Taikan

HIGH-END INTELLIGENT EQUIPMENT TURNKEY SOLUTION SERVICE PROVIDER

SHENZHEN CREATE CENTURY AUTOMATION TECHNOLOGY CO., LTD .

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Taikan

HIGH-PRECISION CNC HORIZONTAL LATHE

High-end intelligent equipment turnkey solution service provider

Taikan

NO. 183
Shenzhen's Top 500 Enterprises in 2023

NO. 175
Guangdong top 500 manufacturers

TOP 100
Top 100 domestic enterprises

Bao an District, Shenzhen
Top 100 enterprises by tax contribution
Top 100 enterprises by innovation
Top 100 enterprises by output value
Top 100 enterprises by added value

COMPANY PROFILE

Guangdong Create Century Intelligent Equipment Group Co., Ltd. (Create Century, Stock code: 300083) was listed on the Shenzhen Stock Exchange in 2010 and transformed into Intelligent Equipment Co., Ltd. in 2016 . The company is a national high-tech enterprise of intelligent equipment, integrating R&D, production, sales and service. With nearly 20 years of industry experience, it can provide customers with high-quality equipment and intelligent solution service. It is one of the companies with the most complete technology and the widest product range among similar domestic companies.

4 R&D Centers

Shenzhen Suzhou
Shanghai Xi 'an

500+ R&D Engineers

The company boasts a technical advisory board consisting of industry-leading technical experts from Mainland China, Taiwan, South Korea, Malaysia,Germany, and other regions, along with a dedicated R&D team of over 500 professionals.

700+ Core Patents

Invention patents----------168
Utility model patents----------509
Design patents----------121
Software copyrights----------88

4 Strategic Cooperation Institutions

Shenzhen academician <expert> workstation
Intelligent precision machining key technology engineering laboratory
Guangdong engineering technology research center
Shenzhen enterprise technology center

Four Production Bases

Huzhou Manufacturing Headquarters

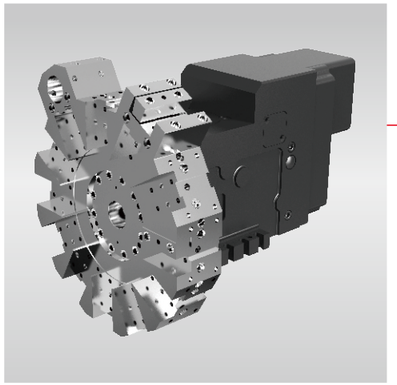
Yibin Manufacturing Base

Dongguan Manufacturing Base

Suzhou Manufacturing Base

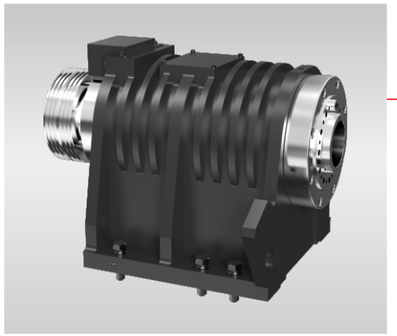
高精度数控卧式车床

HIGH-PRECISION CNC HORIZONTAL LATHE



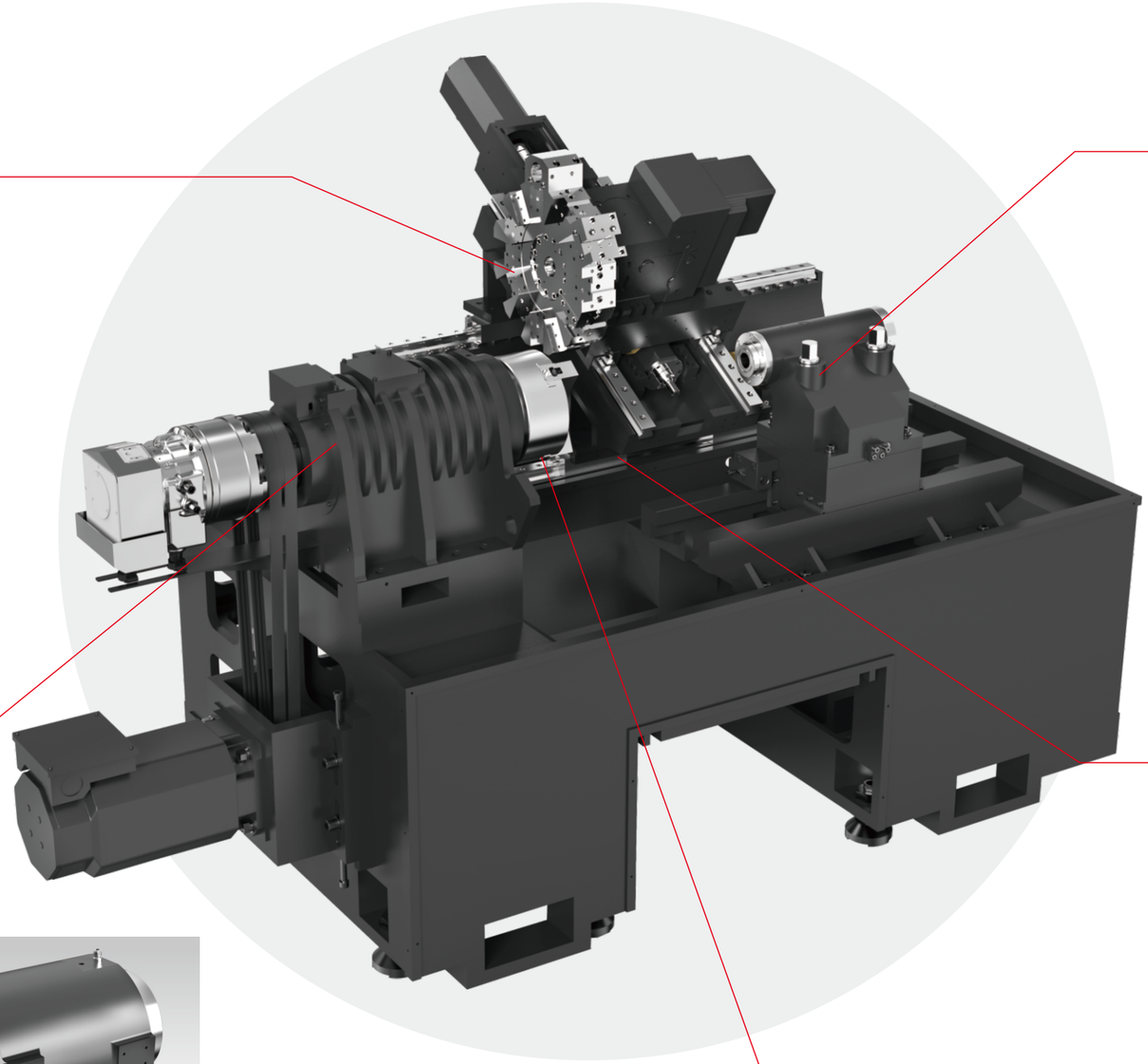
伺服刀塔 SERVO TURRET

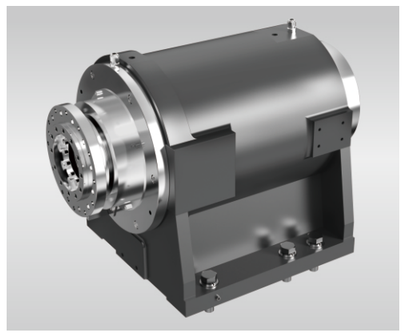
刀塔整体结构刚性佳，采用伺服电机驱动，内部减速机构，动作精准可靠。液压夹紧，夹紧力大、稳定可靠、适用重切削，重复精度可达：±2“。所有密封圈、轴承等关键组件均采用日系及德第品牌



机械主轴 MECHANICAL SPINDLE

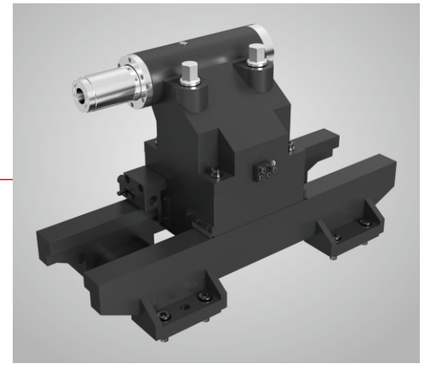
主轴结构紧凑，优化设计减小了发热量，大扭矩电机满足高效率加工的需要。高刚性的双列圆柱滚子轴承，保证了主轴的高精度、高刚性。





电主轴 ELECTRIC SPINDLE

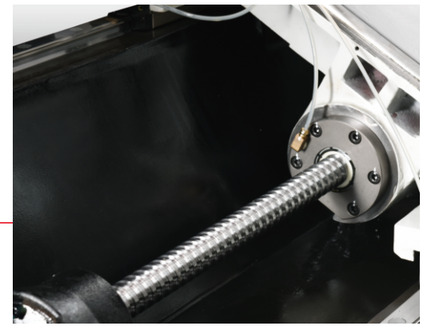
电机直联带动主轴转动，减小了传动误差，低振动，具有高转速特性，能够大幅提高表面光洁度，减少刀具损失。采用进口P4级双列圆锥滚子及滚珠轴承，精度高，寿命长。



液压套筒式尾架

HYDRAULIC SLEEVE-TYPE TAILSTOCK

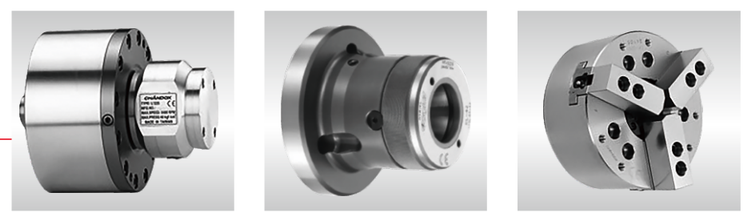
大跨距硬轨结构设计，高刚、性强，承载能力强。燕尾式结构，下压板锁紧时更加可靠。套筒行程长，液压顶紧工件，顶紧力可调，满足不同种类产品的加工需求。



精密丝杠/导轨

PRECISION BALL SCREW/GUIDE RAIL

X/Z轴采用进口Φ32（C3级）大直径高速静音滚珠丝杠，定位精度±0.003mm。进口滚柱重负荷型导轨，刚性好、抑制振动，提高刀具寿命，精度高、响应速度快，使用寿命长。



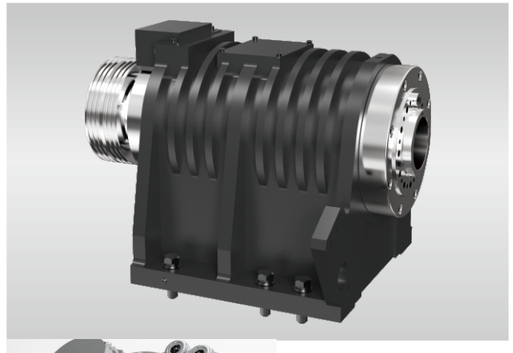
卡盘油缸 CHUCK HYDRAULIC CYLINDER

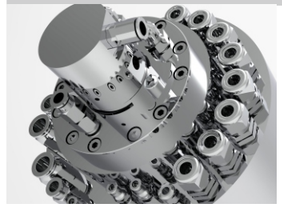
高刚性结构及高夹持精度滑动面均硬化及精密研磨，并直接润滑；卡盘楔形三爪设计，特别适合异形物的夹持。

[机械主轴 MECHANICAL SPINDLE]

★前侧采用进口P4级高刚性的双列圆柱滚子轴承和高刚性的角接触球轴承；
★后侧采用进口P4级高刚性的双列圆柱滚子轴承，通过合理的优化布局，保证了主轴的高精度、高效率、高刚性。

★ The front side is equipped with imported P4 grade high-rigidity double-row cylindrical roller bearings and high-rigidity angular contact ball bearings.
★ The rear side is equipped with imported P4 grade high-rigidity double-row cylindrical roller bearings. Through a well-optimized layout, it ensures high precision, high efficiency, and high rigidity of the spindle.

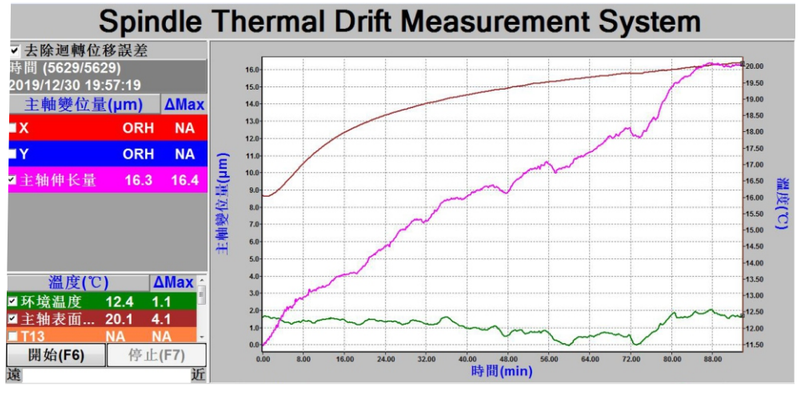




主轴优点
Spindle advantages

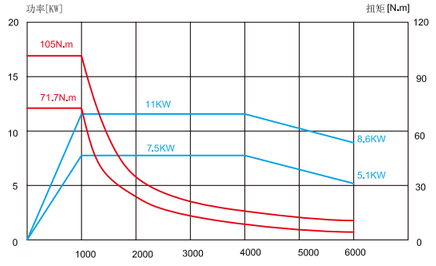
★ 主轴结构紧凑，轴承布局合理，严格的装配及检测条件，保证了主轴的高精度及稳定性；
★ 主轴电机采用高转速大扭矩电机，可以满足高效率加工的需要；
★ 通过对主轴的优化设计，减小了主轴单元的发热量，通过对主轴温度和热延伸量的测控，保证主轴单元的加工稳定性；
★ 配备高精度磁栅编码器，降低测量误差。

★ The spindle features a compact structure and a well-designed bearing layout, along with strict assembly and testing conditions, ensuring high precision and stability.
★ The spindle motor adopts a high-speed and high-torque motor, meeting the requirements for efficient machining.
★ Through optimized design, the heat generation of the spindle unit is reduced, and temperature and thermal expansion are measured and controlled to ensure machining stability.
★ Equipped with a high-precision magnetic encoder, it reduces measurement errors.

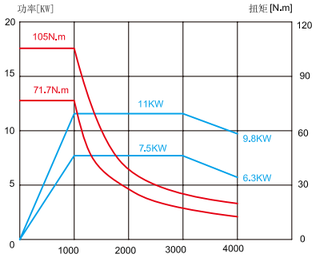


配FANUC系统
FANUC SYSTEM

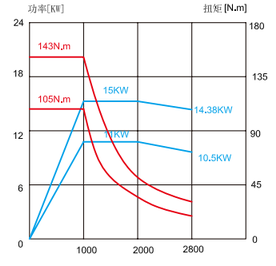
A2-5机械主轴功率扭矩图
A2-5Power-Torque Chart of the Mechanical Spindle



A2-6机械主轴功率扭矩图
A2-6Power-Torque Chart of the Mechanical Spindle

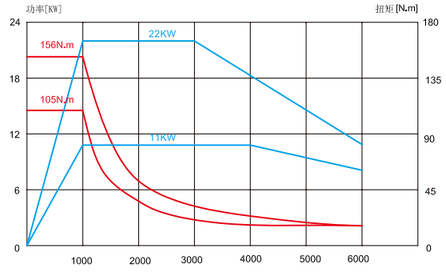


A2-8机械主轴功率扭矩图
A2-8Power-Torque Chart of the Mechanical Spindle



配西门子系统
SIEMENS SYSTEM

A2-5机械主轴功率扭矩图
A2-5Power-Torque Chart of the Mechanical Spindle



A2-6机械主轴功率扭矩图
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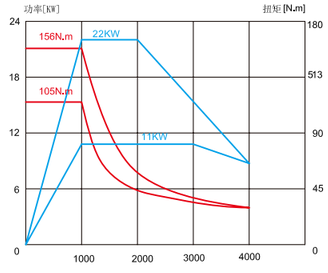

A2-8机械主轴功率扭矩图
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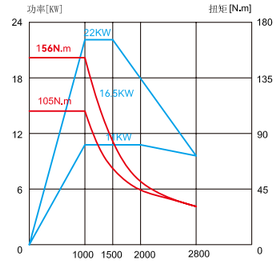
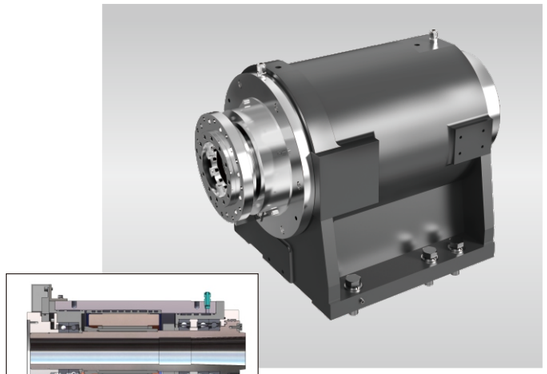


[电主轴 ELECTRIC SPINDLE]

★采用进口P4级双列圆锥滚子及滚珠轴承，精度高，寿命长。
★高刚性电主轴可以大幅提高生产效率。
★电机直联带动主轴转动，减小了传动误差，低振动，具有高转速特性，能够大幅提高表面光洁度，减少刀具损失。
★优化了主轴结构，主轴故障率低，通过水冷结构减小了主轴的发热量，保证主轴的加工稳定性。

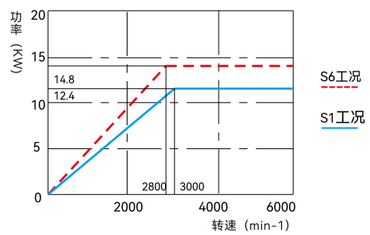
★Adopting imported P4 grade double-row tapered roller and ball bearings, the machine features high precision and long service life.
★The high rigidity electric spindle greatly improves production efficiency.
★The direct drive of the motor to the main spindle reduces transmission errors, minimizes vibration, and exhibits high-speed characteristics, leading to significantly improved surface smoothness and reduced tool wear.
★The main spindle structure has been optimized to ensure low failure rate and enhanced processing stability. The water cooling system reduces heat generation, further ensuring the stability of the main spindle during operation.



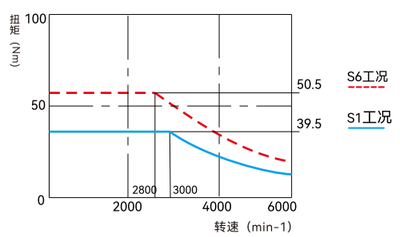
配FANUC系统
FANUC SYSTEM

A2-4电主轴功率扭矩图 A2-4 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve

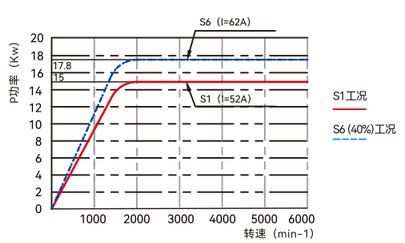


转矩特性曲线 Torque Characteristic Curve

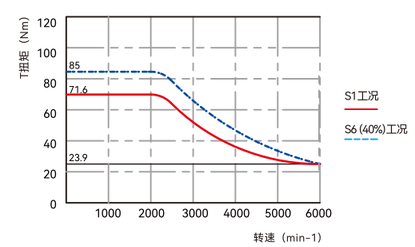


A2-5电主轴功率扭矩图 A2-5 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve



转矩特性曲线 Torque Characteristic Curve



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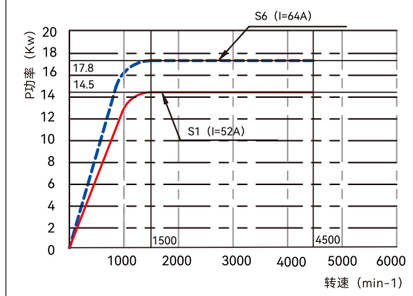
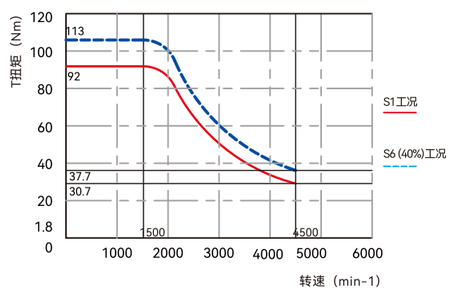
A2-6电主轴功率扭矩图 A2-6 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve

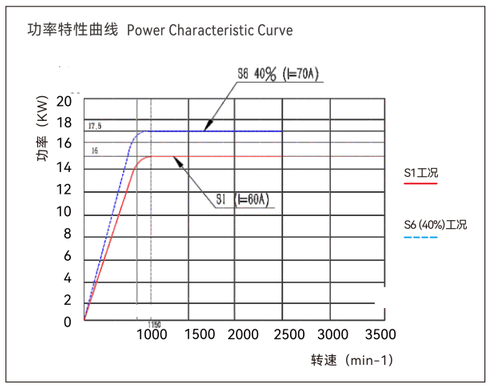


转矩特性曲线 Torque Characteristic Curve

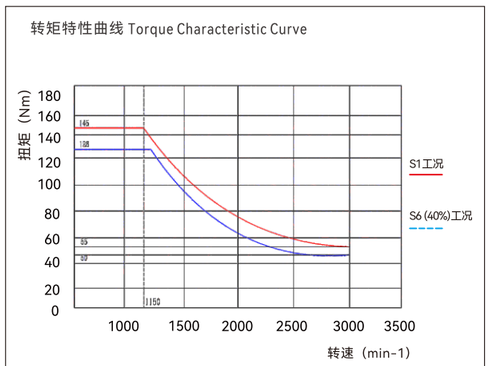


A2-8电主轴功率扭矩图 A2-8 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve



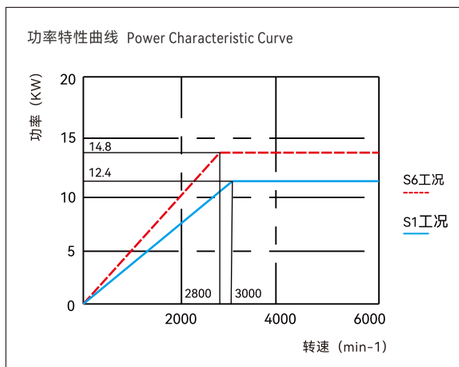
转矩特性曲线 Torque Characteristic Curve



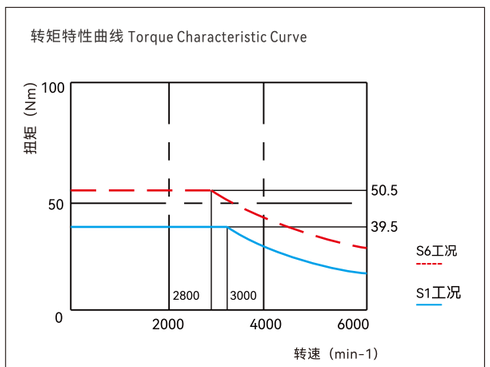
配西门子系统
SIEMENS SYSTEM

A2-4电主轴功率扭矩图 A2-4 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve

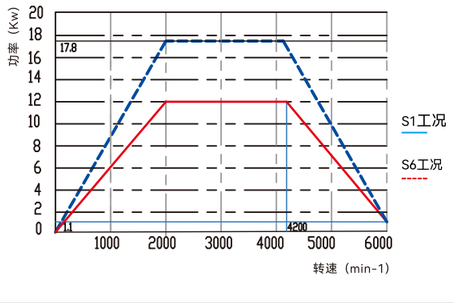


转矩特性曲线 Torque Characteristic Curve

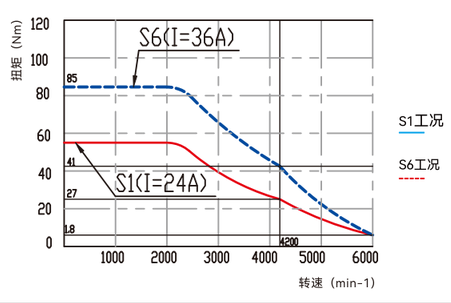


A2-5电主轴功率扭矩图 A2-5 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve

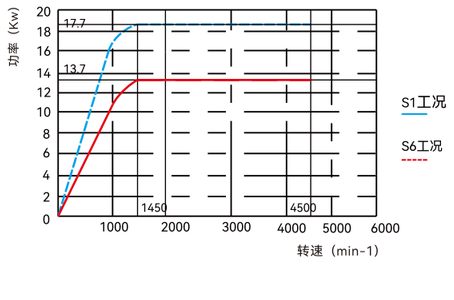


转矩特性曲线 Torque Characteristic Curve



A2-6电主轴功率扭矩图 A2-6 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve



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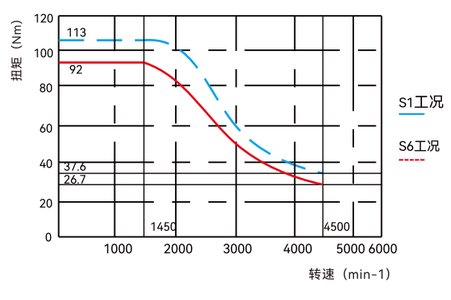
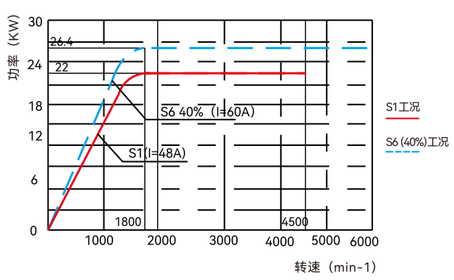


A2-8电主轴功率扭矩图 A2-8 Electric Spindle Power-Torque Chart

功率特性曲线 Power Characteristic Curve



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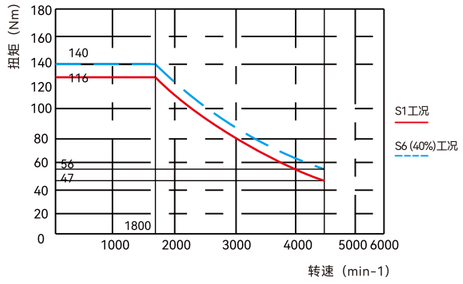
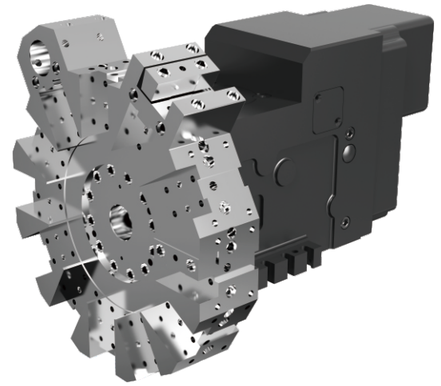


Taikan

[伺服刀塔 SERVO TURRET]

★标配刀塔采用伺服电机驱动，内部减速机构，动作精准可靠;可双向旋转，就近选刀，速度快，平稳;三片式端齿盘，免抬换刀、防护好;液压夹紧，夹紧力大、稳定可靠、适用重切削。
★配备专用刀具，有效的避免铁屑缠绕，并显著提高刀具寿命。
★采用渗碳研磨凸轮，分割机构。精度高，故障率低。
★刀塔整体结构刚性佳。
★所有密封圈，轴承均采用日系品牌。线材及接线端子均采用德系品牌。

★The standard turret is driven by a servo motor with an internal reduction mechanism, providing precise and reliable movement. It can rotate in both directions, allowing for quick and smooth tool selection. The three-piece end gear ensures effortless tool changing and provides excellent protection. The hydraulic clamping system offers strong and stable clamping force, suitable for heavy cutting.
★Equipped with dedicated cutting tools, effectively preventing chip entanglement and significantly improving tool life.
★Utilizes carburized and ground cam and indexing mechanism for high precision and low failure rate.
★The overall structure of the turret is rigid and sturdy.
★All seals and bearings are from reputable Japanese brands, while the wire and terminal connectors are from reliable German brands.



动作精准 / 适用重切削

重复精度可达：±2“

关键组件均采用日系/德系品牌

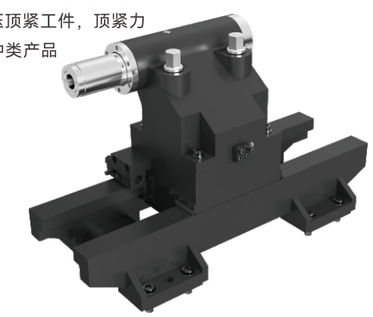
伺服刀架参数 Servo turret parameters

刀具容量	Tool capacity	12
刀具分度时间	Tool indexing time	0.18S(0.5S)
外圆刀具尺寸	Outer diameter tool size	25X25mm
最大镗刀直径	Maximum boring tool diameter	Ø40mm
定位精度	Positioning accuracy	±4"
重复定位精度±1.6"	Repeatability: ±1.6"	±1.6"

液压套筒式尾架

HYDRAULIC SLEEVE-TYPE TAILSTOCK

★大跨距硬轨结构设计，高刚、性强，承载能力强。
★燕尾式结构，下压板锁紧时更加可靠。
★套筒行程长，液压顶紧工件，顶紧力可调，满足不同种类产品的加工需求。



★Large-span hardened rail structure design, high rigidity and strong load-bearing capacity.
★Dovetail structure for more reliable locking when the pressure plate is tightened.
★Long sleeve stroke, hydraulic clamping of workpieces with adjustable clamping force, meeting the processing needs of different types of products.

精密丝杠/导轨

PRECISION BALL SCREW/GUIDE RAIL

X/Z轴采用进口Φ32（C3级）大直径高速静音滚珠丝杠，合理的预拉伸量有效防止温升变形，提高定位精度；快速进给可达30m/min，高效率，定位精度±0.003mm;X/Z轴采用35mm进口滚柱重负荷型导轨，刚性好，抑制振动，提高刀具寿命，精度高，响应速度快，使用寿命长，可以满足客户长期的使用需求。

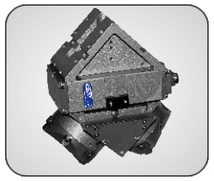
The X/Z axes are equipped with imported ?32 (C3 grade) large-diameter high-speed and low-noise ball screws. The reasonable preloading effectively prevents thermal deformation and improves positioning accuracy. The rapid feed can reach 30m/min, ensuring high efficiency and a positioning accuracy of ±0.003mm. The X/Z axes adopt 35mm imported heavy-duty cylindrical roller guide rails, providing excellent rigidity, vibration suppression, extended tool life, high precision, fast response, and long service life. These features meet the long-term usage requirements of customers.

[智能制造 INTELLIGENT MANUFACTURING]

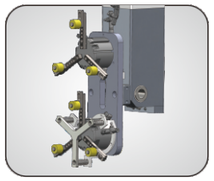
模组化设计 MODULAR DESIGN

- 加装桁架自动化、料仓、在线清洗、在线检测等功能后组成一条多功能车削生产线。
- 可以加远程监控功能和数据采集功能，与工厂的**EPR、MES**等智能化系统无缝对接。

机械手自动化模式



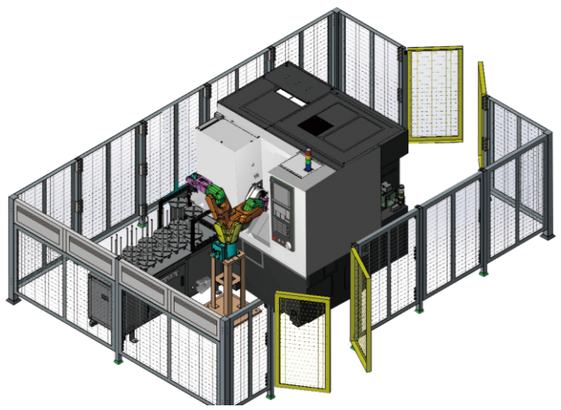
气动摆缸\
气动手爪集成，
90度对置。



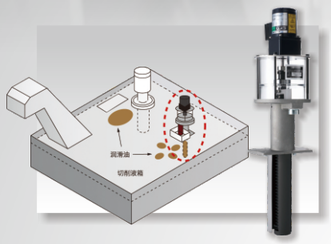
气动摆缸\
气动手爪集成，
水平对置。

机器人自动化模式

搬运能力可达
210KG

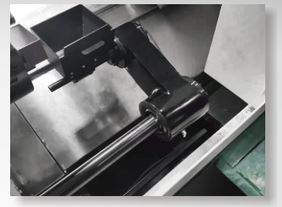


Taikan

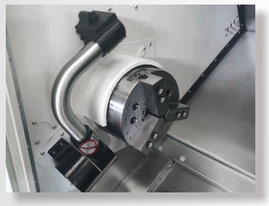


油水分离器
把切削液中废弃的油污分离出来，延长切削液使用寿命，节约成本，保护环境。

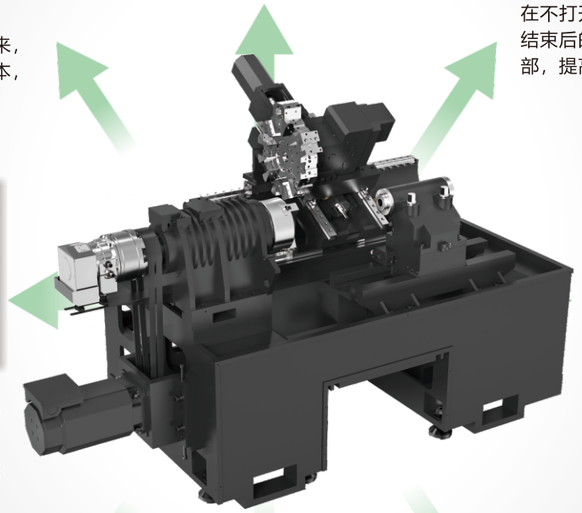
工件在线测量装置
通过设定接触感测器，可以自动计算已经加工工件的精度，并进行刀具补偿保证连续加工稳定性。



自动工件收集器
在不打开前门的状态下，将加工结束后的工件自动传输到机床外部，提高加工效率。

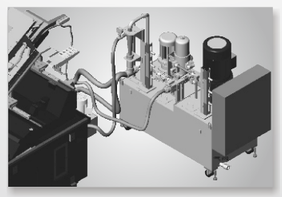


全自动对刀仪
对于操作者来说，只需要在NC系统中操作菜单键或M代码就可以自动将刀具数据补偿到NC系统中。



油雾收集器
吸收并处理油雾状的冷却液和油类，保持良好的车间环境，保障员工身体的身体健康，延长电力系统的使用寿命。

可编程尾座
可适用不同长度的棒料，精度稳定、可操作性强、简单灵活、刚性优越。



高压冷却装置
能提高加工效率、延长刀具使用寿命，和实现紫铜、不锈钢等材质高速断屑功能，可选不同规格的冷却泵。

棒料输送机
配置棒料输送功能，可以实现自动上料长时间无人运转

高精度数控卧式车床(刀塔/排刀车)

HIGH-PRECISION CNC HORIZONTAL LATHE (TURRET/ CUTTER LATHE)

工艺强大，一机多能、多品种、小批量，一次装夹可完成多样加工的个性化市场制造需求，满足复杂的零件加工需要，广泛应用于阀门、船舶和工程机械等领域，尤其受到汽车零部件制造企业的青睐。

Powerful technology enables the machine to be versatile, capable of handling multiple varieties and small batch production. With the ability to complete various machining processes in a single setup, it meets the demands of personalized market manufacturing. It is suitable for complex part machining and finds wide applications in industries such as valves, shipbuilding, and construction machinery. It is especially favored by automotive component manufacturers.

高精度数控卧式车床(刀塔/排刀车)

L-25H/L-35H/L-45H/L-45HP

★高刚性、低振动的30度斜床鞍结构设计延长了刀具使用寿命;
★高精度、高刚性主轴结构，主轴跳动0.003mm以内。
★高精度、高刚性、高稳定性Y轴动力刀塔。
★X、Z轴丝杆采用进口C3级双向预紧力丝杆，高速静音，30m/min，响应速度 快，定位精度高。
★按人体工程学原理设计，摆动式操作面板。
★自动化多种选项，实现更高生产效率。

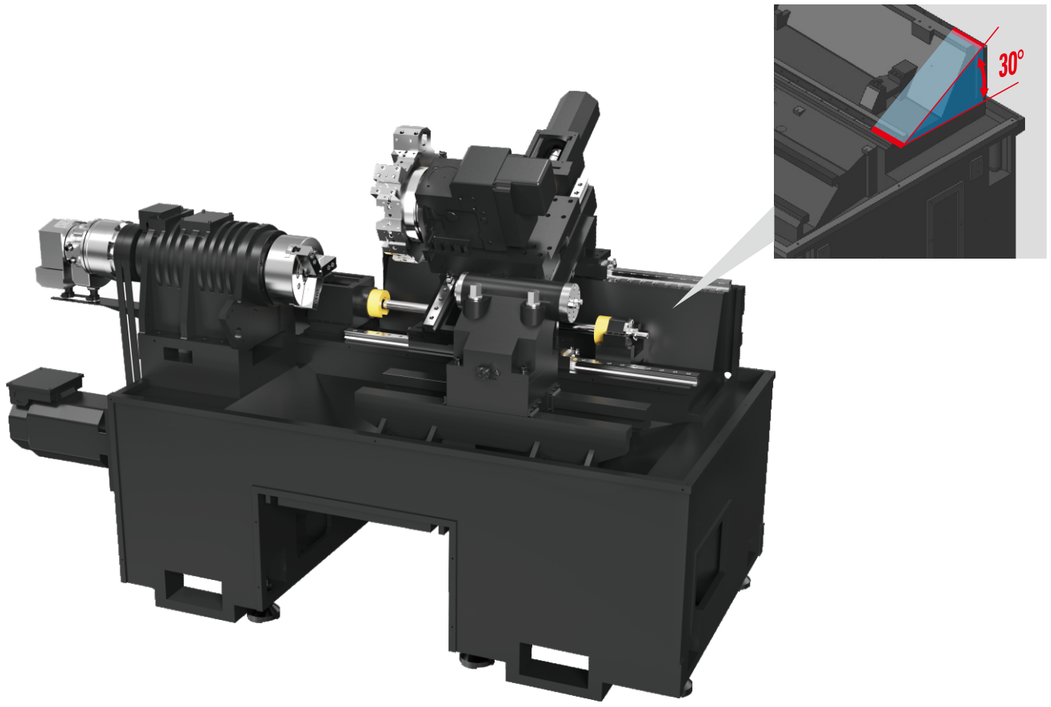
★High precision, high rigidity, and low vibration 30-degree slant bed saddle design extends tool life.
★High precision, high rigidity spindle structure with spindle run out within 0.003mm.
★High precision, high rigidity, and high stability Y-axis power turret.
★X and Z axes adopt imported C3-grade bi-directional preloaded ball screws, featuring high speed, low noise, fast response, and high positioning accuracy.
★Designed according to ergonomic principles, with a swing-type operation panel.
★Multiple automation options available to achieve higher production efficiency.
★Incorporating advanced technologies, such as high precision, high efficiency, and intelligent features.

高精·高效·智能

HIGH PRECISION·HIGH EFFICIENCY·INTELLIGENT

30°一体式床身结构特性
Characteristics of the 30° integrated bed structure

完美的刚性与稳定性
Perfect rigidity and stability



高刚性：
30°一体式高刚性斜床身设计，经过有限元分析，优化加强筋布局，使机床具有优良的刚性、低振动，同时实现最小占地面积。

高稳定性：
所有铸件均经过长时间的自然时效处理，并在精加工前进行二次振动时效处理，以消除铸件内部残余应力，确保精度持久稳定。

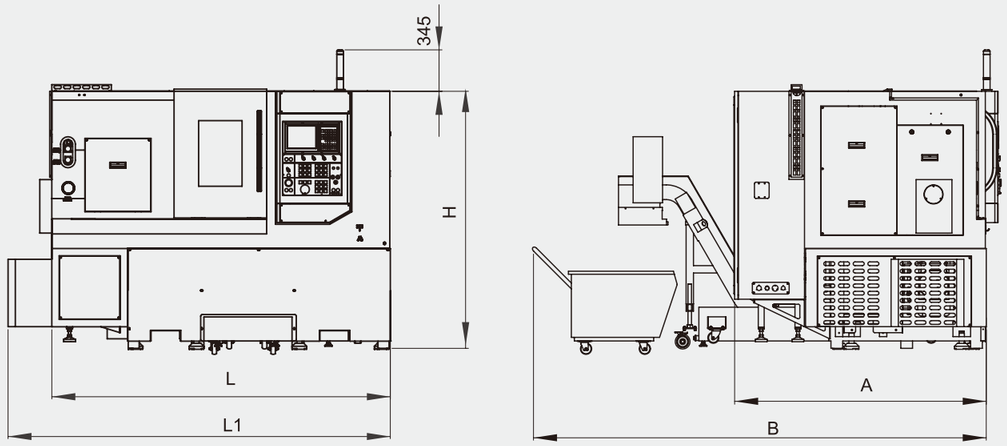
高承载性
X/Z轴采用进口P级重载荷35mm滚柱导轨采用大跨距结构设计，可满足高负荷作业。

High rigidity:
The 30° integrated high-rigidity slant bed design, optimized with finite element analysis and reinforced rib layout, provides excellent rigidity, low vibration, and minimal footprint for the machine tool.

High stability:
All castings undergo long-term natural aging treatment and secondary vibration aging treatment before precision machining to eliminate residual internal stress in the castings, ensuring long-lasting stability of accuracy.

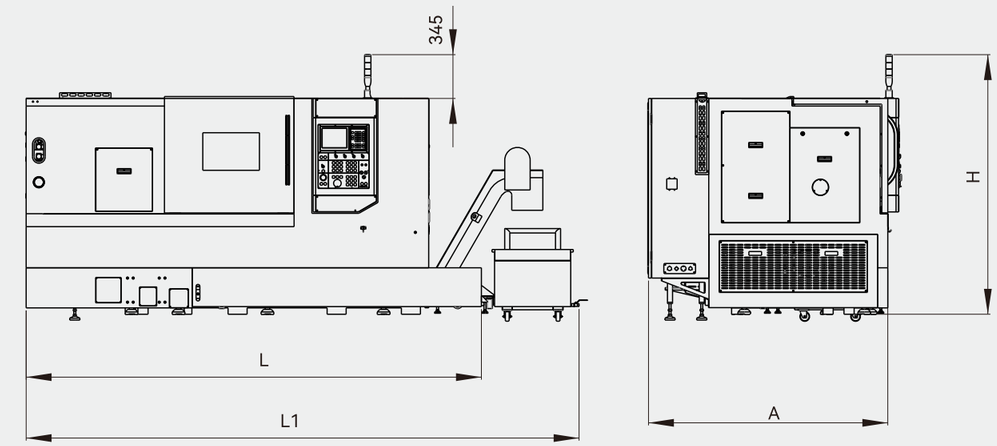
High load-bearing capacity:
The X/Z axes are equipped with imported P-grade heavy-duty 35mm roller guide ways with a large span structure design, capable of handling high-load operations.

机器外观尺寸图 Machine exterior dimensions diagram



标准尺寸 Standard dimensions

设备型号 Equipment model	L	L1	H	A	B
L-25H	2200	2498	1680	1620	3018
L-35H	2200	2498	1680	1620	3018
L-45H	2300	2625	1700	1700	2985

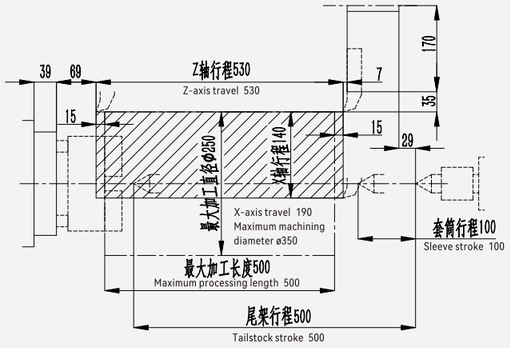


标准尺寸 Standard dimensions

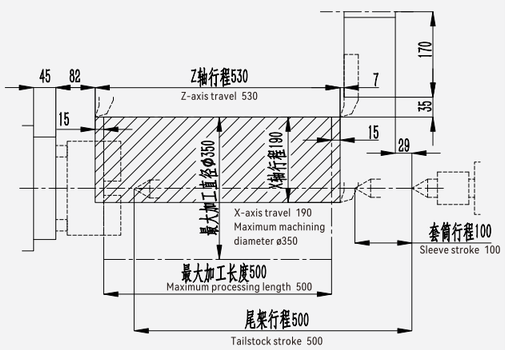
设备型号 Equipment model	L	L1	H	A
L-45HP	3580	4560	2050	1975

加工能力图 Processing Capacity Chart

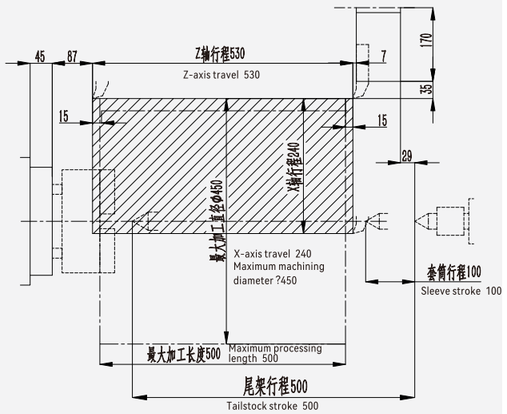
L-25H



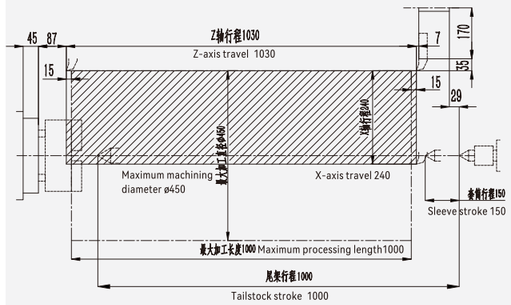
L-35H



L-45H

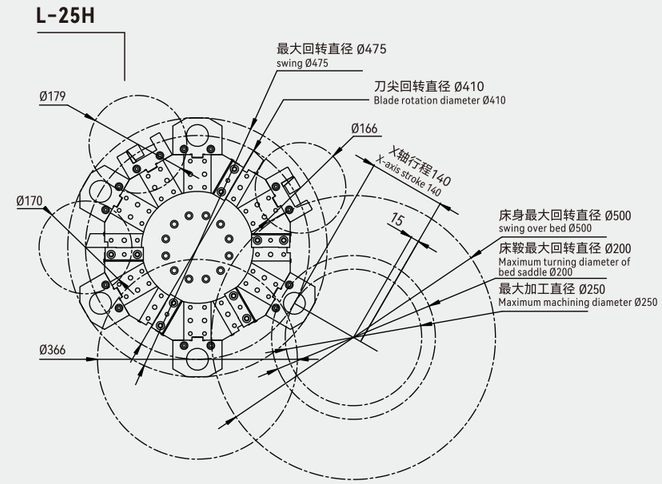


L-45HP

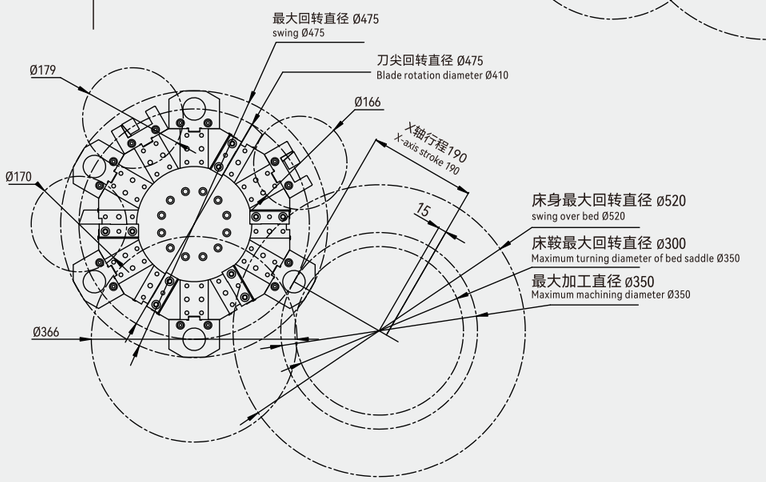


刀具干涉图 Tool interference diagram

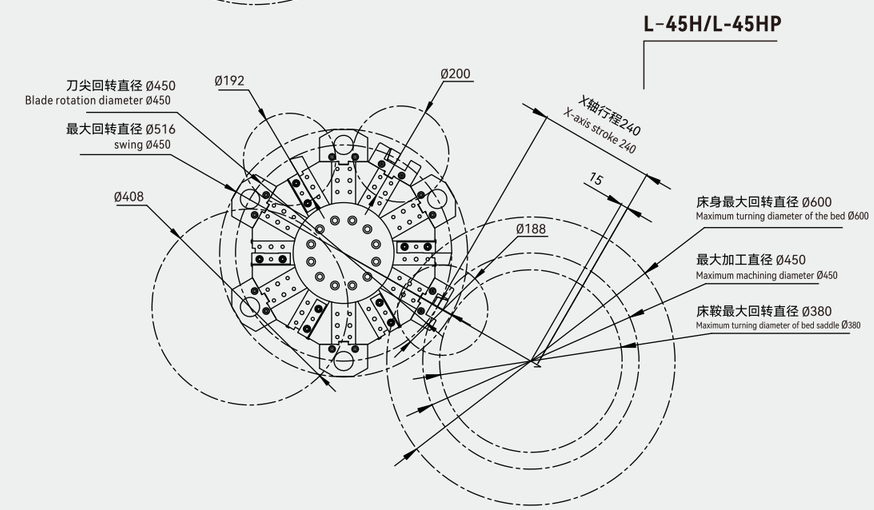
L-25H



L-35H



L-45H/L-45HP



参数表 Parameter Table

类 别Category	名 称 Name	L-25H	L-35H	L-45H	L-45HP
加工范围 Machining range	床身上最大回转直径(mm) Maximum swing diameter on the bed (mm)	Ø500	Ø520	Ø600	Ø600
	最大加工直径(轴/盘)(mm) Maximum machining diameter (shaft/disc) (mm)	Ø200/Ø250	Ø300/Ø350	Ø380/Ø450	Ø380/Ø450
	最大加工长度(mm) Maximum machining length (mm)	450	450	450	1000
	最大棒料直径(mm) Maximum bar diameter (mm)	Ø45	Ø52	Ø75	Ø75
行程 Travel	X轴行程(mm) X-axis travel (mm)	190	190	240	240
	Y轴行程(mm) Y-axis travel (mm)	/	/	/	/
	Z轴行程(mm) Z-axis travel (mm)	500	500	500	1030
主轴 Spindle	输出功率(kw) Output power (kW)	7.5/11	11/15	15/18.5	15/8.5
	主轴头形式 Spindle head form	A2-5	A2-6	A2-8	A2-8
	主轴最高转速(rpm) Maximum spindle speed (rpm)	6000	4000	2800	2800
	主轴通孔直径(mm) Spindle through-hole diameter (mm)	Ø57	Ø63	Ø87	Ø87
刀架 Tool turret	刀塔形式及刀具容量 Turret type and tool capacity	伺服/12 Servo/12	伺服/12 Servo/12	伺服/12 Servo/12	伺服/12 Servo/12
	外圆刀具尺寸(mm) External tool dimensions (mm)	25X25	25X25	25X25	25X25
	最大镗刀直径(mm) Maximum boring tool diameter	Ø40	Ø40	Ø40	Ø40
快移速度 Rapid traverse speed	X/Z轴(mm/min) X/Zaxis(mm/min)	30000	30000	30000	30000
进给速度 feed rate	进给速度(mm/min) Feed speed (mm/min)	1-8000	1-8000	1-8000	1-8000
尾架 Tailstock	尾架形式及锥孔形式 Tailstock type and taper hole type	液压套筒莫氏4# Hydraulic sleeve Mohs 4	液压套筒莫氏4# Hydraulic sleeve Mohs 4	液压套筒莫氏4# Hydraulic sleeve Mohs 4	液压套筒莫氏4# Hydraulic sleeve Mohs 4
	尾架套筒行程（mm） Tailstock sleeve travel (mm)	100	70/100	70/100	100/150
	最大移动量（mm） Maximum travel distance (mm)	500	500	500	1000
控制系统 Control system	NC形式 NC form	FANUC 0I TF(5)	FANUC 0I TF(5)	FANUC 0I TF(5)	FANUC 0I TF(5)
排屑形式 Chip removal form		自动后排 Automatic rear seat	自动后排 Automatic rear seat	自动后排 Automatic rear seat	自动后排 Automatic rear seat

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All images in this catalog are for reference only.Actual delivery may vary. Our company continuously improves its products, and in the event of any changes to the above information, no separate notice will be given.

加工案例 Processing Cases

Taikan

配置表 Configuration Table

项 目 Project	L-25H	L-35H	L-45H	L-45HP
主轴头A2-5 Spindle head A2-5	√	★	×	×
主轴头A2-6 Spindle head A2-6	★	√	★	★
主轴头A2-8 Spindle head A2-8	×	★	√	√
6寸中实卡盘油缸 6-inch solid hydraulic chuck	★	★	×	×
8寸中实卡盘油缸 8-inch solid hydraulic chuck	★	★	★	★
10寸中实卡盘油缸 10-inch solid hydraulic chuck	×	★	★	★
12寸中实卡盘油缸 12-inch solid hydraulic chuck	×	×	★	★
6寸中空卡盘中实油缸 6-inch hollow hydraulic chuck with solid cylinder	√	★	×	×
8寸中空卡盘中实油缸 8-inch hollow hydraulic chuck with solid cylinder	★	√	★	★
10寸中空卡盘中实油缸 10-inch hollow hydraulic chuck with solid cylinder	×	★	√	√
12寸中空卡盘中实油缸 12-inch hollow hydraulic chuck with solid cylinder	×	×	★	★
6寸中空卡盘油缸 6-inch hollow chuck oil cylinder	★	★	×	×
8寸中空卡盘油缸 8-inch hollow chuck oil cylinder	★	★	★	★
10寸中空卡盘油缸 10-inch hollow chuck oil cylinder	×	★	★	★
12寸中空卡盘油缸 12-inch hollow chuck oil cylinder	×	×	★	★
伺服刀塔 Servo turret	√	√	√	√
液压刀塔 Hydraulic turret	★	★	★	★
动力刀塔 Powered turret	★	★	★	★
12工位 12-station	√	√	√	√
液压套筒尾架 Hydraulic sleeve tailstock	√	√	√	√
伺服尾架 Servo tailstock	★	★	★	★
侧排屑（自动） Side chip evacuation (automatic)	★	★	★	√
后排屑（自动） Rear chip evacuation (automatic)	√	√	√	×
中心架 Center frame	★	★	★	★
对刀仪 Tool setter	★	★	★	★
棒料机 Bar feeder	★	★	★	★
自动接料装置 Automatic material receiving device	★	★	★	★
油雾收集器 Oil mist collector	★	★	★	★
高压出水 high-pressure water outlet	★	★	★	★
自动门 automatic door	★	★	★	★
副主轴 sub-spindle	★	★	★	★
光栅尺 grating scale	★	★	★	★
安全门光栅 Safety door light curtain	★	★	★	★

√ 标准配置 ★ 可选配置 × 不可选
√ Standard configuration ★ Optional configuration × Not available

高精度数控卧式车床(刀塔/排刀车)

HIGH-PRECISION CNC HORIZONTAL LATHE (TURRET/ CUTTER LATHE)

这款精密排刀系列数控车床，在市场调研分析的基础上进行了优化整合设计，与刀塔车系列进行高低搭配，可满足客户多样化加工需求。

Powerful technology enables the machine to be versatile, capable of handling multiple varieties and small batch production. With the ability to complete various machining processes in a single setup, it meets the demands of personalized market manufacturing. It is suitable for complex part machining and finds wide applications in industries such as valves, shipbuilding, and construction machinery. It is especially favored by automotive component manufacturers.

高精度数控卧式车床(刀塔/排刀车)

L-P20G/L-P30G/L-P36G/L-P46G

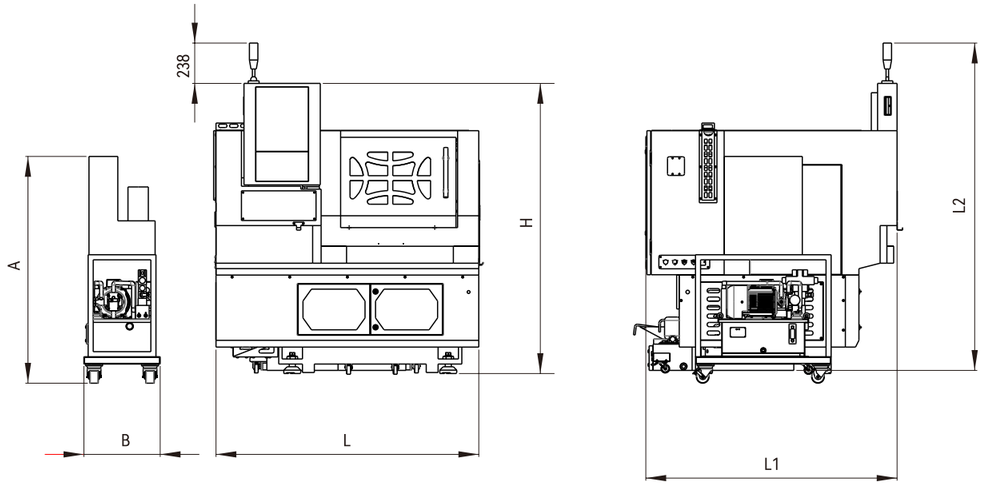
★机电一体化设计，占用空间小，造型美观结构合理。
★主轴采用高精密主轴单元，噪音小，转速高，使用寿命长。主轴跳动0.002mm以内。
★导轨采用高精密直线导轨，定位精度好，动态性能好，快移速度可达30m/min。重复定位精度可达到0.002mm。
★T型排刀板减少换刀时间，多样的刀具排列组合提高生产效率。
★全防式内防护，有效区隔加工区域，防水，防油，防尘效果好。
★自动化多种选项，实现更高生产效率。

★Integrated design of mechanics and electronics, occupying small space, with a visually appealing and structurally rational design.
★The main spindle adopts a high-precision spindle unit, characterized by low noise, high speed, and long service life. The spindle runout is within 0.002mm.
★The linear guide rails are of high precision, providing excellent positioning accuracy and dynamic performance. The rapid traverse speed can reach 30m/min, with a repeat positioning accuracy of up to 0.002mm.
★The T-type tool turret reduces tool change time, and the versatile tool arrangement enhances production efficiency.
★Full enclosure design provides effective separation of the working area, with good water, oil, and dust resistance.
★Various automation options are available to achieve higher production efficiency.

高精·高效·智能

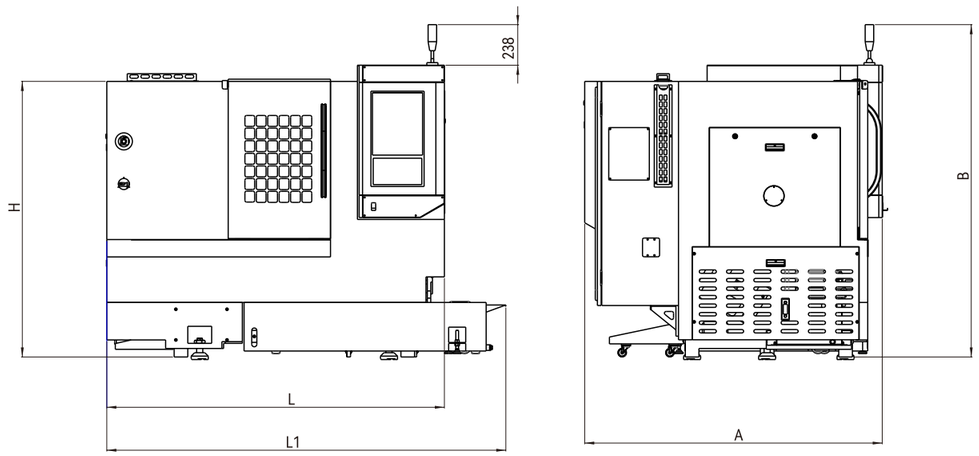
HIGH PRECISION·HIGH EFFICIENCY·INTELLIGENT

机器外观尺寸图 Machine exterior dimensions diagram



标准尺寸 Standard dimensions

设备型号 Equipment model	L	L1	L2	H	A	B
L-P20G	1550	1482	1950	1712	1338	450
L-P30G	1550	1482	1950	1712	1338	450



标准尺寸 Standard dimensions

设备型号 Equipment model	L	L1	H	A	B
L-P36G	2270/1980	2630/2340	1617	1745	1950
L-P46G	2270/1980	2630/2340	1617	1745	1950

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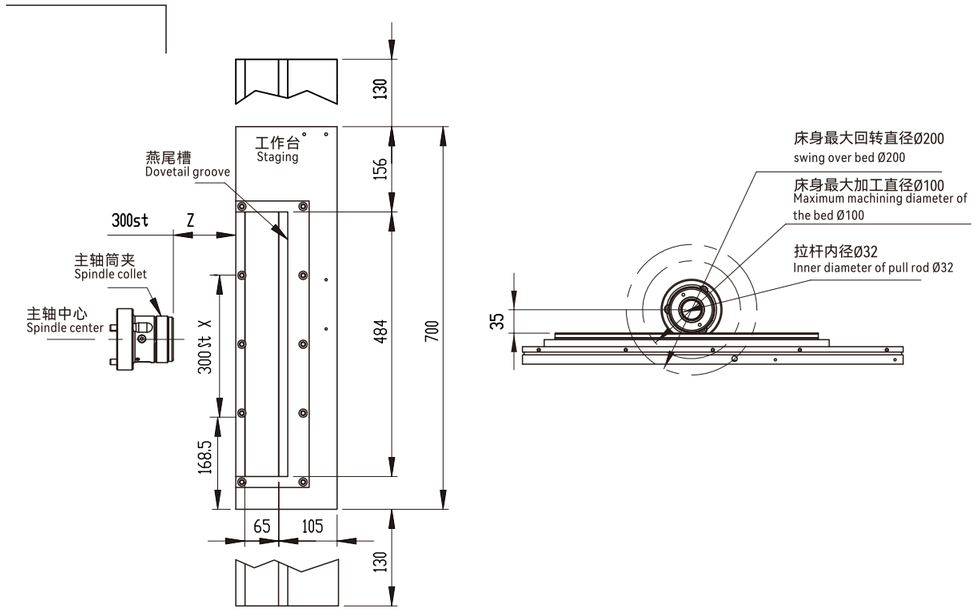
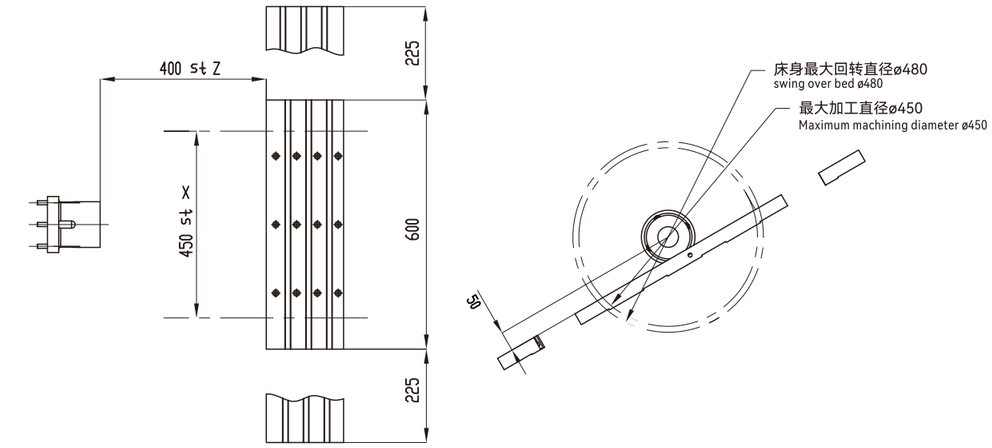
刀具干涉图 Tool interference diagram

L-P20G / L-P30G



L-P36G / L-P46G



参数表 Parameter Table

类 别Category	名 称 Name	L-P20G	L-P30G	L-P36G	L-P46G
加工范围 Machining range	床身上最大回转直径(mm) Maximum swing diameter on the bed (mm)	Ø200	Ø200	Ø480	Ø480
	最大加工直径(轴/盘)(mm) Maximum machining diameter (shaft/disc) (mm)	Ø70/Ø100	Ø70/Ø100	Ø100/Ø450	Ø100/Ø450
	最大加工长度(mm) Maximum machining length (mm)	250	250	400	400
	最大棒料直径(mm) Maximum bar diameter (mm)	Ø20	Ø30	Ø35	Ø45
行程 Travel	X轴行程(mm) X-axis travel (mm)	300	300	450	450
	Y轴行程(mm) Y-axis travel (mm)	/	/	/	/
	Z轴行程(mm) Z-axis travel (mm)	300	300	400	400
主轴 Spindle	输出功率(kw) Output power (kW)	5.5	5.5	5.5/7.5	5.5/7.5
	主轴头形式 Spindle head form	A2-4	A2-4	A2-5	A2-5
	主轴通孔直径（mm） Spindle through-hole diameter (mm)	Ø46	Ø46	Ø57	Ø57
	主轴最高转速(rpm) Maximum spindle speed (rpm)	6000	6000	6000	6000
刀架 Tool turret	刀塔形式 Knife tower form	燕尾槽排刀 Dovetail slot cutter	燕尾槽排刀 Dovetail slot cutter	T型排刀 T-shaped cutter arrangement	T型排刀 T-shaped cutter arrangement
	刀具容量 Tool capacity	6	6	6	6
	车刀刀体尺寸(mm) Turning tool body size (mm)	Ø16	Ø16	Ø20	Ø20
	最大镗刀直径(mm) Maximum boring tool diameter	Ø20	Ø20	Ø25	Ø25
快移速度 Rapid traverse speed	X/Z轴(m/min) X/Zaxis(mm/min)	20/20	20/20	30/30	30/30
进给速度 feed rate	进给速度(mm/min) Feed speed (mm/min)	1-8000	1-8000	1-8000	1-8000
控制系统 Control system	NC形式 NC form	FANUC 0I TF(5) 新代SYNTEC 22TA	FANUC 0I TF(5) 新代SYNTEC 22TA	FANUC 0I TF(5) 新代SYNTEC 22TA	FANUC 0I TF(5) 新代SYNTEC 22TA
排屑形式 Chip removal form		手动排屑 Manual chip removal	手动排屑 Manual chip removal	手动排屑 Manual chip removal	手动排屑 Manual chip removal

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加工案例 Processing Cases

配置表 Configuration Table

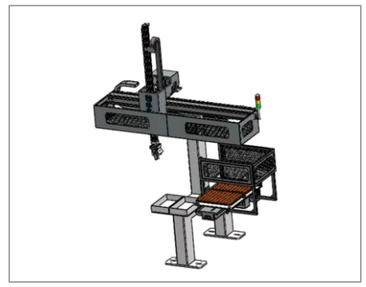
项 目 Project	L-P20G	L-P30G	L-P36G	L-P46G
主轴头A2-4 Spindle head A2-4	√	√	★	★
主轴头A2-5 Spindle head A2-5	★	★	√	√
4寸中空筒夹油缸 4-inch hollow chuck oil cylinder	√	√	★	×
5寸中空筒夹油缸 5-inch hollow chuck oil cylinder	★	★	√	★
6寸中空筒夹油缸 6-inch hollow chuck oil cylinder	×	×	★	√
8工位伺服刀塔 8-inch hollow chuck oil cylinder	×	×	★	★
侧排屑（自动） Side chip removal (automatic)	×	×	★	★
侧排屑（手动） Side chip removal (manual)	√	√	√	√
后排屑（自动） Rear Chip Conveyor (Automatic)	★	★	★	★
棒料机 Bar Feeder	★	★	★	★
自动接料装置 Automatic material receiving device	★	★	★	★
油雾收集器 Oil mist collector	★	★	★	★
高压出水 High pressure water outlet	★	★	★	★
自动门 Automatic Door	★	★	★	★
副主轴 Auxiliary spindle	★	★	★	★
光栅尺 Grating ruler	★	★	★	★
安全门光栅 Safety door light curtain	★	★	★	★

√ 标准配置 ★ 可选配置 × 不可选
√ Standard configuration ★ Optional configuration × Not available

■ 自动车床送料机
Automatic lathe feeding machine

■ 车床送料机
Lathe feeder

■ 机器手
Robot arm



■ 卡盘油缸
Chuck Hydraulic Cylinder