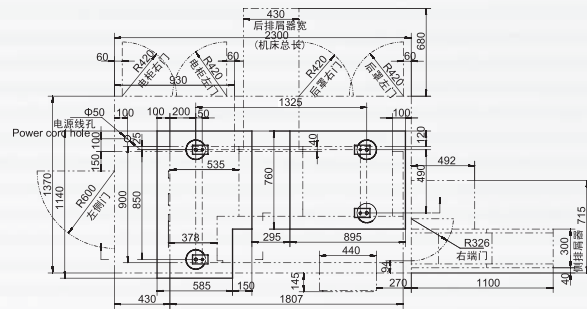
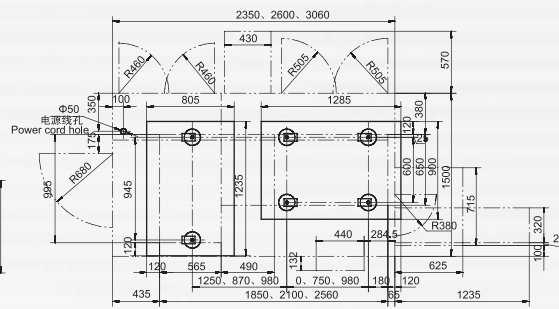


机床地基图 Machine foundation drawing

LS16

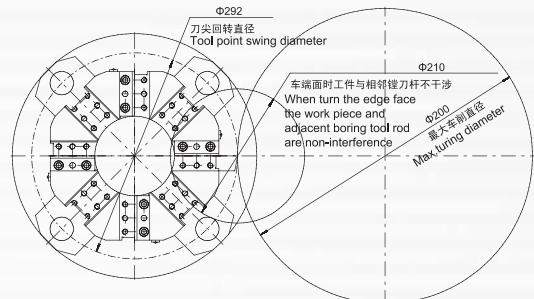


LS20

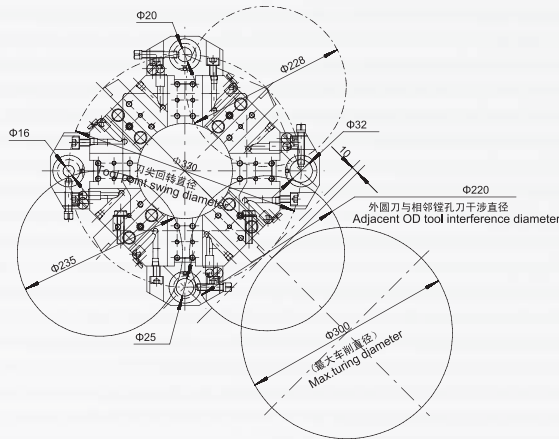


刀盘刀具干涉图 Interference diagram between tool disc and tool

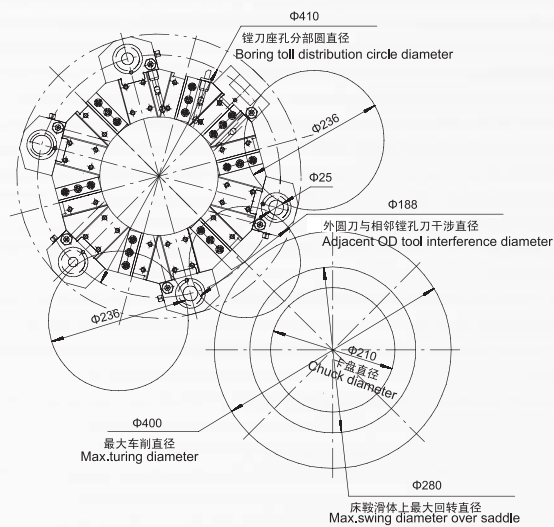
LS12



LS16



LS20



机床参数 Machine specification

			LS12	LS16	LS20
加工能力 Machining capacity	床身上最大回转直径	Max. swing diameter over bed	mm	Φ320	Φ420
	床鞍滑体上最大回转直径	Max. swing diameter over saddle	mm	Φ225	Φ280
	最大车削直径	Max. turning diameter	mm	Φ200	Φ300
	最大车削长度	Max. turning length	mm	300	500
行程 Travel	最大行程X轴	Max. travel X axis	mm	125	160+25
	最大行程Z轴	Max. travel Z axis	mm	390	562
主轴 Spindle	主轴最高转速	Max. speed of spindle	r/min	4000	4000/6000
	主轴定心轴颈锥度	Centering journal taper of spindle		14° 15'	14° 15'
	主轴锥孔锥度	Taper of hole in spindle		莫氏Morse6#	莫氏Morse6#
	主轴通孔直径	Through hole diameter of spindle	mm	Φ45	Φ61
	主轴前轴径尺寸	Fore axis dimension of spindle	mm	Φ80	Φ100
	主轴中心至床面高度	Distance from spindle center to bed surface	mm	190	285
	主轴中心至地面高度	Distance from spindle center to the ground	mm	900	935
尾架 Tailstock	尾架(套筒)最大行程	Max. travel of tailstock quill	mm	80	410
	尾架套筒直径	Diameter of tailstock quill	mm	Φ85	Φ80
	芯轴锥孔锥度	Taper of hole in mandrel		莫氏Morse3#	莫氏Morse3#
卡盘 Chuck	液压卡盘直径	Hydraulic chuck diameter	mm	6"	8"
进给 Feed	X/Z轴丝杠规格	X/Z axis guide screw specification	mm	Φ25/Φ32	Φ32/Φ32
	快速进给速度X/Z	Rapid rate	m/min	16/16	16/24
控制系统 Control system	主轴电机	Spindle motor	Kw	3.7/5.5	11/15
	X轴伺服电机	Servo motor of X axis	Nm	4	8
	Z轴伺服电机	Servo motor of Z axis	Nm	6	12
	W轴伺服电机	Servo motor of W axis	Nm		9.55
刀库 Tool magazine	刀塔形式	Turret type		BTP-50-8-R-415	BSV-N160
	刀位数	Tool stations		8	8
	外圆刀方尺寸	OD shank size	mm	20×20	25×25
	最大镗刀杆直径	Max. diameter of boring bar	mm	Φ32	Φ40
机床重量(净重/毛重)			T	2.5/3.0	4.8,5,3,5,8/5,8,6,3,6,8

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SHINRI® 新瑞

LS系列 全功能数控车床/车削中心

LS series CNC full function lathe/Turning center



新誉集团有限公司
New United Group Co.,Ltd

2011-03-2000

LS series CNC full function lathe/Turning center

LS系列为我公司第二代新型数控车床。整体45°倾斜导轨床身结构，具备高性能、高稳定的特性，提供了更加完美的加工方案。机床造型美观大方，安全可靠，人机功能得到充分体现。具备最先进的控制系统和驱动技术，是车削加工的一款高精度、高稳定、高效率精品设备。

本系列机床采用模块化设计，可以根据配置的不同变化和用户的特殊要求，提供具备特殊功能或个性化产品，同时还可以配成车削中心产品。

LS series products are second generation CNC lathe products from our company. The 45° slant machine bed features high performance and high stability and can provide perfect machining method. The machine features beautiful appearance, high reliability and the man-machine function is fully exhibited. With world advanced control and driven system, the machine is a turning device with high accuracy, high stability and high efficiency.

This series machine is with mould design; we are able to provide special functions or customized products according to different configurations and different requirements from customer. The mean time, we are able to convert this type into turning centers.



机床特点 Machine characteristics

- 床身为整体圆筒筋结构形式。可选配侧置或后置排屑器，床身自带接屑收水盘，并带油水分离结构；
- 高精度的滚动导轨副，动态性能好；
- 主传动系统采用高性能的AC主轴伺服电机驱动，主轴箱采用无齿传动，封闭式油脂润滑，低噪声，发热少，运动平稳；
- 主轴前后轴承均配置角接触主轴球轴承组合，充分满足了重切削下的径向，轴向载荷；
- 采用进口电动转塔刀架，可实现高刚性下的强力切削，双向就近选刀，提高生产率；
- X、Z轴均采用交流伺服电机驱动，半闭环控制，并可以选配全闭环控制；
- 尾架套筒采用芯轴回转结构。LS系列除LS12外，标配编程尾座。
- 采用全防护设计，配摆动式操纵台，设有安全保护措施和报警设置；
- 精心设计的排屑器与水箱分离结构，方便了水箱的清理；冷却系统采用高扬程软泵，使零件加工得到极佳的冷却效果。

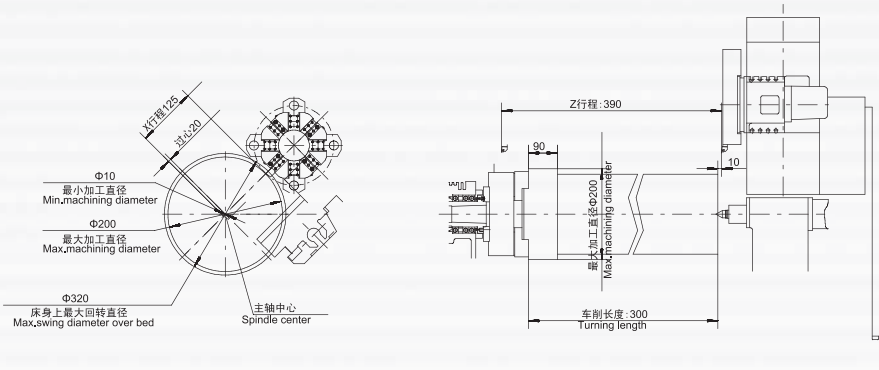


- The machine is with cylinder gusset plate structure. And can be equip with side or postposition chip conveyor. The machine bed is with coolant, chip tank and water-oil separate structure.
- With high accurate rolling linear guide ways the machine is good at dynamic performance.
- The main transmission system is driven by high performance AC servo spindle motor and the spindle gear box is with non-gear transmission, full closed grease lubrication, which features lower noise, lower heat emission and balance in machine motion.
- The spindle front and back bearing are all angle touching bearing group, which enables heavy duty cutting force in both radial and axis directions.
- With original packing electrical turret, the machine can realize heavy duty cutting in high rigidity, adjacent tool selection in double sides and promote production efficiency.
- Both X and Z axis are driven by AC servo motors and realize semi-closed control. And the full-closed control is optional.
- The tail stock quill is with core axis rotary structure. LS series is with standard program-mable tail stock (except LS12).
- The machine is with full closed safety guard design, swing type operation table with safety measurement and alarm device.
- The well-designed chip conveyer and water tank separate structure is convent for cleaning. The cooling system is with high-lift soft pump and can make sure that machining component is well cooled during machining.

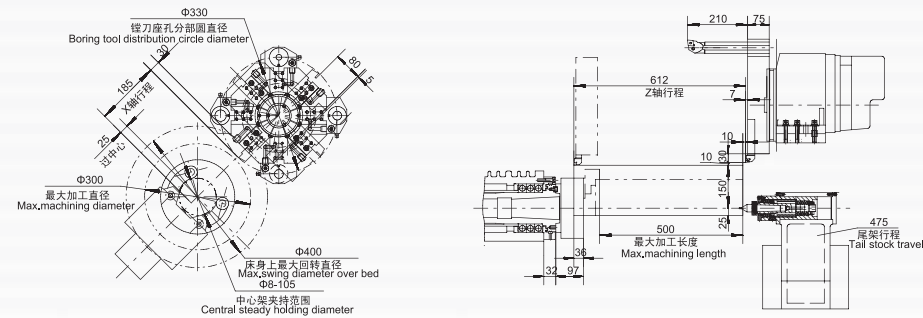


机床能力图 Machine capacity diagram

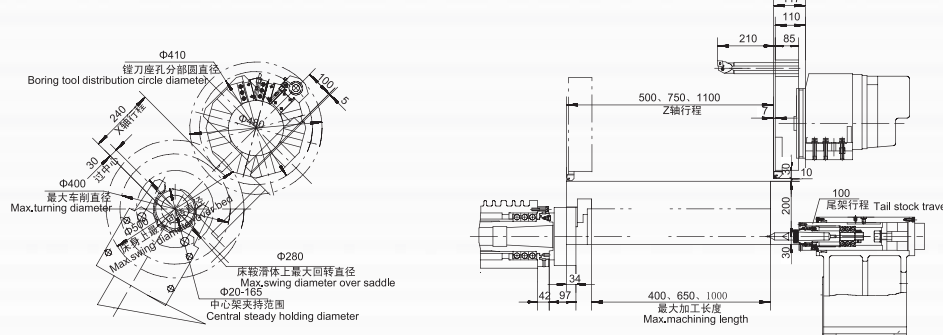
LS12



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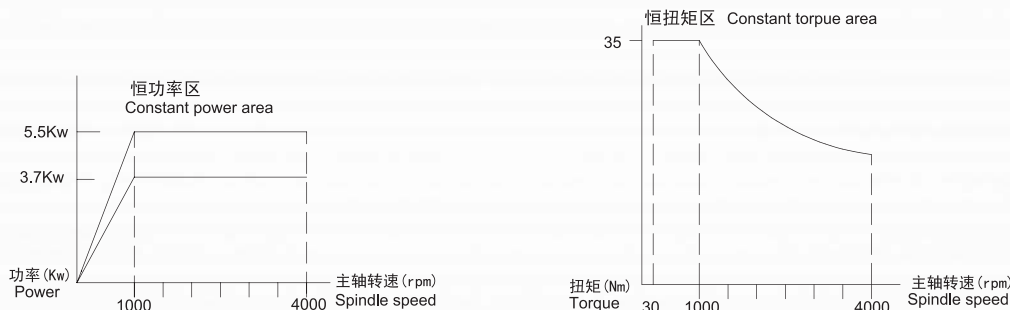


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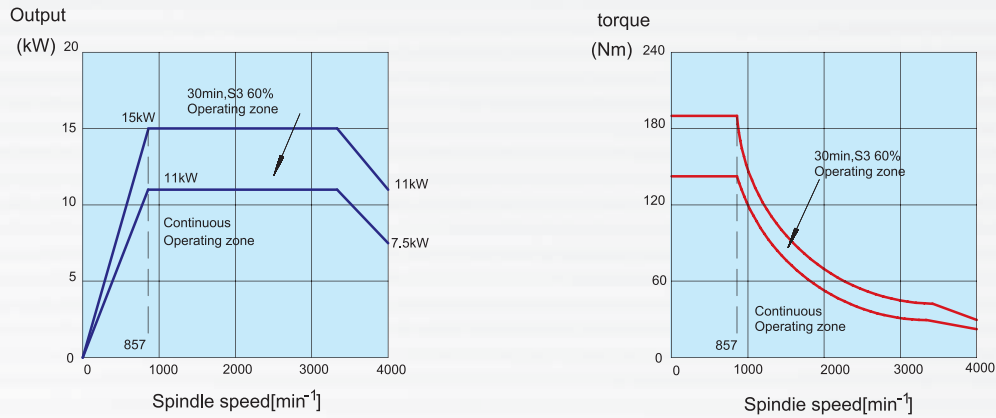
主轴功率图/扭矩图 Spindle power diagram/Torque diagram

LS12

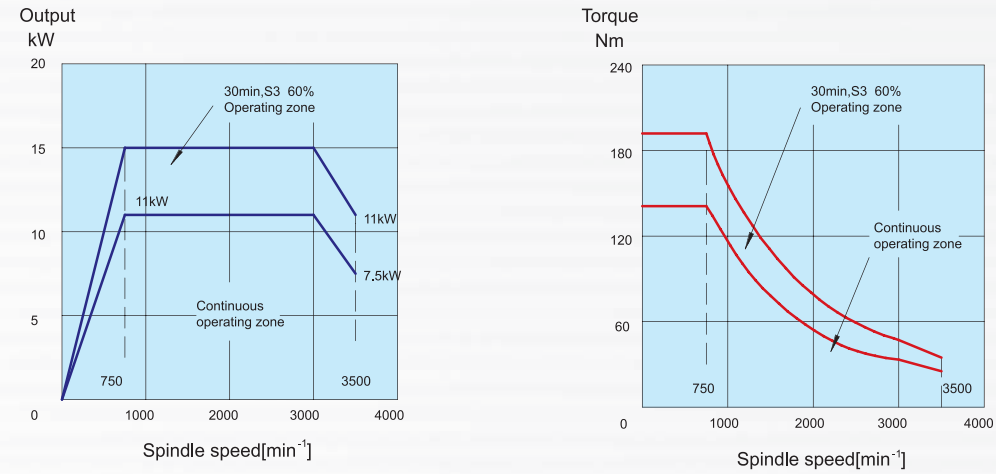


主轴功率图/扭矩图 Spindle power diagram/Torque diagram

LS16



LS20



机床地基图 Machine foundation drawing

LS12

