

LG high performance CNC Lathe/ Turning center

LG高性能系列数控车床/ 车削中心



 **新誉集团**
New United Group

SHINRI® **新瑞**

江苏新瑞重工科技有限公司
JIANGSU SHINRI HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.

主要特点

- ☑ 本系列机床是高速、高精度、高效率、高稳定性的数控车床/车铣复合加工机床，具有高的可靠性和可扩展性，并配有自动线接口，能够很好地融入智能制造系统中。
- ☑ 整体卧式倾斜30°床身结构，床身底面宽，调平垫支撑多，导轨跨距大，为切削提供足够的刚性和稳定性，保证拥有良好的加工精度和光洁度，大的内部空间为机器人运行提供了方便，同时排屑方便，防水性能好。
- ☑ 主传动采用高性能主轴伺服电机驱动及皮带传动，主轴转速高、精度高，运行稳定，并能实现无级变速，为高加工质量提供了保证。
- ☑ 各驱动轴采用高性能带绝对值编码器交流伺服电机，与高精度滚珠丝杠直联，定位精度高，动作灵活可靠。
- ☑ 各驱动轴导轨采用贴塑导轨副，以及优良的润滑结构，刚性强，动态特性好。
- ☑ 采用容积式自动集中润滑装置，润滑充分可靠，有低位报警功能。
- ☑ 机床采用新一代先进的全封闭防护，防水性能优越，造型美观大方，拉门与主轴旋转互锁，安全可靠。
- ☑ 冷却系统提供几种选择，可提供高扬程泵，流量大，压力高，以便可获得满意的清理切屑和冷却效果。
- ☑ 数控车床配置高性能液压转塔刀架、车铣复合机床配置液压伺服转塔动力刀架，可实现双向就近快速自动换刀，动力刀台刀座形式采用先进的BMT/VDI结构，具有高强度，高刚性，高重复定位精度和易更换等特点。
- ☑ 采用中空液压动力卡盘，上下料方便。也可选用中空液压动力卡盘，选配棒料机。
- ☑ 可配置高刚性合成Y轴结构，稳定可靠。
- ☑ 可配置自动门，方便上下料，减少工人劳动强度。也可单机自动化生产或与自动线机器人等配合使用。
- ☑ 机床热源均向外辐射，减少热源对机床精度的影响，从而保证长期稳定可靠的加工精度。
- ☑ 全新的设计理念，机床设计充分考虑使用和维修方便，同时杜绝三漏现象。
- ☑ 液压尾架，标准配置为可编程套筒、活顶尖，亦可选配回转芯轴配死顶尖结构，以及整体编程尾座，方便可靠。



快速响应



国内外领先



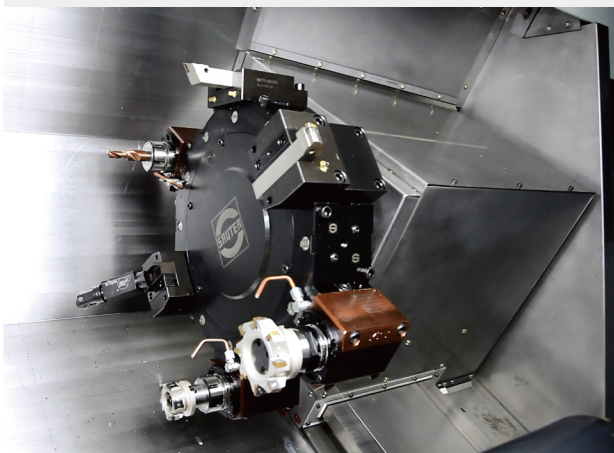
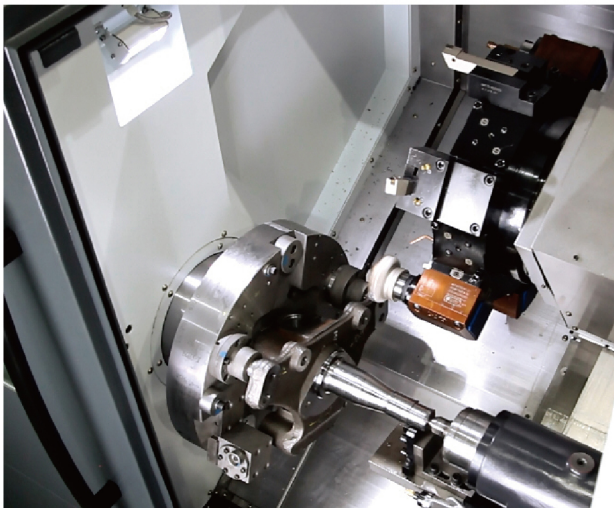
安全保障

☑ 性能**稳定**
☑ 配套**先进**



Main Feature

- ☑ It consists of CNC lathe / turning milling machine which features high speed, high precision, high efficiency, high stability, high reliability and scalability. Moreover, it has automatic line interface, and the machine can be well integrated into the intelligent manufacturing system.
- ☑ Lathe bed tilts 30° horizontally, with wide bed bottom and big guide span which can ensure good machining accuracy and surface quality, sufficient rigidity and stability for cutting. Large internal space provides convenience for robot operation and chip removal, the waterproof performances well.
- ☑ The main transmission system transmitted by belt is driven by high-performance spindle servo motor, the spindle has high speed and accuracy, operate steadily to realize continuously variable transmission, which ensures the high machining quality.
- ☑ Each drive shaft adopts high-performance AC servomotor with absolute encoder, result in high positioning accuracy ,flexible and reliable action.
- ☑ Each drive shaft adopts plastic covering guide pair with excellent lubrication structure, result in high rigidity and good dynamic performance.
- ☑ Volumetric automatic lubrication device with low-level alarm is adopted; result in sufficient and reliable lubrication.
- ☑ The machine adopts a new generation of advanced entire enclosure protection, with excellent waterproof performance , beautiful and brief shape. The slide door and spindle interlocking for safety and reliability .
- ☑ Provide several options for cooling system. Such as high lift pump which has large flow and high pressure to obtain satisfactory chip cleaning and cooling.
- ☑ CNC lathe configure high-performance hydraulic turret and turning -milling composite machine tool configures hydraulic servo power turret, which can achieve high speed automatic adjacent tool selection in double sides. The power turret adopts advanced BMT/VDI structure, with high strength, high rigidity, high repositioning accuracy and easy to replace.
- ☑ Solid hydraulic power chuck is adopted for easy loading and unloading. also can be selected with optional automatic feeding machine.
- ☑ High rigidity synthetic Y-axis structure is configurable, stable and reliable.
- ☑ Auto-door is configurable for easy loading or unloading ,reducing of labor intensity. The machine can also realize single machine automatic production or be used with automatic line robot.
- ☑ The machine heat radiating out to reduce the effects of the machine accuracy, which ensures the long-term stability of the working precision.
- ☑ The new concept of Machine design sufficiently considers the convenience of using and maintenance, prevention of the three leakage phenomenon.
- ☑ Hydraulic tail frame with programmable socket, live center is standard configuration. Structure of rotary spindle with dead center and programmable tailstock is convenient and reliable which can be optional.



Main Specifications

主要规格

规格	技术参数	单位	LG160	LG200	LG250
加工能力 Machining capacity	床身上最大回转直径 Max.swing over bed	mm	Φ470	Φ510	Φ760
	床鞍上最大回转直径 Max.swing over saddle	mm	Φ340	Φ360	Φ630
	最大加工直径(盘类) Max.turning diameter(Disc type)	mm	Φ360	Φ400	Φ400
	最大加工长度 Max.turning length	mm	500	500/1000	750
行程 Travel	最大行程X轴 Max.travel X axis	mm	195	210	260
	最大行程Z轴 Max.travel Z axis	mm	590	600/1120	800
主轴 Spindle	主轴最高转速 Spindle speed	r/min	5000	4500	4500
	主轴端部型式代号 Spindle end type code		A2-5	A2-6	A2-6
	主轴通孔直径 Spindle hole diameter	mm	Φ55	Φ62	Φ76
	主轴中心至地面高度 Distance from spindle center to the ground	mm	900	940	1100
	主轴电机功率 Power of spindle motor	kW	7.5/11	11/15	15/18.5
尾架 Tailstock	尾架(套筒)最大行程 Max.travel of tailstock quill	mm	60	80	80
	尾架套筒直径 Diameter of tailstock quill	mm	50	80	80
	顶尖规格/类型 center type	莫氏(Morse)	3#/活顶尖 (live center)	4#/活顶尖 (live center)	4#/活顶尖 (live center)
卡盘 Chuck	液压卡盘直径 Hydraulic chuck diameter	inch	8	8	10
进给速度 Feed rate	快移速度(X/Z/Y) Rapid travel speed(X/Z/Y)	m/min	24/24	20/24	30/30
刀架 Turret	刀塔形式 Turret type		Hydraulic Turret 液压刀台	Hydraulic Turret 液压刀台	Hydraulic Turret 液压刀台
	刀位数 Tool stations	把Tools	8	12	12
	外圆刀方尺寸 OD shank size	mm	25 × 25	25 × 25	25 × 25
	最大镗刀杆直径 Max.diameter of boring bar	mm	Φ40	Φ40	Φ40
控制系统 Control system	标准配置/可选配置 Standard configuration/ Optional configuration		FANUC 0i TF / SIEMENS		
机床外形尺寸 Overall dimension	长 × 宽 × 高(L/W/H)	mm	3850 × 1570 × 1680	4200/4700 × 1620 × 1600	4650 × 2000 × 2185
机床重量 Machine weight	净重 Net weight	T	2.2	5/6	6.0

Main Specifications

主要规格

规格	技术参数	单位	LG320	LG400	LG630
加工能力 Machining capacity	床身上最大回转直径 Max.swing over bed	mm	Φ760	Φ900	Φ1030
	床鞍上最大回转直径 Max.swing over saddle	mm	Φ630	Φ620	Φ690
	最大加工直径(盘类) Max.turning diameter(Disc type)	mm	Φ500	Φ570	Φ630
	最大加工长度 Max.turning length	mm	750	2000	3000
行程 Travel	最大行程X轴 Max.travel X axis	mm	340	350	470
	最大行程Z轴 Max.travel Z axis	mm	800	2190	3100
主轴 Spindle	主轴最高转速 Spindle speed	r/min	3500	2000	1250
	主轴端部型式代号 Spindle end type code		A2-8	A2-11	A2-11
	主轴通孔直径 Spindle hole diameter	mm	Φ90	Φ115	Φ115
	主轴中心至地面高度 Distance from spindle center to the ground	mm	1100	1188	1190
	主轴电机功率 Power of spindle motor	kW	18.5/22	22/30	22/30
尾架 Tailstock	尾架(套筒)最大行程 Max.travel of tailstock quill	mm	120	120	150
	尾架套筒直径 Diameter of tailstock quill	mm	120	120	150
	顶尖规格/类型 center type	莫氏(Morse)	5#/死顶尖 (dead center)	5#/死顶尖 (dead center)	5#/死顶尖 (dead center)
卡盘 Chuck	液压卡盘直径 Hydraulic chuck diameter	inch	12	12	15
进给速度 Feed rate	快移速度 (X/Z/Y) Rapid travel speed(X/Z/Y)	m/min	30/30	30/30	20/20
刀架 Turret	刀塔形式 Turret type		Hydraulic Turret 液压刀台	Hydraulic Turret 液压刀台	Hydraulic Turret 液压刀台
	刀位数 Tool stations	把Tools	12	12	12
	外圆刀方尺寸 OD shank size	mm	25 × 25	32 × 32	32 × 32
	最大镗刀杆直径 Max.diameter of boring bar	mm	Φ50	Φ60	Φ60
控制系统 Control system	标准配置/可选配置 Standard configuration/ Optional configuration		FANUC 0i TF / SIEMENS		
机床外形尺寸 Overall dimension	长 × 宽 × 高S(L/W/H)	mm	4650 × 2000 × 2185	6930 × 2870 × 2520	7500 × 2900 × 2705
机床重量 Machine weight	净重 Net weight	T	6.3	12	22
机床功能 Function of machine tool			标准(standard)、S、H、 Y、SH、SY	标准(standard)、S、H、 Y、SH、SY	标准(standard)、S、H、 Y、SH、SY

功能说明: 标准--两轴数控车、S--副配主轴、H--车削中心、Y--Y轴 各机型详细配置及参数见产品推介书
Function Description: The detailed configuration and parameters of standard - two-axis CNC turning machine, S- auxiliary spindle, H- turning center and Y- Y axis are shown in the product recommendation book

例: LG630Y表示630规格配Y轴车铣复合机床
Example: LG630Y stands for 630 specification with Y-axis turning and milling compound machine tool



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