

## 济南鼎诺机械有限公司

JINAN DINGNUO MACHINERY CO., LTD

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## 企业简介 ENTERPRISE INTRODUCTION

济南鼎诺机械有限公司是国内中大型机床产品的专业生产厂家，前身为山东沂水机床厂，始建于1952年，原国家机械工业部管螺纹车床定点生产企业。于2013年改制为山东沂水机床厂有限公司。

公司坐落于风景秀丽的全国旅游标准化示范城市，被誉为“千年古县”的山东省沂水县境内，工厂厂区占地约300亩，建筑面积15万平方米，企业职工300余人，其中中级以上职称的工程技术人员50余人，公司资产总额逾6亿元。企业已先后通过ISO9001质量管理体系认证和ISO14001环境管理体系认证，拥有自营进出口权，并拥有多项国家专利，连续多年被政府单位评为明星企业，并被机床工具协会评选为行业综合经济效益十佳企业。

公司配备有门类齐全的铸造、锻造、机械加工、热处理等专业生产设备500余台套，主要产品为管子螺纹车床、数控管子螺纹车床、普通卧式车床、数控车床、数控车削中心、立式及卧式加工中心等。年产能1000余台套；产品畅销全国各地，并远销美国、德国、俄罗斯、澳大利亚和新加坡等30多个国家和地区，广泛应用于世界各国的石油开采、地质勘探、矿产开采、化工冶炼、管道建设、机械制造和船舶建造等行业。

我们将始终秉承“精益求精，铸造品牌”的经营理念，坚持“质量为本，诚信共赢”的合作原则，竭诚为广大客户提供更优质的产品和更周到的服务。期待与您精诚合作，共创美好的明天！

JINAN DINGNUO MACHINERY CO., LTD is the professional manufacturer of machine tools established since 1952. Located in Yishui county of Shandong province, our factory covers an area about 20 hectares with the construction area over 100,000 square meters, there are about 300 employees and the total asset is above 100 million dollars, the factory has been certified by ISO9001 and ISO14001 system, and was awarded as Top Ten Enterprise in Management by Machine Tool Association of China.

The factory has more than 260 sets advanced machining equipment such as GRU28×60 gantry machining center, TH65100×100B double work bench horizontal machining center and MM52160×8000 guide way grinding machine, and applies advanced testing equipment including Renishaw laser interferometer etc.

The main products are conventional engine lathe, CNC Lathe, pipe threading lathe, CNC pipe threading lathe and CNC turning center, with annual production capacity more than 1000 sets. Our products are widely used in industries world widely including petroleum exploiting, geological prospecting, mining, chemical industry, pipeline network construction, machinery and ship building etc.

精益求精 铸造品牌

STRIVE FOR EXCELLENCE CREATE FAMOUS BRAND





## ADVANCED EQUIPMENTS

JINAN DINGNUO MACHINERY CO., LTD

鼎诺机床拥有先进的生产设备包括卧式铣床中心、五面体加工中心、数控磨齿机、超音速淬火机床、精密导轨磨床等，同时配有球杆仪、激光干涉仪、三坐标测量仪和金相检测仪等检测设备。

Dingnuo Machine Tool has complete set of manufacturing equipment including Horizontal Machining Center, Gantry Vertical Machining Center, CNC Gear Grinding Machine, High Frequency Quenching Machine, CNC Precision Guide-way Grinding Machine etc., and equipped with advanced testing equipment such as Renishaw Double Ball Bar and Laser Interferometer, Three-coordinate Measuring Machine, Metallographic



## 企业文化 COMPANY CULTURE

### 经营理念

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### 营销理念

质量为本 诚信共赢

MUTUAL DEVELOPMENT BASED ON GOOD QUALITY  
LONG-TERM COOPERATION BASED ON GOOD FAITH

### 企业精神

团结 拼搏 务实 创新

UNITING, STRIVING, PRACTICAL, INNOVATION

## 资质证书 QUALIFICATION



## 检测设备 TESTING EQUIPMENT



质量检验永不松懈 STRICT QUALITY INSPECTION

# QK13系列数控管螺纹车床

## QK13 series CNC Pipe Threading Lathe

### 性能特点

- 主轴孔径大、通过性高、双卡盘工件夹持稳定
- 优质高强度铸铁铸造整体床身刚性好、精度高
- 导轨表面经超音波淬火处理，硬度高、寿命长
- 拖板采用导轨面贴膜工艺，耐磨性好、精度高

### 可选配置

西门子、发那科、广数和凯恩帝等数控系统、全封闭防护罩、立式刀塔

### 标准配置

四工位电动刀架、冷却系统、自动集中润滑系统、半封闭防护罩



### 数控管螺纹车床用途

本系列数控管螺纹车床主要用于加工管道工件的内外螺纹，同时具备普通数控车床的功能。可对轴类、盘类工件进行外圆、内孔和端面的加工。该系列机床广泛应用于石油行业对钻杆、接头、套管等工件的加工和修复。同时也可应用于地质勘探、矿产开采、化工冶炼、管网建设、机械制造和船舶建造等行业。

主要技术参数	SPECIFICATION	UNIT	QK1313	QK1322	QK1325	QK1327
床身上最大回转直径	Swing over bed	mm	630/800	630/800	630/800	630
床身最大回转直径	Swing over main slide	mm	340/540	340/540	340/540	480
最大工件长度	Distance between centers	mm	1000/1500/3000	1000/1500/3000	1000/1500/3000	1000/1500/3000
加工管螺纹直径范围	Pipe threading range	mm	30-126	30-150	30-210	30-210
床身导轨宽度	Guideway width	mm	550	550	600	600
床身床身间距	Slid. bed distance	mm	3	3	4	4
主轴孔径范围	Spindle bore	mm	130	200	276	280
主轴承规格	Spindle speed size	mm	2档变频/1F, 3 steps	2档变频/4F, 4 steps	2档变频/4F, 4 steps	2档变频/4F, 4 steps
主轴承速度范围	Spindle speed range	rpm	30-450	30-500	30-480	30-480
床身重量	Bed weight	mm	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)
刀架	Turret		4工位自动刀架, CNC turret 4 position			
刀架尺寸	Bed skirt size	mm	32*32	32*32	32*32	32*32
刀架行程	Z axis travel	mm	320-420	320-420	420	420
进给	Feed		890/1360/2890	890/1360/2890	890/1360/2890	890/1360/2890
主轴承进给速度	Z axis feed	mm/min	4000	4000	4000	4000
主轴承进给速度	Z axis feed	mm/min	8000	8000	8000	8000
尾架套筒直径	Tailstock coll diameter	mm	φ 100	φ 100	φ 100	φ 100
尾架套筒长度	Tailstock coll length	mm	M16	M16	M16	M16
尾架套筒行程	Tailstock coll travel	mm	250	250	300	300
电机	Main spindle motor	kW	1F, 11	1F, 11	1F, 15	1F, 15
冷却泵电机	Cooling pump motor	kW	0.125	0.125	0.125	0.125
尺寸	Width x Height	mm	1800 x 1750	1800 x 1750	1800 x 1750	1800 x 1750
重量	Weight	mm	1300/1900/3300	1300/1900/3300	1300/1900/3300	1300/1900/3300
重量	Net weight	T	4.2/5.0/8.8	4.2/5.0/8.8	4.2/5.0/8.8	4.2/5.0/8.8

备注: 床身长度可根据客户的实际需求进行调整。主轴承1200mm以下的数控管螺纹车床可以定制成CNC中床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。

### STAN DARD A CCESSO RIES

Siemens controller, NC tool post, automatic lubrication, coolant, and semi-shield

### FEATU RES

- Big spindle bore and double chuck to ensure process big diameter pipe
- One-piece bed adopts high strength iron to ensure rigidity and precision
- Ultrasonic frequency quenched guide-ways ensure good wear-resistance
- Carriage and guide way contact surface use Turcite B to maintain accuracy

### OPTIONAL A CCESSO RIES

Fanuc, Fagor, GSK and KND system etc., full-shield, servo, hydraulic and power turret



### CNC PIPE TH READING LATHE INT RODUCTION

QK13 series CNC pipe threading lathe is mainly designed for processing internal and external pipe threads including metric, nch, module, DP and threads, as well as having all the common functions of normal CNC lathe such as processing the inner bore and end face of shafts and disks. This series lathe machine is widely used in industries including petroleum exploiting, minerals mining, chemical piping and geological prospecting. It is high-efficiency equipment in processing and repairing drilling pipe, drilling rod, thread coupling and so on.

主要技术参数	SPECIFICATION	UNIT	QK1327	QK1332	QK1338	QK1343	QK1350	QK1363	
床身上最大回转直径	Swing over bed	mm	1000	1000	1000	1000	1300	1400	
床身最大回转直径	Swing over main slide	mm	610	610	610	610	710	800	
最大工件长度	Distance between centers	mm	1500/3000	1800/3000	1800/3000	1800/3000	1800/3000	1800/3000	
加工管螺纹直径范围	Pipe threading range	mm	150-210	180-330	180-380	210-450	330-510	330-630	
床身导轨宽度	Guideway width	mm	750	750	750	750	750	1100	
床身床身间距	Slid. bed distance	mm	4	4	4	4	4	50	
主轴孔径范围	Spindle bore	mm	280	330	380	440	520	640	
主轴承规格	Spindle speed size	mm	2档变频/1F, 3 steps	2档变频/1F, 3 steps	2档变频/1F, 3 steps	2档变频/1F, 3 steps	2档变频/1F, 3 steps	2档变频/1F, 3 steps	
主轴承速度范围	Spindle speed range	rpm	10-280	10-340	10-380	10-450	10-520	10-630	
床身重量	Bed weight	mm	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	4.65T(含刀架)/3.5T(不含刀架)	
刀架	Turret		4工位自动刀架, CNC turret 4 position						
刀架尺寸	Bed skirt size	mm	40*40	40*40	40*40	40*40	60*60	60*60	
刀架行程	Z axis travel	mm	420	420	420	420	520	620	
进给	Feed		1250	1250	1250	1250	1250	1250	
主轴承进给速度	Z axis feed	mm/min	4000	4000	4000	4000	4000	4000	
主轴承进给速度	Z axis feed	mm/min	8000	8000	8000	8000	8000	8000	
尾架套筒直径	Tailstock coll diameter	mm	φ 140	φ 140	φ 140	φ 140	φ 140	φ 220	
尾架套筒长度	Tailstock coll length	mm	M16	M16	M16	M16	M16	Metric 30	
尾架套筒行程	Tailstock coll travel	mm	300	300	300	300	300	300	
电机	Main spindle motor	kW	1F, 11	1F, 11	1F, 11	1F, 11	1F, 11	1F, 11	
冷却泵电机	Cooling pump motor	kW	0.125	0.125	0.125	0.125	0.125	0.125	
尺寸	Width x Height	mm	2100 x 2100	2100 x 2100	2100 x 2100	2200 x 2200	2200 x 2200	2800 x 2800	
重量	Weight	mm	4800/4300	4900/4400	4900/4400	5000/4500	5000/4500	5400/4900	
重量	Net weight	T	10.0/11.0	11.0/11.5	12.0/13.0	13.0/14.0	15.0/16.0	18.0/19.0	

备注: 床身长度可根据客户的实际需求进行调整。数控管螺纹车床可定制成CNC中床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。主轴承1200mm以上的数控管螺纹车床可以定制成CNC大床身结构。

# CK系列数控车床 CK series CNC Lathe

### 性能特点

- 优质高强度铸铁铸造整体床身刚性好、精度高
- 导轨表面经超音频淬火处理，硬度高、寿命长
- 拖板采用导轨面贴塑工艺，耐磨性好、精度高

### 标准配置

四工位电动刀架、自动集中润滑系统、冷却系统、半封闭防护罩

### 可选配置

西门子、发那科、广数和凯恩帝等数控系统、全封闭防护罩、立式式刀塔

### STANDARD ACCESSORIES

Siemens controller, NC tool post, automatic lubrication, coolant, and semi-shield

### FEATURES

- One-piece bed adopts high strength iron to ensure rigidity and precision
- Ultrasonic frequency quenched guide-ways ensure good wear-resistance
- Carriage and guide way contact surface use Turcite B to maintain accuracy



### OPTIONAL ACCESSORIES

Fanuc, Fagor, GSK and KND system etc., full-shield, servo, hydraulic and power turret



### 数控车床用途

本系列数控车床为经济型数控加工机床，是通用和标准型的自动化金属加工设备，可进行机械零件的半精加工及精加工，具有结构可靠、操作方便和经济实用等特点，适用于车削内外圆柱面、圆锥面及其它旋转面，车削各种公制、英制、模数和径节等螺纹，是机加工领域最常用的数控加工设备之一。

### CNC LATHE INTRODUCTION

CK series CNC lathe is universal standard automatic machining equipment for metal processing, capable of semi-finish machining and finish machining of machinery components and parts, with the main characters such as reliable structure, easy operating and economical for using. This series lathe machine mainly used for turning the internal and external cylindrical surface, conical surface and other rotating surfaces, and turning internal and external pipe threads including metric, inch, module, DP threads etc.

主要技术参数	SPECIFICATION	UNIT	CK6156		CK6163		CK6180	
			平床数控/Manual	立式数控/Vertical	平床数控/Manual	立式数控/Vertical	平床数控/Manual	立式数控/Vertical
加工范围 Capacity	床身上最大回转直径	mm	560	630	630	630	630	630
	精车轴上最大回转直径	mm	300	350	350	350	350	350
	最大工件长度	mm	1500/1900/2000	1500/2000/3000	1500/2000/3000	1500/2000/3000	1500/2000/3000	1500/2000/3000
主轴 Spindle	床身导轨宽度	mm	400	450	450	450	450	450
	床身床重范围	t	1	2	2	2	2	2
	主轴承行程	mm	83	104	104	104	104	104
刀架 Turret	刀架类型	mm	—	—	—	—	—	—
	刀架尺寸	mm	25 × 25	32 × 32	32 × 32	32 × 32	32 × 32	32 × 32
	刀架行程	mm	320	320	420	420	420	420
进给 Feed	Z轴行程	mm	850/1300/1800	1200/1800/2800	1200/1800/2800	1200/1800/2800	1200/1800/2800	1200/1800/2800
	X轴快速进给速度	mm/min	6000	6000	6000	6000	6000	6000
	Z轴快速进给速度	mm/min	6000	6000	6000	6000	6000	6000
尾座 Tailstock	尾座套筒直径	mm	φ75	φ100	φ100	φ100	φ100	φ100
	尾座套筒长度	mm	—	M16	M16	M16	M16	M16
	尾座套筒行程	mm	150	250	250	250	250	250
电机 Motor	主轴电机	kW	VF 7.5	Series 7.5	VF 11	VF 11	VF 11	VF 11
	冷却泵电机	kW	0.125	0.125	0.125	0.125	0.125	0.125
	宽度W × 高度H	mm	1450 × 1750	1650 × 1750	1850 × 1750	1850 × 1750	1850 × 1750	1850 × 1750
尺寸 Dimension	重量L	mm	2980/3980/3980	3600/4000/5000	3900/4400/5400	4000/4500/5500	4000/4500/5500	4000/4500/5500
	净重W	t	3.1/3.4/3.1	3.4/4.7/4.8	4.3/4.7/4.8	4.3/4.7/4.8	4.3/4.7/4.8	4.3/4.7/4.8

主要技术参数	SPECIFICATION	UNIT	CK61100		CK61100	CK61125	CK61140	CK61160
			平床数控/Manual	立式数控/Vertical	平床数控/Manual	立式数控/Vertical	平床数控/Manual	立式数控/Vertical
加工范围 Capacity	床身上最大回转直径	mm	1000	1000	1000	1250	1400	1600
	精车轴上最大回转直径	mm	560	610	610	660	1000	1200
	最大工件长度	mm	1500/2000/3000	1500/2000	1500/2000	1500/2000	1500/2000	1500/2000
主轴 Spindle	床身导轨宽度	mm	600	716	716	716	716	716
	床身床重范围	t	4	6	6	6	6	6
	主轴承行程	mm	104	130	130	130	130	130
刀架 Turret	刀架类型	mm	—	—	—	—	—	—
	刀架尺寸	mm	32 × 32	40 × 40	40 × 40	40 × 40	40 × 40	40 × 40
	刀架行程	mm	320	520	520	720	720	720
进给 Feed	Z轴行程	mm	1200/1800/2800	1300/2800	1300/2800	1300/2800	1300/2800	1300/2800
	X轴快速进给速度	mm/min	4000	4000	4000	4000	4000	4000
	Z轴快速进给速度	mm/min	6000	6000	6000	6000	6000	6000
尾座 Tailstock	尾座套筒直径	mm	φ100	φ140	φ140	φ140	φ140	φ140
	尾座套筒长度	mm	—	M16	M16	M16	M16	M16
	尾座套筒行程	mm	250	300	300	300	300	300
电机 Motor	主轴电机	kW	VF 22	VF 22	VF 22	VF 22	VF 22	VF 22
	冷却泵电机	kW	0.125	0.125	0.125	0.125	0.125	0.125
	宽度W × 高度H	mm	2200 × 2200	2100 × 2100	2100 × 2100	2100 × 2100	2100 × 2100	2100 × 2100
尺寸 Dimension	重量L	mm	4000/4500/5500	5000/6000	5000/6000	5000/6000	5000/6000	5000/6000
	净重W	t	5.4/5.8/5.8	10.0/11.5	11.4/13.0	11.4/13.0	11.4/13.0	11.4/13.0

# 斜床身数控管螺纹车床

## Slant Bed CNC Pipe Threading Lathe

### SLANT BED CNC LATHE INTRODUCTION

Slant bed CNC lathe series is the new type automatic lathe with high precision and high efficiency, it equips with advanced accessories such as servo or power turret, hydraulic or pneumatic chuck, hydraulic tailstock etc. This series lathe is capable of processing arc, straight and oblique cylinder workpiece, as well as turning threads and worm workpiece etc.



### 斜床身数控车床用途

本系列斜床身数控车床是高精度、高效率的自动化机床，配备多工位伺服刀塔或动力刀塔，液压或气动卡盘，液压尾座等，能够加工直线圆柱、斜线圆柱、圆弧和各种螺纹，并且能够加工蜗杆等复杂工件。

主要技术参数	SPECIFICATION	UNIT	YPT15	YPT20	YPT22	YPT27
加工范围 Capacity	床身上最大回转直径	Swing over bed	680	680	680	600
	最大加工直径	Max. turning diameter	600	600	600	700
	床身板上最大回转直径	Swing over cross slide	460	460	460	540
	最大工件长度	Distance between centers	820	820	820	800
主轴 Spindle	床身主轴角度	Slant bed linear angle	45	45	45	45
	主轴孔径范围	Spindle bore	150	200	225	260
	主轴转速型号	Spindle motor type	A <sub>1</sub> -11	A <sub>1</sub> -15	A <sub>1</sub> -15	A <sub>1</sub> -15
	材料通过直径	Max material through	145	195	220	275
刀架 Turret	刀架类型	Turret/tail seat	手工或液压伺服刀架 / 8 position hydraulic servo turret			
	刀架尺寸	Turret size	32 x 32	32 x 32	32 x 32	32 x 32
进给 Feed	X轴行程	X axis travel	350	350	350	350
	Z轴行程	Z axis travel	1140	1140	1140	1140
	X轴快速进给速度	X axis rapid traverse	3600	3600	3600	3600
	Z轴快速进给速度	Z axis rapid traverse	3000	3000	3000	3000
尾座 Tailstock	液压尾座固定行程	Tailstock split distance	140	140	140	140
	液压尾座软行程	Tailstock split stop	MT5	MT5	MT5	MT5
	液压尾座最大行程	Tailstock split travel	200	200	200	200
	尾座软行程	Max spindle stop	200	300	300	300
电机 Motor	主轴电机	Main spindle motor	22	22	22	27
	冷却泵电机	Cooling pump motor	0.55	0.55	0.55	0.55
尺寸 Dimension	宽度W × 高度H	Width × Height	1950 × 2060	1950 × 2060	1950 × 2060	2000 × 2060
	长度L (含冷却泵)	Length (the cooler related)	1920	1920	1920	4000
重量Weight	Net weight	T	8.5	8.5	8.5	13.0

# CQK系列数控大孔车床

## CQK series Economic CNC Big Bore Lathe

### CNC BIG BORE LATHE INTRODUCTION

CNC big bore lathe series is the new type lathe with big spindle bore and high spindle speed, it is suitable for carry out light cutting force, high spindle speed and high surface finish machining, meanwhile it also has the normal CNC lathe functions such as light turning the internal and external cylindrical surface, conical surface and other rotating surfaces, as well as threads cutting.



### 数控大孔车床用途

本系列数控大孔车床是新型经济型数控车床，具有大主轴孔和高主轴转速等特点，广泛适用于液压油缸等行业的轻切削、高转速、高光质量的加工要求，同时具有普通数控车床的轻度切削功能，能够车削内外圆柱面、圆锥面及其它旋转面，并进行螺纹加工。

主要技术参数	SPECIFICATION	UNIT	CQK6150			CQK6160
			6级普通级 Trachem	7级普通级 Trachem	8级普通级 Trachem	6级普通级 Trachem
加工范围 Capacity	床身上最大回转直径	Swing over bed	600	600	600	600
	最大加工直径	Swing over cross slide	270	270	270	310
	床身板上最大回转直径	Distance between centers	1000/1500/2000	1000/1500/2000	1000/1500/2000	1000/1500/2000
	最大工件长度	Distance between centers	1000/1500/2000	1000/1500/2000	1000/1500/2000	1000/1500/2000
主轴 Spindle	床身主轴角度	Slant bed linear angle	45	45	45	45
	床身主轴范围	Max. lathe capacity	1	1	1	1
	主轴孔径范围	Spindle bore	36	140	140	200
	主轴转速范围	Spindle speed range	—	无级变速 / stepless	无级变速 / stepless	无级变速 / stepless
刀架 Turret	刀架类型	Turret/tail seat	手工或液压伺服刀架 / 8 position hydraulic servo turret			
	刀架尺寸	Turret size	25 x 25	25 x 25	25 x 25	25 x 25
进给 Feed	X轴行程	X axis travel	320	320	320	320
	Z轴行程	Z axis travel	850/1350/1850	850/1350/1850	850/1350/1850	850/1350/1850
	X轴快速进给速度	X axis rapid traverse	3000	3000	3000	3000
	Z轴快速进给速度	Z axis rapid traverse	3000	3000	3000	3000
尾座 Tailstock	尾座固定行程	Tailstock split distance	75	75	75	75
	尾座软行程	Tailstock split stop	MT5	MT5	MT5	MT5
	尾座最大行程	Tailstock split travel	150	150	150	150
	尾座软行程	Max spindle stop	150	150	150	150
电机 Motor	主轴电机	Main spindle motor	Servo 5.5	Servo 5.5	Servo 5.5	Servo 7.5
	冷却泵电机	Cooling pump motor	0.125	0.125	0.125	0.125
尺寸 Dimension	宽度W × 高度H	Width × Height	1600 × 1610	1600 × 1610	1600 × 1610	1600 × 1610
	长度L	Length	2700/3200/4750	2700/3200/4750	2700/3200/4750	2700/3200/4750
重量Weight	Net weight	T	2.5/2.5/2.5	2.5/2.5/2.5	2.5/2.5/2.5	2.5/2.5/2.5

# Q13系列普通管螺纹车床

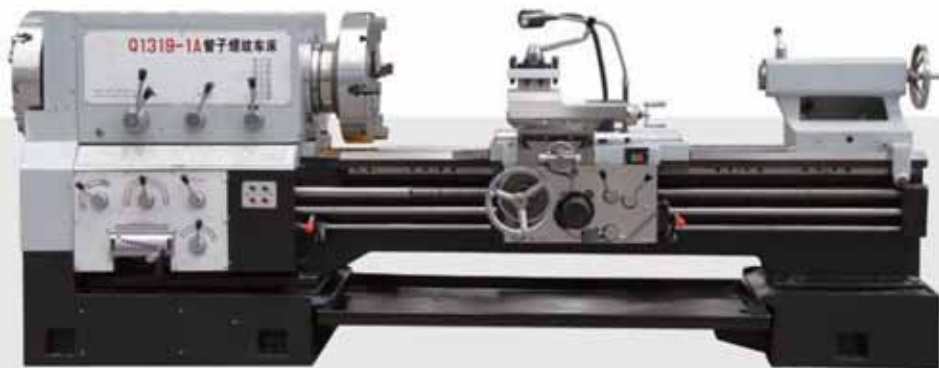
## Q13 series Pipe Threading Lathe

# Q13系列普通管螺纹车床

## Q13 series Pipe Threading Lathe

### 性能特点

- 主轴孔径大、通过性高、双卡盘工件夹持稳定
- 优质高强度铸铁铸造整体床身刚性高、精度高
- 导轨表面经超音波淬火处理，硬度高、寿命长
- 配备锥度杠装置，能满足锥度螺纹的切削要求



### FEATURES

- Big spindle bore and double chuck allows clamp and process big diameter pipes
- Integral machine bed adopts high strength iron to realize high rigidity and precision
- Ultrasonic frequency quenched guide-ways are hard enough for good wear-resistance
- Equipped with taper guide bar device this enables the machine to process taper threads



### 管螺纹车床用途

本系列管螺纹车床主要用来加工管子内外螺纹，同时也可作为普通车床使用，可对轴类、盘类进行外圆、内孔和端面等的加工，机床配有锥度装置，可加工带锥度的工件。该机床广泛应用于石油行业对钻杆、接头、套管等零件的加工和修复，同时也应用于化工、煤炭、地质等行业各种管道、钻杆等的螺纹加工。

### PIPE THREADING LATHE INTRODUCTION

Q13 series pipe threading lathe mainly used for turning the internal and external threads including metric and inch thread, as well as having all the common functions of normal engine lathe such as processing the inner bore and end face of shafts and disks, this machinery is equipped with taper guide bar device which enables this series to process taper thread. This series is widely used in industries including petroleum exploiting, minerals mining, chemical piping and geological prospecting, for processing and repairing drilling pipe, drilling rod, thread coupling and so on.

主要技术参数	SPECIFICATION	UNIT	Q1313	Q1319	Q1322	Q1325	Q1327
加工范围 Capacity	床身上最大回转直径	Swing over bed	630/800	830/1000	830/1000	800	800
	鞍架上最大回转直径	Swing over cross slide	340/540	340/540	340/540	480	480
	最大工件长度	Distance between centres	1100/2000	1100/2000	1100/2000	1500/2000	1500/2000
	加工管螺纹外径范围	Pipe threading range	30-124	50-193	50-230	50-290	50-230
主轴 Spindle	床身导轨宽度	Guideway width	550	550	600	600	600
	床身导轨间距	Max. lead capacity	3	3	4	4	4
	主轴孔径范围	Spindle bore	130	200	225	255	280
	主轴转速级数	Spindle speed steps	— 正转9级/T.M. 3-pos. 反转9级	— 正转10级/T.M. 3-pos. 反转9级	— 正转10级/T.M. 3-pos. 反转9级	4档变速/ST 4 steps	4档变速/ST 4 steps
刀架 Turret	主轴转速范围	Spindle speed range	30-490	30-490	30-490	30-490	30-490
	刀架类型	Turret type	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position
	刀架尺寸	Turret size	30 x 30	30 x 30	30 x 30	30 x 30	30 x 30
	刀架行程	Turret travel	320/420	320/420	320/420	420	420
进给 Feed	刀架行程	Turret travel	1360/2860	1360/2860	1360/2860	1360/2860	1360/2860
	切削进给范围/范围	Cutting feed range/range	22/0.03-0.45	22/0.03-0.45	22/0.03-0.45	22/0.03-0.45	22/0.03-0.45
	切削进给级数/范围	Cutting feed steps/range	26/0.01-1.33	26/0.01-1.33	26/0.01-1.33	26/0.01-1.33	26/0.01-1.33
	切削进给速度	Cutting feed speed	3300	3300	3300	3300	3300
尾座 Tailstock	切削进给速度	Cutting feed speed	4000	4000	4000	4000	4000
	分齿锥齿轮/范围	Dividing gear range/range	52/1-24	24/1-14	24/1-24	1-75	1-15
	分齿锥齿轮/范围	Dividing gear range/range	40/28-2	40/28-2	40/28-2	14-1	14-1
	尾座套筒直径	Tailstock quill diameter	φ 100	φ 100	φ 100	φ 100	φ 100
电机 Motor	尾座套筒长度	Tailstock quill length	—	M15	M15	M15	M15
	尾座套筒行程	Tailstock quill travel	250	250	250	300	300
	主轴电机	Main spindle motor	11	11	11	15	15
	快速进给电机	Rapid traverse motor	0.3	0.3	0.3	1.1	1.1
尺寸 Dimension	冷却泵电机	Cooling pump motor	0.125	0.125	0.125	0.125	0.125
	宽度W × 高度H	Width × Height	1500 × 1500	1550 × 1550	1550 × 1600	1700 × 1600	1700 × 1600
	重量	Weight	3100/3200	3750/3200	3700/3200	4100/3600	4100/3600

备注：床身导轨行程、床身长度等可根据客户的实际工件需要进行定制。  
Note: Bed, machine ways, distance, bed length can be customized according to real work demand.

主要技术参数	SPECIFICATION	UNIT	Q1327	Q1332	Q1338	Q1343	Q1350
加工范围 Capacity	床身上最大回转直径	Swing over bed	1000	1300	1000	1000	1300
	鞍架上最大回转直径	Swing over cross slide	610	610	610	610	710
	最大工件长度	Distance between centres	1100/2000	1500/2000	1100/2000	1100/2000	1100/2000
	加工管螺纹外径范围	Pipe threading range	120-270	180-230	180-380	270-430	330-510
主轴 Spindle	床身导轨宽度	Guideway width	755	755	755	755	755
	床身导轨间距	Max. lead capacity	6	6	6	6	6
	主轴孔径范围	Spindle bore	280	330	380	440	520
	主轴转速级数	Spindle speed steps	— 正转10级/T.M. 10 steps	— 正转10级/T.M. 10 steps	— 正转10级/T.M. 10 steps	— 正转10级/T.M. 10 steps	— 正转10级/T.M. 10 steps
刀架 Turret	主轴转速范围	Spindle speed range	15-380	7.5-280	5-200	4.5-180	4.5-180
	刀架类型	Turret type	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position	— 4档变速/T.M. 4 position
	刀架尺寸	Turret size	45 x 45	45 x 45	45 x 45	45 x 45	45 x 45
	刀架行程	Turret travel	520	520	520	520	520
进给 Feed	刀架行程	Turret travel	1360/2860	1360/2860	1360/2860	1360/2860	1360/2860
	切削进给范围/范围	Cutting feed range/range	40/0.05-1.5	32/0.05-0.75	32/0.05-0.75	32/0.05-0.75	32/0.05-0.75
	切削进给级数/范围	Cutting feed steps/range	40/0.1-1.5	32/0.1-1.5	32/0.1-1.5	32/0.1-1.5	32/0.1-1.5
	切削进给速度	Cutting feed speed	1870	1870	1870	1870	1870
尾座 Tailstock	切削进给速度	Cutting feed speed	3740	3740	3740	3740	3740
	分齿锥齿轮/范围	Dividing gear range/range	30/1-30	33/1-15	33/1-15	33/1-15	33/1-15
	分齿锥齿轮/范围	Dividing gear range/range	22/28-2	22/28-2	22/28-2	22/28-2	22/28-2
	尾座套筒直径	Tailstock quill diameter	φ 140	φ 140	φ 140	φ 140	φ 140
电机 Motor	尾座套筒长度	Tailstock quill length	—	M15	M15	M15	M15
	尾座套筒行程	Tailstock quill travel	300	300	300	300	300
	主轴电机	Main spindle motor	22	22	22	22	22
	快速进给电机	Rapid traverse motor	1.5	1.5	1.5	1.5	1.5
尺寸 Dimension	冷却泵电机	Cooling pump motor	0.125	0.125	0.125	0.125	0.125
	宽度W × 高度H	Width × Height	2100 × 1600	2100 × 1600	2100 × 1700	2100 × 1700	2100 × 1800
	重量	Weight	4800/3000	4900/3400	4800/3400	5000/3600	5000/3600

备注：床身导轨行程、床身长度等可根据客户的实际工件需要进行定制。  
Note: Bed, machine ways, distance, bed length can be customized according to real work demand.

# CW系列普通车床

## CW series Universal Engine Lathe

### 性能特点

- 优质高强度铸铁铸造整体床身刚性好、精度高；
- 导轨表面经超音频淬火处理，硬度高、寿命长；
- 床头箱齿轮经过淬硬和精密磨削，精度高、噪音低；

### 普通车床用途

本系列车床是通用金属切削机床，适用于车削内外圆柱面，圆锥面及其它旋转面，车削各种公制和英制和模数和径节螺纹，并能进行钻孔和拉油槽等工作，本系列机床适宜加工钢铁、钢及各种有色金属等材料。

### FEATURES

- One-piece bed adopts high strength iron to ensure rigidity and precision
- Ultrasonic frequency quenched guide-ways ensure good wear-resistance
- Headstock gears hardened and precision ground to achieve high precision and low noise

### UNIVERSAL ENGINE LATHE INTRODUCTION

CW series lathe machine is universal metal machining equipment for metal processing, mainly used for turning the internal and external cylindrical surface, conical surface and other rotating surfaces, and turning internal and external pipe threads such as metric, inch, module, DP threads etc., meanwhile this series is also used to drill holes in bar material and make oil groove. This series lathe is able to process metal materials including cast iron, steel and non-ferrous metals.



主要技术参数	SPECIFICATION	UNIT	CW6163	CW6180	CW61100C
加工范围 Capacity	床身最大回转直径 Horizontal max. lathe work dia.	mm	630	800	1000
	床身最大回转直径 Horizontal max. lathe work dia.	mm	350	590	890
	最大工件长度 Distance between centers	mm	1500/2000/3000	1500/2000/3000	1500/2000/3000
	床身导轨宽度 Guide-way width	mm	550	800	800
主轴 Spindle	床身最大容量 Max. lathe capacity	t	3	5	4
	主轴孔径范围 Spindle hole range	mm	104	104	130
	主轴孔锥度 Spindle hole taper	—	Metric: $\phi 120$ -M15	Metric: $\phi 120$ -M15	Metric: $\phi 120$ -M15
	主轴鼻端型号 Spindle nose type	—	A-11	A-11	A-11
	主轴转速级数 Spindle speed steps	—	正转19档, FWD, 19 steps	正转19档, FWD, 19 steps	正转19档, FWD, 19 steps
刀架 Turret	主轴转速范围 Spindle speed range	rpm	1.5-1000	6-800	5.4-720
	冷却液 Coolant	mm	$\phi 315$ 手动 / 点 / $\phi 315$ 3-压 manual	$\phi 315$ 手动 / 点 / $\phi 315$ 3-压 manual	$\phi 315$ 手动 / 点 / $\phi 315$ 3-压 manual
	刀架类型 Turret/tail post	—	4工位半动力架, Manual turret, 4 position	4工位半动力架, Manual turret, 4 position	4工位半动力架, Manual turret, 4 position
	刀架尺寸 Turret size	mm	30 x 30	30 x 30	30 x 30
进给 Feed	X轴行程 X axis travel	mm	520	420	520
	Z轴行程 Z axis travel	mm	1260/1850/2850	1260/1850/2850	1260/1850/2850
	X轴快速进给速度/进给 X axis feed quick/ feed	mm/s	64.0/35-0.812	64.0/35-0.812	64.0/35-0.812
	Z轴快速进给速度/进给 Z axis feed quick/ feed	mm/s	64.0/1-34.3	64.0/1-34.3	64.0/1-34.3
	X轴快速进给速度 X axis feed quick	mm/min	2300	2300	2300
	Z轴快速进给速度 Z axis feed quick	mm/min	4000	4000	4000
	金属切削速度/进给 Metal feed quick/ feed	mm/min	50.7-340	50.7-340	50.7-340
	金属切削速度/进给 Metal feed quick/ feed	mm/min	36.14-1	36.14-1	36.14-1
	金属切削速度/进给 Metal feed quick/ feed	mm/min	53.0/5-120	53.0/5-120	53.0/5-120
	进给速度/进给 Feed quick/ feed	mm/min	34.28-1	34.28-1	34.28-1
尾座 Tailstock	尾座套筒直径 Tailstock quill diameter	mm	$\phi 100$	$\phi 100$	$\phi 100$
	尾座套筒锥度 Tailstock quill taper	—	M15	M15	M15
	尾座套筒行程 Tailstock quill travel	mm	250	250	250
	尾座套筒行程 Tailstock quill travel	mm	300	300	300
电机 Motor	主轴电机 Main spindle motor	kW	11	11	11
	快速进给电机 Rapid traverse motor	kW	1.3	1.3	1.3
	冷却泵电机 Coolant pump motor	kW	0.125	0.125	0.125
尺寸 Dimension	床身长 x 床身宽 Bed length x bed width	mm	1800 x 1480	1850 x 1680	1750 x 1390
	床身长 Bed length	mm	3800/4300/5300	4000/4500/5500	4000/4500/5500
	净重 Net weight	t	4.5/5.4/7.4/9	5.5/6.4/8.4/11	5.3/6.7/8.4

备注: 床身回转直径、床身长度和尾座行程可根据用户的实际需求进行调整。  
Notes: max. turning diameter, bed length and saddle gap can be adjusted according to real work demand.

主要技术参数	SPECIFICATION	UNIT	CW61100B	CW61125E	CW61140E	CW61160B
加工范围 Capacity	床身最大回转直径 Horizontal max. lathe work dia.	mm	1000	1250	1400	1600
	床身最大回转直径 Horizontal max. lathe work dia.	mm	810	910	1000	1200
	最大工件长度 Distance between centers	mm	1500/2000	1500/2000	1500/2000	1500/2000
	床身导轨宽度 Guide-way width	mm	750	750	750	750
主轴 Spindle	床身最大容量 Max. lathe capacity	t	5	6	6	6
	主轴孔径范围 Spindle hole range	mm	130	130	130	130
	主轴孔锥度 Spindle hole taper	—	Metric: $\phi 140$ -M15	Metric: $\phi 140$ -M15	Metric: $\phi 140$ -M15	Metric: $\phi 140$ -M15
	主轴鼻端型号 Spindle nose type	—	A-15	A-15	A-15	A-15
	主轴转速级数 Spindle speed steps	—	正转17档, FWD, 17 steps	正转17档, FWD, 17 steps	正转17档, FWD, 17 steps	正转17档, FWD, 17 steps
刀架 Turret	主轴转速范围 Spindle speed range	rpm	3.15-315	3.15-315	3.15-315	3.15-315
	冷却液 Coolant	mm	$\phi 100$ 手动 / $\phi 100$ 4-压 manual	$\phi 100$ 手动 / $\phi 100$ 4-压 manual	$\phi 100$ 手动 / $\phi 100$ 4-压 manual	$\phi 100$ 手动 / $\phi 100$ 4-压 manual
	刀架类型 Turret/tail post	—	4工位半动力架, Manual turret, 4 position	4工位半动力架, Manual turret, 4 position	4工位半动力架, Manual turret, 4 position	4工位半动力架, Manual turret, 4 position
	刀架尺寸 Turret size	mm	45 x 45	45 x 45	45 x 45	45 x 45
进给 Feed	X轴行程 X axis travel	mm	520	520	520	520
	Z轴行程 Z axis travel	mm	1260/2850	1260/2850	1260/2850	1260/2850
	X轴快速进给速度/进给 X axis feed quick/ feed	mm/s	56.0/5-6	56.0/5-6	56.0/5-6	56.0/5-6
	Z轴快速进给速度/进给 Z axis feed quick/ feed	mm/s	56.0/1-12	56.0/1-12	56.0/1-12	56.0/1-12
	X轴快速进给速度 X axis feed quick	mm/min	1870	1870	1870	1870
	Z轴快速进给速度 Z axis feed quick	mm/min	3740	3740	3740	3740
	金属切削速度/进给 Metal feed quick/ feed	mm/min	44.7-120	44.7-120	44.7-120	44.7-120
	金属切削速度/进给 Metal feed quick/ feed	mm/min	31.28-1.9	31.28-1.9	31.28-1.9	31.28-1.9
	金属切削速度/进给 Metal feed quick/ feed	mm/min	46.0/5-80	46.0/5-80	46.0/5-80	46.0/5-80
	进给速度/进给 Feed quick/ feed	mm/min	30.78-1	30.78-1	30.78-1	30.78-1
尾座 Tailstock	尾座套筒直径 Tailstock quill diameter	mm	$\phi 140$	$\phi 140$	$\phi 140$	$\phi 140$
	尾座套筒锥度 Tailstock quill taper	—	M15	M15	M15	M15
	尾座套筒行程 Tailstock quill travel	mm	300	300	300	300
	尾座套筒行程 Tailstock quill travel	mm	322	322	322	322
电机 Motor	主轴电机 Main spindle motor	kW	15	15	15	15
	快速进给电机 Rapid traverse motor	kW	0.125	0.125	0.125	0.125
	冷却泵电机 Coolant pump motor	kW	0.125	0.125	0.125	0.125
尺寸 Dimension	床身长 x 床身宽 Bed length x bed width	mm	2000 x 1800	2000 x 1860	2250 x 2080	2250 x 2180
	床身长 Bed length	mm	4600/5100	4600/5100	4600/5100	4600/5100
	净重 Net weight	t	8.6/10.7	10.6/11.7	11.2/12.3	13.1/14.0

备注: 床身回转直径、床身长度和尾座行程可根据用户的实际需求进行调整。  
Notes: max. turning diameter, bed length and saddle gap can be adjusted according to real work demand.



# 马鞍车床

## Saddle lathe

### 马鞍车床用途

本系列车床是通用金属切削机床的改型车床，在原机床床身的基础上，对床身进行了改动，增加了马鞍槽内的回转直径，可以满足长度较短但直径较大的盘类工件的加工要求，同时具有普通车床的正常功能。

### SADDLE LATHE INTRODUCTION

Saddle lathe series is a special type of lathe designed on the basis of CW series conventional lathe, by adding the saddle gap to the lathe bed, it allows the short disk workpiece which has big diameter to be processed on a relatively smaller lathe machine, and this machine has all the common functions of its original model.



主要技术参数	SPECIFICATION	UNIT	CW6263	CW6280	CW62100
加工范围 Capacity	床身上最大回转直径	Swing over bed	630	800	800
	床鞍上最大回转直径	Swing over saddle	380	550	660
	马鞍内最大回转直径	Swing over saddle gap	800	1000	1200
	最大工件长度	Distance between centers	1500/2000/3000	1500/2000/3000	1500/2000/3000
主轴 Spindle	床身导轨宽度	Guide-way width	560	560	600
	床身床罩范围	Max. bed opening	3	3	4
	主轴孔直径	Spindle bore	104	104	104
	主轴孔锥度	Spindle bore taper	—	Metric: $\phi 120$ /MTS	Metric: $\phi 120$ /MTS
	主轴锥度型号	Spindle nose type	A2-11	A2-11	A2-11
	主轴转速级数	Spindle speed steps	—	正转18档 / FWD: 18 steps	正转18档 / FWD: 18 steps
	主轴转速范围	Spindle speed range	rpm	7.5-1000	6-800
	卡盘规格	Chuck	mm	$\phi 315$ 手动/爪 / $\phi 315$ 3-jaw manual	$\phi 315$ 手动/爪 / $\phi 315$ 3-jaw manual
	刀架类型	Turn tool post	—	4 T位手动刀架 / Manual turret 4 position	4 T位手动刀架 / Manual turret 4 position
	进给 Feed	刀架尺寸	Tool block size	mm	30 x 30
X轴行程		X axis travel	mm	320	420
Z轴行程		Z axis travel	mm	1350/1850/2850	1350/1850/2850
X轴快速进给/进给		X axis fast feed/ feed	mm/min	64.0 05-0.912	64.0 05-0.912
Z轴快速进给/进给		Z axis fast feed/ feed	mm/min	64.0 1-24.3	64.0 1-24.3
X轴快速进给速度		X axis rapid traverse	mm/min	7300	7300
Z轴快速进给速度		Z axis rapid traverse	mm/min	4000	4000
分齿锥纹种类/进给		Metric thread pitch/ feed	mm	50/1-240	50/1-240
英制锥纹种类/进给		Imperial thread pitch/ feed	T.P.I	28/14-1	28/14-1
模数锥纹种类/进给		Modul thread pitch/ feed	mm	63.0 5-120	63.0 5-120
公制锥纹种类/进给	IP thread pitch/ feed	O.P.	24/28-1	24/28-1	
尾座 Tailstock	尾座套筒直径	Tailstock quill diameter	mm	$\phi 100$	$\phi 100$
	尾座套筒长度	Tailstock quill length	—	MTS	MTS
	尾座套筒行程	Tailstock quill travel	mm	250	250
	尾座套筒行程	Max. quill travel	mm	11	11
电机 Motor	快速进给电机	Rapid traverse motor	kW	1.1	1.1
	冷却泵电机	Coolant pump motor	kW	0.125	0.125
尺寸 Dimension	宽度W × 高度H	Width × Height	mm	1400 × 1450	1500 × 1650
	长度L	Length	mm	3800/4000/5300	3600/4000/5300
重量 Weight	机床净重	Net weight	T	3.5/4.8/5.3	4.0/5.3/6.3

备注: 床身回转直径、床身长度和马鞍内最大回转直径的实际值要进行扣除。  
Notes: swing diameter, bed length and saddle gap are measurement according to real work demand.

# C630系列普通车床 大孔车床

## C630 series Engine Lathe

### 普通车床和大孔车床用途

本系列车床是传统金属切削机床，适用于车削内外圆柱面、圆锥面及其它旋转面和切削各种螺纹，并能进行钻孔和拉油槽等工作，适宜加工铸铁、钢及各种有色金属等材料；本系列衍生出的大孔车床系列，在原机床基础上扩大了主轴孔径，可以满足过主轴孔的大直径工件的加工要求。

### C630 SERIES LATHE INTRODUCTION

C630 series engine lathe is old style metal machining equipment for metal processing, mainly used for turning the internal and external cylindrical surface, conical surface and other rotating surfaces, and turning internal and external pipe threads such as metric, inch, module, DP threads etc., meanwhile this series is also used to drill holes in bar material and make oil groove. This series lathe is able to process metal materials including cast iron, steel and non-ferrous metals.



主要技术参数	SPECIFICATION	UNIT	C630-1B C630-1BM	C630-1BG100	C630-1BG150	C630-1BG200	$\phi 130$ 大孔车床	$\phi 200$ 大孔车床	$\phi 225$ 大孔车床
加工范围 Capacity	床身上最大回转直径	Swing over bed	630	800	1000	1000	630	630	630
	床鞍上最大回转直径	Swing over saddle	340	540	640	740	340	340	340
	马鞍内最大回转直径	Swing over saddle gap	800	1000	1150	1200	800	800	800
	最大工件长度	Distance between centers	230	230	230	230	230	230	230
主轴 Spindle	床身导轨宽度	Guide-way width	mm	750/1000/1500/2000/3000/4000/5000/6000/7000/8000/9000/10000					
	床身床罩范围	Max. bed opening	mm	490/540	490/540	490/540	490/540	490/540	490/540
	主轴孔直径	Spindle bore	T	3	3	3	3	3	3
	主轴孔锥度	Spindle bore taper	mm	30					
	主轴锥度型号	Spindle nose type	—	Metric: $\phi 80$ /MTS					
	主轴转速级数	Spindle speed steps	—	正转18档 / FWD: 18 steps, REV: 8 steps					
	主轴转速范围	Spindle speed range	rpm	正转18档 / FWD: 18 steps, REV: 8 steps					
	卡盘规格	Chuck	mm	$\phi 325$ 手动/爪 / $\phi 325$ 3-jaw manual					
	刀架类型	Turn tool post	—	4 T位手动刀架 / Manual turret 4 position					
	进给 Feed	刀架尺寸	Tool block size	mm	30 x 30				
X轴行程		X axis travel	mm	1/2"					
Z轴行程		Z axis travel	mm	390	430	490	380		
X轴快速进给/进给		X axis fast feed/ feed	mm/min	26.0 02-0.45					
Z轴快速进给/进给		Z axis fast feed/ feed	mm/min	26.0 02-1.33					
X轴快速进给速度		X axis rapid traverse	mm/min	7300					
Z轴快速进给速度		Z axis rapid traverse	mm/min	4000					
分齿锥纹种类/进给		Metric thread pitch/ feed	mm	52/1-224					
英制锥纹种类/进给		Imperial thread pitch/ feed	T.P.I	40/28-2					
模数锥纹种类/进给		Modul thread pitch/ feed	mm	41.0 25-58					
尾座 Tailstock	尾座套筒直径	Tailstock quill diameter	mm	$\phi 100$					
	尾座套筒长度	Tailstock quill length	—	MTS					
	尾座套筒行程	Tailstock quill travel	mm	250					
	尾座套筒行程	Max. quill travel	mm	11					
电机 Motor	快速进给电机	Rapid traverse motor	kW	0.3					
	冷却泵电机	Coolant pump motor	kW	0.125					
尺寸 Dimension	宽度W × 高度H	Width × Height	mm	1300 × 1350	1350 × 1450	1400 × 1500	1450 × 1550	1400 × 1400	1450 × 1450
	长度L	Length	mm	2840/3040/3940/4000/5000/6000/7040/8040/9100/10100/11100/12100					
重量 Weight	机床净重	Net weight	T	3.6/3.7/5.4/5.4/5.4/5.6/6.2/7.2/8.2/9.2/10.2/11.2					

备注: 床身回转直径、床身长度和马鞍内最大回转直径的实际值要进行扣除。  
Notes: swing diameter, bed length and saddle gap are measurement according to real work demand.



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