

# 数控立式车床/车削中心 **KDVL320H KDVL460H KDVL600H** CNC VERTICAL LATHE/ TURNING CENTER



## 产品特点：PRODUCT FEATURES

- ◆ 机电液一体化设计，结构紧凑；
  - ◆ X、Z轴均采用精密滚动直线导轨，丝杆装配时已加预拉力，刚性好、精度高；
  - ◆ 采用肖特带动力的伺服刀架，具有钻、铣、攻丝功能；
  - ◆ 主轴为高刚性结构，无级变速，可实现恒线速切削和高强度切削；
  - ◆ 自动集中式润滑，润滑充分、可靠；
  - ◆ 全防护设计，造型美观，操作维修方便；
- 
- ◆ The machine design adopts mechanical , electrical and hydraulic integration method with a compact structure.
  - ◆ X and Z axes adopt precision linear guide ways. Ball screws are pre-extended. It makes the machine with high rigidity and accuracy.
  - ◆ The machine adopts Sauter electric turret with the functions of drilling , milling and tapping.
  - ◆ The spindle is of high rigidity construction to provide variable speed to realize constant linear speed cutting and heavy cutting.
  - ◆ Automatic centralized lubrication with full sufficiency and reliability.
  - ◆ Full protection design with nice shape. Easy to operate and maintain.

## 技术参数：TECHNICAL SPECIFICATIONS

项目 ITEMS		KDVL320H	KDVL460H	KDVL600H
<b>加工 Capacity</b>				
盘类最大车削直径	Max. cutting dia. for disc parts	Φ 250mm	Φ 400mm	Φ 500mm
轴类最大车削直径	Max. cutting dia. for axle parts	Φ 250mm	Φ 400mm	Φ 500mm
最大车削高度	Max. height of turning	420mm	430mm	600mm
<b>主轴 Spindle</b>				
主轴头部形式	Spindle nose	A <sub>1</sub> -6	A <sub>1</sub> -8	A <sub>1</sub> -8
主轴前轴承内径	Front spindle bearing ID	Φ100mm	Φ 120mm	Φ 140mm
主轴转速范围	Spindle speed range	100-2800rpm	100-2000rpm	100-2000rpm
主轴变速级别	Steps of spindle speed	无级 Stepless	无级 Stepless	无级 Stepless
卡盘规格	Chuck dia	10"	12"	18"
<b>行程 Travel</b>				
X轴行程	Travel of X axis	-50; +170mm	-50; +250mm	-30; +300 mm
Z轴行程	Travel of Z axis	450mm	450mm	600mm
<b>进给 Feed</b>				
X轴快速进给	Rapid feed of X axis	20m/min	12m/min	10m/min
Z轴快速进给	Rapid feed of Z axis	20m/min	16m/min	12m/min
<b>刀架 Tool Post</b>				
刀架类型	Type of tool stations	动力刀架 Live tool		
刀架工位数	Number of tool stations	12		
刀杆尺寸(方)	Tool shank size (square)	20 × 20 mm	25 × 25 mm	
刀杆尺寸(圆)	Tool shank size (round)	Φ32 mm	Φ40 mm	
<b>电机 Motor</b>				
主电机功率	Power of main motor	7.5/11kW	15/18.5kW	18.5/22kW
动力刀具伺服电机功率	Live tool serve motor power	2.2/3.7kW	3.7/5.5kW	3.7/5.5kW
液压电机功率	Hydraulic motor	1.5kW	1.5kW	1.5kW
水泵电机功率	Coolant pump motor	200W	200W	370W
<b>其它 Other</b>				
机床外形尺寸(长×宽×高)	Overall dimensions (L × W × H)	1430 × 2340 × 2360mm	1590 × 2670 × 2545mm	2365 × 2700 × 3200mm
机床净重	Net weight	3500kg	4500kg	8000kg
<b>选配 Optional</b>				
系统	CNC system	●	●	●
伺服主电机	Spindle servo motor is optional	●	●	●
自动门	Auto guard	●	●	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可  
● 可选配  
○ 不可  
○ 选配

## 数控立式车床/车削中心

KDVL320 KDVL460 KDVL600

## CNC VERTICAL LATHE/TURNING CENTER



### 产品特点：PRODUCT FEATURES

- ◆ 机电液一体化设计，结构紧凑；
  - ◆ X、Z轴均采用精密滚动直线导轨，丝杆装配时已加预拉力，刚性好、精度高；
  - ◆ 8工位液压回转刀塔，工作可靠、效率高，性能好；
  - ◆ 主轴为高刚性结构，无级变速，可实现恒线速切削和高强度切削；
  - ◆ 自动集中式润滑，润滑充分、可靠；
  - ◆ 全防护设计，造型美观，操作维修方便；
- 
- ◆ The machine design adopts mechanical, electrical and hydraulic integration method with a compact structure.
  - ◆ X and Z axes adopt precision linear guide ways. Ball screws are pre-extended. It makes the machine with high rigidity and accuracy.
  - ◆ 8-way hydraulic turret is reliable, high efficient and good performance.
  - ◆ The spindle is of high rigidity construction to provide variable speed to realize constant linear speed cutting and heavy cutting.
  - ◆ Automatic centralized lubrication with full sufficiency and reliability.
  - ◆ Full protection design with nice shape. Easy to operate and maintain.

### 技术参数：TECHNICAL SPECIFICATIONS

项目 ITEMS		KDVL320	KDVL460	KDVL600
<b>加工 Capacity</b>				
盘类最大车削直径	Max. cutting dia. for disc parts	Φ320mm	Φ500mm	Φ600mm
轴类最大车削直径	Max. cutting dia. for axle parts	Φ320mm	Φ460mm	Φ600mm
最大车削高度	Max. height of turning	420mm	430mm	600mm
<b>主轴 Spindle</b>				
主轴头部形式	Spindle nose	A <sub>1</sub> -6	A <sub>1</sub> -8	A <sub>1</sub> -8
主轴前轴承内径	Front spindle bearing ID	Φ100mm	Φ120mm	Φ140mm
主轴转速范围	Spindle speed range	100-2800rpm	100-2000rpm	100-2000rpm
主轴变速级别	Steps of spindle speed	无级 Stepless	无级 Stepless	无级 Stepless
卡盘规格	Chuck dia	10"	12"	18"
<b>行程 Travel</b>				
X轴行程	Travel of X axis	-50; +170mm	-50; +250mm	-30; +300mm
Z轴行程	Travel of Z axis	450mm	450mm	600mm
<b>进给 Feed</b>				
X轴快速进给	Rapid feed of X axis	20m/min	12m/min	10m/min
Z轴快速进给	Rapid feed of Z axis	20m/min	16m/min	12m/min
<b>刀架 Tool Post</b>				
刀架类型	Type of tool stations	液压 Hydraulic		
刀架工位数	Number of tool stations	8		
刀杆尺寸(方)	Tool shank size (square)	25 × 25 mm		
刀杆尺寸(圆)	Tool shank size (round)	Φ32 mm	Φ40 mm	
<b>电机 Motor</b>				
主电机功率	Power of main motor	7.5/11kW	15/18.5kW	18.5/22kW
液压电机功率	Hydraulic motor	1.5kW	1.5kW	1.5kW
水泵电机功率	Coolant pump motor	200W	200W	370W
<b>其它 Other</b>				
机床外形尺寸(长×宽×高)	Overall dimensions (L×W×H)	1430 × 2340 × 2360mm	1590 × 2670 × 2545mm	2365 × 2700 × 3200mm
机床净重	Net weight	3500kg	4500kg	8000kg
<b>选配 Optional</b>				
系统	CNC system	●	●	●
伺服主电机	Spindle servo motor is optional	●	●	●
自动门	Auto guard	●	●	●

注：以上参数可以按客户的需求进行更改设计。  
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○ 不可选配

# 数控立式车床/车削中心 **KDVL1250 KDVL1350**

## CNC VERTICAL LATHE/ TURNING CENTER



### 产品特点：PRODUCT FEATURES

#### KDVL1250

- ◆ 机床主传动采用22kW交流伺服电机驱动，通过两档机械变速机构和大齿轮传动实现减速增扭，从而实现低速大扭矩和高速大功率输出；
- ◆ 机床导轨采用重载型滚柱导轨，导轨承载能力大，刚性强；
- ◆ 主轴采用先进的交叉滚子轴承，回转精度高，刚性强；
- ◆ 本机床采用单主轴，双刀架结构，是加工轮辐零件、复杂盘类、短轴零件的首选；
- ◆ 自动集中润滑，润滑充分，可靠；
- ◆ This machine equips an AC servo motor with 22kW , two steps spindle speed manually changing structure and big gears transmission assure the machine high torque and high power out-put during low speed running.
- ◆ This machine adopts roller guides with high rigidity and heavy load.
- ◆ Cross roller bearings makes sure the machine high rotating accuracy and rigidity.
- ◆ Single spindle and double turrets structure are good for complicated and wheel parts machining.
- ◆ Automatic centralized lubrication with full sufficiency and reliability.

#### KDVL1350

- ◆ 采用发那科控制系统及伺服电机。
- ◆ 主传动采用大功率主轴伺服电机与德国产ZF二段变速箱结合，增大主轴转速范围，输出扭矩，耐重切削。
- ◆ 主轴轴承选用THK交叉滚柱轴承，内径达到Φ500之大，使主轴具有极高的刚性，适合大型工件及非对称性工件加工。
- ◆ 横梁可以任意上下升降，横梁移动夹紧、松开装置为液压松开、机械（弹簧夹紧），操作方便可靠。
- ◆ X/Z轴为对称式箱型结构，矩形导轨，均经过超音频淬火。
- ◆ 自动集中式润滑，润滑充分、可靠；
- ◆ The machine adopts FNAUC cnc system servo moter.
- ◆ The main drive adopts combination of big power spindle servo motor and German ZF double speed reducer to increase spindle speed rang and output torque for heavy load cutting.
- ◆ THK cross roller bearings are selected for spindle bearings. Their inner diameter reaches Φ500mm so that the spindle system is of high rigidity and suitable for machining large work pieces and asymmetric parts.
- ◆ The cross rail can be moved up and down at will. Clamping and releasing of the cross rail are effected by mechanical (springs) and hydraulic respectively. The operation is easy and reliable.
- ◆ X/Z axis adopt symmetric box type rectangular guide which are supersonic frequency hardened.
- ◆ Automatic lubrication system, fully and reliable.

### 技术参数：TECHNICAL SPECIFICATIONS

项目 ITEMS		KDVL1250		KDVL1350
<b>加工 Capacity</b>				
盘类最大车削直径	Max. cutting dia. for disc parts	Φ1350mm		Φ1800mm
轴类最大车削直径	Max. cutting dia. for axle parts	Φ1290mm		Φ1350mm
最大车削高度	Max. height of turning	800mm		1100mm
<b>主轴 Spindle</b>				
主轴前轴承内径	Front spindle bearing ID	Φ452.7mm		Φ500mm
主轴转速范围	Spindle speed range	6 ~ 300rpm		2~142r/min 142~350r/min
主轴变速级别	Steps of spindle speed	二档 Two grades ( 档内无级 stepless )		二档 Two grades ( 档内无级 stepless )
卡盘规格	Chuck dia	Φ1100mm		手动四爪 Manual 4 jaw chuck
<b>行程 Travel</b>				
X轴行程	Travel of X axis	X1: -15~+635mm	X2: -600~+50mm	1300+50mm
Z轴行程	Travel of Z axis	Z1: 840mm	Z2: 840mm	900mm
横梁行程	Travel of cross rail			800mm
<b>进给 Feed</b>				
X轴快速进给	Rapid feed of X axis	15m/min		12m/min
Z轴快速进给	Rapid feed of Z axis	15m/min		10m/min
<b>刀架 Tool Post</b>		<b>刀架1</b>		<b>刀架2</b>
刀架形式	Type of tool post	电动刀架 Electrical	八方滑枕形式 Mechanical	数控立式CNC vertical
刀架工位数	Number of tool stations	四工位 4-ways	单工位 Single	6
刀杆尺寸(方)	Tool shank size (square)	32 x 32 mm		32 x 32 mm
刀杆尺寸(圆)	Tool shank size (round)	Φ50 mm		Φ50 mm
<b>电机 Motor</b>				
主电机功率	Main motor power	22/30kW		37/45kW
液压电机功率	Hydraulic motor power	3.75kW		3.75kW
水泵电机功率	Coolant pump motor power	0.54kW x 2		1.17kW x 2
X轴伺服电机功率	Servo motor of X axis power	X1: 38 kW	X1: 30 kW	9 kW
Z轴伺服电机功率	Servo motor of Z axis power	Z1: 38 kW	Z1: 30 kW	6 kW
横梁升降电机功率	Motor of lifting rail			2.2 kW
<b>其它 Other</b>				
机床外形尺寸(长×宽×高)(带排屑器) Overall dimensions (L×W×H) With chip conveying system		3500 x 3000 x 4000mm		5200 x 3900 x 4200mm
机床净重	Net weight	12000kg		19000kg
<b>选配 Optional</b>				
系统	CNC system	●		●
伺服主电机	Spindle servo motor is optional	●		●
自动门	Auto guard	●		●

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○不可选配

# 浙江凯达机床股份有限公司 Zhejiang Kaida Machine Tool Co., Ltd

## 数控立式车床/车削中心 Cnc Vertical Lathe/ Turning Center



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(2017年)

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# CONTENT

## 目录

1	<b>选配配置介绍</b> Introduction of optional configuration	2
2	<b>数控立式车床适用范围</b> The application of vertical CNC lathe	2
3	<b>数控立式车床/车削中心</b> Cnc Vertical Lathe/ Turning Center	
	◆ KDVL320    KDVL460    KDVL600	3
	◆ KDVL320H    KDVL460H    KDVL600H	5
	◆ KDVL800    KDVL1000	7
	◆ KDVL1250    KDVL1350	9

## 选配配置介绍

Introduction of optional configuration

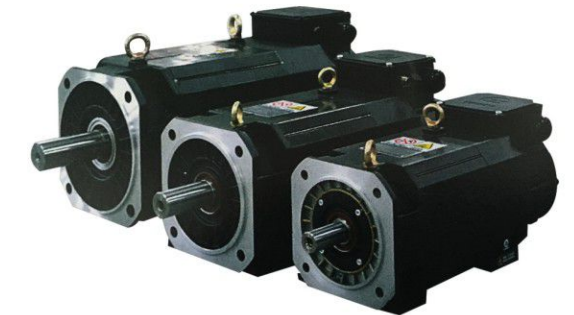
### ◆ 系统 CNC system

支持国内外各类数控系统。  
Both local and foreign brands cnc system can be adopted according to customer's requirements.



### ◆ 伺服主电机 Spindle servo motor is optional

宽域电机 Wide range constant power motor



## 数控立式车床适用范围

The application of vertical CNC lathe

该类机床最适合加工形状复杂的回转零件，能进行柱面、曲面、锥面、阶梯面的车削加工。不仅能进行外圆车削和内圆车削，还能进行各种内外螺纹的车削，也可进行钻孔、铰孔、攻丝和滚压加工。

该机床具有功能强大的内装PLC控制器，及比较完善的RS232通讯接口，通过这些装置可以和工业机器人及上一级计算机管理实现柔性加工线进行无人化操作，适用于在自动加工线上

Vertical cnc lathe is most suitable in processing of complex swing products, and can produce cylinder, surface, cone, ladder. It not only applies to outer and inner diameter turning, but only to inner treading, outer treading, drilling, reaming, tapping and rolling.

The machine is with powerful functions PLC controller and a perfect RS232 communication interface. Through these devices, it can realize flexible product lines unmanned operation with industrial robot and upper computer, which apply to automatic processing line.



# 数控立式车床/车削中心 **KDVL800 KDVL1000** CNC VERTICAL LATHE/ TURNING CENTER



## 产品特点：PRODUCT FEATURES

- ◆ 机床为整体箱型结构，矩形截面立柱，刚性好，耐重切削，精度保持性强。
  - ◆ 主传动配置德国ZF二段减速箱；
  - ◆ 主轴轴径大，轴承结构刚性好，可进行高精度强力切削；
  - ◆ 纵、横向运动采用十字滑枕式结构形式，纵向运动配有自动平衡装置；
  - ◆ 全防护设计，造型美观，操作维修方便；
- 
- ◆ The machine has an integrated box shape construction with a column of rectangular section, It has a good rigidity and can undertake heavy duty cut with long term precision keeping.
  - ◆ The main drive adopts German ZF double speed reducer.
  - ◆ Big shaft diameter of spindle and high rigidity of bearing make the machine suitable for high precision heavy cutting.
  - ◆ longitudinal and cross feeds are made by means of cross-like slide with a self-balancing system for the longitudinal.
  - ◆ Full protection design with nice shape. Easy to operate and maintain.

## 技术参数：TECHNICAL SPECIFICATIONS

项目 ITEMS		KDVL800	KDVL1000
<b>加工 Capacity</b>			
盘类最大车削直径 Max. cutting dia. for disc parts		Φ 800mm	Φ 1000mm
轴类最大车削直径 Max. cutting dia. for axle parts		Φ 620mm	Φ 650mm
最大车削高度 Max. height of turning		650mm	800mm
<b>主轴 Spindle</b>			
主轴头部形式 Spindle nose		A <sub>1</sub> -11	A <sub>1</sub> -11
主轴前轴承内径 Front spindle bearing ID		Φ180mm	Φ 220mm
主轴转速范围 Spindle speed range		50-2000rpm	50-1200rpm
主轴变速级别 Steps of spindle speed		二档 Two grades ( 档内无级 stepless )	二档 Two grades ( 档内无级 stepless )
卡盘规格 Chuck dia		20"	21"
<b>行程 Travel</b>			
X轴行程 Travel of X axis		-60; +460mm	-50; +600mm
Z轴行程 Travel of Z axis		650mm	900mm
<b>进给 Feed</b>			
X轴快速进给 Rapid feed of X axis		12m/min	12m/min
Z轴快速进给 Rapid feed of Z axis		16m/min	16m/min
<b>刀架 Tool Post</b>			
刀架类型 Type of tool stations		液压刀架 Hydraulic	液压刀架 Hydraulic
刀架工位数 Number of tool stations		8	8
刀杆尺寸 (方) Tool shank size (square)		32 × 32 mm	32 × 32 mm
刀杆尺寸 (圆) Tool shank size (round)		Φ 50 mm	Φ 50 mm
<b>电机 Motor</b>			
主电机功率 Power of main motor		22/26kW	30/37kW
液压电机功率 Hydraulic motor		1.5kW	1.5kW
水泵电机功率 Coolant pump motor		370W × 2	370W × 2
<b>其它 Other</b>			
机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L × W × H)		2970 × 2440 × 3350mm	3170 × 2300 × 3750mm
机床净重 Net weight		11500kg	14000kg
<b>选配 Optional</b>			
系统 CNC system		●	●
伺服主电机 Spindle servo motor is optional		●	●
自动门 Auto guard		●	●

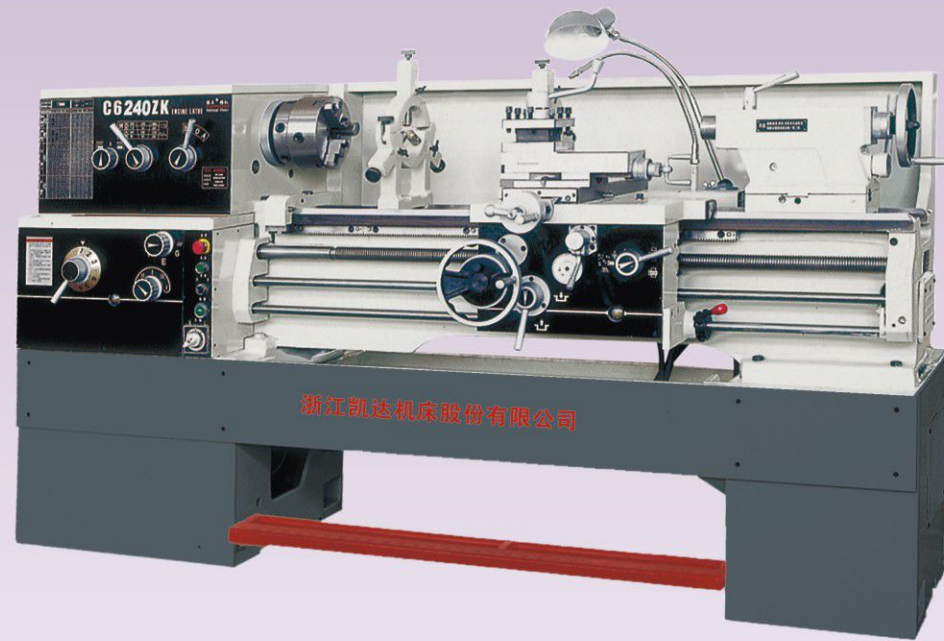
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Above specifications can be customized against clients' request.

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● 可选配  
○ 不可选配

普通卧式车床  
ENGINE LATHE

C6136ZK C6236ZK C6140ZK C6240ZK  
C6146ZK C6246ZK



产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削。
- ◆ 主轴系统刚性好，精度高。
- ◆ 机床传动链短，齿轮传动精度高，整机运行平稳，噪音低。
- ◆ 溜板箱内设有超负荷保险装置。
- ◆ 带有脚踏或电磁制动装置。
  
- ◆ The guideways and all gears in the headstock are hardened and precision ground.
- ◆ The spindle system is high in rigidity and accuracy.
- ◆ The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- ◆ An overload safety device is provided on the apron.
- ◆ Has a pedal or an electromagnetic braking device.

技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	C6136ZK/C6236ZK	C6140ZK/C6240ZK	C6146ZK/C6246ZK	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ360mm	Φ400mm	Φ460mm	
	刀架上 Over carriage	Φ195mm	Φ255mm	Φ275mm	
	马鞍槽内 (仅62系列) In gap (Only for 62 series)	Φ520mm	Φ570mm	Φ630mm	
床身宽度 Width of bed		312mm			
最大工件长度 Max. length of workpiece		750/1000/1500mm			
最大车削长度 Maximum turned length		650/900/1400 mm			
马鞍槽有效长度 Effective gap length (仅62系列)		200mm			
主轴 Spindle	主轴头形式 Spindle nose	D6			
	通孔直径 Spindle bore	Φ52mm			
	内孔锥度 Taper of bore	M.T.No.5 or M.T.No.6	M.T.No.6		
	转速级数 Number of speeds	12 Steps			
	转速范围 Range of speeds	40~1800r/min			
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	0.5~20mm/24			
	英制 范围/种数 Inch range/No.	72~1~5/8 T.P.1/61			
	径节 范围/种数 D.P. Range/No.	96~3~1/4 D.P/45			
	模数 范围/种数 Module range/No.	0.25~10M.P/20			
进给量 Range of feeds	纵向 Longitudinal	0.04~2.46mm (0.0015"~0.0913")			
	横向 Cross	0.03~1.23mm (0.0006"~0.0365")			
尾座套筒 Tailstock sleeve	外径 External diameter	Φ60mm			
	内孔锥度 Taper of bore	M.T.No.4			
	最大行程 Max. traverse	120mm			
小刀架最大移动距离 Max. travel of compound rest		130mm			
横溜板最大移动距离 Max. cross slide travel		210mm	240mm		
车刀刀杆最大尺寸 (宽×高) Max. size of tool shank (W×H)		20×20mm			
主电动机功率 (双速) Power of main motor (double speeds)		3/4kW	4/5.5kW		
外形尺寸 (长×宽×高) Overall dimensions (L×W×H)		2140/2360/2860×1000×1200mm			
净重量 Net weight		1600/1680/1840kg 1680/1760/1920kg	1650/1730/1890kg 1730/1810/1970kg	1700/1780/1940kg 1780/1860/2020kg	
选配 Optional	中心架 Steady rest	●	●	●	
	跟刀架 Follow rest	●	●	●	
	三防 Protection	卡盘防护 Chuck guard	●	●	●
		刀架防护 Tool post guard	●	●	●
丝杆防护 Leadscrew guard		●	●	●	

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可选配  
○ 不可选配

# 普通卧式车床 ENGINE LATHE

## C6140W



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削，寿命长，噪音低。
- ◆ 主轴系统刚性好，精度高。
- ◆ 溜板箱内设有超负荷保险装置。
- ◆ 床头箱用离合器结构。
  
- ◆ Hardened and ground bed way and gears in headstock are with long life and low noise.
- ◆ Spindle system is of high rigidity and precision.
- ◆ Rapid feed structure is available on Apron.
- ◆ Headstock adopts clutch structure.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	C6140W	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ420mm	
	刀架上 Over carriage	Φ220mm	
床身宽度	Width of bed	405mm	
最大工件长度	Max. length of workpiece	1000/1500/2000mm	
最大车削长度	Maximum turned length	890/1390/1890mm	
主轴 Spindle	主轴头形式 Spindle nose	C6 ( A—6 )	
	通孔直径 Spindle bore	Φ56mm	
	内孔锥度 Taper of bore	M.T.No.6	
	转速级数 Number of speeds	24 Steps	
	转速范围 Range of speeds	9~1600r/min	
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	0.5~224mm/48	
	英制 范围/种数 Inch range/No.	72~1/8T.P.I/48	
	径节 范围/种数 D.P. Range/No.	56~1/4D.P/45	
	模数 范围/种数 Module range/No.	0.5~112M.P/42	
进给量 Range of feeds	纵向 Longitudinal	0.028~6.43mm ( 0.0010"~0.2392" )	
	横向 Cross	0.012~2.73mm ( 0.0004"~0.1016" )	
尾座套筒 Tailstock sleeve	外径 External diameter	Φ75mm	
	内孔锥度 Taper of bore	M.T.No.5	
	最大行程 Max. traverse	150mm	
小刀架最大移动距离	Max. travel of compound rest	145mm	
横溜板最大移动距离	Max. cross slide travel	320mm	
车刀刀杆最大尺寸 (宽×高) Max. size of tool shank ( W×H )		25×25mm	
主电动机功率 (双速) Power of main motor ( double speeds )		7.5kW	
外形尺寸 (长×宽×高) Overall dimensions ( L×W×H )		2500/3000/3500×1000×1285mm	
净重量	Net weight	2550/2750/2950kg	
选配 Optional	中心架 Steady rest	●	
	跟刀架 Follow rest	●	
	三防 Protection	卡盘防护 Chuck guard	●
		刀架防护 Tool post guard	●
丝杆防护 Leadscrew guard		●	

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
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注：  
● 可选配  
○ 不可选配



# 普通卧式车床 ENGINE LATHE

## C6250A



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨经超音频淬火后精磨，寿命长。齿轮经精密磨削，整机噪音低。
- ◆ 主轴通孔  $\Phi 80\text{mm}$ ，主轴系统刚性好，精度高。
- ◆ 溜板箱带快进快退机构。
  
- ◆ The surface of the bedways is supersonic frequency hardened.
- ◆ The spindle bore size is 80mm. The spindle system is high in rigidity and accuracy.
- ◆ Rapid feed structure is available on apron.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	C6250A	
最大回转直径 Max. swing diameter	床身上 Over bed	$\Phi 500\text{mm}$	
	刀架上 Over carriage	$\Phi 310\text{mm}$	
	马鞍槽内 In gap	$\Phi 720\text{mm}$	
床身宽度 Width of bed		405mm	
最大工件长度（两顶尖） Max. length of workpiece ( Two centers )		1000/1500/2000/3000mm	
最大车削长度 Maximum turned length		850/1350/1850/2850mm	
主轴 Spindle	主轴头形式 Spindle nose	D8	
	通孔直径 Spindle bore	$\Phi 80\text{mm}$	
	内孔锥度 Taper of bore	M.T.No.7	
	转速级数 Number of speeds	12 Steps	
	转速范围 Range of speeds	36~1600r/min	
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	1~14mm/22	
	英制 范围/种数 Inch range/No.	28~2T.P.I/26	
	径节 范围/种数 D.P. Range/No.	56~4D.P/24	
	模数 范围/种数 Module range/No.	0.5~7M.P/18	
进给量 Range of feeds	纵向 Longitudinal	0.063~2.52mm ( 0.023"~0.937" )	
	横向 Cross	0.027~1.07mm ( 0.010"~0.404" )	
快速移动速度 Rapid traverse	纵向 Longitudinal	4.5m/min	
	横向 Cross	1.9m/min	
小刀架最大行程 Max.travel of top slide		145mm	
横溜板最大行程 Max.travel of cross slide		340mm	
车刀刀杆最大尺寸（宽×高） Max. size of tool shank ( W×H )		25×25mm	
尾座套筒 Tailstock sleeve	外径 External diameter	$\Phi 75\text{mm}$	
	内孔锥度 Taper of bore	M.T.No.5	
	最大行程 Max. traverse	150mm	
主电动机功率（双速） Power of main motor ( double speeds )		7.5kW	
外形尺寸（长×宽×高） Overall dimensions ( L×W×H )		2500/3000/3500/4500×1100×1380mm	
净重量 Net weight		2900/3150/3400/3750kg	
选配 Optional	中心架 Steady rest	●	
	跟刀架 Follow rest	●	
	三防 Protection	卡盘防护 Chuck guard	●
		刀架防护 Tool post guard	
丝杆防护 Leadscrew guard			

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：  
● 可选配  
○ 不可选配

# 普通卧式车床 ENGINE LATHE

## C6250B C6266B



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨经超音频淬火后精磨，寿命长。齿轮经精密磨削，整机噪音低。
- ◆ 主轴通孔  $\Phi 80\text{mm}$ ，主轴系统刚性好，精度高。
- ◆ 溜板箱带快进快退机构。
  
- ◆ The surface of the bedways is supersonic frequency hardened.
- ◆ The spindle bore size is 80mm. The spindle system is high in rigidity and accuracy.
- ◆ Rapid feed structure is available on apron.

### 技术参数：TECHNICAL SPECIFICATIONS

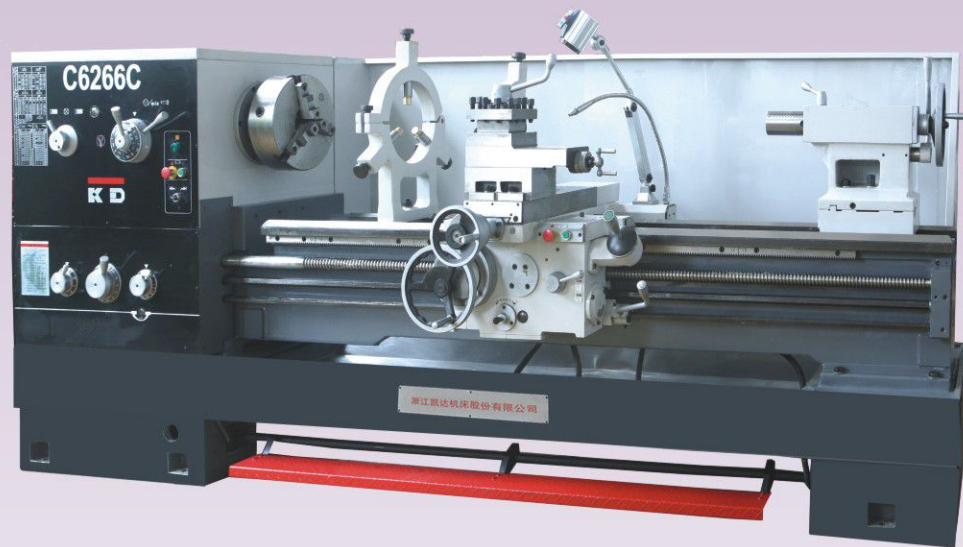
参数 Item	型号 Model	C6250B	C6266B	
最大回转直径 Max. swing diameter	床身上 Over bed	$\Phi 500\text{mm}$	$\Phi 660\text{mm}$	
	刀架上 Over carriage	$\Phi 310\text{mm}$	$\Phi 420\text{mm}$	
	马鞍槽内 Over gap	$\Phi 720\text{mm}$	$\Phi 870\text{mm}$	
床身宽度 Width of bed		405mm		
最大工件长度 Max. length of workpiece		1000/1500/2000/3000mm		
最大车削长度 Maximum turned length		850/1350/1850/2850mm		
主轴 Spindle	主轴头形式 Spindle nose	D8		
	通孔直径 Spindle bore	$\Phi 80\text{mm}$		
	内孔锥度 Taper of bore	M.T.No.7		
	转速级数 Number of speeds	24 Steps		
	转速范围 Range of speeds	9~1600r/min		
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	1~224mm/46		
	英制 范围/种数 Inch range/No.	28~1/8T.P.I./46		
	径节 范围/种数 D.P. Range/No.	56~1/4D.P./45		
	模数 范围/种数 Module range/No.	0.5~112M.P/42		
进给量 Range of feeds	纵向 Longitudinal	0.063~6.43 (0.0023"~0.2392")		
	横向 Cross	0.027~2.73 (0.0010"~0.1016")		
快速移动速度 Rapid traverse	纵向 Longitudinal	4.5m/min		
	横向 Cross	1.9m/min		
尾座套筒 Tailstock sleeve	外径 External diameter	$\Phi 75\text{mm}$		
	内孔锥度 Taper of bore	M.T.No.5		
	最大行程 Max. traverse	150mm		
小刀架最大移动距离 Max. travel of compound rest		145mm		
横溜板最大移动距离 Max. cross slide travel		340mm	360mm	
车刀刀杆最大尺寸(宽×高) Max. size of tool shank (W×H)		25 × 25mm		
主电动机功率 Power of main motor		7.5kW		
外形尺寸(长×宽×高) Overall dimensions (L×W×H)		2500/3000/3500/4500 × 900 × 1259mm	2500/3000/3500/4500 × 1100 × 1450mm	
净重量 Net weight		2750/3000/3250/3600kg	3000/3200/3400/3900kg	
选配 Optional	中心架 Steady rest	●		
	跟刀架 Follow rest	●		
	三防 Protection	卡盘防护 Chuck guard	●	
		刀架防护 Tool post guard	●	
丝杆防护 Leadscrew guard		●		

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：  
● 可选配  
○ 不可选配

# 普通卧式车床 ENGINE LATHE

## C6256C C6266C C6277C



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨经超声波淬火后精磨，寿命长。齿轮经精密磨削，整机噪音低。
  - ◆ 主轴通孔Φ105mm，主轴系统刚性好，精度高。
  - ◆ 无需调换挂轮能车削公制、英制、模数、径节共90种螺纹，通过调换挂轮，还能车削多种螺纹。
  - ◆ 设有全长定程装置，安全可靠。
- 
- ◆ The surface of the bedways is supersonic frequency hardened.
  - ◆ The spindle bore size is 105mm. The spindle system is high in rigidity and accuracy.
  - ◆ There is no need for change gear. The machine can turn about 90 kind of metric, Inch, Module, and D.P. threads.
  - ◆ An automatic stopping device is used to realize automatic stop for the machining of a workpiece of a certain length.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	C6256C	C6266C	C6277C	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ560mm	Φ660mm	Φ770mm	
	刀架上 Over carriage	Φ360mm	Φ420mm	Φ575mm	
	马鞍槽内 Over gap	Φ770mm	Φ870mm	Φ1050mm	
床身宽度 Width of bed		405mm			
最大工件长度 Max. length of workpiece		1000/1500/2000/3000mm		3000mm	
最大车削长度 Maximum turned length		830/1330/1830/2830mm			
马鞍槽有效长度 Effective gap length		230mm			
主轴 Spindle	主轴头形式 Spindle nose	D8			
	通孔直径 Spindle bore	Φ105mm			
	内孔锥度 Taper of bore	Φ113mm			
	转速级数 Number of speeds	12 Steps			
	转速范围 Range of speeds	36~1600r/min			
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	1~14mm/22			
	英制 范围/种数 Inch range/No.	28~2T.P./26			
	径节 范围/种数 D.P. Range/No.	56~4D.P./24			
	模数 范围/种数 Module range/No.	0.5~7M.P./18			
进给量 Range of feeds	纵向 Longitudinal	0.063~2.52mm/r			
	横向 Cross	0.027~1.07mm/r			
尾座套筒 Tailstock sleeve	外径 External diameter	Φ75mm			
	内孔锥度 Taper of bore	M.T.No.5			
	最大行程 Max. traverse	150mm			
小刀架最大移动距离 Max. travel of compound rest		145mm			
横溜板最大移动距离 Max. cross slide travel		310mm	360mm	430mm	
车刀刀杆最大尺寸(宽×高) Max. size of tool shank (W×H)		25×25mm			
主电动机功率(双速) Power of main motor (double speeds)		7.5kW			
外形尺寸(长×宽×高) Overall dimensions (L×W×H)		2500/3000/3500/4500×1100×1350mm	2500/3000/3500/4500×1100×1450mm	4500×1100×1540mm	
净重量 Net weight		2400/2650/2900/3250kg	3000/3200/3400/3900kg	4000kg	
选配 Optional	中心架 Steady rest		●		
	跟刀架 Follow rest		●		
	三防 Protection	卡盘防护 Chuck guard		●	
		刀架防护 Tool post guard		●	
丝杆防护 Leadscrew guard			●		

注：以上参数可以按客户的需求进行更改设计。  
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以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：●可  
选配 ○不可  
选配

# 普通卧式车床 ENGINE LATHE

## CDL400 CDL510 CDL660



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨经超音频淬火后精磨，寿命长。齿轮经精密磨削，整机噪音低。
  - ◆ 主轴通孔  $\Phi 52\text{mm}$ ，主轴系统刚性好，精度高。
  - ◆ 无需调换挂轮能车削公制、英制、模数、径节共150种螺纹，通过调换挂轮，还能车削多种螺纹。
  - ◆ 设有全长定程装置，安全可靠。
- ◆ The surface of the bedways is supersonic frequency handened.
  - ◆ The spindle bore size is 52mm. The spindle system is high in rigidity and accuracy.
  - ◆ There is no need to change gears. The machine can turn about 150 kind of metric, Inch, Module, and D.P. threads.
  - ◆ An automatic stopping device is used to realize automatic stop for the machining of a workpiece of a certain length.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	CDL400	CDL510	CL6266	
最大回转直径 Max. swing diameter	床身上 Over bed	$\Phi 400\text{mm}$	$\Phi 540\text{mm}$	$\Phi 660\text{mm}$	
	刀架上 Over carriage	$\Phi 255\text{mm}$	$\Phi 335\text{mm}$	$\Phi 460\text{mm}$	
	马鞍槽内 In gap	$\Phi 570\text{mm}$	$\Phi 700\text{mm}$	$\Phi 820\text{mm}$	
床身宽度 Width of bed		$\Phi 312\text{mm}$			
最大工件长度(两顶尖) Max. length of workpiece		1000mm	1500mm	2200mm	
马鞍槽有效长度 Effective gap length (仅62系列)		200mm			
主轴 Spindle	主轴头形式 Spindle nose	D6			
	通孔直径 Spindle bore	$\Phi 52\text{mm}$			
	内孔锥度 Taper of bore	M.T.No.6			
	转速级数 Number of speeds	12 Steps	16 Steps	16 Steps	
	转速范围 Range of speeds	40~1800r/min	27~2000 r/min	27~2000 r/min	
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	0.5~20mm24			
	英制 范围/种数 Inch range/No.	72~1~5/8T.P.I/61			
	径节 范围/种数 D.P. Range/No.	96~3~1/4D.P/45			
	模数 范围/种数 Module range/No.	0.25~10M.P/20			
进给量 Range of feeds	纵向 Longitudinal	0.04~2.46mm			
	横向 Cross	0.03~1.23mm			
尾座套筒 Tailstock sleeve	外径 External diameter	$\Phi 60\text{mm}$			
	内孔锥度 Taper of bore	M.T.No.4			
	最大行程 Max. traverse	120mm			
小刀架最大移动距离 Max. travel of compound rest		100mm			
横溜板最大移动距离 Max. cross slide travel		240mm	350mm	350mm	
车刀刀杆最大尺寸(宽×高) Max. size of tool shank (W×H)		20×20mm	25×25mm	25×25mm	
主电动机功率(双速) Power of main motor (double speeds)		4/5.5kW	4/5.5kW	4/5.5kW	
外形尺寸(长×宽×高) Overall dimensions (L×W×H)		2360×1000×1200mm	2360×1024×1340mm	3500×1024×1400mm	
净重量 Net weight		1810kg	2200kg	2550kg	
选配 Optional	中心架 Steady rest	●	●	●	
	跟刀架 Follow rest	●	●	●	
	三防 Protection	卡盘防护 Chuck guard	●	●	●
		刀架防护 Tool post guard	●	●	●
丝杆防护 Leadscrew guard		●	●	●	

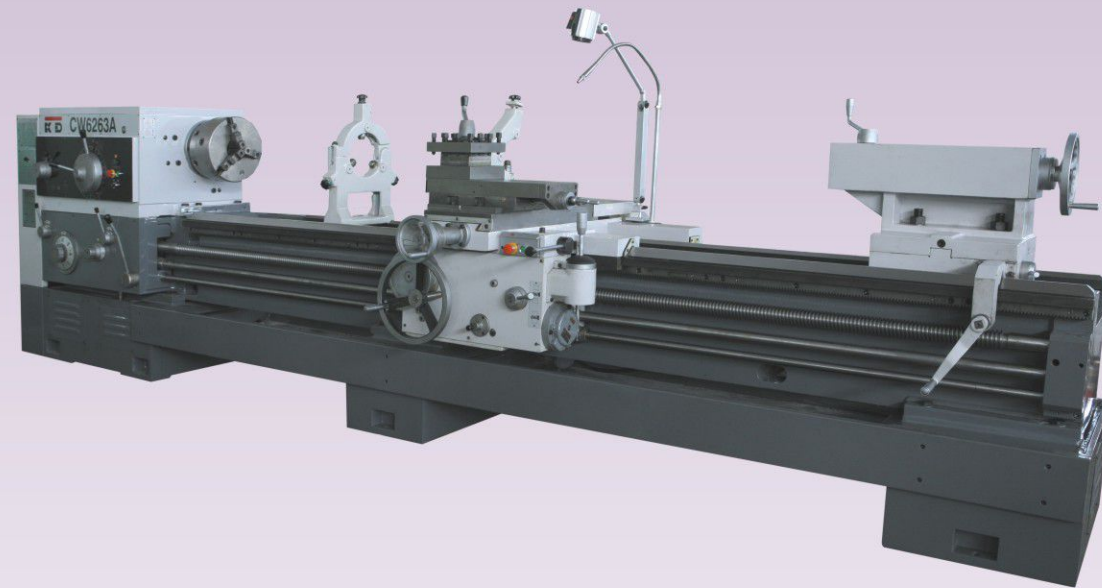
注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可  
● 可选配  
○ 不可  
○ 选配

# 大型卧式车床 LARGE ENGINE LATHE

**CW6163A CW6263A**  
**CW6180A CW6280A**



## 产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削，寿命长，噪音低。
- ◆ 主轴系统刚性好，精度高。
- ◆ 溜板箱带快进快退机构。
- ◆ 床头箱用液压离合器机构，起动平稳，制动迅速。
- ◆ 床身具有尾架止退齿槽。
  
- ◆ The surface of the bedways is supersonic frequency handened.
- ◆ The spindle system is high in rigidity and accuracy.
- ◆ Rapid feed structure is available on apron.
- ◆ Clutch in headstock makes the lathe start smoothly and brake quickly.
- ◆ Gear grooves are available on bed to prevent tailstock from retreating.

## 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	CW6163A/CW6263A	CW6180A/CW6280A	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ630mm	Φ800mm	
	刀架上 Over carriage	Φ370mm	Φ510mm	
	马鞍槽内 (仅62系列) In gap (Only for 62 series)	Φ830mm	Φ1000mm	
床身宽度	Width of bed	560mm		
最大工件长度	Max. length of workpiece	1000/1500/2000/3000/4000mm		
最大车削长度	Maximum turned length	650/1150/1650/2650/3650mm		
马鞍槽有效长度	Effective gap length	310mm		
两顶尖之间最大工件支撑重量 Max. Weight of work piece(between centers)		2000Kg		
主轴 Spindle	主轴头形式 Spindle nose	D11		
	通孔直径 Spindle bore	Φ105mm		
	锥孔直径和锥度 Taper bore	公制 Metric Φ120 1:20		
	转速级数 Number of speeds	18 Steps		
	转速范围 Range of speeds	7.5~1000r/min		
纵向丝杆螺距/直径	Pitch of longitudinal ball screw/diameter	12mm/Φ55mm		
纵向进给量种数	Number of longitudinal feeds	64		
纵向进给量范围	Range of longitudinal feeds (1:1)	0.1~1.52r/min		
	Range of longitudinal feeds (16:1)	1.6~24.3r/min		
横向进给量种数	Number of cross feeds	64		
横向进给量范围	Range of cross feeds	纵向进给量的0.5倍 half of longitudinal feeds		
切削螺纹 Thread cutting	公制 螺纹 Metric pitch threads	1~240mm/50		
	英制 螺纹 Whit-worth threads	14~1T.P./26		
	径节 螺纹 Module threads	28~1D.P/24		
	模数 螺纹 D.P. Threads	0.5~120M.P/53		
快速移动速度 Rapid traverse	纵向 Longitudinal	4000mm/min		
	横向 Cross	2000mm/min		
尾座套筒 Tailstock sleeve	外径 External diameter	Φ100mm		
	内孔锥度 Taper of bore	M.T.No.6		
	最大行程 Max. traverse	230mm		
主轴中心至刀具支承面的距离 Vertical distance from spindle center to installing basis		33mm		
小刀架最大移动距离	Max. travel of compound rest	200mm		
中刀架最大回转角度	Swing angle of tool post	±90°		
横溜板最大移动距离	Max. cross slide travel	440mm	480mm	
车刀刀杆最大尺寸 (宽×高) Max. size of tool shank (W×H)		32×32mm		
主电动机功率 Power of main motor		11kW		
刀架快速移动电机功率 Rapid feed motor power		1.1 kW		
冷却泵功率 Coolant pump power		90W		
外形尺寸 (长×宽×高) Overall dimensions (L×W×H)		3275/3725/4225/5225/6275×1393×1537mm		
净重量 Net weight		3400/3700/4200/4700/5800kg	3600/3900/4400/4900/6000kg	
选配 Optional	中心架 Steady rest	●		
	跟刀架 Follow rest	●		
	三防 Protection	卡盘防护 Chuck guard	●	
		刀架防护 Tool post guard	●	
丝杆防护 Leadscrew guard		●		

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：  
● 可选配  
○ 不可选配

# 大型卧式车床 LARGE ENGINE LATHE

CW61100C/CW62100C CW61125C/CW62125C  
CW61140C/CW62140C



## 产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削，寿命长，噪音低。
- ◆ 主轴系统刚性好，精度高。
- ◆ 溜板箱带快进快退机构。
- ◆ 床头箱用液压离合器机构，起动平稳，制动迅速。

- ◆ The surface of the bedways is supersonic frequency handened and precision grinding, long life, low noise.
- ◆ The spindle system is high in rigidity and accuracy.
- ◆ Rapid feed structure is available on apron.
- ◆ Clutch in headstock makes the lathe start smoothly and brake quickly.

## 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	CW61100C/CW62100C	CW61125C/CW62125C	CW61140C/CW62140C	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ1000mm	Φ1250mm	Φ1400mm	
	刀架上 Over carriage	Φ600mm	Φ865mm	Φ1015mm	
	马鞍槽内 (仅62系列) In gap (Only for 62 series)	Φ1380mm	Φ1750mm	Φ1900mm	
床身宽度 Width of bed		755mm			
最大工件长度 Max. length of workpiece		1.5/2/3/4/5/6/8/10/12m			
最大车削长度 Maximum turned length		1.3/1.8/2.8/3.8/4.8/5.8/7.8/9.8/11.8m			
马鞍槽有效长度 Effective length of gap		590mm			
两顶尖之间最大工件支撑重量 Max. Weight of work piece(between centers)		5000Kg			
主轴 Spindle	主轴头形式 Spindle nose	A <sub>2</sub> -15			
	通孔直径 Spindle bore	Φ130mm			
	锥孔直径和锥度 Taper bore	公制 Metric Φ140 1:20			
	转速级数 Number of speeds	24(正Normal) 12(反Reverse)			
	转速范围 Range of speeds	2.5~250r/min			
纵向丝杆螺距/直径 Pitch of longitudinal ball screw/diameter		12mm/Φ70mm			
纵、横向往进给种数 Number of longitudinal and cross feeds		97			
主軸上每转刀架的进给范围 Feed range of tool post for per rev. of spindle	纵向 Longitudinal	0.1~12mm/r			
	横向 Cross	0.05~6 mm/r			
	中架刀 Middle tool post	0.025~3 mm/r			
切削螺纹 Thread cutting	公制 螺纹 Metric pitch threads	1~120mm/45			
	英制 螺纹 Whit-worth threads	30~1/4T.P.I/42			
	径节 螺纹 Module threads	0.5~60D.P/48			
	模数 螺纹 D.P. Threads	1/2~60M.P/46			
快速移动速度 Rapid traverse	纵向 Longitudinal	3740mm/min			
	横向 Cross	1870mm/min			
	中刀架 middle tool post	935mm/min			
尾座套筒 Tailstock sleeve	外径 External diameter	Φ160mm			
	内孔锥度 Taper of bore	公制Metric Φ80			
	最大行程 Max. traverse	300mm			
	主轴中心至刀具支承面的距离 Vertical distance from spindle center to installing basis	41mm	51mm		
中刀架最大回转角度 Swing angle of tool post		±90°			
中刀架最大行程 Max. travel of middle tool post		400mm			
上刀架最大行程 Max. travel of top slide		200mm			
横溜板最大移动距离 Max. travel of cross slide		720mm			
车刀刀杆最大尺寸(宽×高) Max. size of tool shank (W×H)	40×40mm	50×50mm			
主电动机功率 Power of main motor		22kW			
刀架快速移动电机功率 Rapid feed motor power		1.5 kW			
冷却泵功率 Coolant pump power		0.25 kW			
3米机床外形尺寸(长×宽×高) 3m machine overall dimensions (L×W×H)	6000×1860×1700mm	6000×1860×1825mm	6000×1860×1900mm		
3米机床净重 Net weight (3m)	11200kg	12000kg	12500kg		
选配 Optional	中心架 Steady rest	●	●	●	
	跟刀架 Follow rest	●	●	●	
	三防 Protection	卡盘防护 Chuck guard	○	○	○
		刀架防护 Tool post guard	○	○	○
丝杆防护 Leadscrew guard		○	○	○	

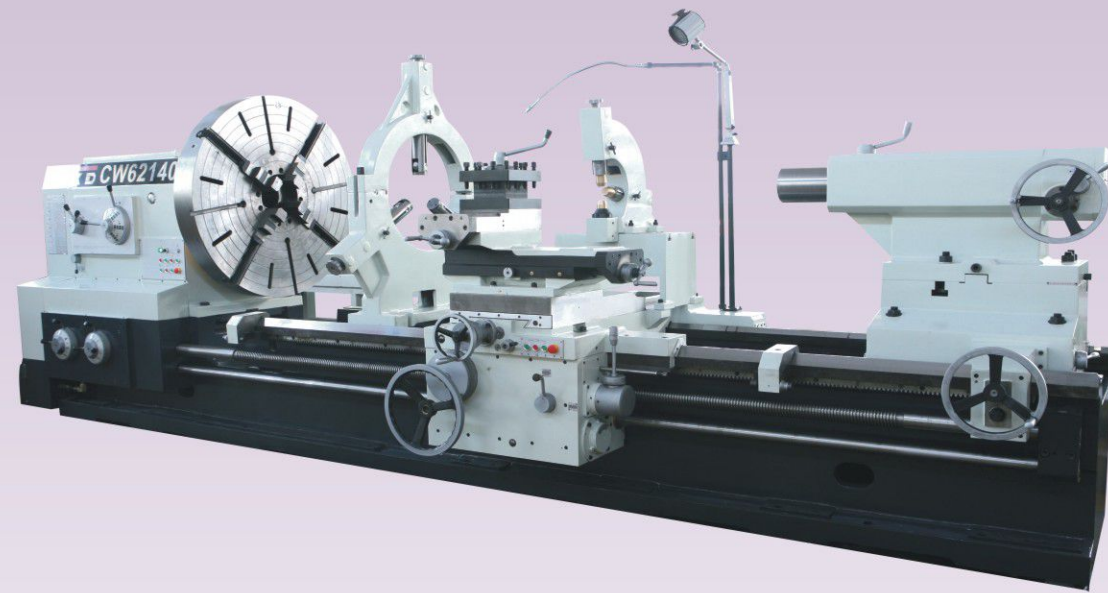
注：机床净重随长度每增加(或减少)1m，重量约增加(或减少)1100kg  
Note: For each additional machine length of 1m, there will be additional net weight of 1100kg.

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
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注：  
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○ 不可选配

# 大型卧式车床 LARGE ENGINE LATHE

**CW61140 CW62140**  
**CW61160 CW62160**



## 产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削，寿命长，噪音低。
  - ◆ 主轴系统刚性好，精度高。
  - ◆ 溜板箱带快进快退机构。
  - ◆ 床头箱用液压离合器机构，起动平稳，制动迅速。
- ◆ The surface of the bedways is supersonic frequency hardened and precision grinding, long life, low noise.
  - ◆ The spindle system is high in rigidity and accuracy.
  - ◆ Rapid feed structure is available on apron.
  - ◆ Clutch in headstock makes the lathe start smoothly and brake quickly.

## 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	CW61140/CW62140	CW61160/CW62160	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ1400mm	Φ1600mm	
	刀架上 Over carriage	Φ1060mm	Φ1260mm	
	马鞍槽内 (仅62系列) In gap (Only for 62 series)	Φ1930mm	Φ2110mm	
床身宽度	Width of bed	970mm		
最大工件长度	Max. length of workpiece	1.5/2/3/4/5/6/8/10/12m		
最大车削长度	Maximum turned length	1.3/1.8/2.8/3.8/4.8/5.8/7.8/9.8/11.8m		
马鞍槽有效长度	Effective length of gap	590mm		
两顶尖之间最大工件支撑重量 Max. Weight of work piece(between centers)		6000Kg		
主轴 Spindle	主轴头形式 Spindle nose	A <sub>2</sub> -15		
	通孔直径 Spindle bore	Φ130mm		
	锥孔直径和锥度 Taper bore	公制 Metric Φ140 1:20		
	转速级数 Number of speeds	24(正Normal)	12(反Reverse)	
	转速范围 Range of speeds	2.5~250r/min		
纵向丝杆螺距/直径 Pitch of longitudinal ball screw/diameter		12mm/Φ70mm		
纵、横向进给种数 Number of longitudinal and cross feeds		97		
主轴上每转刀架的进给范围 Feed range of tool post for per rev. of spindle	纵向 Longitudinal	0.1~12mm/r		
	横向 Cross	0.05~6mm/r		
	中刀架 Middle tool post	0.025~3mm/r		
切削螺纹 Thread cutting	公制 螺纹 Metric pitch threads	1~120mm/45		
	英制 螺纹 Whit-worth threads	30~1/4T.P./42		
	径节 螺纹 Module threads	1/2~60D.P/48		
	模数 螺纹 D.P. Threads	0.5~60M.P/46		
快速移动速度 Rapid traverse	纵向 Longitudinal	3740mm/min		
	横向 Cross	1870mm/min		
尾座套筒 Tailstock sleeve	外径 External diameter	Φ160mm		
	内孔锥度 Taper of bore	公制Metric Φ80		
	最大行程 Max. traverse	300mm		
主轴中心至刀具支承面的距离 Vertical distance from spindle center to installing basis		51mm		
中刀架最大移动距离 Travel of compound rest		400mm		
中刀架最大回转角度 Swing angle of tool post		±90°		
横溜板最大移动距离 Max. travel of cross slide		840mm	900mm	
车刀刀杆最大尺寸 (宽×高) Max. size of tool shank (W×H)		50×50mm		
主电动机功率 Power of main motor		22kW		
刀架快速移动电机功率 Rapid feed motor power		1.5 kW		
冷却泵功率 Coolant pump power		0.25W		
3米机床外形尺寸 (长×宽×高) 3m machine overall dimensions (L×W×H)		6100×2080×2130mm	6100×2130×2300mm	
3米机床净重 Net weight (3m)		14100kg	15100kg	
选配 Optional	中心架 Steady rest	●	●	
	跟刀架 Follow rest	●	●	
	三防 Protection	卡盘防护 Chuck guard	○	○
		刀架防护 Tool post guard		
丝杆防护 Leadscrew guard				

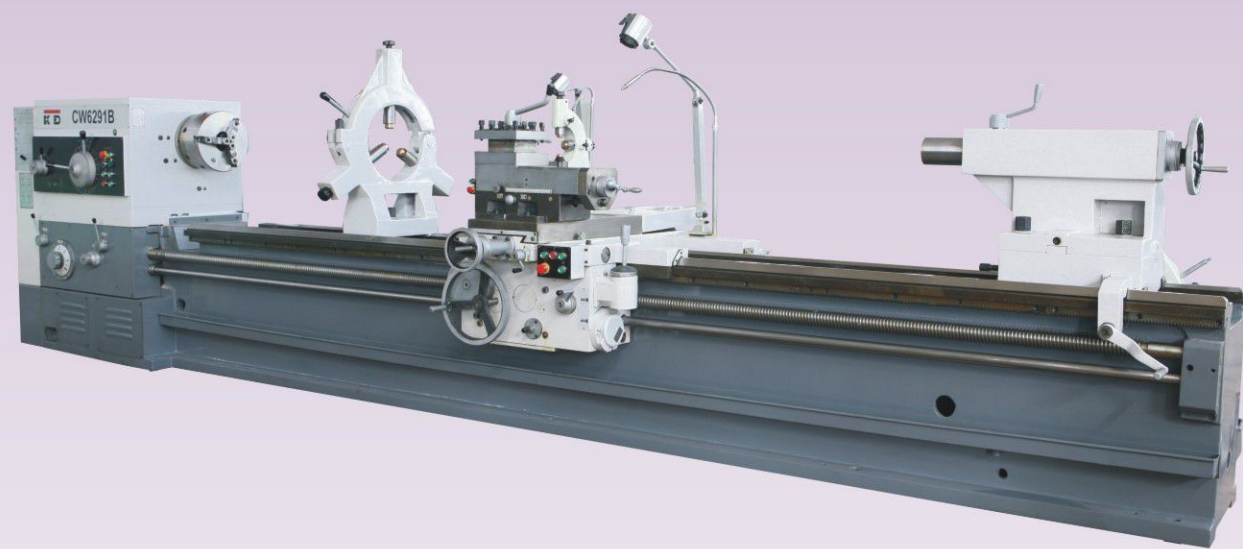
注：机床净重随长度每增加（或减少）1m，重量约增加（或减少）1300kg  
Note: For each additional machine length of 1m, there will be additional net weight of 1300kg.

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
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注：  
● 可选配  
○ 不可选配

# 大型卧式车床 LARGE ENGINE LATHE

## CW6291B CW62100B CW62110B



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削，寿命长，噪音低。
- ◆ 主轴系统刚性好，精度高。
- ◆ 溜板箱带快进快退机构。
- ◆ 床头箱用液压离合器机构，起动平稳，制动迅速。
  
- ◆ The surface of the bedways is supersonic frequency handened.
- ◆ The spindle system is high in rigidity and accuracy.
- ◆ Rapid feed structure is available on apron.
- ◆ Clutch in headstock makes the lathe start smoothly and brake quickly.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	CW6291B	CW62100B	CW62110B	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ910mm	Φ1000mm	Φ1100mm	
	刀架上 Over carriage	Φ580mm	Φ580mm	Φ680mm	
	马鞍槽内 In gap	Φ1100mm	Φ1200mm	Φ1300mm	
床身宽度	Width of bed	600mm			
最大工件长度	Max. length of workpiece	1500/2000/3000/4000/5000mm			
最大车削长度	Maximum turned length	1350/1850/2850/3850/4850mm			
马鞍槽有效长度	Effective length of gap	400mm			
两顶尖之间最大工件支撑重量 Max. Weight of work piece(between centers)		2000Kg			
主轴 Spindle	主轴头形式 Spindle nose	D11			
	通孔直径 Spindle bore	Φ105mm			
	锥孔直径和锥度 Taper bore	公制 Metric Φ120 1:20			
	转速级数 Number of speeds	18 Steps			
	转速范围 Range of speeds	5~720r/min	5~645r/min		
纵向丝杆螺距/直径 Pitch of longitudinal ball screw/diameter		12mm/Φ55mm			
纵向进给量种数 Number of longitudinal feeds		64			
纵向进给量范围	Range of longitudinal feeds (1:1)	0.1~1.52r/min			
	Range of longitudinal feeds (16:1)	1.6~24.3r/min			
横向进给量种数 Number of cross feeds		64			
横向进给量范围 Range of cross feeds		纵向进给量的0.5倍 half of longitudinal feeds			
切削螺纹 Thread cutting	公制 螺纹 Metric pitch threads	1~240mm/50			
	英制 螺纹 Whit-worth threads	14~1T.P./26			
	径节 螺纹 Module threads	28~1D.P/24			
	模数 螺纹 D.P. Threads	0.5~120M.P/53			
快速移动速度 Rapid traverse	纵向 Longitudinal	4000mm/min			
	横向 Cross	2000mm/min			
尾座套筒 Tailstock sleeve	外径 External diameter	Φ100mm			
	内孔锥度 Taper of bore	M.T.No.5			
	最大行程 Max. traverse	250mm			
主轴中心至刀具支承面的距离 Vertical distance from spindle center to installing basis		33mm			
小刀架最大移动距离 Max. travel of compound rest		200mm			
中刀架最大回转角度 Swing angle of tool post		±90°			
横溜板最大移动距离 Max. cross slide travel		500mm	570mm	620mm	
车刀刀杆最大尺寸(长×宽×高) Max. size of tool shank (L×W×H)		32×32mm			
主电动机功率 Power of main motor		11kW			
刀架快速移动电机功率 Rapid feed motor power		1.1 kW			
冷却泵功率 Coolant pump power		90W			
3米机床外形尺寸(长×宽×高) 3m machine overall dimensions (L×W×H)		5155×1450×1630mm	5155×1450×1685mm	5155×1450×1735mm	
3米机床净重 Net weight (3m)		7050kg	7550kg	8050kg	
选配 Optional	中心架 Steady rest	●			
	跟刀架 Follow rest	●			
	三防 Protection	卡盘防护 Chuck guard	○		
		刀架防护 Tool post guard	○		
丝杆防护 Leadscrew guard		○			

注：机床净重随长度每增加（或减少）1m，重量约增加（或减少）600kg  
Note: For each additional machine length of 1m, there will be additional net weight of 600kg.

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
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注：  
● 可选配  
○ 不可选配



# 普通卧式车床 ENGINE LATHE

## KDL770



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨经超声波淬火后精磨，寿命长。齿轮经精密磨削，整机噪音低。
  - ◆ 主轴通孔  $\Phi 105\text{mm}$ ，主轴系统刚性好，精度高。
  - ◆ 无需调换挂轮能车削公制、英制、模数、径节共177种螺纹，通过调换挂轮，还能车削多种螺纹。
  - ◆ 设有全长定程装置，安全可靠。
- 
- ◆ The surface of the bedways is supersonic frequency handened.
  - ◆ The spindle bore size is 105mm. The spindle system is high in rigidity and accuracy.
  - ◆ There is no need for change gear. The machine can turn about 177 kind of metric, Inch, Module, and D.P. threads.
  - ◆ An automatic stopping device is used to realize automatic stop for the machining of a workpiece of a certain length.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	KDL770	
最大回转直径 Max. swing diameter	床身上 Over bed	$\Phi 770\text{mm}$	
	刀架上 Over carriage	$\Phi 575\text{mm}$	
	马鞍槽内 Over gap	$\Phi 1050\text{mm}$	
床身宽度	Width of bed	405mm	
最大工件长度	Max. length of workpiece	3000mm	
最大车削长度	Maximum turned length	2950mm	
主轴 Spindle	主轴头形式 Spindle nose	D8	
	通孔直径 Spindle bore	$\Phi 105\text{mm}$	
	内孔锥度 Taper of bore	$\Phi 113\ 1:20$	
	转速级数 Number of speeds	24 Steps	
	转速范围 Range of speeds	6~1120r/min	
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	1 ~ 224 mm /46	
	英制 范围/种数 Inch range/No.	28 ~ 1/8 T.P.I/44	
	径节 范围/种数 D.P. Range/No.	56 ~ 1/4 D.P/45	
	模数 范围/种数 Module range/No.	0.5 ~ 112M.P/42	
进给量 Range of feeds	纵向 Longitudinal	0.063~2.52 mm/r	
	横向 Cross	0.027~1.07 mm/r	
尾座套筒 Tailstock sleeve	外径 External diameter	$\Phi 75\text{mm}$	
	内孔锥度 Taper of bore	M.T.No.5	
	最大行程 Max. traverse	150mm	
小刀架最大移动距离 Max. travel of compound rest		145	
横溜板最大移动距离 Max. cross slide travel		430mm	
车刀刀杆最大尺寸 (宽×高) Max. size of tool shank (W×H)		25×25mm	
主电动机功率 (双速) Power of main motor (double speeds)		7.5kW	
外形尺寸 (长×宽×高) Overall dimensions (L×W×H)		4500×1100×1540mm	
净重量 Net weight		4000kg	
选配 Optional	中心架 Steady rest	●	
	跟刀架 Follow rest	●	
	三防 Protection	卡盘防护 Chuck guard	●
		刀架防护 Tool post guard	
丝杆防护 Leadscrew guard			

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：  
● 可选配  
○ 不可选配

普通卧式车床  
ENGINE LATHE

C6236ZX C6240ZX  
C6246ZX C6250ZX



产品特点：PRODUCT FEATURES

- ◆ 床身导轨经超声波淬火后精磨，寿命长。齿轮经精密磨削，整机噪音低。
  - ◆ 主轴通孔Φ80mm，主轴系统刚性好，精度高。
  - ◆ 无需调换挂轮能车削公制、英制、模数、径节共150种螺纹，通过调换挂轮，还能车削多种螺纹。
  - ◆ 设有全长定程装置，安全可靠。
- ◆ The surface of the bedways is supersonic frequency hardened.
  - ◆ The spindle bore size is 80mm. The spindle system is high in rigidity and accuracy.
  - ◆ There is no need for change gear. The machine can turn about 150, kind of metric, Inch, Module, and D.P. threads.
  - ◆ An automatic stopping device is used to realize automatic stop for the machining of a workpiece of a certain length.

技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	C6236ZX		C6240ZX		C6246ZX		C6250ZX		
		1440ZX	1460ZX	1640ZX	1660ZX	1840ZX	1860ZX	1880ZX	2040ZX	2060ZX
最大回转直径 Max. swing diameter	床身上 Over bed	Φ360mm		Φ400mm		Φ460mm		Φ500mm		
	刀架上 Over carriage	Φ200mm		Φ250mm		Φ290mm		Φ330mm		
	马鞍槽内 In gap	Φ600mm		Φ660mm		Φ700mm		Φ740mm		
床身宽度 Width of bed		Φ336 mm								
最大工件长度 Max. length of workpiece		1000/1500mm		1000/1500mm		1000/1500/2000mm		1000/1500/2000mm		
最大车削长度 Maximum turned length		850/1350mm				850/1350/1850mm				
马鞍槽有效长度 Effective gap length (仅62系列)		200mm								
主轴 Spindle	主轴头形式 Spindle nose	D8								
	通孔直径 Spindle bore	Φ80mm								
	内孔锥度 Taper of bore	M.T.NO.7								
	转速级数 Number of speeds	12 Steps								
	转速范围 Range of speeds	42~1800r/min		42~1800r/min or 25~1800r/min			25~1800r/min			
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	0.5~20mm/24								
	英制 范围/种数 Inch range/No.	72~1/T.P./61								
	径节螺纹 Module threads	96~3/D.P./45								
	模数 范围/种数 Module range/No.	0.25~10 M.P./20								
进给量 Range of feeds	纵向 Longitudinal	0.04~2.46mm/r								
	横向 Cross	0.02~1.23mm/r								
尾座套筒 Tailstock sleeve	外径 External diameter	Φ75mm								
	内孔锥度 Taper of bore	M.T.NO.4				M.T.NO.5				
	最大行程 Max. traverse	130mm								
小刀架最大移动距离 Max. travel of compound rest	130mm									
横溜板最大移动距离 Max. cross slide travel	280mm						310mm			
车刀刀杆最大尺寸(宽×高) Max. size of tool shank (W×H)	25×25mm									
主电动机功率 Power of main motor	5.5kW									
外形尺寸(长×宽×高) Overall dimensions (L×W×H)	2310/2810×1050×1310mm		2310/2810×1050×1340mm		2310/2810/3320×1050×1370mm		2310/2810/3320×1050×1390mm			
净重量 Net weight	2250/2550kg		2300/2600kg		2350/2650/2900kg		2750/3000/3250kg			
选配 Optional	中心架 Steady rest	●								
	跟刀架 Follow rest	●								
	三防 Protection	卡盘防护 Chuck guard	●							
		刀架防护 Tool post guard	●							
丝杆防护 Leadscrew guard		●								

注：以上参数可以按客户的需求进行更改设计。  
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以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可选配  
○ 不可选配

# 浙江凯达机床股份有限公司

## Zhejiang Kaida Machine Tool Co., Ltd

普通卧式车床/大型卧式车床  
Engine Lathe/Large Engine Lathe



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# CONTENT

## 目录

1	选配配置介绍 Introduction of optional configuration	2
2	结构介绍 Introduction of machine construction	3
3	普通卧式车床 Engine Lathe	5
	◆ C6136 C6236 C6140 C6240	5
	◆ C6136ZK/C6236ZK C6140ZK/C6240ZK C6146ZK/C6246ZK	7
	◆ C6236ZX C6240ZX C6246ZX C6250ZX	9
	◆ CDL400 CDL510 CDL660	11
	◆ C6140W	13
	◆ C6250A	15
	◆ C6250B C6266B	17
	◆ C6256C C6266C C6277C	19
	◆ KDL770	21
4	大型卧式车床 Large Engine Lathe	23
	◆ CW6163A/CW6263A CW6180A/CW6280A	23
	◆ CW6291B CW62100B CW62110B	25
	◆ CW61100C/CW62100C CW61125C/CW62125C CW61140C/CW62140C	27
	◆ Cw61140/CW62140 CW61160/CW62160	29

## 选配配置介绍

Introduction of optional configuration

### ◆ 中心架和跟刀架 Steady rest and following rest

为保证轴类长工件的加工可选配中心架和跟刀架。

In order to ensure the processing of long workpiece, steady rest and following rest can installed on machines.



中心架  
Steady rest



跟刀架  
Following rest

### ◆ 三防 (卡盘防护、刀架防护、丝杆防护)

Protection (chuck guard, tool post guard, leadscrew guard)

Z向行程超4m的机床不选配。

But for machines with Z-direction travel over 4m can't match leadscrew guard.



卡盘防护  
Chuck guard



刀架防护  
Tool post guard



丝杆防护  
Leadscrew guard

# 结构介绍

Introduction of machine construction



卡盘防护 Chuck guard



中心架 Steady rest



刀架防护 Tool post guard



刀架 Turret

刀座采用单向齿爪带动提销凸轮进行调刀, 由丝杆旋转推动螺母移动来实现刀架的移动。

The tool holder adopts the one-way tooth claw to drive the lifting cam to adjust the tool, and the nut is moved by the screw rotation to move the tool holder.



床头箱 Headstock box

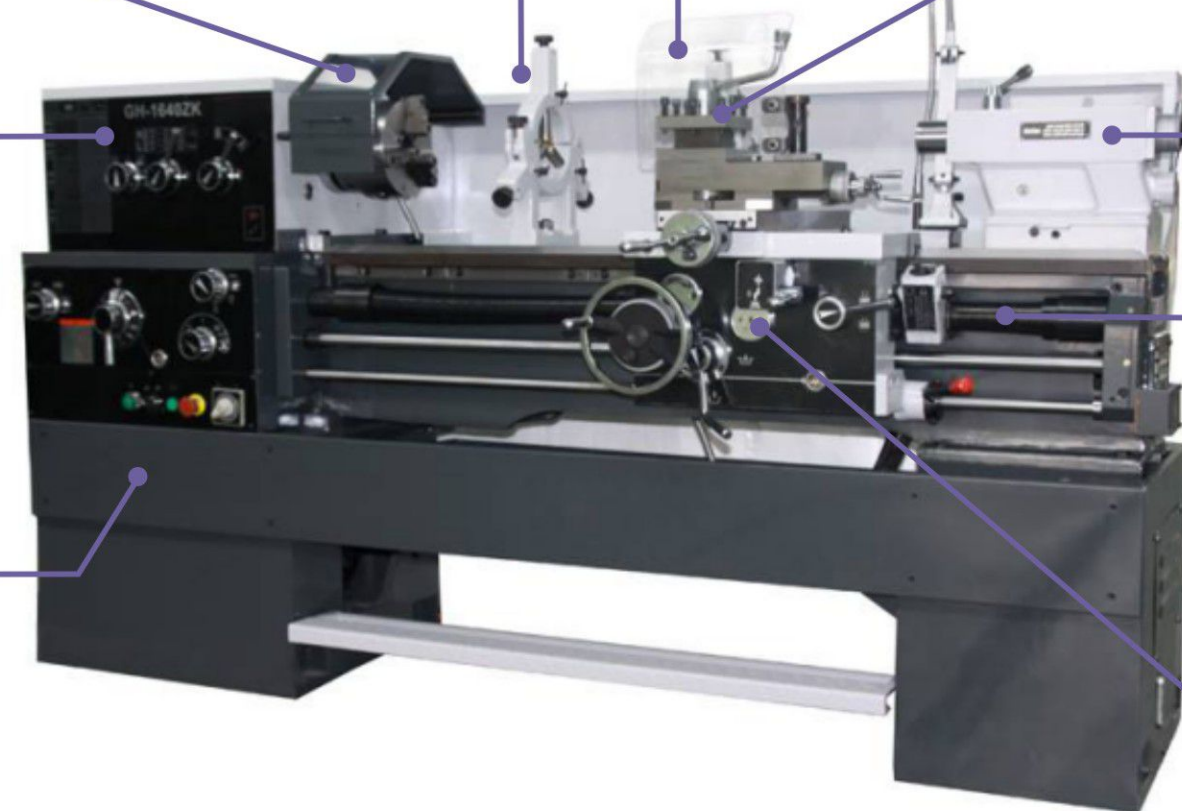
床头箱齿轮经淬硬和精密磨削, 噪音低、寿命长。  
Headstock box gears are hardened and precision grinding, with low noise, long life.



基础铸件 Base castings

床身、床头箱、溜板箱等均采用高强度优质铸铁, 树脂砂生产铸造, 经多次时效处理, 保证了机床具有良好的稳定性、刚度结构和精度保持性。

High-strength and high-quality cast iron are used on bed stand, headstock box, apron box, resin sand production casting, also after repeated treatment, to ensure that the machine has a good stability, stiffness structure and precision retention.



## 机床的用途和特性

The use and characteristics of machine

普通车床的使用十分广泛, 适用于机械、汽车、仪器、仪表行业的生产车间和工具维修车间的半精加工及精加工。能够车削各类零件的外圆、内孔、端面、锥面及公制、英制、模数、径节螺纹, 还可以承担切割、钻孔、铰孔、套料、扩孔、滚花、拉油槽等工艺, 机床结构紧凑操作灵活、维修方便、使用可靠。

The use of ordinary lathe is very wide, suitable for machinery, automotive, instrumentation industry, used in production workshops and tool maintenance workshops, semi-finishing and finishing and so on. It can cut all kinds of parts of cylindrical, bore, end, cone and metric, inch, modulus, diameter threads, but also can cut, drill, ream, nest, ream, knurle, and other technologies. Machines with compact and flexible operation, easy maintenance, use reliably.



手动尾架 Manual tailstock



丝杆防护 Leadscrew guard



溜板箱 Apron box

进给运动是由光杆传入溜板箱后, 通过安全离合器传递蜗杆, 经过传动齿轮实现刀架纵向移动。

Feeding movement is introduced into the apron box by the feed rod, through the safety clutch transmission worm, through the transmission gear to achieve vertical and horizontal movement of the tools.

# 普通卧式车床 ENGINE LATHE

## C6136 C6236 C6140 C6240



### 产品特点：PRODUCT FEATURES

- ◆ 床身导轨和床头箱齿轮经淬硬和精密磨削。
  - ◆ 主轴系统刚性好，精度高。
  - ◆ 机床传动链短，齿轮传动精度高，整机运行平衡，噪音低。
- 
- ◆ The guideways and all gears in the headstock are hardened and precision ground.
  - ◆ The spindle system is high in rigidity and accuracy.
  - ◆ The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.

### 技术参数：TECHNICAL SPECIFICATIONS

参数 Item	型号 Model	C6136/C6236	C6140/C6240	
最大回转直径 Max. swing diameter	床身上 Over bed	Φ360mm ( 14" )	Φ410mm ( 16" )	
	刀架上 Over carriage	Φ195mm ( 7.6" )	Φ255mm ( 10" )	
	马鞍槽内 ( 仅62系列 ) In gap ( Only for 62 series )	Φ530mm ( 20.8" )	Φ570mm ( 22.4" )	
床身宽度 Width of bed		312mm		
最大工件长度 Max. length of workpiece		500/750/1000mm ( 20"; 30"; 40" )	750/1000/1500mm ( 30"; 40"; 60" )	
最大车削长度 Maximum turned length		450/700/950mm		
马鞍槽有效长度 Effective gap length (仅62系列)		200mm ( 7.8" )		
主轴 Spindle	主轴头形式 Spindle nose	C5 or C6	C6	
	通孔直径 Spindle bore	Φ40mm ( 1.57" ) or Φ52mm ( 2" )	Φ52mm ( 2" )	
	内孔锥度 Taper of bore	M.T.No.5 or M.T.No.6	M.T.No.6	
	转速级数 Number of speeds	12 Steps		
	转速范围 Range of speeds	40~1800r/min	40~1800r/min 28~1600r/min	
切削螺纹 Thread cutting	公制 范围/种数 Metric range/No.	0.75~9mm/17		
	英制 范围/种数 Inch range/No.	2~32T.P.I./29		
	模数 范围/种数 Module range/No.	0.5~4.5M.P/13		
进给量 Range of feeds	纵向 Longitudinal	0.07~1.67mm ( 0.00275"~0.0657" )		
	横向 Cross	0.04~0.98mm ( 0.00157"~0.0386" )		
尾座套筒 Tailstock sleeve	外径 External diameter	Φ60mm ( 2.36" )		
	内孔锥度 Taper of bore	M.T.No.4		
	最大行程 Max. traverse	120mm ( 4.7" )		
小刀架最大移动距离 Max. travel of compound rest		100mm ( 3.9" )		
横溜板最大移动距离 Max. cross slide travel		210mm ( 8" )	240mm ( 9" )	
车刀刀杆最大尺寸 ( 宽×高 ) Max. size of tool shank ( W×H )		20×20mm ( 0.78"×0.78" )		
主电动机功率 ( 双速 ) Power of main motor ( double speeds )		3/4kW	4/5.5kW	
外形尺寸 ( 长×宽×高 ) Overall dimensions ( L×W×H )		1800/2050/2300×1100×1200mm		
净重量 Net weight		1600/1680/1840kg 1680/1760/1920kg	1650/1730/1890kg 1730/1810/1970kg	
选配 Optional	中心架 Steady rest	●	●	
	跟刀架 Follow rest	●	●	
	三防 Protection	卡盘防护 Chuck guard	●	●
		刀架防护 Tool post guard		
丝杆防护 Leadscrew guard				

注：以上参数可以按客户的需求进行更改设计。  
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注：  
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○ 不可选配

# 经济型数控车床 (线轨) CK6130L CK6140L CK6150L ECONOMICAL CNC LATHE(LINEAR GUIDE WAYS)



## 产品特点: PRODUCT FEATURES

主轴系统采用高精度的轴承, 实现高精度和高承载能力。主传动采用进口变频调速器, 实现无级调速功能。床座采用连体铸造, 高刚性设计, 连体床座变形与振动影响小。X向和Z向导轨均采用进口直线滚珠导轨, 减少机床磨损, 预加负荷减少导轨间隙, 提高加工精度。X轴和Z轴均采用伺服电机, 通过大螺距滚珠丝杠实现其快速进给。该机床主电机功率大, 刚性好, 精度储备量大, 寿命长, 是加工各种材料 (特别是有色金属件) 的精密复杂零件及大批量自动化生产的理想设备。

High precision bearings are adopted for the spindle system to realize high accuracy and load capacity. The machine main drive adopts imported inverter variable speed motor to realize infinitely variable speed. The machine stand adopts integrated casting with machine bed designed for high rigidity and less deformation and vibration. Both X and Z axis rails are imported linear ball guide rails to reduce abrasion. They are pre-loaded to reduce rail clearance to improve machining accuracy. Both X and Z axes adopt servo motors. Rapid feed is realized through a big pitch ball screw. This machine has big main motor power, good rigidity, sufficient accurate storage and long service life. This is an ideal machine for complicated parts machining of various materials, especially of non-ferrous metals, in mass automatic production.

## 技术参数: TECHNICAL SPECIFICATIONS

项目 ITEMS		CK6130L	CK6140L	CK6150L
加工 Machining	最大盘类切削直径 Max. cutting dia. for disc parts	Φ300mm	Φ400mm	Φ500mm
	最大轴类切削直径 Max. cutting dia. for axle parts	Φ100 (排刀Gang tools) mm	Φ230/Φ150 (排刀Gang tools) mm	Φ200mm
	最大车削长度 Max. length of turning	300mm	300mm	750mm
	六工位刀架最大车削长度 6-way turret Max. turning length		230mm	650mm
	六工位刀架最大车削直径 6-way turret Max. turning diameter		Φ250mm	Φ340mm
主轴 Principal axis	主轴头形式 Spindle nose	A <sub>2</sub> -4	A <sub>2</sub> -5	A <sub>2</sub> -8
	主轴通孔直径 Spindle bore	Φ38mm	Φ52mm	Φ80mm
	主轴孔锥度 Taper of spindle hole	MT NO.5	MT NO.6	MT NO.7
	转速级数 Steps of spindle speed	无级 Stepless	无级 Stepless	无级 Stepless
进给 Feed	主轴转速 Spindle speed	3500rpm	3000rpm	3000rpm
	横向快速移动速度 (X) Rapid feed for Axis X	16m/min	16m/min	16m/min
行程 Travel	纵向快速移动速度 (Z) Rapid feed for Axis Z	20m/min	20m/min	20m/min
	纵向最大行程 (Z) Max. travel of Axis Z	270mm	215 (310排刀Gang tools) mm	320mm
刀架 Tool post	刀架工位数 Tool post stations	排刀 Gang tools	4工位 (或排刀Gang tools) 4-Stations	4工位 4-Stations
	刀杆截面尺寸 Size of tool shank	16 × 16mm	20 × 20mm	25 × 25mm
	圆孔刀座尺寸 Round hole cutter holder size	Φ20mm	Φ25mm	Φ32mm
其它 Other	最小输入单位 Min. input	0.001mm	0.001mm	0.001mm
	主电机功率 Power of main motor	3.7 KW	3.7 KW (选配Optional 5.5 KW)	7.5 (选配Optional 11) KW
	冷却泵电机功率 Coolant pump power	75 W	75 W	75 W
	机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L × W × H)	1700 × 1200 × 1450 mm	1700 × 1620 × 1600 mm	2250 × 1400 × 1570 mm
机床净重 Net weight	1500kg	1700kg	2700kg	
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	○	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	●	●	●
	尾架 Tailstock	○	○	●
	中心架 Steady rest	○	○	○

注: ● 可  
选配  
○ 不可  
选配

注: 以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考, 随产品发展的需要会进行设计更改, 更改后恕不另行通知。

# 经济型数控车床（硬轨） CK6130S CK6136S CK6140S ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



## 产品特点：PRODUCT FEATURES

- ◆ 车床纵横向走刀用伺服电机驱动，精密滚珠丝杠传动。
  - ◆ 刀架有四工位，六工位，立式、卧式供选用，采用精密端齿盘定位，也可选用排刀，重复定位精度高。
  - ◆ 卡盘和尾座有手动、液压和气动供选择。
- 
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station or 6-station tool post as well as gang tool can be selected. The post is located on precision contrite gears with a high repeated positioning accuracy.
  - ◆ Both chuck and tailstock are available with hydraulic or manual or pneumatic type.

## 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6130S	CK6136S	CK6140S
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ300mm ( 12" )	Φ360mm ( 14" )	Φ400mm ( 15.7" )
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ135/Φ100 ( 排刀型Gang tools ) mm	Φ180/Φ135 ( 排刀型Gang tools ) mm	Φ225/Φ195 ( 排刀型Gang tools ) mm
	最大工件长度 Max. workpiece length	500mm	500/750/1000mm	500/750/1000mm
	最大车削长度 Max. turning length	390 mm	450/700/950mm	450/700/950mm
	六工位刀架最大车削长度 6-way turret Max. turning length	340mm	340/590/840mm	
	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ185mm	Φ255mm	Φ300mm
主轴 Principal axis	主轴头形式 Spindle nose	D4 or A <sub>2</sub> -5	C5	C6
	主轴通孔直径 Spindle bore	Φ38 or Φ43 mm	Φ40 mm	Φ52 mm
	主轴孔锥度 Taper of spindle hole	MT.No.5 or 40° 锥度Taper	MT.No.5	MT.No.6
	转速级数 Steps of spindle speed	无级 Stepless		
	转速范围 Range of spindle speed	200~3500rpm	200~2800rpm	
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min		
	横向快速移动速度 Rapid feed for Axis X	8m/min		
行程 Travel	纵向最大行程 Max. travel of Axis Z	460mm(18" )	490/740/990mm	
	横向最大行程 Max. travel of Axis X	165/260 ( 排刀型Gang tools ) mm	215/295 ( 排刀型Gang tools ) mm	235/295 ( 排刀型Gang tools ) mm
刀架 Tool post	刀架工位数 Tool post stations	电动刀架或排刀架 Gang tool post or power tool post	四工位，六工位或排刀 4-Stations or 6-Stations or Gang tools	
	车刀刀杆截面尺寸 Tool cross section	16 × 16mm	20 × 20mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ50mm	Φ60mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.3	MT.No.4	
	尾架套筒最大行程 Max. travel of tailstock sleeve	130mm	120mm	120mm
其它 Other	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	3KW	3.7KW	3.7KW ( 选配Optional5.5 KW )
	冷却泵电机功率 Power of cooling pump	75W		
	机床外形尺寸 (长×宽×高) Overall dimensions(L × W × H)	1500 × 945 × 1380mm	( 1870/2120/2370 ) × 1200 × 1415mm	
	机床净重 Net weight	1100kg	1500/1700/1900kg	1600/1800/2000kg
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	中心架 Steady rest	●	●	●

注：  
● 可选配  
○ 不可选配

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以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。



## 经济型数控车床（硬轨） CK6140N CK6150N CK6150NS ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动，精密滚动丝杠传动。
  - ◆ 刀架有四工位，六工位，立式或卧式供选用、采用精密端齿盘定位，也可选用排刀、重复定位精度高。
  - ◆ 卡盘和尾座有液压、手动供选择。
  - ◆ 床身导轨经超音频淬火后精磨，寿命长，精度高。
  - ◆ 主轴系统刚好。
- 
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station tool 6-station tool post or gang tools can be selected. The post is located on precision contridge gears with a high repeated positioning accuracy.
  - ◆ Both chuck and tailstock are available with hydraulic or manual type.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.
  - ◆ The spindle system is high in the rigidity and accuracy.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6140N	CK6150N	CK6150NS	
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ440mm	Φ500mm	Φ500mm	
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ210mm	Φ295mm	Φ295mm	
	床身宽度 Width of bed	405mm	405mm	405mm	
	最大工件长度 Max. workpiece length	1000mm	1000/1500mm	1000/1500mm	
	最大车削长度 Max. turning length	850mm	850mm	850mm	
	六工位刀架最大车削长度 6-way turret Max. turning length	800mm	800/1300mm	800/1300mm	
主轴 Principal axis	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ280mm	Φ340mm	Φ340mm	
	主轴头形式 Spindle nose	A <sub>2</sub> -6	D8	D8	
	主轴通孔直径 Spindle bore	Φ56mm	Φ80mm	Φ80mm	
	主轴孔锥度 Taper of spindle hole	MT.No6	MT.No7	MT.No7	
	转速级数 Steps of spindle speed	无级 Stepless	2档(ranges(档内无级stepless in each))	无级 Stepless	
	转速范围 Range of spindle speed	2800rpm	2000rpm	2000rpm	
	进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min	10m/min	10m/min
		横向快速移动速度 Rapid feed for Axis X	8m/min	8m/min	8m/min
	行程 Travel	纵向最大行程 Max. travel of Axis Z	880mm	900/1400mm	900/1400mm
		横向最大行程 Max. travel of Axis X	290mm	310mm	310mm
刀架 Tool post	刀架工位数 Tool post stations	4工位 4-Stations	4工位 4-Stations	4工位 4-Stations	
	车刀刀杆截面尺寸 Tool cross section	25 × 25 mm	32 × 32 mm	32 × 32 mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ75mm	Φ75mm	Φ75mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No5	MT.No5	MT.No5	
	尾架套筒最大行程 Max. travel of tailstock sleeve	150mm	150mm	150mm	
其它 Other	最小输入单位 Min. input	0.001mm			
	主电机功率 Power of main motor	5.5kw	7.5kw	7.5kw	
	冷却泵电机功率 Power of cooling pump	90W			
	机床外形尺寸(长×宽×高) Overall dimensions(L×W×H)	2630 × 1400 × 1550mm	2530/3030 × 1400 × 1600mm		
	机床净重 Net weight	2700kg	2850/3050 kg		
选配 Optional	系统 CNC system	●	●	●	
	刀架 Tool post	●	●	●	
	卡盘 Chuck	●	●	●	
	主轴 Spindle	○	○	○	
	尾架 Tailstock	●	●	●	
	中心架 Steady rest	●	●	●	

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

注：● 可选配  
○ 不可选配

## 经济型数控车床（硬轨）CK6140ZX CK6146ZX CK6150ZX ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动，精密滚珠丝杠传动。
  - ◆ 刀架有四工位、六工位、立式、卧式供选用。采用精密端齿盘定位，也可选用排刀，重复定位精度高。
  - ◆ 卡盘和尾座有液压、手动供选择。
  - ◆ 床身导轨经超音频淬火后精磨，寿命长，精度高。
  - ◆ 主轴通孔 $\Phi 80\text{mm}$ ，主轴系统刚性好。
- 
- ◆ Longitudinal and cross feeds are effected by ball leadscrews. driven by servo motors.
  - ◆ Either vertical or horizontal 4-station or 6-station tool post or gang tools can be selected. The post is located on precision contrue gears with a high repeated positioning accuracy.
  - ◆ Both chuck and tailstock are available with hydraulic or manual type.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.
  - ◆ The spindle bore size is 80mm. The spindle system is high in the rigidity and accuracy.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6140ZX	CK6146ZX	CK6150ZX
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	$\Phi 400\text{mm}$	$\Phi 460\text{mm}$	$\Phi 500\text{mm}$
	轴类最大切削直径 Max. cutting dia. for axle parts	$\Phi 210/\Phi 165$ (排刀型Gang tools) mm	$\Phi 240/\Phi 205$ (排刀型Gang tools) mm	$\Phi 280/\Phi 245$ (排刀型Gang tools) mm
	最大工件长度 Max. workpiece length	750/1000/1500mm		
	最大车削长度 Max. turning length	600/850/1350mm		
	六工位刀架最大车削长度 6-way turret Max. turning length	430/680/1180mm		
	六工位刀架最大车削直径 6-way turret Max. turning diameter	$\Phi 280\text{mm}$	$\Phi 340\text{mm}$	$\Phi 340\text{mm}$
主轴 Principal axis	主轴头形式 Spindle nose	D8		
	主轴通孔直径 Spindle bore	$\Phi 80\text{mm}$		
	主轴孔锥度 Taper of spindle hole	MT.No.7		
	转速级数 Steps of spindle speed	无级 Stepless		
	转速范围 Range of spindle speed	100~2000rpm		
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min		
	横向快速移动速度 Rapid feed for Axis X	8m/min		
行程 Travel	纵向最大行程 Max. travel of Axis Z	710/960/1460mm		
	横向最大行程 Max. travel of Axis X	250/320 (排刀型Gang tools) mm	280/320 (排刀型Gang tools) mm	
刀架 Tool post	刀架工位数 Tool post stations	四工位，六工位或排刀 4-Stations or 6-Stations or Gang tools		
	车刀刀杆截面尺寸 Tool cross section	25 x 25 mm		
尾架 Tailstock	尾架套筒外径 External diameter	$\Phi 75\text{mm}$		
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	MT.No.5	
	尾架套筒最大行程 Max. travel of tailstock sleeve	130mm		
其它 Other	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	5.5KW (选配Optional 7.5 KW)		
	冷却泵电机功率 Power of cooling pump	75W		
	机床外形尺寸(长×宽×高) Overall dimensions(L×W×H)	2060/2300/2790 x 1180 x 1500mm		
机床净重 Net weight	2100/2250/2800kg	2200/2350/2900kg		
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	中心架 Steady rest	●	●	●

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床 (硬轨) CK6156B ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点: PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动, 精密滚动丝杠传动。
  - ◆ 刀架有四工位, 六工位, 立式或卧式供选用、采用精密端齿盘定位, 也可选用排刀、重复定位精度高。
  - ◆ 卡盘和尾座有液压、手动供选择。
  - ◆ 床身导轨经超音频淬火后精磨, 寿命长, 精度高。
  - ◆ 主轴通孔  $\Phi 80\text{mm}$ 。主轴系统刚性好。
  - ◆ 主轴转速分高、低速二个区域 (无极), 可编程控制。
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station tool post or gang tools can be selected. The post is located on precision conrtrite gears with a high repeated positioning accuracy.
  - ◆ Both chuck and tailstock are available with hydraulic or manual type.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.
  - ◆ The spindle bore size is 80mm. The spindle system is high in the rigidity and accuracy.
  - ◆ Variable spindle speed can be programmed as two ranges, that is high one and low one.

### 技术参数: TECHNICAL SPECIFICATIONS

项目 ITEMS		CK6156B		
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	$\Phi 560\text{mm}$		
	轴类最大切削直径 Max. cutting dia. for axle parts	$\Phi 330\text{mm}$		
	床身宽度 Width of bed	405mm		
	最大工件长度 Max. workpiece length	750/1000/1500/2000/3000mm		
	最大车削长度 Max. turning length	650/900/1400/1900/2900mm		
	六工位刀架最大车削长度 6-way turret Max. turning length	490/740/1240/1740/2740mm		
	六工位刀架最大车削直径 6-way turret Max. turning diameter	$\Phi 390\text{mm}$		
主轴 Principal axis	主轴头形式 Spindle nose	A <sub>2</sub> -8		
	主轴通孔直径 Spindle bore	$\Phi 80\text{mm}$		
	主轴孔锥度 Taper of spindle hole	MT.No.7		
	转速级数 Steps of spindle speed	2档ranges (档内无级stepless in each)		
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min		
	横向快速移动速度 Rapid feed for Axis X	8m/min		
行程 Travel	纵向最大行程 Max. travel of Axis Z	650/900/1400/1900/2900mm		
	横向最大行程 Max. travel of Axis X	320mm		
刀架 Tool post	刀架工位数 Tool post stations	四工位, 六工位 4-Stations or 6-Stations		
	车刀刀杆截面尺寸 Tool cross section	32 x 32mm		
尾架 Tailstock	尾架套筒外径 External diameter	$\Phi 75\text{mm}$		
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.5		
	尾架套筒最大行程 Max. travel of tailstock sleeve	150mm		
其它 Other	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	7.5KW		
	冷却泵电机功率 Power of cooling pump	90W		
	机床外形尺寸 (长 x 宽 x 高) Overall dimensions(L x W x H)	2250/2500/3000/3500/4500 x 1200 x 1550mm		
	机床净重 Net weight	2800/3100/3600/4100/4700kg		
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	中心架 Steady rest	●	●	●

注: 以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考, 随产品发展的需要会进行设计更改, 更改后恕不另行通知。

注: ● 可选配  
○ 不可选配

## 经济型数控车床（硬轨） CK6163A CK6180A ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵横走刀用伺服电机驱动，精密滚动丝杠传动。
  - ◆ 床身导轨经超音频淬火后精磨，寿命长，精度高。
  - ◆ 主轴系统刚性好。
- 
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.
  - ◆ The spindle system is high in rigidity and accuracy.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6163A	CK6180A
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ630mm	Φ800mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ360mm	Φ500mm
	床身宽度 Width of bed	560mm	
	最大工件长度 Max. workpiece length	1000/1500/2000/3000/4000mm	
	最大车削长度 Max. turning length	900/1400/1850/2850/3850 mm	
主轴 Principal axis	主轴头形式 Spindle nose	D11	
	主轴通孔直径 Spindle bore	Φ104 mm	
	主轴孔锥度 Taper of spindle hole	公制Metric 1:20	
	转速级数 Steps of spindle speed	4档ranges ( 档内无级stepless in each )	
进给 Feed	转速范围 Range of spindle speed	40~105、80~205、195~500、385~1000rpm	
	纵向快速移动速度 Rapid feed for Axis Z	10m/min	
行程 Travel	横向快速移动速度 Rapid feed for Axis X	8m/min	
	纵向最大行程 Max. travel of Axis Z	1000/1500/2000/3000/4000mm	
刀架 Tool post	横向最大行程 Max. travel of Axis X	440mm	500mm
	刀架工位数 Tool post stations	四工位 4-Stations	
尾架 Tailstock	车刀刀杆截面尺寸 Tool cross section	40 × 40mm	
	尾架套筒外径 External diameter	Φ100mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.6	
其它 Other	尾架套筒最大行程 Max. travel of tailstock sleeve	230mm	
	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	11KW	
	冷却泵电机功率 Power of cooling pump	370W	
选配 Optional	机床外形尺寸 (长×宽×高) Overall dimensions(L × W × H)	(3200/3700/4200/5200) × 1660 × 1820mm	
	机床净重 Net weight	3480/3780/4280/4780kg	
	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	中心架 Steady rest	●	●

注：● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床（硬轨） CK6156 CK6166 ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 通过CNC控制电磁离合器实现自动换挡，结构简单、使用方便、灵活性好。
- ◆ 主轴系统刚性好、精度高。
- ◆ 车床纵向伺服电机驱动，精密滚珠丝杆传动。
  
- ◆ Automatic gear change can be realized by CNC controlled Electro-magnetic clutch of the machine. This mechanism is simple in construction, easy for operation with good flexibility.
- ◆ The spindle system is high in rigidity and accuracy.
- ◆ Longitudinal and cross feeds are effected by ball leadscrews.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6156	CK6166
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ560mm	Φ660mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ330mm	Φ430mm
	床身宽度 Width of bed	405mm	
	最大工件长度 Max. workpiece length	750/1000/1500/2000/3000mm	
	最大车削长度 Max. turning length	650/900/1400/1900/2900mm	
	六工位刀架最大车削长度 6-way turret Max. turning length	585/735/1235/1735/2735mm	
主轴 Principal axis	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ420mm	Φ520mm
	主轴头形式 Spindle nose	A <sub>2</sub> -8	D8
	主轴通孔直径 Spindle bore	Φ80 mm	Φ105 mm
	主轴孔锥度 Taper of spindle hole	MT.No.7	公制Metric Φ113 1:20
	转速级数 Steps of spindle speed	4档ranges (档内无级stepless in each)	
	转速范围 Range of spindle speed	27~135、55~270、160~805、325~1630rpm	
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min	
	横向快速移动速度 Rapid feed for Axis X	8m/min	
行程 Travel	纵向最大行程 Max. travel of Axis Z	720/970/1470/1970/2970mm	
	横向最大行程 Max. travel of Axis X	320mm	365mm
刀架 Tool post	刀架工位数 Tool post stations	四工位，六工位 4-Stations or 6-Stations	
	车刀刀杆截面尺寸 Tool cross section	32 × 32mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ75mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.5	
	尾架套筒最大行程 Max. travel of tailstock sleeve	150mm	
其它 Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	7.5KW	11KW
	冷却泵电机功率 Power of cooling pump	90W	
	机床外形尺寸（长×宽×高） Overall dimensions(L×W×H)	2250/2500/3000/3500/4500 × 1200 × 1520mm	2250/2500/3000/3500/4500 × 1250 × 1580mm
机床净重 Net weight	2700/3000/3600/4100/4700kg	2800/3100/3700/4300/5300kg	
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	中心架 Steady rest	●	●

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

注：● 可选配  
○ 不可选配

## 经济型数控车床（硬轨） CK61100CE CK61125CE CK61140CE ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵横由伺服电机驱动，精密滚珠丝杠传动。
  - ◆ 主轴通孔  $\Phi 130$ ，主轴端部为短锥面定位，定心精度高，刚性好。
  - ◆ 床头箱采用内循环强制润滑，发热量小，热变形小。
  - ◆ 床身导轨经超音频淬火后精度，寿命长，精度高。
- 
- ◆ Longitudinal and cross feeds are effected by servo motors driven by ball screws.
  - ◆  $\Phi 130\text{mm}$  spindle bore, short taper positioning spindle nose for high precision and rigidity.
  - ◆ Centralized lubrication system in headstock for less heating and heat distortion.
  - ◆ Supersonic frequency hardened guide ways ensure high precision and long service life.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK61100CE	CK61125CE	CK61140CE
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	$\Phi 1000\text{mm}$	$\Phi 1250\text{mm}$	$\Phi 1400\text{mm}$
	轴类最大切削直径 Max. cutting dia. for axle parts	$\Phi 620\text{mm}$	$\Phi 815\text{mm}$	$\Phi 990\text{mm}$
	床身宽度 Width of bed	755mm		
	最大工件长度 Max. workpiece length	1.5/2/3/4/5/6/8/10m		
	最大车削长度 Max. turning length	1.3/1.8/2.8/3.8/4.8/5.8/7.8/9.8m		
	两顶尖之间最大工件支撑重量 Max. weight between centers	5000kg		
主轴 Principal axis	主轴头形式 Spindle nose	A <sub>2</sub> -15		
	主轴通孔直径 Spindle bore	$\Phi 130\text{mm}$		
	主轴孔锥度 Taper of spindle hole	公制Metric $\Phi 140\ 1:20$		
	转速级数 Steps of spindle speed	手动2档（档内无级） 2 steps (stepless in each)		
进给 Feed	转速范围 Range of spindle speed	2.5~34 20~270rpm		
	纵向快速移动速度 Rapid feed for Axis Z	8m/min		
行程 Travel	横向快速移动速度 Rapid feed for Axis X	5m/min		
	纵向最大行程 Max. travel of Axis Z	1.55/2.05/3.05/4.05/5.05/6.05/8.05/10.05m		
刀架 Tool post	横向最大行程 Max. travel of Axis X	580mm	685mm	820mm
	刀架工位数 Tool post stations	4工位（4-ways）		
尾架 Tailstock	车刀刀杆截面尺寸 Tool cross section	40 × 40mm		50 × 50mm
	尾架套筒外径 External diameter	$\Phi 160\text{mm}$		
	尾架套筒内孔锥度 Taper of tailstock sleeve	公制Metric $\Phi 80$		
其它 Other	尾架套筒最大行程 Max. travel of tailstock sleeve	300mm		
	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	22KW（选配Optional 26KW）		
	冷却泵电机功率 Power of cooling pump	370W		
选配 Optional	卡盘规格 Chuck dia	$\Phi 1000\text{mm}$ （四爪）		$\Phi 1250\text{mm}$ （四爪）
	机床外形尺寸（长×宽×高） Overall dimensions(L×W×H)	6100 × 2370 × 2230mm	6100 × 2370 × 2300mm	6200 × 2280 × 2130mm
	机床净重 Net weight	11500kg	12300kg	12700kg
	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	○	○	○
主轴 Spindle	○	○	○	
尾架 Tailstock	●	●	●	
中心架 Steady rest	●	●	●	

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床 (硬轨) CK6140ZXE CK6146ZXE ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动，精密滚动丝杠传动。
  - ◆ 刀架有四工位，六工位，立式或卧式供选用、采用精密端齿盘定位，也可选用排刀、重复定位精度高。
  - ◆ 主轴系统刚性好、精度高。
  - ◆ 床身导轨经超音频淬火后精磨，寿命长，精度高。
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station tool post or gang tools can be selected. The post is located on precision contrite gears with a high repeated positioning accuracy.
  - ◆ The spindle system is high in rigidity and accuracy.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6140ZXE	CK6146ZEX
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ400mm	Φ460mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ210/Φ165 (排刀型Gang tools) mm	Φ240/Φ205 (排刀型Gang tools) mm
	最大工件长度 Max. workpiece length	750/1000/1500mm	
	最大车削长度 Max. turning length	620/870/1370mm	
	六工位刀架最大车削长度 6-way turret Max. turning length	430/680/1180mm	
	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ280mm	Φ340mm
主轴 Principal axis	主轴头形式 Spindle nose	D8	
	主轴通孔直径 Spindle bore	Φ80 mm	
	主轴孔锥度 Taper of spindle hole	MT.No.7	
	转速级数 Steps of spindle speed	2档ranges (档内无级stepless in each)	
	转速范围 Range of spindle speed	20~250rpm 200~1600mm	20~250rpm 200~1600mm
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min	
	横向快速移动速度 Rapid feed for Axis X	8m/min	
行程 Travel	纵向最大行程 Max. travel of Axis Z	710/960/1460mm	
	横向最大行程 Max. travel of Axis X	250/330 (排刀型Gang tools) mm	
刀架 Tool post	刀架工位数 Tool post stations	四工位，六工位或排刀 4-Stations or 6-Stations or Gang tools	
	车刀刀杆截面尺寸 Tool cross section	25 × 25mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ75mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	
	尾架套筒最大行程 Max. travel of tailstock sleeve	130mm	
其它 Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	5.5KW (选配Optional 7.5 KW)	
	冷却泵电机功率 Power of cooling pump	75W	
	机床外形尺寸 (长×宽×高) Overall dimensions(L×W×H)	2060 × 1150 × 1450mm	2310 × 1150 × 1450mm
	机床净重 Net weight	2100/2250/2800kg	2200/2350/2900kg
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	中心架 Steady rest	●	●

注：● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
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# 浙江凯达机床股份有限公司 Zhejiang Kaida Machine Tool Co., Ltd

## 经济型数控车床 ECONOMICAL CNC LATHE



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# CONTENT

## 目录

1

### 选配部分 Optional parts

2

2

### 经济型数控车床(线轨) Economical CNC lathe(linear Guide Ways)

◆ CK6130L CK6140L CK6150L

3

3

### 经济型数控车床(硬轨) Economical CNC lathe (hardened Guide Ways)

◆ CK6130S	CK6136S	CK6140S	5
◆ CK6136E	CK6140E		7
◆ CJK6136S	CJK6140S		9
◆ CK6140ZX	CK6146ZX	CK6150ZX	11
◆ CK6140ZXE	CK6146ZXE		13
◆ CJK6140ZX	CJK6146ZX		15
◆ CK6140N	CK6150N	CK6150NS	17
◆ CK6156B			19
◆ CK6150I			21
◆ CK6156	CK6166		23
◆ CK6163A	CK6180A		25
◆ CK6191B	CK61100B	CK61110B	27
◆ CK61100C	CK61125C	CK61140C	29
◆ CK61100CE	CK61125CE	CK61140CE	31
◆ CK61140	CK61160		33
◆ CK61140E	CK61160E		35
◆ CK64160	CK64160E		37

## 选配部分 Optional parts

### ◆ 系统

标准配置为我公司自主研发的国立精机18T/20T数控系统，也可选配国内外各种数控系统。

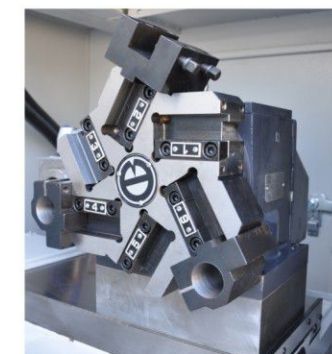
The standard CNC controller is KENT18T/20T which is produced by ourselves. Other CNC controllers is optional.



### ◆ 刀架 Tool post

可选配6工位、立式或卧式刀架，也可选配排刀。

6 station, vertical or horizontal turret can be selected. Gang tool post is also optional.



### ◆ 卡盘 Chuck

可选配中空或中实液压卡盘。

Hollowed or solid hydraulic chuck can be selected.



### ◆ 主轴 Spindle

可选配套筒主轴。

Sleeve type spindle is optional.



### ◆ 尾架 Tailstock

可选配液压尾架。

Hydraulic tailstock is optional.



### ◆ 中心架 Steady rest

为保证长工件加工可选配普通或者液压中心架。

For cutting of long parts, conventional or hydraulic steady rest can be selected.



## 经济型数控车床（硬轨） CK6136E CK6140E ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动，精密滚动丝杠传动。
  - ◆ 刀架有四工位，六工位，立式或卧式供选用、采用精密端齿盘定位，也可选用排刀、重复定位精度高。
  - ◆ 主轴系统刚性好、精度高。
  - ◆ 床身导轨经超音频淬火后精磨，寿命长，精度高。
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station tool post or gang tools can be selected. The post is located on precision contrite gears with a high repeated positioning accuracy.
  - ◆ The spindle system is high in rigidity and accuracy.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6136E	CK6140E
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ360mm ( 14" )	Φ400mm ( 15.7" )
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ180/Φ135 ( 排刀型Gang tools ) mm	Φ225/Φ195 ( 排刀型Gang tools ) mm
	最大工件长度 Max. workpiece length	500/750/1000mm	500/750/1000mm
	最大车削长度 Max. turning length	450/700/950mm	450/700/950 mm
	六工位刀架最大车削长度 6-way turret Max. turning length	340/590/840mm	
主轴 Principal axis	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ255mm	Φ300mm
	主轴头形式 Spindle nose	C5	C6
	主轴通孔直径 Spindle bore	Φ40mm	Φ52 mm
	主轴孔锥度 Taper of spindle hole	MT.No.5	MT.No.6
	转速级数 Steps of spindle speed	2档ranges ( 档内无级stepless in each )	
	转速范围 Range of spindle speed	20~250rpm 200~1600rpm	
	进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min
横向快速移动速度 Rapid feed for Axis X		8m/min	
行程 Travel	纵向最大行程 Max. travel of Axis Z	740mm	990mm
	横向最大行程 Max. travel of Axis X	215/ 295 ( 排刀型Gang tools ) mm	235/ 295 ( 排刀型Gang tools ) mm
刀架 Tool post	刀架工位数 Tool post stations	四工位，六工位或排刀 4-Stations or 6-Stations or Gang tools	
	车刀刀杆截面尺寸 Tool cross section	20 × 20mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ60mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	
	尾架套筒最大行程 Max. travel of tailstock sleeve	120mm	
其它 Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	3.7 KW ( 选配Optional 5.5 KW )	
	冷却泵电机功率 Power of cooling pump	75W	
	机床外形尺寸 ( 长 × 宽 × 高 ) Overall dimensions(L × W × H)	2100 × 1150 × 1450mm	2350 × 1150 × 1450mm
机床净重 Net weight	1800kg	2100kg	
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
中心架 Steady rest	●	●	

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

# 经济型数控车床 (硬轨) CJK6136S CJK6140S ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



## 产品特点: PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动, 精密滚珠丝杠传动。
  - ◆ 刀架有四工位, 六工位, 立式、卧式供选用, 采用精密端齿盘定位, 也可选用排刀, 重复定位精度高。
  - ◆ 卡盘和尾座有手动、液压和气动供选择。
- 
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station or 6-station tool post as well as gang tool can be selected. The post is located on precision contrite gears with a high repeated positioning accuracy.
  - ◆ Both chuck and tailstock are available with hydraulic or manual or pneumatic type.

## 技术参数: TECHNICAL SPECIFICATIONS

项目ITEMS		CJK6136S	CJK6140S
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ360mm	Φ400mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ180mm	Φ225mm
	最大工件长度 Max. workpiece length	500/750/1000mm	
	最大车削长度 Max. turning length	450/700/950mm	
	六工位刀架最大车削长度 6-way turret Max. turning length	340/590/840mm	
主轴 Principal axis	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ255mm	Φ300mm
	主轴头形式 Spindle nose	C5	C6
	主轴通孔直径 Spindle bore	Φ40mm	Φ52mm
	主轴孔锥度 Taper of spindle hole	MT.No.5	MT.No.6
	转速级数 Steps of spindle speed	12级	
	转速范围 Range of spindle speed	40 ~ 1800rpm	
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min	
	横向快速移动速度 Rapid feed for Axis X	8m/min	
行程 Travel	纵向最大行程 Max. travel of Axis Z	740mm	740mm
	横向最大行程 Max. travel of Axis X	215mm	235mm
刀架 Tool post	刀架工位数 Tool post stations	四工位 4-Stations	
	车刀刀杆截面尺寸 Tool cross section	20 × 20mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ60mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	
	尾架套筒最大行程 Max. travel of tailstock sleeve	120mm	
其它 Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	3KW ( 选配Optional3.7KW )	3.7KW ( 选配Optional5.5KW )
	冷却泵电机功率 Power of cooling pump	75W	
	机床外形尺寸 (长×宽×高) Overall dimensions(L×W×H)	2100 × 1150 × 1450 mm	2100 × 1150 × 1450 mm
机床净重 Net weight	1800kg	2100kg	
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	中心架 Steady rest	●	●

注: ● 可选配  
○ 不可选配

注: 以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考, 随产品发展的需要会进行设计更改, 更改后恕不另行通知。

## 经济型数控车床 (硬轨) CJK6140ZX CJK6146ZX ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点: PRODUCT FEATURES

- ◆ 车床纵向走刀用伺服电机驱动, 精密滚珠丝杠传动。
  - ◆ 刀架有四工位, 六工位, 立式或卧式供选用、采用精密端齿盘定位, 也可选用排刀、重复定位精度高。
  - ◆ 卡盘和尾座有液压、手动供选择。
  - ◆ 床身导轨经超音频淬火后精磨, 寿命长, 精度高。
  - ◆ 主轴通孔  $\Phi 80\text{mm}$ 。主轴系统刚性好。
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
  - ◆ Either vertical or horizontal 4-station or 6-station tool post or gang tools can be selected. The post is located on precision contridge gears with a high repeated positioning accuracy.
  - ◆ Both chuck and tailstock are available with hydraulic or manual type.
  - ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.
  - ◆ The spindle bore size is 80mm. The spindle system is high in the rigidity and accuracy.

### 技术参数: TECHNICAL SPECIFICATIONS

项目ITEMS		CJK6140ZX	CJK6146ZX
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	$\Phi 400\text{mm}$	$\Phi 460\text{mm}$
	轴类最大切削直径 Max. cutting dia. for axle parts	$\Phi 200/\Phi 165$ (排刀型Gang tools) mm	$\Phi 240/\Phi 205$ (排刀型Gang tools) mm
	最大工件长度 Max. workpiece length	750/1000/1500 mm	
	最大车削长度 Max. turning length	600/850/1350 mm	
	六工位刀架最大车削长度 6-way turret Max. turning length	430/680/1180mm	
	六工位刀架最大车削直径 6-way turret Max. turning diameter	$\Phi 280\text{mm}$	$\Phi 340\text{mm}$
主轴 Principal axis	主轴头形式 Spindle nose	D8	
	主轴通孔直径 Spindle bore	$\Phi 80\text{mm}$	
	主轴孔锥度 Taper of spindle hole	MT.No.7	
	转速级数 Steps of spindle speed	12级	
进给 Feed	转速范围 Range of spindle speed	38~1600rpm	
	纵向快速移动速度 Rapid feed for Axis Z	10m/min	
行程 Travel	横向快速移动速度 Rapid feed for Axis X	8m/min	
	纵向最大行程 Max. travel of Axis Z	710/960/1460 mm	
刀架 Tool post	横向最大行程 Max. travel of Axis X	250/320 (排刀型Gang tools) mm	280/320 (排刀型Gang tools) mm
	刀架工位数 Tool post stations	4工位, 6工位或排刀 4-Stations or 6-Stations or Gang tools	
尾架 Tailstock	车刀刀杆截面尺寸 Tool cross section	25 x 25mm	
	尾架套筒外径 External diameter	$\Phi 75\text{mm}$	
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	MT.No.5
其它 Other	尾架套筒最大行程 Max. travel of tailstock sleeve	130mm	
	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	5.5KW (选配Optional 7.5 KW)	
	冷却泵电机功率 Power of cooling pump	75W	
选配 Optional	机床外形尺寸 (长 x 宽 x 高) Overall dimensions(L x W x H)	2060/2310/2790 x 1150 x 1450mm	
	机床净重 Net weight	2250/2450/2950kg	
	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	中心架 Steady rest	●	●

注: 以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考, 随产品发展的需要会进行设计更改, 更改后恕不另行通知。

注:  
● 可选配  
○ 不可选配

## 经济型数控车床（硬轨） CK6150I ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 通过CNC控制电磁离合器实现自动换挡，结构简单、使用方便、灵活性好。
  - ◆ 主轴系统刚性好、精度高。
  - ◆ 车床纵横向伺服电机驱动，精密滚珠丝杆传动。
- ◆ Automatic gear change can be realized by CNC controlled Electro-magnetic clutch of the machine. This mechanism is simple in construction, easy for operation with good flexibility.
  - ◆ The spindle system is high in rigidity and accuracy.
  - ◆ Longitudinal and cross feeds are effected by ball leadscrews.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6150I		
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ500mm		
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ300mm		
	床身宽度 Width of bed	405mm		
	最大工件长度 Max. workpiece length	750/1000/1500/2000/3000mm		
	最大车削长度 Max. turning length	550/800/1300/1800/2800 mm		
	六工位刀架最大车削长度 6-way turret Max. turning length	490/740/1240/1740/2740mm		
主轴 Principal axis	六工位刀架最大车削直径 6-way turret Max. turning diameter	Φ350mm		
	主轴头形式 Spindle nose	A <sub>2</sub> -8		
	主轴通孔直径 Spindle bore	Φ80 mm		
	主轴孔锥度 Taper of spindle hole	MT.No.7		
	转速级数 Steps of spindle speed	3档ranges ( 档内无级stepless in each )		
	转速范围 Range of spindle speed	24~240 70~710 220~2200rpm		
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min		
	横向快速移动速度 Rapid feed for Axis X	12m/min		
行程 Travel	纵向最大行程 Max. travel of Axis Z	650/900/1400/1900/2900mm		
	横向最大行程 Max. travel of Axis X	320 mm		
刀架 Tool post	刀架工位数 Tool post stations	四工位 4-Stations		
	车刀刀杆截面尺寸 Tool cross section	32 × 32mm		
尾架 Tailstock	尾架套筒外径 External diameter	Φ75mm		
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.5		
	尾架套筒最大行程 Max. travel of tailstock sleeve	150mm		
其它 Other	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	7.5KW		
	冷却泵电机功率 Power of cooling pump	125W		
	机床外形尺寸(长×宽×高) Overall dimensions(L×W×H)	2250/2500/3000/3500 × 1500 × 1600mm		
	机床净重 Net weight	2700/3000/3500/4000/4600kg		
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	中心架 Steady rest	●	●	●

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床（硬轨） CK6191B CK61100B CK61110B ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵横向走刀用伺服电机驱动，精密滚动丝杠传动。
- ◆ 床身导轨经超音频淬火后精磨，寿命长，精度高。
- ◆ 主轴通孔直径 $\Phi 104\text{mm}$ ，主轴系统刚性好。
  
- ◆ Longitudinal and cross feeds are effected by ball leadscrews driven by servo motors.
- ◆ The surface of the bedways is supersonic frequency hardened and precision ground with a long service life.
- ◆ The spindle bore size is 104mm. The spindle system is high in the rigidity and accuracy.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK6191B	CK61100B	CK61110B
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	$\Phi 910\text{mm}$	$\Phi 1000\text{mm}$	$\Phi 1100\text{mm}$
	轴类最大切削直径 Max. cutting dia. for axle parts	$\Phi 530\text{mm}$	$\Phi 600\text{mm}$	$\Phi 720\text{mm}$
	床身宽度 Width of bed	600mm		
	最大工件长度 Max. workpiece length	1500/2000/3000/4000mm		
	最大车削长度 Max. turning length	1350/1850/2850/3850mm		
	两顶尖之间最大工件支撑重量 Max. weight between centers	2000kg		
马鞍内最大回转直径 Max. Swing Dia. over gap	$\Phi 1100\text{mm}$	$\Phi 1200\text{mm}$	$\Phi 1300\text{mm}$	
主轴 Principal axis	主轴头形式 Spindle nose	D11		
	主轴通孔直径 Spindle bore	$\Phi 104\text{mm}$		
	主轴孔锥度 Taper of spindle hole	公制Metric $\Phi 120\ 1:20$		
	转速级数 Steps of spindle speed	4档ranges (档内无级stepless in each)		
	转速范围 Range of spindle speed	10~90, 20~180, 40~320, 80~630rpm		
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	10m/min		
	横向快速移动速度 Rapid feed for Axis X	8m/min		
行程 Travel	纵向最大行程 Max. travel of Axis Z	1500/2000/3000/4000mm		
	横向最大行程 Max. travel of Axis X	520mm		
刀架 Tool post	刀架工位数 Tool post stations	四工位 4-Stations		
	车刀刀杆截面尺寸 Tool cross section	40 x 40 mm		
尾架 Tailstock	尾架套筒外径 External diameter	$\Phi 100\text{mm}$		
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.5		
	尾架套筒最大行程 Max. travel of tailstock sleeve	250mm		
其它 Other	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	15KW		
	冷却泵电机功率 Power of cooling pump	370W		
	机床外形尺寸(长×宽×高) Overall dimensions(L×W×H)	4200×2000×1930mm	4200×2000×1980mm	4200×2000×2030mm
机床净重 Net weight	6600kg	6770kg	6940kg	
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	中心架 Steady rest	●	●	●

注：● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床（硬轨） CK61100C CK61125C CK61140C ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵横向由伺服电机驱动，精密滚珠丝杠传动。
  - ◆ 主轴通孔Φ130，主轴端部为短锥面定位，定心精度高，刚性好。
  - ◆ 床头箱采用内循环强制润滑，发热量小，热变形小。
  - ◆ 床身导轨经超音频淬火后精度，寿命长，精度高。
- 
- ◆ Longitudinal and cross feeds are effected by servo motors driven by ball screws.
  - ◆ Φ130mm spindle bore, short taper positioning spindle nose for high precision and rigidity.
  - ◆ Centralized lubrication system in headstock for less heating and heat distortion.
  - ◆ Supersonic frequency hardened guide ways ensure high precision and long service life.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK61100C	CK61125C	CK61140C
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ1000mm	Φ1250mm	Φ1400mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ620mm	Φ815mm	Φ990mm
	床身宽度 Width of bed	755mm		
	最大工件长度 Max. workpiece length	1.5/2/3/4/5/6/8/10m		
	最大车削长度 Max. turning length	1.3/1.8/2.8/3.8/4.8/5.8/7.8/9.8m		
	两顶尖之间最大工件支撑重量 Max. weight between center	5000kg		
主轴 Principal axis	主轴头形式 Spindle nose	A <sub>2</sub> -15		
	主轴通孔直径 Spindle bore	Φ130 mm		
	主轴孔锥度 Taper of spindle hole	公制Metric Φ140 1:20		
	转速级数 Steps of spindle speed	手动24级（24 steps）		
	转速范围 Range of spindle speed	2.5~250rpm		
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	8m/min		
	横向快速移动速度 Rapid feed for Axis X	5m/min		
行程 Travel	纵向最大行程 Max. travel of Axis Z	1.55/2.05/3.05/4.05/5.05/6.05/8.05/10.05m		
	横向最大行程 Max. travel of Axis X	580mm	685mm	820mm
刀架 Tool post	刀架工位数 Tool post stations	4工位（4-ways）		
	车刀刀杆截面尺寸 Tool cross section	40 × 40 mm		
尾架 Tailstock	尾架套筒外径 External diameter	Φ160mm		
	尾架套筒内孔锥度 Taper of tailstock sleeve	公制Metric Φ80		
	尾架套筒最大行程 Max. travel of tailstock sleeve	300mm		
其它 Other	最小输入单位 Min. input	0.001mm		
	主电机功率 Power of main motor	22KW		
	冷却泵电机功率 Power of cooling pump	370W		
	机床外形尺寸（长×宽×高） Overall dimensions(L × W × H)	6100 × 2370 × 2230mm	6100 × 2370 × 2300mm	6100 × 2370 × 2300mm
	机床净重 Net weight	11500kg	12300kg	12700kg
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	○	○	○
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	中心架 Steady rest	●	●	●

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床（硬轨） CK61140 CK61160 ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵横向由伺服电机驱动，精密滚珠丝杠传动。
  - ◆ 主轴通孔Φ130，主轴端部为短锥面定位，定心精度高，刚性好。
  - ◆ 床头箱采用内循环强制润滑，发热量小，热变形小。
  - ◆ 床身导轨经超音频淬火后精度，寿命长，精度高。
- 
- ◆ Longitudinal and cross feeds are effected by servo motors driven by ball screws.
  - ◆ Φ130mm spindle bore, short taper positioning spindle nose for high precision and rigidity.
  - ◆ Centralized lubrication system in headstock for less heating and heat distortion.
  - ◆ Supersonic frequency hardened guide ways ensure high precision and long service life.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK61140	CK61160
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ1400mm	Φ1600mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ900mm	Φ1190mm
	床身宽度 Width of bed	970mm	
	最大工件长度 Max. workpiece length	1.5/2/3/4/5/6/8/10m	
	最大车削长度 Max. turning length	1.3/1.8//2.8/3.8/4.8/5.8/7.8/9.8m	
主轴 Principal axis	两顶尖之间最大工件支撑重量 Max. weight between center	6000kg	
	主轴头形式 Spindle nose	A <sub>2</sub> -15	
	主轴通孔直径 Spindle bore	Φ130 mm	
	主轴孔锥度 Taper of spindle hole	公制Metric Φ140 1:20	
	转速级数 Steps of spindle speed	手动24级 (24 steps)	
	转速范围 Range of spindle speed	2.5~250r/min	
	进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	8m/min
横向快速移动速度 Rapid feed for Axis X		5m/min	
行程 Travel	纵向最大行程 Max. travel of Axis Z	1.5/2/3/4/5/6/8/10m	
	横向最大行程 Max. travel of Axis X	820mm	900mm
刀架 Tool post	刀架工位数 Tool post stations	4工位 (4-ways)	
	车刀刀杆截面尺寸 Tool cross section	50 × 50mm	
尾架 Tailstock	尾架套筒外径 External diameter	Φ160mm	
	尾架套筒内孔锥度 Taper of tailstock sleeve	公制Metric Φ80	
	尾架套筒最大行程 Max. travel of tailstock sleeve	300mm	
其它 Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	22KW	
	冷却泵电机功率 Power of cooling pump	370W	
	机床外形尺寸 (长×宽×高) Overall dimensions(L × W × H)	6200 × 2280 × 2130mm	6200 × 2280 × 2300mm
	机床净重 Net weight	12700kg	13500kg
选配 Optional	系统选配 CNC system	●	●
	刀架选配 Tool post	●	●
	卡盘选配 Chuck	○	○
	主轴选配 Spindle	○	○
	尾架选配 Tailstock	●	●
中心架选配 Steady rest	●	●	

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。



## 经济型数控车床（硬轨） CK61140E CK61160E ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 车床纵横向由伺服电机驱动，精密滚珠丝杠传动。
  - ◆ 主轴通孔  $\Phi 130$ ，主轴端部为短锥面定位，定心精度高，刚性好。
  - ◆ 床头箱采用内循环强制润滑，发热量小，热变形小。
  - ◆ 床身导轨经超音频淬火后精度，寿命长，精度高。
- 
- ◆ Longitudinal and cross feeds are effected by servo motors driven by ball screws.
  - ◆  $\Phi 130\text{mm}$  spindle bore, short taper positioning spindle nose for high precision and rigidity.
  - ◆ Centralized lubrication system in headstock for less heating and heat distortion.
  - ◆ Supersonic frequency hardened guide ways ensure high precision and long service life.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK61140E	CK61160E
加工Machining	盘类最大切削直径 Max. cutting dia. for disc parts	$\Phi 1400\text{mm}$	$\Phi 1600\text{mm}$
	轴类最大切削直径 Max. cutting dia. for axle parts	$\Phi 1000\text{mm}$	$\Phi 1190\text{mm}$
	床身宽度 Width of bed	970mm	
	最大工件长度 Max. workpiece length	1.5/2/3/4/5/6/8/10m	
	最大车削长度 Max. turning length	1.3/1.8//2.8/3.8/4.8/5.8/7.8/9.8m	
主轴Principal axis	主轴头形式 Spindle nose	A <sub>2</sub> -15	
	主轴通孔直径 Spindle bore	$\Phi 130\text{mm}$	
	主轴孔锥度 Taper of spindle hole	公制Metric $\Phi 140\ 1:20$	
	转速级数 Steps of spindle speed	2档 ranges (档内无级 stepless in each)	
	转速范围 Range of spindle speed	2.5~270r/min	
进给Feed	纵向快速移动速度 Rapid feed for Axis Z	8m/min	
	横向快速移动速度 Rapid feed for Axis X	5m/min	
行程Travel	纵向最大行程 Max. travel of Axis Z	1.5/2/3/4/5/6/8/10m	
	横向最大行程 Max. travel of Axis X	820mm	900mm
刀架Tool post	刀架工位数 Tool post stations	4 stations	
	车刀刀杆截面尺寸 Tool cross section	50 × 50mm	
尾架Tailstock	尾架套筒外径 External diameter	$\Phi 160\text{mm}$	
	尾架套筒内孔锥度 Taper of tailstock sleeve	公制Metric $\Phi 80$	
	尾架套筒最大行程 Max. travel of tailstock sleeve	300mm	
其它Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	22KW	
	冷却泵电机功率 Power of cooling pump	370W	
	卡盘规格 Chuck dia	$\Phi 1250$ (四爪4-Jaw)	$\Phi 1400\text{mm}$ (四爪4-Jaw)
	机床外形尺寸(长×宽×高) Overall dimensions(L×W×H)	6200 × 2280 × 2130mm	6200 × 2280 × 2300mm
机床净重 Net weight	12700kg	13500kg	
选配Optional	系统选配 CNC system	●	●
	刀架选配 Tool post	●	●
	卡盘选配 Chuck	○	○
	主轴选配 Spindle	○	○
	尾架选配 Tailstock	●	●
	中心架选配 Steady rest	●	●

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

## 经济型数控车床（硬轨） CK64160 CK64160E ECONOMICAL CNC LATHE (HARDENED GUIDE WAYS)



### 产品特点：PRODUCT FEATURES

- ◆ 适用于大平面盘环类零件车削。
  - ◆ 底座宽度1100mm，底座上导轨采用经超音频淬火的双山型结构。
  - ◆ 可手动调节托板运动的横向床身到主轴卡盘的距离。
  - ◆ 横向采用矩形导轨，纵向采用燕尾导轨。
  - ◆ 纵横向由伺服电机驱动，精密滚珠丝杠传动。
- 
- ◆ Suitable for turning of large flat parts of plate and ring type.
  - ◆ 1100mm wide base with double convex guide ways supersonorically hardened.
  - ◆ Distance between cross bed and chuck can be manually adjusted.
  - ◆ .Square type for cross guide way and dovetail type for longitudinal guide way.
  - ◆ Longitudinal and cross feeds are effected by servo motors driven by ball screws.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		CK64160	CK64160E
加工 Machining	盘类最大切削直径 Max. cutting dia. for disc parts	Φ1600mm	
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ1000mm	
	床身宽度 Width of bed	1100mm	
	最大工件长度 Max. workpiece length	500mm	
主轴 Principal axis	主轴头形式 Spindle nose	A <sub>2</sub> -15	
	主轴通孔直径 Spindle bore	Φ130 mm	
	主轴孔锥度 Taper of spindle hole	公制Metric Φ140 1:20	
	转速级数 Steps of spindle speed	手动24级 (24 steps)	手动2档, 档内无级 2 steps (stepless in each)
	转速范围 Range of spindle speed	2.5~250rpm	2.5~34、20~270 rpm
进给 Feed	纵向快速移动速度 Rapid feed for Axis Z	6m/min	
	横向快速移动速度 Rapid feed for Axis X	12m/min	
行程 Travel	纵向最大行程 Max. travel of Axis Z	500 mm	
	横向最大行程 Max. travel of Axis X	900mm	
刀架 Tool post	刀架工位数 Tool post stations	4 stations	
	主轴中心到装刀面距离 Distance from the Main Shaft Center to the Cutter Installation Surface	50mm	
其它 Other	最小输入单位 Min. input	0.001mm	
	主电机功率 Power of main motor	22KW	22KW ( 选配Optional 26KW )
	冷却泵电机功率 Power of cooling pump	250W	
	机床外形尺寸 (长×宽×高) Overall dimensions(L×W×H)	3500×2600×2100mm	
	机床净重 Net weight	11000kg	
选配 Optional	系统选配 CNC system	●	●
	刀架选配 Tool post	●	●
	卡盘选配 Chuck	○	○
	主轴选配 Spindle	○	○
	尾架选配 Tailstock	○	○
中心架选配 Steady rest	○	○	

注：  
● 可选配  
○ 不可选配

注：以上参数可以按客户的需求进行更改设计。  
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。

# 立式加工中心 (线轨) KDVM1160L KDVM1370L VERTICAL MACHINING CENTER (LINEAR GUIDEWAYS)

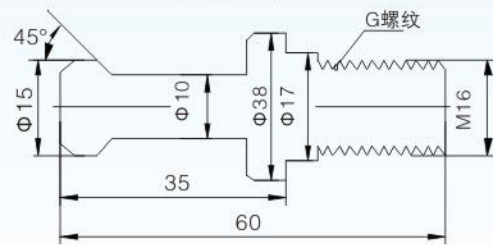


## 产品特点: PRODUCT FEATURES

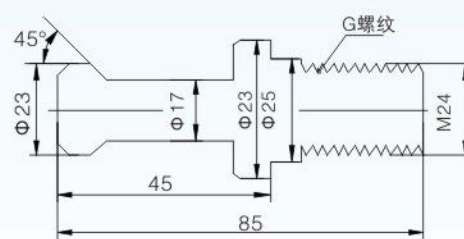
- ◆ 宽底座设计, X、Y、Z 向均采用精密直线导轨; ◆ Wide base design with X、Y and Z three sets of precision linear roller ways for the machine.
- ◆ 滚珠丝杠采用预拉伸; ◆ Ball screws are pre-stretched to eliminate back play.
- ◆ 即适合强切削, 也适合精密加工。 ◆ Suitable for both rough and finishing cut.

## 机床所用常规刀具规格:

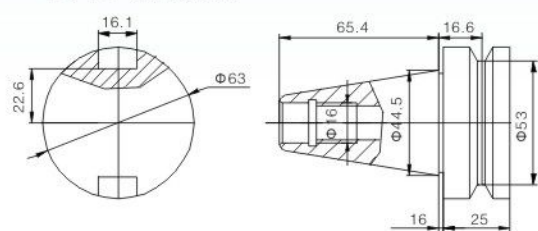
BT40 45° 拉钉尺寸



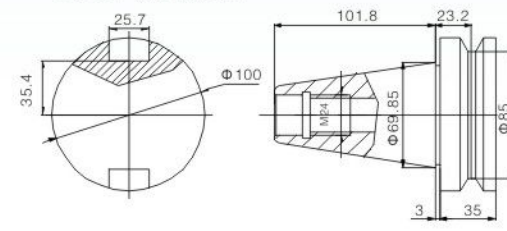
BT50 45° 拉钉尺寸



BT40 刀柄尺寸



BT50 刀柄尺寸



## 技术参数: TECHNICAL SPECIFICATIONS

项目ITEMS		KDVM1160L	KDVM1370L
<b>行程</b>			
工作台行程 (X)	X travel	1100mm	1300mm
滑鞍行程 (Y)	Y travel	600mm	700mm
主轴箱行程 (Z)	Z travel	600mm	850mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way		640mm	794mm
主轴端面到工作台面距离 Distance between spindle end and table		120~720 mm	105~955 mm
<b>工作台</b>			
工作台尺寸	Table size	1250 × 600 mm	1480 × 700 mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)		18 × 5 × 100 mm	18 × 5 × 125mm
工作台最大承重	Max. table load	800kg	1000kg
<b>主轴</b>			
主轴锥孔	Taper bore of Spindle	BT40	BT50
主轴转速	Spindle speed	8000rpm	6000rpm
主轴电机功率	Main motor power	11/15KW	15/18.5KW
<b>进给</b>			
X、Y轴快速移动速度	X、Y travel speed	30m/min	24m/min
Z轴快速移动速度	Z travel speed	24m/min	24m/min
X/Y/Z轴电机扭矩	X、Y、Z Motor torque	20/20/20Nm	22/22/22Nm
X/Y/Z向导轨	X/Y/Z axis guide rail	精密直线滚动导轨	精密直线滚动导轨
重复定位精度 (X/Y/Z) Repeatability (X/Y/Z)		≤0.006mm	≤0.006mm
<b>换刀系统</b>			
刀库容量	Tool number	24把	24把
相邻刀具最大直径 Max. tool size (With adjacent tool)		Φ76mm	Φ105mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)		Φ150mm	Φ220mm
刀具最大重量	Max. tool weight	8kg	15kg
刀具最大长度	Max. tool length	300 mm	350 mm
换刀时间 (刀对刀) Tool changing time (cut to cut)		2s	2.5s
<b>其它</b>			
机床防护罩	Machine protection shield	全封闭	全封闭
机床外形尺寸 (长 × 宽 × 高) (带排屑器 With automatic conveying)	Overall dimensions (L × W × H)	4600 × 2500 × 2800mm	5040 × 2900 × 3370mm
机床重量	Net weight	6400kg	12000kg
<b>选配</b>			
系统选配	CNC system is optional	●	●
主轴选配	Spindle is optional	●	●
主轴油冷润滑选配 Spindle oil cooling lubrication is optional		●	●
伺服主电机选配	Spindle servo motor is optional	●	●
ZF变速箱选配	ZF gear transmission is optional	●	●
第四轴、第五轴选配	The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional	●	●
雷尼绍测量选配	Renishaw measuring is optional	●	●
光栅尺选配	Grating ruler is optional	●	●
油水分离选配	Oil water separation is optional	●	●

注: ● 可选配 ○ 不可选配

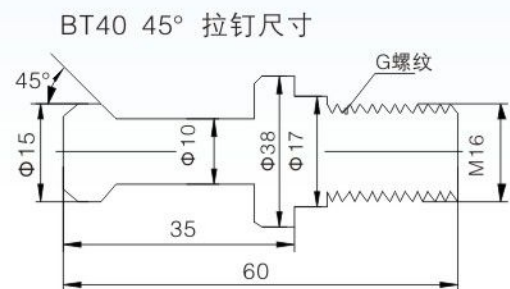
# 立式加工中心 (线轨) KDVM600L KDVM800L KDVM1000L VERTICAL MACHINING CENTER (LINEAR GUIDEWAYS)



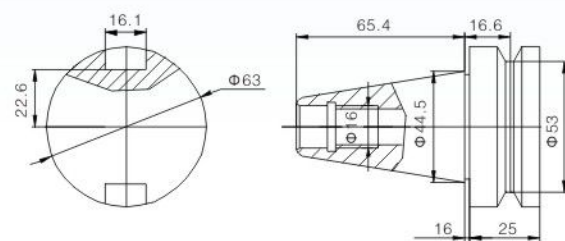
## 产品特点：PRODUCT FEATURES

- ◆ 宽底座设计，X、Y、Z向均采用精密直线导轨；
- ◆ 滚珠丝杠采用预拉伸；
- ◆ 适合强切削，也适合精密加工。
- ◆ Wide base design with X、Y and Z three sets of precision linear roller ways for the machine.
- ◆ Ball screws are pre-stretched to eliminate back play.
- ◆ Suitable for both rough and finishing cut.

## 机床所用常规刀具规格：



BT40 刀柄尺寸



## 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS	KDVM600L	KDVM800L	KDVM1000L
<b>行程</b>			
工作台行程 (X) X travel	600mm	800mm	1000mm
滑鞍行程 (Y) Y travel	430 mm	530 mm	530 mm
主轴箱行程 (Z) Z travel	500 mm	530 mm	530 mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way	484 mm	550 mm	550 mm
主轴端面到工作台面距离 Distance between spindle end and table	90~570 mm	145 ~ 675 mm	145 ~ 675 mm
<b>工作台</b>			
工作台尺寸 Table size	750 × 400 mm	930 × 510 mm	1130 × 510 mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)	18 × 3 × 110 mm	18 × 3 × 160 mm	18 × 3 × 160 mm
工作台最大承重 Max. table load	500kg	600kg	600kg
<b>主轴</b>			
主轴锥孔 Taper bore of Spindle	BT40	BT40	BT40
主轴转速 Spindle speed	8000rpm	8000rpm	8000rpm
主轴电机功率 Main motor power	7.5/11KW	7.5/11KW	7.5/11KW
<b>进给</b>			
X、Y轴快速移动速度 X、Y travel speed	24m/min	24m/min	24m/min
Z轴快速移动速度 Z travel speed	24 m/min	24m/min	24m/min
X/Y/Z轴电机扭矩 X、Y、Z Motor torque	11/11/11Nm	11/11/11Nm	11/11/11Nm
X/Y/Z向导轨 X/Y/Z axis guide rail	精密直线滚动导轨	精密直线滚动导轨	精密直线滚动导轨
重复定位精度 (X/Y/Z) Repeatability (X/Y/Z)	≤0.006mm	≤0.006mm	≤0.006mm
<b>换刀系统</b>			
刀库容量 Tool number	20把	24把	24把
相邻刀具最大直径 Max. tool size (With adjacent tool)	Φ76mm	Φ76mm	Φ76mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)	Φ150mm	Φ150mm	Φ150mm
刀具最大重量 Max. tool weight	8kg	8kg	8kg
刀具最大长度 Max. tool length	300 mm	300 mm	300 mm
换刀时间 (刀对刀) Tool changing time (cut to cut)	2s	2s	2s
<b>其它</b>			
机床防护罩 Machine protection shield	全封闭	全封闭	全封闭
机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L×W×H) (带排屑器 With automatic conveying)	3550 × 2100 × 2400mm	3750 × 2300 × 2700mm	4300 × 2300 × 2700 mm
机床重量 Net weight	3900kg	5150kg	5480kg
<b>选配</b>			
系统选配 CNC system is optional	●	●	●
主轴选配 Spindle is optional	●	●	●
主轴油冷润滑选配 Spindle oil cooling lubrication is optional	●	●	●
伺服主电机选配 Spindle servo motor is optional	●	●	●
ZF变速箱选配 ZF gear transmission is optional	○	●	●
第四轴、第五轴选配 The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional	○	●	●
雷尼绍测量选配 Renishaw measuring is optional	●	●	●
光栅尺选配 Grating ruler is optional	●	●	●
油水分离选配 Oil water separation is optional	●	●	●

注：● 可选配 ○ 不可选配

## 立式加工中心 (线轨) KDVM800LA KDVM800LH KDVM1000LA KDVM1000LH VERTICAL MACHINING CENTER (LINEAR GUIDE WAYS)

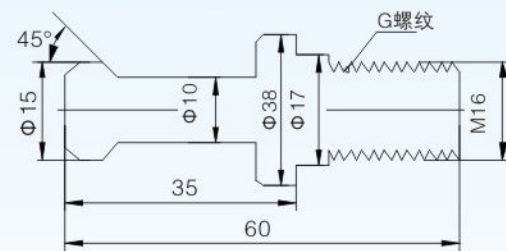


### 产品特点：PRODUCT FEATURES

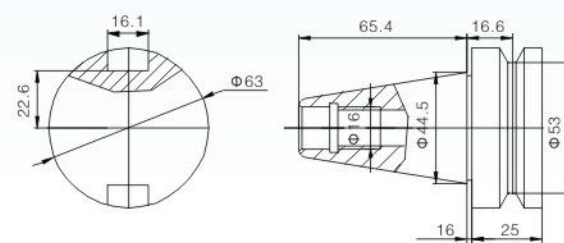
- ◆ 宽底座设计，X、Y向均采用三组精密直线导轨，五个滑块，Z向采用二组精密直线导轨，六个滑块。切削刚性及精度稳定性好，适宜强切和精密加工；
- ◆ 滚珠丝杠驱动端安装四只角接触精密球轴承，另一端为三只角接触精密轴承，并进行预拉伸；
- ◆ 主轴部件采用5只角接触精密球轴承，切削刚性好；
- ◆ 提供大出水量到加工区域。
- ◆ Wide base design with three sets of precision linear roller ways and 5 sliding block on X and Y axes, and two sets of precision linear roller ways and 6 sliding blocks on Z axis. The machines are suitable for both rough and finish machining because of high rigidity, precision and stability.
- ◆ Ball screw's driving end equipped with 4 precision angular contact ball bearings and the other end with 3 ones, ball screw pre-extended.
- ◆ Spindle supported by 5 precision angular contact ball bearings. With good rigidity for cutting.
- ◆ turning area can be supplied with full coolant.

### 机床所用常规刀具规格：

BT40 45° 拉钉尺寸



BT40 刀柄尺寸



### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS	KDVM800LA	KDVM800LH	KDVM1000LA	KDVM1000LH
<b>行程</b>				
工作台行程 (X) X travel	800mm	800mm	1000mm	1000mm
滑鞍行程 (Y) Y travel	530mm	530mm	530mm	530mm
主轴箱行程 (Z) Z travel	530mm	530mm	530mm	530mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way	550mm	550mm	550mm	550mm
主轴端面到工作台面距离 Distance between spindle end and table	145~675 mm	145~675 mm	145~675 mm	145~675 mm
<b>工作台</b>				
工作台尺寸 Table size	950 × 510 mm	950 × 510 mm	1130 × 510 mm	1130 × 510 mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)	18 × 5 × 100 mm	18 × 5 × 100 mm	18 × 5 × 100 mm	18 × 5 × 100 mm
工作台最大承重 Max. table load	600kg	600kg	600kg	600kg
<b>主轴</b>				
主轴锥孔 Taper bore of Spindle	BT40	BT40	BT40	BT40
主轴转速 Spindle speed	8000rpm	8000rpm	8000rpm	8000rpm
主轴电机功率 Main motor power	11/15KW	11/15KW	11/15KW	11/15KW
<b>进给</b>				
X、Y轴快速移动速度 X、Y travel speed	30m/min	36m/min	30m/min	36m/min
Z轴快速移动速度 Z travel speed	30m/min	36m/min	30m/min	36m/min
X/Y/Z轴电机扭矩 X、Y、Z Motor torque	20/20/20Nm	12/12/22Nm	20/20/20Nm	12/12/22Nm
X/Y/Z向导轨 X/Y/Z axis guide rail	精密直线滚动导轨	精密直线滚动导轨	精密直线滚动导轨	精密直线滚动导轨
重复定位精度 (X/Y/Z) Repeatability (X/Y/Z)	≤0.006mm	≤0.006mm	≤0.006mm	≤0.006mm
<b>换刀系统</b>				
刀库容量 Tool number	24把	24把	24把	24把
相邻刀具最大直径 Max. tool size (With adjacent tool)	Φ76mm	Φ76mm	Φ76mm	Φ76mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)	Φ150mm	Φ150mm	Φ150mm	Φ150mm
刀具最大重量 Max. tool weight	8kg	8kg	8kg	8kg
刀具最大长度 Max. tool length	300 mm	300 mm	300 mm	300 mm
换刀时间 (刀对刀) Tool changing time (cut to cut)	2s	2s	2s	2s
<b>其它</b>				
机床防护罩 Machine protection shield	全封闭	全封闭	全封闭	全封闭
机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L × W × H) (带排屑器 With automatic conveying)	3750 × 2300 × 2700mm	3750 × 2300 × 2700mm	4300 × 2300 × 2700mm	4300 × 2300 × 2700mm
机床重量 Net weight	5150kg	5150kg	5480kg	5480kg
<b>选配</b>				
系统选配 CNC system is optional	●	●	●	●
主轴选配 Spindle is optional	●	●	●	●
主轴油冷润滑选配 Spindle oil cooling lubrication is optional	●	●	●	●
伺服主电机选配 Spindle servo motor is optional	●	●	●	●
ZF变速箱选配 ZF gear transmission is optional	●	●	●	●
第四轴、第五轴选配 The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional	●	●	●	●
雷尼绍测量选配 Renishaw measuring is optional	●	●	●	●
光栅尺选配 Grating ruler is optional	●	●	●	●
油水分离选配 Oil water separation is optional	●	●	●	●

注：● 可选配 ○ 不可选配

## 立式加工中心 (线轨) KDVM800LG KDVM1000LG VERTICAL MACHINING CENTER (LINEAR GUIDE WAYS)

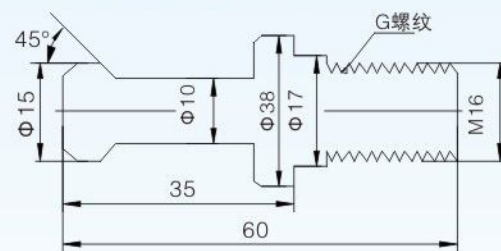


### 产品特点：PRODUCT FEATURES

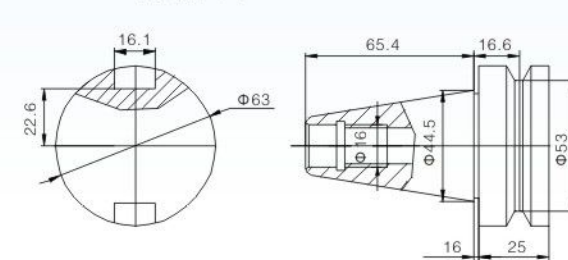
- ◆ 宽底座设计，X、Y向均采用三组精密直线导轨，五个滑块，Z向采用二组精密直线导轨，六个滑块。切削刚性及精度稳定性好，适宜强切和精密加工；
- ◆ 滚珠丝杠驱动端安装四只角接触精密球轴承，另一端为三只角接触精密轴承，并进行预拉伸；
- ◆ 主轴部件采用5只角接触精密球轴承，切削刚性好；
- ◆ 提供大出水量到加工区域。
- ◆ Wide base design with three sets of precision linear roller ways and 5 sliding block on X and Y axes, and two sets of precision linear roller ways and 6 sliding blocks on Z axis. The machines are suitable for both rough and finish machining because of high rigidity, precision and stability.
- ◆ Ball screw's driving end equipped with 4 precision angular contact ball bearings and the other end with 3 ones, ball screw pre-extended.
- ◆ Spindle supported by 5 precision angular contact ball bearings. With good rigidity for cutting.
- ◆ turning area can be supplied with full coolant.

### 机床所用常规刀具规格：

BT40 45° 拉钉尺寸



BT40 刀柄尺寸



### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDVM800LG	KDVM1000LG
<b>行程</b>			
工作台行程 (X)	X travel	800mm	1000mm
滑鞍行程 (Y)	Y travel	530mm	530mm
主轴箱行程 (Z)	Z travel	530mm	530mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way		550mm	550mm
主轴端面到工作台面距离 Distance between spindle end and table		145~675 mm	145~675 mm
<b>工作台</b>			
工作台尺寸	Table size	950 × 510 mm	1130 × 510 mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)		18 × 5 × 100 mm	18 × 5 × 100 mm
工作台最大承重	Max. table load	600kg	600kg
<b>主轴</b>			
主轴锥孔	Taper bore of Spindle	BT40	BT40
主轴转速	Spindle speed	8000rpm	8000rpm
主轴电机功率	Main motor power	11/15KW	11/15KW
<b>进给</b>			
X、Y轴快速移动速度	X、Y travel speed	48m/min	48m/min
Z轴快速移动速度	Z travel speed	48m/min	48m/min
X/Y/Z轴电机扭矩	X、Y、Z Motor torque	22/22/22Nm	22/22/22Nm
X/Y/Z向导轨	X/Y/Z axis guide rail	精密直线滚动导轨	精密直线滚动导轨
重复定位精度 (X/Y/Z)	Repeatability (X/Y/Z)	≤0.006mm	≤0.006mm
<b>换刀系统</b>			
刀库容量	Tool number	24把	24把
相邻刀具最大直径 Max. tool size (With adjacent tool)		Φ76mm	Φ76mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)		Φ150mm	Φ150mm
刀具最大重量	Max. tool weight	8kg	8kg
刀具最大长度	Max. tool length	300 mm	300 mm
换刀时间 (刀对刀)	Tool changing time (cut to cut)	2s	2s
<b>其它</b>			
机床防护罩	Machine protection shield	全封闭	全封闭
机床外形尺寸 (长 × 宽 × 高) (带排屑器 With automatic conveying)	Overall dimensions (L × W × H)	3750 × 2300 × 2700mm	4300 × 2300 × 2700 mm
机床重量	Net weight	5150kg	5480kg
<b>选配</b>			
系统选配	CNC system is optional	●	●
主轴选配	Spindle is optional	●	●
主轴油冷润滑选配 Spindle oil cooling lubrication is optional		●	●
伺服主电机选配	Spindle servo motor is optional	●	●
ZF变速箱选配	ZF gear transmission is optional	●	●
第四轴、第五轴选配	The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional	●	●
雷尼绍测量选配	Renishaw measuring is optional	●	●
光栅尺选配	Grating ruler is optional	●	●
油水分离选配	Oil water separation is optional	●	●

注：● 可选配 ○ 不可选配

# 浙江凯达机床股份有限公司 Zhejiang Kaida Machine Tool Co., Ltd

## 立式加工中心分样册



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# CONTENT

## 目录

1	<b>选配部分</b> <b>Optional parts</b>	2
2	<b>产品特点介绍</b> <b>Introduction of product features</b>	3
3	<b>立式加工中心(线轨)</b> <b>Vertical machining center (Linear guide ways)</b>	
	◆ KDVM600L KDVM800L KDVM1000L	5
	◆ KDVM800LA KDVM800LH KDVM1000LA KDVM1000LH	7
	◆ KDVM800LG KDVM1000LG	9
	◆ KDVM1160L KDVM1370L	11
4	<b>立式加工中心(硬轨)</b> <b>Vertical machining center (Hardened guide ways)</b>	
	◆ KDVM650 KDVM800 KDVM1100	13
	◆ KDVM1370 KDVM1580 KDVM1690	15
5	<b>钻攻中心</b> <b>Drilling&amp;Tapping Center</b>	
	◆ KDZ500H	17

## 选配部分 Optional parts

### ◆ 系统选配 CNC system is optional



标准配置为FANUC系统，也可根据客户需求选配国内外各类数控系统。

FANUC system is standard. Other control systems both at home and abroad can be adopted according to customer's requirement.

### ◆ 主轴选配 Spindle is optional

主轴最高转速10000r/min或12000r/min;  
 Max spindle speed 10000r/min or 12000r/min;  
 主轴中心出水;  
 Spindle center water spray;  
 直连主轴;  
 Direct spindle connection;



### ◆ 油水分离选配

Oil water separation is optional



### ◆ 伺服电机选配

Spindle servo motor is optional

宽域电机 Wide range constant power motor



### ◆ 第四(五)轴选配

The 4<sup>th</sup>/5<sup>th</sup> axis is optional



为满足各类复杂工件的加工需求可选配国内外各类品牌的CNC分度盘。

CNC indexing discs of different brands both at home and abroad can be adopted to satisfy various complicated parts machining.

### ◆ 主轴油冷润滑选配

Spindle oil cooling lubrication is optional

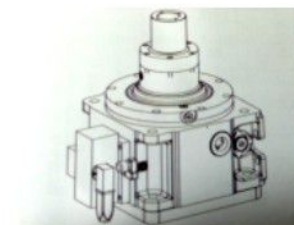


应对于高转速加工可  
选配主轴油冷。

Spindle oil cooling can be selected for high speed cutting.

### ◆ ZF变速箱选配

ZF gear transmission is optional



### ◆ 测量选配

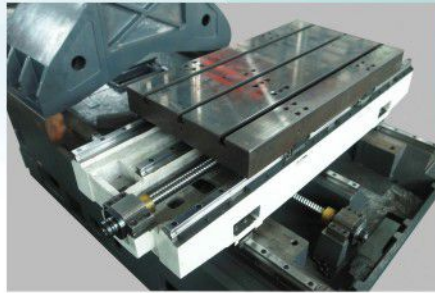
Measuring is optional

雷尼绍 Renishaw 光栅尺 Grating ruler





# 产品特点介绍 Introduction of product features



**基础铸件**  
Base castings

底座、立柱、床鞍、工作台、主轴箱均采用高强度优质铸铁，薄壁多筋结构，树脂砂生产铸造，经多次时效处理，保证了机床具有良好的稳定性、刚度结构和精度保持性。

Base, column, saddle, working table and headstock castings all adopt high strength and high quality cast iron, thin-wall ribbed structure, resin sand casting and aging treatment for many times to ensure that the machine has good stability and rigidity and to maintain machine accuracy.

**主轴传动系统**  
The machine main drive system:

该机床主轴传动系统分两种：第一种直连主轴采用同步带的传动方式，实现主轴的高效、高速；第二种是大扭矩机床上采用齿轮变速机构，保证了主轴的低速大扭矩和宽域恒功率工作。

The main drive of this machine can be classified into two kinds: The first kind adopts direct connecting by synchronous belt to realize high efficiency and high speed of the spindle. The second kind adopts gear transmission to ensure large torque for the spindle at lower speed and wide range constant power.



**防护装置**

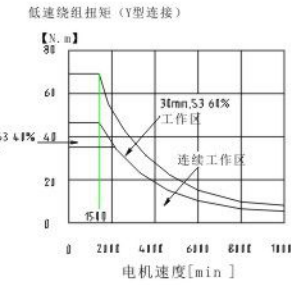
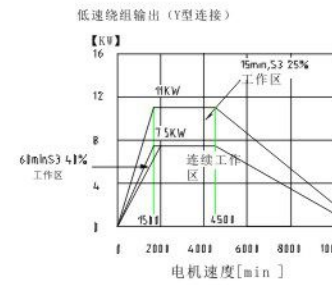
机床配置全封闭防护罩，外形美观，空间合理，操作方便。

Protection device: The machine is equipped with fully enclosed shield, beautiful appearance, reasonable space and is easy to operate.

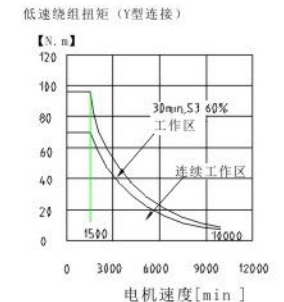
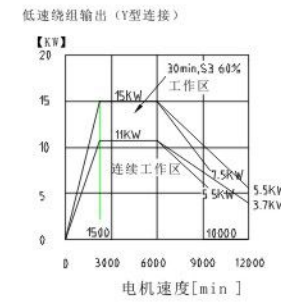
## 机床所用主电机功率扭矩图

Power-torque diagram for machine main motor

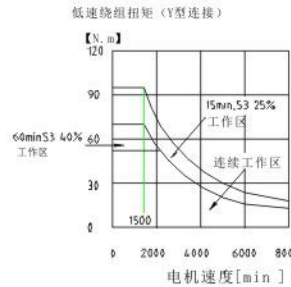
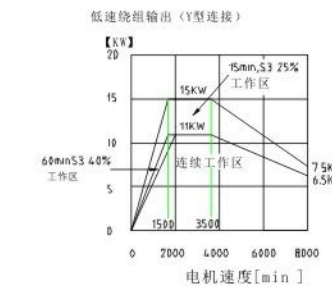
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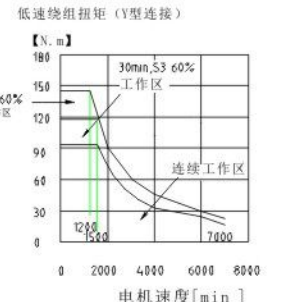
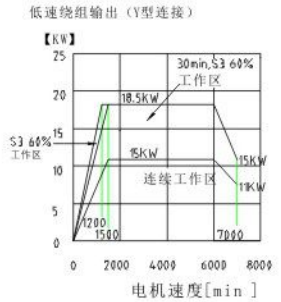
**$\alpha$  i 12/10000**



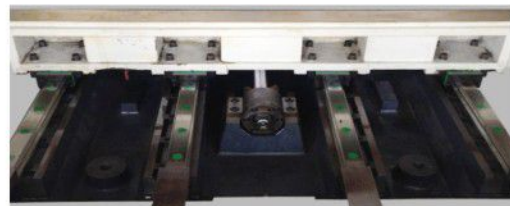
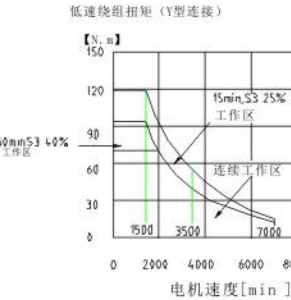
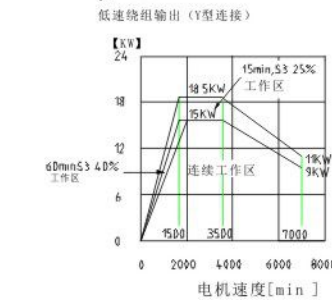
**$\beta$  i 12/8000**



**$\alpha$  i 15/7000**



**$\beta$  i 15/7000**



**进给传动 Feed drive**

X/Y/Z三向进给采用交流伺服电机通过联轴器与精密滚珠丝杠直连，专用丝杠轴承座，安装时采用预拉伸，提高了机床的进给运动的刚性和精度。

X, Y and Z three axis drive adopts AC servo motors. Through coupling and precision ball screw direct connecting, using special screw bearing seats and pre-tension of ball screw in installation, the precision and rigidity of the machine tool feed motion can be greatly improved.

**导轨形式**  
Guide rails

为了适应不同的工作要求，本系列机床提供了两种不同的导轨配置，进口精密直线滚动导轨用以满足高速、高响应的加工需求，具有移动速度快，加工精度高等特点；铸铁淬火导轨（硬轨）为大功率切削提供了良好的刚性和稳定性。

To suit different working requirements, this series machines provide two kinds of guide rails: Imported precision rolling rails for high speed and sensitive feeding with a characteristic of rapid feed and high precision cutting; Hardened cast iron rails for large power cutting with good rigidity and stability.

★ 我公司KDVM800L和KDVM1000L系列产品X/Y向采用三组精密直线导轨五滑块，Z向两组精密直线导轨六滑块的结构形式大大的提高了机床承重、刚性、精度和切削能力，使得在加工方面显得出类拔萃。

KDVM800L and KDVM1000L series products of our company adopt three groups of linear guide rails and five sliding blocks for X/Y axis and two groups of linear guide rails and six sliding blocks for Z axis, which greatly increases the machine load capacity, rigidity, precision and cutting capacity and is an outstanding machine feature.

**自动换刀机构**  
Automatic tool change mechanism



配置稳定可靠的圆盘式自动换刀装置，刀库容量可选配T24或T30。换刀性能经过严格的运转测试，动作协调精准，快速可靠。

Stable and reliable disc type tool change device is provided for the machine. T24 or T30 can be selected for its tool capacity.

Tool change performance is strictly tested through trial running. Its action is coordinate and precise, rapid and reliable.

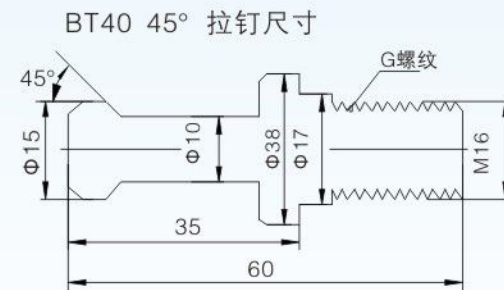
## 立式加工中心 (硬轨) KDVM650 KDVM800 KDVM1100 VERTICAL MACHINING CENTER (HARDENED GUIDE WAYS)



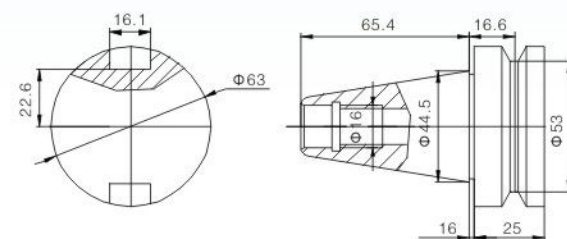
### 产品特点：PRODUCT FEATURES

- ◆ 铸件由树脂砂铸造，经自然时效及两次人工时效处理，保证机床具有良好的精度稳定性；
- ◆ 采用矩形淬硬导轨，硬度HRC52以上，完美的加强结构，提高机床刚性，为高精度和重切削建立稳定牢固的基础；
- ◆ 滚珠丝杆采用预拉伸。
- ◆ The casting is made of resin-bonded sand, after natural aging and twice artificial aging process; it assured good precision and stability.
- ◆ Hardened box way and perfect reinforcement structure increased the machine's rigidity and assured its high precision and heavy cutting; box ways' hardness is above HRC 52;
- ◆ Pretension ball screws used;

### 机床所用常规刀具规格：



### BT40 刀柄尺寸



### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS	KDVM650	KDVM800	KDVM1100
<b>行程</b>			
工作台行程 (X) X travel	600mm	800mm	1100mm
滑鞍行程 (Y) Y travel	400 mm	450 mm	550 mm
主轴箱行程 (Z) Z travel	480 mm	550 mm	600 mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way	480mm	550 mm	610 mm
主轴端面到工作台面距离 Distance between spindle end and table	140~620 mm	105~655 mm	150~750 mm
<b>工作台</b>			
工作台尺寸 Table size	800 × 420 mm	950 × 460 mm	1200 × 580 mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)	18 × 3 × 135mm	18 × 3 × 150 mm	18 × 5 × 120 mm
工作台最大承重 Max. table load	500kg	600kg	800kg
<b>主轴</b>			
主轴锥孔 Taper bore of Spindle	BT40	BT40	BT40
主轴转速 Spindle speed	8000rpm	8000rpm	8000rpm
主轴电机功率 Main motor power	7.5/11KW	7.5/11KW	11/15KW
<b>进给</b>			
X、Y轴快速移动速度 X、Y travel speed	18m/min	20m/min	20m/min
Z轴快速移动速度 Z travel speed	18m/min	20m/min	20m/min
X/Y/Z轴电机扭矩 X、Y、Z Motor torque	11/11/11Nm	11/11/11Nm	20/20/20Nm
X/Y/Z导轨 X/Y/Z axis guide rail	淬硬矩形导轨	淬硬矩形导轨	淬硬矩形导轨
重复定位精度 (X/Y/Z) Repeatability (X/Y/Z)	≤0.006mm	≤0.006mm	≤0.006mm
<b>换刀系统</b>			
刀库容量 Tool number	20把	24把	24把
相邻刀具最大直径 Max. tool size (With adjacent tool)	Φ76 mm	Φ76mm	Φ76mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)	Φ150mm	Φ150mm	Φ150mm
刀具最大重量 Max. tool weight	8kg	8kg	8kg
刀具最大长度 Max. tool length	300 mm	300 mm	300 mm
换刀时间 (刀对刀) Tool changing time (cut to cut)	2s	2s	2s
<b>其它</b>			
机床防护罩 Machine protection shield	全封闭	全封闭	全封闭
机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L × W × H)	2280 × 1880 × 2100mm	2400 × 2110 × 2800mm	2900 × 2350 × 2900 mm
机床重量 Net weight	4500kg	5000kg	7000kg
<b>选配</b>			
系统选配 CNC system is optional	●	●	●
主轴选配 Spindle is optional	●	●	●
主轴油冷润滑选配 Spindle oil cooling lubrication is optional	●	●	●
伺服主电机选配 Spindle servo motor is optional	●	●	●
ZF变速箱选配 ZF gear transmission is optional	○	●	●
第四轴、第五轴选配 The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional	○	●	●
雷尼绍测量选配 Renishaw measuring is optional	●	●	●
光栅尺选配 Grating ruler is optional	○	○	○
油水分离选配 Oil water separation is optional	●	●	●

注：● 可选配 ○ 不可选配

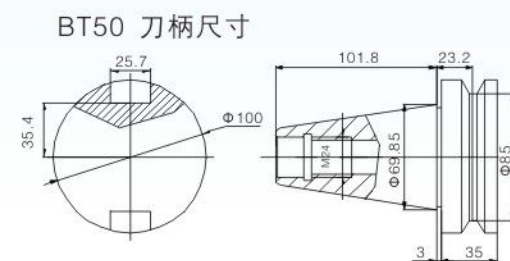
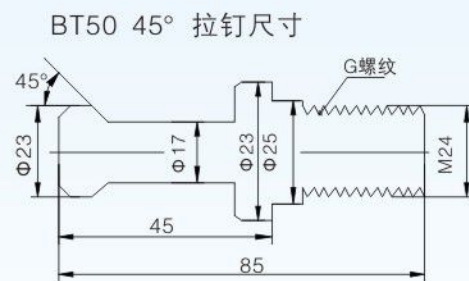
## 立式加工中心 (硬轨) KDVM1370 KDVM1580 KDVM1690 VERTICAL MACHINING CENTER (HARDENED GUIDE WAYS)



### 产品特点: PRODUCT FEATURES

- ◆ 铸件由树脂砂铸造, 经自然时效及两次人工时效处理, 保证机床具有良好的精度稳定性;
- ◆ 采用矩形淬硬导轨, 硬度HRC52以上, 完美的加强结构, 提高机床刚性, 为高精度和重切削建立稳定牢固的基础;
- ◆ 滚珠丝杆采用预拉伸;
- ◆ 配备ZF变速箱。
- ◆ The casting is made of resin-bonded sand, after natural aging and twice artificial aging process; it assured good precision and stability.
- ◆ Hardened box way and perfect reinforcement structure increased the machine's rigidity and assured its high precision and heavy cutting; box ways' hardness is above HRC 52;
- ◆ Pretension ball screws used;
- ◆ Equipped with ZF gear transmission.

### 机床所用常规刀具规格:



### 技术参数: TECHNICAL SPECIFICATIONS

项目ITEMS	KDVM1370	KDVM1580	KDVM1690
<b>行程</b>			
工作台行程 (X) X travel	1300 mm	1500 mm	1600 mm
滑鞍行程 (Y) Y travel	700 mm	800 mm	900 mm
主轴箱行程 (Z) Z travel	650 mm	700 mm	680 mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way	785 mm	800 mm	950 mm
主轴端面到工作台面距离 Distance between spindle end and table	150~800 mm	170~870 mm	160~840 mm
<b>工作台</b>			
工作台尺寸 Table size	1400 × 710 mm	1700 × 800 mm	1800 × 900 mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)	18 × 5 × 152.5 mm	22 × 5 × 135 mm	22 × 5 × 165 mm
工作台最大承重 Max. table load	1000kg	1500kg	1600kg
<b>主轴</b>			
主轴锥孔 Taper bore of Spindle	BT50	BT50	BT50
主轴转速 Spindle speed	6000 rpm	6000 rpm	6000 rpm
主轴电机功率 Main motor power	15/18.5 KW	15/18.5 KW	18.5/22 KW
<b>进给</b>			
X、Y轴快速移动速度 X、Y travel speed	20m/min	20m/min	16m/min
Z轴快速移动速度 Z travel speed	20m/min	20m/min	16m/min
X/Y/Z轴电机扭矩 X、Y、Z Motor torque	22/22/22Nm	22/22/22Nm	22/30/30Nm
X/Y/Z导轨 X/Y/Z axis guide rail	淬硬矩形导轨	淬硬矩形导轨	淬硬矩形导轨
重复定位精度 (X/Y/Z) Repeatability (X/Y/Z)	≤0.008mm	≤0.008mm	≤0.008mm
<b>换刀系统</b>			
刀库容量 Tool number	24把	24把	24把
相邻刀具最大直径 Max. tool size (With adjacent tool)	Φ105mm	Φ105mm	Φ105mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)	Φ220mm	Φ220mm	Φ220mm
刀具最大重量 Max. tool weight	15kg	15kg	15kg
刀具最大长度 Max. tool length	350 mm	350 mm	350 mm
换刀时间 (刀对刀) Tool changing time (cut to cut)	2.5s	2.5s	2.5s
<b>其它</b>			
机床防护罩 Machine protection shield	全封闭	全封闭	全封闭
机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L × W × H)	3500 × 3390 × 2865 mm	4286 × 3110 × 3059 mm	5200 × 3845 × 3175 mm
机床重量 Net weight	12000kg	15000kg	16000kg
<b>选配</b>			
系统选配 CNC system is optional	●	●	●
主轴选配 Spindle is optional	●	●	●
主轴油冷润滑选配 Spindle oil cooling lubrication is optional	●	●	●
伺服主电机选配 Spindle servo motor is optional	●	●	●
第四轴、第五轴选配 The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional	●	●	●
雷尼绍测量选配 Renishaw measuring is optional	●	●	●
光栅尺选配 Grating ruler is optional	○	○	○
油水分离选配 Oil water separation is optional	●	●	●

注: ● 可选配 ○ 不可选配

## 钻攻中心 **KDZ500H** DRILLING&TAPPING CENTER

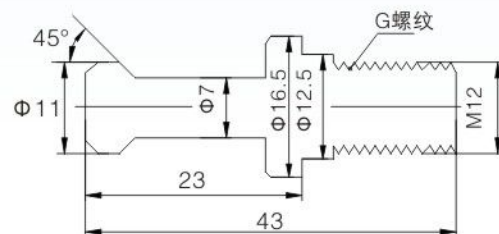


### 产品特点：PRODUCT FEATURES

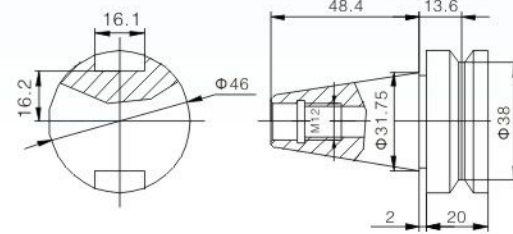
- ◆ X、Y、Z、向均采用精密直线导轨；
- ◆ 采用夹臂式刀库，换刀精准迅速；
- ◆ 进口大螺距丝杠使工作台移动迅捷高效；
- ◆ 具有充足的工件冷却系统。
- ◆ Precision linear guides for X,Y and Z axes.
- ◆ Arm-clipping type magazine with rapid tool change.
- ◆ In ported big pitch ball screw ensures rapid and efficient table movement.
- ◆ Sufficient parts cooling system.

### 机床所用常规刀具规格：

BT30 45° 拉钉尺寸



BT30 刀柄尺寸



### 技术参数：TECHNICAL SPECIFICATIONS

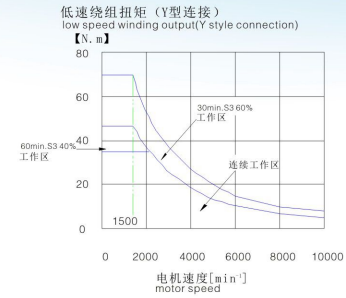
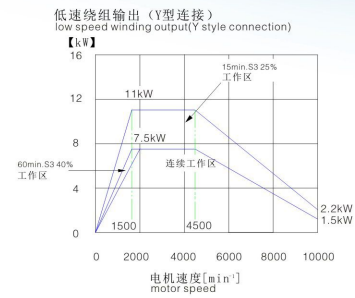
项目ITEMS		KDZ500H
<b>行程</b>		
工作台行程 (X)	X travel	500mm
滑鞍行程 (Y)	Y travel	400mm
主轴箱行程 (Z)	Z travel	300mm
主轴中心线至立柱导轨面距离 Distance between spindle center and column guide way		430 mm
主轴端面到工作面距离 Distance between spindle end and table		150~450mm
<b>工作台</b>		
工作台尺寸	Table size	400 × 650mm
T型槽(宽 × 槽数 × 间距) T-slot (width × number × space)		14 × 3 × 125mm
工作台最大承重	Max. table load	250kg
<b>主轴</b>		
主轴锥孔	Taper bore of Spindle	BT30
主轴转速	Spindle speed	12000rpm
主轴电机功率	Main motor power	3.7/5.5KW
<b>进给</b>		
X、Y轴快速移动速度	X、Y travel speed	0~60m/min
Z轴快速移动速度	Z travel speed	0~60m/min
X/Y/Z轴电机扭矩	X、Y、Z Motor torque	8/8/12Nm
X/Y/Z向导轨	X/Y/Z axis guide rail	精密直线导轨
重复定位精度 (X/Y/Z) Repeatability (X/Y/Z)		≤0.006mm
<b>换刀系统</b>		
刀库容量	Tool number	16
相邻刀具最大直径 Max. tool size (With adjacent tool)		Φ60mm
无相邻刀具最大直径 Max. tool size (Without adjacent tool)		Φ80mm
刀具最大重量	Max. tool weight	3kg
刀具最大长度	Max. tool length	250mm
换刀时间 (刀对刀) Tool changing time (cut to cut)		1.1s
<b>其它</b>		
最小输出单位 (X/Y/Z) Min. Input (X/Y/Z)		0.001 mm
机床外形尺寸 (长 × 宽 × 高) Overall dimensions (L × W × H)		2390 × 1580 × 2380mm
机床重量	Net weight	2500kg
<b>选配</b>		
系统选配	CNC system is optional	●
主轴选配	Spindle is optional	○
主轴油冷润滑选配 Spindle oil cooling lubrication is optional		●
伺服主电机选配	Spindle servo motor is optional	○
ZF变速箱选配 ZF gear transmission is optional		○
第四轴、第五轴选配 The 4 <sup>th</sup> /5 <sup>th</sup> axis is optional		○
雷尼绍测量选配 Renishaw measuring is optional		●
光栅尺选配 Grating ruler is optional		○
油水分离选配 Oil water separation is optional		●

注：● 可选配 ○ 不可选配

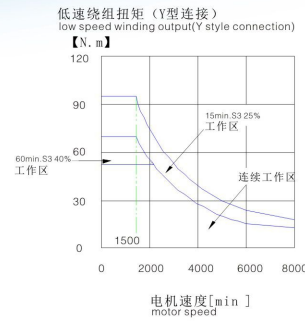
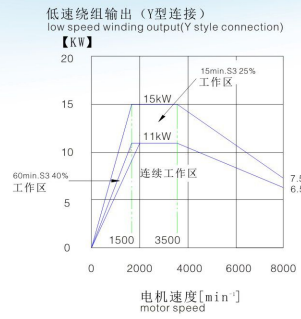
# 电机扭矩图

## Motor torque diagram

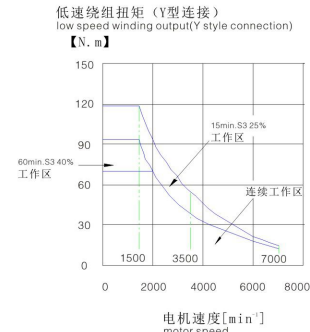
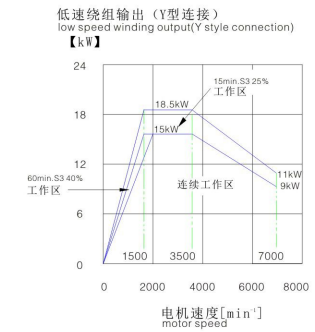
### $\beta$ iI 8/10000



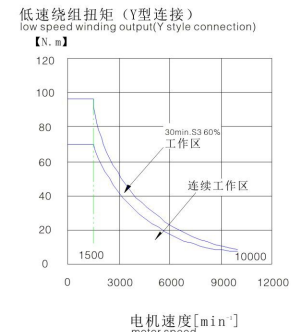
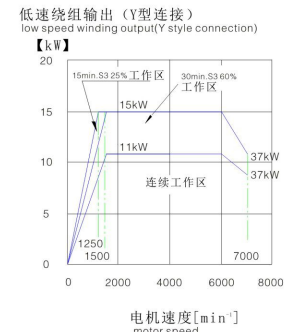
### $\beta$ iI 12/8000



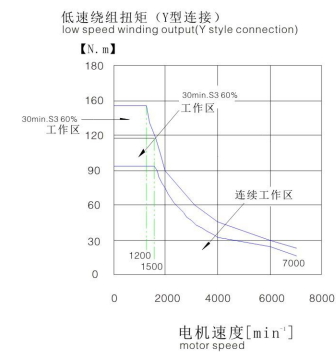
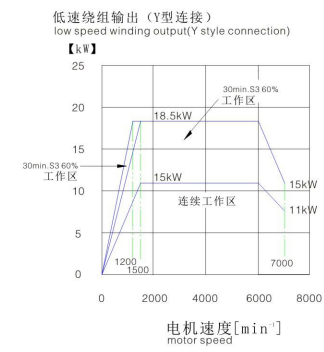
### $\beta$ iI 15/7000



### $\alpha$ iI 12/7000



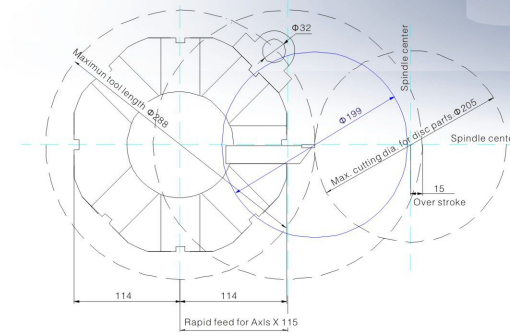
### $\alpha$ iI 15/7000



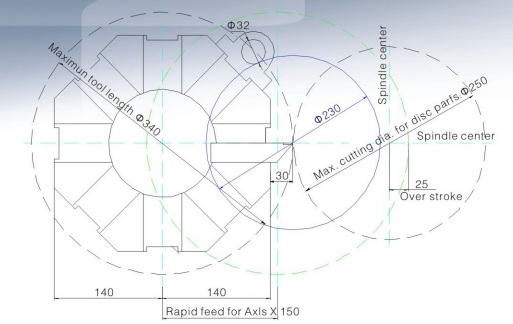
# 刀具干涉图

## Diagram of tool interference

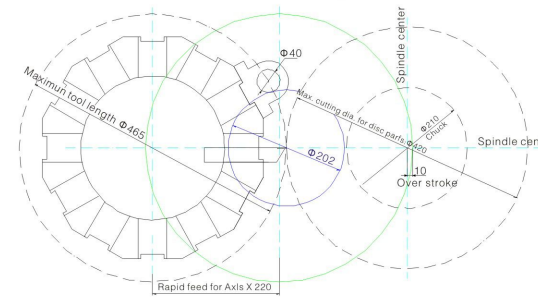
KDCL-10  
型号Model: LS-120 (六鑫)



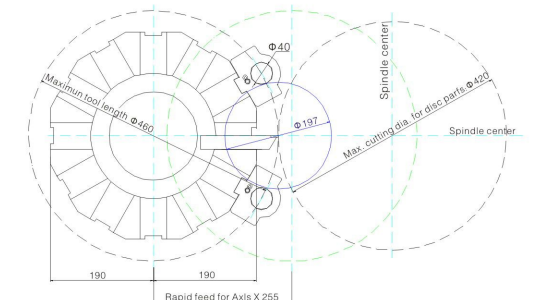
KDCL-15  
型号Model: LS-160A (六鑫)



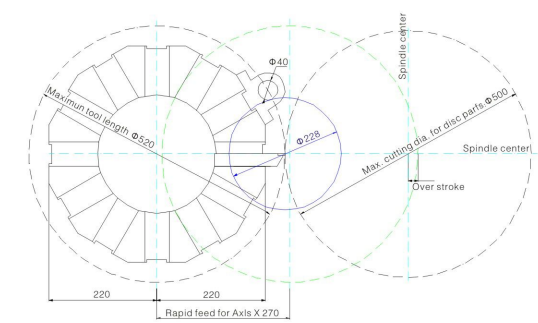
KDCL-25  
型号Model: LS-200 (六鑫)



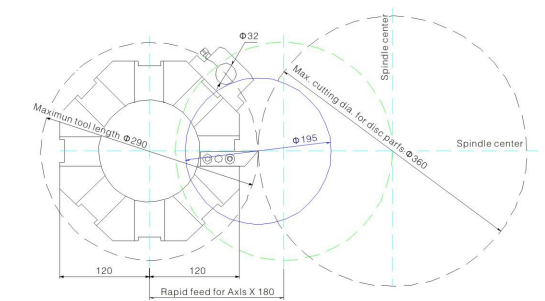
KDCL-28  
型号Model: C20.380.25.12 (肖特)



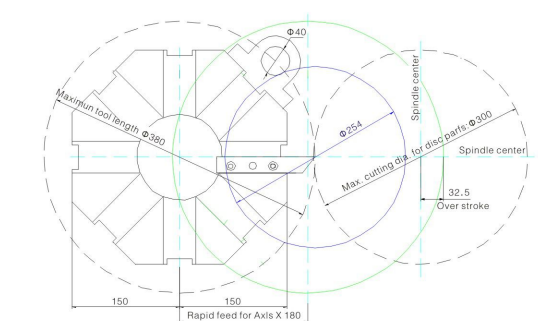
KDCL-30  
型号Model: LS-250H (六鑫)



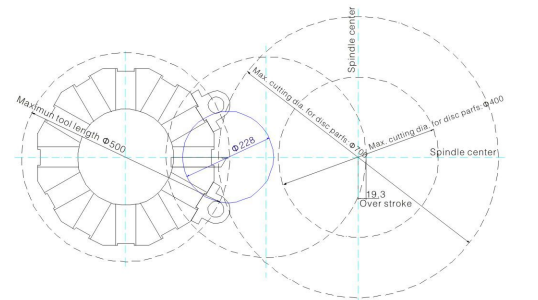
KDCK-20C  
型号Model: LS-160A (六鑫)



KDCK-25  
型号Model: LS-240H (六鑫)



KDCK-40  
型号Model: LS-250H (六鑫)



# 全功能数控车床/车削中心 KDCK-25H KDCK-40H

## FULL FUNCTIONAL CNC LATHE/TURNING CENTER



### 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
  - ◆ 平床身斜滑鞍结构，整机刚性高，排屑性能好；
  - ◆ X、Z轴均采用精密直线滚动导轨，无间隙传动，刚性好、精度高；
  - ◆ 采用肖特带动力的伺服刀架，具有钻、铣、攻丝功能；
  - ◆ 主轴采用日本sunter液压直动夹钳锁紧，零后冲、夹持力大、安全、可靠；
  - ◆ 自动集中润滑，润滑充分、可靠；
  - ◆ 机床全封闭设计，造型美观大方；
- 
- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
  - ◆ Flat bed and slant slide structure, with high rigidity and fluent chip removal.
  - ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
  - ◆ The machine adopts sauter electric turret with the functions of drilling, milling and tapping.
  - ◆ The spindle adopts Japanese Sunter hydraulic direct acting clamp with zero recoiling, large clamping force, safety and reliability.
  - ◆ Automatic centralized lubrication with full sufficiency and reliability.
  - ◆ Full protection design with nice shape.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCK-25H	KDCK-40H
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ500 mm	Φ750 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ280 mm	Φ650 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ250 mm	Φ350 mm
	轴类最大切削长度 Max. cutting length for axle parts	400 mm	820 mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ63 mm	Φ105 mm
	主轴头部尺寸 Spindle nose	A <sub>2</sub> -6	Φ220 mm直台
	主轴转速 Spindle speed	5000r/min	100-2000r/min
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	180 mm	350 mm
	纵向最大行程(Z轴) Max. travel of Axis Z	500 mm	1000 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min	12 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min	20 m/min
刀架 Turret	刀架工位数 Tool post stations	12工位 12-ways	12工位 12-ways
	动力刀具伺服电机功率 Live tool serve motor power	2.2/3.7 kW	3.7/5.5 kW
	动力刀具最高转速 Maximum speed of live tool	5000rpm	4000rpm
	标准外径刀尺寸 Outside dia. Cutting tool shank	25 × 25 mm	25 × 25 mm
	内孔刀杆尺寸(最大直径) Max. inner dia. Cutting tool shank	Φ40 mm	Φ40 mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ80 mm	Φ100 mm
	尾架套筒行程 Max. travel of tailstock sleeve	115 mm	200 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	MT.No.6
其它 Other	主电机功率 Power of main motor	7.5/11 KW	15/18.5 KW
	床身结构 The bed structure	30° 斜床鞍 Slant slide	30° 斜床鞍 Slant slide
	最小输入单位 Min. input	0.001mm	0.001mm
	重复定位精度 Repeatability	≤0.006mm	≤0.006mm
	液压卡盘规格 Chuck dia	8"	12"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	1950 × 1650 × 1680mm	3375 × 2250 × 1965mm
	机床净重 Net weight	3400 kg	5400 kg
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	测量 Measure	●	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可选配  
○ 不可选配

# 全功能数控车床/车削中心 **KDCL-25H** **KDCL-28H** FULL FUNCTIONAL CNC LATHE/TURNING CENTER **KDCL-30H**



## 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
  - ◆ X、Z轴均采用精密直线滚动导轨，无间隙传动，刚性好、精度高；
  - ◆ 采用肖特带动力的伺服刀架，具有钻、铣、攻丝功能；
  - ◆ 主轴采用日本sunter液压直动夹钳锁紧，零后冲、夹持力大、安全、可靠；
  - ◆ 自动集中润滑，润滑充分、可靠；
  - ◆ 机床全封闭设计，造型美观大方；
- 
- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
  - ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
  - ◆ The machine adopts sauter electric turret with the functions of drilling, milling and tapping.
  - ◆ The spindle adopts Japanese Sunter hydraulic direct acting clamp with zero recoiling, large clamping force, safety and reliability.
  - ◆ Automatic centralized lubrication with full sufficiency and reliability.
  - ◆ Full protection design with nice shape.

## 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCL-25H	KDCL-28H	KDCL-30H
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ500 mm	Φ520 mm	Φ650 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ370 mm	Φ370 mm	Φ500 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ250 mm	Φ250 mm	Φ320 mm
	轴类最大切削长度 Max. cutting length for axle parts	420 mm	420 mm	900 mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ65 mm	Φ65 mm	Φ90 mm
	主轴头部尺寸 Spindle nose	A <sub>1</sub> -6	A <sub>1</sub> -6	A <sub>1</sub> -8
	主轴转速 Spindle speed	4000r/min 5000r/min (套筒)	4000r/min 5000r/min (套筒)	2500r/min
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	220 mm	255 mm	270 mm
	纵向最大行程(Z轴) Max. travel of Axis Z	500 mm	540 mm	1060 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min	30 m/min	16 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min	30 m/min	20 m/min
刀架 Turret	刀架工位数 Tool post stations	12工位 12-ways	12工位 12-ways	12工位 12-ways
	动力刀具伺服电机功率 Live tool serve motor power	2.2/3.7 KW	2.2/3.7 KW	5.5/7.5 KW
	动力刀具最高转速 Maximum speed of live tool	5000 r/min	5000 r/min	4000 r/min
	标准外径刀尺寸 Outside dia. Cutting tool shank	20 × 20 mm	20 × 20 mm	32 × 32 mm
	内孔刀杆尺寸(最大直径) Max. inner dia. Cutting tool shank	Φ32 mm	Φ32 mm	Φ50 mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ80 mm	Φ80 mm	Φ100 mm
	尾架套筒行程 Max. travel of tailstock sleeve	100 mm	100 mm	200 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	MT.No.4	MT.No.6
其它 Other	主电机功率 Power of main motor	15/18.5 KW	15/18.5 KW	18.5/22 KW
	床身结构 The bed structure	45° 斜床身 Slant bed	45° 斜床身 Slant bed	45° 斜床身 Slant bed
	最小输入单位 Min. input	0.001mm	0.001mm	0.001mm
	重复定位精度 Repeatability	≤0.006mm	≤0.006mm	≤0.006mm
	液压卡盘规格 Chuck dia	8"	8"	12"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	3712×1660×1850mm	4500×1850×2000mm	4250×1980×2260mm
	机床净重 Net weight	4000 kg	4300 kg	7000 kg
	其它			
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	●	●
	测量 Measure	●	●	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：●可选配 ○不可选配

# 全功能数控车床 **KDCK-20C**

## FULL FUNCTIONAL CNC LATHE



### 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
- ◆ 平床身斜滑板结构，整机刚性高，排屑性能好；
- ◆ X、Z轴均采用精密滚动直线导轨，无间隙传动，刚性好、精度高；
- ◆ 主轴为高速高刚性结构，无级变速，可实现恒线速切削和高速切削；
- ◆ 自动集中式润滑，方便可靠；
- ◆ 全防护设计，造型美观，操作维修方便；

- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
- ◆ Flat bed and slant slide structure, with high rigidity and fluent chip removal.
- ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- ◆ The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
- ◆ Automatic centralized lubrication with full sufficiency and reliability.
- ◆ Full protection design, beautiful appearance and convenient operation and maintenance.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCK-20C
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ410 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ360 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ200 mm
	轴类最大切削长度 Max. cutting length for axle parts	360mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ56 mm
	主轴头部尺寸 Spindle nose	A <sub>2</sub> -5
	主轴转速 Spindle speed	3000r/min
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	180mm
	纵向最大行程(Z轴) Max. travel of Axis Z	420 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min
刀架 Turret	刀架工位数 Tool post stations	8工位 8-ways
	标准外径刀尺寸 Outside dia. Cutting tool shank	25 × 25 mm
	内孔刀杆尺寸(最大直径) Max. inner dia. Cutting tool shank	Φ32 mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ63 mm
	尾架套筒行程 Max. travel of tailstock sleeve	100 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4
其它 Other	主电机功率 Power of main motor	7.5/11 KW
	床身结构 The bed structure	60° 斜床鞍 Slant slide
	最小输入单位 Min. input	0.001mm
	重复定位精度 Repeatability	≤0.006mm
	液压卡盘规格 Chuck dia	8"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	2435 × 1270 × 1660mm
机床净重 Net weight	2700 kg	
选配 Optional	系统 CNC system	●
	刀架 Tool post	●
	卡盘 Chuck	●
	主轴 Spindle	○
	尾架 Tailstock	●
	测量 Measure	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

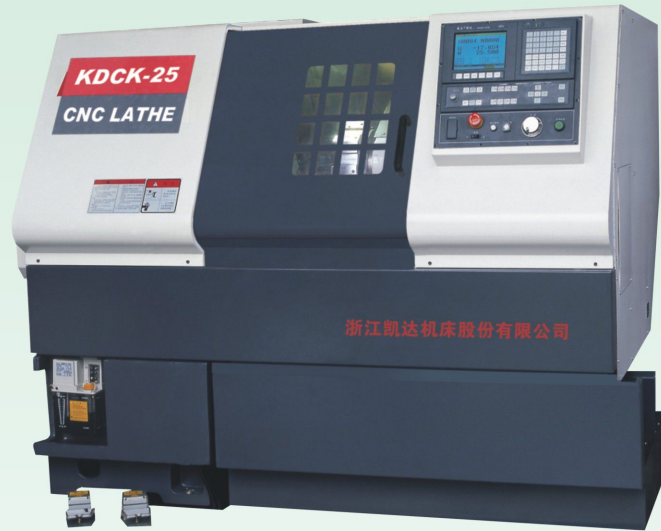
以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可选配  
○ 不可选配



# 全功能数控车床 **KDCK-25 KDCK-40**

## FULL FUNCTIONAL CNC LATHE



### 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
  - ◆ 平床身斜滑板结构，整机刚性高，排屑性能好；
  - ◆ X、Z轴均采用精密滚动直线导轨，无间隙传动，刚性好、精度高；
  - ◆ 主轴为高速高刚性结构，无级变速，可实现恒线速切削和高速切削；
  - ◆ 自动集中式润滑，方便可靠；
  - ◆ 全防护设计，造型美观，操作维修方便；
- 
- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
  - ◆ Flat bed and slant slide structure, with high rigidity and fluent chip removal.
  - ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
  - ◆ The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
  - ◆ Automatic centralized lubrication with full sufficiency and reliability.
  - ◆ Full protection design, beautiful appearance and convenient operation and maintenance.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCK-25	KDCK-40
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ500 mm	Φ750 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ300 mm	Φ700 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ250 mm	Φ350 mm
	轴类最大切削长度 Max. cutting length for axle parts	420 mm	870 mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ62 mm	Φ105 mm
	主轴头部尺寸 Spindle nose	Φ170 mm直台	Φ220 mm直台
	主轴转速 Spindle speed	3000r/min	100-2000r/min
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	180 mm	350 mm
	纵向最大行程(Z轴) Max. travel of Axis Z	500 mm	1050 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min	12 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min	30 m/min
刀架 Turret	刀架工位数 Tool post stations	8工位 8-ways	12工位 12-ways
	标准外径刀尺寸 Outside dia. Cutting tool shank	25 × 25 mm	25 × 25 mm
	内孔刀杆尺寸(最大直径) Taper of tailstock sleeve	Φ40 mm	Φ40 mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ63 mm	Φ100 mm
	尾架套筒行程 Max. travel of tailstock sleeve	115 mm	210 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	MT.No.6
其它 Other	主电机功率 Power of main motor	7.5/11 KW	15/18.5 KW
	床身结构 The bed structure	30° 斜床鞍 Slant slide	30° 斜床鞍 Slant slide
	最小输入单位 Min. input	0.001mm	0.001mm
	重复定位精度 Repeatability	≤0.006mm	≤0.006mm
	液压卡盘规格 Chuck dia	8"	12"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	1950 × 1650 × 1680mm	3375 × 2250 × 1965mm
	机床净重 Net weight	3400 kg	5400 kg
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	●	○
	尾架 Tailstock	●	●
	测量 Measure	●	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：●可选配  
○不可选配

# 全功能数控车床/车削中心 KDCL-10H KDCL-15H

## FULL FUNCTIONAL CNC LATHE/TURNING CENTER



### 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
- ◆ 45°整体斜床身结构，整机刚性高，排屑性能好；
- ◆ X、Z轴均采用精密直线滚动导轨，无间隙传动，刚性好、精度高；
- ◆ 采用肖特带动力的伺服刀架，具有钻、铣、攻丝功能；
- ◆ 主轴采用日本sunter液压直动夹钳锁紧，零后冲、夹持力大、安全、可靠；
- ◆ 自动集中润滑，润滑充分、可靠；
- ◆ 机床全封闭设计，造型美观大方；
- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
- ◆ The machine has 45° integrated slant bed with high rigidity and fluent chip removal.
- ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- ◆ The machine adopts sauter electric turret with the functions of drilling, milling and tapping.
- ◆ The spindle adopts Japanese Sunter hydraulic direct acting clamp with zero recoiling, large clamping force, safety and reliability.
- ◆ Automatic centralized lubrication with full sufficiency and reliability.
- ◆ Full protection design with nice shape.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCL-10H	KDCL-15H
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ330 mm	Φ360 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ110 mm	Φ250 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ110 mm	Φ140 mm
	轴类最大切削长度 Max. cutting length for axle parts	270mm	280 mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ38 mm	Φ56 mm
	主轴头部尺寸 Spindle nose	A <sub>2</sub> -4	A <sub>2</sub> -5
	主轴转速 Spindle speed	6000 r/min	6000 r/min
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	115 mm	140 mm
	纵向最大行程(Z轴) Max. travel of Axis Z	310 mm	320 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min	12 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min	20 m/min
刀架 Turret	刀架工位数 Tool post stations	8工位 8-ways	8工位 8-ways
	动力刀具伺服电机功率 Live tool serve motor power	2.2/3.7 KW	2.2/3.7 KW
	动力刀具最高转速 Maximum speed of live tool	6000 r/min	6000 r/min
	标准外径刀尺寸 Outside dia. Cutting tool shank	16 × 16 mm	20 × 20 mm
	内孔刀杆尺寸(最大直径) Max. inner dia. Cutting tool shank	Φ25 mm	Φ32 mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ63 mm	Φ80 mm
	尾架套筒行程 Max. travel of tailstock sleeve	100 mm	90 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.3	MT.No.3
其它 Other	主电机功率 Power of main motor	3.7/5.5 KW	7.5/11 KW
	床身结构 The bed structure	45° 斜床身 Slant bed	45° 斜床身 Slant bed
	最小输入单位 Min. input	0.001mm	0.001mm
	重复定位精度 Repeatability	≤0.006mm	≤0.006mm
	液压卡盘规格 Chuck dia	6"	6"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	3115×1525×1685mm	2700×1460×1680mm
	机床净重 Net weight	2500 kg	3000 kg
选配 Optional	系统 CNC system	●	●
	刀架 Tool post	●	●
	卡盘 Chuck	●	●
	主轴 Spindle	○	○
	尾架 Tailstock	●	●
	测量 Measure	●	●

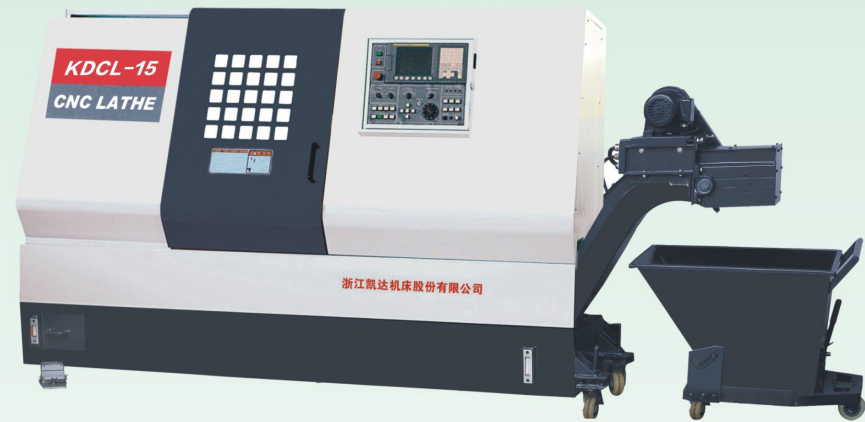
注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可选配  
○ 不可选配

# 全功能数控车床 KDCL-10 KDCL-10P KDCL-15

## FULL FUNCTIONAL CNC LATHE



### 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
  - ◆ 45° 整体斜床身结构，整机刚性高，排屑性能好；
  - ◆ X、Z轴均采用精密直线滚动导轨，无间隙传动，刚性好、精度高；
  - ◆ 主轴单元为高速高刚性结构，无级变速，可实现恒线速切削和高速切削；
  - ◆ 全防护设计，造型美观，操作维修方便；
- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
  - ◆ The machine has 45° integrated slant bed with high rigidity and fluent chip removal.
  - ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
  - ◆ The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
  - ◆ Full protection design, beautiful appearance and convenient operation and maintenance.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCL-10	KDCL-10P	KDCL-15
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ330 mm	Φ320 mm	Φ360 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ200 mm	Φ320 mm	Φ250 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ120 mm	Φ110 mm	Φ150 mm
	轴类最大切削长度 Max. cutting length for axle parts	300 mm	300 mm	300 mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ38 mm	Φ46 mm	Φ56 mm
	主轴头部尺寸 Spindle nose	A <sub>c</sub> -4	A <sub>c</sub> -4	A <sub>c</sub> -5
	主轴转速 Spindle speed	6000 r/min	6000 r/min	6000r/min (套筒)
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	115 mm	380 mm	150 mm
	纵向最大行程(Z轴) Max. travel of Axis Z	310 mm	330 mm	320 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min	12 m/min	12 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min	20 m/min	20 m/min
刀架 Turret	刀架工位数 Tool post stations	8工位 8-ways	排刀 Gang tons	8工位 8-ways
	标准外径刀尺寸 Outside dia. Cutting tool shank	20 × 20 mm	20 × 20 mm	25 × 25 mm
	内孔刀杆尺寸(最大直径) Max. inner dia. Cutting tool shank	Φ25 mm	Φ25 mm	Φ32mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ63 mm		Φ80 mm
	尾架套筒行程 Max. travel of tailstock sleeve	100 mm		90 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.3		MT.No.4
其它 Other	主电机功率 Power of main motor	3.7/5.5 KW	5.5/7.5KW	7.5/11 KW
	床身结构 The bed structure	45° 斜床身 Slant bed	45° 斜床身 Slant bed	45° 斜床身 Slant bed
	最小输入单位 Min. input	0.001mm	0.001mm	0.001mm
	重复定位精度 Repeatability	≤0.006mm	≤0.006mm	≤0.006mm
	液压卡盘规格 Chuck dia	6"	6"	6"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	3115 × 1525 × 1685mm	1930 × 1600 × 1760mm	2700 × 1460 × 1680mm
	机床净重 Net weight	2500 kg	2400 kg	3000 kg
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	○	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	○	○	○
	尾架 Tailstock	●	○	●
	测量 Measure	●	●	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
All specifications are subject to our final confirmation.

注：● 可选配  
○ 不可选配

# 全功能数控车床 KDCL-25 KDCL-28 KDCL-30

## FULL FUNCTIONAL CNC LATHE



### 产品特点：PRODUCT FEATURES

- ◆ 采用的数控系统，功能齐全，性能可靠；机电液一体化设计，结构紧凑；
  - ◆ 45° 整体斜床身结构，整机刚性高，排屑性能好；
  - ◆ X、Z轴均采用精密直线滚动导轨，无间隙传动，刚性好、精度高；
  - ◆ 主轴单元为高速高刚性结构，无级变速，可实现恒线速切削和高速切削；
  - ◆ 全防护设计，造型美观，操作维修方便；
- ◆ The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical, electronic and hydraulic integration method with a compact structure.
  - ◆ The machine has 45° integrated slant bed with high rigidity and fluent chip removal.
  - ◆ X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
  - ◆ The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
  - ◆ Full protection design, beautiful appearance and convenient operation and maintenance.

### 技术参数：TECHNICAL SPECIFICATIONS

项目ITEMS		KDCL-25	KDCL-28	KDCL-30
加工 Machining	床身上最大回转直径 Max. swing over bed	Φ500 mm	Φ520 mm	Φ650 mm
	盘类最大切削直径 Max. cutting dia. for disc parts	Φ420 mm	Φ420 mm	Φ500 mm
	轴类最大切削直径 Max. cutting dia. for axle parts	Φ250 mm	Φ250 mm	Φ320 mm
	轴类最大切削长度 Max. cutting length for axle parts	500 mm	500 mm	1000 mm
主轴 Spindle	主轴通孔直径 Spindle bore	Φ65 mm	Φ65 mm	Φ90 mm
	主轴头部尺寸 Spindle nose	A <sub>6</sub> -6	A <sub>6</sub> -6	A <sub>8</sub> -8
	主轴转速 Spindle speed	4000r/min 5000r/min (套筒)	4000r/min 5000r/min (套筒)	2500r/min
行程 Travel	横向最大行程(X轴) Max. travel of Axis X	220 mm	255 mm	270 mm
	纵向最大行程(Z轴) Max. travel of Axis Z	550 mm	600 mm	1060 mm
进给 Feed	快速进给(X) Rapid feed for Axis X	12 m/min	30 m/min	16 m/min
	快速进给(Z) Rapid feed for Axis Z	20 m/min	30 m/min	20 m/min
刀架 Turret	刀架工位数 Tool post stations	12工位 12-ways	12工位 12-ways	12工位 12-ways
	标准外径刀尺寸 Outside dia. Cutting tool shank	25 × 25 mm	25 × 25 mm	25 × 25 mm
	内孔刀杆尺寸(最大直径) Max. inner dia. Cutting tool shank	Φ40 mm	Φ40 mm	Φ40 mm
尾架 Tailstock	尾架套筒直径 External diameter of tailstock sleeve	Φ80 mm	Φ80 mm	Φ100 mm
	尾架套筒行程 Max. travel of tailstock sleeve	100 mm	120 mm	200 mm
	尾架套筒内孔锥度 Taper of tailstock sleeve	MT.No.4	MT.No.4	MT.No.6
其它 Other	主电机功率 Power of main motor	11/15 KW	11/15 KW	18.5/22 KW
	床身结构 The bed structure	45° 斜床身 Slant bed	45° 斜床身 Slant bed	45° 斜床身 Slant bed
	最小输入单位 Min. input	0.001mm	0.001mm	0.001mm
	重复定位精度 Repeatability	≤0.006mm	≤0.006mm	≤0.006mm
	液压卡盘规格 Chuck dia	8"	8"	12"
	机床外形尺寸(长×宽×高) Overall dimensions (L×W×H)	3712 × 1660 × 1850mm	4500 × 1850 × 2000mm	4250 × 1980 × 2260mm
	机床净重 Net weight	4000 kg	4300 kg	7000 kg
选配 Optional	系统 CNC system	●	●	●
	刀架 Tool post	●	●	●
	卡盘 Chuck	●	●	●
	主轴 Spindle	●	●	○
	尾架 Tailstock	●	●	●
	测量 Measure	●	●	●

注：以上参数可以按客户的需求进行更改设计。  
Above specifications can be customized against clients' request.

以上参数仅供参考，随产品发展的需要会进行设计更改，更改后恕不另行通知。  
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# 浙江凯达机床股份有限公司 Zhejiang Kaida Machine Tool Co., Ltd

## 全功能数控车床/车削中心 FULL FUNCTIONAL CNC LATHE/TURNING CENTER



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# CONTENTS

## 目录

1	选配配置介绍 Introduction of optional configuration	2
2	结构介绍 Introduction of machine construction	3
3	KDCL、KDCK系列结构特点 Features of KDCL、KDCK series machines	5
4	切削性能 Machining Performance	6
5	电机扭矩图 Motor torque diagram	7
6	刀具干涉图 Diagram of tool interference	8
7	产品介绍 Products introduction	
	全功能数控车床 Full functional CNC lathe	
	◆ KDCL-10 KDCL-10P KDCL-15	9
	◆ KDCL-25 KDCL-28 KDCL-30	11
	全功能数控车床/车削中心 Full functional CNC lathe/turning center	
	◆ KDCL-10H KDCL-15H	13
	◆ KDCL-25H KDCL-28H KDCL-30H	15
	全功能数控车床 Full functional CNC lathe	
	◆ KDCK-20C	17
	◆ KDCK-25 KDCK-40	19
	全功能数控车床/车削中心 Full functional CNC lathe/turning center	
	◆ KDCK-25H KDCK-40H	21

## 选配配置介绍

### Introduction of optional configuration

#### ◆ 系统 CNC system

机床标准配置为FANUC系统，根据客户需求可选配国内外各类系统。

FANUC system is standard. Both local and foreign brands control systems can be adopted according to customer's requirement.



#### ◆ 卡盘 Chuck

标准配置中实液压卡盘，可选配中空液压卡盘。

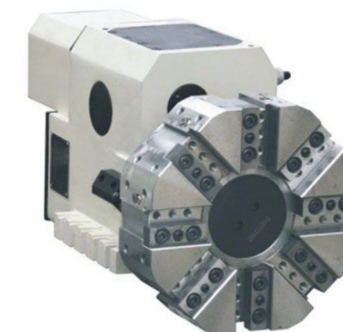
Hydraulic solid chuck is standard. Hydraulic hollowed chuck is optional.



#### ◆ 刀架 Turret

液压刀架、伺服刀架、动力刀架，一共三种类型刀架可供客户选择。

Hydraulic, servo, or electric tool post can be selected according to customer's requirement.



#### ◆ 尾架 Tailstock

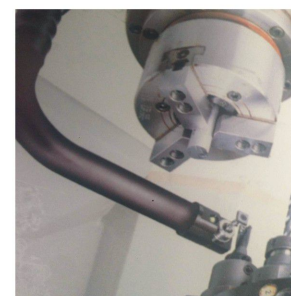
根据客户需求可选配液压尾架和可编程尾架。

According to customer's requests, hydraulic and programmable tailstocks are optional.



#### ◆ 测量 Measuring instrument

可选配雷尼绍对刀仪。  
Renishaw tool setter is optional.



#### ◆ 主轴 Spindle

根据客户需求可选配套筒主轴、电主轴。  
Sleeve spindle and electric spindle can be selected according to customer's requirement.



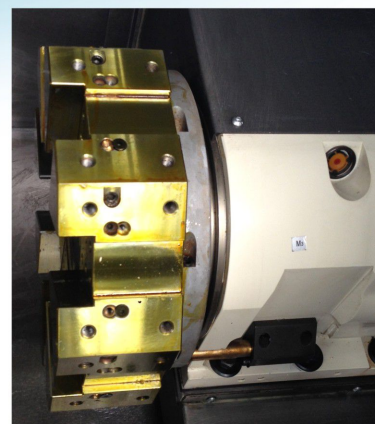
# 结构介绍

## Introduction of machine construction



◆ 传动：机床采用伺服电机和精密滚珠丝杠直连的方式传动，在实现高刚性、高速性、高耐久性的同时提高了机床扭矩，保证了重复高速定位精度，从而带来长期高可靠地加工和免维护运行；

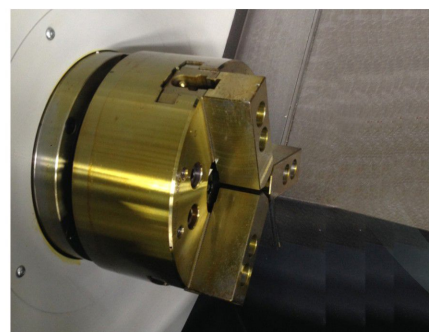
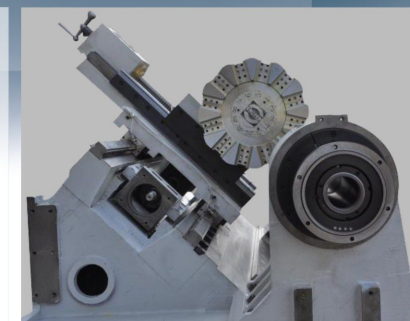
**Transmission** : The machine transmission is effected by direct connection between a servo motor and a precision ball screw. In this way, high rigidity, high speed and durability is realized, machine torque increased and high speed repeated positioning accuracy ensured. The machine can realize long term reliable cutting without any maintenance.



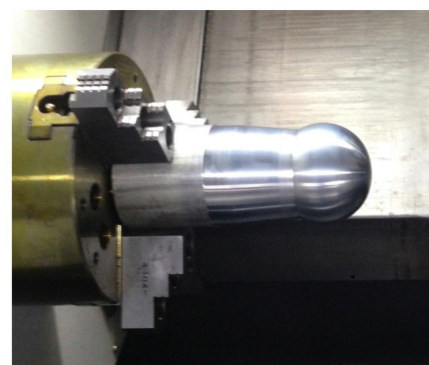
◆ 多工位刀架；  
Multiple station cutter

◆ 结构：机械主体主要采用斜床身式结构，用高强度优质铸铁，树脂砂生产线铸造，经多次自然和人工时效处理，从而保证了机床具有良好的稳定性、刚性和精度保持性。

**Construction**: The mechanical main body of the machine is of a slant bed construction. It is made of high strength superior cast iron produced by resin sand production line. After several times of natural and artificial aging, it ensures the machine with good stability, high rigidity and accuracy retention.



◆ 液压三爪卡盘；  
Three jaw hydraulic chuck



◆ 加工：数字化控制，利用稳定的结构和精密的切削进给来满足工件的精度需求；

**Machining**: High precision workpieces are ensured by digital control, stable structure and accurate feeding.



◆ 自动排屑器；  
Automatic chip conveyor



◆ 液压尾架；  
Hydraulic tailstock

# KDCL、KDCK系列结构特点

## Features of KDCL、KDCK series machines

**KDCL系列结构特点:**  
Characteristics of KDCL series machines:

**床身结构:**  
Bed structure :

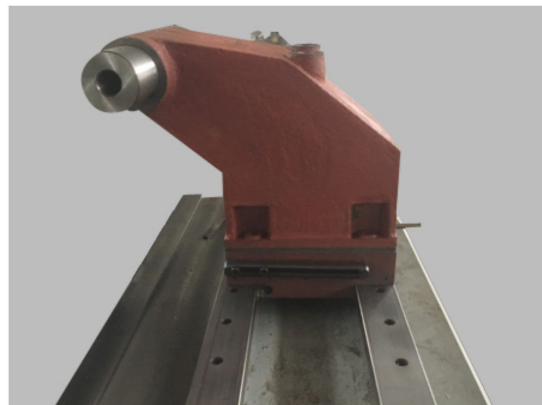
KDCL系列采用45°整体斜床身结构。导轨、丝杠固定在斜三角床身斜面上，通过滑块与滑板连接来带动刀塔做Z向进给运动。

KDCL machines adopt 45° slant triangular and integrated bed stand. Guide rails and lead screws are fixed to the triangular bed surface. Z axis movement is realized by sliding blocks connected to the slide.



**尾架:**  
Tailstock :

尾架体与矩形导轨相连。  
Tailstock body is connected to the rectangular guide.

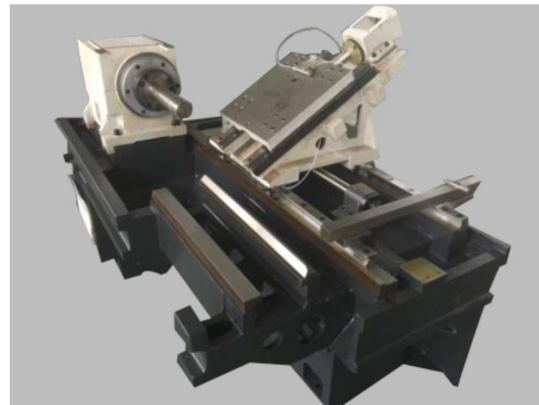


**KDCK系列结构特点:**  
Characteristics of KDCK series machines:

**床身结构:**  
Bed structure :

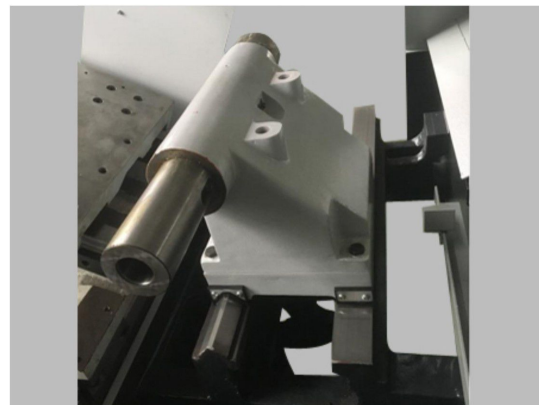
KDCK系列采用平床身斜滑鞍结构。通过滑块与三角形滑鞍来带动刀塔做Z向进给运动。

KDCK series machines adopt flat bed structure and slant slide. Z axis movement is realized by sliding blocks connected to the triangular slide.



**尾架:**  
Tailstock :

尾架体与V形导轨相连。  
Tailstock body is connected to the V guide.

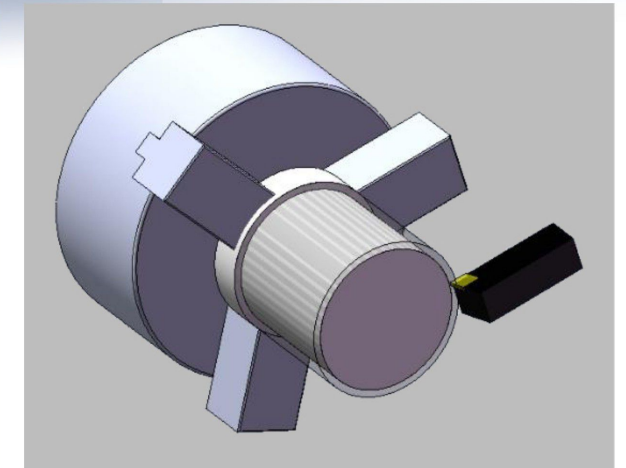


# 切削性能

## Machining Performance

**粗加工:**  
Rough machining

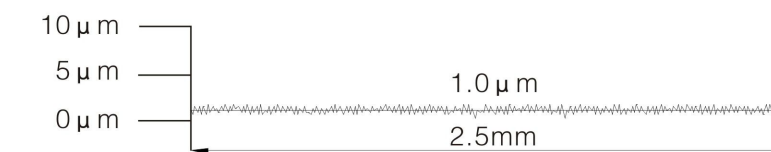
切削条件 Cutting condition	
主轴转速 Spindle speed	700rpm
切削速度 Cutting speed	220m/min
切削深度 Depth of cut	5mm
进给速度 Feedrate	105mm/min ( 0.15ipr )
材料 Material	45 ( 钢 steel )
外径 Outer diameter	Φ 100mm
主电机功率 Power of main motor	7.5KW



**精密加工:**  
Precision machining

切削条件 Cutting condition		
工具 Tool	硬质合金刀具 Cemented carbide cutting tools	
材料 Material	铝 ( AL )	
切削速度 Cutting speed	300m/min	
切削深度 Depth of cut	0.2mm	
主轴转速 Spindle speed	1000rpm	
进给速度 Feedrate	80mm/min ( 0.08ipr )	
外径 Outer diameter	Φ 100mm	

**表面粗糙度 Surface roughness**



**圆度 Roundness**

