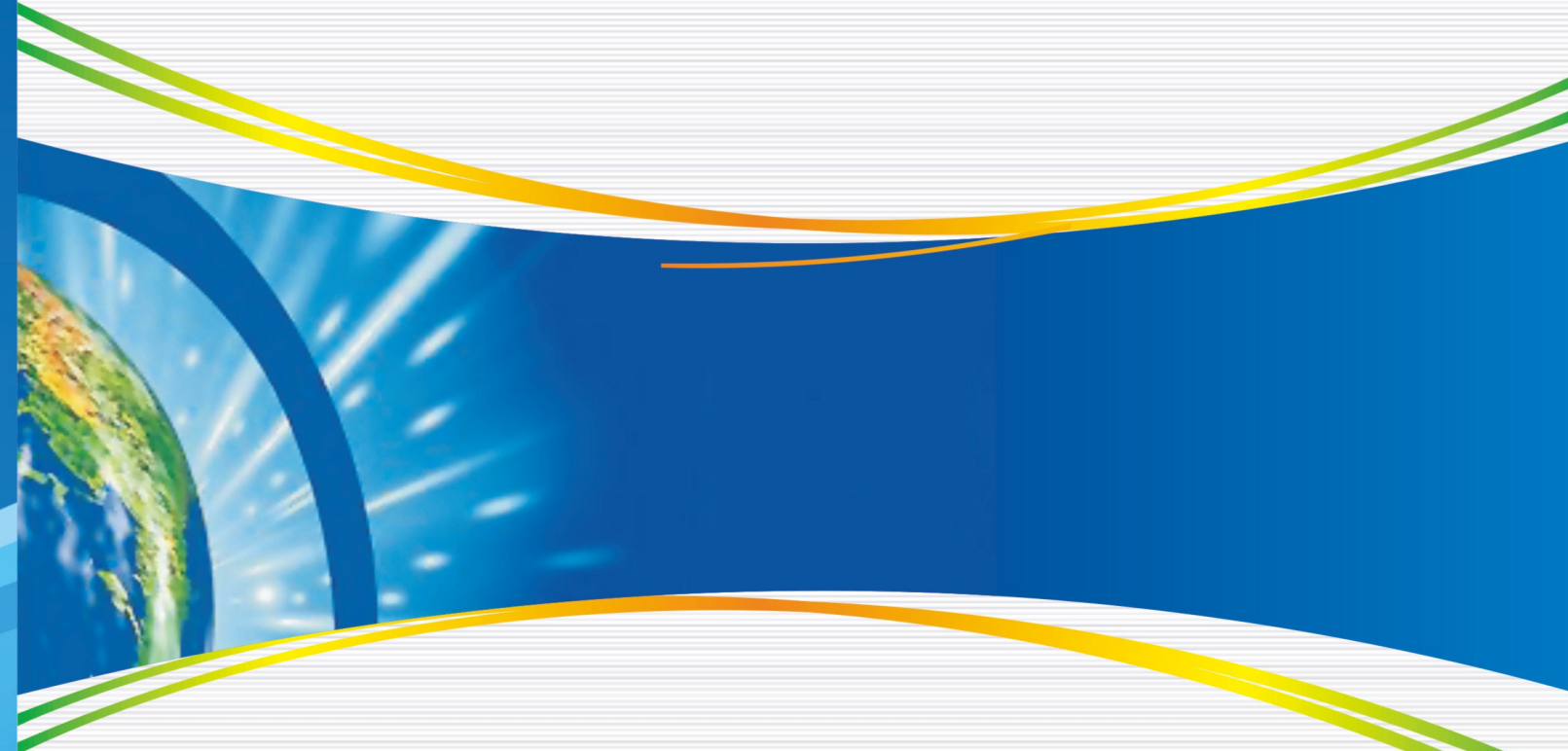


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# 数控车床

## CNC LATHE



宝鸡机床集团有限公司  
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# About us 关于我们



- Baoji Zhongcheng Precision CNC Equipment Co., Ltd (Hereinafter called “PRECISION CNC MACHINE”) is a subsidiary of Hi-tech enterprise. Its total assets are RMB 80 million yuan; annual productive value is RMB 120 million yuan.
- Baoji Machine Tool Group is a backbone of China Machine Tool & Tool Industry, a leading metal cutting machine builder in China.Total assets are 1.9 billion Yuan; number of employees is over 3500,number of professional technicians is over 600, and have more than 300 senior engineers, senior workers and technicians. Annual output is 20 thousand machines; value is 3 billion Yuan; export exchange is USD 22 million, the main business income steadily ranks the top three in the national machine tool industry.
- Following the brand managing target---Make best quality parts; assemble precision machines; be high qualified employee; create world level brand, with 12 subsidiaries --- Baoji Zhongcheng Machine Tool Co., Ltd., Baoji Zhongcheng Precision CNC Equipment Co., Ltd., Baoji Zhongcheng Pharmaceutical Machinery Co., Ltd., and etc. This group has been certified by ISO9001 quality control system, CE safety norm, AA-class credit of CIQ and ISO14001 Environmental Management System.
- Products produced by PRECISION CNC MACHINE are various small sized horizontal CNC lathes of high speed, high efficiency and high precision, full function CNC lathes, Mill-turning CNC lathes and custom-made special purpose machines. They are widely used in industries of aerospace, automotive, instrument, electronic connector, medical appliance, automotive, motorcycle and machine building.
- PRECISION CNC MACHINE, relying on Baoji Machine Tool Group has complete production facilities, advanced testing instruments, powerful technical force. In this company technical developing is a premise; quality and testing is a base; reasonable price is an advantage; perfect after-sales service is an assurance. The company has a high makings, high skill technicians and staff. Based on the philosophy of “Responsibility, Undertake, Specialty and Quality” and perfect service system of “Before, During and After Sale” . It sells the products through its improvement of sales and widespread network of powerful marking all over the world. The products sold have won popularized praise from old and new clients and brought large economic benefit and social efficiency.



宝鸡忠诚精密数控设备有限责任公司(以下简称“精密数控”)是宝鸡机床集团有限公司下属的高新技术企业,总资产8000万元,年产值12000万元。

宝鸡机床集团是中国机床工具行业领先的金属切削设备供应商。总资产19亿元、员工3500多名,专业技术人员600余名,拥有300多名的高级工程师、高级技师,建成了“国家数控系统工程技术研究中心陕西分中心”,“省级技术中心”和国家级“技能大师工作室”,并与国内外知名院校开展技术合作,承担了国家“高档数控机床与基础制造装备”等20多项重大专项课题研制,企业年产机床20000台,收入30亿元,出口额2200万美元,主营业务收入稳居全国机床行业前三位。

宝鸡机床坚持秉承“干优等品零件、装精密级机床、做高素质员工、创世界级品牌”的品牌理念,成为拥有宝鸡忠诚机床股份有限公司、宝鸡忠诚精密数控设备有限责任公司、忠诚精密零件制造有限公司等十二个子公司的国家大型工业企业和高新技术企业。通过了ISO9001质量体系认证,欧盟CE安全认证,海关AA级信用,ISO14001环境体系认证。

精密数控专业生产高速、高效、高精密的各类小型卧式数控车床、全功能数控车床、车铣复合数控机床,可根据用户要求设计生产专用机床,广泛用于航空、航天、仪器仪表、电子接插件、医疗器械、汽车、摩托车和机械制造等领域。

精密数控依托宝鸡机床集团,加工设备齐全,检测仪器先进,技术力量雄厚;以技术开发为前提,以质量、检测为基础,以合理的价格为优势,以完善的售后服务为保障;有一支高素质、高技能的工程技术人员和职工队伍,本着“责任 担当 品质 专业”的理念,完善的“售前、售中、售后”服务体系,通过完善的销售和技术服务网络将产品销往世界各地,受到新老客户的普遍好评,产生了良好的经济效益和社会效益。

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责任担当 品质专业

CNC Lathe 数控车床

# CH6550DY/CH46DY

## 车铣复合数控车床

### CH6550DY/CH46DY Mill-turning Center CNC Lathe



#### 机床性能及结构特点 Features

- 30°整体斜床身底座结构,有利于铁屑和冷却液的排出。
  - 主轴轴承采用高精度进口轴承,保证高稳定性与高刚性。
  - 进给轴采用精密直线导轨及预拉伸结构滚珠丝杠,保证了机床的精度稳定性。
  - 机床配置Y轴12工位动力刀塔,搭配0°或90°动力头。
  - 高精度C轴,液压夹紧刹车,保证铣削与钻削的精度。
  - 可编程液压尾座,便于操作、省时省力(CH6550DY)。
  - 侧置或后置式冷却箱和出屑盒,排屑流畅,清屑方便。
  - 全封闭罩壳,转位式操作面板,操作安全方便。
- Integrated base and 30° slant bed are conducive to chip disposal and coolant removal.
  - High precision imported bearing ensures good stability and high rigidity.
  - Feed-axis adopts precision linear guideway and pretension structure ball screw bearing ensures stability of machine.
  - The lathe is equipped with Y-axis 12-station power turret and 0° and 90° power head.
  - High precision C-axis and hydraulic clamp brake ensures good precision of milling and drilling.
  - Programmable hydraulic tailstock could save time and effort, easy to operate(CH6550DY).
  - The rear or side mounted coolant tank ensures fluent chip disposal and easy chip removal.
  - Fully enclosed protect cover and inversion type panel ensures safe and convenient operation.

#### 标准配置 Standard equipment

- |                 |  |
|-----------------|--|
| 控制系统: 新代 22TB-E | Control system: SYNTEC 22TB-E                    |
| 主轴电机: 新代主轴伺服电机  | Spindle motor: SYNTEC spindle servo motor        |
| 主轴轴承: 进口高精度轴承   | Spindle bearing: Imported high precision bearing |
| 丝杠轴承: 丝杠专用轴承    | Screw bearing: Bearing especially for screw      |
| 导轨: 台湾精密直线导轨    | Guideway: Precision linear guideway from Taiwan  |
| 丝杠: 台湾精密滚珠丝杠    | Screw: Precision ball screw bearing from Taiwan  |

- 卡盘: 国产中空液压三爪卡盘  
油缸: 国产中空液压回转油缸  
刀塔: Y轴12工位伺服动力刀塔  
尾座: 可编程液压尾座(CH6550DY)

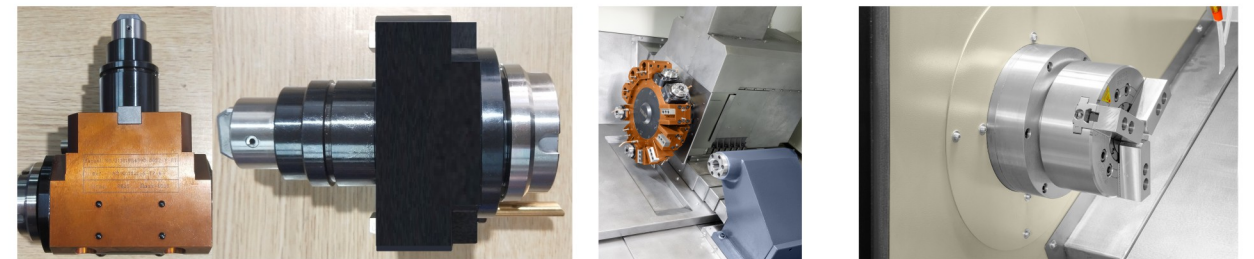
- Chuck: Domestic hollow hydraulic 3-jaw chuck  
Cylinder: Domestic hollow hydraulic rotating cylinder  
Turret: 12-station servo power turret with Y-axis  
Tailstock: Programmable hydraulic tailstock(CH6550DY)

#### 可选配置 Optional equipment

- FANUC/GSK/KND 系统
- 自动气动门装置
- 自动排屑器
- FANUC/GSK/KND system
- Automatic pneumatic door device
- Automatic chip conveyor

#### 主要技术参数 Technical data

项目Item		单位Unit	CH6550DY	CH46DY
加工范围 Capacity	床身上最大回转直径 Max. swing dia. over bed	mm	Φ500	Φ600
	滑板上最大回转直径 Max. swing dia. over slide	mm	Φ380	Φ240
	最大车削直径 Max. turning dia.	mm	Φ316	Φ360
	最大加工长度 Max. machining length	mm	500	350
	最大通过棒料直径 Max. bar dia. to be held	mm	Φ52	Φ45
主轴 Spindle	最大铣削直径(90°动力头) Max. milling dia. (90° power head)	mm	Φ426	Φ360
	主轴头型式 Type of spindle head		A2-6	A2-5
	主轴内孔锥度 Taper of spindle bore		公制(Metric) Φ68 1:20	MT No.6
	主轴通孔直径 Spindle thru-hole	mm	Φ62	Φ57
	主轴拉杆通孔直径 Thru-hole of spindle draw bar	mm	Φ52	Φ45
	主轴最高转速 Max. speed of spindle	rpm	3500	3500
	卡盘直径 Chuck dia.	inch	8"	6"
进给 Feed	X/Z/Y轴行程 Travel X/Z/Y	mm	250/530/90	240/420/60
	X/Z/Y轴快速速度 Rapid traverse X/Z	m/min	18/20/12	18/20/12
	X/Z/Y轴丝杠直径×螺距 Dia. x pitch of screw X/Z/Y	mm	Φ40×10/Φ40×10/Φ40×10	Φ40×10/Φ40×10/Φ25×5
刀架 Turret	刀架型式 Type of turret		Y轴12工位动力刀塔 12-station turret with Y-axis	
	刀具规格: 车削/镗孔 Tool section: turning/boring	mm	25×25/Φ40	20×20/Φ25
动力刀具 Power tool	动力刀具型式 Type of revolving tool		BMT55-ER32	BMT40-ER20
	装刀容量 Capacity of turret	pcs	12	
	最高转速 Max. rotating speed	rpm	3800	
	传动型式 Transmission type		齿轮 Gear	
	最大安装钻头直径 Max. dia. of drill bit to mount	mm	Φ20	Φ13
	最大钻孔直径 Max. drilling dia.	mm	Φ10/Φ12 (45钢/黄铜) steel/brass	Φ8/Φ10 (钢/铝) steel/aluminum
尾座 Tailstock	最大攻丝直径 Max. tapping dia.	mm	M10/M12 (45钢/黄铜) steel/brass	M10/M12 (钢/铝) steel/aluminum
	尾座行程 Travel of tailstock	mm	450	/
	顶尖套锥度 Taper of center sleeve		MT No.5	/
电机 Motor	尾座形式 Type of tailstock		液压程控 Hydraulic programmable tailstock	
	主电机功率 Power of spindle motor	kW	11/15	7.5/11
	主电机扭矩 Torque of spindle motor	Nm	53/78	35.8/53.7
	X/Z/Y轴电机额定功率 Rated power of motor X/Z	kW	3.1/3.1/3.1	2.4/2.4/2.4
	X/Z/Y轴电机额定扭矩 Rated torque of motor X/Z	Nm	15/15/15	11.5/11.5/11.5
	铣刀轴电机额定功率 Rated power of motor milling-axis	kW	3.1	3.1
	铣刀轴电机额定扭矩 Rated torque of motor milling-axis	Nm	15	15
冷却电机功率 Motor power of coolant	W	370		
其它 Others	床鞍布局型式 Type of saddle layout		30°	30°
	线轨型式 Type of guideway		滚柱 Ball roller	滚珠 Ball screw
	电源容量 Power capacity	KVA	28	22
	机床净重/毛重 Net/gross weight of machine	kg	4470/4870	3500/3900
	机床外形尺寸(长×宽×高) Dimension of machine (LxWxH)	mm	2716x2115x2070	2340x1927x2133
包装箱外形尺寸(长×宽×高) Dimension of packing box (LxWxH)	mm	3032x2436x2611	2792x2389x2700	



# CK36F/46F 车铣复合数控车床

## CK36F/46F Mill-turning Center CNC Lathe



### 主要性能及结构特点 Features

- 整体斜床身底座结构, 并经严格的时效处理, 排屑流畅, 切削空间合理。
  - 独立套筒式主轴单元, 进口角接触轴承, 并经精密动平衡, 主轴高速旋转平稳。
  - 加宽型精密直线导轨, 中置式精密滚珠丝杠, 增强了机床的整体刚性和精度保持性。
  - 加宽T型中滑板, 可方便安装排式刀座、卧式刀塔及动力刀具单元。
  - 伺服动力单元, 钻铣强劲有力, 可实现车铣复合加工。
- Integrated base and slant bed has undergone a strict aging treatment, so fluent chip disposal and friendly cutting space is ensured.
  - The single cartridge type spindle is supported by imported angular contact ball bearings. It has been balanced dynamically and rotates smoothly at high speed.
  - Precision linear guideway and precision ball screw bearings. So total rigidity of machine is enhanced and accuracy is lasting.
  - The widened T-shaped cross slide can easily hold comb tool block, horizontal turret or revolving tool holder.
  - The servo power unit operate drilling and milling easily; composite milling-turning can also be performed.

### 标准配置 Standard equipment

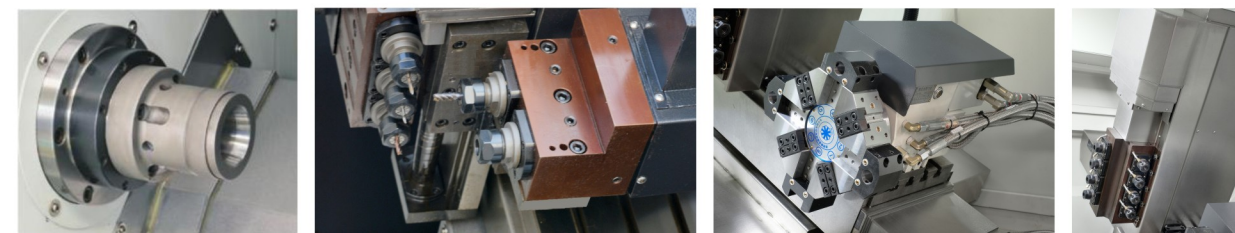
控制系统: GSK988TA	Control system: GSK988TA
主电机: GSK主轴伺服电机	Main motor: GSK spindle servo motor
进给电机: GSK伺服电机	Feed motor: GSK servo motor
动力刀具电机: GSK伺服电机	Motor of revolving tool: GSK servo motor
主轴轴承: 进口P4级角接触球轴承	Spindle bearing: Imported high precision P4-class angular contact ball bearing
丝杠轴承: 进口丝杠支撑轴承	Screw bearing: Imported special supporting bearing
导轨: 台湾精密直线导轨	Guideway: Precision linear guideway from Taiwan
丝杠: 台湾精密滚珠丝杠	Screw: Precision ball screw from Taiwan

卡盘: 后拉式液压筒夹	Chuck: Hydraulic draw down collet chuck
油缸: 国产6"中空液压回转油缸	Cylinder: Domestic 6" hollow hydraulic rotating cylinder
刀架: 8工位卧式液压刀塔	Turret: 8-station horizontal hydraulic turret
液压站: 高性能液压站, 台湾油泵电机组件	Hydraulic station: High performance hydraulic station, oil pump motor assembly from Taiwan
热交换器: 国内知名品牌	Heat exchanger: Domestic famous brand

### 主要技术参数 Technical data

项目Item		单位Unit	CK36F	CK46F
加工范围 Capacity	床身上最大回转直径	Max. swing dia. over bed	mm	Φ400
	滑板上最大回转直径	Max. swing dia. over slide	mm	Φ140
	最大车削直径	Max. turning dia.	mm	Φ140
	最大钻铣棒料直径	Max. drilling/milling bar dia.	mm	Φ50
	最大车削长度	Max. turning length	mm	100
主轴 Spindle	最大通过棒料直径	Max. bar dia. to be held	mm	Φ45
	主轴头型式	Type of spindle head		A2-5
	主轴鼻端尺寸	Size of spindle nose	mm	Φ82.563
	主轴内孔锥度	Taper of spindle bore		MT No.6
	主轴通孔直径	Spindle thru-hole	mm	Φ57
	主轴最高转速	Max. speed of spindle	rpm	4000
	筒夹型式	Type of collet chuck		45型 45 type
进给 Feed	筒夹型式	Type of collet chuck		52型*
	X/Z轴行程	Travel X/Z	mm	400/240
	Y轴行程	Travel Y	mm	150
	X/Z轴丝杠直径x螺距	Dia. × pitch of screw X/Z	mm	Φ32x8/Φ32x10
	Y轴丝杠直径x螺距	Dia. × pitch of screw Y	mm	Φ20x5
	X/Z轴快移速度	Rapid traverse X/Z	m/min	18/20
刀架 Turret	Y轴快移速度	Rapid traverse Y	m/min	12
	刀架型式	Type of turret		卧式液压刀塔 Horizontal hydraulic turret
	工位数	Number of station	pcs	8
	刀塔中心高	Center height of turret	mm	63
	刀方尺寸: 车削/镗孔	Tool section: turning/boring	mm	20x20/Φ25
动力刀具 Power tool	动力刀具型式	Type of revolving tool		ER20
	刀具容量	Capacity of tool		轴2径3 Axial: 2; radial: 3
	最高转速	Max. rotating speed	rpm	3000
	最大安装钻头直径	Max. dia. of drill bit to mount	mm	Φ13
	最大钻孔直径	Max. drilling dia.	mm	Φ10
	最大攻丝直径	Max. tapping dia.	mm	M8
	最大铣刀直径	Max. dia. of milling tool	mm	Φ10
电机 Motor	最大铣刀直径	Max. dia. of milling tool	mm	Φ10
	主电机功率	Power of spindle motor	kW	5.5/7.5 (伺服servo)
	主电机扭矩	Torque of spindle motor	Nm	35/48
	X/Z轴电机功率	Power of motor X/Z	kW	2.4/2.5
	X/Z轴电机扭矩	Torque of motor X/Z	Nm	7.5/10
	A/B轴电机扭矩	Torque of motor A/B	Nm	3.2/3.2
	Y轴电机扭矩	Torque of motor Y	Nm	3.2
其它 Others	冷却泵功率	Power of coolant pump motor	W	370
	CNC控制系统	CNC controller		GSK988TA (伺服servo)
	CNC控制轴数	Number of controllable axes		6
	主轴定位刹车装置	Spindle positioning and braking device		液压 Hydraulic
	电源容量	Power capacity	KVA	18
	床身布局型式	Type of bed		45°
	机床净重/毛重	Net/gross weight of machine	kg	2200/2500
机床外形尺寸	Dimension of machine(LxWxH)	mm	2150x1640x2025	
包装箱外形尺寸	Dimension of packing box(LxWxH)	mm	2640x2300x2390	
				2800x2400x2720

注: 带\*的参数为选配A2-6型主轴头时的参数 Note: data marked by asterisk\* are for optional equipment A2-6 type spindle head.



# CT-30H/40H/50H

## 系列自动化数控车床

### CT-30H/40H/50H Series Automatic CNC Lathe



#### 主要性能及结构特点 Features

- 高刚性整体底座，结构紧凑，占地面积小。
  - CT-40H采用高精度油冷式永磁同步电主轴，转速高、刚性强。
  - CT-40H/50H采用45°斜置式床鞍，大跨距直线导轨结构，满足高刚性车削。
  - CT-40H/50H标配高刚性的台湾液压刀塔可以就近换刀，节约加工时间。
  - CT-40H/50H标配高刚性液压尾座。
  - CT-40H/50H采用独特的油水分离结构，方便润滑油回收。
  - 机床既可搭载桁架机械手实现单机自动化，又可组线实现柔性加工单元。
- High rigidity integrated base and small footprint, ensures the compact structure of machine.
  - CT-40H CNC lathe adopts high precision oil-cooled permanent magnet synchronous motorized spindle with high speed and good rigidity.
  - CT-40H/50H CNC lathe adopts 45° inclined carriage bed with large span linear guide structure, ensures high rigidity of machine.
  - CT-40H/50H CNC lathe is equipped with high rigidity hydraulic turret could change the tool fast, processing time is saved.
  - CT-40H/50H CNC lathe is equipped with high rigidity hydraulic tailstock.
  - CT-40H/50H CNC lathe adopts unique oil-water separation structure, lubricating oil can be recovered.
  - The machine is not only could equipped with the truss manipulator to realize the single machine automation, but also could assembled to realize the flexible machining unit.

#### 标准配置 Standard equipment

控制系统: GSK主轴伺服系统  
 主轴电机: GSK主轴伺服电机  
 主轴轴承: 进口高精度轴承  
 丝杠轴承: 台湾丝杠专用轴承  
 导轨: 台湾精密直线导轨  
 丝杠: 台湾精密滚珠丝杠

Control system: GSK spindle servo system  
 Spindle motor: GSK spindle servo motor  
 Spindle bearing: Imported high precision bearing  
 Screw bearing: Bearing especially for screw form Taiwan  
 Guideway: Precision linear guideway from Taiwan  
 Screw: Precision ball screw bearing from Taiwan

卡盘: 国产中空液压三爪卡盘 (CT-40H/50H)  
 油缸: 国产中空液压回转油缸 (CT-40H/50H)  
 刀架: 台湾8工位卧式液压刀塔 (CT-40H/50H)  
 尾座: 液压尾座 (CT-40H/50H)

Chuck: Domestic hollow hydraulic 3-jaw chuck (CT-40H/50H)  
 Cylinder: Domestic hollow hydraulic rotating cylinder (CT-40H/50H)  
 Turret: 8-station hydraulic turret from Taiwan (CT-40H/50H)  
 Tailstock: Hydraulic tailstock (CT-40H/50H)

#### 可选配置 Optional equipment

- 新代/华中/KND/FANUC数控系统
- 桁架自动化机械手、矩阵料库、盘式料库
- 气动自动门装置
- 自动排屑器
- SYNTEC/HNC/KND/FANUC CNC system
- Truss automatic manipulator, matrix rack, disc rack
- Pneumatic automatic device
- Automatic chip conveyor

#### 主要技术参数 Technical data

项目Item		单位Unit	CT-30H	CT-40H	CT-50H
加工范围 Capacity	床身上最大回转直径 Max. swing dia. over bed	mm	Φ270	Φ450	Φ500
	最大车削直径 Max. turning dia.	mm	Φ110	Φ300	Φ360
	最大车削长度 Max. turning length	mm	200	300	330
	最大通过棒料直径 Max. bar dia. to be held	mm	Φ30	Φ45	Φ52
主轴 Spindle	主轴头型式 Type of spindle head		A2-4	A2-5	A2-6
	主轴通孔直径 Spindle thru-hole	mm	Φ36	Φ56	Φ62
	主轴最高转速 Max. speed of spindle	rpm	6000	6000	3500
	工件夹紧方式 Work chucking mode		气动夹头Pneumatic chuck	液压卡盘Hydraulic chuck	液压卡盘Hydraulic chuck
进给 Feed	X/Z轴行程 Travel X/Z	mm	300/300	160/300	215/335
	X/Z轴快移速度 Rapid traverse X/Z	m/min	20/20	20/20	20/20
刀架 Turret	刀架型式 Type of turret		排式刀架Comb type turret	液压刀塔Hydraulic turret	液压刀塔Hydraulic turret
	刀具规格:车削/镗孔 Tool section: turning/boring	mm	20×20/Φ25	25×25/Φ32	25×25/Φ32
尾座 Tailstock	套筒直径/行程 Dia./travel of quill	mm	/	Φ60/100	Φ75/140
	套筒内孔锥度 Taper of quill bore		/	MT No.4	MT No.5
	尾座形式 Type of tailstock		/	液压Hydraulic	液压Hydraulic
电机 Motor	主电机功率 Power of spindle motor	Kw	3.7/5.5	10/23(电主轴spindle)	7.5/11
	X/Z轴电机功率 Power of motor X/Z	Kw	1.0/1.2	2.5/2.5	2.5/2.5
	X/Z轴电机扭矩 Torque of motor X/Z	Nm	3.2/4.0	10/10	10/10
	冷却泵功率 Power of coolant pump motor	KW	0.15	0.37	0.37
其它 Others	CNC控制系统 CNC controller		GSK980TB3i	GSK988TA	GSK988TA
	电源容量 Power capacity	KVA	8	23	20
	机床布局形式 Type of bed		平床身Flat bed	30°	30°
	机床净重/毛重 Net/gross weight of machine	kg	1250/1550	2100/2400	2700/3000
	机床外形尺寸(LxWxH) Dimension of machine(LxWxH)	mm	2090x1430x2520	1630x1580x1750	1900x1900x1750
包装箱外形尺寸(长x宽x高) Dimension of packing box(LxWxH)	mm	2450x1710x2320	2210x1882x2320	2500x2230x2395	



## CK6560 系列数控车床 CK6560 Series CNC Lathe



### 主要性能及结构特点 Features

- 45°整体斜床身结构, 机床车削具有高刚性。
  - 高精度套筒式主轴单元, P4级进口主轴轴承。
  - 两轴进给采用大螺距滚珠丝杠, 轴承采用丝杠专用支撑轴承, 传动精准, 精度高。
  - 台湾卧式液压刀塔, 可就近快速换刀, 重复定位精度高, 节约加工时间。
  - 后置式/侧置式冷却箱和接屑箱, 排屑流畅, 清屑方便。
  - 全封闭防护, 转位式操作面板, 操作安全方便。
- 45°inclined carriage bed guideway ensures high rigidity during turning operation.
  - High precision cartridge type spindle is equipped with imported P4-class spindle bearing.
  - The two axis of feed used large pitch ball screw bearings, adopted with special support bearings, screw transmission at good accuracy and high precision.
  - Horizontal turret from Taiwan could change the tool fast in a shortest path with high repeatability; machining time is saved.
  - The rear or side mounted coolant tank ensures fluent chip disposal and easy chip removal.
  - Fully enclosed protection, transported type operation panel, safe and convenient to operate.

### 标准配置 Standard equipment

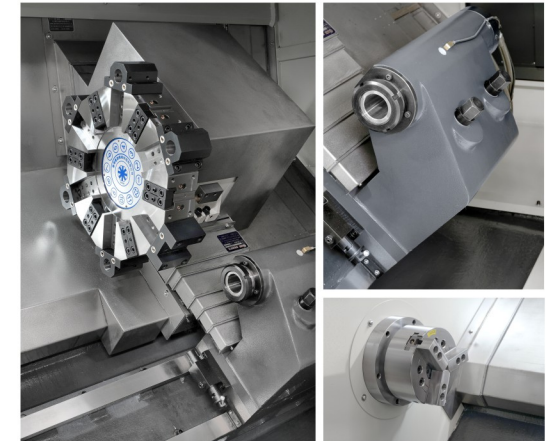
- |                |  |
|----------------|--|
| 控制系统: GSK988TA | Control system: GSK988TA                         |
| 主轴轴承: 进口高精度轴承  | Spindle bearing: Imported high precision bearing |
| 主轴电机: GSK伺服电机  | Main motor: GSK servo motor                      |
| 进给电机: GSK伺服电机  | Feed motor: GSK servo motor                      |
| 导轨: 台湾精密直线导轨   | Guideway: Precision linear guideway from Taiwan  |
| 丝杠: 台湾精密滚珠丝杠   | Screw: Precision ball screw from Taiwan          |

- 丝杠轴承: 丝杠专用轴承  
油缸: 国产中空液压回转油缸  
卡盘: 国产中空液压三爪卡盘  
刀塔: 台湾卧式液压刀塔  
尾座: 液压尾座  
排屑: 后置式排屑

- Screw bearing: Bearing especially for screw  
Cylinder: Domestic hollow hydraulic rotating cylinder  
Chuck: Domestic hollow hydraulic 3-jaw chuck  
Turret: Horizontal hydraulic turret from Taiwan  
Tailstock: Hydraulic tail stock  
Chip: Rear chip

### 可选配置 Optional equipment

- FANUC/KND/SYNETEC系统
  - 自动气动门装置
  - 台湾液压回转油缸
  - 台湾液压三爪卡盘
  - 自动排屑器
- FANUC/KND/SYNETEC system
  - Automatic pneumatic door device
  - Hydraulic rotating cylinder from Taiwan
  - Hydraulic 3-jaw chuck from Taiwan
  - Automatic chip conveyor



### 主要技术参数 Technical data

项目Item		单位Unit	CK6560	CK6560A	CK6560/750	CK6550	
加工范围 Capacity	床身上最大回转直径	Max. swing dia. over bed	mm	Φ600	Φ600	Φ600	Φ500
	滑板上最大回转直径	Max. swing dia. over slide	mm	Φ320	Φ320	Φ320	Φ360
	最大加工直径	Max. machining dia.	mm	Φ330	Φ330	Φ330	Φ316
	最大加工长度	Max. machining length	mm	550	550	750	550
	最大通过棒料直径	Max. bar dia.	mm	Φ50	Φ50	Φ50	Φ50
主轴 Spindle	主轴通孔直径	Thru-hole of spindle	mm	Φ62	Φ62	Φ62	Φ62
	主轴头型式	Type of spindle head		A2-6	A2-6	A2-6	A2-6
	主轴内孔锥度	Taper of spindle bore		公制MetricΦ68 1:20			
	主轴最高转速	Max. speed of spindle	rpm	3500	3500	3500	3500
	卡盘直径	Chuck dia.	inch	8"	8"	8"	8"
进给 Feed	X/Z轴行程	Travel X/Z	mm	230/605	230/605	230/670	210/590
	X/Z轴丝杠直径×螺距	Dia. × pitch of screw X/Z	mm	Φ32x10/Φ36x10	Φ40x10/Φ40x10		
	X/Z轴快移速度	Rapid traverse X/Z	m/min	18/16			
刀架 Turret	刀架型式	Type of turret	液压卧式 Hydraulic horizontal				
	工位数	Number of stations	12				
	刀塔中心高	Center height of turret	100				
	刀具规格: 车削/镗孔	Tool specification: turning/boring	25x25/Φ40				
尾座 Tailstock	套筒直径/行程	Dia./travel of quill	mm		Φ90/140	Φ70/450(尾座)	
	套筒内孔锥度	Taper of quill bore	MT No.5				
	套筒驱动型式	Type of sleeve drive	液压 Hydraulic				
电机 Motor	尾座体移动型式	Movement of tailstock	手动 Manual		液压 Hydraulic		
	主轴电机功率	Power of spindle motor	kW	11/15	15/18.5	15/18.5	11/15
	主轴电机扭矩	Torque of spindle motor	Nm	70/95	95/118	95/118	70/95
	X/Z轴电机功率	Power of motor X/Z	kW				3.9/3.9
	X/Z轴电机扭矩	Torque of motor X/Z	Nm				15/15
其它 Others	冷却泵功率	Power of coolant pump motor	W				370
	CNC控制系统	CNC controller	GSK988TA				
	电源容量	Power capacity	KVA	20	25	20	20
	床身布局形式	Type of bed	45°				
	导轨形式	Type of guideway	滚珠线轨				滚柱线轨 Roller guideway
机床净重/毛重(长x宽x高)	Net/gross weight of machine	Kg	3620/4060		4020/4460	3980/4420	
机床外形尺寸(长x宽x高)	Dimension of machine(LxWxH)	mm	2600x1770x1800		3215x1770x1800	2730x2115x1840	
包装箱外形尺寸(长x宽x高)	Dimension of packing box(LxWxH)	mm	3015x2200x2480		3515x2202x2480	3042x2516x2500	

# 05

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## CK6536/30/45 系列数控车床 CK6536/30/45 Series CNC Lathe

CNC Lathe 数控车床



### 主要性能及结构特点 Features

- 45°整体斜床身结构, 机床车削具有高刚性。
  - 高精度套筒式主轴单元, P4级进口主轴轴承。
  - 两轴进给采用大螺距滚珠丝杠, 轴承采用丝杠专用支撑轴承, 传动精准, 精度高。
  - 台湾卧式液压刀塔, 可就近快速换刀, 重复定位精度高, 节约加工时间。
  - 后置式/侧置式冷却箱和接屑箱, 排屑流畅, 清屑方便。
  - 全封闭防护, 转位式操作面板, 操作安全方便。
- 45°inclined carriage bed guideway ensures high rigidity during turning operation.
  - High precision cartridge type spindle is equipped with imported P4-class spindle bearing.
  - The two axis of feed used large pitch ball screw bearings, adopted with special support bearings, screw transmission at good accuracy and high precision.
  - Horizontal turret from Taiwan could change the tool fast in a shortest path with high repeatability; machining time is saved.
  - The rear or side mounted coolant tank ensures fluent chip disposal and easy chip removal.
  - Fully enclosed protection, transported type operation panel, safe and convenient to operate.

### 标准配置 Standard equipment

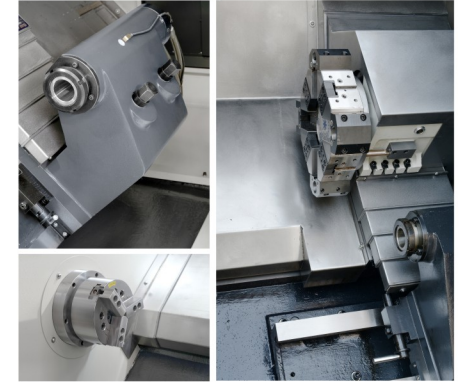
控制系统: GSK988TA	Control system: GSK988TA
主轴轴承: 进口高精度轴承	Spindle bearing: Imported high precision bearing
主轴电机: GSK伺服电机	Main motor: GSK servo motor
进给电机: GSK伺服电机	Feed motor: GSK servo motor
导轨: 台湾精密直线导轨	Guideway: Precision linear guideway from Taiwan
丝杠: 台湾精密滚珠丝杠	Screw: Precision ball screw from Taiwan

丝杠轴承: 丝杠专用轴承  
油缸: 国产中空液压回转油缸  
卡盘: 国产中空液压三爪卡盘  
刀塔: 台湾卧式液压刀塔  
尾座: 液压尾座  
排屑: 后置式排屑

Screw bearing: Bearing especially for screw  
Cylinder: Domestic hollow hydraulic rotating cylinder  
Chuck: Domestic hollow hydraulic 3-jaw chuck  
Turret: Horizontal hydraulic turret from Taiwan  
Tailstock: Hydraulic tail stock  
Chip: Rear chip

### 可选配置 Optional equipment

- FANUC/KND/SYNETEC系统
- 自动气动门装置
- 台湾液压回转油缸
- 台湾液压三爪卡盘
- 自动排屑器
- FANUC/KND/SYNETEC system
- Automatic pneumatic door device
- Hydraulic rotating cylinder from Taiwan
- Hydraulic 3-jaw chuck from Taiwan
- Automatic chip conveyor



### 主要技术参数 Technical data

项目Item		单位Unit	CK6536	CK6536A	CK6536B	CK6545	CK6530	
加工范围 Capacity	床身上最大回转直径 Max. swing dia. over bed	mm	Φ400	Φ400	Φ400	Φ400	Φ380	
	滑板上最大回转直径 Max. swing dia. over slide	mm	Φ200	Φ200	Φ200	Φ200	Φ140	
	最大加工直径 Max. machining dia.	mm	Φ360	Φ360	Φ360	Φ360	Φ280	
	最大加工长度 Max. machining length	mm	330	310	330	500	300	
主轴 Spindle	最大通过棒料直径 Max. bar dia.	mm	Φ45	Φ50	Φ45	Φ45	Φ30	
	主轴通孔直径 Thru-hole of spindle	mm	Φ57	Φ62	Φ57	Φ57	Φ43	
	主轴头型式 Type of spindle head		A2-5	A2-6	A2-5	A2-5	A2-4	
	主轴内孔锥度 Taper of spindle bore		MT No.6	公制Φ68 1:20	MT No.6	MT No.6	MT No.5	
	主轴最高转速 Max. speed of spindle	rpm	4500	3500	4500	4000	4500	
	卡盘直径 Chuck dia.	inch	6"	8"	6"	6"	5"	
进给 Feed	X/Z轴行程 Travel X/Z	mm	190/350	190/350	190/350	190/500	160/300	
	X/Z轴丝杠直径×螺距 Dia. × pitch of screw X/Z	mm	Φ32x8/Φ36x10			Φ36x10/Φ40x10	Φ25x8/Φ32x8	
	X/Z轴快移速度 Rapid traverse X/Z	m/min	20/20			18/16	18/18	
刀架 Turret	刀架型式 Type of turret		液压卧式 Hydraulic horizontal					
	工位数 Number of stations	pcs	8	8	8	8	8	
	刀塔中心高 Center height of tool	mm	80	80	80	80	50	
	刀具规格: 车削/镗孔 Tool specification: turning/boring	mm	25x25/Φ32	25x25/Φ32	25x25/Φ32	25x25/Φ32	20x20/Φ25	
尾座 Tailstock	套筒直径/行程 Dia./travel of quill	mm	Φ75/140	Φ75/140	Φ75/140	Φ90/140	Φ60/100	
	套筒内孔锥度 Taper of quill bore		MT No.5	MT No.5	MT No.5	MT No.5	MT No.4	
	套筒驱动型式 Type of sleeve drive		液压 Hydraulic					
电机 Motor	尾座体移动型式 Movement of tail stock		手动 manual operation					
	主轴电机功率 Power of spindle motor	kW	7.5/11	11/15	7.5/11	11/15	5.5/7.5	
	主轴电机扭矩 Torque of spindle motor	Nm	48/70	70/95	48/70	70/95	35/48	
	X/Z轴电机功率 Power of motor X/Z	kW	2.5/2.5	2.5/2.5	2.5/2.5	2.5/2.5	1.88/1.88	
	X/Z轴电机扭矩 Torque of motor X/Z	Nm	10/10	10/10	10/10	10/10	6/6	
	冷却泵功率 Power of coolant pump motor	W	370	370	370	370	370	
其它 Others	CNC控制系统 CNC controller		GSK988TA	GSK988TA	GSK988TA	GSK988TA	GSK988TA	
	电源容量 Power capacity	KVA	20	20	20	20	15	
	床身布局形式 Type of bed		45°	45°	45°	45°	45°	
	导轨形式 Type of guideway		滚珠线轨			滚柱线轨		滚珠线轨
	机床净重/毛重(长x宽x高) Net/gross weight of machine	Kg	2500/3050	2500/3050	2500/3050	3400/4040	2180/2480	
机床外形尺寸(长x宽x高) Dimension of machine (LxWxH)	mm	2370x1662x2055			2600x1770x1770	2004x1552x1716		
包装箱外形尺寸(长x宽x高) Dimension of packing box (LxWxH)	mm	2880x2015x2380			2970x2110x2360		2340x1990x2240	

# 06

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## CK50D 数控车床 CK50D CNC Lathe

CNC Lathe 数控车床



### 主要性能及结构特点 Features

- 45°斜置式床鞍导轨结构，机床车削具有高刚性。
  - 高精度套筒式主轴单元，P4级进口圆柱滚子主轴轴承，主轴最高转速3000转/分。
  - 两轴进给采用大螺距滚珠丝杠，轴承采用丝杠专用支撑轴承，传动准确，精度高。
  - 新颖独特的油水分离结构，无需单独油水分离器，润滑油可独立回收。
  - 尾座导轨采用镶钢滑动导轨，尾座体采用液压自动锁紧，导向及稳定性好。
  - 全封闭防护，侧置/后置式独立冷却箱和接屑盒，排屑流畅，清屑方便，转位式操作面板，操作安全方便。
- 45° inclined carriage bed guideway structure, so the rigidity of machine is ensured.
  - High precision cartridge type spindle is equipped with P4-class cylindrical roller spindle bearing, spindle rotates max. 3000 rev/min.
  - The two axis of feed use large pitch ball screw bearings with special support bearings, screw transmission at good accuracy and high precision.
  - The Unique oil and water separate structure, no need oil and water separator, lubricating oil can be recovered independently.
  - The tailstock guideways with a steel sliding guideways, hydraulic automatic locking of tail stock body ensures a good guide and stability.
  - Fully enclosed protection, side or rear-mounted cooling and chip box, chip removal fluid and convenient; indexable operation panel, safe and convenient to operate.

### 标准配置 Standard equipment

- |                   |   |
|-------------------|---|
| 控制系统: GSK988TA    | Control system: GSK988TA                          |
| 主 轴: 套筒式主轴单元      | Spindle: Cartridge type spindle                   |
| 主轴轴承: 进口P4级圆柱滚子轴承 | Spindle bearing: Imported P4-class roller bearing |
| 主轴电机: GSK主轴伺服电机   | Main motor: GSK spindle servo motor               |
| 进给电机: GSK伺服电机     | Feed motor: GSK servo motor                       |
| 导 轨: 台湾直线导轨       | Guideway: Linear guideway from Taiwan             |

- 丝 杠: 台湾精密滚珠丝杠
- 丝杠轴承: 进口丝杠专用轴承
- 油 缸: 国产8"中空液压回转油缸
- 卡 盘: 国产8"中空液压三爪卡盘
- 刀 塔: 台湾八工位卧式液压刀塔
- 尾 座: 液压尾座

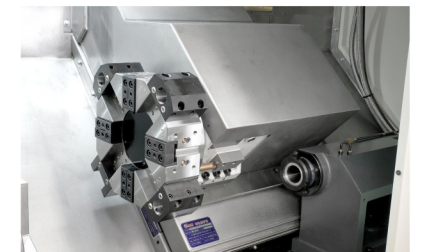
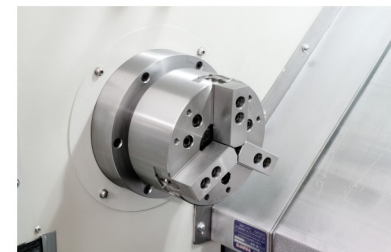
- Screw: Precision ball screw bearing from Taiwan
- Screw bearing: Imported bearing especially for screw
- Cylinder: Domestic 8" hollow hydraulic rotating cylinder
- Chuck: Domestic 8" hollow hydraulic 3-jaw chuck
- Turret: 8-station horizontal hydraulic turret from Taiwan
- Tailstock: Hydraulic tailstock

### 可选配置 Optional equipment

- FANUC/ KND /SYNTEC系统
- 10/12工位卧式刀塔
- 自动气动门装置
- 10"中空液压回转油缸
- 10"中实液压三爪卡盘
- 自动排屑器
- FANUC/ KND/SYNTEC system
- 10-station/12-station horizontal turret
- Automatic pneumatic door device
- 10-station hollow hydraulic rotating cylinder
- 10-station solid hydraulic 3-jaw chuck
- Auto-chip conveyor

### 主要技术参数 Technical data

项目 Item		单位 Unit	CK50D
加工范围 Capacity	床身上最大回转直径	Max. swing dia. over bed	Φ500
	滑板上最大回转直径	Max. swing dia. over slide	Φ260
	最大加工直径	Max. machining dia.	Φ360
	最大加工长度	Max. machining length	500(D>Φ50)
	最大加工通过棒料直径	Max. dia. of bar to be held	Φ50
主轴 Spindle	主轴通孔直径	Spindle thru-hole	Φ62
	主轴头型式	Spindle head	A2-6 (GB5900.1)
	主轴内孔锥度	Taper of spindle bore	公制 (Metric) Φ68 1:20
	主轴最高转速	Max. rotating speed of spindle	3000
	卡盘直径	Chuck dia.	8"
	卡盘行程	Travel X/Z	190/520
进给 Feed	X/Z轴丝杠直径x螺距	Dia x pitch of screw X/Z	Φ32x8/Φ32x10
	X/Z轴快移速度	Rapid traverse X/Z	15/15
	刀架型式	Type of turret	卧式液压 Horizontal hydraulic
刀架 Turret	工位数	Number of station	8
	刀塔中心高	Center height of turret	80
	刀具规格: 车削/镗孔	Tool section: turning/boring	25x25/Φ32
	套筒直径/行程	Dia./travel of quill	Φ90/140
尾座 Tailstock	套筒内孔锥度	Taper of quill bore	MT No.5
	尾座套筒驱动型式	Type of socket tailstock	液压 Hydraulic
	尾座体移动形式	Tape of moving tailstock	手动移动/液压锁紧 Manual movement/hydraulic lock
电机 Motor	主轴电机功率	Power of main motor	11/15
	主轴电机扭矩	Torque of main motor	72/100
	X/Z轴电机功率	Power of motor X/Z	2.5/2.5
	X/Z轴电机扭矩	Torque of motor X/Z	10/10
	冷却泵功率	Power of coolant pump motor	370
其它 Others	CNC控制系统	CNC controller	GSK988TA
	电源容量	Power capacity	20
	床身布局形式	Type of bed	45°(斜床鞍 Slant carriage)
	导轨型式	Type of guideway	精密直线导轨 Precision linear guideway
	机床净重/毛重	Net/gross weight of machine	3300/3800
	机床外形尺寸(长×宽×高)	Dimension of machine(LxWxH)	2650x1710x1947
	包装箱尺寸(长×宽×高)	Dimension of package box(LxWxH)	3100x2172x2445



**BOSHI**  
宝鸡数控



# 07

责任担当 品质专业

## CK42P/D/FY/FD 精密数控车床 CK42P/D/FY/FD Precision CNC Lathe

CNC Lathe 数控车床



### 主要性能及结构特点 Features

- 树脂砂铸造的整体床身底座结构, 并经严格的时效处理, 确保机床的高精度、高刚性。
  - 30°斜置式床鞍导轨结构, 确保机床车削高刚性。
  - 高精度通孔式套筒主轴结构, 高速液压回转油缸及精密套筒筒夹。
  - 加宽型精密直线导轨, 增强了机床的整体刚性, 车削粗糙度可达Ra0.8~0.4。
  - 中置式滚珠丝杠, 消除了侧扭力, 丝杠轴承采用专用丝杠支撑轴承, 传动平稳。
  - 加宽T型刀架板扩大了刀具安装范围, 刀座调整方便, 换刀高速准确, 重复换刀误差小。
  - 外置式独立强电柜, 维护方便; 侧置式独立冷却箱和接屑盒, 排屑流畅, 清屑方便。
  - 机、电、液一体化, 高性能液压站, 全封闭罩壳, 不锈钢防护, 操作安全舒适。
- The integrated base and bed is casted through resin mold, which has undergone a strict aging treatment, so high accuracy and rigidity are ensured.
  - 30°slant carriage guideways ensure high rigidity during turning operation.
  - The precision cartridge type spindle is equipped with a high speed hydraulic rotating cylinder and a precision collet chuck.
  - The widened precision linear guideways improves the total rigidity of machine. Turning roughness is up to Ra0.8~0.4.
  - Precision ball screw is located between guideways; side torque is eliminated. Bearings especially for screws are used and smooth transmission is ensured.
  - The tool block has a widened T-shaped bottom plate so it can hold more tools. It ensures easy setting, quick and precision tool change and less repeatability.
  - The external electric cabinet is easy to service. The separate rear mounted coolant tank and chip box ensures fluent chip disposal and easy chip removal.
  - The machine is jointly driven mechanically, electrically and pneumatically, high performance hydraulic station. Full enclosed stainless steel guard ensures safe and friendly operation.

### 标准配置 Standard equipment

控制系统: GSK988TA	Control system: GSK988TA
主电机: GSK伺服主电机	Main motor: GSK servo main motor
进给电机: GSK伺服电机	Feed motor: GSK servo motor
主轴轴承: 进口高精度P4级角接触球轴承	Spindle bearing: Imported high precision P4-class angular contact ball bearing
丝杠轴承: 进口丝杠专用轴承	Screw bearing: Imported bearing especially for screw
导轨: 台湾精密直线导轨	Guideway: Precision linear way from Taiwan
丝杠: 台湾精密滚珠丝杠	Screw: Precision ball screw from Taiwan
筒夹: 后拉式精密液压筒夹	Collet chuck: Precision draw down collet chuck
油缸: 国产6"中空液压回转油缸	Oil cylinder: Domestic 6" hollow hydraulic rotating cylinder
刀架: 精密排刀	Turret: Precision comb type turret
液压站: 高性能液压站, 台湾油泵电机组件	Hydraulic station: High performance hydraulic station, pump motor assembly from Taiwan

### 可选配置 Optionalequipment

- FANUC/KND/SYNTEC系统
  - 台湾6"中空液压三爪卡盘
  - 台湾6"中空液压回转油缸
  - 气动自动门装置
  - 自动排屑器
- FANUC/KND/SYNTEC system
  - 6" hollow hydraulic 3-jaw chuck from Taiwan
  - 6" hollow hydraulic rotating cylinder from Taiwan
  - Pneumatic automatic door device
  - Auto chip conveyor



### 主要技术参数 Technical data

项目Item		单位Unit	CK42P	CK42D	CK42FY	CK42FD
加工范围 Capacity	床身上最大回转直径	Max. swing dia. over bed	Φ420			
	滑板上最大回转直径	Max. swing dia. over slide	Φ140			
	床身上最大车削直径	Max. turning dia. over bed	Φ280			
	最大车削长度	Max. turning length	200	120		
	最大通过棒料直径	Max. dia. of bar to be held	Φ42/Φ45*	Φ45	Φ42/Φ45*	Φ45
主轴 Spindle	主轴头型式	Type of spindle head	A2-5			
	主轴内孔锥度	Taper of spindle bore	MT No.6			
	主轴通孔直径	Spindle thru-hole	Φ57			
	主轴拉杆通孔直径	Thru-hole of spindle draw bar	Φ43/Φ45*	Φ45	Φ43/Φ45*	Φ45
	主轴最高转速	Max. speed of spindle	4000			
	工件夹紧方式	Work chucking mode	后拉式液压筒夹	中空液压三爪卡盘	后拉式液压筒夹	中空液压三爪卡盘
进给 Feed	X/Z轴行程	Travel X/Z	300/300	140/200	300/300	300/260
	X/Z轴丝杠直径x螺距	Dia.x pitch of screw X/Z	Φ32x8/Φ32x10			
	X/Z轴快移速度	Rapid traverse X/Z	16/18			
刀架 Turret	刀架型式	Type of turret	精密排刀	卧式液压刀塔	精密排刀	
	刀架装刀容量	Capacity of turret	5	8	5	
	刀方尺寸: 车削/镗孔	Tool section: turning/boring	20x20/Φ25			
电机 Motor	主电机功率	Power of spindle motor	5.5/7.5 (伺服Servo)		5.5/7.5 (主轴伺服Spindle servo)	
	主电机扭矩	Torque of spindle motor	35/48		35/48	
	X/Z轴电机功率	Power of motor X/Z	1.88/1.88			
	X/Z轴电机扭矩	Torque of motor X/Z	6/6			
	冷却泵功率	Power of coolant pump	150	370	150	
其它 Others	电源容量	Power capacity	12	15	15	
	床身布局型式	Type of bed	30° (斜床鞍 Slant carriage)			
	导轨型式	Type of guideway	精密直线导轨 Precision linear way			
	机床净重/毛重	Net/gross weight of machine	2250/2800	2290/2840	2280/2830	
	机床尺寸(长×宽×高)	Dimension of machine (LxWxH)	2242x1485x1915			
包装箱尺寸(长×宽×高)	Dimension of packing box (LxWxH)	2540x1890x2290				

注: 带\*的参数为选配45型主筒夹的参数 Note: data marked by asterisk\* are for optional equipment 45-type collet chuck.

## CKX20/25/30

系列精密斜床身数控车床

CKX20/25/30 Series Slant-bed Precision CNC Lathe



## 主要性能及结构特点 Features

- 45°整体斜床身结构, 并经严格的时效处理, 确保机床的高精度、高刚性。
  - 高精度套筒式主轴结构, 配以直线气缸及弹簧夹头, 确保主轴高速平稳旋转。
  - 台湾PMI精密直线导轨, 增强了机床的整体刚性, 精度高、运动平稳。
  - 台湾PMI精密预拉伸滚珠丝杠, 丝杠轴承采用进口专用丝杠支撑轴承, 传动平稳。
  - 纵向和横向丝杠均采用无齿隙联轴器和交流伺服电机直联, 保证了传动的高精度。
  - 燕尾型排式刀架, 刀座调整方便, 换刀高速准确, 重复换刀误差小。
  - 刀架板上装有自动拉料装置, 通过数控系统控制, 可方便的实现联机协作自动化。
  - 高性能自动间歇润滑系统, 能及时地对导轨、丝杠集中润滑。
  - 彩色显示屏的控制系统, 具有USB接口, 传输极为方便。
  - 外置式独立强电柜, 维护方便; 后置式独立冷却箱和接屑盒, 排屑流畅, 清屑方便。
- Integrated base and 45°slant bed has undergone a strict aging treatment, so fluent chip disposal and friendly cutting space are ensured.
  - High precision cartridge type spindle is equipped with a linear cylinder and collet chuck; the spindle rotates smoothly at high speed.
  - Taiwan PMI precision linear guideway improve the total rigidity of machine, It has been balanced dynamically and rotates smoothly at high speed.
  - Taiwan PMI precision pretension ball screw imported bearings especially for screws are used and smooth transmission is ensured.
  - Feed screws in longitudinal and cross direction are directly connected with AC servo motors through zero clearance shaft couplings. High accuracy is ensured in transmission.
  - The dovetail comb type tool block ensures easy setting, quick and precise tool change and less repeatability.
  - Turret board equipped with automatic feeding machine. It's convenient achieve the corporation automatic through CNC control system.
  - The high performance intermittent centralized lubrication system lubricates the machine bed guideways and X/Z-axis screws in time.
  - The NC controller has color display and USB port, so data transfer is simple.
  - The external electric cabinet is easy to service. The separate rear mounted coolant tank and chip box ensure fluent chip disposal and easy chip removal.

## 标准配置 Standard equipment

控制系统: SYNTEC 21TA

主电机: 伺服电机

进给电机: 新一代伺服电机

主轴轴承: 日本进口P4级角接触球轴承

丝杠轴承: 日本进口丝杠支撑轴承

导轨: 台湾PMI精密直线导轨

丝杠: 台湾PMI精密预拉伸滚珠丝杠

筒夹: 后拉式气动筒夹

刀架: 精密燕尾型排式刀架

防护: 全封闭防护

Control system: SYNTEC 21TA

Main motor: Servo motor

Feed motor: SYNTEC servo motor

Spindle bearing: P4-class angular contact ball bearing imported from Japan

Screw bearing: Supporting bearings especially for screw imported from Japan

Guideway: PMI precision linear guideway from Taiwan

Screw: PMI precision pretensioned ball screw from Taiwan

Collet chuck: Pneumatic draw down collet chuck

Turret: Precision dovetail comb type turret

Guard: Full enclosed guard



## 可选配置 Optional equipment

• FANUC/GSK/KND系统

• 主轴碟刹装置

• 钻铣动力单元

• 前端/后端吹气装置

• 台湾4"中空/中实液压回转油缸、卡盘 (CKX20/25)

• 台湾5"中空/中实液压回转油缸、卡盘 (CKX30)

• FANUC/GSK/KND system

• Spindle dish type brake

• Milling power unit

• Front/rear air blowing device

• 4" hollow/solid hydraulic rotating cylinder, chuck from Taiwan (CKX20/25)

• 5" hollow/solid hydraulic rotating cylinder, chuck from Taiwan (CKX30)

## 主要技术参数 Technical data

项目Item		单位Unit	CKX20	CKX25	CKX30
加工范围 Capacity	床身上最大回转直径 Max. swing dia. over bed	mm	Φ340		
	刀架上最大车削直径 Max. turning dia. over tool block	mm	Φ90		
	最大通过棒料直径 Max. bar dia.	mm	Φ20	Φ25	Φ30
	最大加工长度 Max. machining length	mm	200		
主轴 Spindle	主轴头型式 Type of spindle head		/		
	主轴鼻端尺寸 Size of spindle nose	mm	Φ45	Φ53.975	Φ63.513
	主轴通孔直径 Spindle thru-hole	mm	Φ26	Φ32	Φ36
	主轴拉杆通孔直径 Thru-hole of spindle draw bar	mm	Φ21	Φ26	Φ31
	主轴最高转速 Max. speed of spindle	rpm	6000		
	工件夹紧方式 Work chucking mode		气动弹簧夹头 Pneum. Collet chuck		
	进给 Feed	X/Z轴行程 Travel X/Z	mm	280/240	
	X/Z轴快移速度 Rapid traverse X/Z	m/min	20/20		
刀架 Turret	刀架型式 Type of turret		燕尾型精密排刀 Precision dovetail comb block		
	刀方尺寸: 车削/镗孔 Tool section: turning/boring	mm	12x12/Φ25		
	刀具中心高 Center height of tool	mm	45		
电机 Motor	主电机功率 Power of spindle motor	kW	2.2/3.7	3.7/5.5	
	主轴电机扭矩 Torque of spindle motor	Nm	14/24	24/35	
	X/Z轴电机功率 Power of motor X/Z	kW	1.2/1.2		
	X/Z轴电机扭矩 Torque of motor X/Z	Nm	4/4		
	冷却电机功率 Power of coolant motor	W	150		
其它 Others	CNC控制系统 CNC controller		SYNTEC 21TA		
	电源容量 Power capacity	KVA	6	8	
	导轨型式 Type of guideway		精密直线导轨 Precision linear guideway		
	机床净重/毛重 Net/gross weight of machine	Kg	1160/1410		1180/1430
	机床外形(长×宽×高) Dimension of machine(LxWxH)	mm	1678x1204x1675		
包装箱尺寸(长×宽×高) Dimension of packing box(LxWxH)	mm	1993x1505x2130			

# CK20/30/20E/30E/30L

## 系列小型精密数控车床

### CK20/30/20E/30E/30L Series Small Size Precision CNC lathe



#### 主要性能及结构特点 Features

- 整体铸造底座、床身结构，并经严格的时效处理，确保机床的高精度、高刚性。
  - 高精度套筒式主轴结构，配以直线气缸及弹簧夹头，确保主轴高速平稳旋转，车削粗糙度可达Ra0.8~0.4。
  - 精密淬硬燕尾或进口直线导轨，增强机床的整体刚性，具有精度高、运动平稳。
  - 中置式精密预拉伸滚珠丝杠，消除了侧扭力，丝杠轴承采用进口专用丝杠支撑轴承，传动平稳。
  - 纵向和横向丝杠均采用无齿隙联轴器和交流伺服电机直联，保证了传动的高精度。
  - 燕尾型排式刀架，刀座调整方便，换刀高速准确，重复换刀误差小。
  - 高性能自动间歇集中润滑系统，能及时地对床身导轨、X/Z向丝杠自动润滑。
  - 彩色显示屏的控制系统，具有USB接口，传输极为方便。
  - 外置式独立强电柜，维护方便；后置式独立冷却箱和接屑盒，排屑流畅，清屑方便。
  - 机、电、液一体化，知名品牌气动、电器元件，性能可靠。
  - 全封闭罩壳，不锈钢防护，操作安全舒适。
  - 机床适用于仪器、仪表，电子接插件及航天航空等小型零件的大批量高效率的精密加工。
- The integrated base and bed casting has undergone a strict aging treatment, so high accuracy and rigidity is ensured.
  - High precision cartridge type spindle is equipped with a linear cylinder and collet chuck; the spindle rotates smoothly at high speed; turning roughness is up to Ra0.8~0.4.
  - Precision hardened dovetail guideways or imported linear guideways improve the total rigidity of lathe so that the lathe has high precision and runs smoothly.
  - Precision ball screw is located between guideways; side torque is eliminated, imported bearings especially for screw are used and smooth transmission is ensured.
  - Feed screws in longitudinal and cross direction are directly connected with AC servo motors through zero clearance shaft couplings. High accuracy is ensured in transmission.
  - The dovetail comb type tool block ensures easy setting, quick and precise tool change and less repeatability.
  - The high performance intermittent centralized lubrication system lubricates the machine bed guideways and X/Z-axis screws in time.
  - The NC controller has color display and USB port, so data transfer is simple.
  - The external electric cabinet is easy to service. The separate rear mounted coolant tank and chip box ensure fluent chip disposal and easy chip removal.

- The machine is jointly driven mechanically, electrically and pneumatically. Famous brand pneumatic and electric elements used on the lathe operate reliably.
- Full enclosed stainless steel guard ensures safe and friendly operation.
- The machine is suitable for efficient turning of large batch of small type work pieces in instrument, electronic connector and aerospace industries.

#### 标准配置 Standard equipment

控制系统: FANUC Oi-TF  
 主轴轴承: 进口高精度角接触轴承  
 丝杠轴承: 进口丝杠专用轴承  
 导轨: 淬硬燕尾导轨/直线导轨  
 丝杠: 精密预拉伸滚珠丝杠  
 筒夹: 后拉式气动筒夹  
 刀架: 精密排式刀架  
 主轴电机: 伺服主电机  
 进给电机: FANUC伺服电机

Control system: FANUC Oi-TF  
 Spindle bearing: Imported high precision angular contact ball bearing  
 Screw bearing: Imported bearings especially for screw  
 Guideway: Hardened dovetail guideways or linear guideways  
 Screw: Precision pretensioned ball screw  
 Collet chuck: Pneumatic draw down collet chuck  
 Turret: Precision dovetail comb type  
 Spindle motor: Servo main motor  
 Feed motor: FANUC servo motor

#### 可选配置 Optional equipment

- GSK/SYNTEC系统
- 主轴碟刹装置
- 前端/后端吹气装置
- 钻铣装置
- 4"中实液压三爪卡盘 (CK20)
- 5"中空/中实液压卡盘 (CK30/30L)
- GSK/SYNTEC controller
- Spindle dish type brake
- Front/rear air blowing
- Drilling/milling unit
- 4" solid hydraulic 3-jaw chuck (CK20)
- 5" solid/hollow hydraulic chuck (CK30/30L)



#### 主要技术参数 Technical data

项目Item		单位Unit	CK20	CK30	CK20E	CK30E	CK30L
加工范围 Capacity	床身上最大回转直径 Max. swing dia. over bed	mm	Φ240				Φ270
	滑板上最大回转直径 Max. swing dia. over slide	mm	Φ120				Φ110
	刀架上最大车削直径 Max. turning dia. over tool block	mm	Φ70				Φ110
	最大通过棒料直径 Max. bar dia.	mm	Φ20	Φ30	Φ20	Φ30	
	最大加工长度 Max. machining length	mm	150				200
主轴 Spindle	主轴头型式 Type of spindle head		/	A2-4	/	A2-4	
	主轴鼻端尺寸 Size of spindle nose	mm	Φ45	Φ63.513	Φ45	Φ63.513	
	主轴通孔直径 Spindle thru-hole	mm	Φ26	Φ36	Φ26	Φ36	
	主轴拉杆通孔直径 Thru-hole of spindle draw bar	mm	Φ21	Φ31	Φ21	Φ31	
	主轴最高转速 Max. speed of spindle	rpm	6000				
	工件夹紧方式 Work chucking mode		气动弹簧夹头 Pneum. Collet chuck				
进给 Feed	X/Z轴行程 Travel X/Z	mm	200/180	250/180	200/180	250/180	300/300
	X/Z轴快速速度 Rapid traverse X/Z	m/min	15/15		20/20		
刀架 Turret	刀架型式 Type of turret		排式刀架 Comb type turret				
	刀方尺寸:车削/镗孔 Tool section: turning/boring	mm	12×12/Φ25				
	刀具中心高 Center height of tool	mm	35				55
电机 Motor	主电机功率 Power of spindle motor	kW	2.2/3.7	3.7/5.5	2.2/3.7	3.7/5.5	
	主电机扭矩 Torque of spindle motor	Nm	14/24	23.6/35	14/24	23.6/35	
	X/Z轴电机功率 Power of motor X/Z	kW	0.75/0.75				
	X/Z轴电机扭矩 Torque of motor X/Z	Nm	3.5/3.5				
	冷却泵功率 Power of coolant pump motor	W	150				
其它 Others	CNC控制系统 CNC controller		FANUC Oi-TF				
	电源容量 Power capacity	KVA	6	8	6	8	
	导轨型式 Type of guideway		燕尾导轨	直线导轨	燕尾导轨	直线导轨	
	机床净重/毛重 Net/gross weight of machine	Kg	1000/1200	1020/1220	1000/1200	1020/1220	1175/1450
	机床外形(长×宽×高) Dimension of machine(LxWxH)	mm	1319x1495x1805				1510x1410x1760
	包装箱尺寸(长×宽×高) Dimension of packing box(LxWxH)	mm	1850x1530x1930				2010x1710x2250

# 10

责任担当 品质专业

## CK6730 系列精密数控车床 CK6730 Series Precision CNC Lathe

CNC Lathe 数控车床



### 主要性能及结构特点 Features

- 树脂砂铸造的整体底座、床身结构，并经严格的时效处理，确保机床的高精度、高刚性。
  - 高速液压回转油缸及后拉式精密弹簧夹头，主轴最高转速5000转/分，车削粗糙度可达Ra0.8~0.4。
  - 中置式精密滚珠丝杠，消除了侧扭力，丝杠轴承采用进口专用丝杠支撑轴承，传动平稳。
  - 纵向和横向丝杠均采用无齿隙联轴器和交流伺服电机直联，保证了传动的高精度。
  - 燕尾型排式刀架，刀座调整方便，换刀高速准确，重复换刀误差小。
  - 高性能自动间歇集中润滑系统，能及时地对床身导轨、X/Z向丝杠自动润滑。
  - 彩色显示屏的控制系统，具有USB接口，传输极为方便。
  - 外置式独立强电柜，维护方便；侧置式独立冷却箱和接屑盒，排屑流畅，清屑方便。
  - 机、电、液一体化，知名品牌电器元件，性能可靠。
  - 全封闭式罩壳，不锈钢防护，操作安全舒适。
- The integrated base and bed is casted through resin mold, which has undergone a strict aging treatment, so high accuracy and rigidity are ensured.
  - The spindle is equipped with high speed hydraulic rotating cylinder and precision draw down collet chuck. Max.rotating speed is 5000 rev/min. Turning roughness is up to Ra0.8~0.4.
  - Precision ball screw is located between guide ways; side torque is eliminated. Imported bearings especially for screws are used and smooth transmission is ensured.
  - Feed screws in longitudinal and cross direction are directly connected with AC servo motors through zero clearance shaft couplings. High accuracy is ensured in transmission.
  - The dovetail comb type tool block ensures easy setting, quick and precise tool change and less repeatability.
  - The high performance intermittent centralized lubrication system lubricates the bed guideways and screws of X/Z-axis in time.
  - The NC controller has color display and USB port, so data transfer is simple.
  - The external electric cabinet is easy to service. The separate rear mounted coolant tank and chip box ensure fluent chip disposal and easy chip removal.
  - The machine is jointly driven mechanically, electrically and pneumatically. Famous brand and electric elements used on the lathe operate reliably.
  - Full enclosed stainless steel guard ensures safe and friendly operation.

### 标准配置 Standard equipment

控制系统: FANUC Oi - TF	Control system: FANUC Oi - TF
主轴轴承: 进口高精度角接触球轴承	Spindle bearing: Imported high precision angular contact ball bearing
丝杠轴承: 进口丝杠专用轴承	Screw bearing: Imported bearing especially for screw
主轴电机: 伺服电机	Spindle motor: Servo motor
进给电机: FANUC伺服电机	Feed motor: FANUC servo motor
导轨: 中频淬硬贴塑导轨	Guideway: Medium frequency hardened and plastic-coated guideways
丝杠: 国产精密滚珠丝杠	Screw: Domestic precision ball screw
油缸: 国产5"中空液压回转油缸	Oil cylinder: Domestic 5" hollow hydraulic rotating cylinder
筒夹: 后拉式液压夹头	Collet chuck: Draw down hydraulic chuck
刀架: 燕尾型精密排式刀架	Turret: Precision dovetail comb type turret

### 可选配置 Optional equipment

- GSK/KND/SYNTEC
  - 台湾5"中空/中实液压三爪卡盘
  - 台湾5"中空/中实液压回转油缸
  - 主轴碟刹装置
  - 动力钻铣装置
  - 前端/后端吹气装置
- GSK/KND/SYNTEC
  - 5" solid/hollow hydraulic 3-jaw chuck from Taiwan
  - 5" solid/hollow hydraulic rotating cylinder from Taiwan
  - Spindle dish type brake
  - Drilling milling unit
  - Front/rear air blowing

### 主要技术参数 Technical data

项目Item		单位Unit	CK6730	CK6730FY
加工范围 Capacity	床身上最大回转直径 Max. swing dia. over bed	mm	Φ300	
	滑板上最大回转直径 Max. swing dia. over slide	mm	Φ130	
	刀架上最大车削直径 Max. turning dia. over tool block	mm	Φ69	
	最大通过棒料直径 Max. bar dia.	mm	Φ30	
	最大加工长度 Max. machining length	mm	200	100
主轴 Spindle	主轴头型式 Type of spindle head		A2-4	
	主轴鼻端尺寸 Size of spindle nose	mm	Φ63.513	
	主轴通孔直径 Spindle thru-hole	mm	Φ41	
	主轴拉杆通孔直径 Thru-hole of spindle draw bar	mm	Φ31	
	主轴最高转速 Max. speed of spindle	rpm	5000	
	工件夹紧方式 Work chucking mode		液压后拉式弹簧夹头 Draw down hydraulic collet chuck	
进给 Feed	X/Z轴行程 Travel X/Z	mm	350/250	150/115
	X/Z轴快移速度 Rapid traverse X/Z	m/min	15/15	
刀架 Turret	刀架型式 Type of turret		排式刀架 Comb turret	8工位液压刀塔 8-station hydraulic turret
	刀方尺寸:车削/镗孔 Tool section: turning/boring	mm	16×16/Φ25	
	刀具中心高 Center height of tool	mm	34.5	66.5
电机 Motor	主电机功率 Power of spindle motor	kW	3.7/5.5	
	主电机扭矩 Torque of spindle motor	Nm	24/35	
	X/Z轴电机功率 Power of motor X/Z	kW	1.2/1.2	1.88/1.88
	X/Z轴电机扭矩 Torque of motor X/Z	Nm	7/7	6/6
	A/Y轴电机功率 Power of motor A/Y	kW	/	1/1
	A/Y轴电机扭矩 Torque of motor A/Y	Nm	/	3.2/3.2
其它 Others	冷却泵功率 Power of coolant pump motor	W	150	
	CNC控制系统 CNC controller		FANUC Oi-TF	GSK 988TA
	电源容量 Power capacity	KVA	12	14
	导轨型式 Type of guideway		硬轨 Sliding guideway	
	机床净重/毛重 Net/gross weight	Kg	2000/2300	2100/2400
机床外形(长×宽×高) Dimension of machine(LxWxH)	mm	1766x1668x2015	1816x1668x2015	
包装箱尺寸(长×宽×高) Dimension of packing box(LxWxH)	mm	2080x1950x2290		