



威海威铨精密数控有限公司

WEIHAI WEMILL MACHINERY CO., LTD.



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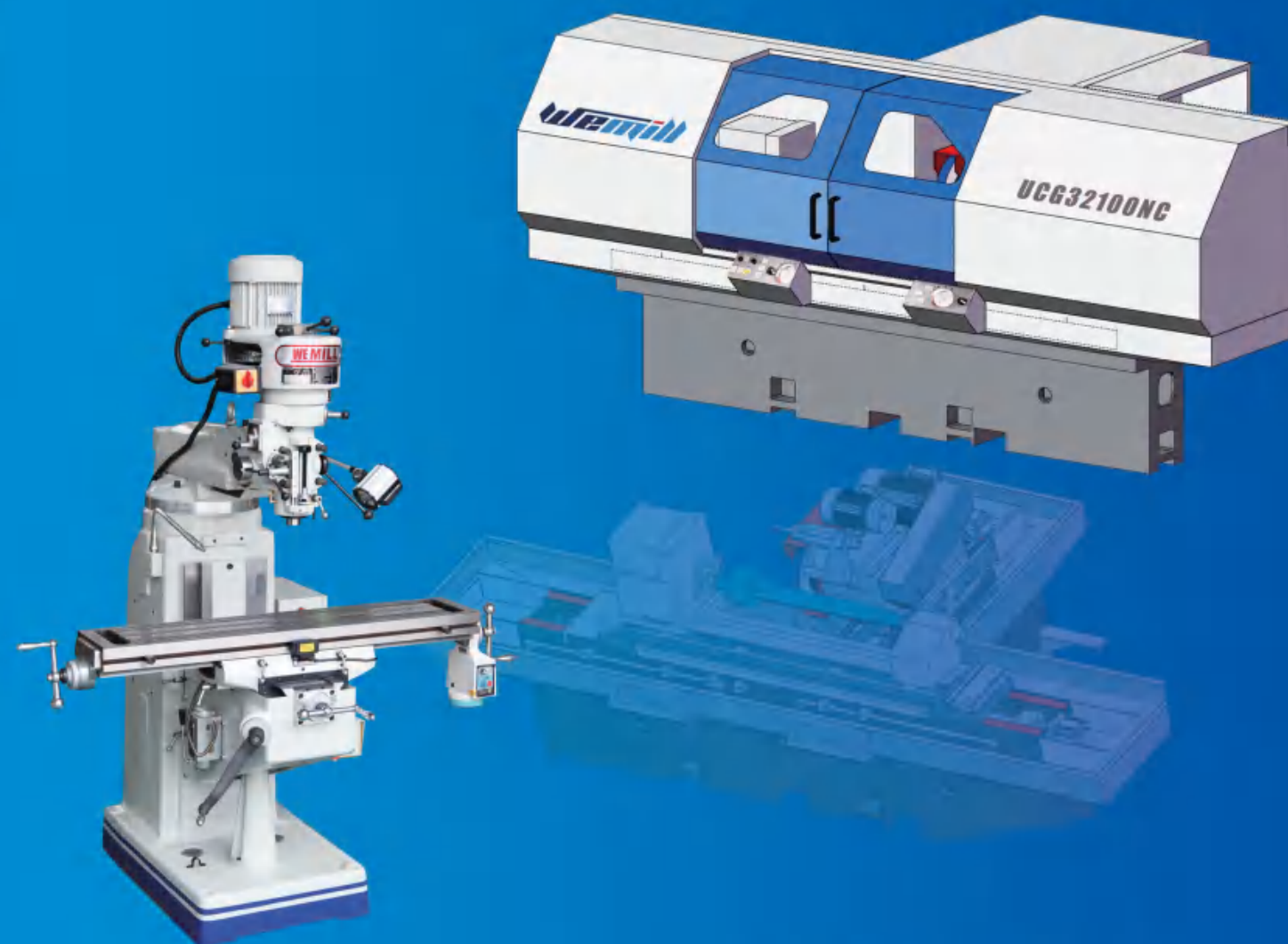
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产品综合样本 2024 >>
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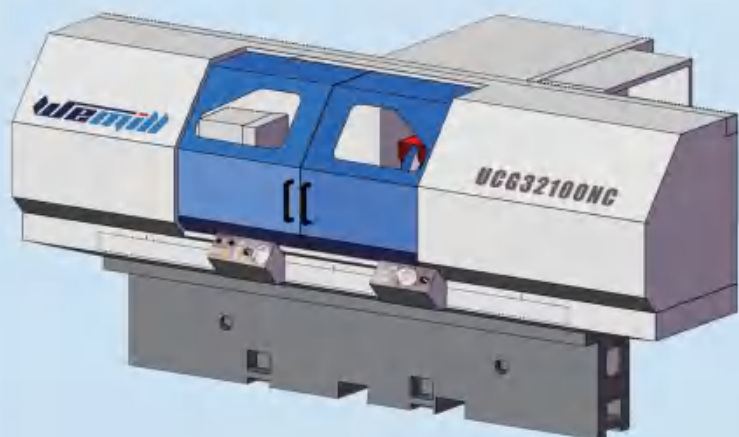
从小型到大型，从程控到数控，威铨外圆磨床家族致力于为用户提供全面高效的磨削解决方案。
From small grinder to large grinder and from NC control to CNC control, Wemill cylinder grinding machine family, dedicated to providing users with comprehensive and efficient grind solutions.

UCG 20 60 CNC	CG: 外圆磨床	CG: Cylinder grinder
	UCG: 万能外圆磨床	UCG: Universal cylinder grinder (with inner grind spindle)
	最大磨削外径/10	Max. grind diameter / 10 (20 means max. grind dia. is 200)
	最大磨削长度/10	Max. grind length / 10 (60 means max. length is 600)
NC: 程控	NC: HMI+PLC control	
	CNC: 数控	
CNC: 数控	CNC: Numerical Control System	

全系列外圆磨床标配半封闭式防护罩
Standard equipped with semi-closed guards



全系列外圆磨床可选配全封闭式防护罩
Optional equipped with enclosed guards



20 系列 / 20 Series

		CG 2060 UCG 2060	CG 2080 UCG 2080
最大磨削直径 max. grind dia.	mm	200	200
最大磨削长度 max. grind length	mm	600	800
磨削内孔能力 inner grind ability	mm	CG: - UCG: 100	CG: - UCG: 100
最大工件重量 max. loading	kg	100	100
顶尖规格 Centers		MT 4	MT 4

32 系列 / 32 Series

		CG 32100 UCG 32100	CG 32150 UCG 32150
最大磨削直径 max. grind dia.	mm	320	320
最大磨削长度 max. grind length	mm	1000	1500
磨削内孔能力 inner grind ability	mm	CG: - UCG: 100	CG: - UCG: 100
最大工件重量 max. loading	kg	150	150
顶尖规格 Centers		MT 4	MT 4

重型32 系列 / 32H Series

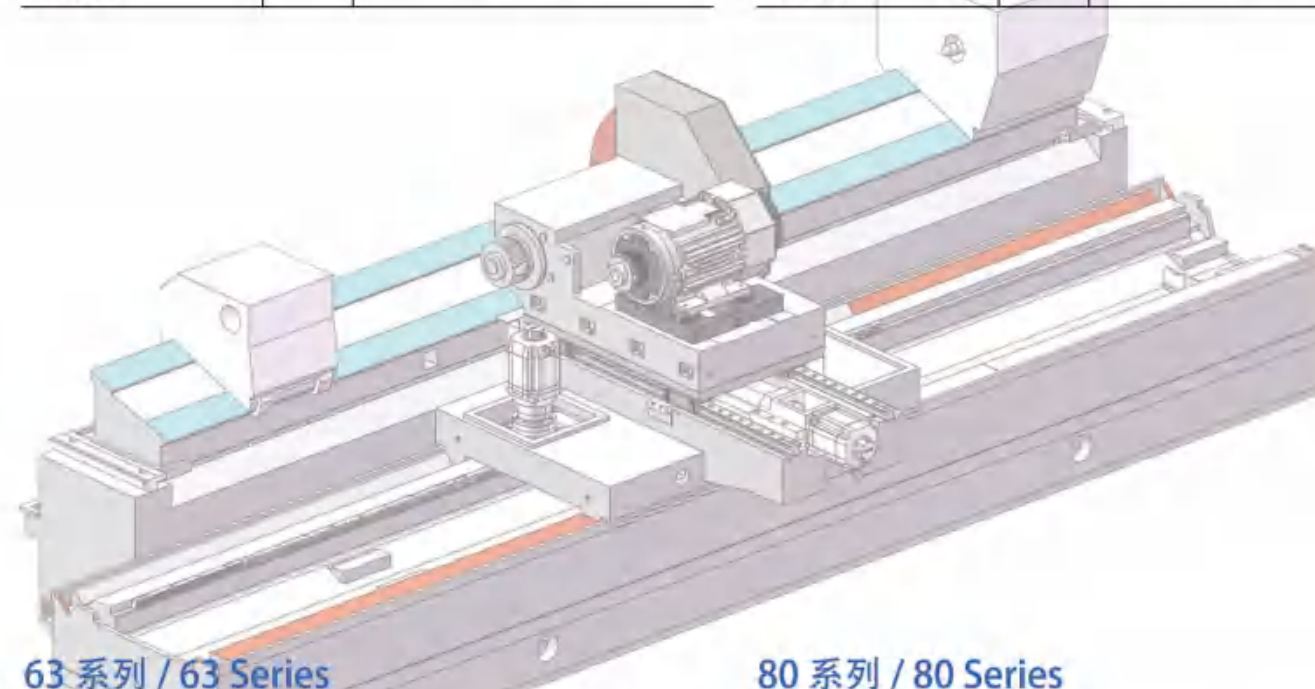
		CG 32200H~32600H UCG 32200H~32600H
最大磨削直径 max. grind dia.	mm	320
最大磨削长度 max. grind length	mm	2000~6000
磨削内孔能力 inner grind ability	mm	CG: - UCG: 100
最大工件重量 max. loading	kg	1000
顶尖规格 Centers		MT 5

40 系列 / 40 Series

		CG 40200H~40600H UCG 40200H~40600H
最大磨削直径 max. grind dia.	mm	400
最大磨削长度 max. grind length	mm	2000~6000
磨削内孔能力 inner grind ability	mm	CG: - UCG: 100
最大工件重量 max. loading	kg	1000
顶尖规格 Centers		MT 5

50 系列 / 50 Series

		CG 50150~50600 UCG 50150~50600
最大磨削直径 max. grind dia.	mm	500
最大磨削长度 max. grind length	mm	1500~6000
磨削内孔能力 inner grind ability	mm	CG: - UCG: 200
最大工件重量 max. loading	kg	2500
顶尖规格 Centers		MT6



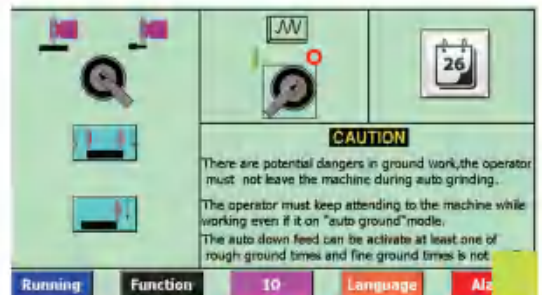
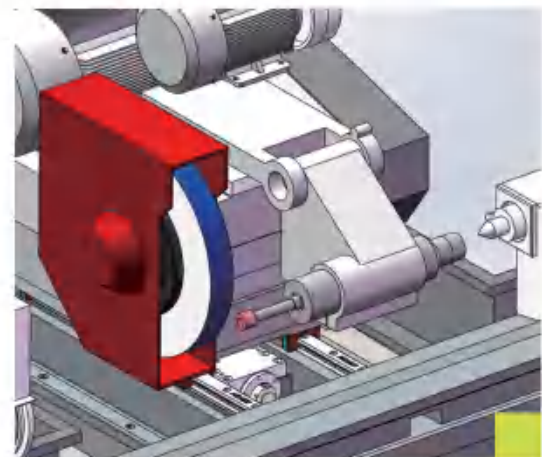
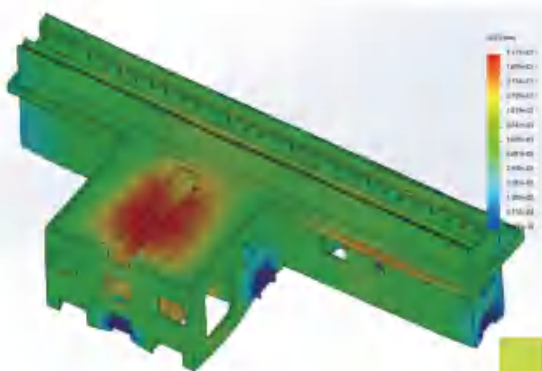
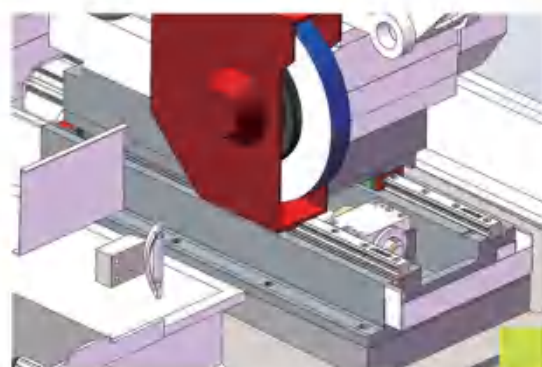
63 系列 / 63 Series

		CG 63200~63600 UCG 63200~63600
最大磨削直径 max. grind dia.	mm	630
最大磨削长度 max. grind length	mm	2000~6000
磨削内孔能力 inner grind ability	mm	CG: - UCG: 200
最大工件重量 max. loading	kg	3000
顶尖规格 Centers		#80

80 系列 / 80 Series

		CG 80200~80600
最大磨削直径 max. grind dia.	mm	800
最大磨削长度 max. grind length	mm	2000~6000
磨削内孔能力 inner grind ability	mm	-
最大工件重量 max. loading	kg	3000
顶尖规格 Centers		#80

系列外圆磨床特点简介



- Advance XZ axis feed equipment:** 先进的XZ轴进给机构：
- Electronic hand wheel(MPG) for manual feed.
 - XZ axis feed standard equipped with ball screw and drove by servo motor, considerably less errors, great smoothly motion, and standard equipped with PLC + HMI as control system.
 - Linear guide way adopted on wheel head feed(X axis) for smoothly moving, great rigidity and fast response speed
- 配备电子手轮取代传统机械手轮实现极轻松的手动进给操作。
- XZ 轴标配精密滚珠丝杆加伺服电机传动，具有精度高，故障低，进给平顺等诸多优点。
- 砂轮架前后进给（X轴）标配直线导轨，以获得优异的进给精度，高刚性以及快速响应。

- New design machine structure:**
- Optimization design (FEA) is the key to improve the machine precision and rigidity.
 - All new designed machine structure make it with great excellent working performance.
- 先进的机械结构设计：**
- 机床的主要结构件均采用先进的有限元分析进行优化设计，提升机床的整体刚性和工作精度。
 - 全新设计的机械结构使得该系列圆磨具有远超传统圆磨的优异工作性能。

- High precision Spindle unit:**
- High precision bearing spindle unit with high rigidity, maintenance-free, long working life
 - UCG series machine standard equipped with high speed Inside grinding spindle unit
- 高精度主轴单元：**
- 采用超精密滚动轴承支撑的主轴单元具有高刚性、高回转精度、免维护、精度寿命长久等优点。
 - UCG 系列圆磨标配高速内磨主轴单元，可以磨削内孔，进一步拓展了机床的功能。

- Unprecedented easy operating experience:**
- Genius built-in Multi-process Menu. the experience unprecedented of operating on cylinder grinding machine! The advanced technology of servo drive and PLC, HMI bring the machine new multi-functions.
 - Various kinds of operating mode were built in the HMI, our engineers genius ideas make the machine operating is so easy!
- 前所未有的便捷操控体验：**
- 电气工程师精心开发的功能丰富的磨削控制菜单，内嵌于PLC和触摸屏中，无需编程，即使是习惯于操作传统磨床的老师傅，也可以即时享受前所未有的轻松便捷操作体验。而且各种常用磨削控制菜单，极大地丰富了传统圆磨的功能，使工作更高效，劳动强度极大降低。也使一人值守多机成为可能。

Smart Cylinder Grinding Machine

Your advantages:

- No complicated mechanical structure!
- No hydraulic system breakdown, leakage!
- No heavy and difficult operating!

从此您不再为此烦恼:

- 没有复杂的机械结构!
- 没有液压系统的各种失灵、滴、漏!
- 没有复杂而繁重的操作!

It's time to
redefine cylinder grinder
是时候由我们来重新
定义外圆磨床了!



Luxury semi-closed guard and new designed structure make the machine with unprecedented high level on protecting, anti-splashing, no leakage
全新设计的结构配合豪华半封闭护罩，带来前所未有的三防水平，彻底杜绝跑冒滴漏。

Standard Equipment:

Luxury semi-closed guard	Center	Wheel dresser
Balance stand and arbor	Wheel extractor	Opensteady rest
Wheel flange	Coolant Tank	Grinding wheel
3-jaw chuck	Center lubricate unit	Toolbox and tools
Working lamp	Extension shaft	MPG & HMI
Leveling bolt and wedge	Measuring bridge plate	Operating manual

标准随机附件:

豪华半封闭防护罩	硬质合金顶尖	金刚笔架
砂轮平衡架及芯轴	卸砂轮工具	开式中心架
标准砂轮法兰盘	冷却水箱	标准砂轮
3爪卡盘	中央润滑单元	工具箱及工具
工作灯	接长轴	电子手轮+HMI
调平垫铁	测量桥板	操作手册

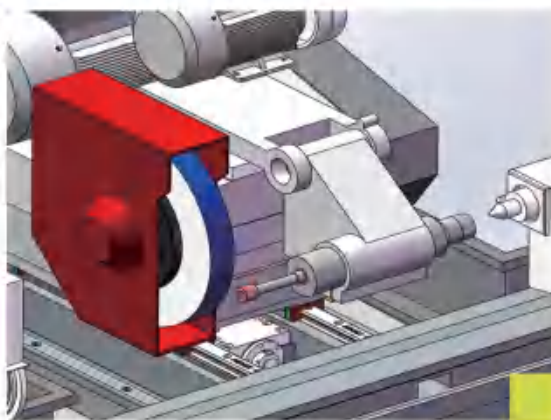
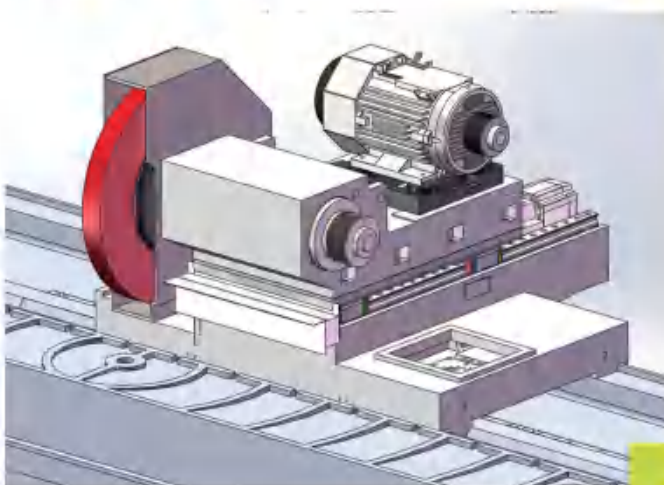
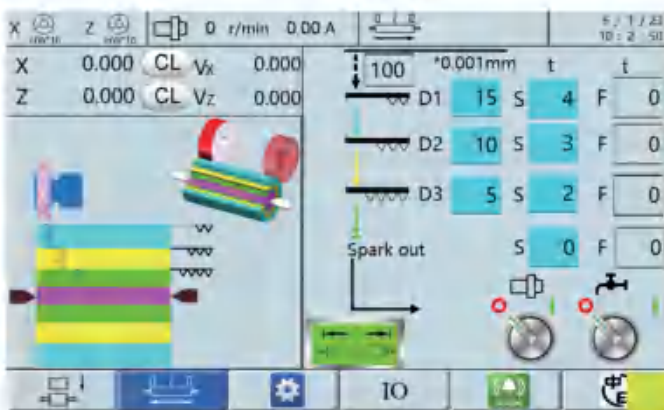
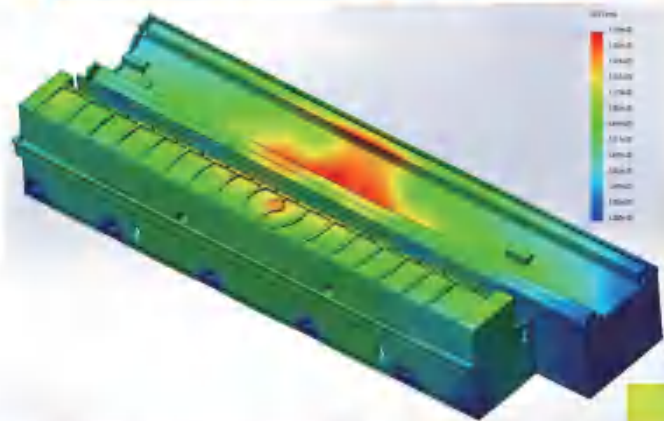
UCG series universal cylinder grinding machine

项目 Item	型号 Model	UCG2060NC	UCG2080NC	UCG32100NC	UCG32150NC
►加工能力 Working capacity					
中心高 Center height	mm	135	135	180	180
磨削外圆直径范围 Grinding diameter (external)	mm	8~200	8~200	8~320	8~320
磨削外圆最大长度 Grinding length (external)	mm	600	800	1000	1500
磨削内孔范围 Grinding hole diameter(inner)	mm	25 ~ 100	25 ~ 100	25 ~ 100	25 ~ 100
磨削内孔深度 Grinding depth(inner)	mm	125	125	125	125
最大工件重量 Max. work piece	kg	100	100	150	150
►工作台 Working table (Z axis)					
纵向行程 Worktable travel	mm	800	1000	1200	1700
移动速度 Worktable rapid feed speed	mm/min	1~6000	1~6000	1~6000	1~6000
最小进给单位 Worktable fine feed rate	mm	0.001	0.001	0.001	0.001
回转角度 Worktable swivel range	deg	-2 ~ 9	-2 ~ 9	-2 ~ 9	-2 ~ 7
►砂轮架 Grinding wheel head (X axis)					
移动速度 Cross feed rapid speed	mm/min	1~6000	1~6000	1~6000	1~6000
最小进给单位 Cross feed rate	mm	0.001	0.001	0.001	0.001
回转角度 Wheelhead swivel range	deg	-10	-10	-10	-10
砂轮主轴转速 Wheelhead spindle speed	r/min	2140	2140	2140	2140
砂轮尺寸 Grinding wheel dimensions	mm	400×50×203	400×50×203	400×50×203	400×50×203
砂轮线速度 Grinding wheel peripheral speed	m/s	45	45	45	45
►头架 Workhead					
主轴转速范围 Spindle speed range	r/min	25~500	25~500	25~500	25~500
回转角度 Workhead swivel range	deg	0 ~ 90	0 ~ 90	0 ~ 90	0 ~ 90
中心锥度 Center taper	MT	#4	#4	#4	#4
►尾架 Tailstock					
套筒手动移动量 Quill manual travel range	mm	30	30	30	30
中心锥度 Center taper	MT	#4	#4	#4	#4
套筒驱动方式 Quil engine drive mode		pneumatic	pneumatic	pneumatic	pneumatic
►电动机 Motor					
砂轮主轴电机功率 Wheelhead spindle motor	kw	4	4	4	4
头架主轴电机功率 Workhead spindle motor	kw	0.75	0.75	1.5	1.5
XZ轴伺服电机功率 X/Z axis drive servo motor	kw	1.5	1.5	1.5	1.5
冷却泵功率 Coolant pump	kw	0.125	0.125	0.125	0.125
机床总功率 Total power capacity	KVA	11	11	12	12
►机床 Machine					
占地面积L×W×H Floor space	cm	303x202x200	349x202x200	391x210x200	506x210x200
包装尺寸L×W×H Package dimensions	cm	311x213x180	357x213x180	401x220x180	516x220x180
机床重量 Machine weight	kg	2660	2960	3160	3660
►内圆磨具 Inner grinding device					
主轴电机功率 Spindle motor power	kw	1.1			
主轴转速 Spindle speed	r/min	10000			
砂轮尺寸 Grindwheel dimensions	mm	30×25×10			

CG series cylinder grinding machine

项目 Item	型号 Model	CG2060NC	CG2080NC	CG32100NC	CG32150NC
►加工能力 Working capacity					
中心高 Center height	mm	135	135	180	180
磨削外圆直径范围 Grinding diameter (external)	mm	8~200	8~200	8~320	8~320
磨削外圆最大长度 Grinding length(external)	mm	600	800	1000	1500
磨削内孔范围 Grinding hole diameter(inner)	mm	-	-	-	-
磨削内孔深度 Grinding depth(inner)	mm	-	-	-	-
最大工件重量 Max. work piece	kg	100	100	150	150
►工作台 Working table (Z axis)					
纵向行程 Worktable travel	mm	800	1000	1200	1700
移动速度 Worktable rapid feed speed	mm/min	1~6000	1~6000	1~6000	1~6000
最小进给单位 Worktable fine feed rate	mm	0.001	0.001	0.001	0.001
回转角度 Worktable swivel range	deg	-2 ~ 9	-2 ~ 9	-2 ~ 9	-2 ~ 7
►砂轮架 Grinding wheel head (X axis)					
移动速度 Cross feed rapid speed	mm/min	1~6000	1~6000	1~6000	1~6000
最小进给单位 Cross feed rate	mm	0.001	0.001	0.001	0.001
回转角度 Wheelhead swivel range	deg	-10	-10	-10	-10
砂轮主轴转速 Wheelhead spindle speed	r/min	2140	2140	1700	1700
砂轮尺寸 Grinding wheel dimensions	mm	400×50×203	400×50×203	500×50×203	500×50×203
砂轮线速度 Grinding wheel peripheral speed	m/s	45	45	45	45
►头架 Workhead					
主轴转速范围 Spindle speed range	r/min	25~500	25~500	25~500	25~500
回转角度 Workhead swivel range	deg	0 ~ 90	0 ~ 90	0 ~ 90	0 ~ 90
中心锥度 Center taper	MT	#4	#4	#4	#4
►尾架 Tailstock					
套筒手动移动量 Quill manual travel range	mm	30	30	30	30
中心锥度 Center taper	MT	#4	#4	#4	#4
套筒驱动方式 Quil engine drive mode		pneumatic	pneumatic	pneumatic	pneumatic
►电动机 Motor					
砂轮主轴电机功率 Wheelhead spindle motor	kw	4	4	5.5	5.5
头架主轴电机功率 Workhead spindle motor	kw	0.75	0.75	1.5	1.5
XZ轴伺服电机功率 X/Z axis drive servo motor	kw	1.5	1.5	1.5	1.5
冷却泵功率 Coolant pump	kw	0.125	0.125	0.125	0.125
机床总功率 Total power capacity	KVA	11	11	13	13
►机床 Machine					
占地面积L×W×H Floor space	cm	303x202x200	349x202x200	391x210x200	506x210x200
包装尺寸L×W×H Package dimensions	cm	311x213x180	357x213x180	401x220x180	516x220x180
机床重量 Machine weight	kg	2660	2960	3160	3660

系列大型外圆磨床简介 Introduction of series large grind machine



New design machine structure:

- The machine is designed with fixed work table and X/Z axis moving grind head, this structure with many advantages.
- Optimization design (FEA) is the key to improve the machine precision and rigidity.
- All new designed machine structure make it with great excellent working performance.

全新设计的机床结构:

- 该系列机床采用全新的设计结构, 即工作台固定, 砂轮架作纵向移动, 这种结构相较于传统的工作台移动式, 有诸多优点。
- 机床主要部件采用先进的有限元分析进行优化设计, 为精密磨削提供超级稳定性。
- 全新的传动设计使得该系列机床具有优异的工作表现。

Unprecedented easy operating experience:

- Genius built-in Multi-process Menu, the experience unprecedented of operating on cylinder grinding machine! The advanced technology of servo drive and PLC, HMI bring the machine new multi-functions and so easy operation.

先进的功能与前所未有的友好操作表现:

- 先进的伺服 + PLC + 触摸屏系统带来前所未有的操作便利性和自动磨削控制。
- 彩色触屏内嵌工程师精心开发的各种磨削控制菜单, 让工作变得如此简便而高效!

Advance XZ axis feed equipment:

- Electronic hand wheel(MPG) for manual feed
- XZ axis feed standard equipped with ball screw and drove by servo motor, considerably less errors, great smoothly motion, and standard equipped with PLC+HMI as control system
- Linear guide way adopted on wheel head feed(X axis) for smoothly moving, great rigidity and fast response speed

先进的 X/Z 轴进给机构:

- X/Z 轴标配交流伺服电机传动, 运动更精准更平顺, 采用 PLC+ 触摸屏控制系统。
- 砂轮进给进给 (X 轴) 采用直线导轨, 具有高精度, 高刚性, 响应速度快等优点。
- 标配电子手轮, 让手动操作相较传统磨床变得极为轻松简便。

High precision Spindle unit:

- High precision bearing spindle unit with high rigidity, maintenance-free, long working life
- UCG series machine standard equipped with high speed Inside grinding spindle unit

高精度主轴单元:

- 外磨主轴采用超精密角接触轴承结构, 具有高精度, 高刚性, 免维护, 使用寿命长等优点。(全系列可选配先进的动静主轴单元)
- UCG 系列标配高速内磨主轴单元。

系列大型外圆磨床 Introduction of series large grind machine

Your advantages:

- No complicated mechanical structure!
- No hydraulic system breakdown, leakage!
- No heavy and difficult operating!

*It's time to
redefine cylinder
grinding machine !*



Luxury semi-closed guard and new designed structure make the machine with unprecedented high level on protecting, anti-splashing, no leakage

采用砂轮架移动结构, 而非传统的工作台移动式结构, 有诸多优点:

- 机身整体刚性、稳定性更强, 尤其适合于重载重切的工况
- 固定式工作台, 更适合大承重的工况, 不会因负载的变化而影响精度
- 节省至少三分之一的工作场地占用

The machine is designed with fixed work table and X/Z axis moving grind head, this structure with many advantages:

- Machine bed with super great rigidity and stability
- Fixed work table is better fit for heavy load and variable load
- one-third(1/3) working field saving of the size of work table moving machine.

Standard Equipment:

Luxury semi-closed guard	Center	Wheel dresser
Balance stand and arbor	Wheel extractor	Opensteady rest
Wheel flange	Coolant Tank	Grinding wheel
3-jaw chuck	Center lubricate unit	Toolbox and tools
Working lamp	Extension shaft	MPG & HMI
Leveling bolt and wedge	Measuring bridge plate	Operating manual

UCG series universal cylinder grinding machine

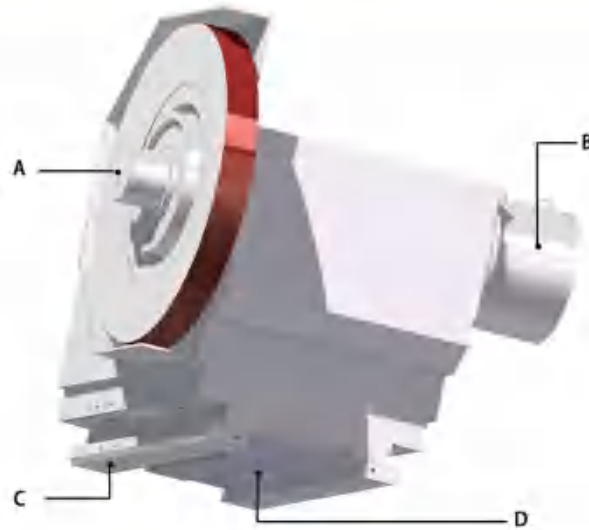
项目 Item		型号 Model	UCG32200NC	UCG40200NC	UCG50150NC	UCG63200NC
			UCG32600NC	UCG40600NC	UCG50600NC	UCG63600NC
►加工能力 Working capacity						
中心高	Center height	mm	180	210	270	370
磨削外圆直径范围	Grinding diameter (external)	mm	10~320	15~400	25~500	30~630
磨削外圆最大长度	Grinding length (external)	mm	2000~6000	2000~6000	1500~6000	2000~6000
磨削内孔范围	Grinding hole diameter(inner)	mm	30 ~ 100	30 ~ 100	30 ~ 200	30 ~ 200
磨削内孔深度	Grinding depth(inner)	mm	125	125	320	320
最大工件重量		kg	500	500	2500	3000
►拖板左右移动 Saddle L/R feed (Z axis)						
纵向行程	Wheel head cross travel	mm	1600~6100	1600~6100	1600~6100	2200~6200
移动速度	Wheel head rapid feed speed	mm/min	1~6000	1~6000	1~6000	1~6000
最小进给单位	Micro feed rate	mm	0.001	0.001	0.001	0.001
工作台回转	Worktable swivel ability		可回转 (can rotate)			
►砂轮架 Grinding wheel head (X axis)						
移动速度	Cross feed rapid speed	mm/min	1~6000	1~6000	1~4000	1~4000
最小进给单位	Cross feed rate	mm	0.001	0.001	0.001	0.001
砂轮主轴转速	Wheelhead spindle speed	r/min	1700	1700	1450	1450
砂轮尺寸	Grinding wheel dimensions	mm	500×50×203	500×50×203	600×75×305	600×75×305
砂轮线速度	Grinding wheel peripheral speed	m/s	45	45	45	45
►头架 Workhead						
主轴转速范围	Spindle speed range	r/min	20~260	20~260	10~100	10~100
回转角度	Workhead swivel range	deg	0 ~ 90	0 ~ 90	0 ~ 90	0 ~ 90
中心锥度	Center taper		MT5	MT5	MT6	#80
►尾架 Tailstock						
套筒手动移动量	Quill manual travel range	mm	30	30	70	70
中心锥度	Center taper		MT5	MT5	MT6	#80
套筒驱动方式	Quil engine drive mode			手动/manual		
►电动机 Motor						
砂轮主轴电机功率	Wheelhead spindle motor	kw	5.5	5.5	11	11
头架主轴电机功率	Workhead spindle motor	kw	1.5	1.5	4	4
XZ轴伺服电机功率	X/Z axis drive servo motor	kw	1.5	1.5	2.2	2.2
冷却泵功率	Coolant pump	kw	0.125	0.125	0.18	0.18
机床总功率	Total power capacity	KVA	12	12	18	22
►机床 Machine						
占地面积L×W×H	Floor space	cm	350~900 ×200×180	350~900 ×220×200	450~900 ×250×200	500~900 ×280×200
机床重量	Machine weight	kg	5000~10000	5200~11000	8000~19000	13000~25000
►内圆磨具 Inner grinding device						
主轴电机功率	Spindle motor power	kw	1.1	1.1	1.5	1.5
主轴转速	Spindle speed	r/min	10000	10000	10000	10000
砂轮尺寸	Grindwheel dimensions	mm	30×25×10	30×25×10	30~175×25×10	30~175×25×10

CG series cylinder grinding machine

项目 Item		型号 Model	CG40200NC	CG50150NC	CG63200NC	CG80300NC
			CG40600NC	CG50600NC	CG63600NC	CG80600NC
►加工能力 Working capacity						
中心高	Center height	mm	210	270	370	500
磨削外圆直径范围	Grinding diameter (external)	mm	15~400	25~500	30~630	50~800
磨削外圆最大长度	Grinding length (external)	mm	2000~6000	1500~6000	2000~6000	3000~6000
磨削内孔范围	Grinding hole diameter(inner)	mm	-	-	-	-
磨削内孔深度	Grinding depth(inner)	mm	-	-	-	-
最大工件重量		kg	500	2500	3000	3000
►拖板左右移动 Saddle L/R feed (Z axis)						
纵向行程	Wheel head cross travel	mm	1600~6100	1600~6100	2200~6200	3200~6200
移动速度	Wheel head rapid feed speed	mm/min	1~6000	1~4000	1~4000	1~4000
最小进给单位	Micro feed rate	mm	0.001	0.001	0.001	0.001
工作台回转	Worktable swivel ability		可回转 (can rotate)			
►砂轮架 Grinding wheel head (X axis)						
移动速度	Cross feed rapid speed	mm/min	1~6000	1~4000	1~4000	1~4000
最小进给单位	Cross feed rate	mm	0.001	0.001	0.001	0.001
砂轮主轴转速	Wheelhead spindle speed	r/min	1450	1145	1145	960
砂轮尺寸	Grinding wheel dimensions	mm	600×75×305	750×75×305	750×75×305	900×75×305
砂轮线速度	Grinding wheel peripheral speed	m/s	45	45	45	45
►头架 Workhead						
主轴转速范围	Spindle speed range	r/min	20~260	10~100	6~60	5~50
回转角度	Workhead swivel range	deg	-	-	-	-
中心锥度	Center taper		MT5	MT6	#80	#80
►尾架 Tailstock						
套筒手动移动量	Quill manual travel range	mm	30	70	70	70
中心锥度	Center taper		MT5	MT6	#80	#80
套筒驱动方式	Quil engine drive mode			手动/manual		
►电动机 Motor						
砂轮主轴电机功率	Wheelhead spindle motor	kw	7.5	15	15	22
头架主轴电机功率	Workhead spindle motor	kw	1.5	4	4	4
XZ轴伺服电机功率	X/Z axis drive servo motor	kw	2.2	2.2	2.2	2.2
冷却泵功率	Coolant pump	kw	0.125	0.18	0.18	0.18
机床总功率	Total power capacity	KVA	15	25	25	32
►机床 Machine						
占地面积L×W×H	Floor space	cm	350~900 ×220×200	450~900 ×250×200	500~900 ×280×200	700~900 ×280×200
机床重量	Machine weight	kg	5200~11000	8000~19000	13000~25000	18000~28000

丰富的定制功能，包含各种先进技术应用，为行业提供高效率解决方案。

1



A
砂轮在线动平衡功能
systems for balancing
grind wheel



B
直驱砂轮主轴系统
Electric wheel spindle
unit



C
X轴静压导轨

先进的静压润滑系统极大地提高了砂轮架进给的平顺性和进给精度，优越的减振性，降低由于导轨发热而产生的热变形。导轨无磨损，精度寿命长久。



X axis adopt hydrostatic lubricate guideway, great improve the move smoothness and feed accuracy, super shock absorption, and reduced thermal deformation caused by guide way heating. the guide without wear and keep precision long life.

D
X轴直线电机驱动

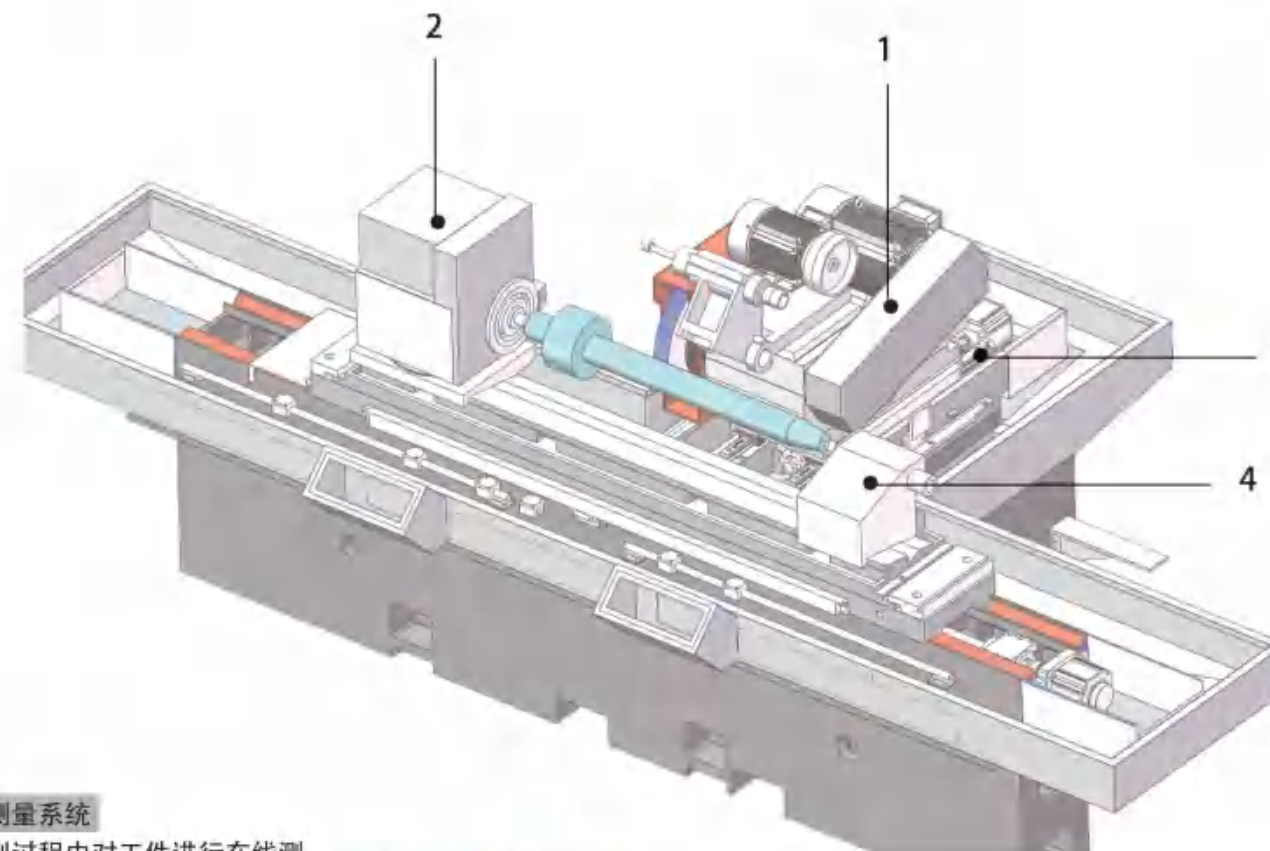
直线电机驱动使得砂轮运动具有极高的响应速度和进给精度，实现随动磨削。

X axis with linear motor drive system, with high response speed and feed accuracy, which can achieve dynamic grinding.



2

伺服电机驱动头架，在数控系统控制下可实现C轴与XZ轴联动功能。
Servo motor drive work head system, realize C axis and XZ axis linkage.



在线测量系统

在磨削过程中对工件进行在线测量，能有效优化磨削速度，确保尺寸精度。

超声波传感器 (AE)

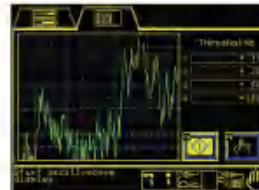
超声波传感器适用于预防碰撞，消空程使砂轮快速接近工件表面或修整器，从而缩短加工时间。

In-process gauging system

workpiece gauging during the grinding allows optimisation of grinding and removal speeds, parts with excellent finished surface and size tolerance.

Acoustic sensors(AE)

acoustic sensors are particularly useful for prevent crash, detects approaching obstacles then reduce machining times.



3

XZ轴全闭环控制光栅尺

进给轴采用光栅尺闭环控制，可以检测机械运动误差并在控制系统中进行修正，提高定位精度。
XZ axis linear encoder to realize closed loop control, transfer errors from the mechanics can be detected by linear encoder, improve the feed and positioning accuracy.



4

尾座气浮系统

尾座底部设计气浮装置，使其沿工作台导轨左右移动更轻快，减少磨损。

尾座微调锥度机构

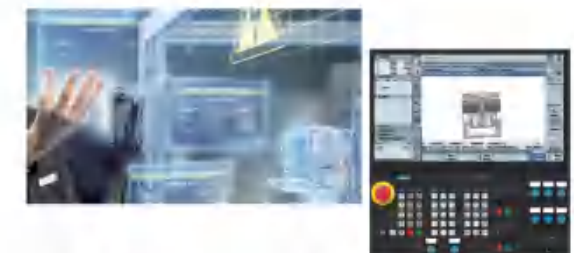
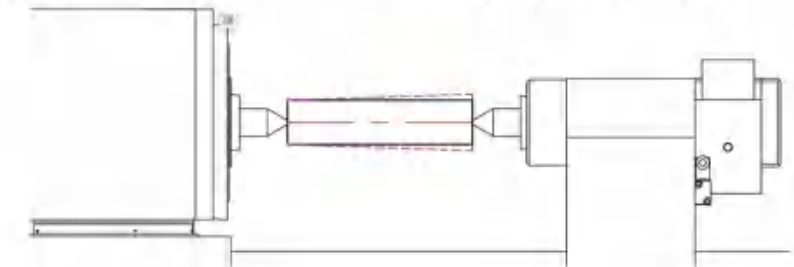
尾座精密微调机构可以对圆柱度进行0.3 μm级别的精确修正。

Air cushion lift system

tail stock base have air lift structure to ensure easy, quick movement, reduce gruide wear

Taper adjustable mechanism

the tailstock with optional fine taper correction adjust mechanism, manually adjusted in 0.3μm.

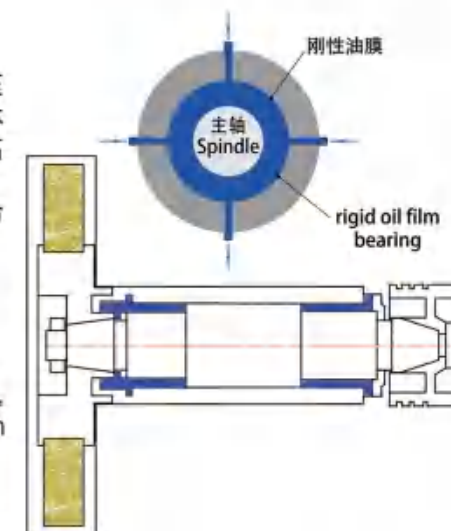


动静压砂轮主轴

砂轮架主轴可以选配先进的动静压主轴。采用静压与动压结合的流体轴承，具有高刚性、低振动、超高回转精度 ($\leq 1\mu m$) 等优点，而且由于没有金属直接接触，精度寿命更长。

Hydrostatic bearing spindle unit

Optional equipped hydrostatic & hydrodynamic pressure oil bearing spindle unit, with super high rigidity, low vibration and great high rotation accuracy ($\leq 1\mu m$), due to the absence of metal contact friction, the precision life are long-lasting.



简单易用而又功能强大的数控系统

新代、西门子、发那科等主流数控系统均可在系列圆磨产品上发挥出卓越性能。电气工程师精心开发的常用磨削功能图形交互菜单，可以让操作变得非常简单，无需操作者输入复杂的程序代码，提高工作效率。

Simple and easy, powerful CNC system

SYNTEC, SIEMENS, FANUC, among other mainstream CNC system, can exhibit outstanding performance on series grinding machine. The graphic interactive menu developed by our engineers allows for extremely simple operation, the operator does not need to input complex program codes and improves work efficiency.

外圆磨床附件 Equipment of Cylinder grinding machine

标准附件 standard accessories



工具箱及套工具
tool box and tools



调平垫铁
leveling wedge



外圆/端面修整器
face/end dresser



冷却水箱
coolant tank



3爪卡盘
3-jaw chuck



标准砂轮和法兰
wheel flange and wheel



卸砂轮扳手
wheel extractor



鸡心夹
driving dog



硬质合金顶尖
center



平衡轴
balancing shaft



工作灯
working lamp

常用特殊附件 Optional accessories



平衡架
balancing stand



开式中心架
open rest



闭式中心架
closed steady rest



圆弧修整器
radius dresser



4爪卡盘
4-jaw chuck



半圆顶尖
gap center



金刚笔
diamond pen



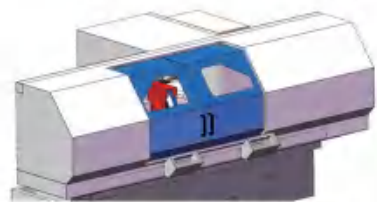
磁性分离
magnetic separator



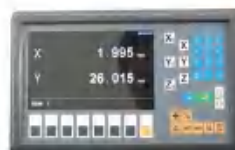
纸带过滤
paper filter



磁辊纸带过滤
magnetic separator&paper filter

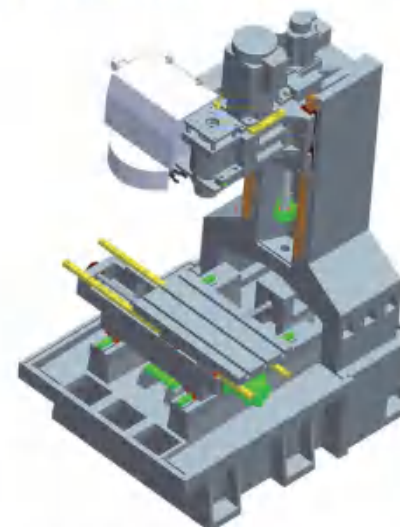


豪华全封闭护罩
luxury closed safe guard



数显尺
digital readout

VMC400系列迷你立式加工中心机 VMC400smart series VMC



- premium linear guides and powerful servo drives on all axes
- High quality cast-iron machine body make sure high precision and long working life
- Enclosed guard around work space ensures maximum safety and flexibility
- Standard equipped with Siemens 808D control system, ATC, auto. central lubricate unit

- 三轴均采用直线导轨、交流伺服电机驱动
- 重要结构件设计优化并配合高质量的铸件，保证机床的精度及使用寿命
- 全封闭护罩使机床不但外形美观，操作更安全，环境更友好
- 机床标配西门子808D数字控制系统、斗笠式刀库、中央自动润滑系统。

Standard Equipment:

Siemens 808D control system, 8-station tool changer(ATC), MPG, enclosed guard, work lamp, central lubricate unit, cooling system, toolbox and operating tools, clamping kits, operating manual

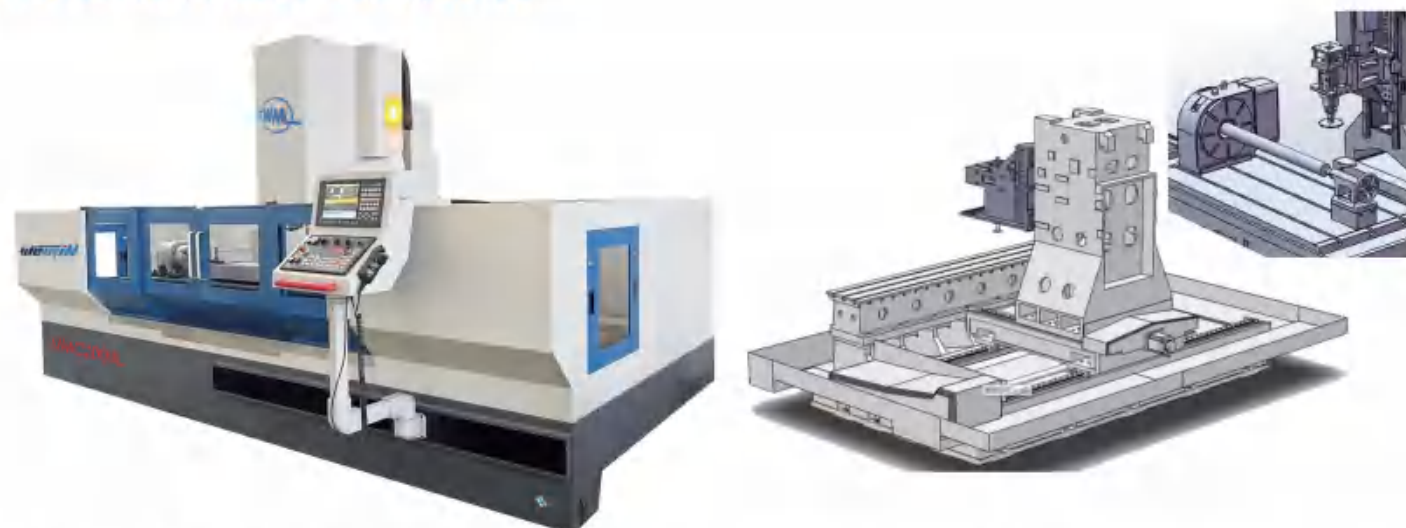
标准附件:

西门子808D控制系统、斗笠式刀库(8T)、电子手轮、全封闭护罩、工作灯、中央润滑系统、冷却系统、工具箱及工具、组合压板、操作说明书

Specifications(机床主要参数)

Work Table 工作台	Table size (工作台尺寸)	mm	300x600
	T slots NxWxP (T型槽数量x宽度x间距)	mm	3x14x100
	Table load capacity (工作台承重)	kg	150
Travel 行程	X/Y/Z travel (X/Y/Z轴行程)	mm	400/300/450
	Spindel nose to table surface (主轴鼻端到工作台面距离)	mm	100~580
Feed 进给	X/Y/Z rapid speed (X/Y/Z轴快移速度)	m/min	12/12/10
	X/Y/Z feed speed (X/Y/Z轴进给速度)	mm/min	1-10000
	X/Y/Z servo motor power (X/Y/Z伺服电机功率)	kw	0.75/0.75/1
Spindle 主轴	Spindle taper (主轴锥度)		BT30(optional: BT40)
	Spindle speed (主轴转速)	r/min	6000(optional:8000-12000)
	Spindle motor power (主轴电机功率)	kw	2.2 (optional:3.75)
ATC 刀库	ATC type (换刀方式)		armless
	Tool size Dia.xL (最大刀具尺寸)	mm	50/120x200
	Tool weight (最大刀具重量)	kg	3
	Tool magazine capacity (刀具容量)		8T (optional 10/12T)
Accuracy 精度	Tool change time T-T (换刀时间)	sec.	7
	Positioning (定位精度)	mm	0.01
Power Supply 电源/气源	Repeatability (重复定位精度)	mm	0.01
	Air pressure required (气源要求)	kg/cm ²	4~8
Dimensions/Weight 尺寸/重量	Total electric power (总功率)	KVA	10
	Package size (包装尺寸)	mm	2100x1900x2450
	Floor space (占地面积)	mm	2000x1900x2800
	Machine weight (机床重量)	kg	2300

VMC3000L立式加工中心机 VMC3000L Vertical machining center



- premium linear guides and powerful servo drives on all axes
- High quality cast-iron machine body make sure high precision and long working life
- Semi-Enclosed guard around work space ensures maximum safety and flexibility
- Standard equipped with Syntec control system, auto. central lubricate unit
- 三轴均采用直线导轨、交流伺服电机驱动
- 重要结构件设计优化并配合高质量的铸件，保证机床的精度及使用寿命
- 半封闭护罩使机床不但外形美观，操作更安全，环境更友好
- 机床标配台湾新代数字控制系统、中央自动润滑系统。

Standard Equipment:

Taiwan Syntec control system, MPG, semi-enclosed guard, work lamp, central lubricate unit, cooling system, toolbox and operating tools, clamping kits, operating manual

标准附件:

台湾新代数控系统，电子手轮，半封闭式护罩，工作灯，中央润滑系统，冷却系统，工具箱及工具，组合压板，操作说明书，系统说明书。

Specifications(机床主要参数)

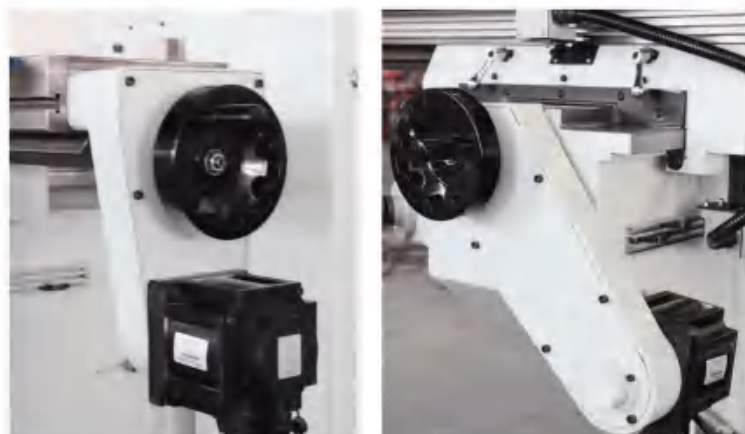
Work Table 工作台	Table size (工作台尺寸)	mm	400x3000
	T slots NxWxP (T型槽数量x宽度x间距)	mm	3x18x125
	Table load capacity (工作台承重)	kg	2000
Travel 行程	X/Y/Z travel (X/Y/Z轴行程)	mm	2000/400/450
	Spindle nose to table surface (主轴鼻端到工作台面距离)	mm	150 ~ 600
Feed 进给	X/Y/Z rapid speed (X/Y/Z轴快移速度)	m/min	24/24/24
	X/Y/Z feed speed (X/Y/Z轴进给速度)	mm/min	1-15000
	X/Y/Z servo motor power (X/Y/Z伺服电机功率)	kw	4 / 4 / 5
Spindle 主轴	Spindle taper (主轴锥度)		BT40(optional: BT50)
	Spindle speed (主轴转速)	r/min	6000(optional:8000-12000)
	Spindle motor power (主轴电机功率)	kw	7.5/11 (optional:11/15)
刀库 (选配) ATC (Optional)	ATC type (换刀方式)		机械手 (arm type)
	Tool size Dia.xL (最大刀具尺寸)	mm	50/130x200
	Tool weight (最大刀具重量)	kg	10
	Tool magazine capacity (刀具容量)		24T
	Tool change time T-T (换刀时间)	sec.	2.5
Accuracy 精度	Positioning (定位精度)	mm	0.025/0.01/0.01
	Repeatability (重复定位精度)	mm	0.015/0.005/0.005
Power Supply 电源/气源	Air pressure required (气源要求)	kg/cm ²	4~8
	Total electric power (总功率)	KVA	10
Dimensions/Weight 尺寸/重量	Package size (包装尺寸)	mm	4200x2500x2600
	Floor space (占地面积)	mm	4200x2500x2800
	Machine weight (机床重量)	kg	8000

XK系列升降台数控铣床 XK Series Knee type CNC milling machine



项目 Item / 型号 Model			单位/Unit	XK6323B	XK6325	XK6325C	XK6325D	XK6330	XK6330A
工作台面积 Table size			mm	230 × 1067	254 × 1270			305 × 1370	
				230 × 1246	254 × 1370			305 × 1500	
T型槽 T slots				3 × 16					
工作台承重 Table loading			kg	200	280			350	
X 轴（工作台纵向）行程 X axis (table longitudinal move) travel			mm	550	750			800	
				740	850			900	
Y 轴（工作台前后）行程 Y axis (table cross move) travel			mm	300	400	400	400	360	360
Z 轴行程（铣头套筒进给） Z axis (Quill move) travel			mm	103					
X/Y/Z 轴快速进给 X/Y/Z axis rapid feed			mm/min	5000					
X/Y/Z 轴伺服电机功率 X/Y/Z axis servo motor			kW	1					
升降台垂直行程 Knee vertical travel			mm	350	400			380	
伸缩臂行程 Ram travel			mm	315	470			500	
主轴端面至台面距离 Distance from spindle to table			mm	0-350	0-400			0-380	
铣头 Milling head	主轴转速 Spindle speed	标准 Standard:16 steps	rpm	50HZ:66-4540/60HZ:80-5440					
		选配 Optional:Variable		60-4200			60-3600		
	主轴锥度 Spindle taper		标准: R8 / 选配: ISO40 Standard:R8 / Optional:ISO40						
	电机功率 Motor power		HP	3HP		5HP		5HP	
	铣头回转 Head rotating	左右回转 Swiveling		±90°	±90°	±90°	±90°	±90°	±90°
		前后回转 Tilting		±45°	±45°	—	±45°	±45°	—
控制系统 CNC				广数GSK					
包装尺寸 Package size			mm	1650 × 1900 × 2000	1900 × 2000 × 2230			200 × 200 × 225	
重量 G.W.			kg	1100	1400	1600		1800	

Smart Servo Milling Machine



Advance XY axis feed equipment:

- X & Y axis standard equipped with ball screw, considerably less errors, great smoothly motion, no stick-slip effect.
- X & Y axis drove by AC servo motor
- The movement can be drove by Manual handwheel, or controlled by MPG
- XY axis rapid movement or auto. feed movement.

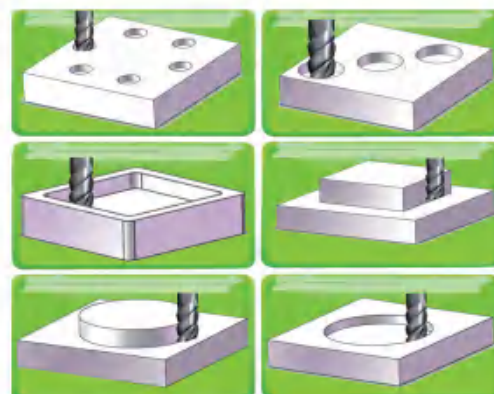


Unprecedented Easy Operating Experience:

- the experience unprecedented of operating on turret milling machine! the advanced technology of Servo drive and PLC, HMI (colourful touch screen) bring the machine New multi-functions.
- the XY axis movement is controlled by PLC and HMI, and our engineer's genius programed operating menu is built-in.
- free of G code program, free of hard manual working, free of complex operating! Every thing become simple, easy and friendly.
- the machine is still a universal turret milling machine but with new upgrade life!

Genius built-in Multi-process Menu:

- various kinds operating mode were built-in the HMI
 - ✓ outside square cutting ✓ inner square cutting
 - ✓ outside cylinder cutting ✓ inner cylinder cutting
 - ✓ linear multi-holes drilling ✓ circle multi-holes drilling



Smart Servo Milling Machine

Your advantages:

- Automatic feed on X & Y axis
rapid feed speed: 0~1500mm/min
- Micro fine manual feed on X & Y axis
micro feed of MPG: 0.005mm/div
- Bring rich pleasure working on the mill
what you imaged what it can do

New design Smart servo
turret milling
machine!



Note:
The smart servo milling function can be available to
all series of turret milling machine.

X6323系列 / X6323 Series

X6323A

Z轴: 燕尾轨
Y轴: 燕尾轨
Z axis: dovetail way
Y axis: dovetail way



X6323B

Z轴: 燕尾轨
Y轴: 矩形轨
Z axis: dovetail way
Y axis: box way



图片含有特殊订货附件
the photo shows including
optional equipment.

Unit:mm

项目 Item / 机床型号 Mode		X6323A	X6323B
Table size 工作台面积	mm	230×1067(9×42")	230×1246(9×49")
T slot size T型槽	mm	3×16	
X axis travel 工作台纵向行程	mm	670 / 850	610 / 790
Y axis travel 工作台前后行程	mm	310	
Z axis travel 升降台垂直行程	mm	390	
Ram cross travel 铣头滑枕行程	mm	315	
Distance from spindle nose to table 主轴端面到工作台面距离	mm	0~350	
Spindle hole taper 主轴锥孔		Standar R8 (optional NT30/40) 标准R8 (选配NT30/40)	
Quill travel 主轴套筒行程	mm	127	
Spindle speed 主轴转速	r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 60-4200	
Auto quill feed 主轴自动进给量	mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")	
Spindle motor power 主轴电机功率	HP	3 (2.2KW)	
Milling head swivel 铣头左右回转		±90°	
Milling head tilting 铣头前后回转		±45°	
Dimension of package 包装尺寸	1 miller/pallet 单台包	mm	1400×1476×2030
	2 miller/pallet 双台包	mm	1450×1570×2080
	3 miller/pallet 三台包	mm	1450×2180×2080
G.W/set 毛重/台	kg	1000	1100

X6325系列 / X6325 Series

X6325A

Z轴: 燕尾轨
Y轴: 燕尾轨
Z axis: dovetail way
Y axis: dovetail way



X6325B

Z轴: 燕尾轨
Y轴: 矩形轨
Z axis: dovetail way
Y axis: box way



X6325

Z轴: 矩形轨
Y轴: 矩形轨
Z axis: box way
Y axis: box way



Unit:mm

项目 Item / 机床型号 Mode			X6325	X6325A	X6325B
Table size 工作台面积		mm	254×1270(10×50") 254×1370(10×54")		
T slot size T型槽		mm	3×16		
X axis travel 工作台纵向行程		mm	820 / 920	800 / 900	820 / 920
Y axis travel 工作台前后行程		mm	410	380	
Z axis travel 升降台垂直行程		mm	400	350	
Ram cross travel 铣头滑枕行程		mm	470		
Distance from spindle nose to table 主轴端面到工作台面距离		mm	0~400		
Spindle hole taper 主轴锥孔			Standar R8 (optional NT30/40) 标准R8（选配NT30/40）		
Quill travel 主轴套筒行程		mm	127		
Spindle speed 主轴转速		r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 60-4200		
Auto quill feed 主轴自动进给量		mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")		
Spindle motor power 主轴电机功率		HP	3 (2.2KW)		
Milling head swivel 铣头左右回转			±90°		
Milling head tilting 铣头前后回转			±45°		
Dimension of package 包装尺寸	1 miller/pallet 单台包	mm	1550×1550×2080		
	2 miller/pallet 双台包	mm	1650×1790×2170		
	3 miller/pallet 三台包	mm	1650×2185×2235		
G.W/set 毛重/台		kg	1320	1280	1300

X6325系列 / X6325 Series

X6325C

Z轴: 矩形轨

Y轴: 矩形轨

Z axis: box way

Y axis: box way



X6325D

Z轴: 矩形轨

Y轴: 矩形轨

Z axis: box way

Y axis: box way



Unit:mm

项目 Item / 机床型号 Mode		X6325C	X6325D
Table size 工作台面积	mm	254×1270(10×50")	254×1370(10×54")
T slot size T型槽	mm	3×16	
X axis travel 工作台纵向行程	mm	820 / 920	
Y axis travel 工作台前后行程	mm	410	
Z axis travel 升降台垂直行程	mm	400	
Ram cross travel 铣头滑枕行程	mm	470	
Distance from spindle nose to table 主轴端面到工作台面距离	mm	0~400	
Spindle hole taper 主轴锥孔		NT40	
Quill travel 主轴套筒行程	mm	127	
Spindle speed 主轴转速	r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 65-3750	
Auto quill feed 主轴自动进给量	mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")	
Spindle motor power 主轴电机功率	HP	5 (3.75KW)	
Milling head swivel 铣头左右回转		±90°	
Milling head tilting 铣头前后回转		FIX 固定式	±45°
Dimension of package 包装尺寸	1 miller/pallet 单台包	mm	1550×1550×2080
	2 miller/pallet 双台包	mm	1650×1790×2170
	3 miller/pallet 三台包	mm	1650×2185×2235
G.W/set 毛重/台	kg	1490	

双燕尾X6325A / double-V X6325A



New designed
X6325A with double V
slideway on Y axis, make
the machine with
more stability.



项目 Item / 机床型号 Mode		X6325A with double-V slideway	
Table size 工作台面积	mm	254×1270(10×50")	254×1370(10×54")
T slot size T型槽	mm	3×16	
X axis travel 工作台纵向行程	mm	800	900
Y axis travel 工作台前后行程	mm	400	
Z axis travel 升降台垂直行程	mm	400	
Ram cross travel 铣头滑枕行程	mm	470	
Distance from spindle nose to table 主轴端面到工作台面距离	mm	0~400	
Spindle hole taper 主轴锥孔		Standar R8 (optional NT30/40) 标准R8 (选配NT30/40)	
Quill travel 主轴套筒行程	mm	127	
Spindle speed 主轴转速	r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 60-4200	
Auto quill feed 主轴自动进给量	mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")	
Spindle motor power 主轴电机功率	HP	3 (2.2KW)	
Milling head swivel 铣头左右回转		±90°	
Milling head tilting 铣头前后回转		±45°	
Dimension of package 包装尺寸	1 miller/pallet 单台包	mm	1550×1550×2080
	2 miller/pallet 双台包	mm	1650×1800×2170
	3 miller/pallet 三台包	mm	1650×2185×2170
G.W/set 毛重/台	kg	1300	

X6330系列 / X6330 Series

X6330

Z轴: 矩形轨
Y轴: 矩形轨
Z axis: box way
Y axis: box way



X6330A

Z轴: 矩形轨
Y轴: 矩形轨
Z axis: box way
Y axis: box way



• Standard with vertical lifting motor
标配升降电机

Unit:mm

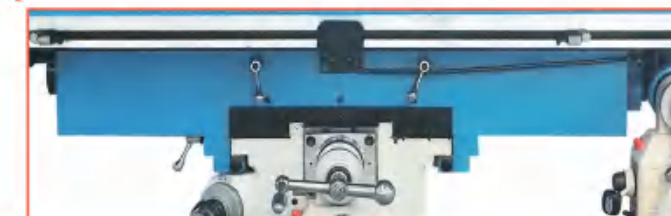
项目 Item / 机床型号 Mode		X6330	X6330A
Table size 工作台面积	mm	305×1370(12×54")	305×1500(12×58")
T slot size T型槽	mm	3×16	
X axis travel 工作台纵向行程	mm	870 / 1000	
Y axis travel 工作台前后行程	mm	360	
Z axis travel 升降台垂直行程	mm	380	
Ram cross travel 铣头滑枕行程	mm	500	
Distance from spindle nose to table 主轴端面到工作台面距离	mm	0~350	
Spindle hole taper 主轴锥孔		NT40	
Quill travel 主轴套筒行程	mm	127	
Spindle speed 主轴转速	r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 65-3750	
Auto quill feed 主轴自动进给量	mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")	
Spindle motor power 主轴电机功率	HP	5 (3.75KW)	
Milling head swivel 铣头左右回转		±90°	
Milling head tilting 铣头前后回转		±45°	FIX 固定式
Dimension of package 1 miller/pallet 单台包	mm	1566×1650×2080	
包装尺寸 2 miller/pallet 双台包	mm	1720×1800×2175	
G.W/set 毛重/台	kg	1650	

X6333系列 / X6333 Series



X6333系列标配超长床鞍, Z轴升降电机。
X6333 series standard equip with great stronger saddle, and rapid lifting motor

图片含有特殊订货附件
the photo shows including optional equipment.



项目 Item / 机床型号 Mode		X6333	X6333A
Table size 工作台面积	mm	330×1370(13×54")	330×1500(13×58")
T slot size T型槽	mm	3×16	
X axis travel 工作台纵向行程	mm	820 / 1000	
Y axis travel 工作台前后行程	mm	380	
Z axis travel 升降台垂直行程	mm	460	
Ram cross travel 铣头滑枕行程	mm	500	
Distance from spindle nose to table 主轴端面到工作台面距离	mm	0~450	
Spindle hole taper 主轴锥孔		NT40	
Quill travel 主轴套筒行程	mm	127	
Spindle speed 主轴转速	r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 65-3750	
Auto quill feed 主轴自动进给量	mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")	
Spindle motor power 主轴电机功率	HP	5 (3.75KW)	
Milling head swivel 铣头左右回转		±90°	
Milling head tilting 铣头前后回转		±45°	FIX 固定式
Dimension of package 1 miller/pallet 单台包	mm	1800×2020×2200	
包装尺寸 2 miller/pallet 双台包	mm	1800×2200×2200	
G.W/set 毛重/台	kg	2200	

轻型X6332系列 / Simple X6332 Series



轻型X6332系列标配超宽工作台，3HP铣头。以最低成本实现更大的加工范围。
the simple X6332 series standard equip with wide work table by which can realize bigger working area with low machine price.

YZ轴燕尾导轨
YZ axis dovetail way

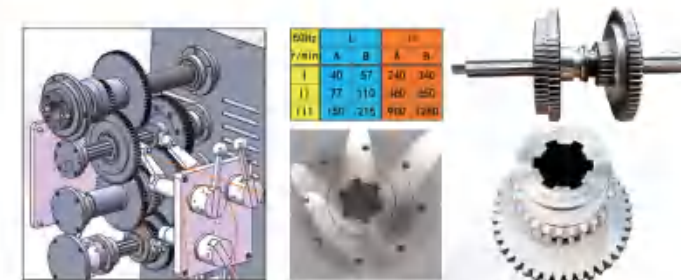


项目 Item / 机床型号 Mode		X6332	X6332L
Table size 工作台面积	mm	320×1370(12.5×54")	320×1500(12.5×58")
T slot size T型槽	mm	3×16	
X axis travel 工作台纵向行程	mm	920 / 1000	
Y axis travel 工作台前后行程	mm	360 (选配400)	
Z axis travel 升降台垂直行程	mm	350	
Ram cross travel 铣头滑枕行程	mm	470	
Distance from spindle nose to table 主轴端面到工作台面距离	mm	0~400	
Spindle hole taper 主轴锥孔		Standar R8 (optional NT30/40) 标准R8 (选配NT30/40)	
Quill travel 主轴套筒行程	mm	127	
Spindle speed 主轴转速	r/min	Standard 16 shift: 65-4500(50HZ) 80-5440(60HZ) Optional Variable speed: 60-4200	
Auto quill feed 主轴自动进给量	mm/rev	0.04(0.0015") / 0.08(0.003") / 0.15(0.006")	
Spindle motor power 主轴电机功率	HP	3 (2.2KW)	
Milling head swivel 铣头左右回转		±90°	
Milling head tilting 铣头前后回转		±45°	
Dimension of package 1 miller/pallet 单台包	mm	1550×1550×2080	
包装尺寸 2 miller/pallet 双台包	mm	1650×1800×2170	
G.W/set 毛重/台	kg	1400	

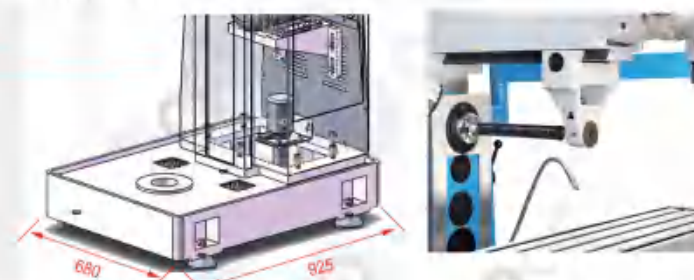
X6325/6330W系列 / X6325/6330W Series



WT model: optional with rotatable worktable



- 12 shifts speed (50~1200) can be realized by gearbox inside of machine body and supply rich selection according to various processing.
卧式主轴有12档速度（50-1200转）以满足大部分的加工需求。
- All gears are hardened and precision ground, it is important for smoothly working with high precision and low noise, with consideration of long working life.
全部采用淬火精磨齿轮，保证主轴高速运转精度高、噪音低、寿命长久。



- New designed machine body with wider size of base and column, this will increase confirmed cost of the machine, but we think the quality should be first priority, only strong structure could ensure strong stability.
全新设计的结构具有超强的机身，只有高刚性的机身才能保证机床的稳定性。

机床型号 Model		单位 unit	X6325W(X6325WT)		X6330W(X6330WT)	
工作台面积	table size	mm	254×1270	254×1370	305×1370	305×1500
工作台左右行程	table longitudinal travel	mm	820	920	880	1000
工作台前后行程	table cross travel	mm	420 (WT:390)		420 (WT:390)	
工作台上下行程	Knee vertical travel	mm	500 (WT460)		500 (WT460)	
升降台快移速度	Knee rapid speed	mm/min	345 (optional)		345	
立式主轴 vertical spindle	电机功率 motor power	HP	3HP 选配5HP (standard 3HP, optional 5HP)			
	主轴转速 speed	r/min	标准有段16速: 65~4500(standard 16 steps, 50hz: 65~4500, 60hz:80~5440) Optional: variable speed			
	主轴锥孔 taper		R8, 可选配ISO30/40 (optional ISO 30/40)			
	主轴行程 quill travel	mm	127			
	主轴进给量 quill feed rate	mm/rev	0.04 / 0.08 / 0.15			
	回转角度 head rotating		左右(R/L): 90 / 前后 (up/down) :45		左右(R/L): 90: 前后 (up/down):45 / 选配前后固定	
	主轴端面至台面距离 distance from spindle end to table	mm	0~535 (WT: 30~490)		0~535 (WT: 30~490)	
卧式主轴 horizontal spindle	电机功率 motor power	HP	5			
	主轴转速 speed	r/min	12 Shifts: 40 /57 /77 /110 /150 /215 /240 /340 /460 /650 /900 /1280			
	主轴锥孔 taper		ISO40			
	主轴中心至工作台顶面距离 distance from spindle center to table	mm	-50~410 (WT: -135~355)			
	主轴中心到滑枕导轨距离 distance from spindle center to ram way	mm	185			
滑枕移动距离	ram cross move distance	mm	640		500	
滑枕回转角度	ram rotating		180		180	
工作台回转角度	worktable rotating		- / (wt: ±35)		- / (wt: ±35)	
机床净重	netweight	kg	1550	1590	1640	1680
包装尺寸	package size (L×W×H)	cm	1set/pallet: 160×170×220 2set/pallet: 170×220×220		1set/pallet: 160×170×220 2set/pallet: 170×220×220	

附件 / Accessories

- 拉杆, 工具箱及套工具, 工作灯, 电箱, 手压油泵
draw bar, toolbox and tools, working lamp, cabinet, oil pump

- 标准附件清单 (standard accessories List)
可选配附件 (optional accessories List)



DRO
数显尺



Vise
平口钳



Clamping apparatus
组合压板



Coolant pump
冷却泵



NT30/40 collet chuck
铣夹头



R8 collet
R8弹簧夹头



Plastic splash guard
挡屑板



Chip collecting tray
接油盘



Power feed
进给器



Gear box power feed
齿轮箱进给器



Slotting head
插头



Quill feed ruler
主轴进给数字尺



Inverter head
变频铣头



spindle speed indicator
主轴转速表



Air draw bar
气动锁刀



Spindle guard
主轴防护镜



table extend bracket
工作台加长托架



luxury splashing guard
豪华防溅背板



Luxury panel bracket
豪华控制盒支架



Luxury Al-alloy panel
豪华铝合金支架



Hung up panel bracket
悬挂控制盒



Table safe guard
工作台防护罩



Luxury table guard
豪华工作台防护罩

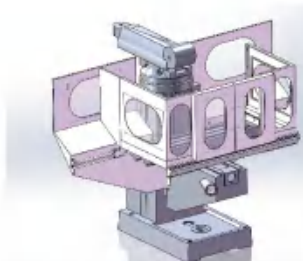


table full enclosure
工作台全防护



riser block
增高块



horizontal milling attachment
卧铣装置