

合作共赢 客户至上

Win-win cooperation, Customer Foremost



河北大元重科机械有限公司
Hebei Dayuan Heavy Science Machinery Co., LTD
地址: 河北省邯郸市大名县经济技术开发区
Address: Economic and Technological Development Zone,
Daming County, Handan City, Hebei Province



Continuous improvement



精益求精 高端数控车床 车铣中心 智能自动化生产线

HL-T系列Series 150/200/250/300/380

HL-M/S/Y系列Series 150/200/250

HL-P系列Series 100/200/300/360/460/560/630

Hebei Dayuan Heavy Science Machinery Co., LTD



企业简介

ABOUT GUANHONG

经营方针

质量精益求精 客户满意至上

发展理念

诚信、责任、创新、共赢

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发展战略

以数控车床制造为依托，大力拓展上下游相关产业，致力于发展成为国内一流的数控装备集成供应商。

2015 公司成立 Company Date of Establishment

河北大元重科机械有限公司成立于2017年(由东莞冠宏科技有限公司投资建成)，位于冀鲁豫三省交界的河北省大名经济技术开发区，是股份制企业，是河北省重点企业、国家级高新技术企业，省级“专精特新”企业，高精密数控机床研发生产基地。

公司占地121亩，主要生产高精密数控车床、车铣复合中心、工业机器人、卧式加工中心、自动化生产线及机械配件、汽车配件、机械铸件、钣金件等产品。公司集产设计、技术研发、生产制造、销售服务于一体，拥有18项发明专利，并申请成立了邯郸市工程技术研发部，致力于成为京津冀中高端数控机床研发生产基地。 公司技术力量雄厚，生产工艺先进，检测设备完善，现已通过国家权威检测机构ISO91001：2000国际质量体系认证。产品不断推陈出新，系列不断完善改进。

多年来，公司注重品牌经营战略，全面落实质量管理，不断完善服务体系，坚“一切以客户为中心”，走“做优做强”之路，产品以“合理的价格、过硬的质量”的服务宗旨深受广大新老客户的青睐。

Our core values are Integrity, Responsibility, Innovation, and Win-win cooperation.

Hebei Dayuan Heavy Industry Machinery Co., Ltd. was established in 2017 (invested and built by Dongguan Guanhong Technology Co., Ltd.), located in Daming Economic and Technological Development Zone, Hebei Province, at the junction of Hebei, Shandong, and Henan provinces. It is a joint-stock enterprise, a key enterprise in Hebei Province, a national high-tech enterprise, a provincial-level "specialized, refined, unique, and new" enterprise, and a research and production base for high-precision CNC machine tools.

The company covers an area of 121 acres and mainly produces high-precision CNC lathes, turning and milling composite centers, industrial robots, horizontal machining centers, automated production lines and mechanical parts, automotive parts, mechanical castings, sheet metal parts and other products. The company integrates production design, technology research and development, manufacturing, sales and service, with 18 invention patents, and has applied to establish the Handan Engineering Technology R&D Department, committed to becoming a high-end CNC machine tool R&D and production base in the Beijing Tianjin Hebei region. The company has strong technical strength, advanced production technology, and complete testing equipment. It has passed the ISO91001:2000 international quality system certification of the national authoritative testing institution. Products are constantly innovating and series are constantly improving and perfecting.

For many years, the company has focused on brand management strategy, fully implemented quality management, continuously improved service system, adhered to the principle of "putting customers at the center of everything", and taken the path of "doing better and stronger". Its products are highly favored by new and old customers with the service tenet of "reasonable price and excellent quality".



我们对HL系列基本结构采用了一种新型设计：主轴、鞍座和尾座。这种新型设计确保了一致的刚性。所得到的刚性等级突破了以往的概念，并且因加宽的底面而提高了稳定性。

床身角度有30°、45°、50°，主轴、导轨等经过高精度加工和装配，确保在高速运转时仍能保持稳定。

We adopted a new design for the basic structure: spindle, saddle, and tailstock. This innovative design ensures consistent rigidity. The achieved rigidity level surpasses previous concepts, and stability is further enhanced due to the widened base.

The bed angle options include 30°, 45°, and 50°, the spindles and rails was processed & assembled with high precision, it can ensure the stable performance even at high speeds.

HL250-1500T

HL系列类别与型号 Category and Model



稳定性好：床身设计有助于克服重力，提高机床的稳定性，特别是在加工过大零件时表现更为出色。

排屑能力强：倾斜的导轨便于将铁屑集中在排屑机上，实现自动化排屑，减少切屑对机床的磨损，延长刀具和机床的使用寿命。

自动化生产：斜床身数控车床适合自动化生产，可以通过增设铣削动力头、自动送料或机械手，实现自动上料、自动排屑，提高工作效率。

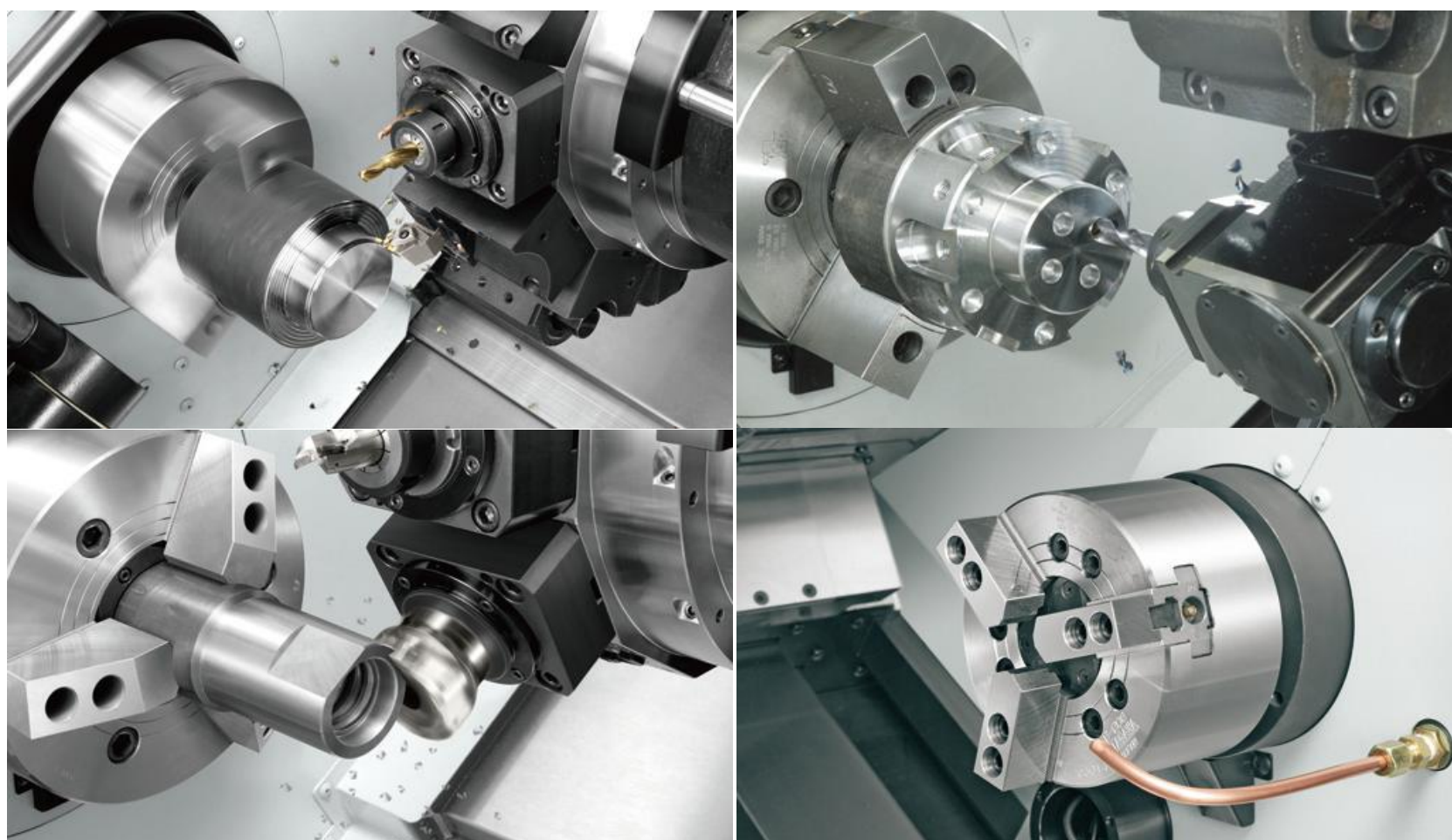
- Stability: The bed design helps counteract gravity, improving machine stability, especially outstanding performance when processing large parts.

- Chip Removal Capability: The inclined guide rails facilitate collecting chips on the chip conveyor, achieving automated chip removal, reducing chip wear on the machine, and extending the service life of tools and machines.

- Automatic Production: The oblique-bed design is much more suitable for automatic production. It can be equipped with milling spindles, automatic feeding machines, or robotic arms to achieve automated loading and unloading, improving work efficiency.



HL系列功能图解 HL Series functional diagram



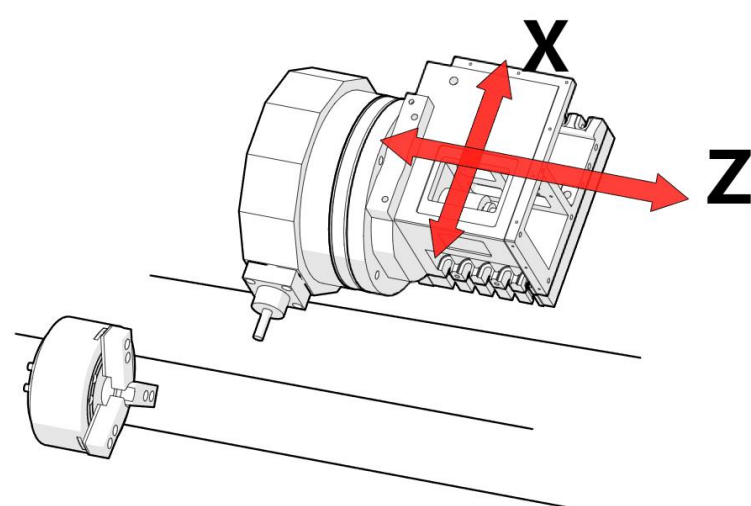
我们希望所有客户都能找到/拥有您想要的数控车床。大元承诺以诚信、责任、创新、合作共赢为使命，扩大我们的机器范围，并提供与您需求正确匹配的机器，我们也将坚持提供卓越和客户至上的服务。

We hope all customer can find the CNC lathe you desire. Dayuan promise to keep honesty, responsibility, innovation, and win-win cooperation as our mission, to expanding our machine range and provide the machine which match your requirements correctly. We will also insist to provide the service with excellence and customer foremost.

功能 Function

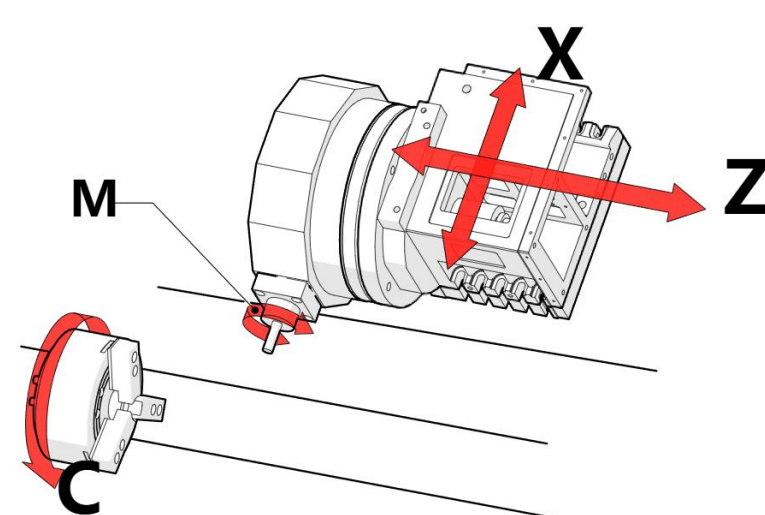
两轴车削 T

Two-axis turning



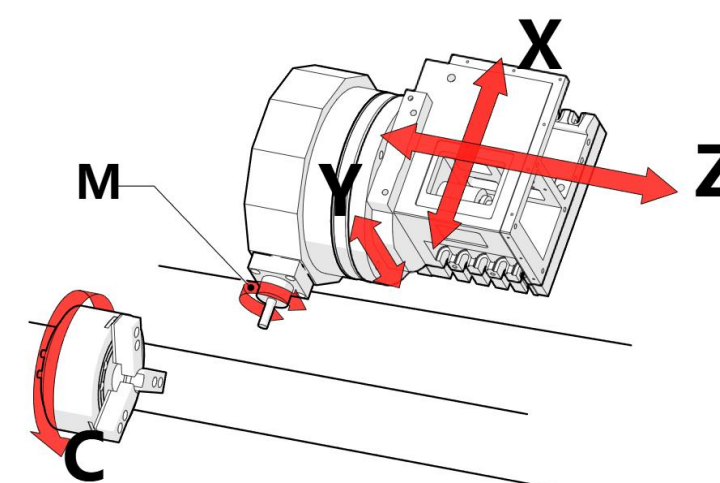
铣削功能 M

Milling capability



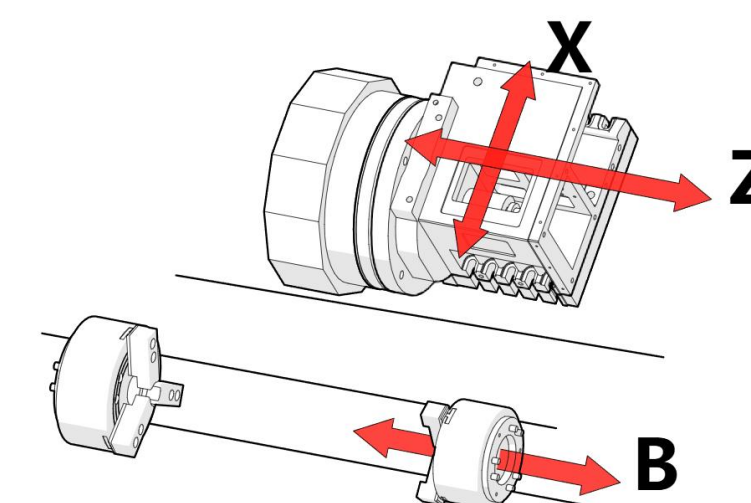
Y轴控制 Y

Y-axis control



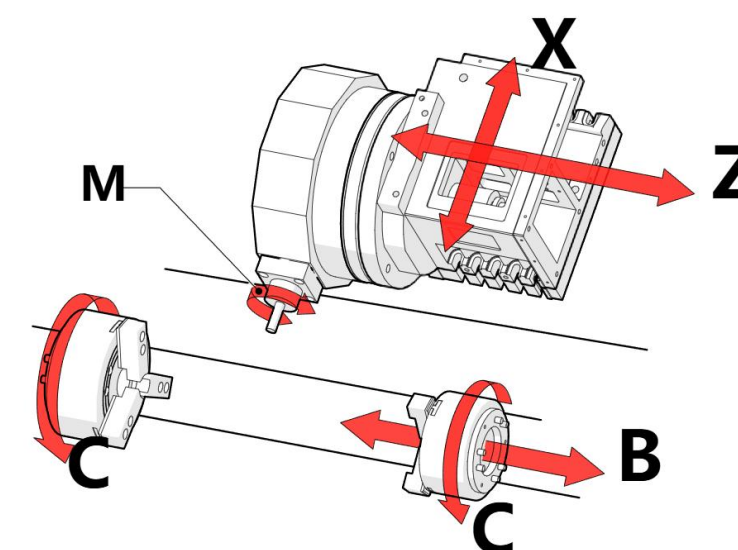
第二主轴 S

Second spindle



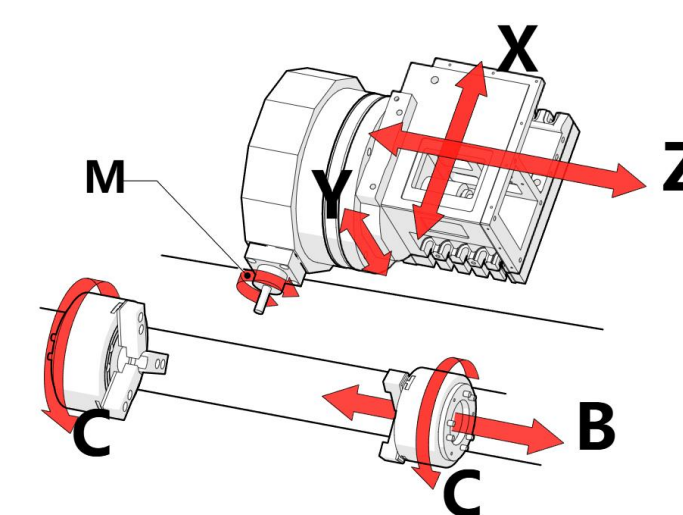
第二主轴+铣削功能 SM

S+M



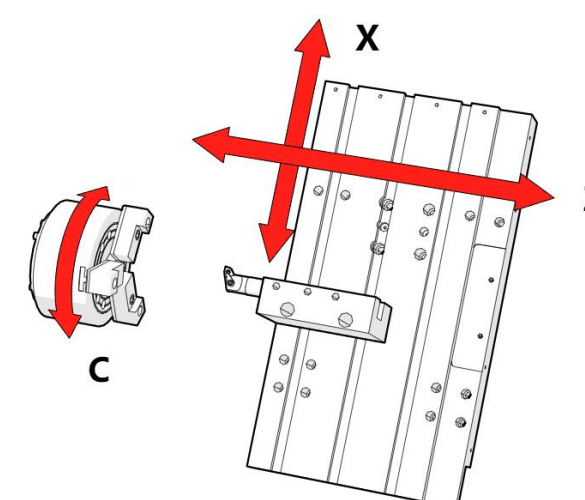
第二主轴+Y轴控制 SY

S+Y



排刀车削 P

Row turning





HL系列T/M/S/Y型号大小 HL Series Model Size

HL150



刀塔机、车铣

T M

Turret Machine

主轴类型 Spindle Type	A2-5
标准卡盘大小 Lathe chuck	6 " (通孔直径 主轴/拉杆 $\Phi 56/\Phi 46$) Through hole diameter Spindle/Saddle Rod
刀位数 Number of Tools	8T

型号: HL150-300T (30S)、HL150-350T (360S)、HL150-300M

HL200

Turret Machine

刀塔机、车铣复合中心

T M S Y



型号:

HL200-380T (460S)、HL200-400T (40S)、HL200-550T、HL200-600T (50S)、HL200-600M (500SD)、HL200-300Y (30DY)、HL200-350Y (40DY)、HL200-550Y (50DY)、HL200-400SY、HL200-550Y- II、HL200-600SM

主轴类型 Spindle Type	A2-6
标准卡盘大小 Lathe chuck	8 " (通孔直径 主轴/拉杆 $\Phi 66/\Phi 52$) Through hole diameter Spindle/Saddle Rod
刀位数 Number of Tools	8T/12T

HL250



刀塔机、车铣复合中心

T M S Y

Turret Machine Turning and Milling Center

主轴类型 Spindle Type	A2-8
标准卡盘大小 Lathe chuck	10 " (通孔直径 主轴/拉杆 $\Phi 87/\Phi 72$) Through hole diameter Spindle/Saddle Rod
刀位数 Number of Tools	12T

型号:

HL250-500T (560S)、HL250-750T (63S)、HL250-800T、HL250-800T- II、HL250-1050T、HL250-1150T、HL250-1550T、HL250-1650T、HL250-2050T、HL250-2150T、HL250-1500YS

HL300 Turret Machine

刀塔机

T



主轴类型 Spindle Type	A2-11
标准卡盘大小 Lathe chuck	12 " (通孔直径 主轴/拉杆 $\Phi 105/\Phi 90$) Through hole diameter Spindle/Saddle Rod
刀位数 Number of Tools	12 T

型号: HL300-1050T、HL300-1550T、HL300-2050T、HL300-3050T

HL380 Turret Machine

刀塔机

T

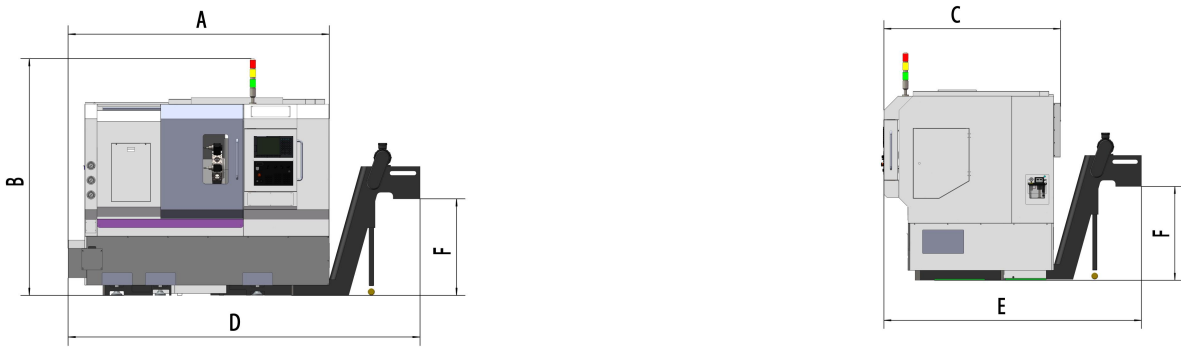


主轴类型 Spindle Type	A2-15
标准卡盘大小 Lathe chuck	24 " (通孔直径 主轴/拉杆 $\Phi 132/\Phi 120$) Through hole diameter Spindle/Saddle Rod
刀位数 Number of Tools	12 T

型号: HL380-2200T、HL380-3150T、HL380-4150T



HL系列机械尺寸 Mechanical dimensions



机床型号 (mm)Machine Type / Model	长、宽、高 L x W x H(mm)			右排屑空间Right Chips Expulsion Area	后排屑空间Rear Chip Ejection Space	排屑车高度Chip Discharge Cart Height
	A	C	B	D	E	F
HL- T 刀塔机						
HL150-300T (30S)	2150	1560	1730	3150	2700	1000
HL150-350T (360S)	2100	1590	1800	3100	2700	1000
HL200-380T (460S)	2470	1650	1880	3500	2750	1000
HL200-400T (40S)	2370	1780	1820	3370	2880	1000
HL200-550T	2970	1960	1930	4070	---	1000
HL200-600T (50S)	2740	1860	1820	3740	2960	1000
HL250-500T (560S)	2520	1830	1920	3520	2930	1000
HL250-750T (63S)	2740	1860	1820	3740	2960	1000
HL250-800T	2970	1960	1930	4070	---	1000
HL250-800T- II	3150	2160	1930	4250	---	1000
HL250-1050T	3350	2150	1930	4450	---	1000
HL250-1150T	3460	2160	1930	4560	---	1000
HL250-1550T	4250	1960	19630	4450	---	1000
HL250-2050T	4850	1960	1930	5950	---	1000
HL250-2150T	5100	2159	1929	6250	---	1000
HL250-1650T	3460	2160	1930	4560	---	1000
HL300-1050T	4000	2300	2170	5100	---	1000
HL300-1550T	4610	2300	2170	5850	---	1000
HL300-2050T	5150	2300	2170	6350	---	1000
HL300-3050T	6250	2300	2170	7450	---	1000
HL380-2200T	5250	3010	2450	6350	---	1000
HL380-3150T	6450	3010	2450	7650	---	1000
HL380-4150T	8000	3010	2450	9200	---	1000
HL-S/M/Y 车铣复合						
HL150-300M	2150	1560	1730	3150	2700	1000
HL200-600M (500SD)	2970	1960	1930	4070	---	1000
HL200-300Y (30DY)	2170	1560	1890	3170	2760	1000
HL200-350Y (40DY)	2640	2070	2180	3640	3170	1000
HL200-550Y (50DY)	2740	1900	2040	3740	3000	1000
HL200-550Y- II	3335	2290	2170	---	3490	1000
HL200-400SY	3100	2235	2250	4100	---	1000
HL200-600SM	2970	1960	1930	4070	---	1000
HL250-1500YS	4400	3000	2200	5500	---	1000
HL-P 排刀						
HL100P	1780	1520	1900	---	2400	1000
HL200P	2010	1500	1750	3110	2640	---
HL300P	2065	1600	1800	---	2700	---
HL360P	2010	1500	1750	3110	2640	---
HL460P	2330	1700	1760	---	2800	---
HL560P	2550	1810	1830	3650	---	---
HL630P	3055	1960	1870	4455	---	---

选配列表 Optional Accessories List

●: 标准 Standard ○: 选项 Options ×: 不可用 Cannot be configured

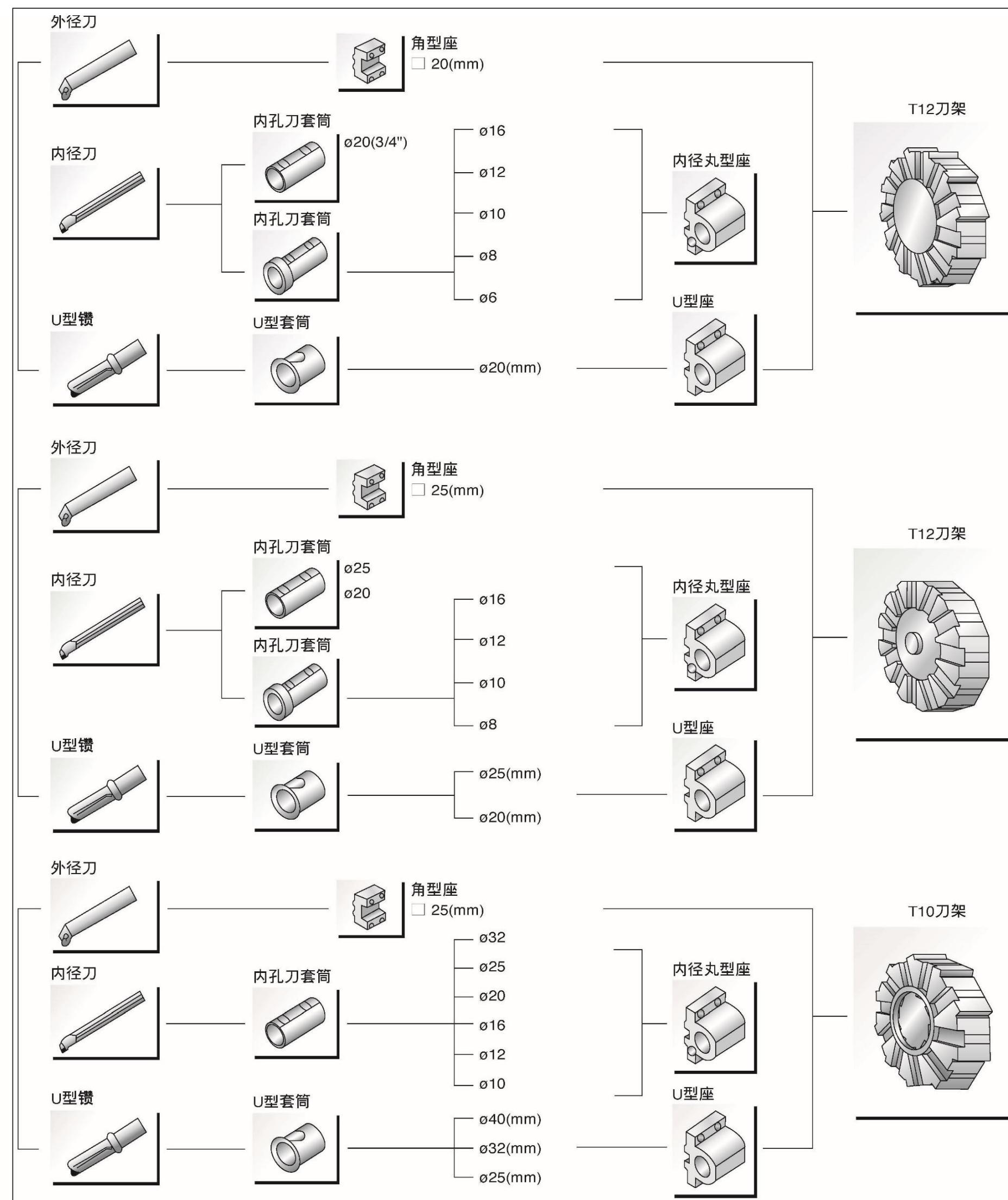
机种型号(mm)Machine Type / Model	第二主轴 (S)	尾座 伺服 Servo Tailstock (ST)/手动 Manual Tailstock(MT)	中心支架Center Bracket 液压Hydraulic (HC) /手动 Manual (MC)	排屑机Chip Conveyor (C)	对刀仪Tool Setter(TS)
HL- T 刀塔机					
HL150-300T (30S)	×	○	×	○	×
HL150-350T (360S)	×	×	×	○	×
HL200-380T (460S)	×	×	×	○	×
HL200-400T (40S)	×	○	×	○	×
HL200-550T	×	○	×	○	○
HL200-600T (50S)	×	○	×	○	×
HL250-500T (560S)	×	×	×	○	×
HL250-750T (63S)	×	○	×	○	×
HL250-800T	×	○	○	○	○
HL250-800T- II	○	○	○	○	○
HL250-1050T	×	○	○	○	○
HL250-1150T	○	○	○	○	○
HL250-1550T	×	○	○	○	○
HL250-2050T	×	○	○	○	○
HL250-2150T	×	○	○	○	○
HL250-1650T	○	○	○	○	○
HL300-1050T	○	○	○	○	○
HL300-1550T	○	○	○	○	○
HL300-2250T	○	○	○	○	○
HL300-3050T	○	○	○	○	○
HL380-2200T	○	○	○	○	○
HL380-3150T	○	○	○	○	○
HL380-4150T	○	○	○	○	○
HL- S/M/Y 车铣复合					
HL150-300M	×	×	×	○	×
HL200-600M (500SD)	○	○	○	○	○
HL200-300Y (30DY)	×	×	×	○	○
HL200-350Y (40DY)	×	×	×	○	○
HL200-550Y (50DY)	×	○	×	○	○
HL200-550Y- II	×	×	×	○	×
HL200-400SY	○	○	×	○	○
HL200-600SM	●	○	×	○	○
HL250-1500SY	○	○	○	●	○
HL- P 排刀					
HL100P	×	×	×	○	×
HL200P	×	×	×	○	×
HL300P	×	×	×	○	×
HL360P	×	×	×	○	×
HL460P	×	×	×	○	×
HL560P	×	×	×	○	×
HL630P	×	×	×	○	×

● 以上详细信息和规格如有变更，恕不另行通知。
● 规格、配件、安全设备及功能等可应要求提供。
● 在特定地区，可能不能提供某些可选装置。有关详情，请联系大元重科。
● The detailed information and specifications provided above are subject to change without further notice.
● Specifications, accessories, safety equipment, and functions may be provided upon request.
● In certain regions, some optional units may not be available. Please refer to Guanhong Precision Machinery for more details.

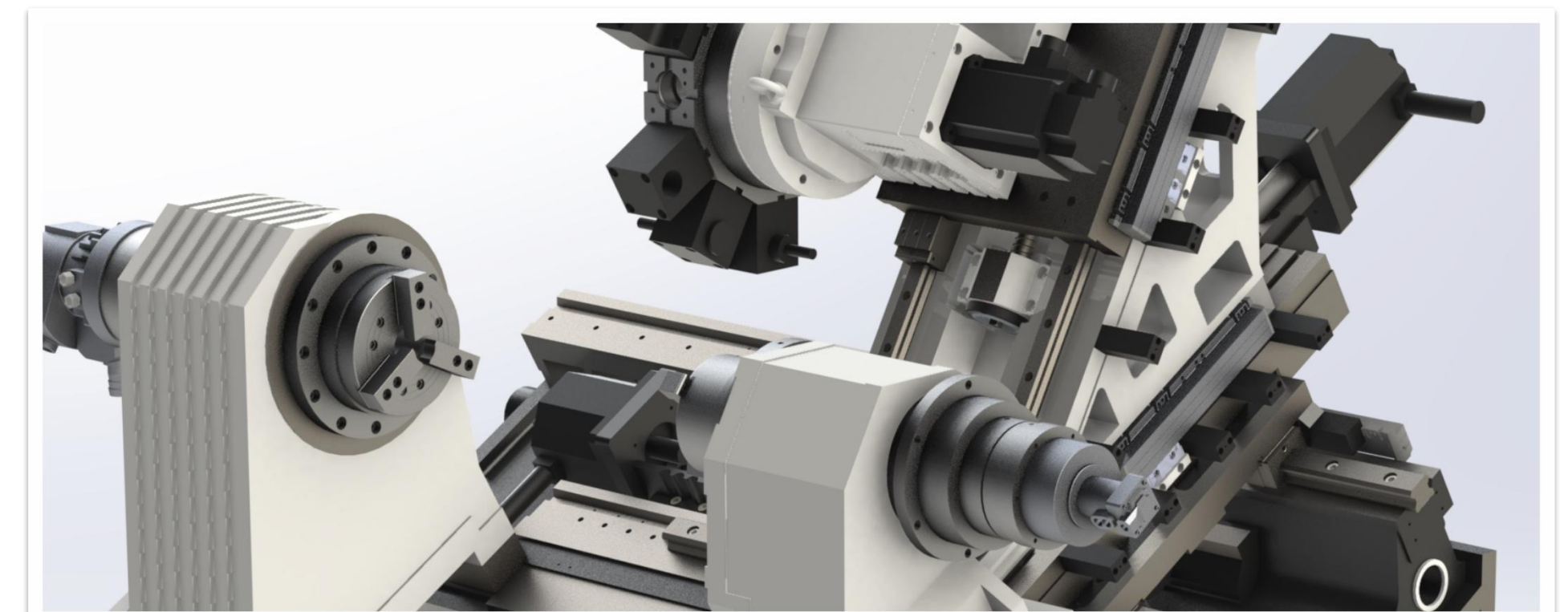
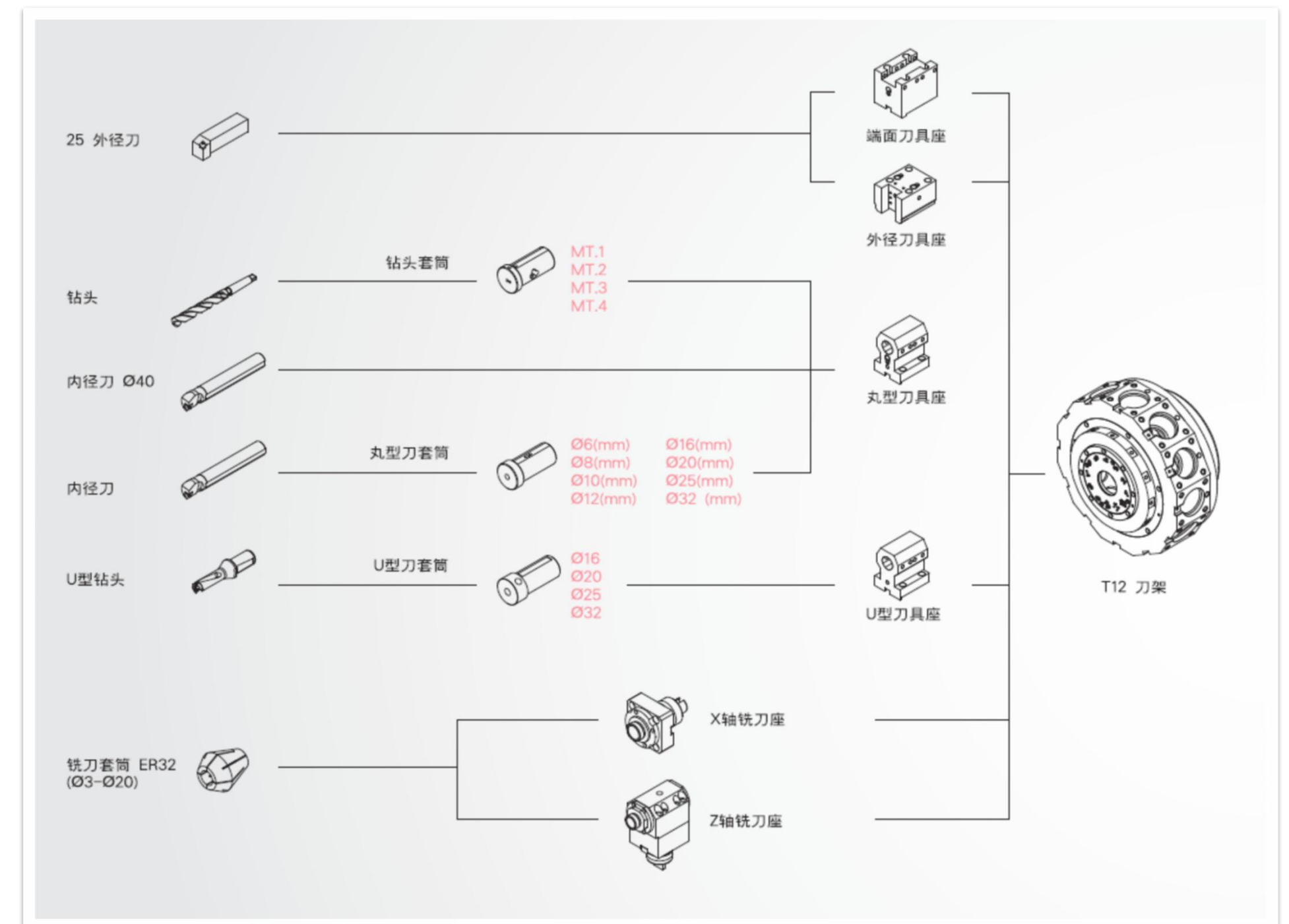


HL系列刀具系统 Machine tool system

HL-T系列刀具系统图 Tool System Diagram



HL-S/Y/MC系列刀具系统图 Tool System Diagram





HL系列-T 刀塔机参数配置

HL-T Mechanical Specifications

项目 Task	名称 Name	单位Unit	HL150/300T (30S)	HL200/400T (40S)		HL200/550T	HL250-800T	HL250-1050T	HL250-1550T	HL250-2050T
加工范围Machining Range	床身最大回转直径 Max Swivel D	mm	Φ510	Φ490		Φ560	Φ600			
	最大加工直径〔轴/盘〕 Max D (shaft/disc)	mm	Φ 150/250	Φ 240/420		Φ350	Φ320/Φ500			
	最大加工长度 Max L	mm	300	400 (尾座)		550	800	1050	1550	2050
主轴Spindle	主轴类型 Spindle Type	机械/单元	A2-5	A2-6		A2-6	A2-8			
	主轴通孔直径 Spindle bore	mm	Φ56	Φ66		Φ66	Φ87			
	拉管通孔直径Diameter of pull tube through-hole	mm	Φ45	Φ52		Φ52	Φ72			
	主轴转速范围 Spindle speed	rpm	50-3000	50-3000		50-3500	50-2500			
	主轴电机功率 Spindle motor	kw	7.5	7.5		11	11			
	液压卡盘 Hydraulic chuck	英寸	6	8		8	10			
XYZ行程Moving distance	X轴工作行程 X-axis stroke	mm	135	220		190	260			
	Z轴工作行程 Z-axis stroke	mm	345	445		560	810	1100	1600	2100
刀塔Lathe tool library	刀架类型 Tool library	T	80-8T-280	80-12T-330		100-12T-380	丞鑫 TCS100B-12T-380			
	车刀座尺寸 Tool size	mm	25*25	25*25		25*25	25X25			
	镗刀座尺寸 boring tool	mm	Φ32	Φ32		Φ40	Φ40			
尾座Tailstock	尾座套筒 Tailstock sleeve	Mohs	莫氏MT4#	莫氏MT5#		莫氏MT4#	MT5#			
	尾座行程 Tail seat travel	mm	320	305		420	800	1050	1550	2050
	尾座套筒行程 Sleeve travel	mm	110	110		110	110			
移动速度movement speed	X轴快移速度 X-axis velocity	m/min	30	24		30	20			
	Z轴快移速度 Z-axis velocity	m/min	30	24		30	20			
马达 Motor	主轴电机功率 Spindle motor	kw	7.5	7.5		11	11		15	
	X轴电机功率 X-axis motor	kw	2.5 (10Nm)	2.5 (10Nm)		2.5 (10Nm)	3.1 (15Nm)			
	Z轴电机功率 Z-axis motor	kw	2.5 (10Nm)	2.5 (10Nm)		2.5 (10Nm)	3.1 (15Nm)			
	液压电机 Hydraulic motor	kw	1.5	1.5		1.5				
	润滑电机 Lubricating motor	kw	0.02	0.02		0.02				
	冷却电机 Cooling motor	kw	0.45	0.45		0.45				
所需动力源	机床总电力 Total Electricity	Kva	16.1	16.1		18.0	20.0	20.0	20.0	24.0
精度Positioning /Repeatability accuracy	主轴鼻端 Front end face of spindle	mm	0.003	0.004		0.004				
	X定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003		0.005/0.003				
	Z定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003		0.005/0.003				
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	2150X1560X1730	2370X1780X1820		2970×1960×1930	2970×1960×1930	2970×1960×1930	4250×1960×1960	4780×1960×1960
	床身角度 Lathe body angle	度°	高低轨High and low track	30°		30°				
	机床重量 Machine weight	KG	2500	3800		3700	4500	5200	6500	7800

标准配置 Standard configuration

项目 Task	名称 Name	厂家 Factory	规格型号 Specification and model							
标准配置Standard Setup	控制系统 NC System	SYNTEC/GSK	GSK 980TC3	广数988TA		GSK 980TC3	SYNTEC 22TA	SYNTEC 22TA	SYNTEC 22TA	SYNTEC 22TA
	主轴轴承 Spindle bearing	CSC/SKF	P4 级 : 7018AC / 7016AC	P4 级 : NN3024K/BTM120 NN3020K		P4 级 : NN3024K/BTM120 NN3020K	P4 级 NN3026K/BTM130/NN3022K			
	液压卡盘 Hydraulic chuck	KPT	6" 中空	8" 中空		8" 中空	10" 中空			
	回转油缸 Chuck Rotary cylinder	KPT	TK646	TK852		TK852	TK1075			
	X轴导轨 X-axis guide rail	HIWIN/银泰	Roller track滚柱35	Roller track滚柱35		Roller track滚柱35	Roller track滚柱45			
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Roller track滚柱35	Roller track滚柱35		Roller track滚柱35	Roller track滚柱45			
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	3210-C3 研磨级	3210-C3 研磨级		3210-C3 研磨级	3210-C3 研磨级			
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	3210-C3 研磨级	3210-C3 研磨级		3210-C3 研磨级	4010-C3 研磨级		5010-C3 研磨级	



HL系列-T 刀塔机参数配置

HL-T Mechanical Specifications

项目 Task	名称 Name	单位Unit	HL250-800T-II	HL250-1150T		HL250-1650T	HL250-2150T	HL300-1050T	HL300-1550T	HL300-2050T	HL300-3050T
加工范围Machining Range	床身最大回转直径 Max Swivel D	mm	Φ 630			Φ 630			Φ 750		
	最大加工直径 (轴/盘) Max D (shaft/disc)	mm	Φ 350/ Φ 550			Φ 350/ Φ 550			Φ 630		
	最大加工长度 Max L	mm	800	1150		1650	2150	1050	1550	2050	3050
主轴Spindle	主轴类型 Spindle Type	机械/单元	A2-8			A2-8			A2-11		
	主轴通孔直径 Spindle bore	mm	Φ 86			Φ 87			Φ 105		
	拉管通孔直径Diameter of pull tube through-hole	mm	Φ 72			Φ 72			Φ 90		
	主轴转速范围 Spindle speed	rpm	50-2500	50-3500		50-2500	50-2500	50-2500			
	主轴电机功率 Spindle motor	kw	11				15		15		18.5
	液压卡盘 Hydraulic chuck	英寸	10				10		12		
XYZ行程Moving distance	X轴工作行程 X-axis stroke	mm	285			285			330		
	Z轴工作行程 Z-axis stroke	mm	810	1160		1660	2160	1120	1620	2120	3120
刀塔Lathe tool library	刀架类型 Tool library	T	丞鑫 TCS100B-12T-380	丞鑫 TCS125-12T-440		丞鑫 TCS100B-12T-380	丞鑫 TCS115-12T-440	丞鑫 TCS125-12T-440			
	车刀座尺寸 Tool size	mm	25X25	32X32		25×25	32X32	32X32			
	镗刀座尺寸 boring tool	mm	Φ 40	Φ 40		Φ 40	Φ 50	Φ 50			
尾座Tailstock	尾座套筒 Tailstock sleeve	Mohs	MT5#			MT5#			MT5#		
	尾座行程 Tail seat travel	mm	800	1150		1650	2150	1050	1550	2050	3050
	尾座套筒行程 Sleeve travel	mm	110			110			110		
移动速度movement speed	X轴快移速度 X-axis velocity	m/min	20			20			20		
	Z轴快移速度 Z-axis velocity	m/min	20			20			24		20
马达 Motor	主轴电机功率 Spindle motor	kw	11			15		15		18.5	
	X轴电机功率 X-axis motor	kw	3.1 (15Nm)				3.1 (15Nm)		3.9 (18.6Nm)		
	Z轴电机功率 Z-axis motor	kw	3.1 (15Nm)				3.1 (15Nm)		3.9 (18.6Nm)		
	液压电机 Hydraulic motor	kw	1.5				1.5		1.5		
	润滑电机 Lubricating motor	kw	0.02				0.02		0.02		
	冷却电机 Cooling motor	kw	0.45				0.45		0.45		
所需动力源	机床总电力 Total Electricity	Kva	23.0	23.0		26.0	26.0	30.0	30.0	35.0	35.0
精度Positioning /Repeatability accuracy	主轴鼻端 Front end face of spindle	mm	0.003				0.003		0.003		
	X定位精度/重复定位精度	mm	0.005/0.003				0.005/0.003		0.005/0.003		
	Z定位精度/重复定位精度	mm	0.005/0.003				0.005/0.003		0.005/0.003		
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	3150×2160×1930	3460×2160×1930		4350×2150×1960	5100×2159×1960	4000×2300×2170	4610X2300X2170	5150X2300X2170	6250X2300X2170
	床身角度 Lathe body angle	度°	30°				30°		30°		
	机床重量 Machine weight	KG	5200	6200		6500	8200	6500	8000	10000	15500
标准配置 Standard configuration											
项目 Task	名称 Name	厂家 Factory	规格型号 Specification and model								
标准配置Standard Setup	控制系统 NC System	SYNTEC/GSK	SYNTEC 22TA	SYNTEC 22TA		SYNTEC 22TA	SYNTEC 22TA	SYNTEC 22TA	SYNTEC 22TA	SYNTEC 22TA	SYNTEC 22TA
	主轴轴承 Spindle bearing	CSC/SKF	P4 级 NN3026K/BTM130/NN3022K				P4 级 NN3026K/BTM130/NN3022K		P4 级 NN3032K/BTM160/NN3030K		
	液压卡盘 Hydraulic chuck	KPT	10" 中空				10" 中空		12" 中空		
	回转油缸 Chuck Rotary cylinder	KPT	TK1075				TK1075		TK1291		
	X轴导轨 X-axis guide rail	HIWIN/银泰	Roller track滚柱45				Roller track滚柱45		Roller track滚柱55		
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Roller track滚柱45				Roller track滚柱45		Roller track滚柱55		
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	3210-C3 研磨级				3210-C3 研磨级		4010-C3 研磨级		
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	4010-C3 研磨级	4012-C3 研磨级		4010-C3 研磨级	5010-C3 研磨级	4012-C3 研磨级			



HL系列-T 刀塔机参数配置

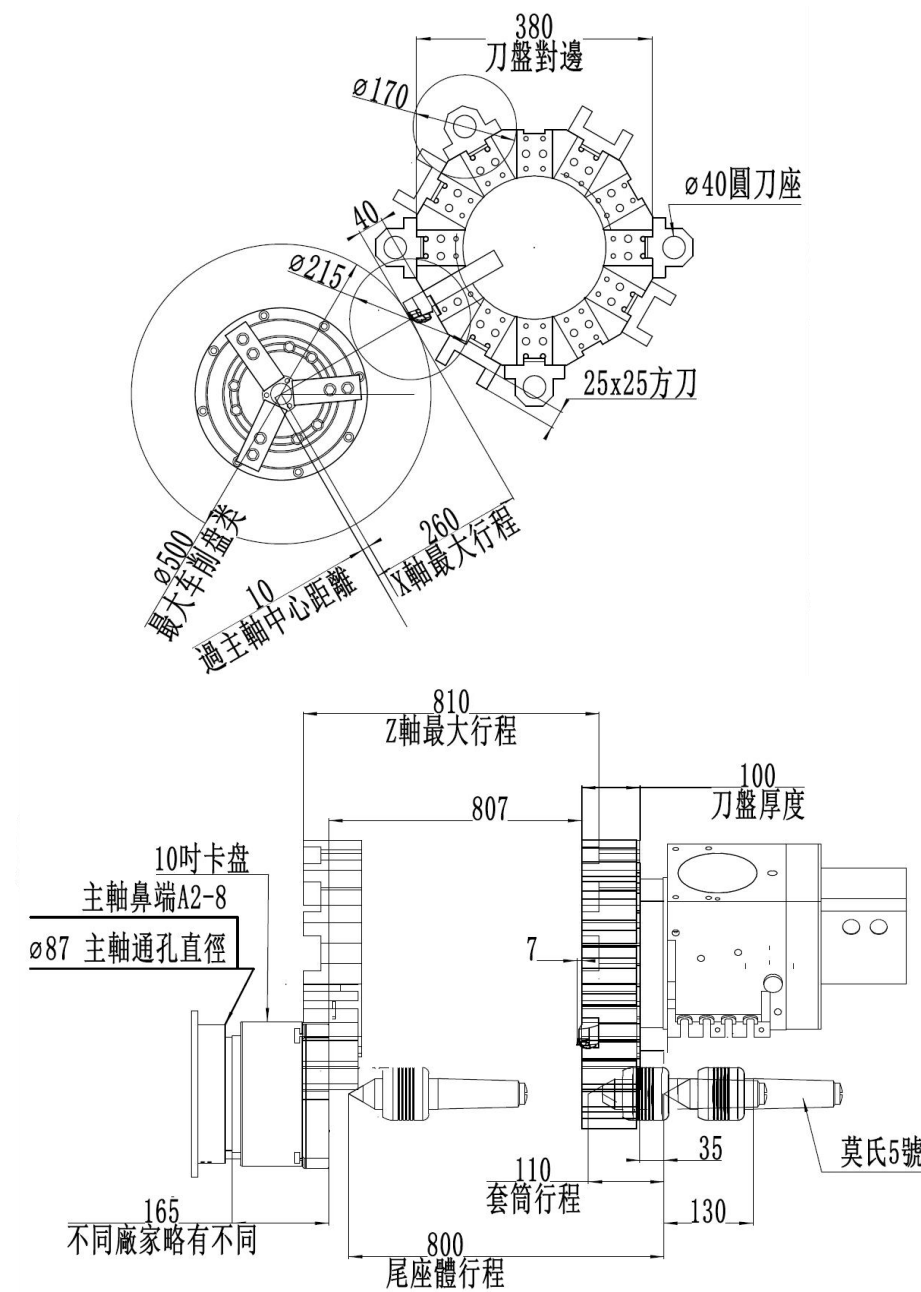
HL-T Mechanical Specifications

项目 Task	名称 Name	单位Unit	HL380-2200T	HL380-3150T		HL380-4150T	HL150/350T (360S)	HL200/380T (460S)	HL200/500T (560S)	HL200/600T (50S)	HL250/750T (63S)
加工范围Machining Range	床身最大回转直径 Max Swivel D	mm	Φ920			Φ920	Φ460	Φ490	Φ560	Φ490	Φ560
	最大加工直径 (轴/盘) Max D (shaft/disc)	mm	Φ810			Φ810	Φ 200/400	Φ 200/440	Φ200/Φ460	Φ 240/420	Φ350/Φ500
	最大加工长度 Max L	mm	2200	3150		4150	345	380	500	600 (尾座)	750
主轴Spindle	主轴类型 Spindle Type	机械/单元	A2-15			A2-15	A2-5	A2-6	A2-8	A2-6	A2-8
	主轴通孔直径 Spindle bore	mm	Φ132			Φ132	Φ56	Φ66	Φ87	Φ66	Φ86
	拉管通孔直径Diameter of pull tube through-hole	mm	Φ120			Φ120	Φ46	Φ52	Φ75	Φ52	Φ72
	主轴转速范围 Spindle speed	rpm	0-1800			0-1800	50-3000	50-3000	50-3500	50-3000	50-2500
	主轴电机功率 Spindle motor	kw	30			30	7.5	7.5	11	7.5	15
	液压卡盘 Hydraulic chuck	英寸	24			24	6	8	10	8	10
XYZ行程Moving distance	X轴工作行程 X-axis stroke	mm	550			550	215	235	240	220	260
	Z轴工作行程 Z-axis stroke	mm	2200	3150		4150	370	412	550	645	757
刀塔Lathe tool library	刀架类型 Tool library	T	丕鑫 TCS160-12T-540			丕鑫 TCS160-12T-540	80-8T-300	80-8T-300	80-12T-330	80-12T-330	100-12T-380
	车刀座尺寸 Tool size	mm	32X32			32X32	25*25	25*25	25*25	25*25	25*25
	镗刀座尺寸 boring tool	mm	Φ50			Φ50	Φ32	Φ32	Φ32	Φ32	Φ40
尾座Tailstock	尾座套筒 Tailstock sleeve	Mohs	MT6#			MT6#				莫氏MT5#	莫氏MT5#
	尾座行程 Tail seat travel	mm	2200/1650 (含中心架)	3150/2500 (含中心架)		4150/3350 (含中心架)				505	680
	尾座套筒行程 Sleeve travel	mm	160			160				110	110
移动速度movement speed	X轴快移速度 X-axis velocity	m/min	20			20	24	24	24	24	20
	Z轴快移速度 Z-axis velocity	m/min	20			20	24	24	24	24	20
马达 Motor	主轴电机功率 Spindle motor	kw	30			30	7.5	7.5	11	7.5	15
	X轴电机功率 X-axis motor	kw	5.9 (28.4Nm)			5.9 (28.4Nm)	2.5 (10Nm)	2.5 (10Nm)	3.9 (15Nm)	2.5 (10Nm)	3.1 (15Nm)
	Z轴电机功率 Z-axis motor	kw	5.9 (28.4Nm)			5.9 (28.4Nm)	2.5 (10Nm)	2.5 (10Nm)	3.9 (15Nm)	2.5 (10Nm)	3.1 (15Nm)
	液压电机 Hydraulic motor	kw	1.5			1.5	1.5	1.5	1.5	1.5	1.5
	润滑电机 Lubricating motor	kw	0.02			0.02	0.02	0.02	0.02	0.02	0.02
	冷却电机 Cooling motor	kw	0.45			0.45	0.45	0.45	0.45	0.45	0.45
所需动力源	机床总电力 Total Electricity	Kva	52.0	52.0		52.0	17.0	17.0	25.0	17.0	23.0
精度Positioning /Repeatability accuracy	主轴鼻端 Front end face of spindle	mm	0.003			0.003	0.003	0.004	0.004	0.004	0.004
	X定位精度/重复定位精度	mm	0.005/0.003			0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003
	Z定位精度/重复定位精度	mm	0.005/0.003			0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	5250×3010×2450	6450X3010X2450		8000X3010X2450	2100X1590X1800	2470×1650×1880	2520×1830×1920	2740X1860X1820	2740×1860×1820
	床身角度 Lathe body angle	度°	30°			30°	45°	50°	50°	30°	30°
	机床重量 Machine weight	KG	12000	20000		30000	2800	3800	4800	4200	5800
标准配置 Standard configuration											
项目 Task	名称 Name	厂家 Factory	规格型号 Specification and model								
标准配置Standard Setup	控制系统 NC System	SYNTEC/GSK	SYNTEC 22TA			SYNTEC 22TA	GSK 980TC3	GSK 980TC3	GSK 980TC3	GSK 988TA	SYNTEC 22TA
	主轴轴承 Spindle bearing	CSC/SKF	P4 级 NN3040K/BTM200/NN3036K				P4 级 : 7018AC / 7016AC	P4 级 :NN3024K/BTM120 NN3020K	P4 级 :NN3026K/BTM130 NN3022K	P4 级 :NN3024K/BTM120 NN3020K	P4 级 :NN3026K/BTM130 NN3022K
	液压卡盘 Hydraulic chuck	KPT	24" 中实			24" 中实	6" 中空	8" 中空	10" 中空	8" 中空	10" 中空
	回转油缸 Chuck Rotary cylinder	KPT	RH200			RH200	TK646	TK852	TK1075	TK852	TK1075
	X轴导轨 X-axis guide rail	HIWIN/银泰	Roller track滚柱55			Roller track滚柱55	Roller track滚柱30	Roller track滚柱30	Roller track滚柱35	Roller track滚柱35	Roller track滚柱45
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Roller track滚柱55			Roller track滚柱55	Roller track滚柱30	roller track滚柱35	Roller track滚柱45	Roller track滚柱35	Roller track滚柱45
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	4010-C3 研磨级			4010-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	5512-C3 研磨级			5512-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级	4010-C3 研磨级	3210-C3 研磨级	4010-C3 研磨级

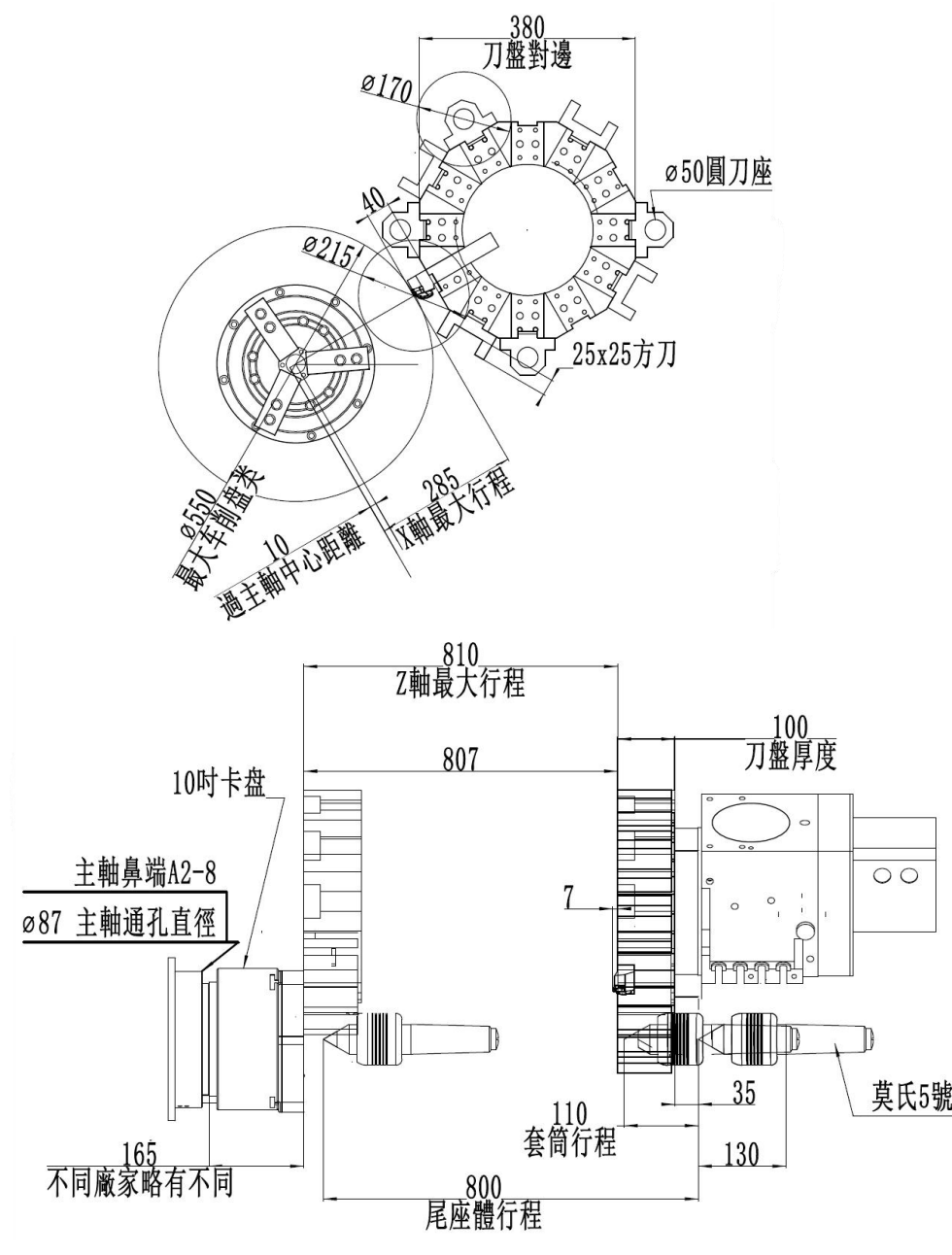


HL系列T型 刀塔机能力与干涉 Ability and Intervention

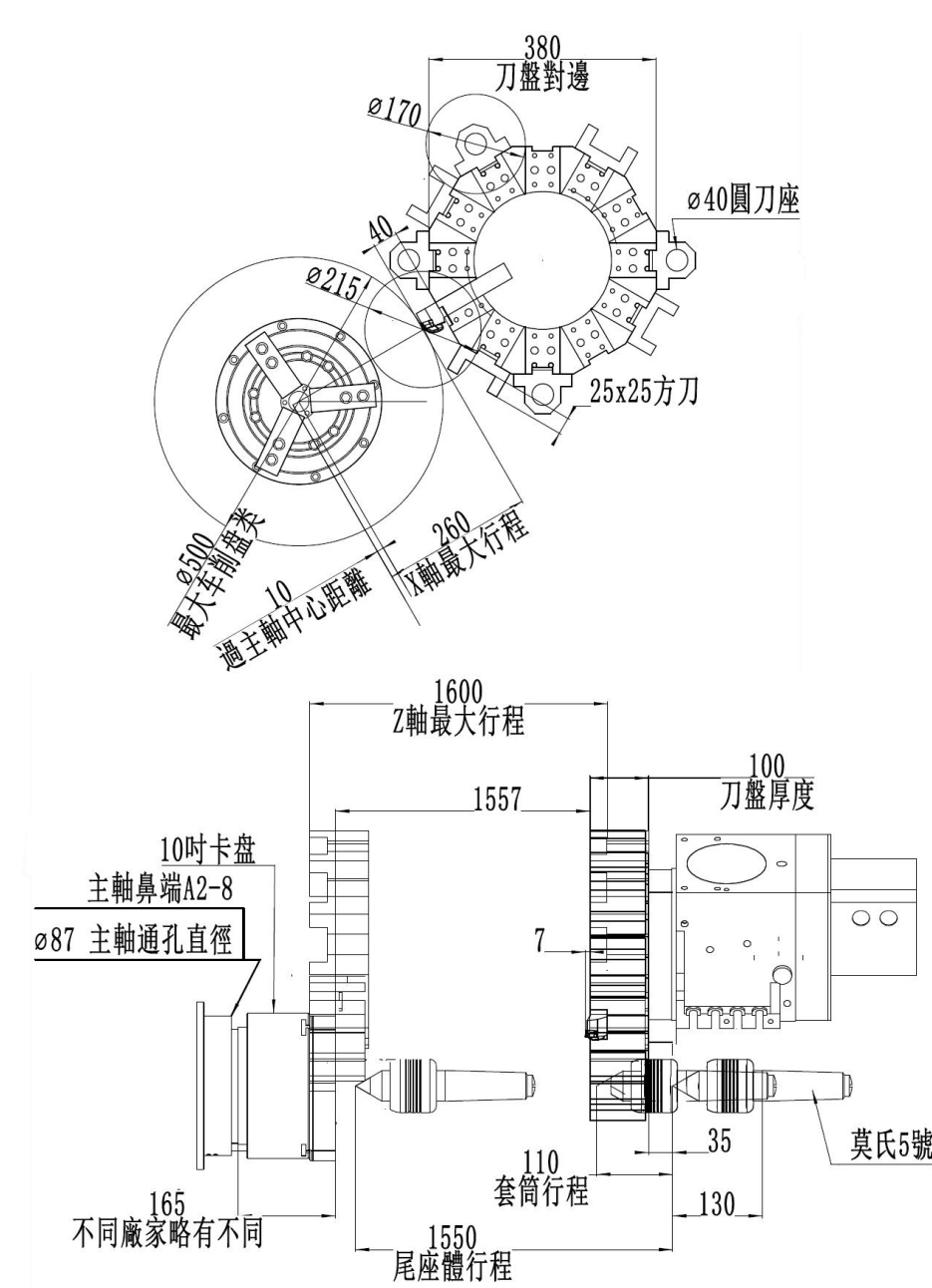
HL250-800T (500S-800)



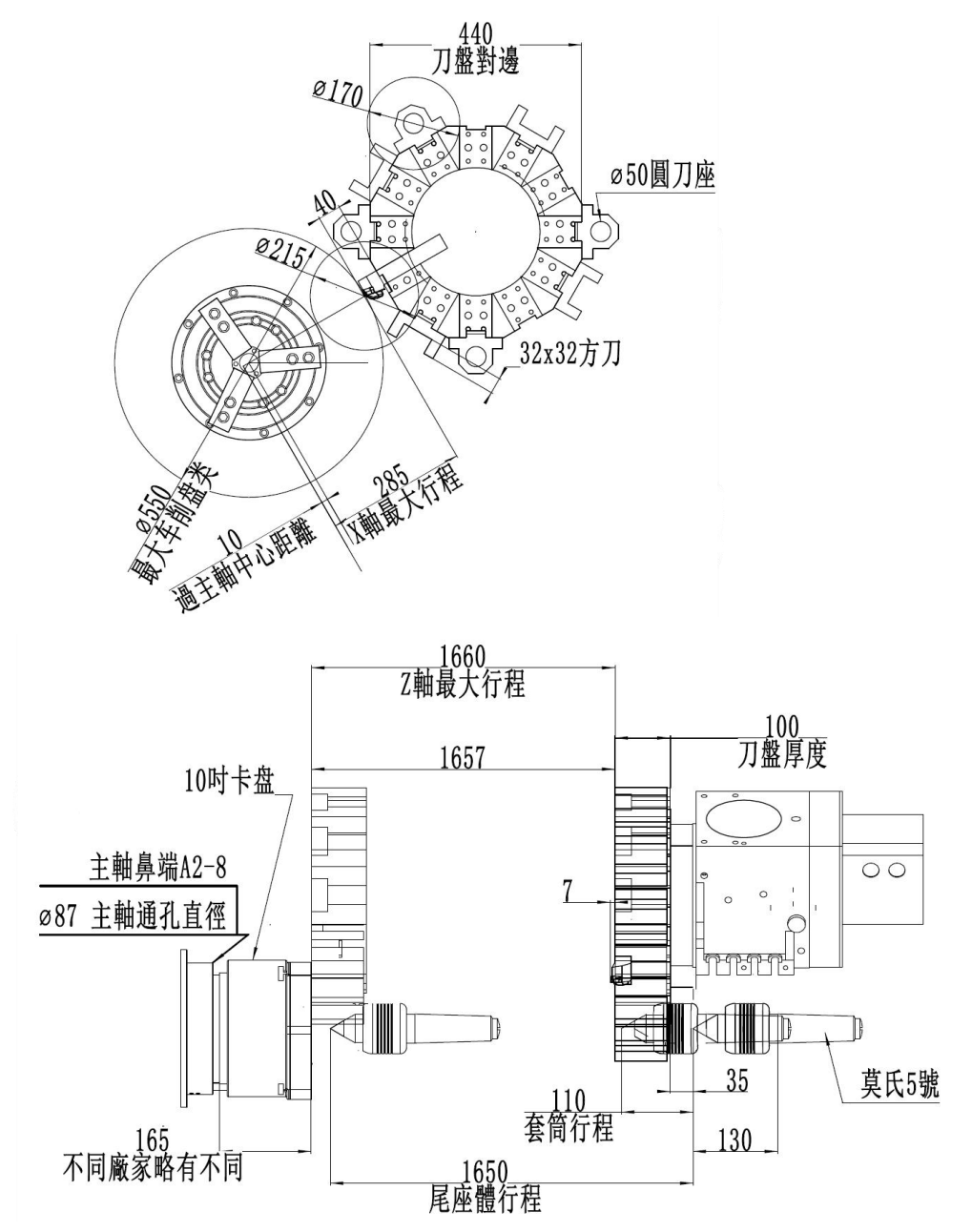
HL250-800T-II (550S-800)



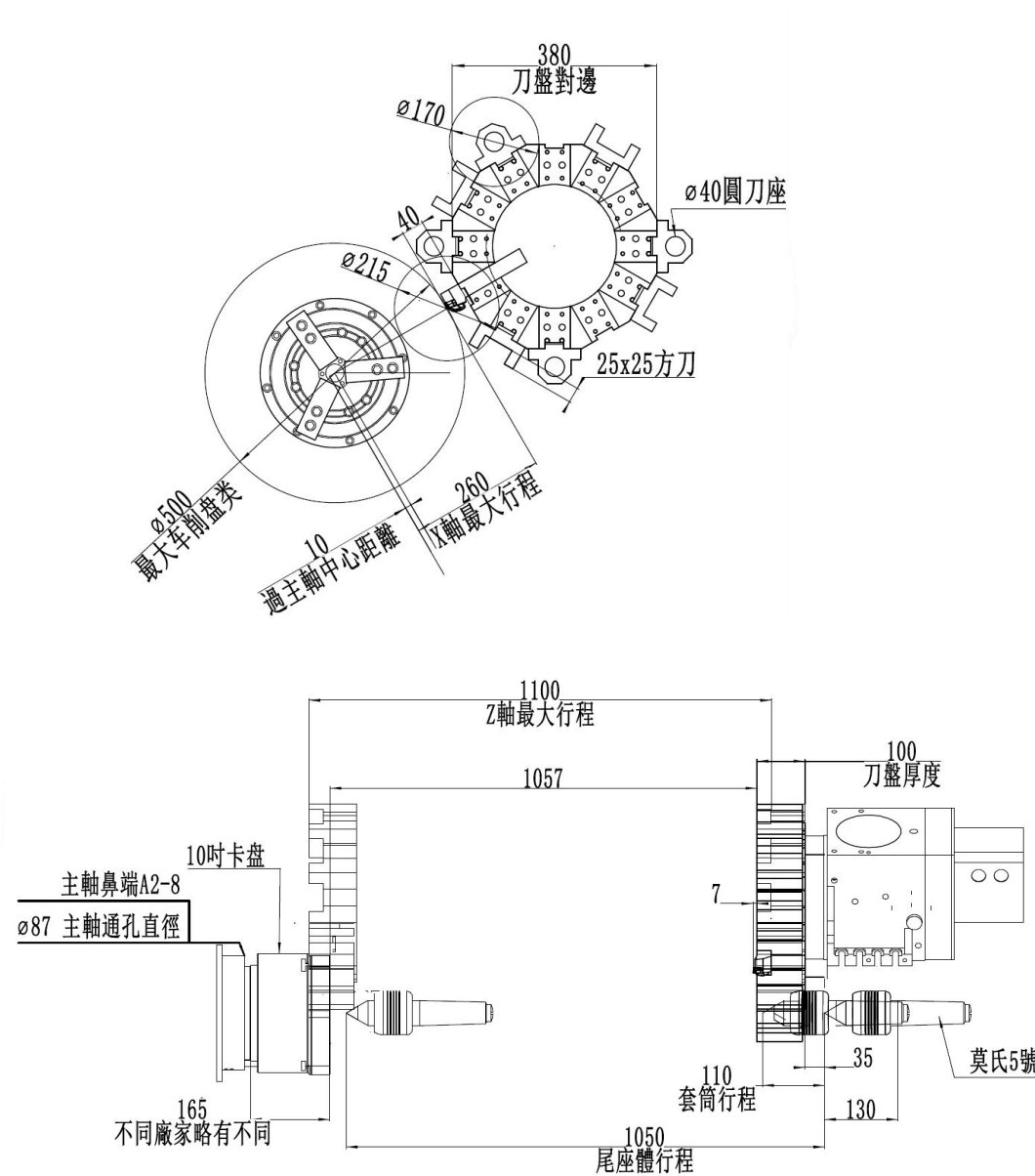
HL250-1550T (500S-1550)



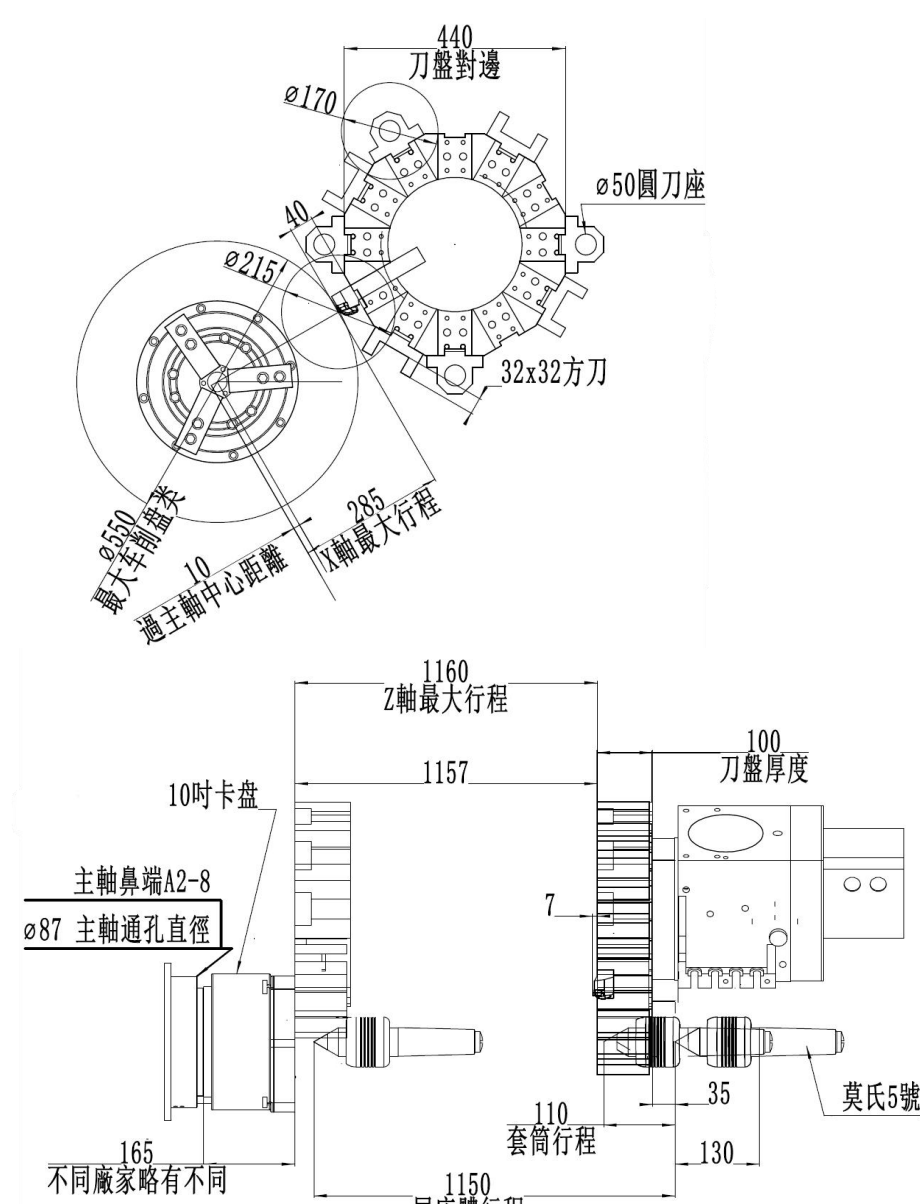
HL250-1650T (550S-1650)



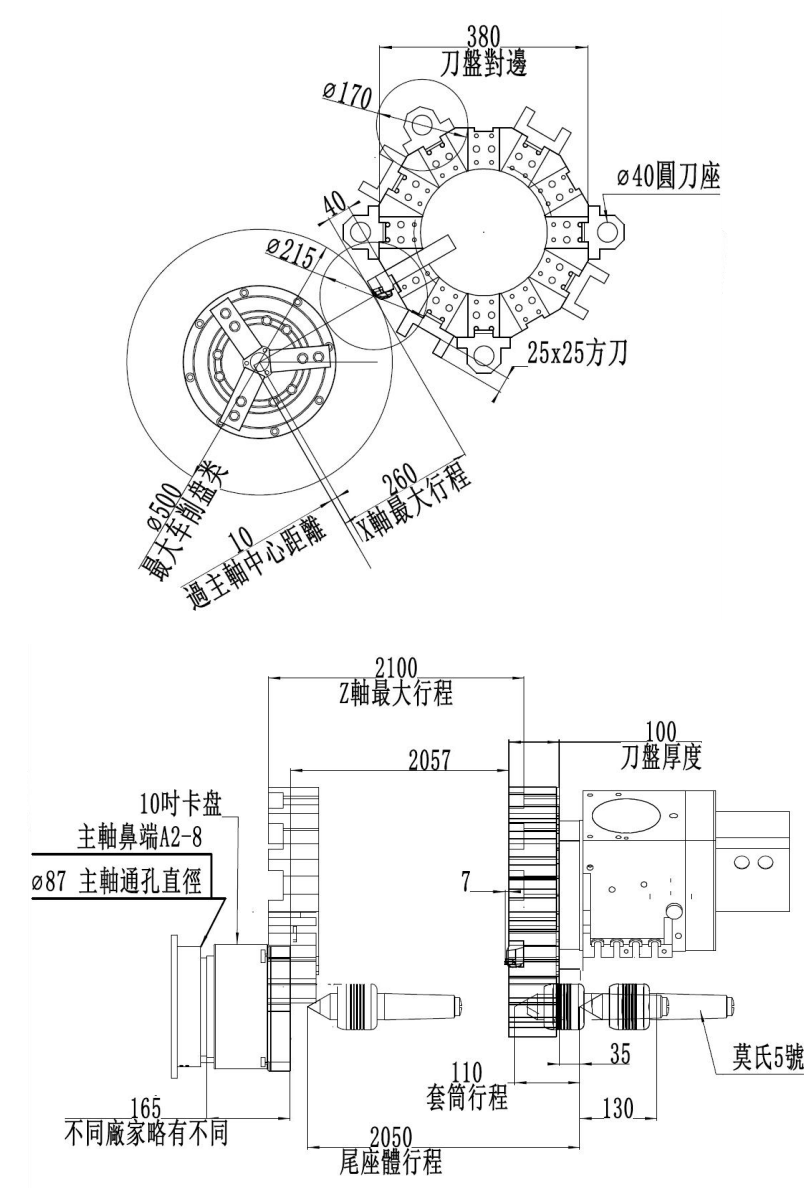
HL250-1050T (500S-1050)



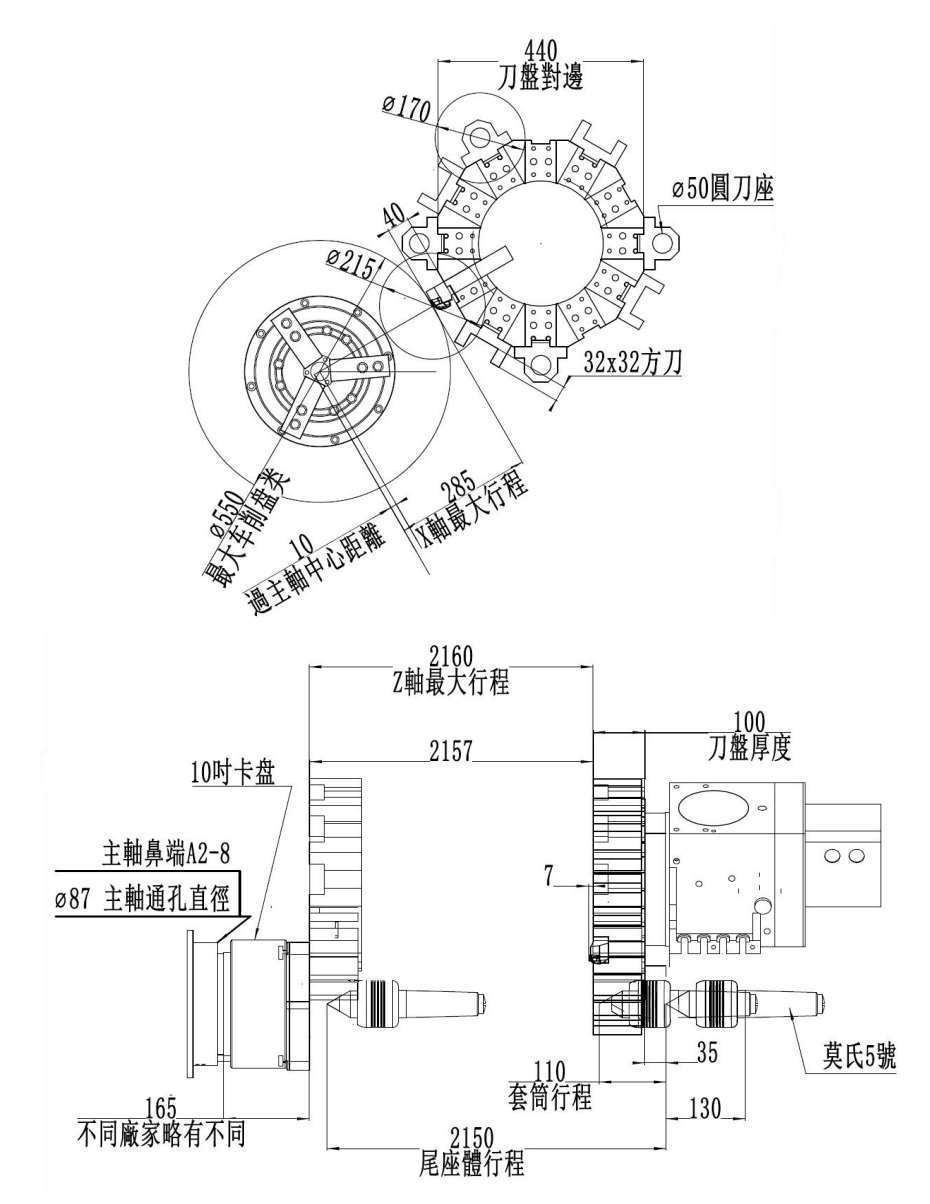
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HL250-2050T (500S-2050)



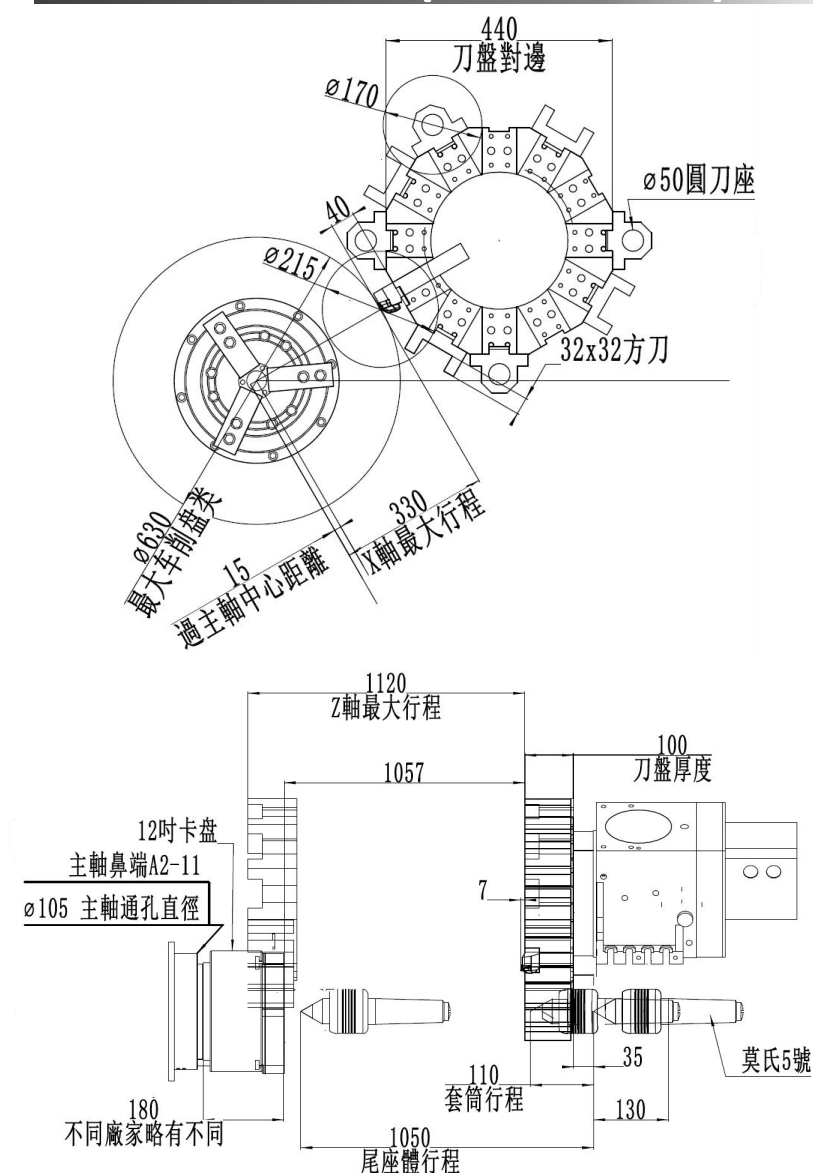
HL250-2150T



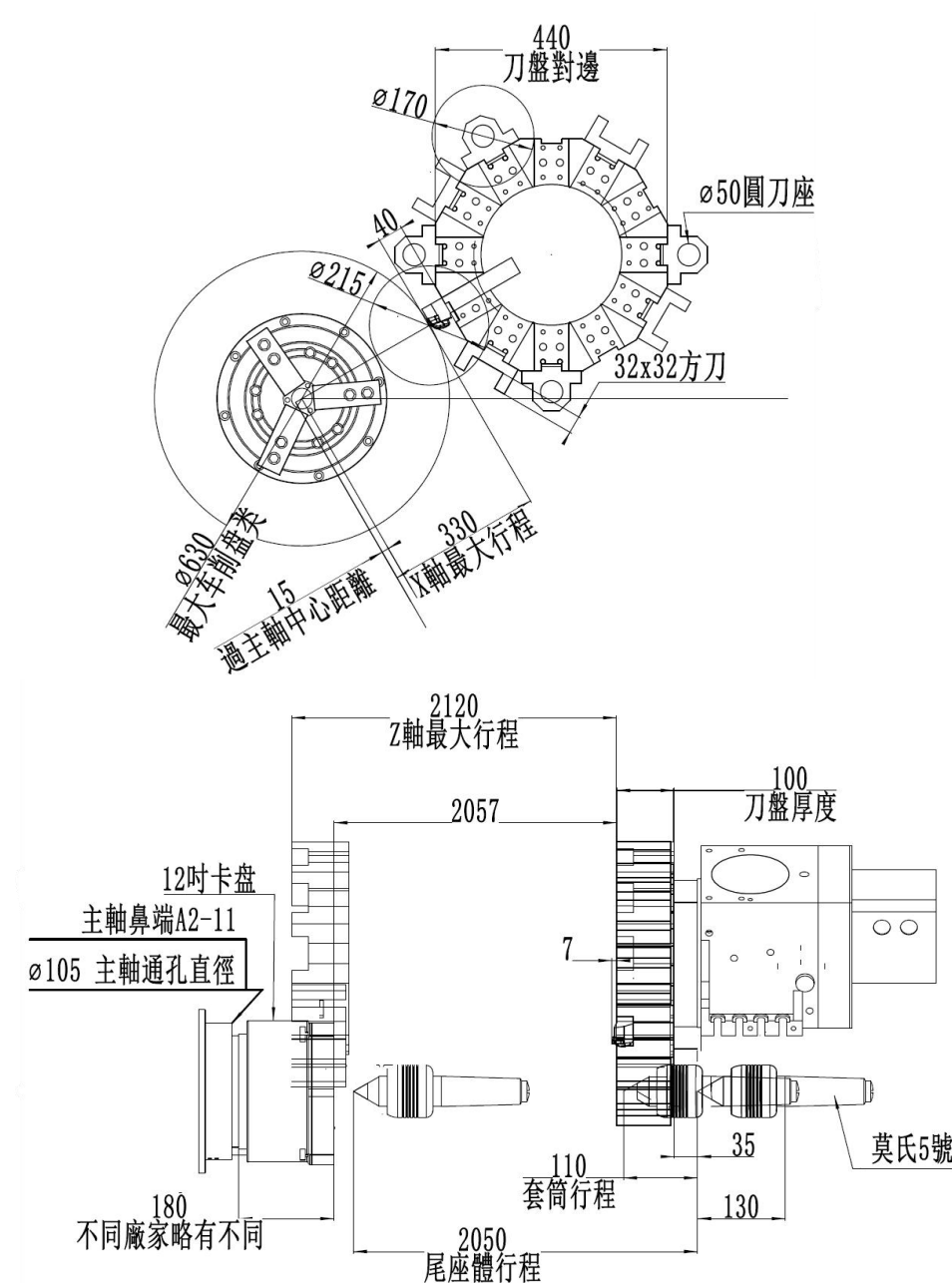


HL系列T型 刀塔机能力与干涉 Ability and Intervention

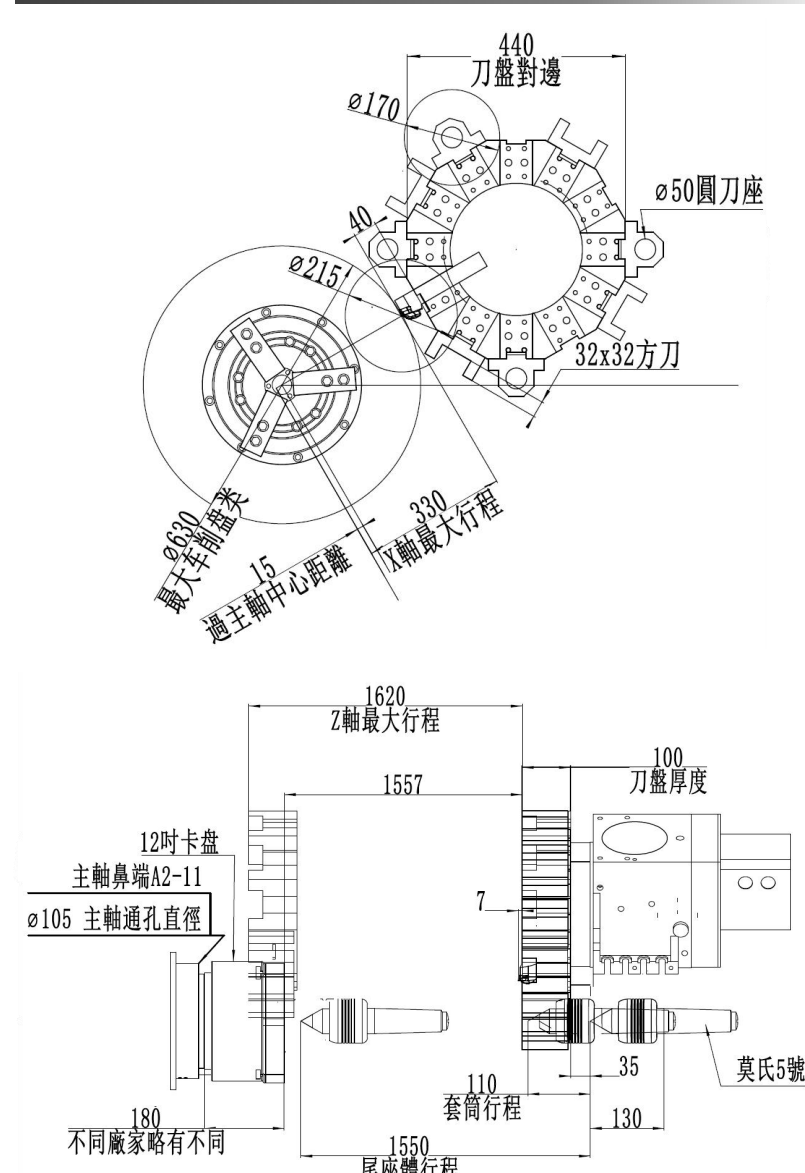
HL300-1050T (630S-1000)



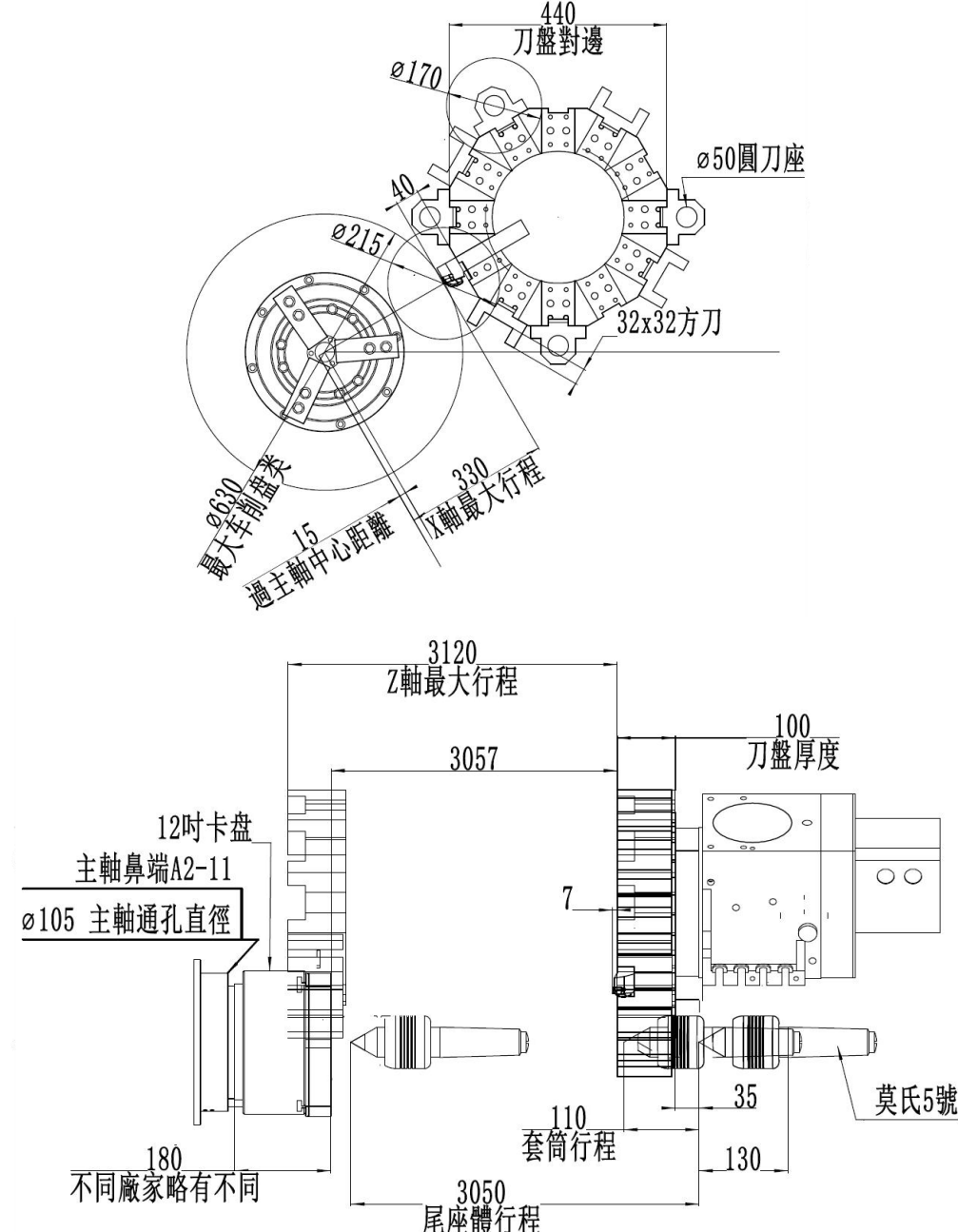
HL300-2050T



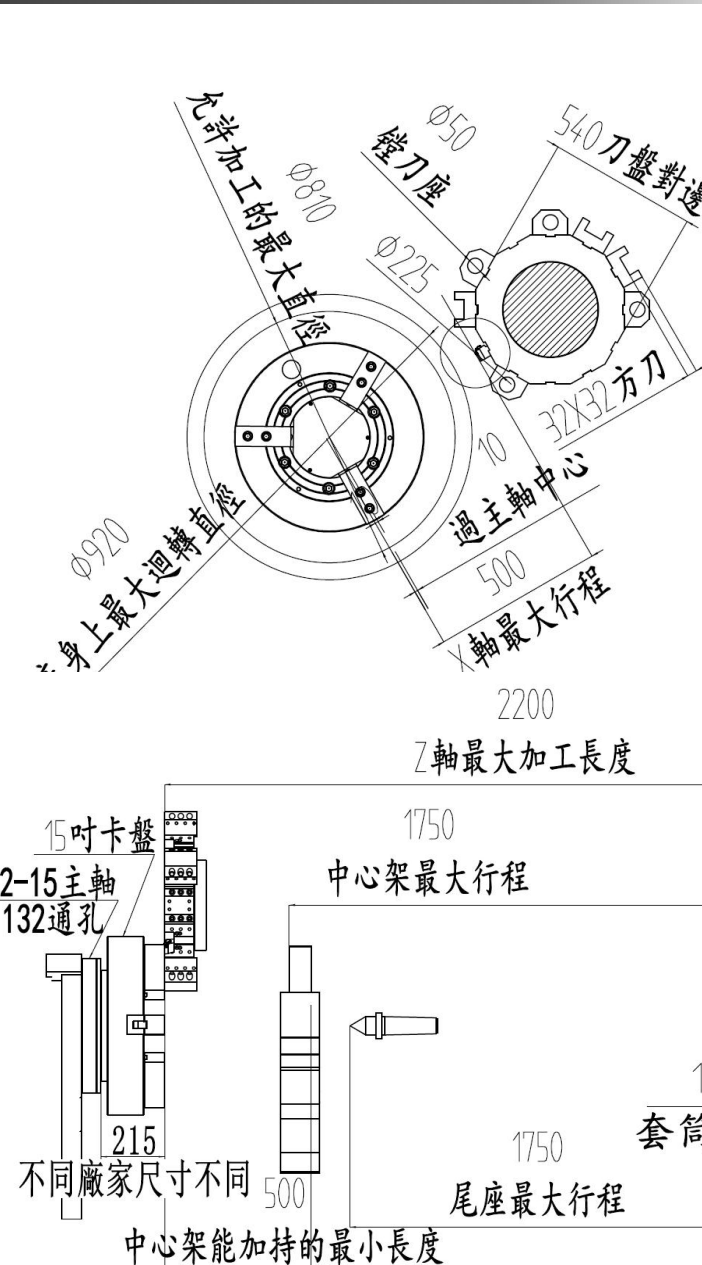
HL300-1550T



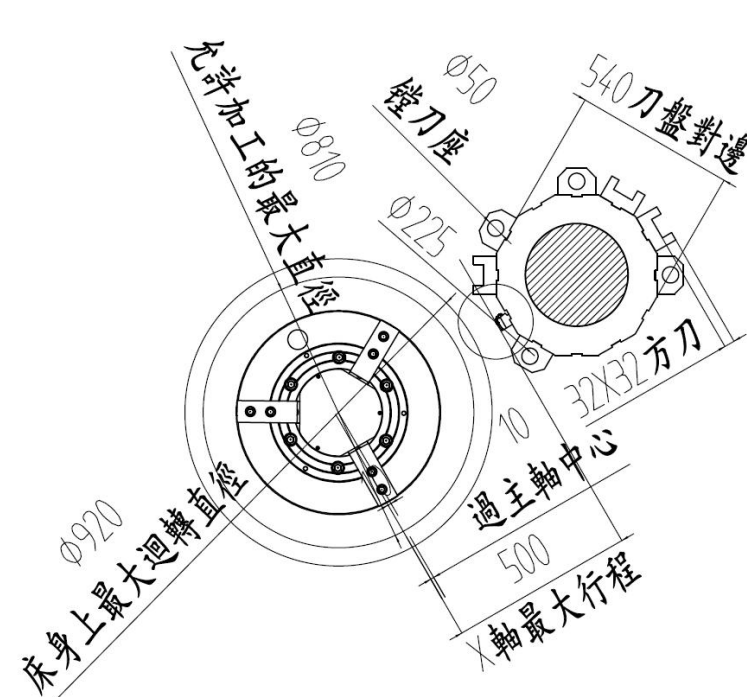
HL300-3050T



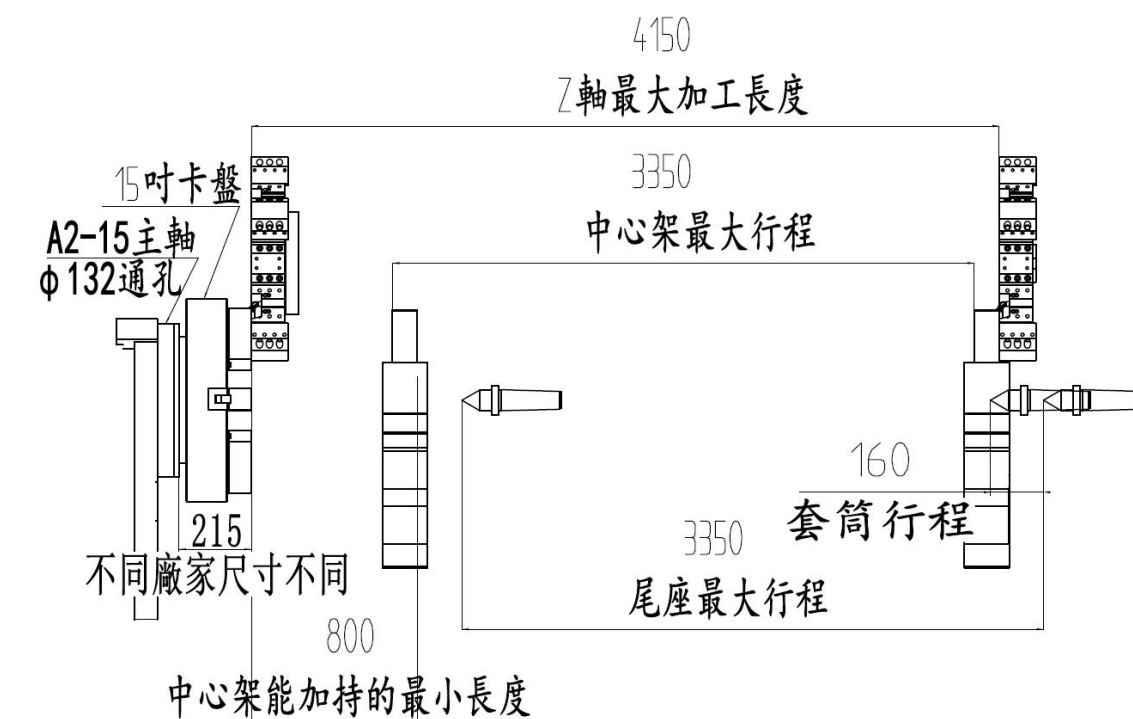
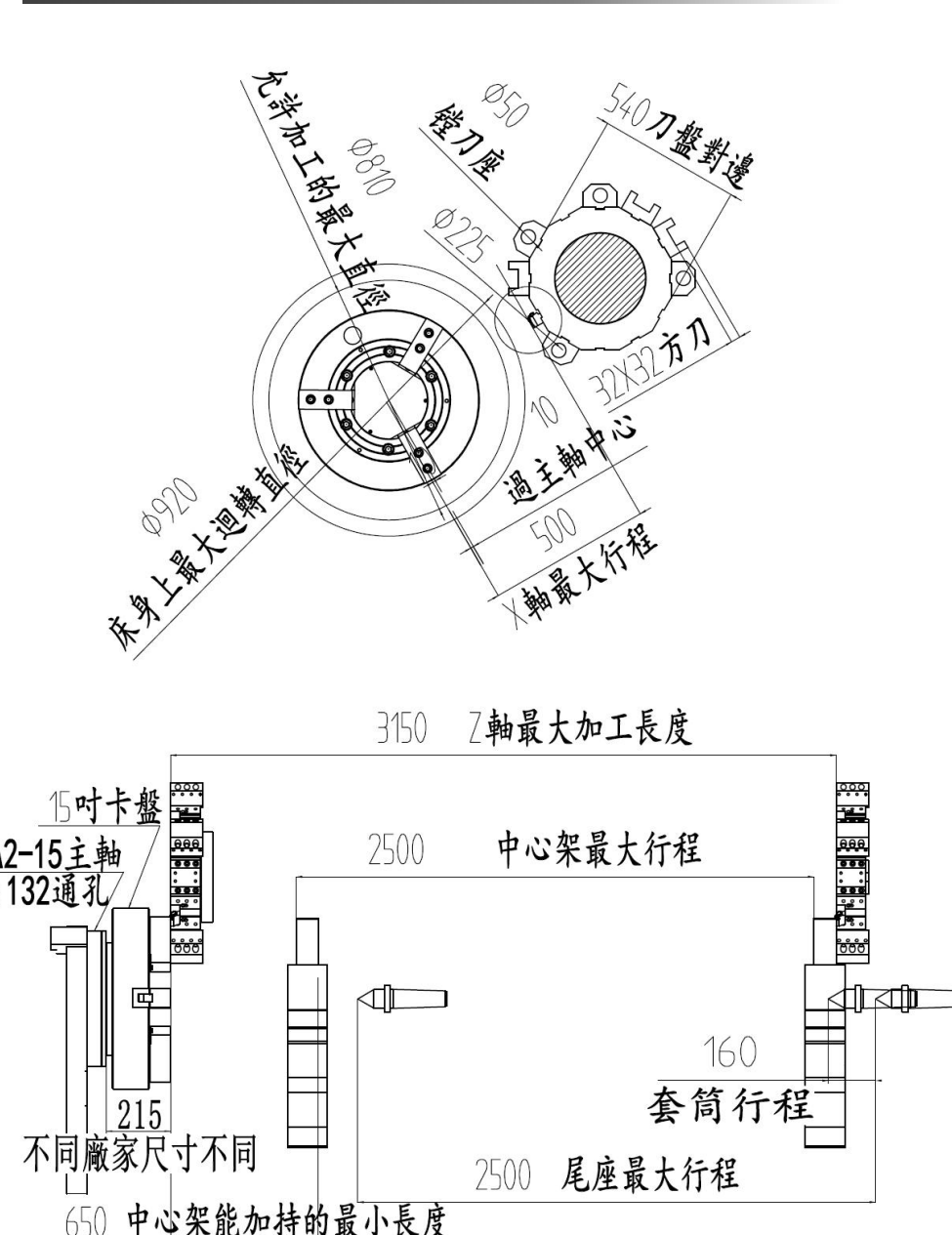
HL380-2200T



HL380-4150T



HL380-3150T





HL系列M/Y车系复合 参数配置

HL-M/Y Mechanical Specifications

项目 Task	名称 Name	单位Unit	HL150-300M	HL200-600M (500SD)		HL200-300Y (30DY)	HL200-350Y (40DY)	HL200-550Y (50DY)
加工范围 Machining Range	床身最大回转直径 Max Swivel D	mm	Φ510	Φ630		Φ510	Φ550	Φ550
	最大加工直径 (轴/盘) Max D (shaft/disc)	mm	Φ250	Φ360		Φ150/Φ210	Φ240/Φ320	Φ240/Φ320
	最大加工长度 Max L	mm	270	550		250	350	550
主轴Spindle	主轴类型 Spindle Type	机械/单元	A2-5	A2-6		A2-6	A2-6	A2-6
	主轴通孔直径 Spindle bore	mm	Φ56	Φ66		Φ66	Φ66	Φ66
	拉管通孔直径Diameter of pull tube through-hole	mm	Φ46	Φ52		Φ52	Φ52	Φ52
	主轴转速范围 Spindle speed	rpm	50-4000	50-4200		50-3000	50-4200	50-4200
	主轴电机功率 Spindle motor	kw	11	11		7.5	11	11
	液压卡盘 Hydraulic chuck	寸	6	8		8	8	8
XYZ行程Moving distance	X轴工作行程 X-axis stroke	mm	135	240		135	220	220
	Y轴工作行程 Y-axis stroke	mm				±30	±50	±50
	Z轴工作行程 Z-axis stroke	mm	345	600		360	445	545
	WK(尾座)轴工作行程 WK-axis stroke	mm		435				
刀塔Lathe tool library	刀架类型 Tool library	T	丞鑫 TCSD80-12T-295	丞鑫 TCSD100-12T-BMT55		三和 SHDY12CR-240	丞鑫 TCSDY80H-12T-330	丞鑫 TCSDY80H-12T-330
	车刀座尺寸 Tool size	mm	25X25	25X25		20X20	25X25	25X25
	镗刀座尺寸 boring tool	mm	Φ32	Φ32		Φ25	Φ32	Φ32
尾座Tailstock	尾座套筒 Tailstock sleeve	Mohs	MT4#	MT5#		MT4#	MT5#	MT5#
	尾座行程 Tail seat travel	mm	320	435		320	305	505
	尾座套筒行程 Sleeve travel	mm	110	110		110	110	110
移动速度 movement speed	X轴快移速度 X-axis velocity	m/min	30	30		20	20	20
	Y轴快移速度 Y-axis velocity	m/min				10	10	10
	Z轴快移速度 Z-axis velocity	m/min	30	30		20	20	20
	WK(尾座)轴快移速度 WK-axis velocity	m/min		20				
马达 Motor	主轴电机功率 Spindle motor	kw	11	11		7.5	11	11
	X轴电机功率 X-axis motor	kw	2.4(11.5 Nm)	2.4(11.5 Nm)		2.4(11.5 Nm)	3.1(15 Nm)	3.1(15 Nm)
	Y轴电机功率 Y-axis motor	kw				1.1(5.39Nm)	1.1(5.39Nm)	1.1(5.39Nm)
	Z轴电机功率 Z-axis motor	kw	2.4(11.5 Nm)	2.4(11.5 Nm)		2.4(11.5Nm)	2.4 (11.5Nm)	2.4 (11.5Nm)
	铣削动力电机	kw	2.3(11 Nm)	2.3(11Nm)		2.3(11Nm)	2.3(11Nm)	2.3(11Nm)
	WK(尾座)轴电机功率 WK-axis motor	kw		2.4(11.5 Nm)				
	液压电机 Hydraulic motor	kw	1.5	1.5		1.5	1.5	1.5
	润滑电机 Lubricating motor	kw	0.02	0.02		0.02	0.02	0.02
所需动力源	冷却电机 Cooling motor	kw	0.45	0.45		0.45	0.45	0.45
	机床总电力 Total Electricity	Kva	18.0	22.0		18.0	22.0	22.0
精度 Positioning /Repeatabilit y accuracy	主轴鼻端 Front end face of spindle	mm	0.003	0.003		0.003	0.004	0.004
	X定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003		0.005/0.003	0.005/0.003	0.005/0.003
	Y定位精度/重复定位精度	mm				0.005/0.003	0.005/0.003	0.005/0.003
	Z定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003		0.005/0.003	0.005/0.003	0.005/0.003
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	2150×1560×1730	2970×1960×1930		2170×1560×1890	2640×2070×2180	2740×1900×2040
	床身角度 Lathe body angle	度°		30°			30°	30°
	机床重量 Machine weight	KG	2500	6500		2800	3900	4800

标准配置 Standard configuration

项目 Task	名称 Name	厂家Factory	规格型号 Specification and model					
标准配置 Standard Setup	控制系统 NC System	SYNTEC	SYNTEC 22TA	SYNTEC 22TA		SYNTEC 22TB	SYNTEC 22TB	SYNTEC 22TB
	主轴轴承 Spindle bearing	CSC/SKF	P4 级 :7018AC/7016AC	P4级NN3024K/BTM120/NN3020K		P4	P4 级NN3024K/BTM120/NN3020K	P4 级NN3024K/BTM120/NN3020K
	液压卡盘 Hydraulic chuck	KPT	6" 中空	8" 中空		8" 中空	8" 中空	8" 中空
	回转油缸 Chuck Rotary cylinder	KPT	TK646	TK852		TK852	TK852	TK852
	X轴导轨 X-axis guide rail	HIWIN/银泰	Roller track滚柱35	Roller track滚柱35		Roller track滚柱35	Roller track滚柱35	Roller track滚柱35
	Y轴导轨 Y-axis guide rail	HIWIN/银泰				-----	-----	-----
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Roller track滚柱35	Roller track滚柱35		Roller track滚柱35	Roller track滚柱35	Roller track滚柱35
	WK(尾座)轴导轨 WK-axis guide rail	HIWIN/银泰		Roller track滚柱35				
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	3210-C3 研磨级	3210-C3 研磨级		3210-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级
	Y轴滚珠丝杆 Y-axis ball screw	HIWIN/银泰				-----	-----	-----
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	3210-C3 研磨级	3210-C3 研磨级		3210-C3 研磨级	3210-C3 研磨级	3210-C3 研磨级
	WK(尾座)轴滚珠丝杆 WK-axis ball screw	HIWIN/银泰		3210-C3 研磨级				





HL系列M/S/Y车系复合 参数配置

项目 Task	名称 Name	单位Unit	HL200-400SY	HL200-600SM	HL250-1500SY
加工范围 Machining Range	床身最大回转直径 MaxSwivel D	mm	Φ700	Φ630	Φ800
	最大加工直径 (轴/盘) Max D (shaft/disc)	mm	Φ300	Φ220/Φ360	Φ440
	最大加工长度 Max L	mm	400	600	1500
主轴Spindle	主轴类型 Spindle Type	机械/单元	A2-6	A2-6	A2-8
	主轴通孔直径 Spindle bore	mm	Φ66	Φ66	Φ87
	拉管通孔直径Diameter of pull tube through-hole	mm	Φ52	Φ52	Φ72
	主轴转速范围 Spindle speed	rpm	50-4200	50-4200	50-4200
	主轴电机功率 Spindle motor	kw	11	11	18
	液压卡盘 Hydraulic chuck	英寸	10	8	10
XYZ行程 Moving distance	X轴工作行程 X-axis stroke	mm	210	240	285
	Y轴工作行程 Y-axis stroke	mm	±50		±50
	Z轴工作行程 Z-axis stroke	mm	530	700	1650
刀塔Lathe tool library	刀架类型 Tool library	T	丞鑫TCSD-100P12T-BMT55	丞鑫TCSD-80P-BMT45	TCSDY80HP-12T-380
	车刀座尺寸 Tool size	mm	25*25	25*25	25*25
	镗刀座尺寸 boring tool	mm	Φ32	Φ32	Φ40
移动速度 movement speed	X轴快移速度 X-axis velocity	m/min	20	30	20
	Y轴快移速度 Y-axis velocity	m/min	10		10
	Z轴快移速度 Z-axis velocity	m/min	20	30	20
马达 Motor	主轴电机功率 Spindle motor	kw	11	15	18
	X轴电机功率 X-axis motor	kw	3.1 (15Nm)	2.4 (11.5 Nm)	3.9 (18.6Nm)
	Y轴电机功率 Y-axis motor	kw	2.3 (11 Nm)		1.7 (8.34Nm)
	Z轴电机功率 Z-axis motor	kw	3.1 (15Nm)	2.4 (11.5 Nm)	3.9 (18.6Nm)
	铣削动力电机	kw	3.1 (15Nm)	2.3 (11 Nm)	3.1 (15Nm)
	液压电机 Hydraulic motor	kw	1.5	1.5	1.5
	润滑电机 Lubricating motor	kw	0.02	0.02	0.02
	冷却电机 Cooling motor	kw	0.45	0.45	0.45
所需动力源	机床总电力 Total Electricity	Kva	36	36	50
精度 Positioning /Repeatability accuracy	主轴鼻端 Front end face of spindle	mm	0.003	0.003	0.003
	X定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003	0.005/0.003
	Y定位精度/重复定位精度	mm	0.005/0.003	--	0.005/0.003
	Z定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003	0.005/0.003
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	3100x2235x2250	2970×1960×1930	4400×3000×2200
	床身角度 Lathe body angle	度°	30°	30°	30°
	机床重量 Machine weight	KG	5500	6500	9500
标准配置 Standard configuration					
项目 Task	名称 Name	厂家Factory	规格型号 Specification and mode		
标准配置 Standard Setup	控制系统 NC System		22TB	SYNTEC 22TB	SYNTEC 22TB
	主轴轴承 Spindle bearing	CSC/SKF	P4级 NN3024K/BTM120/NN3020K	P4级 NN3024K/BTM120/NN3020K	P4级 NN3026K/BTM130/NN3022K (副主轴) NN3024K/BTM120/NN3020K
	液压卡盘 Hydraulic chuck	KPT	8寸	8寸	10寸
	回转油缸Chuck Rotary cylinder	KPT	TK852/RH100	TK852/RH100	TK1075/RH125
	X轴导轨 X-axis guide rail	HIWIN/银泰	Roller track滚柱35	Roller track滚柱35	Roller track滚柱55
	Y轴导轨 Y-axis guide rail	HIWIN/银泰	Roller track滚柱35	----	----
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Roller track滚柱35	Roller track滚柱35	Roller track滚柱55
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	3210-C3 研磨级	3210-C3 研磨级	4010-C3 研磨级
	Y轴滚珠丝杆 Y-axis ball screw	HIWIN/银泰	3210-C3 研磨级	----	----
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	3210-C3 研磨级	3210-C3 研磨级	5010-C3 研磨级

HL-M/S/Y Mechanical Specifications

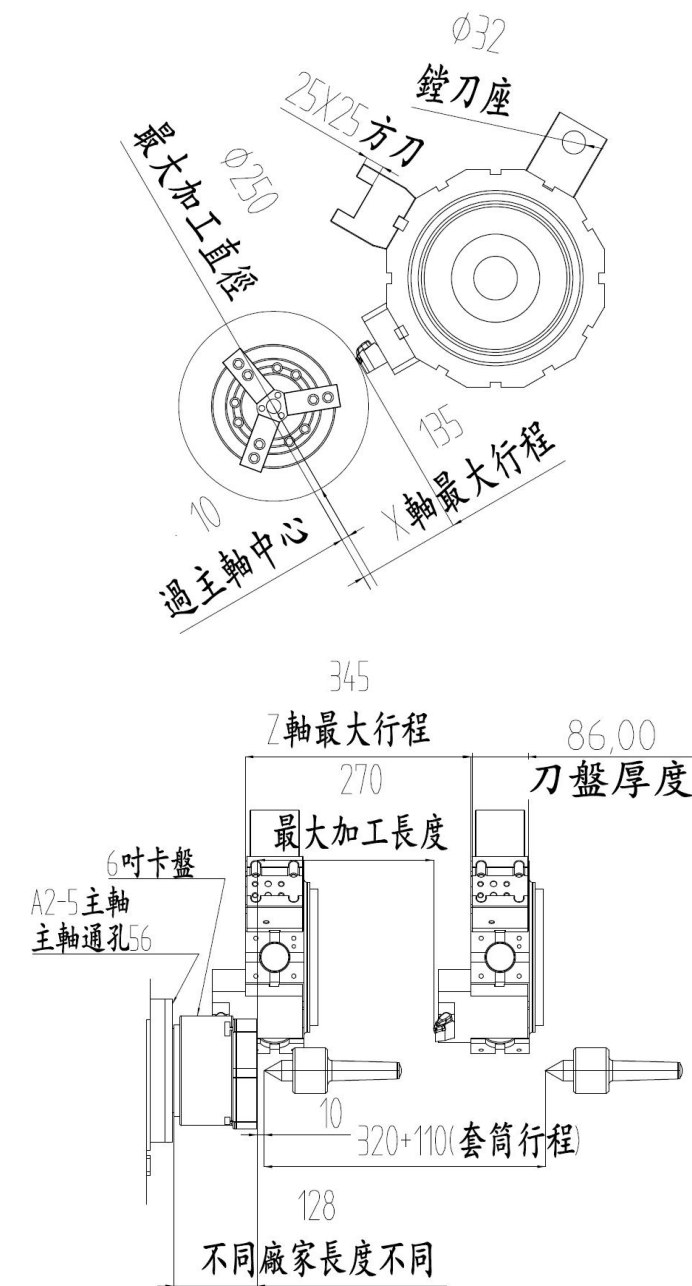
项目	分类	功能	HL200-400SY	HL200-600SM	HL250-1500SY
伺服 第二主轴 CNC Auxiliary spindle	主轴Spindle	主轴类型 Spindle type	A2-5	A2-5	A2-6
		主轴动力spindle torque	11KW	(11Kw)	(14.1Kw)
	第二主轴进给 Second spindle feed	Z1 (S轴进给) 轴电机扭矩 Z1-axis motor torque	11Nm	11.5Nm	11.5Nm
		Z1 (S轴进给) 行程 Z1-axis stroke	500mm	620mm	900mm
		Z1 (S轴进给) 快移速度 Z1-axis velocity	20m/min	30m/min	6m/min
	中心支架 Center bracket	Z2中心支架电机扭矩Center bracket motor			11.5Nm
		Z2中心支架行程 Center bracket trip			900mm
		Z2快速移动 Speed			6m/min
		夹持范围 Clamping range			Φ40-260mm
		中心支架形式 Center bracket			液压 hydraulic pressure
		Y轴类型 Y-axis type	差补Y		直Y动力刀塔
Y轴动力刀架 Y-axis power Tool library	刀架规格Tool library model	丞鑫 TCSD-100P12T- BMT55			丞鑫 TCSDY80-HP-12T- 380-BMT55
		切削最大扭矩 Max torque	15Nm		15Nm



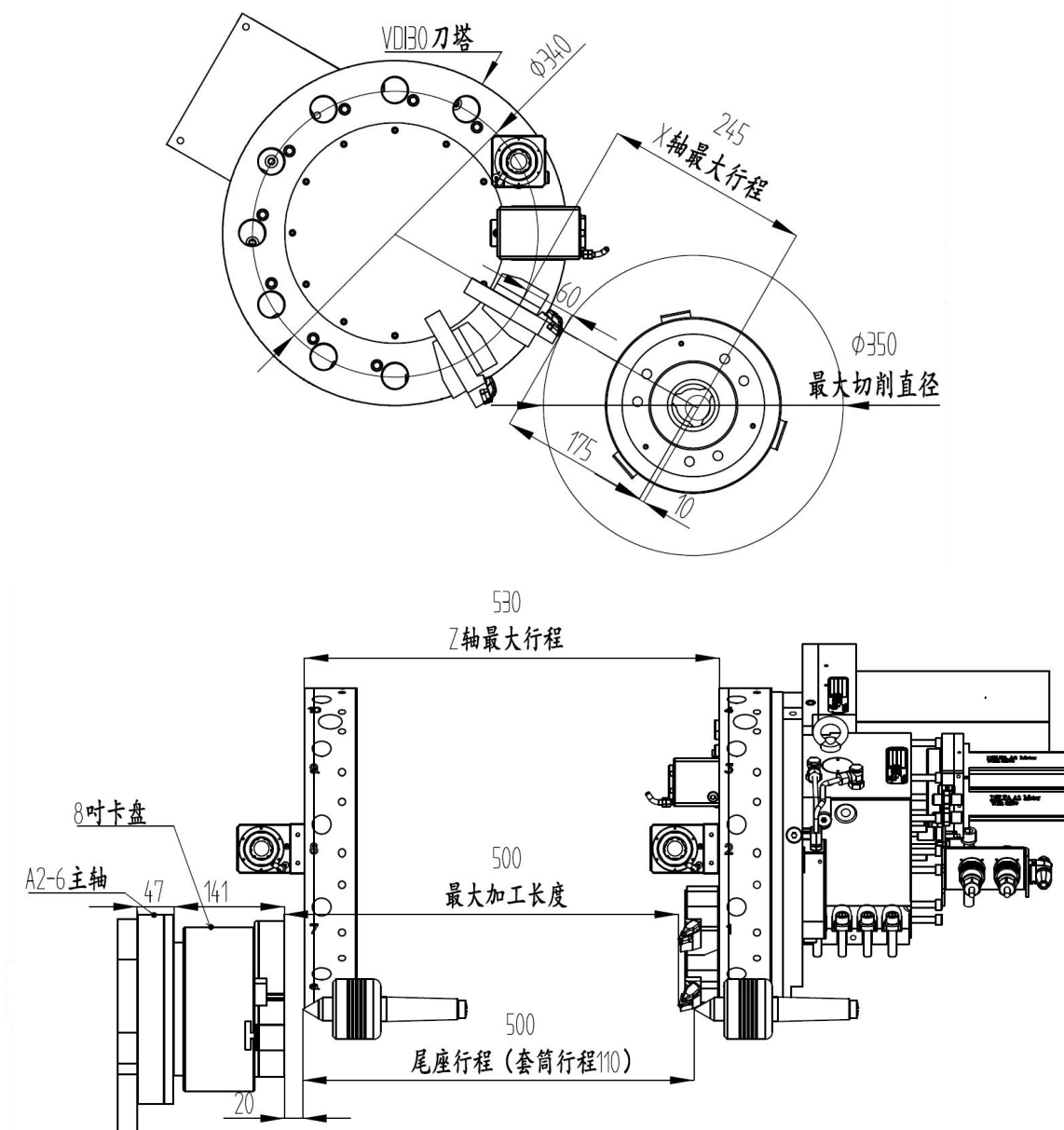


HL系列M/S/Y 车系复合能力与干涉 Ability and Intervention

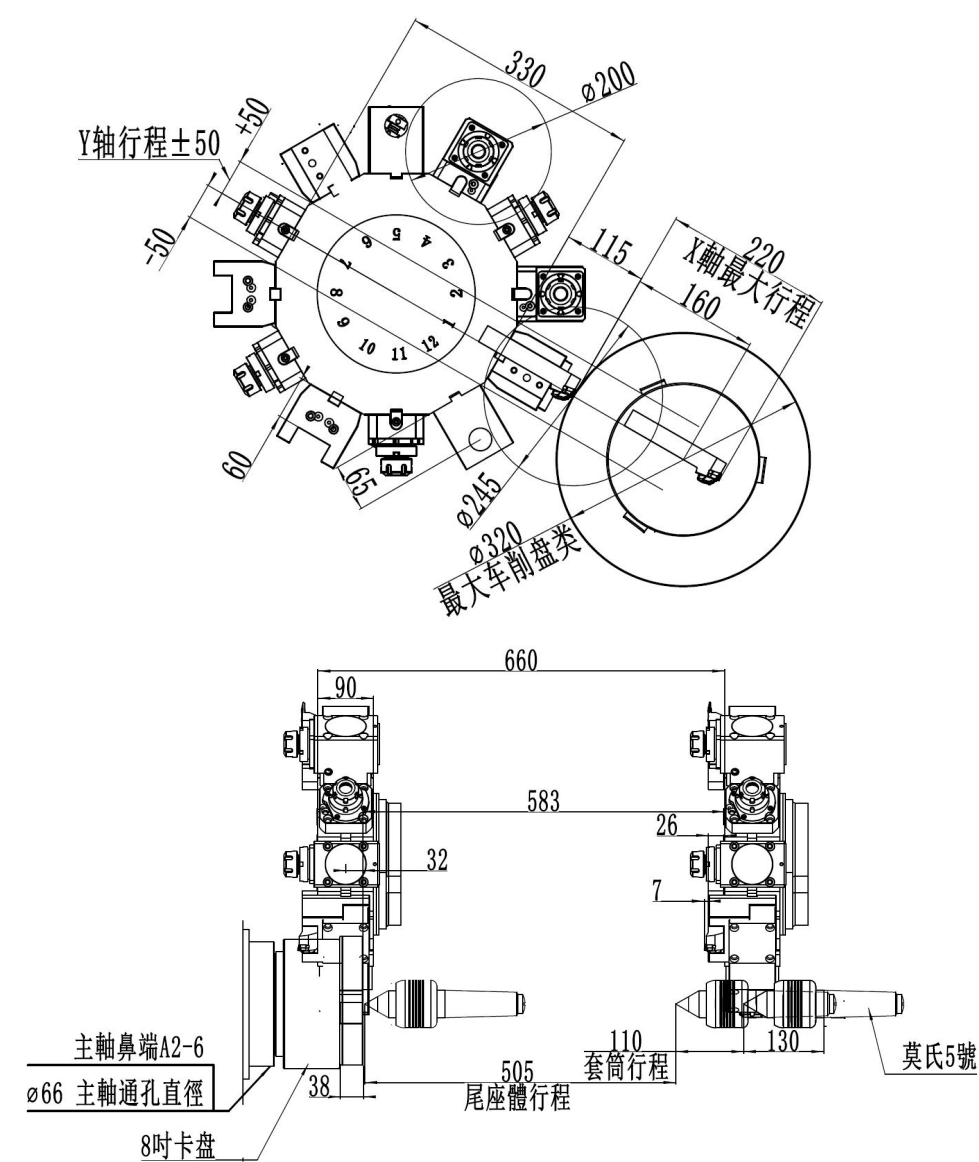
HL150-300M



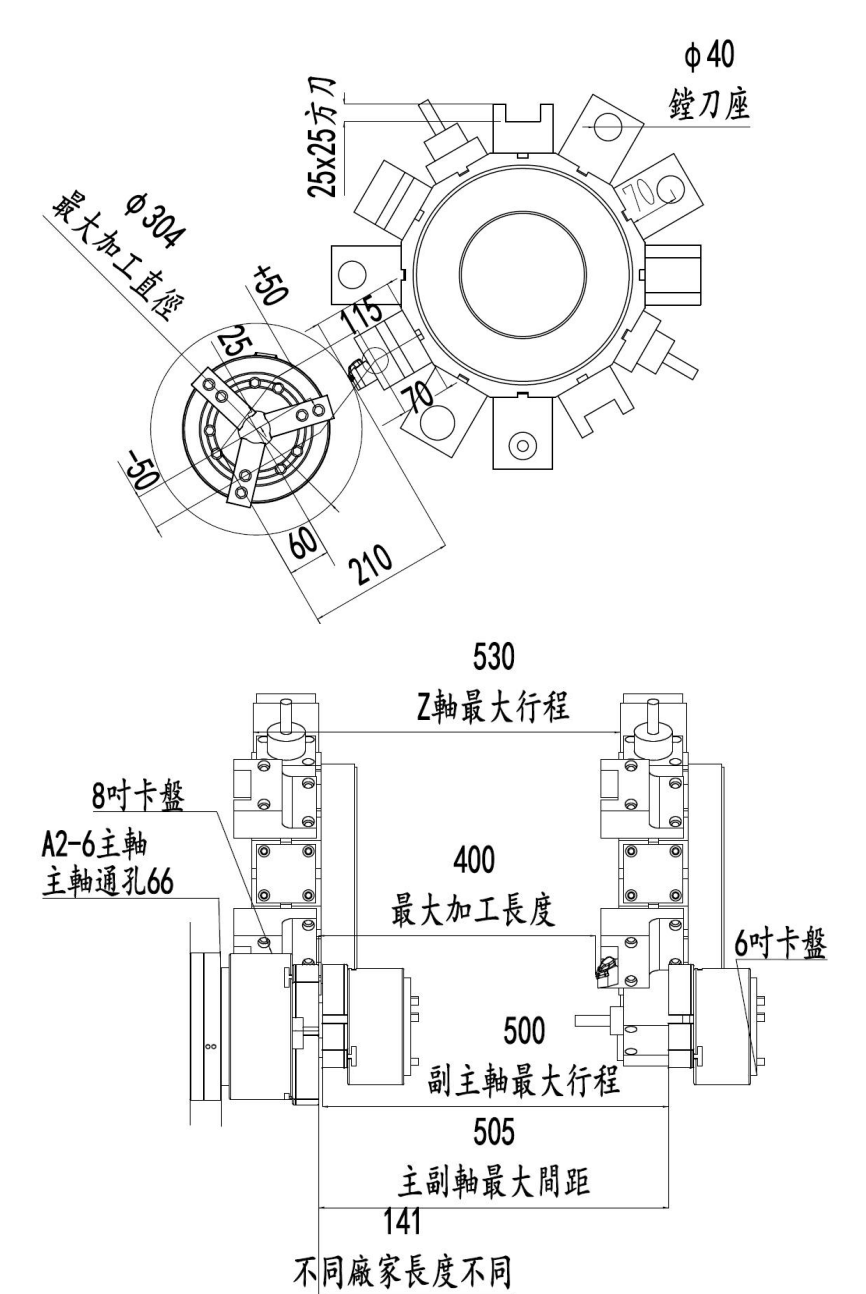
HL200-550M



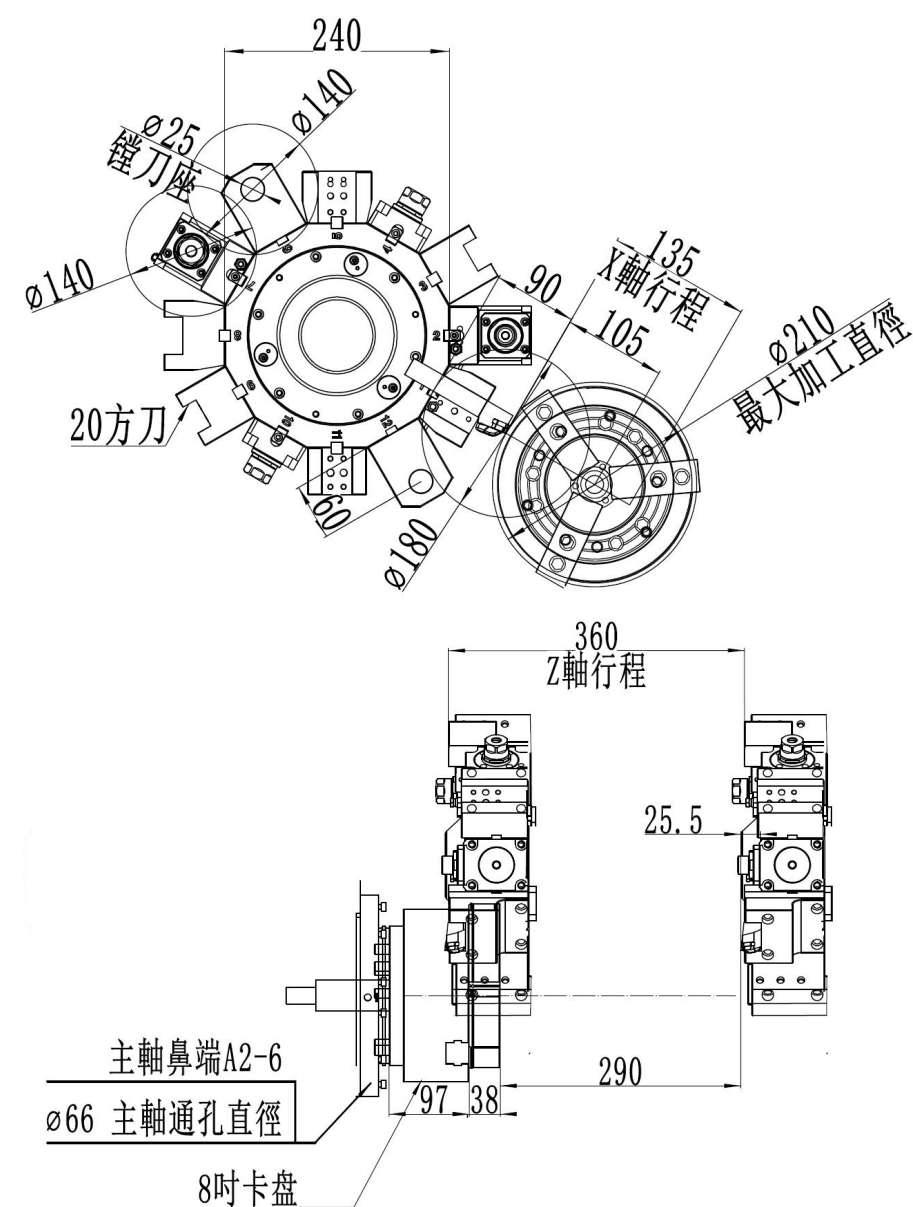
HL200-550Y (50DY)



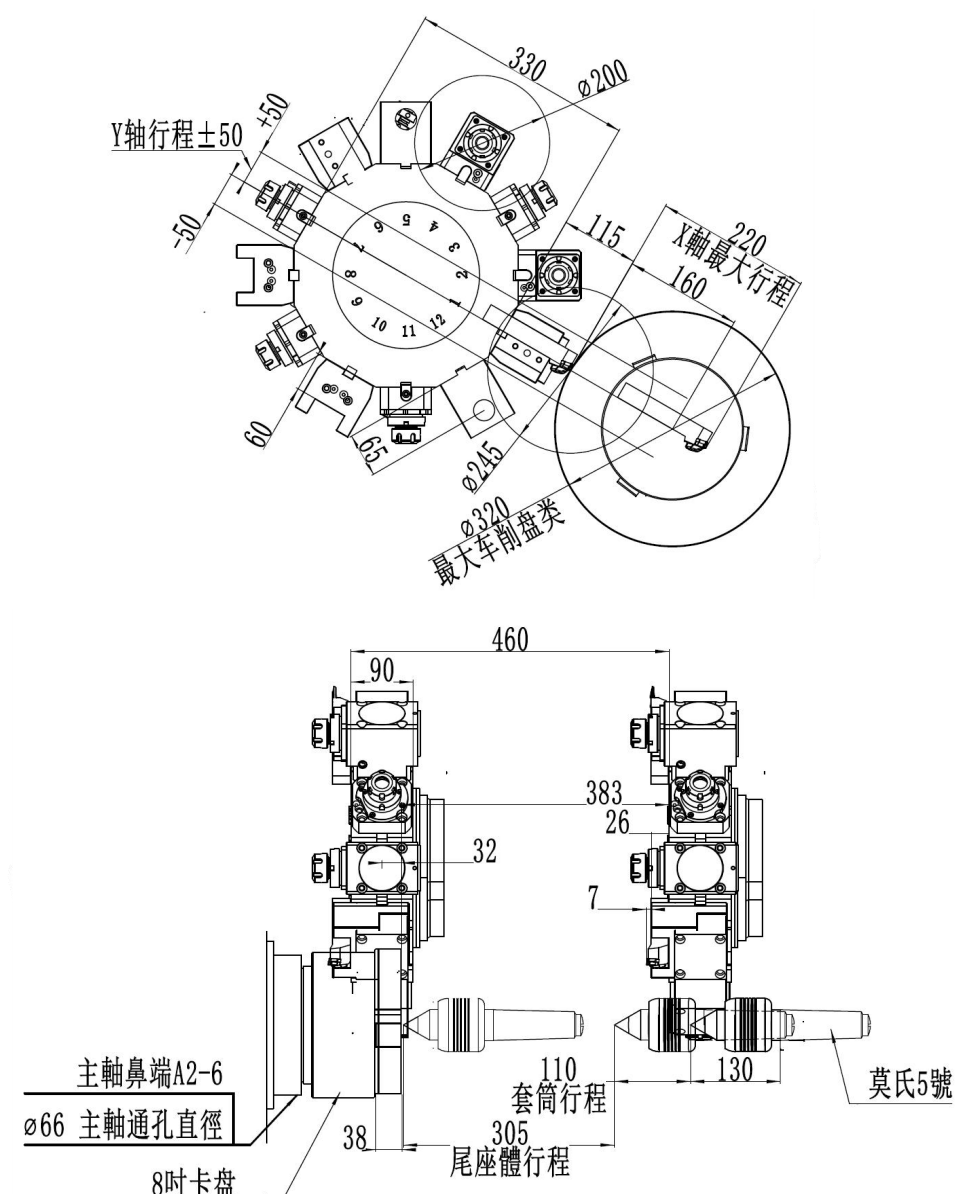
HL200-400SY



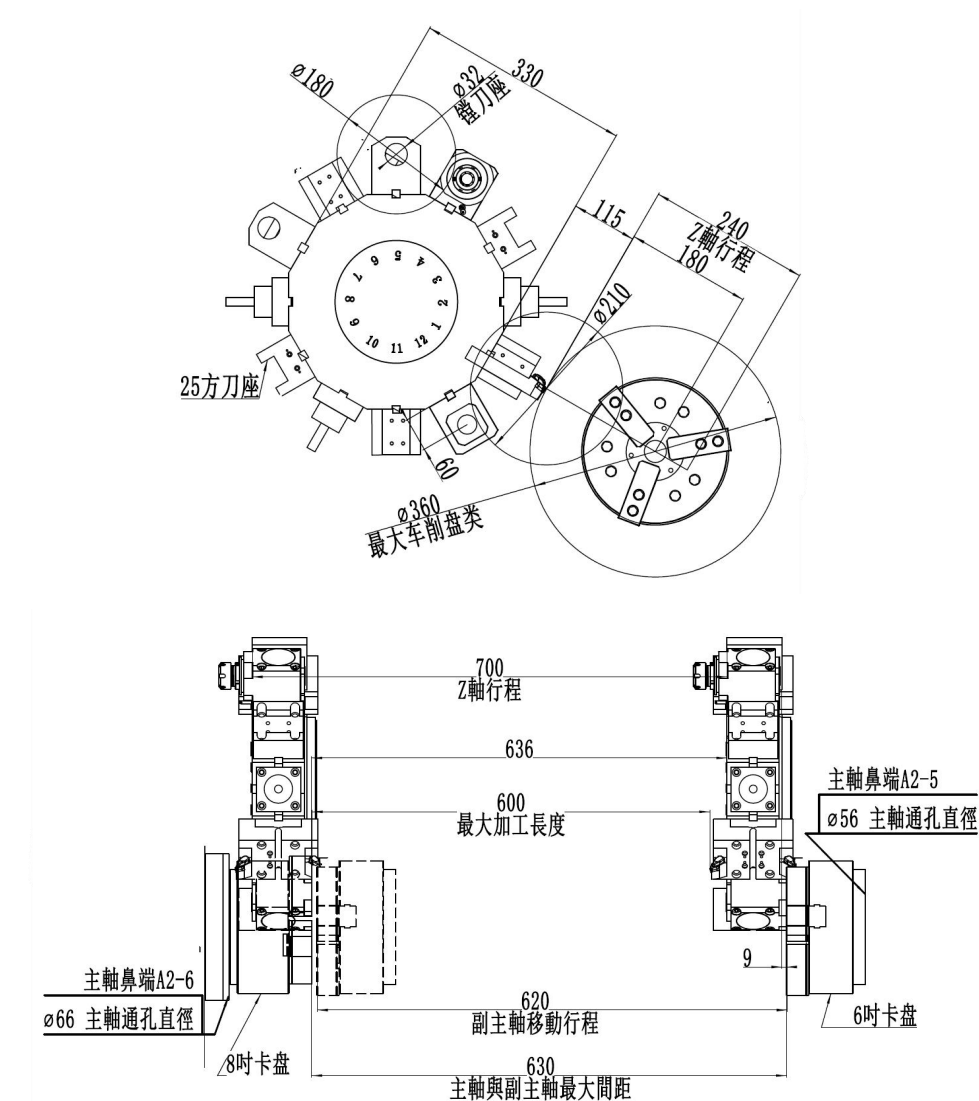
HL200-300Y (30DY)



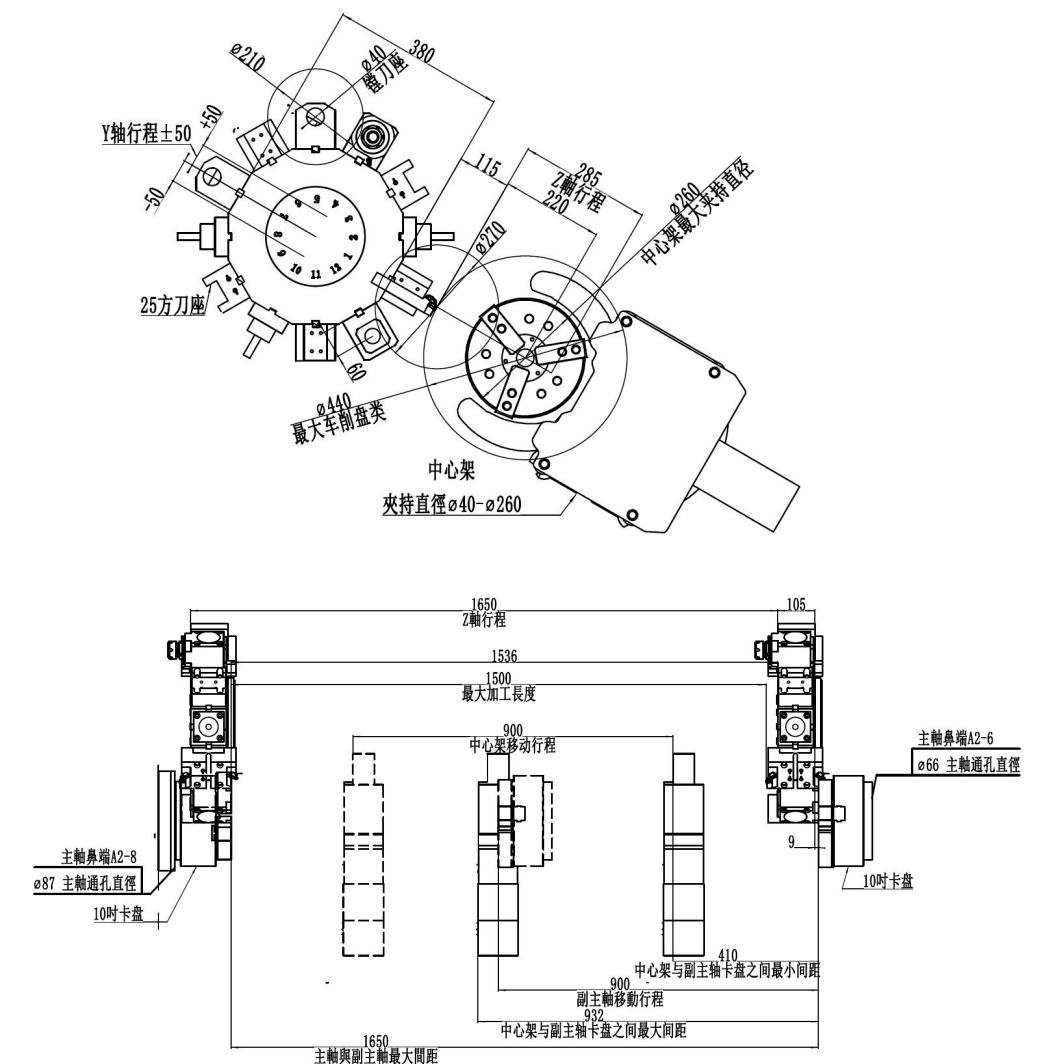
HL200-350Y (40DY)



HLHL200-600SM



HL250-1500SY

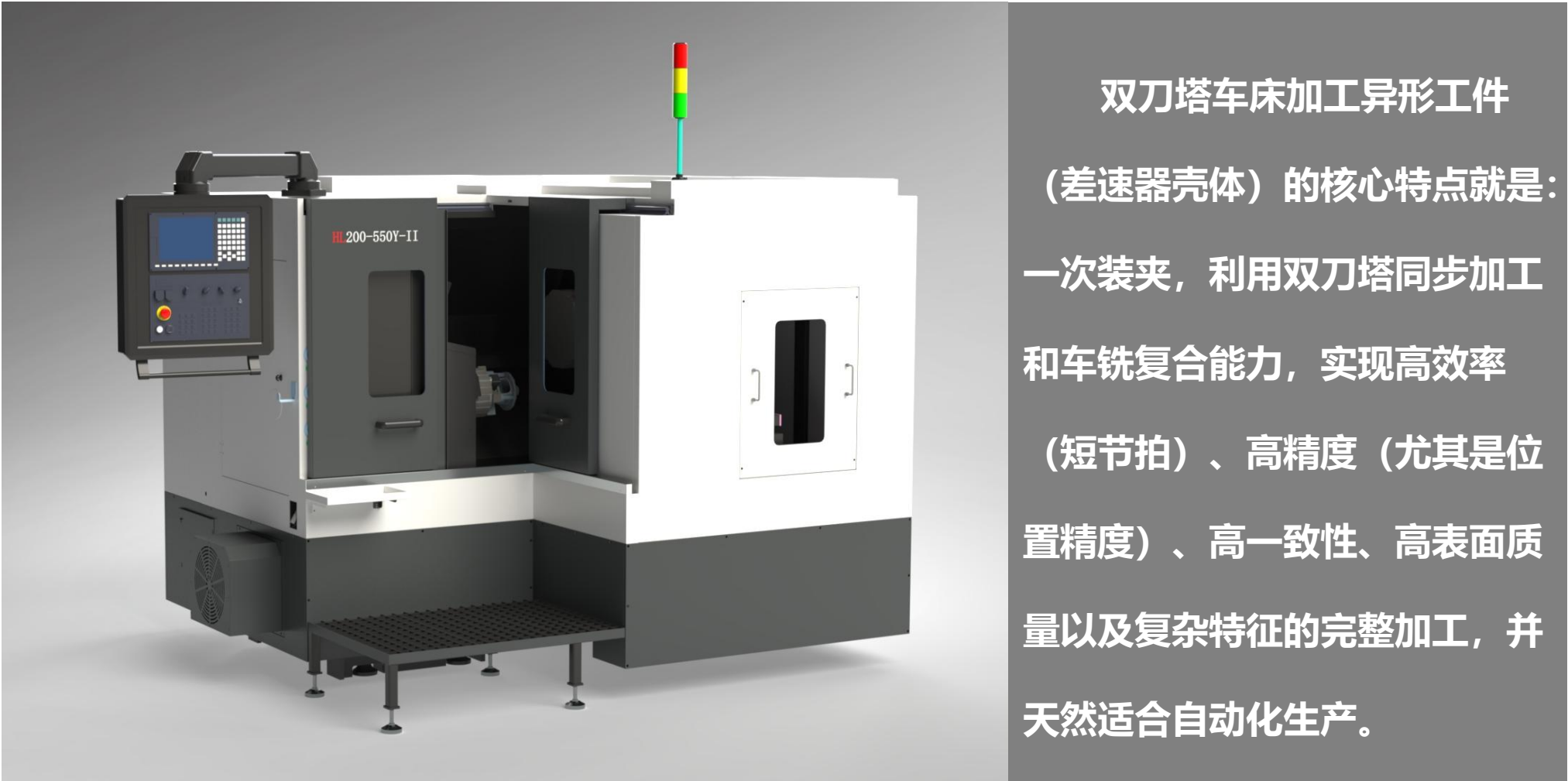




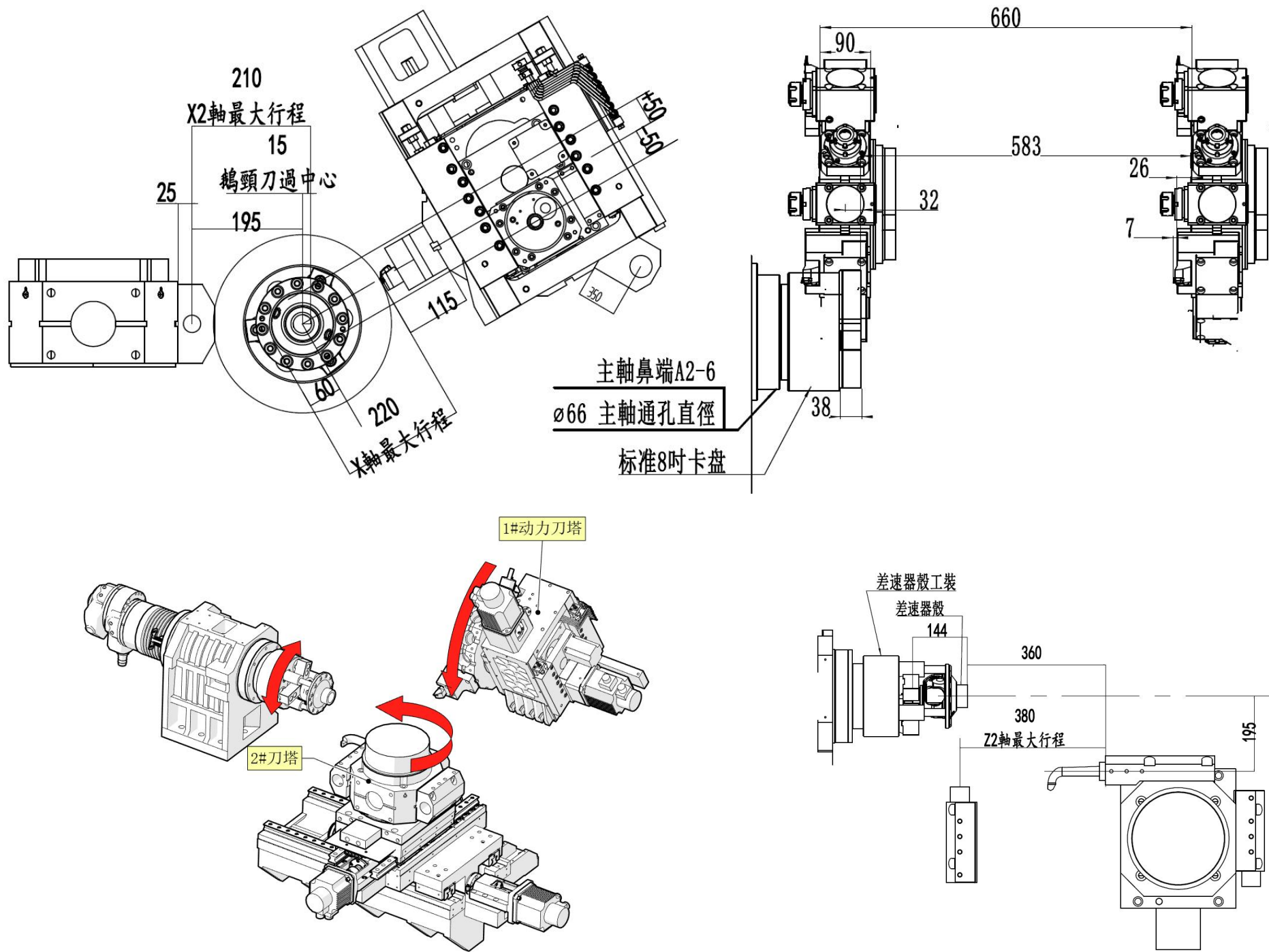
HL系列M/Y车系复合 参数配置

HL-M/Y Mechanical Specifications

项目 Task	名称 Name	单位Unit	HL200-550Y-II
加工范围Machining Range	床身最大回转直径 Max Swivel D	mm	Φ550
	最大加工直径 (轴/盘) Max D (shaft/disc)	mm	Φ310
	最大加工长度 Max L	mm	540
主轴Spindle	主轴类型 Spindle Type	机械/单元	A2-6
	主轴通孔直径 Spindle bore	mm	Φ66
	拉管通孔直径Diameter of pull tube through-hole	mm	Φ52
	主轴转速范围 Spindle speed	rpm	50-4200
	主轴电机功率 Spindle motor	kw	11
	液压卡盘 Hydraulic chuck	英寸	8
XYZ行程Moving distance	X轴工作行程 X-axis stroke	mm	220
	Y轴工作行程 Y-axis stroke	mm	±50
	Z轴工作行程 Z-axis stroke	mm	545
副刀塔工作行程	X2轴	mm	210
	Z2轴	mm	380
刀塔Lathe tool library	刀架类型 Tool library	T	直Y动力BMT45-12工位+四工位回转刀架
	动力刀塔电机扭矩	Nm	11
	车刀座尺寸 Tool size	mm	25X25
	镗刀座尺寸 boring tool	mm	Φ32
移动速度movement speed	X轴快移速度 X-axis velocity	m/min	20
	Y轴快移速度 Y-axis velocity	m/min	10
	Z轴快移速度 Z-axis velocity	m/min	20
	X2轴 X2-axis velocity	m/min	20
	Z2轴 Z2-axis velocity	m/min	20
	主轴电机功率 Spindle motor	kw	11
马达 Motor	X轴电机功率 X-axis motor	kw	3.1 (15 Nm)
	Y轴电机功率 Y-axis motor	kw	1.1 (5.39Nm)
	Z轴电机功率 Z-axis motor	kw	2.4 (11.5Nm)
	X2轴电机功率 X2-axis motor	kw	1.1 (5.39Nm)
	Z2轴电机功率 Z2-axis motor	kw	2.4 (11.5Nm)
	液压电机 Hydraulic motor	kw	1.5
	润滑电机 Lubricating motor	kw	0.02
	冷却电机 Cooling motor	kw	0.45
所需动力源	机床总电力 Total Electricity	Kva	24.0
精度Positioning /Repeatability accuracy	主轴鼻端 Front end face of spindle	mm	0.003
	X定位精度/重复定位精度	mm	0.005/0.003
	Y定位精度/重复定位精度	mm	0.005/0.003
	Z定位精度/重复定位精度	mm	0.005/0.003
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	3335×2290×2170
	床身角度 Lathe body angle	度°	30
	机床重量 Machine weight	KG	4800
标准配置 Standard configuration			
项目 Task	名称 Name	厂家Factory	规格型号 Specification and model
标准配置Standard Setup	控制系统 NC System		SYNTEC 22TB
	主轴轴承 Spindle bearing	CSC/SKF	P4 级 ;NN3024K/BIM120/NN3020K
	液压卡盘 Hydraulic chuck	KPT	8" 中空
	回转油缸 Chuck Rotary cylinder	KPT	TKS52
	X轴导轨 X-axis guide rail	HIWIN/银泰	Roller track滚柱35
	Y轴导轨 Y-axis guide rail	HIWIN/银泰	----
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Roller track滚柱35
	X2轴导轨 X2-axis guide rail		Roller track滚柱35
	Z2轴导轨 Z2-axis guide rail		Roller track滚柱35
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	3210-C3 研磨级
	Y轴滚珠丝杆 Y-axis ball screw	HIWIN/银泰	----
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	3210-C3 研磨级
	X2轴滚珠丝杆 X2-axis ball screw		3210-C3 研磨级
	Z2轴滚珠丝杆 Z2-axis ball screw	HIWIN/银泰	3210-C3 研磨级



HL200-550Y-II 干涉图

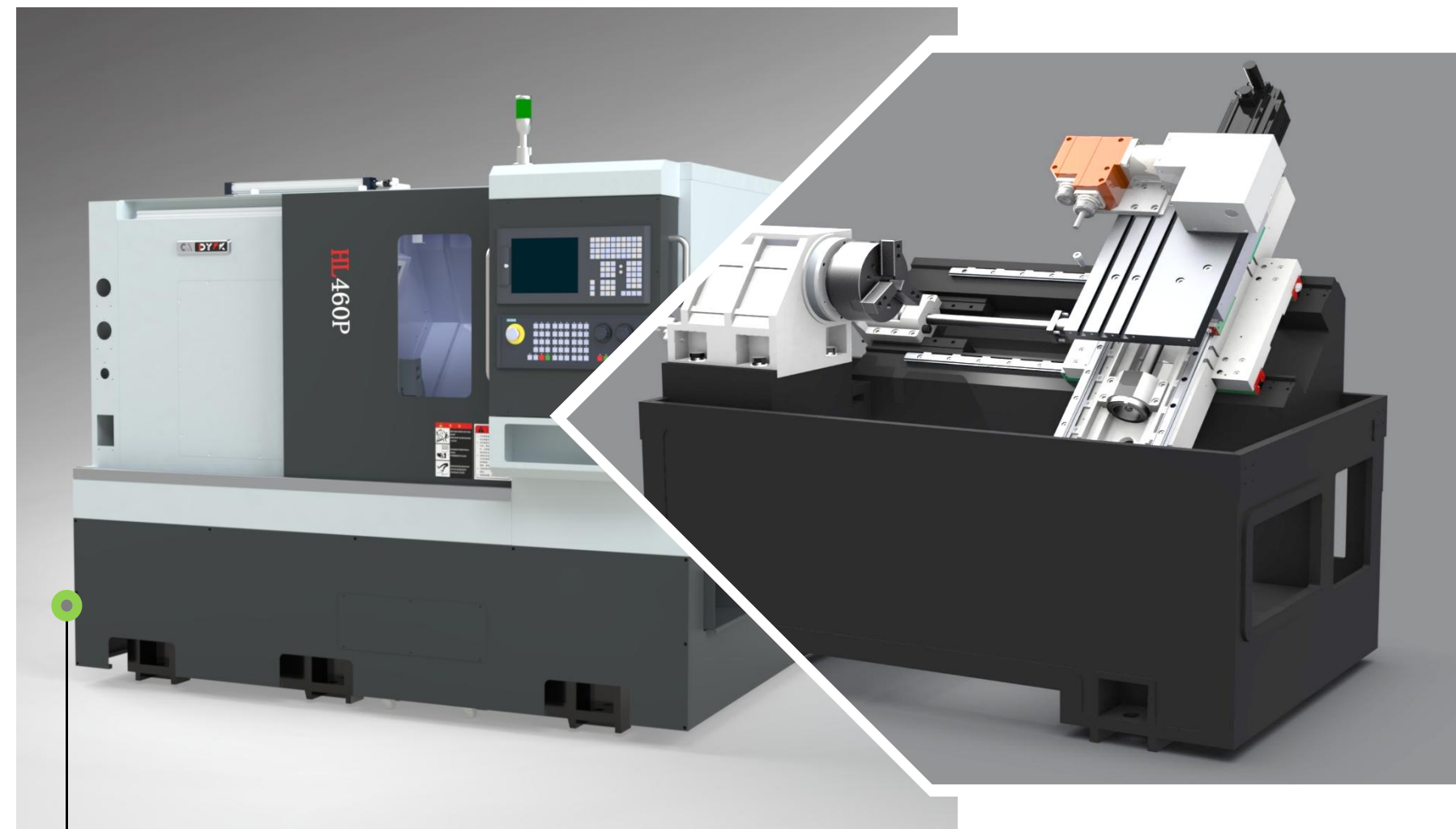




HL-P系列类别与型号 Category and Model

机床外观简洁、大方、精致

The appearance of the machine tool is simple, generous, and exquisite



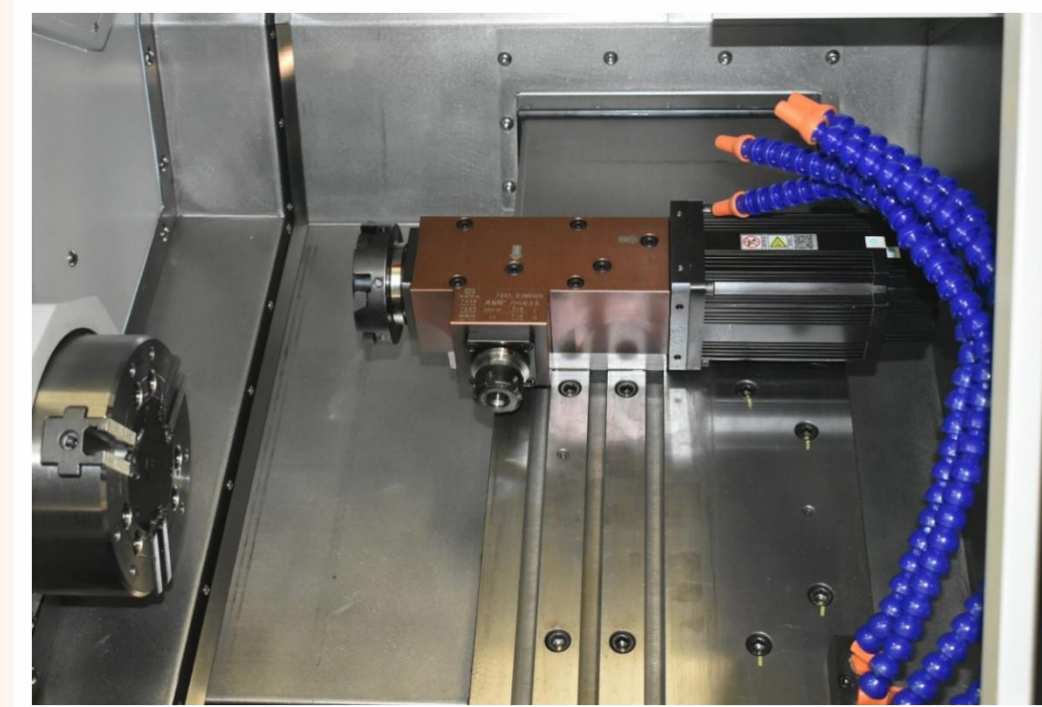
斜床身一体化设计，具有较大的承载截面，可保证高精度切削加工。床身高刚性、低重心、主轴距离紧凑的优点。

The integrated design of the inclined bed body has a large load-bearing cross-section, ensuring high-precision cutting processing. The advantages of bed height rigidity, low center of gravity, and compact main axis distance.

排刀座直线排刀设计，换刀速度快，节省加工时间，可配备独立动力刀座，减少维护成本。
The straight line cutting design of the cutting seat allows for fast tool changing and saves processing time. It can be equipped with an independent power cutting seat to reduce maintenance costs.

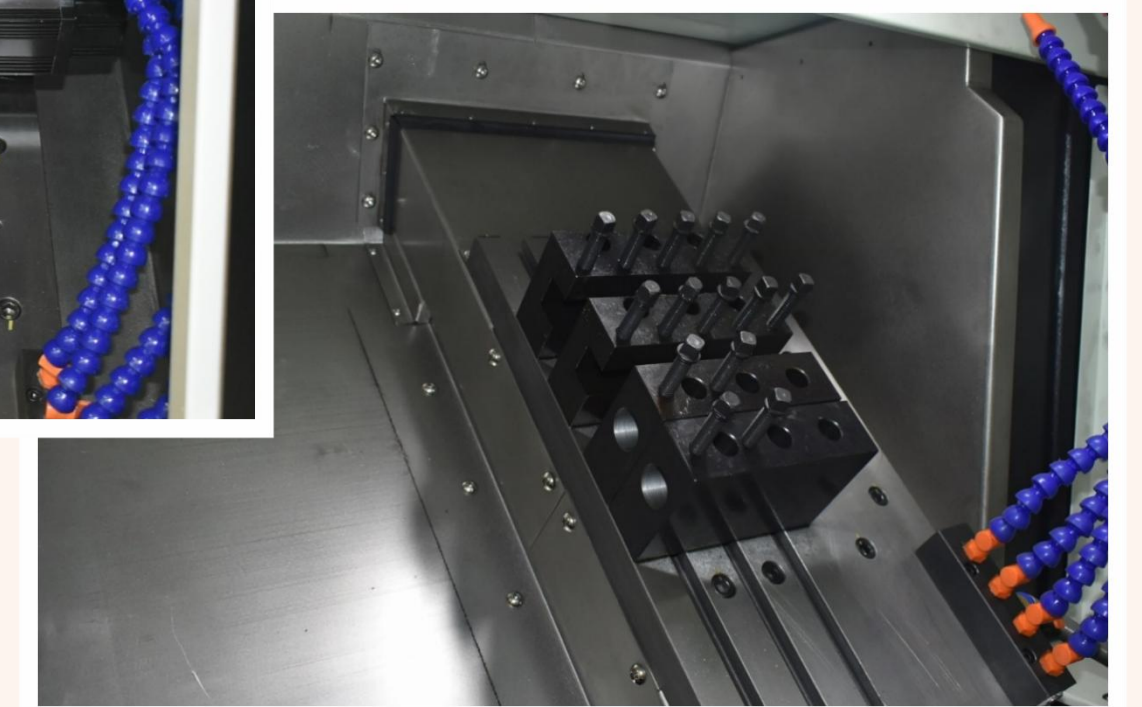
自制机械主轴，刚性更高，主轴箱采用散热筋设计，热变形小，主轴精度更高。
Self made mechanical spindle with higher rigidity, spindle box designed with heat dissipation ribs, small thermal deformation, and higher spindle accuracy.

加工类型：圆柱面、圆锥面、圆弧面、端面、切槽、内外螺纹倒角等工序。
Processing types: cylindrical surface, conical surface, circular arc surface, end face, groove cutting, internal and external thread chamfering and other processes.



排刀可以安装各种复合刀具

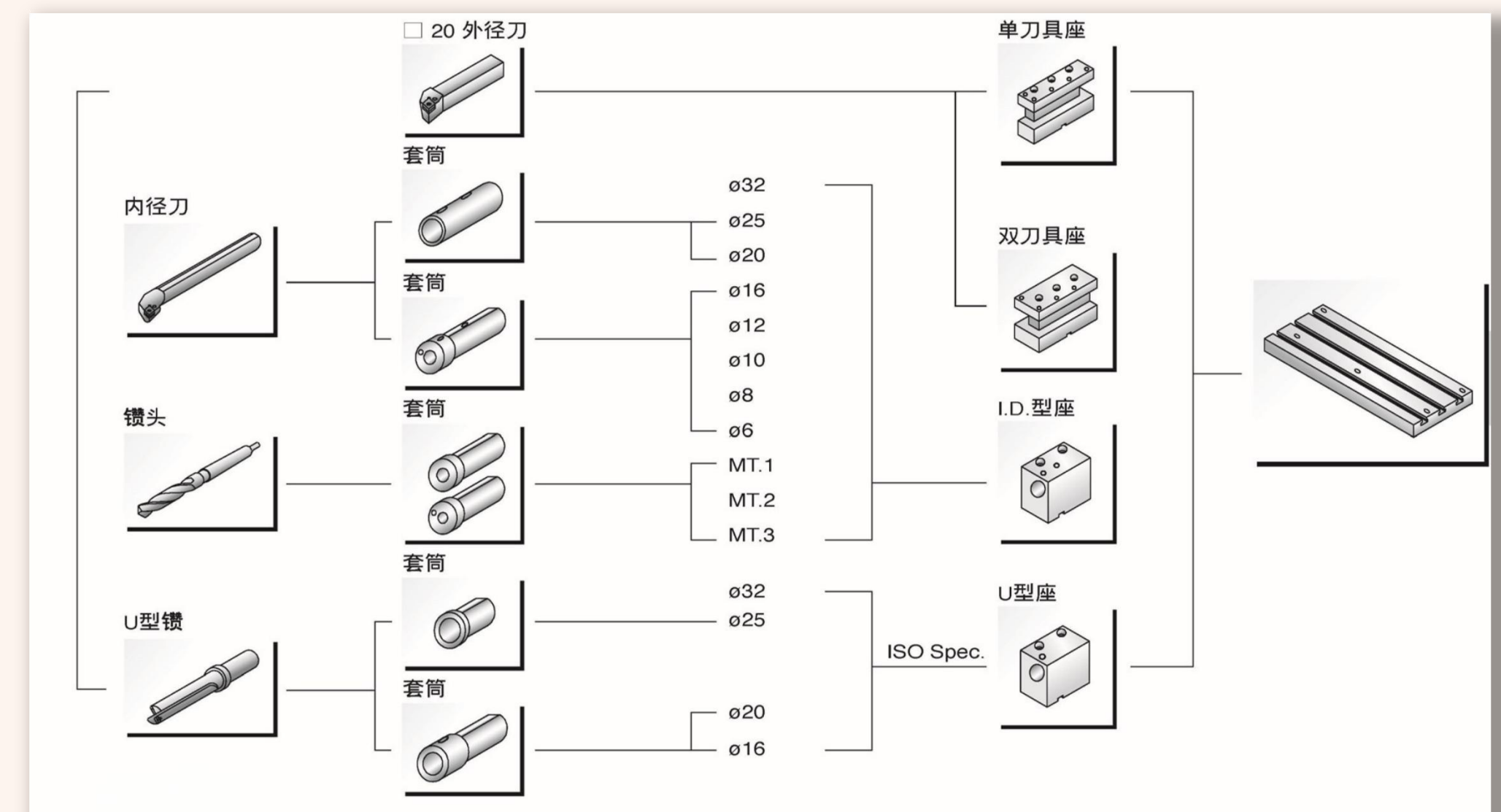
Row knives can be installed with various composite cutting tools



排刀可以配置各种动力刀座

The blade can be configured with various power blade holders

HL-P系列刀具系统图 Tool System Diagram





HL-P系列排刀机参数配置

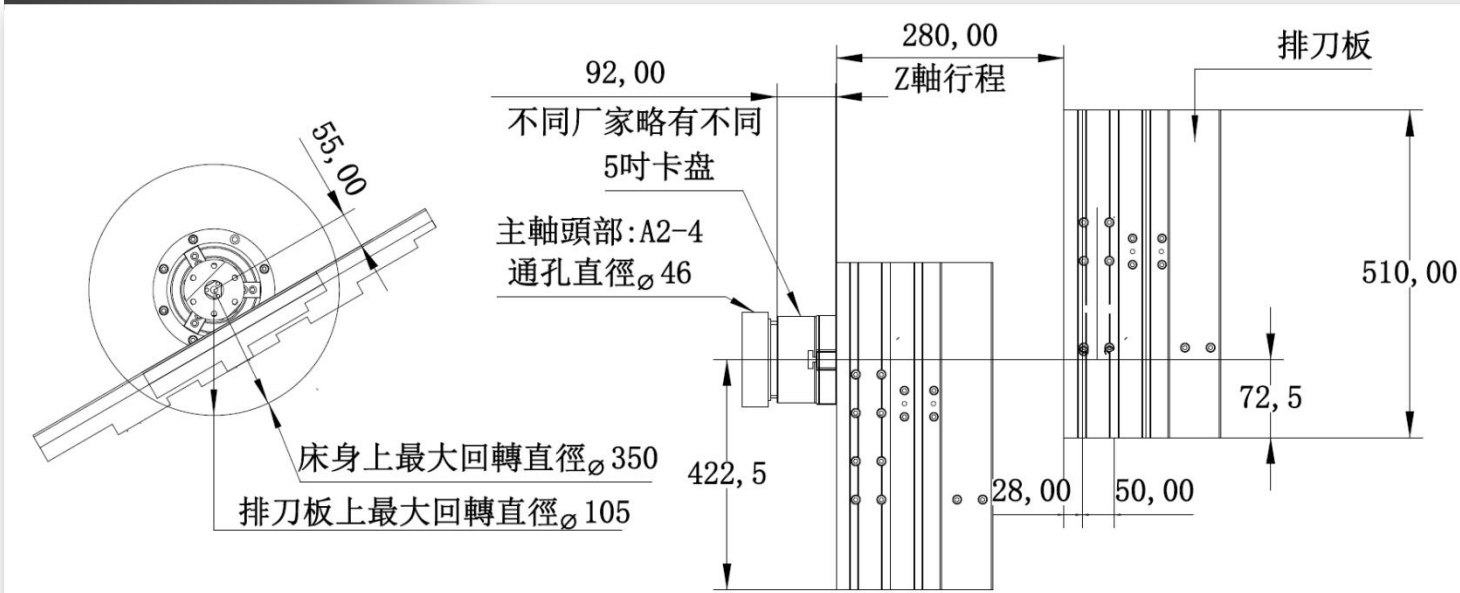
P Mechanical Specifications

项目 Task	名称 Name	单位 Unit	HL100P	HL200P		HL300P	HL360P	HL460P	HL560P	HL630P
加工范围 Machining Range	床身最大回转直径 Max Swivel D	mm	Φ350	Φ460		Φ460	Φ460	Φ460	Φ600	Φ550
	最大加工直径 (轴/盘) Max D (shaft/disc)	mm	Φ100/200	Φ120/200		Φ145/300	Φ120/360	Φ175/450	Φ240/560	Φ210/540
	最大加工长度 Max L	mm	260	400		310	400	410	565	650
主轴 Spindle	主轴类型 Spindle Type	机械/单元	A2-4	A2-5		A2-5	A2-5	A2-6	A2-6 / A2-8	A2-11
	主轴通孔直径 Spindle bore	mm	Φ46	Φ56		Φ56	Φ56	Φ66	Φ66/87	Φ108
	拉管通孔直径 Diameter of pull tube through-hole	mm	Φ36	Φ46		Φ45	Φ45	Φ52	Φ52/75	Φ90
	主轴转速范围 Spindle speed	rpm	50-4000	50-4000		50-4000	50-4000	50-4000	50-4000	0-3000
	液压卡盘 Hydraulic chuck	寸	5	6		6	6	8	8	15/18
XZ行程 Moving distance	X轴工作行程 X-axis stroke	mm	350	300		400	350	400	400	315
	Z轴工作行程 Z-axis stroke	mm	280	420		350	420	440	600	750
刀塔 Lathe tool library	刀架类型 Tool library	T	排刀	排刀		排刀	排刀	排刀	排刀	排刀
	车刀座尺寸 Tool size	mm	20*20mm	25*25mm		25*25mm	25*25mm	25*25mm	25*25mm	25*25mm
	镗刀座尺寸 boring tool	mm	Φ25 mm	Φ32 mm		Φ32mm	Φ32mm	Φ32mm	Φ32mm	Φ40 mm
尾座 Tailstock	尾座套筒 Tailstock sleeve		--	--		--	--	--	--	--
	尾座行程 Tail seat travel	mm	--	--		--	--	--	--	--
	尾座套筒行程 Sleeve travel	mm	--	--		--	--	--	--	--
移动速度 movement speed	X轴快移速度 X-axis velocity	m/min	30	30		30	30	24	24	15
	Z轴快移速度 Z-axis velocity	m/min	30	30		30	30	24	24	15
马达 Motor	主轴电机功率 Spindle motor	kw	5.5	5.5		5.5/7.5	5.5/7.5	7.5/11	11	15/18
	X轴电机功率 X-axis motor	kw	1.5 (6Nm)	1.5 (6Nm)		1.5 (6Nm)	1.5 (6Nm)	2.5 (10Nm)	2.5 (10Nm)	3.9 (15Nm)
	Z轴电机功率 Z-axis motor	kw	1.5 (6Nm)	1.5 (6Nm)		2.5 (10Nm)	1.5 (6Nm)	2.5 (10Nm)	2.5 (10Nm)	3.9 (15Nm)
	液压电机 Hydraulic motor	kw	1.5	1.5		1.5	1.5	1.5	1.5	1.5
	润滑电机 Lubricating motor	kw	0.02	0.02		0.02	0.02	0.02	0.02	0.02
	冷却电机 Cooling motor	kw	0.18	0.18		0.18	0.18	0.18	0.18	0.18
所需动力源	机床总电力 Total Electricity	Kva	11.0	11.0		12.0	14.0	17.0	17.0	28.0
精度 Positioning / Repeatability accuracy	主轴鼻端 Front end face of spindle	mm	0.003	0.003		0.003	0.003	0.004	0.005	0.006
	X定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003		0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003
	Z定位精度/重复定位精度	mm	0.005/0.003	0.005/0.003		0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003	0.005/0.003
机械参数 Mechanical parameters	长X宽X高L*W*H	mm	1780X1520X1900	2020X1550X1760		2090X1630X1830	2020X1550X1760	2350X1670X1780	2350X1670X1780	3750X2290X1860
	床身角度 Lathe body angle	度°	30°	45°		50°	45°	50°	50°	30°
	机床重量 Machine weight	KG	1800	2800		2900	2800	3800	4200	5800
标准配置 Standard configuration										
项目 Task	名称 Name	厂家 Factory	规格型号 Specification and mode							
标准配置 Standard Setup	控制系统 NC System		GSK 980TB3i	GSK 980TB3i		GSK 980TC3	GSK 980TB3i	GSK 980TC3	GSK 988TA	GSK 988TA
	主轴轴承 Spindle bearing	CSC/SKF	7016AC/7014AC	7018AC / 7016AC		7018AC / 7016AC	7018AC / 7016AC	NN3024K/BTM120/ NN3020K	NN3024K/BTM120/ NN3020K (A2-6)	NN3032K+BMT160+NN 3030K
	液压卡盘 Hydraulic chuck	KPT	5寸	6寸		6寸	6寸	8寸	8寸/10寸	15寸/18寸
	回转油缸 Chuck Rotary cylinder	KPT	TK536	TK646		TK646	TK646	TK852	TK852	RH150/RH200
	X轴导轨 X-axis guide rail	HIWIN/银泰	Ball bearing滚珠25	Ball bearing滚珠30		Ball bearing滚珠30	Roller track滚柱30	Roller track滚柱30	Roller track滚柱35	Roller track滚柱45
	Z轴导轨 Z-axis guide rail	HIWIN/银泰	Ball bearing滚珠30			Ball bearing滚珠35	Roller track滚柱30	Roller track滚柱35	Roller track滚柱45	Roller track滚柱55
	X轴滚珠丝杆 X-axis ball screw	HIWIN/银泰	2510	3210		3210	3210	3210	3210	4010
	Z轴滚珠丝杆 Z-axis ball screw	HIWIN/银泰	3210	3210		3210	3210	3210	4010	5010

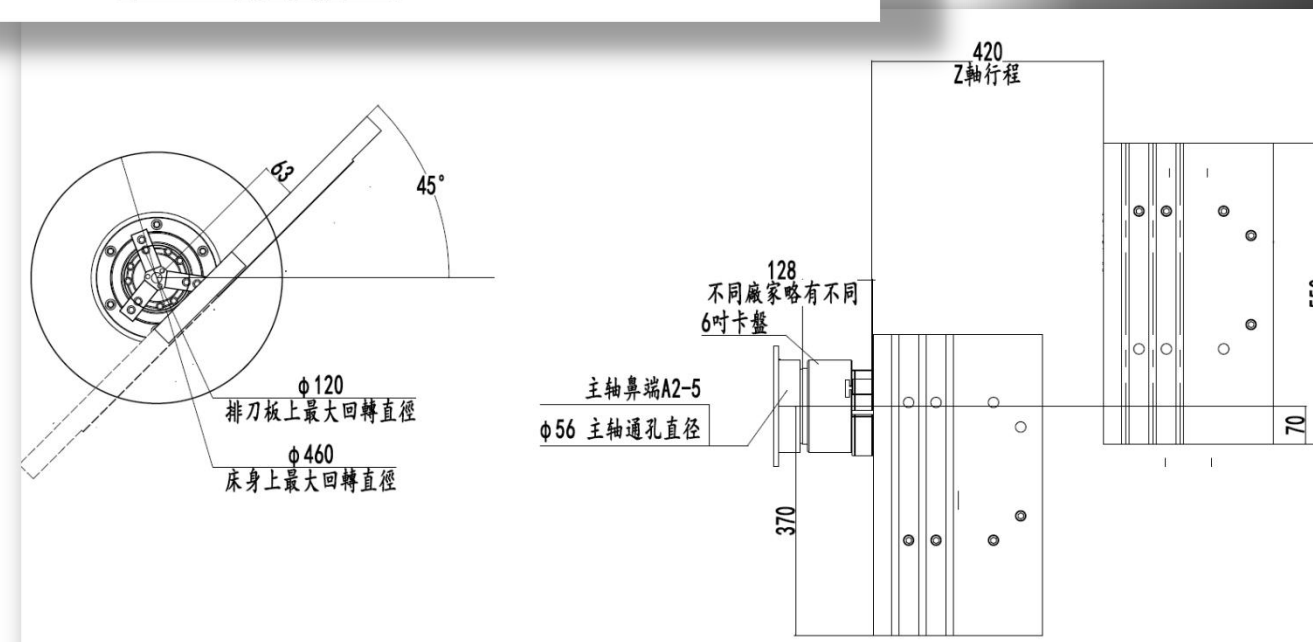


HL-P系列排刀机能力与干涉 Ability and Intervention

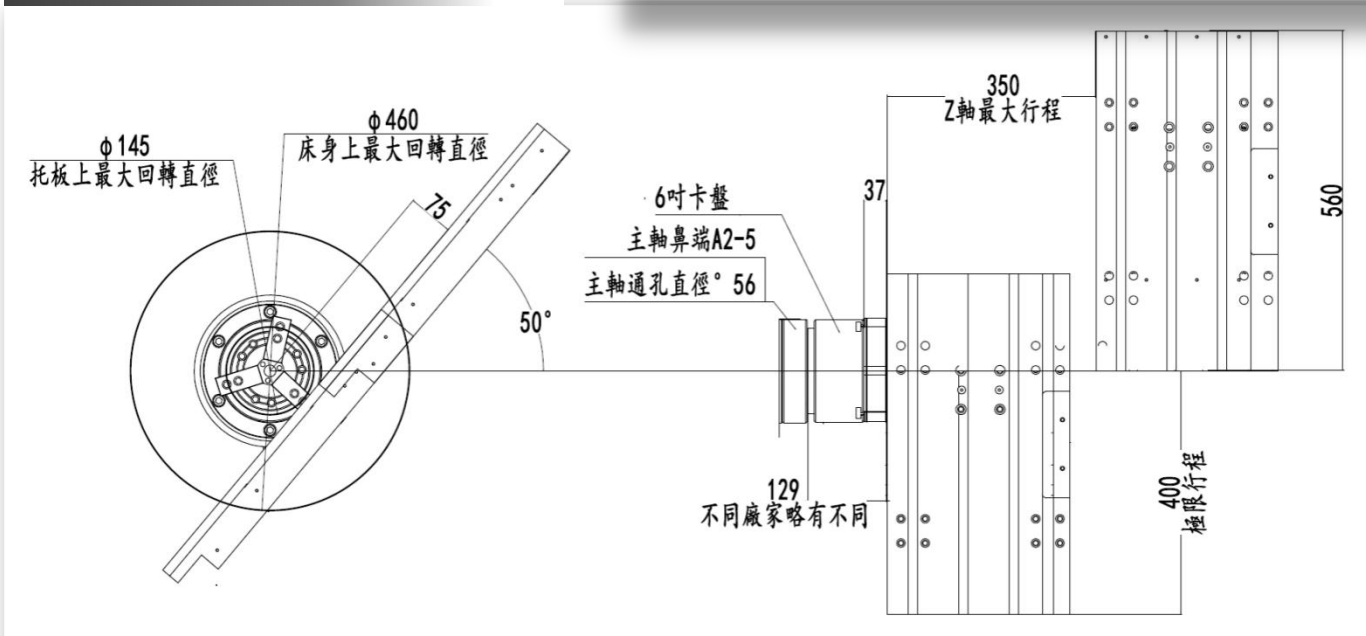
HL100P



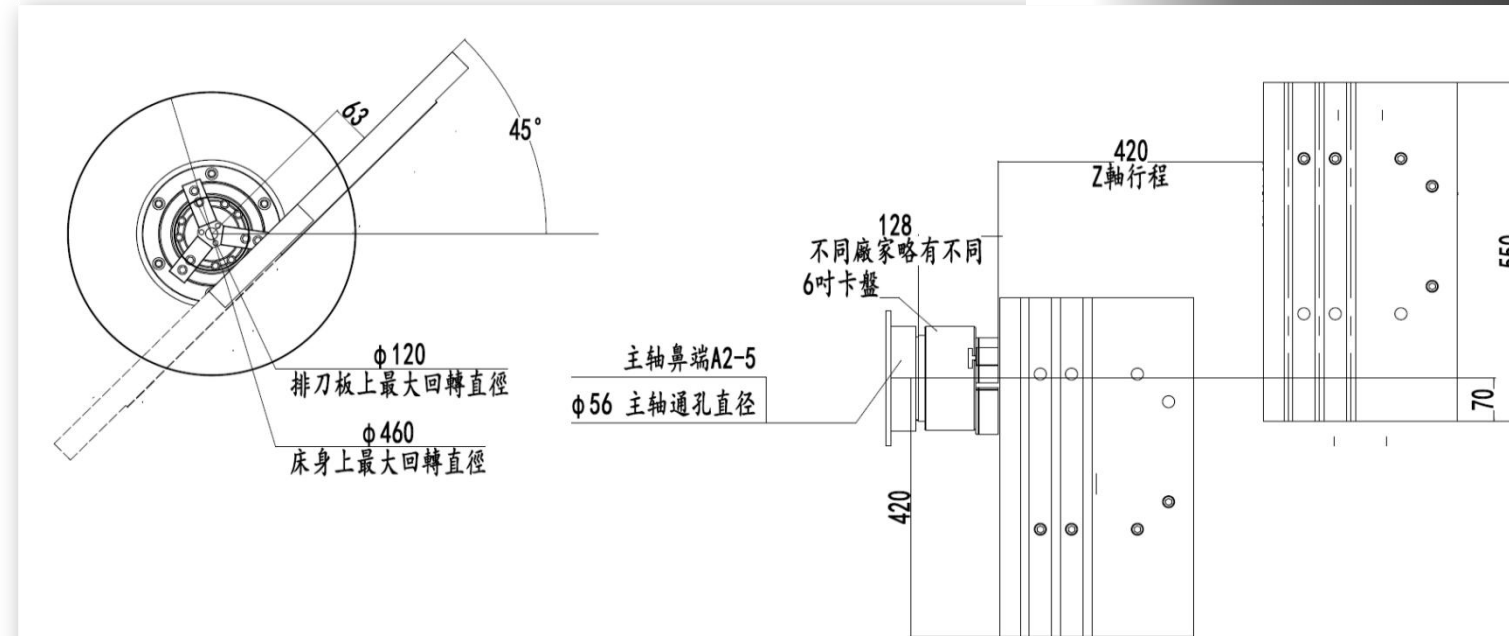
HL200P



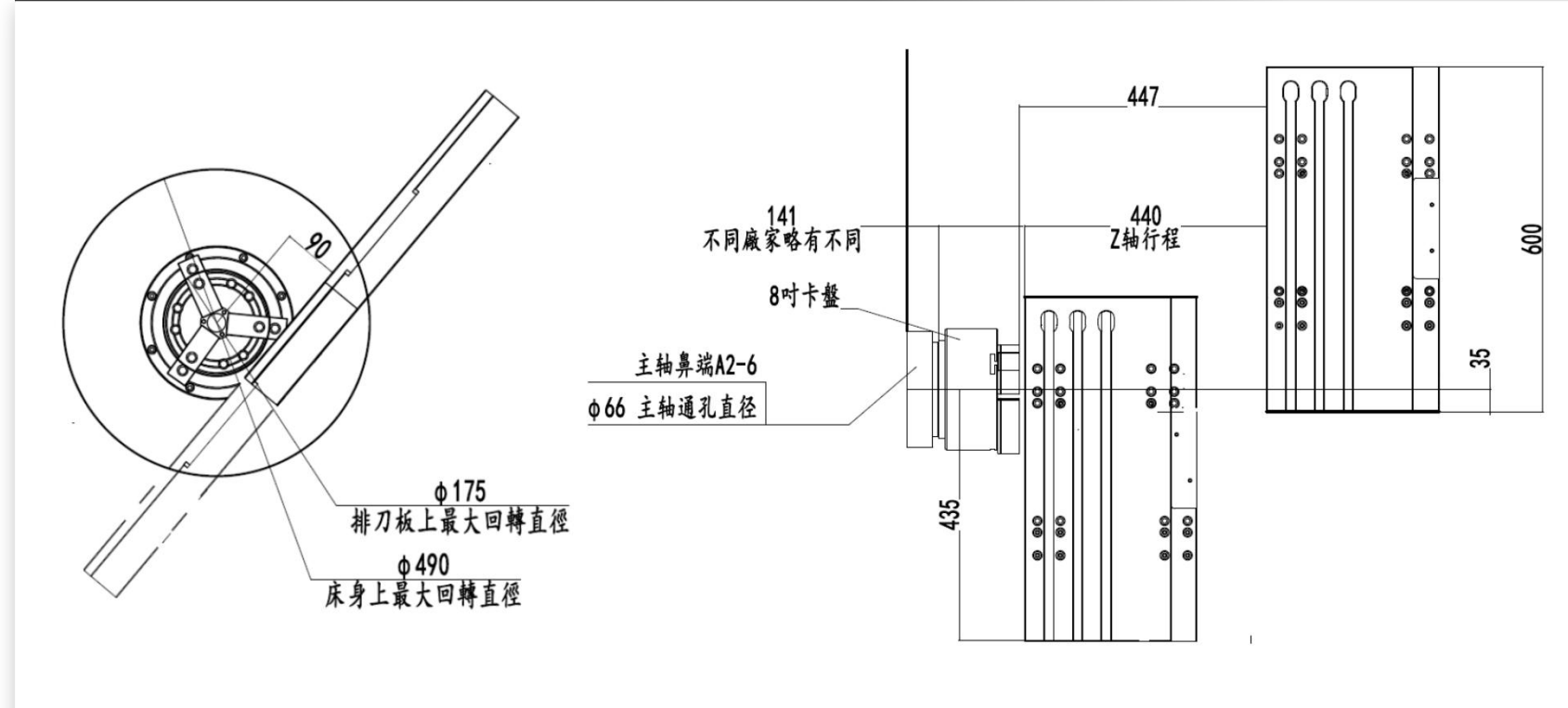
HL300P



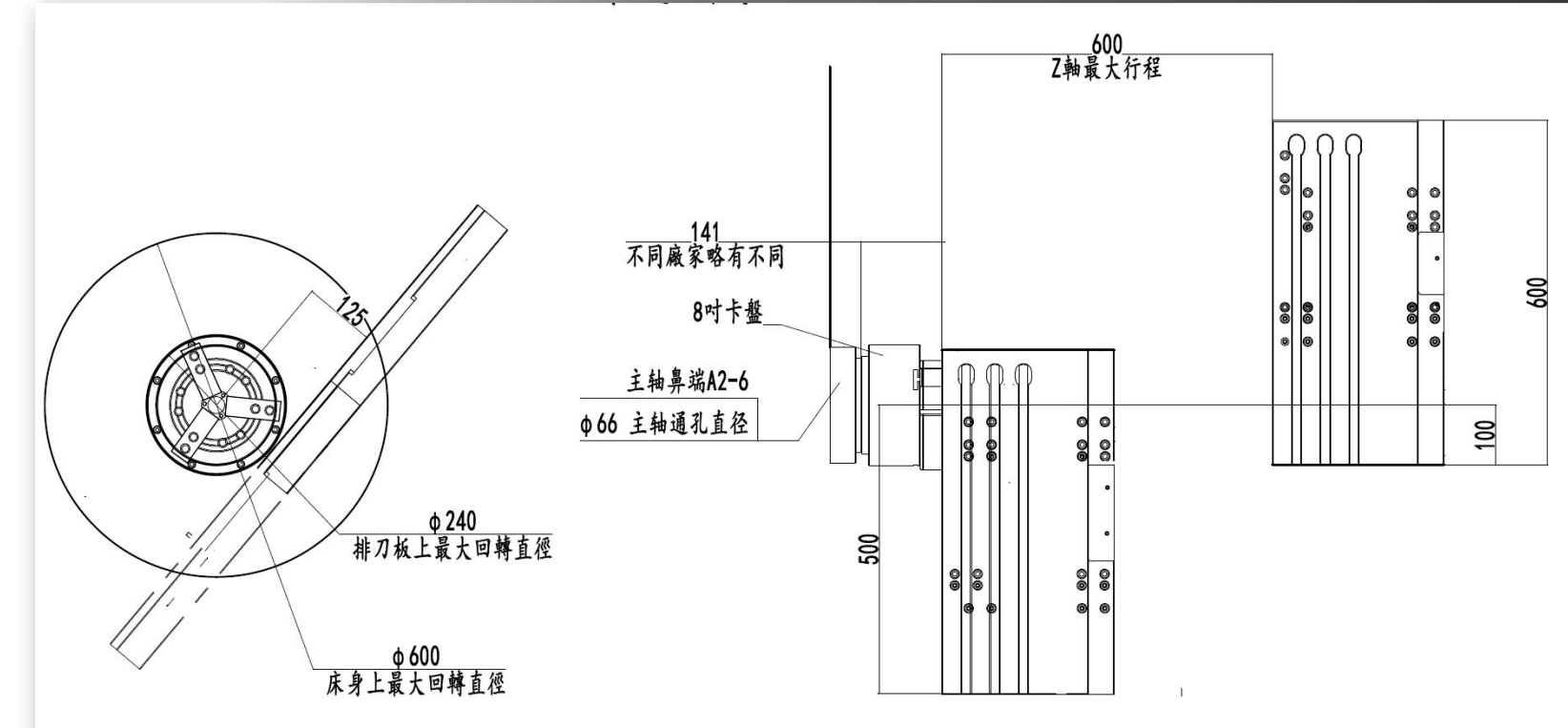
HL360P



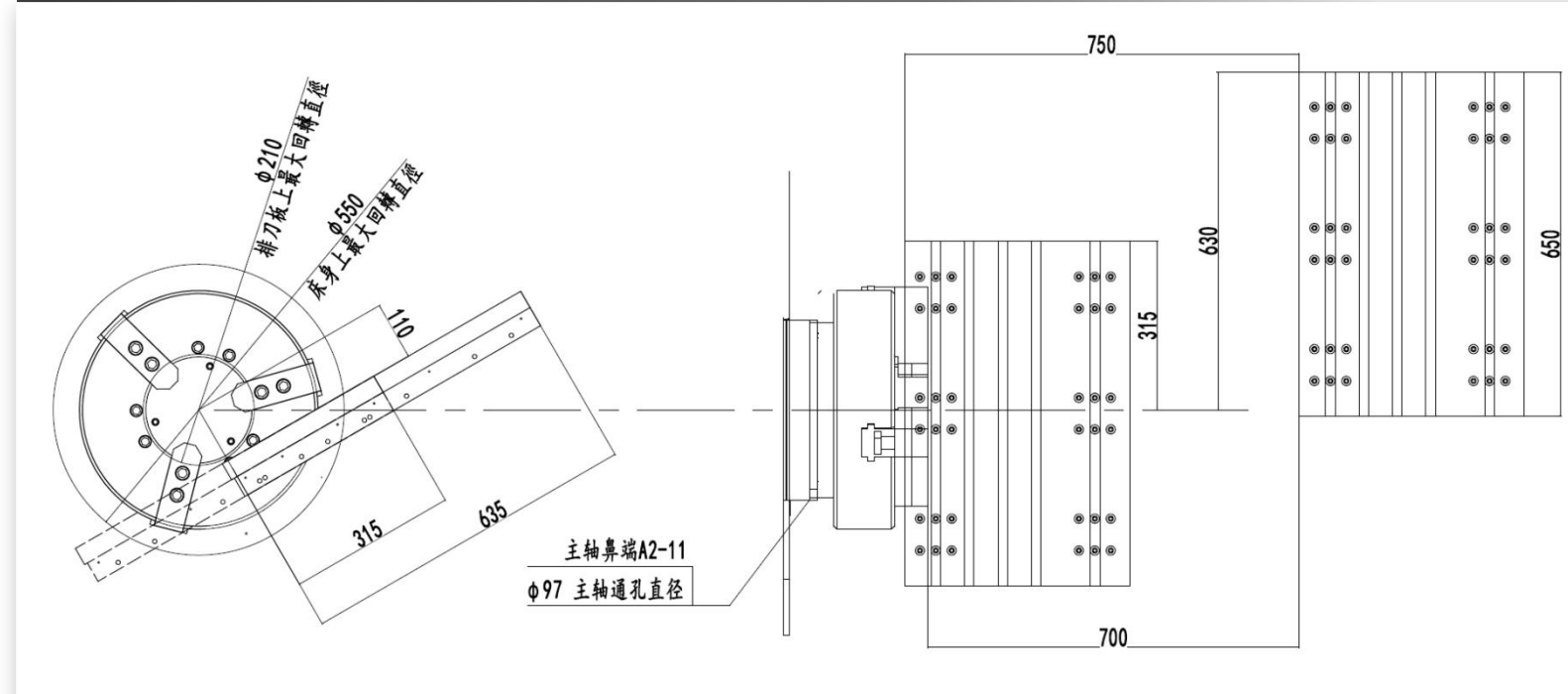
HL460P



HL560P



HL630P





精密主轴 Precision spindle

主轴 CNC Lathe Spindle

本设备的主轴具有优秀的轴功率范围，并采用与高精度数控车床同一的主轴构造，可以保证热变位的最小化。这样的主轴设计保证了连续加工中的稳定加工精度。特别是通过提升轴承外轮廓组装部位的加工与组装精度，保证了主轴单元加工精度的长时间维持。另外，配置AC主轴电机可以发挥出稳定的加工能力。

The spindle of this machine is designed with an outstanding power range and incorporates the same spindle construction as high-precision CNC lathes, effectively minimizing heat-induced positional changes. This meticulously engineered spindle design ensures stable machining precision during continuous operations. Notably, by improving the machining and assembly accuracy of the outer profile of the bearings, it guarantees long-term maintenance of spindle unit performance. Additionally, equipped with AC spindle motors, this configuration delivers reliable and consistent machining capabilities, further enhancing the machine's overall stability and productivity.

C轴控制 C-axis control

配置车铣刀具时，可以实现对主轴的0.001°控制功能，并通过车削与铣削的完美配合，大幅提升设备的加工能力。

When configuring turning and milling tools, the spindle can achieve 0.001° control functionality, and by perfectly integrating turning and milling processes, it significantly enhances the machine's machining capabilities.

副主轴 Secondary spindle

HL系列配置了带有C轴的副主轴，可以完成低速高扭矩的重切削，也可以进行高度的切削加工。其设计可以实现连续长时间加工的热变位最小化。

The HL series incorporates a sub-main spindle with a C-axis, enabling heavy cutting tasks at low speeds but high torque. Additionally, it supports highly accurate machining processes. The machine's design ensures minimal thermal displacement during prolonged continuous operation.

简便的工件协调设定 Simple fixture setup

在工件完成外径加工后，副主轴与主轴同时旋转，在接到工件的同时，对工件的背面进行加工（基本刀座），这样的配置实现了1台设备的2倍生产性。

After finishing the outer diameter machining of the workpiece, both the sub-main spindle and main spindle begin rotating together. As the workpiece is received, the system immediately processes its backside using standard刀座 (tooling). This setup doubles the productivity of a single machine.

卡盘尺寸：8"
主轴电机：11/7.5 kW
C轴控制：0.001°
棒料加工径：φ45

Chuck size: 8"
Spindle motor power: 11/7.5 kW
C-axis control precision: 0.001°
Bar material diameter for machining: φ45 mm

尾座 Lathe tailstock

大型(MT#5)尾座在强力切削时可以维持卓越的加工精度，φ100的套筒轴(Quill)的移送可通过脚踏器或者程序进行操作，本体与鞍座相连，可通过JOG按钮或者MPG进行手动的移动。

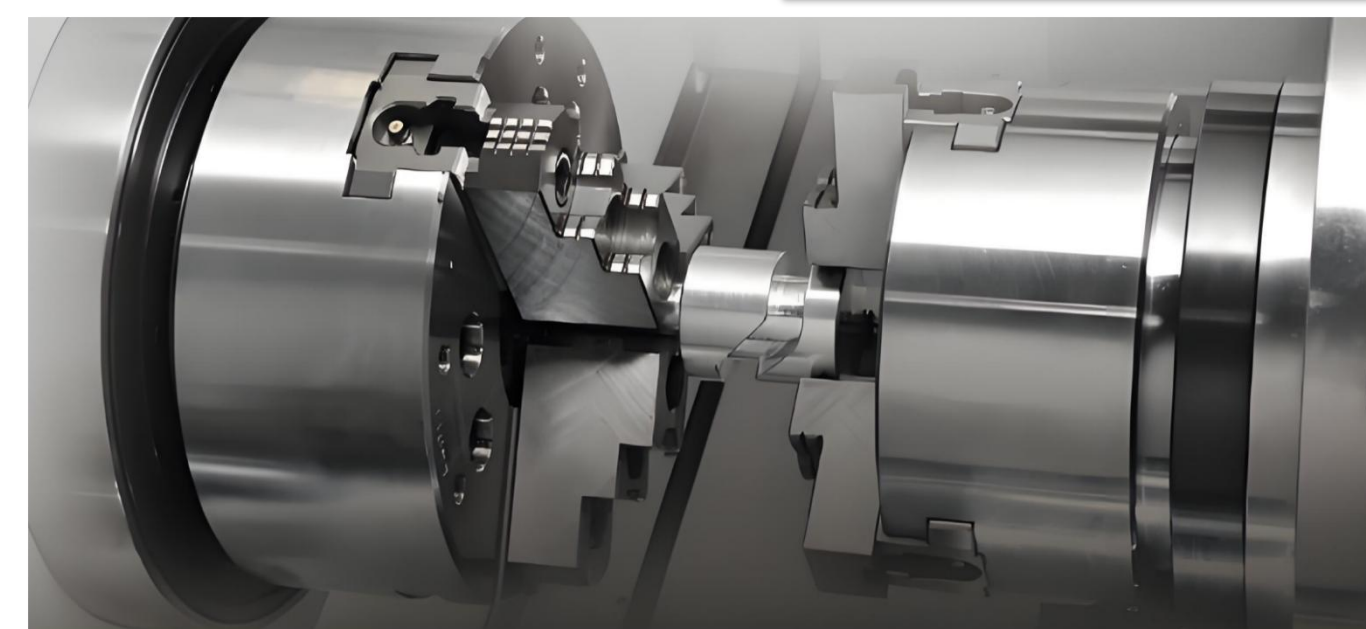
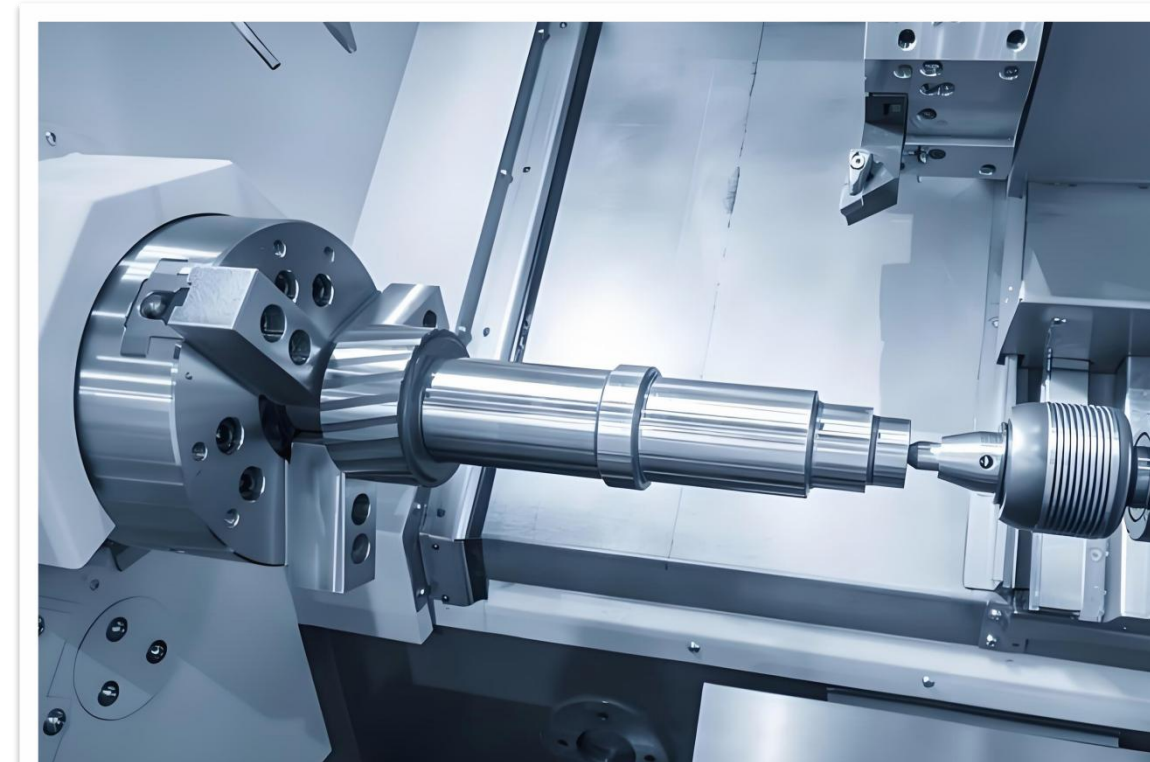
The large (MT#5) tailstock maintains outstanding machining accuracy during heavy cutting. The φ100 quill axis can be moved via foot pedal or program control. The body is connected to the saddle and can be manually operated using JOG buttons or MPG controls.

套筒轴锥度：MT #5
内置式尾座：MT #4
尾座功率：740 kgf
套筒轴径：φ100

Sleeve spindle taper: MT #5
Integral tailstock: MT #4
Tailstock power: 740 kgf
Sleeve spindle diameter: φ100



精密制造
precision manufacturing



主轴介绍

旋转精度：主轴旋转时在影响加工精度的方向上出现的径向和轴向跳动，冠宏大元重科HL\P系列自研主轴鼻端跳动0.002mm；

刚度：动、静刚度，材料 加工工艺 装配工艺 检测办法等周全严谨。

速度适应性：最高转速和转速范围，合理科学设计结构和润滑，以及散热条件，提高实用性及设备的适应能力。

Rotational precision: radial and axial runout of the spindle during rotation in directions affecting machining accuracy, with HL\P series self-developed spindle nose wobble at 0.002mm.

Rigidity: dynamic and static rigidity, including material selection, machining process, assembly process, and thorough testing methods for comprehensive reliability.

Speed adaptability: maximum spindle speed and speed range, with scientifically designed structure and lubrication, as well as efficient cooling systems to enhance practicality and equipment versatility.

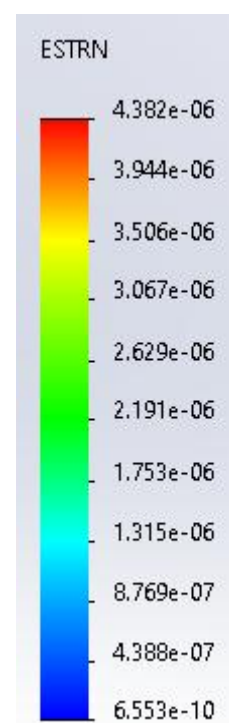
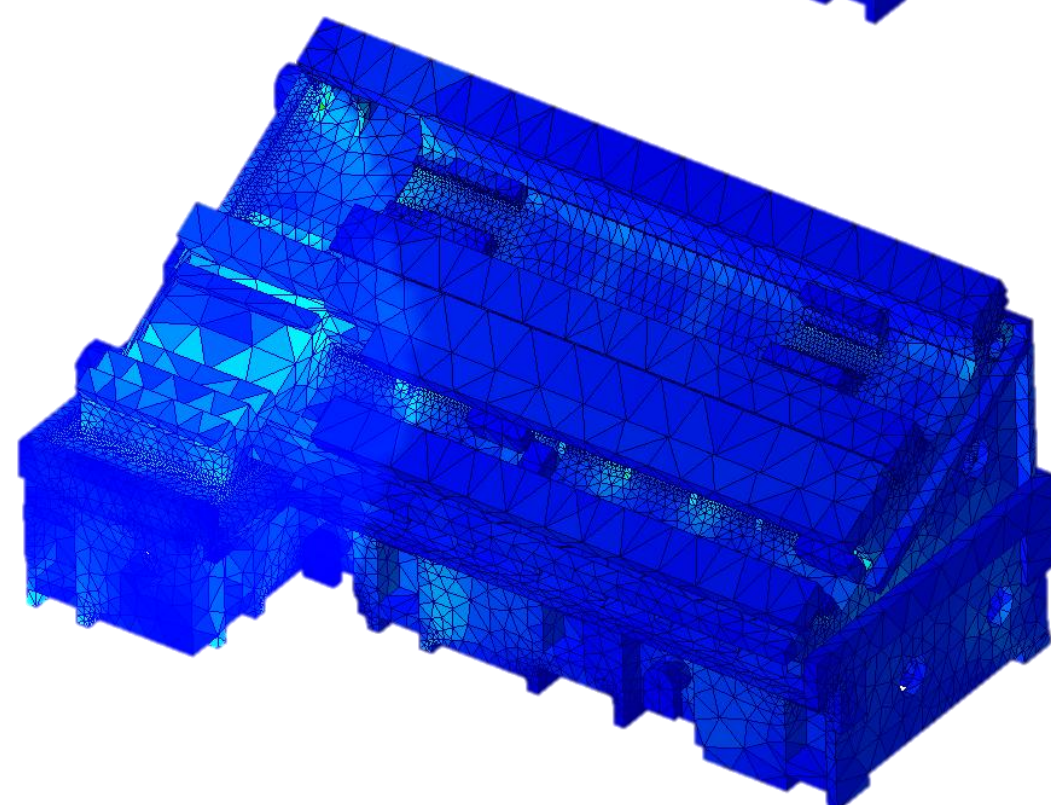
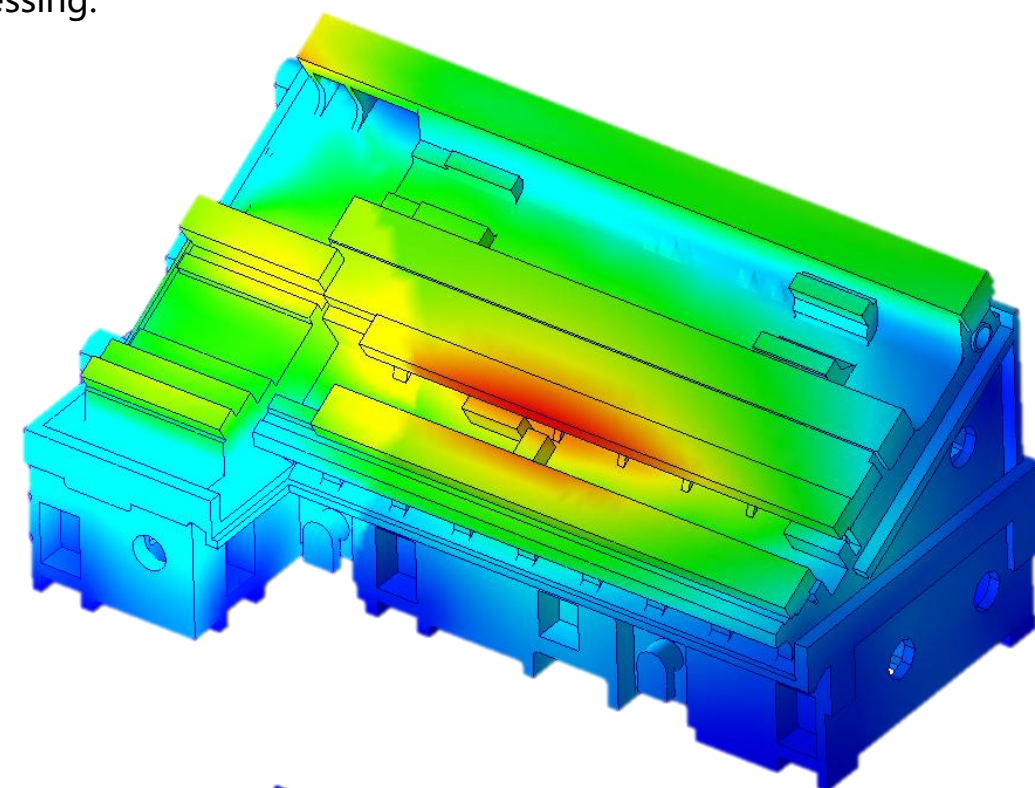
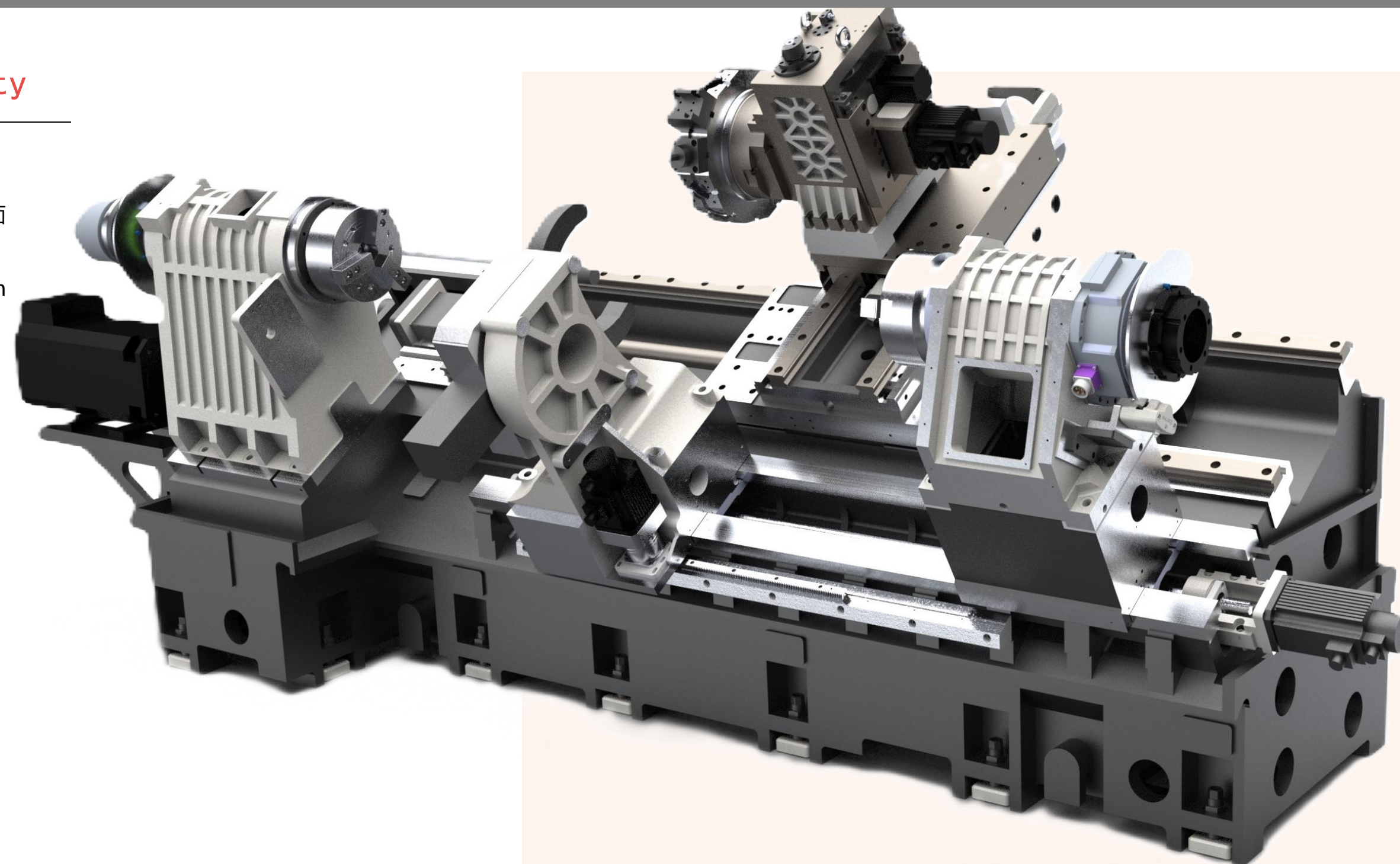


床身结构 Bed structure

刚性的结构 structure of bed rigidity

HL系列数控车，斜床身受力时应力分散更均匀，抗弯曲和抗扭能力提升；切削力方向与工件重力方向一致，减少振动，提升加工稳定性；缩小机床平面占地，便于布局多工位刀塔或动力刀塔，支持快速换刀和连续加工。

The HL series CNC lathe has a more uniform stress distribution when the inclined bed body is subjected to stress, and its ability to resist bending and torsion is improved; The direction of cutting force is consistent with the direction of workpiece gravity, reducing vibration and improving machining stability; Reduce the floor space of the machine tool to facilitate the layout of multi station tool towers or power tool towers, and support fast tool changing and continuous processing.

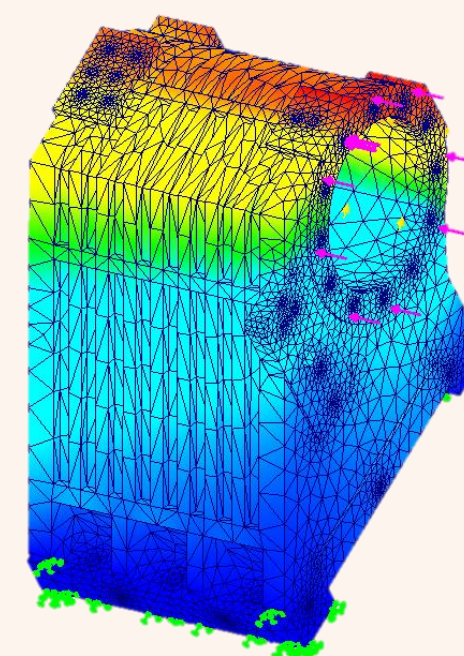


主轴箱体结构 spindle housing structure

数控车床主轴箱是数控车床的关键组成部分，承担传递动力、支撑主轴以及保证加工精度等重要任务。

结构性强度，应力变形量、热变形量数据是重要的技术参数。

The CNC lathe spindle housing is a critical component of the CNC lathe, responsible for power transmission, supporting the main spindle, and ensuring machining accuracy. Data on structural strength, stress deformation, and thermal deformation are important technical parameters.





附件设备 Attachment equipment

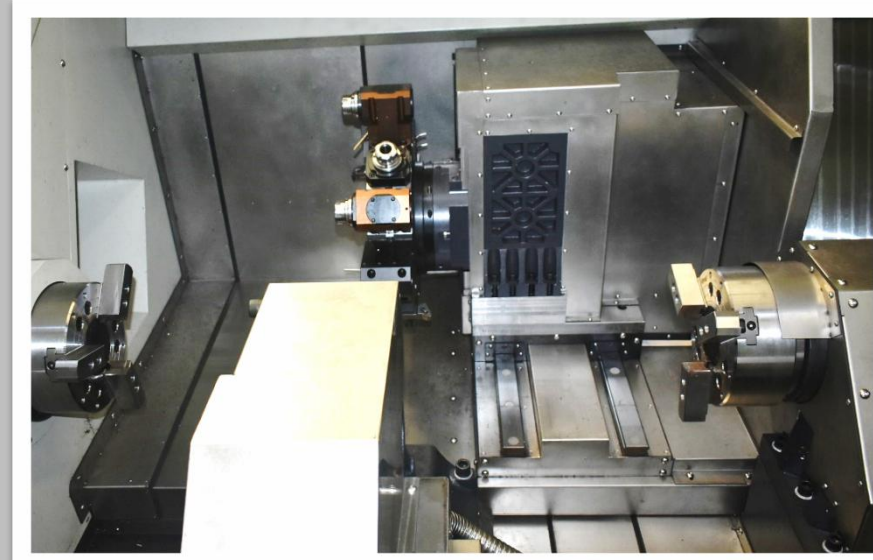
第二轴 Second spindle S SMC YS

采用双主轴布局形式，相对排列，副主轴接续主轴夹持工件，对夹持端继续加工，完成工件的全部加工工序。

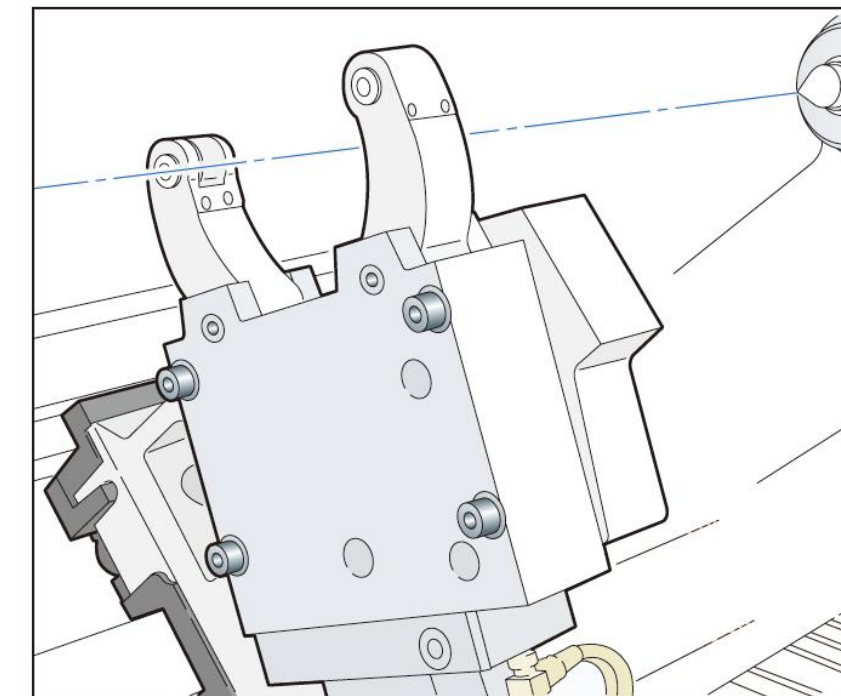
可完成一些复杂零件的精密零件的车削、钻削、铣削等工艺。12工位刀塔，换刀时间短，储刀量大，可根据不同加工部件的需要，安装多种刀具。

整体式倾斜床身设计，方便铁屑的排放及冷却液的循环使用。

Adopting a dual spindle layout, arranged relative to each other, the secondary spindle continues to clamp the workpiece, and the clamping end continues to process, completing all machining processes of the workpiece. It can complete processes such as turning, drilling, milling, etc. for precision parts of complex switches. 12 station turret, with short tool changing time and large tool storage capacity, can install various cutting tools according to the needs of different processing parts. The integral inclined bed design facilitates the discharge of iron filings and the circulation of coolant.



中心支架



液压式中心架(螺栓紧

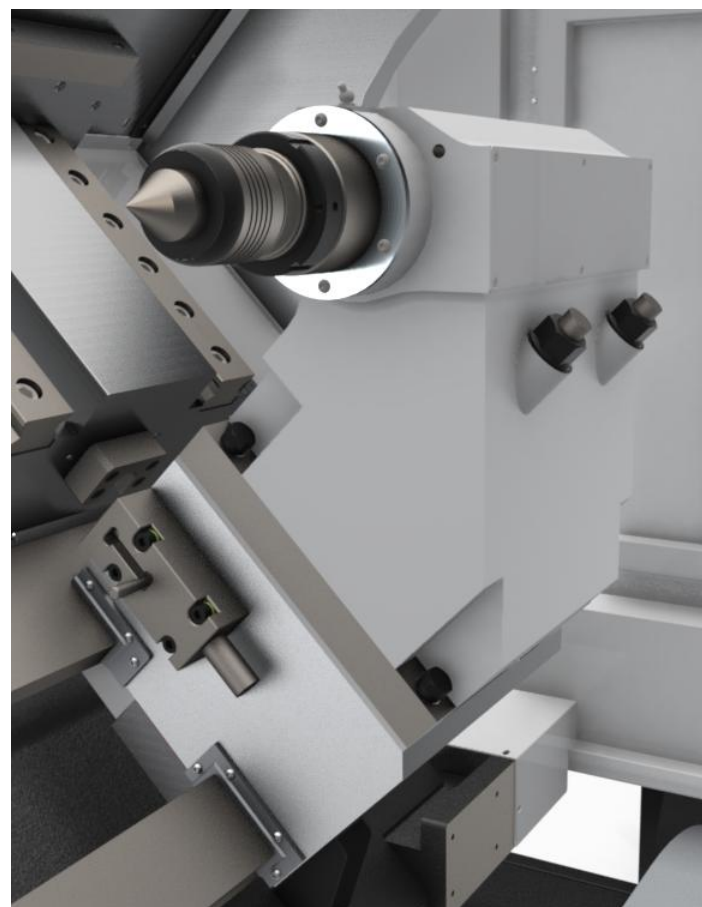
固)

通过液压固定中心架的自动调心功能，无需手动调心。使装夹时间更短。

Hydraulic center bracket (Bolt Tightening)
The hydraulic center bracket with bolt tightening eliminates the need for manual centering through its automatic centering function, reducing clamping time significantly.

尾座 Tailstock

两轴车削 T MC Y



尾座的使用

操作尾座所需的步骤更少，使用传统的液压系统时，更改尾座主轴设置很不方便，所以单从这方面就可以节省大量操作时间。数控尾座具有可变进给速度控制功能，允许为放料和顶紧设置不同的速度，将尾座主轴的操作时间减少逾20%。

节省操作时间

当采用液压尾座主轴时，其推力由液压计间接控制，所以如果您使用不同的机器型号，即使设置了相同的压力，所获得的推力也不相同。而采用数字尾座时，推力是直接测量的，所以能够精确地执行工件顶紧，提高了加工精度。

The use of tailstock

The operation of the tailstock requires fewer steps. Normally, it's inconvenient to adjust the tailstock spindle settings when using a traditional hydraulic system, so a fewer adjustment can save a significant operating time. CNC tailstocks are equipped with variable feed speed control functions, enabling different speeds to be set for unloading and clamping, thereby reducing operation time of tailstock spindle by over 20%.

Save Operation Time

When using a hydraulic tailstock spindle, the thrust is controlled indirectly via a hydraulic gauge. Therefore, if you use different machine models, even if the same pressure is set, the obtained thrust will be different. On the other hand, with a digital tailstock, the thrust is directly measured, allowing precise execution of workpiece clamping and improving machining accuracy.



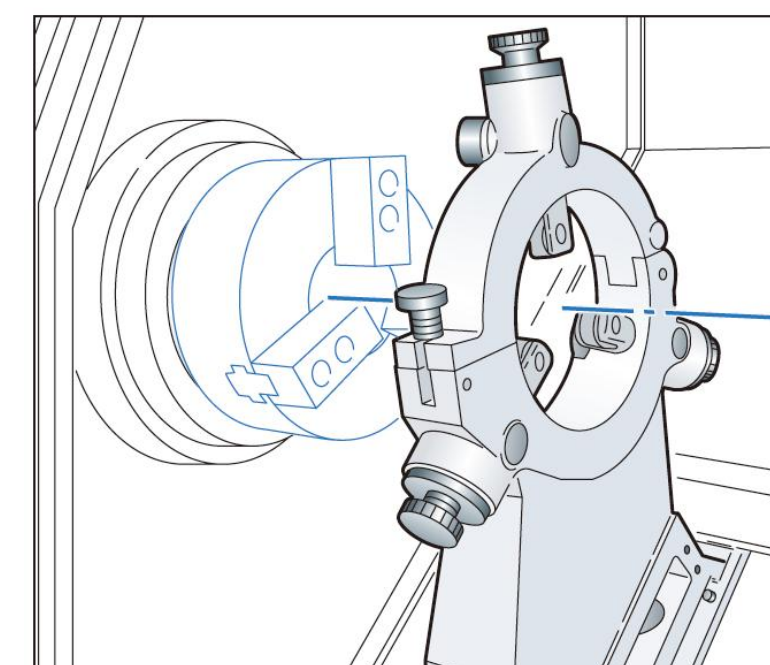
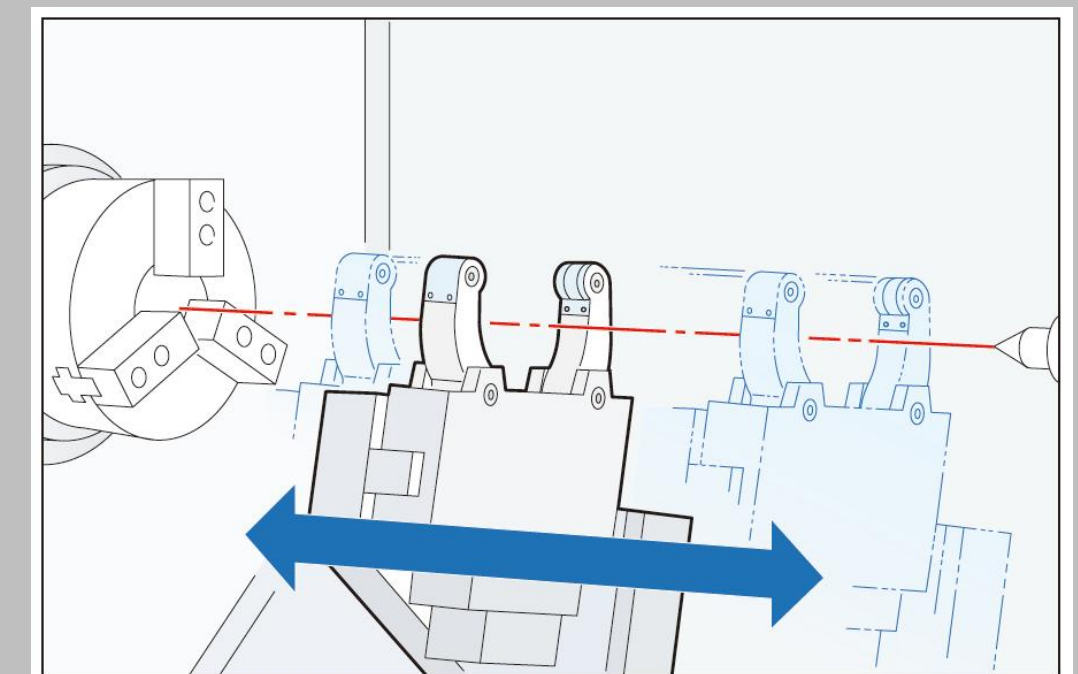
尾座类型Types of tailstocks

可编程尾座 Servo Tailstock	代号: ST
手动尾座 Manual Tailstock	代号: MT
尾座套筒 Tailstock sleeve	莫氏MT5#

液压式中心架(自动式)

我们使用液压装置自动支撑工件。由于采用了数控技术，固定中心架的运动也可精确定位。

Hydraulic center bracket (Automatic)
We utilize hydraulic systems to automatically hold the workpieces in place. The positioning of stationary bracket movement is highly accurate with integration of CNC technology.



中心架手动紧固螺栓，以支撑工件。

Diameter range

适用的工件直径

φ 20—φ 240 mm

φ 180—φ 350 mm

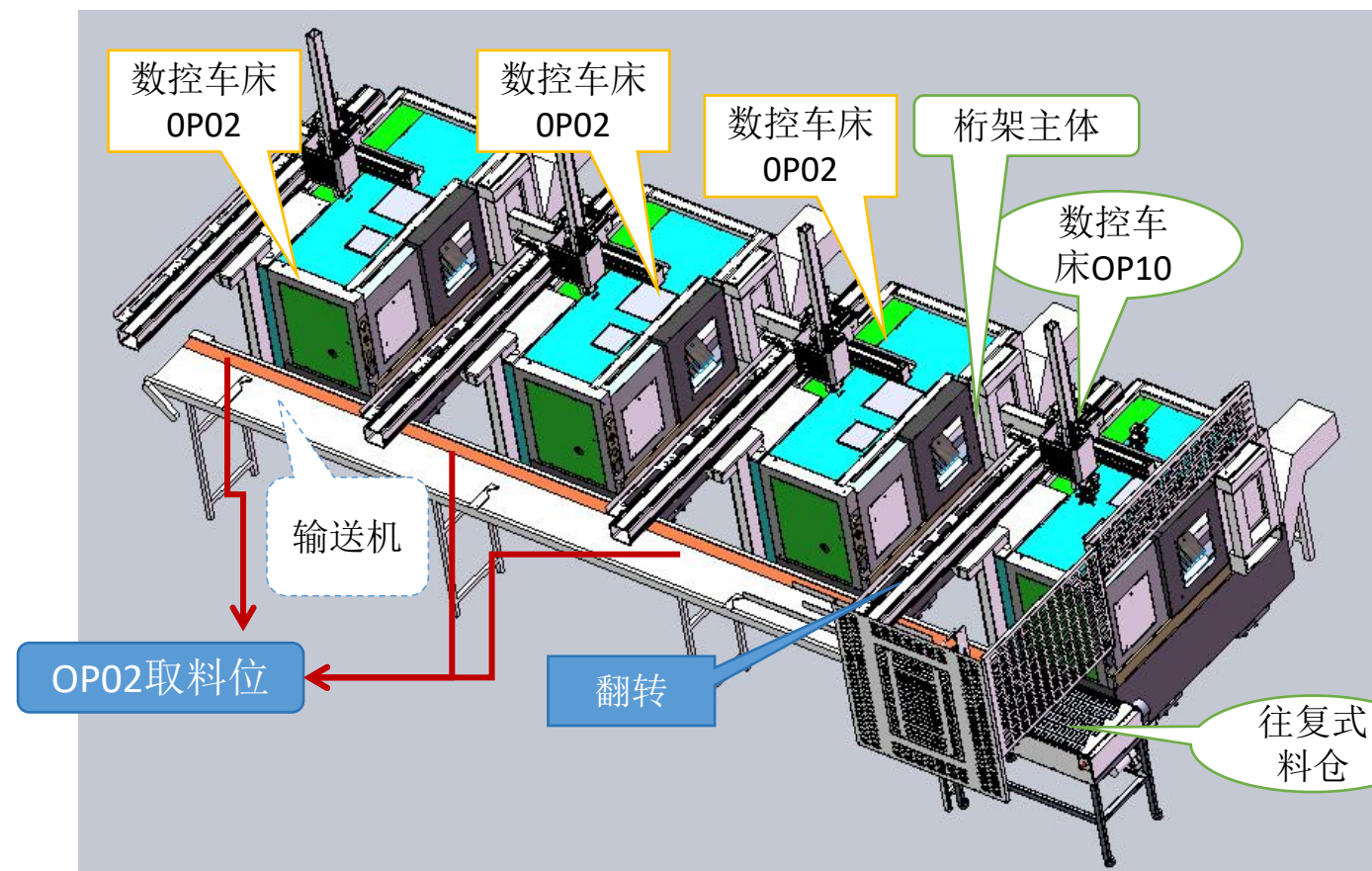
★ 中心架：因为会与工件卸料机发生干扰，所以选择工件卸料机时不适用。

The center bracket: It may interfere with the workpiece unloading machine, therefore, it is not suitable for unloading machine.



桁架机械手类别 Truss manipulator

桁架系列 Truss manipulator series

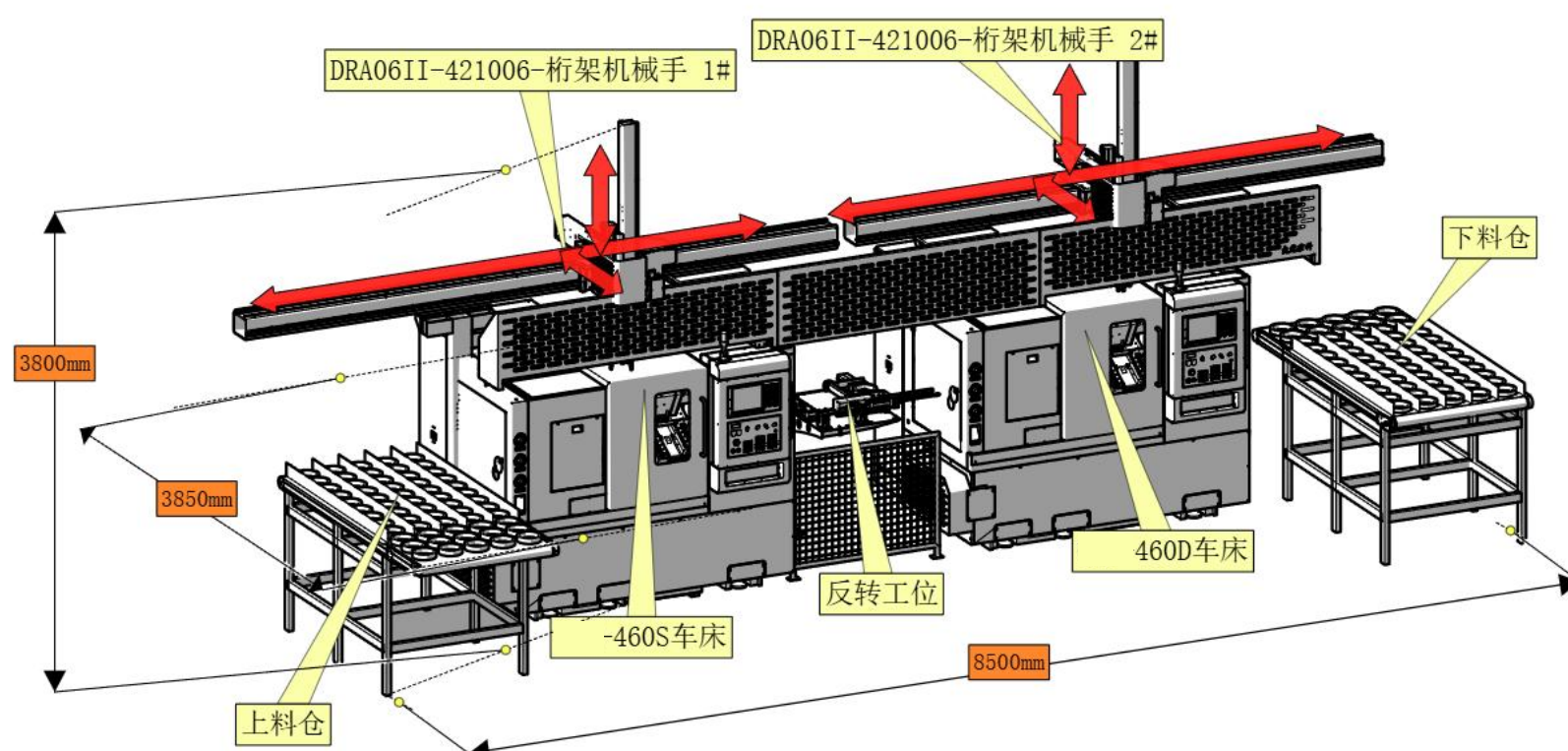


桁架机械臂特点:

- (1) 机械手本体采用三轴立体(X/Z/Y)架构, 应用灵活、方便调机、柔性更高。
- (2) 桁架横梁及立柱采用高强度钢材, 整体结构坚固可靠, 不易变形。
- (3) 传动采用直线导轨+精密齿轮齿条, 精度高, 寿命长, 速度快, 刚性好。
- (4) 导轨采用正交布局, 各个方向的受力均可承受。
- (5) 针对单台数控机床实现单工序同步生产或双工序换序生产(选配掉头机构)。
- (6) 可配双层矩阵料盘、链板机、提升机、振动盘、多工位升降料仓等供料及回料装置。
- (7) 最快速度可达1.5M/S。

Features of the Truss Robotic Arm:

- (1) The robotic arm body adopts a three-axis (X/Z/Y) spatial structure, offering flexible applications, easy machine adjustments, and high adaptability.
- (2) The truss beam and columns are made of high-strength steel, ensuring a sturdy and reliable structure that resists deformation.
- (3) The transmission system utilizes linear guide rail and precision gear rack, providing high accuracy, long lifespan, fast speed, and excellent rigidity.
- (4) The guide rails are arranged in an orthogonal layout, allowing them to withstand forces from all directions.
- (5) Designed for single-process synchronized production or dual-process sequential production (with an optional flip mechanism) on a single CNC machine.
- (6) It can be equipped with dual-layer matrix trays, chain conveyors, elevators, vibratory feeders, and multi-position lifting storage units for material feeding and retrieval.



桁架机械臂优越性:

- (1) 桁架机械臂是占用机床立方的立体空间, 相比占用厂区的平面空间的多关节机器人而言, 更节约空间。这对如今寸土寸金的国内工厂厂房而言, 价值自然显而易见。
- (2) 桁架机器人运动精度可达0.05mm, 比多关节机器人的0.25精度更胜一筹, 要知道工件装卡的精度直接影响到机加工的精度。
- (3) 机器人的操作区因安全因素需要对人隔离, 而桁架机器人的操作范围都在机床所在立体空间内, 因此车间里对人的限制范围少。
- (4) 桁架机器人都是直线运动, 而比多关节机器人运动轨迹是多轴联动形成的复杂运动曲线, 桁架结构简单运维成本更低。
- (5) 桁架机器人生产线工人可以时时监测加工过程, 问题排除迅速, 抽检方便, 人机协作较好。由于关节机器人的运动轨迹不可预见性, 生产单元全部封闭在实际生产过程中工人没法参与, 生产过程中对单元中的料仓, 生产设备, 机器人进行一系列的监控管理, 系统庞大复杂成本高。
- (6) “开机率”业内衡量设备稳定生产的标准。引入机器人自动上下料, 在实际生产过程中这对毛坯质量的稳定性, 刀具质量及寿命管理需有着更高的要求。关节机器人上下料, 整个生产过程无人化, 对刀具的管理包括具体到哪一把刀做的哪一个尺寸, 是否需要刀补, 补刀的尺寸, 只能通过测量输出端的产品尺寸来确定推测, 若这一尺寸有几把刀参与, 对生产管理挑战较大, 系统集成要求较高。桁架机械手由于人机协作性较好, 抽检, 补刀都可以低门槛实现。

Advantages of truss robotic arm:

- (1) The truss robotic arm occupies the three-dimensional space above the machine tool, which is more space-saving compared to multi joint robots that occupy the flat space of the factory area. For the domestic factories and buildings where every inch of land is precious nowadays, the value is naturally obvious.
- (2) The motion accuracy of the truss robot can reach 0.05mm, which is better than the precision of the multi joint robot. It should be noted that the accuracy of workpiece clamping directly affects the machining confined to .
- (3) The operating area of the robot needs to be isolated from people due to safety factors, while the operating range of the truss robot is within the three-dimensional space where the machine tool is located, so there are fewer restrictions on people in the workshop.
- (4) Truss robots simpler move in a straight line, while the motion trajectory of multi joint robots is a complex motion curve formed by multi axis linkage. The truss structure is simpler and has lower maintenance costs.
- (5) The workers on the truss robot production line can monitor the processing at all times, resolve issues quickly, facilitate sampling, and have good human-machine cooperation. Due to the unpredictability of the motion trajectory of articulated robots, the production units are completely enclosed in the actual production process, and workers cannot participate. During the production process, a series of monitoring and management are carried out on the silos, production equipment, and robots in the units, resulting in a large, complex, and costly system.
- (6) The “startup rate” is the industry standard for measuring the stable production of equipment. Introducing robots for automatic loading and unloading of materials requires higher requirements for the stability of raw material quality, tool quality, and lifespan management in actual production processes. The joint robot is used for loading and unloading materials, and the entire production process is unmanned. The management of cutting tools includes specific details such as which knife is used for which size, whether it needs to be supplemented, and the size of the supplemented knife. It can only be inferred by measuring the product size at the output end. If there are several knives involved in this size, it poses a significant challenge to production management and requires high system integration requirements. Due to its good human-machine cooperation, the truss manipulator can achieve low threshold inspection and tool repair.





自动化类别 Articulated Robot

工业机器人系列 Industrial Robot Series

实现无缝的生产流程。工业机器人根据预定的程序，精准地完成机床与外部设备之间的物料搬运和转换。这一过程大大减少了人为操作的失误和延迟，实现了生产线的快速反应与调整。

工业机器人与机床均通过坐标运动实现位姿变化。机床通过控制刀具在空间中的移动，实现对工件的加工；机器人则通过操控手部在空间中的移动，实现对任务的执行。无论是机床的刀具还是工业机器人的手部，它们的位姿变化都是通过坐标控制来实现。

工业机器人与机床在基本功能和工作原理上存在诸多相似之处。它们共同通过控制末端执行器的位姿变化，实现特定任务的执行。这一特性使得工业机器人在现代制造业中扮演着不可或缺的角色，成为提高生产效率和产品质量的重要工具。

Realize a seamless production process. Industrial robots accurately complete material handling and conversion between machine tools and external equipment according to pre-programmed instructions. This process greatly reduces human errors and delays, achieving rapid response and adjustment of the production line.

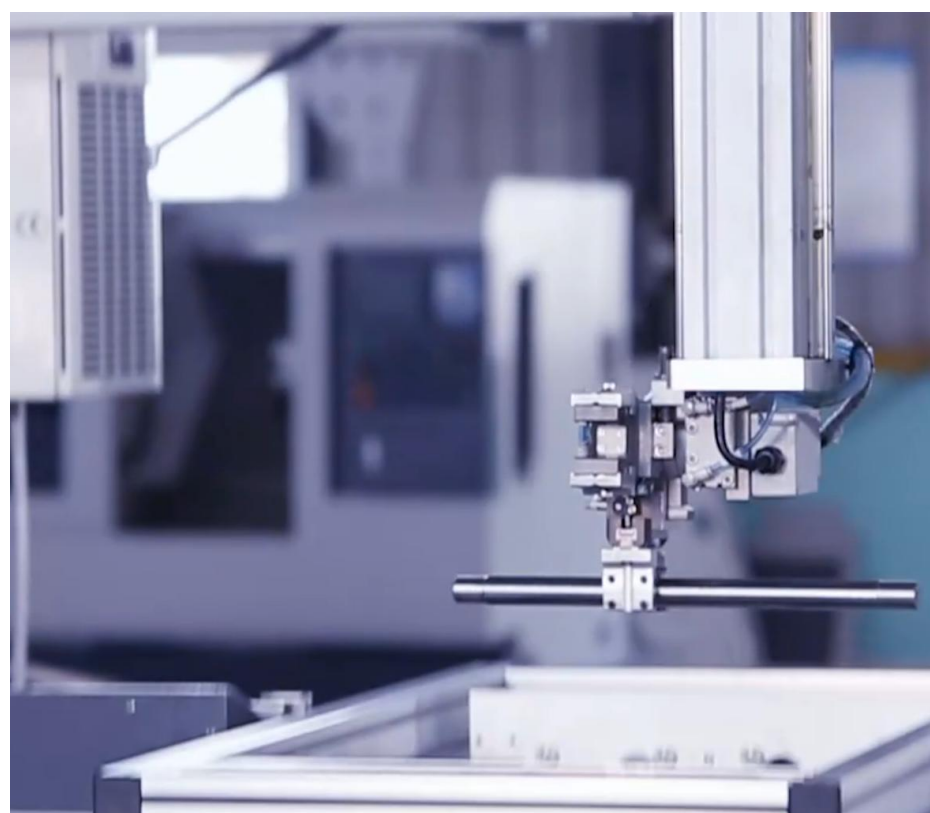
Both industrial robots and machine tools achieve position and orientation changes through coordinate-based motion control. Machine tools execute machining of workpieces by controlling the movement of cutting tools in space; Robots perform tasks by manipulating the movement of their hands in space. Whether it is the cutting tools of machine tools or the hands of industrial robots, their position changes are achieved through coordinate control.

There are many similarities between industrial robots and machine tools in terms of basic functions and working principles. They jointly control the pose changes of the end effector to achieve the execution of specific tasks. This characteristic makes industrial robots play an indispensable role in modern manufacturing, becoming an important tool for improving production efficiency and product quality.

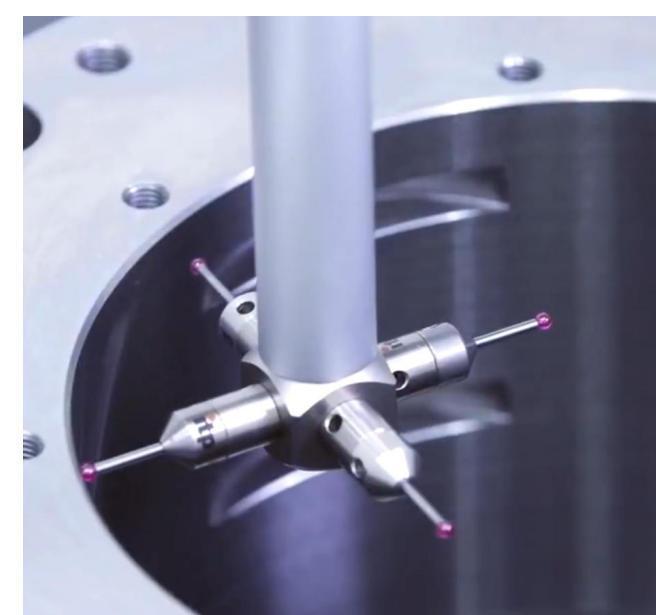




综合案例 Comprehensive project case



轴类桁架自动化案例
Automation case of axle truss



人工介入率50%，
产品合格率高于90%，产品一致性高于95%。
Manual intervention rate at 50%, product qualification rate exceeding 90%, and product consistency above 95%.

数控机床 CNC



智能机器人
Articulated Robot



桁架机械手
Truss manipulator



车铣复合机
Turning and Milling
Machine Center



人工介入率10%，
产品合格率高于90%，产品一致性高于95%。
Manual intervention rate at 10%, product qualification rate exceeding 90%, and product consistency above 95%.

能源设备制造业
Energy
Equipment
Manufacturing
Industry



应用场景

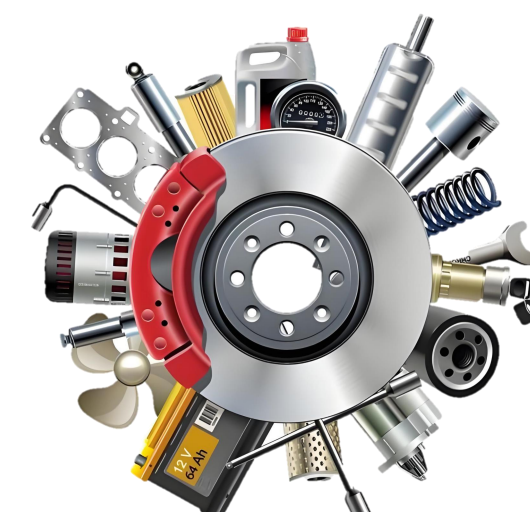
模具制造业
Mold
Manufacturing
Industry



航空航天制造业 Aerospace Manufacturing Industry



汽车制造业
Automotive
Industry



轴承加工 Bearing Manufacturing



加工产品展示



我们的产品主要服务于新能源汽车，船舶，精密模具，轨道交通，航空航天等行业的金属及其新材料的切削、铣削的综合加工。多年来，公司注重品牌经营战略，全面落实质量管理，不断完善服务体系，坚持“一切以客户为中心”走“做优做强”之路。在不久的将来努力把把我们公司打造成为国内知名的母机生产企业。

Our products are primarily used by comprehensive machining services for turning and milling of metals, such as new energy vehicles, shipbuilding, precision molds, rail transportation, aerospace and others. Over the years, our company has placed a strong emphasis on brand management, implemented quality management comprehensively, and continuously improved our service systems. We adhere to the principle of "Customer Foremost" and follow the path of "Pursuing Excellence and Growth." In the near future, we aim to establish our company as a renowned machine tool manufacturer in China

Processing Product Exhibition