



陕西海力特精密机械有限公司(**HALET**)是集研发、生产、销售高精度数控机床、专用机床、特种机床为一体的高新技术企业,是国内领先的车铣复合机床、数控球面车床专业制造商和服务商。

注册品牌 **HALET** 已被授予陕西省著名商标。

公司强调**精准、高效、卓越**,关注科技创新、技术进步,注重过程控制和细节管理,致力于机床适用性、稳定性、高刚性的研究和应用。

海力特人立足于和合作伙伴构建和谐稳固的协作关系,以实现携手并进、共谋未来的一致目标,全心全意为精密制造企业提供品质一流的设备,矢志不移地满足客户需求,协助客户成功。

企业简介

INTRODUCTION

Shaansi HALET precision machinery co., LTD. (HALET) is the company which include research , production, sales of high precision CNC machine tool, special machine and special machine tool for the integration of high-tech enterprises. The leading CNC Milling Complex and Ultra-precision CNC Lathes, Sphere professional manufacturers and service providers.

Registered brand "HALET" has been awarded the famous brand of shaansi province. The company emphasizes precise and efficient excellence, pay attention to scientific and technological innovation, technology improvement, we pay attention to process control and detail management, Committed to machine applicability, stability, high rigidity of research and application.

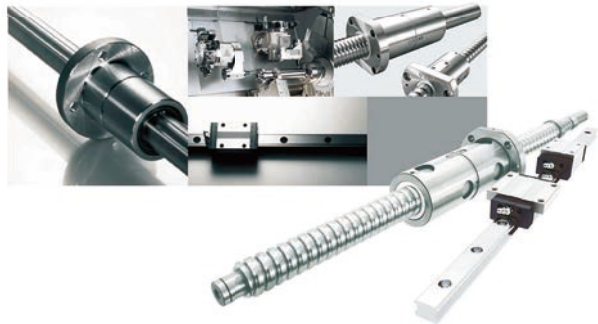
HALET's committed to build a harmonious and stable cooperative relations and partners in order to go hand in hand, and win the future unity of purpose, dedication to precision manufacturing enterprise-class quality equipment, absolutely determined to meet customer needs, to help customers succeed.

品质保障

QUALITY ASSURANCE

专业铸就品质,创新引领未来。每一台海力特机床主要零部件均采用德国、日本、台湾等地的优质进口原件,每一个海力特人都在精神富足、热情真诚的用心制造着。我们强调的是海力特始终如一的高质量生产,非凡卓越的机械性能和稳定持久的机械精度。

Focus on casting quality, innovation leads the future. Every HALET special mechanical main parts are made of Germany, Japan, Taiwan, etc the high quality import the original. Every one in spirit rich and warm sincere intention of creating. We emphasize that makes special consistent high quality production, especially excellent mechanical properties and stability lasting mechanical precision.



设计研发

DESIGN AND DEVELOPMENT

科技是发展之源，创新是活力之本，唯有刻苦钻研，才能迎刃而解，唯有付出每一天的努力，每一次的改进，天不把客户的需求完美的落实到每一处。

稳定是我们设计的基础。

创新是我们工作的目标。

生产客户需要的机床是我们永恒的追求！

Science and technology is the source of development, innovation is the energy. As we know the need that we can change for better. HALET's every day of hard work, every improvement, all the customer demands perfect implement to each place.

Stability is the cornerstone of our design.

Innovation is the goal of our work.

Machine production to customer needs is our eternal pursuit!

支持服务

SERVICES

专注成就事业，用心才能成功。在快速发展的过程中我们将以“技术领先的产品”策略向以“用户为中心”的服务策略转变，从销售机床向提供全面解决方案转变。

海力特销售和技术支持中心致力于通过完善的服务体系，以专业的品质，快速的响应，及时的交付确保让您的精密制造能够享受到技术创新带来的瞩目成效。

Professional achievements, attentively to succeed. In the rapid development of the process we will be advanced technology to product strategy is a center with the user service strategy transformation. From sales machine to provide comprehensive solutions transformation.

Halet Sales and technical support center are dedicated to perfect sales service system. With professional quality, rapid response, timely delivery to make sure your precision manufacturing can share to technology innovation brings Remarkable achievements.



“家电式”的服务理念让您买的放心，用的舒心。
“Home appliance” service concept allows you to buy the rest assured, with enjoyable.

小型精密数控车床系列

HNC-20/30 Series Small High Precision CNC Lathe

HNC-20/30

HNC-20/30系列机床主要零部件均采用德国、日本、台湾等地的优质进口部件，具有高精度、高效率、高刚性等特点。
 ● 强度高、恒应力的铸铁床身确保充分吸收和散热的，保证机床加工精度的稳定性。
 ● 高精度的直线丝杠和直线导轨，重复定位 $\pm 0.001\text{mm}$ ，真正实现 μm 级的精密切削能力。

● 特有的伺服控制加速技术，成功实现高速、高精快速进给和精确定位，生产效率大幅提高。

● 独有的大直径丝杠、磨床级丝杠、大跨距滑枕结构，使此类机床刚性大为改进。
 ● 主轴单元采用前盖多面密封结构，防水性能强，寿命更长，运行可靠稳定。
 ● 自动润滑系统确保每一流润滑油都能精准送达目标区域。

HNC-20/30 series of machine tools main components are used in Germany, Japan, Taiwan, imports of high-quality original, with high precision, high efficiency, high rigidity and other characteristics.

● High strength, low density casting stress can fully absorb the iron bed existing vibration and ensure the stability of precision machining.
 ● High precision ball screw and linear guide, repeatability $\pm 0.001\text{mm}$, truly accurate μm -class cutting feed.

● Specific mechanism and decoupling of the servo control technology, the successful high-speed, high accuracy and fast feed and precise positioning, the production efficiency greatly improved.
 ● Development and application of diverse, hydraulic check, programmable toolhead.

● Intensity control system uses a number of cylinders, friction-free slip ring rotating rapidly intensify body run more smoothly and less longer.

● Automatic lubrication system to ensure that every drop of oil can accurately reach the target area.



加工范围 Capacity	最大回转直径 Swing	$\phi 250\text{mm}$	斜床身倾角 Slanting angle	0°
	刀座直径上顶杆直径 Swing over cross slide	$\phi 100\text{mm}$	冷却液控制 Cooling system	<input type="checkbox"/>
	最大加工直径 Max. turning diameter	$\phi 100\text{mm}$	高压冷却器 High-pressure cooling system	<input type="checkbox"/>
	最大工件长度 Max. turning length	1000mm	自动换刀系统 Auto tool-changer system	<input type="checkbox"/>
主轴 Spindle	最大刀槽直径 Max. bar through-hole	$\phi 80\text{mm}$ / $\phi 80\text{mm}$	主轴单元高度 High Z-axis support system	<input type="checkbox"/>
	工件夹持方式 Workpiece clamping method	气动式夹持 After the pull-off clamping	工具及工件库 Tool & workbin	<input type="checkbox"/>
	主轴转速范围 Spindle speed range	50-8000rpm	排屑机 Chip remover	<input type="checkbox"/>
	主轴规格范围 Spindle size and specifications	系列1A2-3	连接棒 Spindle mandrel	<input type="checkbox"/>
快速进给 Rapid Traverse	X轴快速速度 X-axis rapid traverse	180mm/min	通水头 Coolant	<input type="checkbox"/>
	Z轴快速速度 Z-axis rapid traverse	180mm/min	液压夹具 Hydraulic chuck	<input type="checkbox"/>
	X轴行程 X-axis travel	250mm	刀架罩 Cover	<input type="checkbox"/>
	Z轴行程 Z-axis travel	180mm	刀架罩材料系统 Tool & holder system	<input type="checkbox"/>
行程 Axis Stroke	X轴行程 X-axis travel	250mm	冷却液控制 Cooling system	<input type="checkbox"/>
	Z轴行程 Z-axis travel	180mm	冷却液控制 Cooling system	<input type="checkbox"/>
	主轴电机 Spindle drive motor	2.03 7kW/13.75 kW/17	C轴 C-axis	<input type="checkbox"/>
	进给电机 Feed motor	0.75-1.1kw	精密车轴精密 Precision C-axis shafting	<input type="checkbox"/>
电机 Motor	刀架罩罩壳 Turned in the form	扇形罩式 Shrouded form	动力头 Power head	<input type="checkbox"/>
	刀架规格 Ankle party specifications	16x16	动力头冷却功能 Power head cooling	<input type="checkbox"/>
	最大刀架数量 Number of largest Yung knife	8把	液压夹具 Hydraulic chuck	<input type="checkbox"/>
	冷却液 Cooling water	0.65kw	电器温度调节器 Temperature regulator	<input type="checkbox"/>
其它 Others	气冷马达 Required electric power	60VA	自动开闭 Automatic shutter drive	<input type="checkbox"/>
	机床床身长 *宽 *高) Floor Space	1370x1240x1500mm	刀架罩材料系统 Tool & holder system	<input type="checkbox"/>
	主轴中心高度 Height from floor to spindle center	$\sim 960\text{mm}$	工业标准冷却系统 Industrial cooling system	<input type="checkbox"/>
	机床重量 Mass of machine	$\sim 1150\text{kg}$	多种材料系统 Multi-material holding system	<input type="checkbox"/>

数控系统: ● FANUC ○ SYNTec ○ KND

● 标配 ○ 选装

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小型精密车铣复合数控机床

HNC-30C/30Y Small Precision CNC Milling Complex

HNC-30C/30Y

HNC-30C/30Y多功功能精密车铣复合机床是我公司针对复合加工需求开发的一款产品。

● 独有的大直径丝杠、磨床级丝杠、大跨距滑枕结构，使此类机床刚性大为改进。
 ● 高刚性大功率伺服驱动刀具，静态主轴刚性高，可实现轴大功率车铣。
 ● 助力头主轴进给式结构结合负压气体系密封更保护，彻底解决的水垢问题。
 ● 稳定性分离盘，三轴联动加工，可实现外圆和序、复杂轮廓铣削、打孔、攻丝等加工功能。

● 便于拆卸的高压冷却机构有效提高了工件表面质量。

● 模块化结构，可根据用户要求实现多种快速配置。

HNC-30C/30Y multi-function Precision milling machine is a product developed by the company for complex processing needs.

● Unique large-diameter screw, wide line of rail, the slider large span structures, making such machine greatly improved rigidity.
 ● High-power servo power tools rigid, static spindle locking function can achieve higher-power C-axis milling.

● Power head spindle with vacuum gas lubricated seal structure of dust protection, completely solve the water problems.
 ● Any sub-degree C-axis, three-axis simultaneous machining can be realized shape turning, complex contour milling, drilling, tapping, and other processing functions.

● Easy to cut the high-pressure cooling body run effectively improve the quality of the workpiece surface.

● Modular structure, can be varied according to user need to achieve a flexible configuration.



多样化刀座配置



TYPE 1 (C)



TYPE 2 (C)



TYPE 3 (Y)



TYPE 4 (Y)

加工范围 Capacity	最大回转直径 Swing	$\phi 320\text{mm}$	斜床身倾角 Slanting angle	0°
	刀座直径上顶杆直径 Swing over cross slide	$\phi 120\text{mm}$	冷却液控制 Cooling system	<input type="checkbox"/>
	最大加工直径 Max. turning diameter	$\phi 100\text{mm}$	高压冷却器 High-pressure cooling system	<input type="checkbox"/>
	最大工件长度 Max. turning length	1000mm	自动换刀系统 Auto tool-changer system	<input type="checkbox"/>
主轴 Spindle	最大刀槽直径 Max. bar through-hole	$\phi 80\text{mm}$	工具及工件库 Tool & workbin	<input type="checkbox"/>
	工件夹持方式 Workpiece clamping method	气动式夹持 After the pull-off clamping	排屑机 Chip remover	<input type="checkbox"/>
	主轴转速范围 Spindle speed range	50-8000rpm	连接棒 Spindle mandrel	<input type="checkbox"/>
	主轴规格范围 Spindle size and specifications	系列1A2-3	通水头 Coolant	<input type="checkbox"/>
快速进给 Rapid Traverse	X轴快速速度 X-axis rapid traverse	180mm/min	液压夹具 Hydraulic chuck	<input type="checkbox"/>
	Z轴快速速度 Z-axis rapid traverse	180mm/min	刀架罩 Cover	<input type="checkbox"/>
	X轴行程 X-axis travel	250mm	刀架罩材料系统 Tool & holder system	<input type="checkbox"/>
	Z轴行程 Z-axis travel	180mm	冷却液控制 Cooling system	<input type="checkbox"/>
行程 Axis Stroke	X轴行程 X-axis travel	250mm	冷却液控制 Cooling system	<input type="checkbox"/>
	Z轴行程 Z-axis travel	180mm	冷却液控制 Cooling system	<input type="checkbox"/>
	主轴电机 Spindle drive motor	2.03 7kW/13.75 kW/17	C轴 C-axis	<input type="checkbox"/>
	进给电机 Feed motor	0.75-1.1kw	精密车轴精密 Precision C-axis shafting	<input type="checkbox"/>
电机 Motor	刀架罩罩壳 Turned in the form	扇形罩式 Shrouded form	动力头 Power head	<input type="checkbox"/>
	刀架规格 Ankle party specifications	16x16	动力头冷却功能 Power head cooling	<input type="checkbox"/>
	最大刀架数量 Number of largest Yung knife	8把	液压夹具 Hydraulic chuck	<input type="checkbox"/>
	冷却液 Cooling water	0.65kw	电器温度调节器 Temperature regulator	<input type="checkbox"/>
其它 Others	气冷马达 Required electric power	60VA	自动开闭 Automatic shutter drive	<input type="checkbox"/>
	机床床身长 *宽 *高) Floor Space	1370x1240x1500mm	刀架罩材料系统 Tool & holder system	<input type="checkbox"/>
	主轴中心高度 Height from floor to spindle center	$\sim 960\text{mm}$	工业标准冷却系统 Industrial cooling system	<input type="checkbox"/>
	机床重量 Mass of machine	$\sim 1150\text{kg}$	多种材料系统 Multi-material holding system	<input type="checkbox"/>

数控系统: ● FANUC ○ SYNTec ○ KND

● 标配 ○ 选装

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小型精密数控车床系列

HNC-25/32 Series Small High Precision CNC Lathe

HNC-25/32

HNC-25/32系列精密数控车床是我公司针对金属切削开发的一款产品。

- 超大规格数控设计, 扁式箱体结构, 预留机械臂安装接口, 实现小型零件自动化生产的前沿设备。
- 大直径丝杠, 高精导轨, 大跨度滚珠结构, 标准主轴箱体, 质量优异的刀具夹持。
- 超高等级的深珠丝杠和直线导轨, 重复定位 $\pm 0.001\text{mm}$, 真正实现0.1级的精密切削精度。

- 全密封的内部结构, 最大限度保证导轨, 丝杠免受尘屑侵袭及排屑的污染。
- 合理的结构设计, 宽大的内部操作空间, 后置式车轴结构, 换刀更为方便

HNC-25/32 Series precision CNC lathe is our company's product for heavy cutting demand.

- It has large specification base design, Offset type operation structure and Reserve mechanical arm installation interface. It is the best equipment for small parts automatic production.

- With large diameter screw, wide guide, big span ball structure and standard A4 guide, which are perfect for heavy cutting tool.
- High precision ball screw and linear guide, repeatability $\pm 0.001\text{mm}$, truly accurate 0.1-class cutting feed.
- All steel in protective structure, guarantee cubic rail at maximum limit, screw from cutting field and clearance of the pollution.
- Useful design, wide space for inside operation and rear type tool structure, which are more convenient for discharge the chip.



最大回转直径 Boring	φ312mm	精密切削 Light cutting	○
刀板直径及回转直径 Swing over cross slide	φ790×180mm	淬硬材料 Hard cutting	○
加工范围 Capabilities		高速高精度 High-speed high-precision machining system	○
最大加工直径 Max. turning diameter	φ140mm	自动润滑系统 Automatic Lubricating system	○
最大加工长度 Max. turning length	1000mm	温度补偿 High-temp. auto. compensator system	○
最大刀库容量 Max. bar through-hole	φ270mm / 450mm	刀具及工具架 Tool & toolbin	○
工件夹持方式 Workpiece clamping method	气动式夹持 After the tool, auto-clamping	操作显示屏 Working interface	○
主轴转速范围 Spindle speed range	30-6000rpm	集成的操作台 Operator workstation	○
主轴转速精度 Spindle speed specifications	AD-31A2-4	连接手柄 Remote handrail	○
X轴行程范围 X-axis rapid traverse	180mm	刀具夹头 Tool holder	○
Z轴行程范围 Z-axis rapid traverse	180mm	冷却液头 Coolant	○
行程 Axis Stroke		液压方式 Hydraulic way	○
X轴行程量 X-axis travel	250mm / 1.31 Dmm	手动 Chuck	○
Z轴行程量 Z-axis travel	300mm	刀架配置 Configuration in the form	○
主轴电机 Spindle drive motor	2.85.7kW / 3.75.5kW	配置零件 Part specification	○
进给电机 Feed motor	0.75-1.1kW	配置方式 Configuration in the form	○
刀架形式 Turret in the form	高刚性刀架(12工位/30mm)	配置零件 Part specification	○
刀架规格 Only partly specifications	16x16	配置数量 Number of configurations	1-4种
最大刀库容量 Number of largest Tooling bins	700(60)	配置形式 Configuration in the form	○
冷却器 Cooling motor	0.25kW	配置零件 Part specification	○
气压装置 Pneumatic electric power	0.8V/A	配置数量 Number of configurations	1-4种
机床气吹气 ×宽 ×高 Floor Space	1555x1050x1642mm	配置形式 Configuration in the form	○
机床中心高度 height from floor to spindle center	1022mm	配置零件 Part specification	○
整机重量 Mass of machine	~1800kg (L=1800kg)	配置数量 Number of configurations	1-4种

数控系统: ● FANUC ○ SYNTEC ○ KND

● 标配 □ 选配

◎ 标配 □ 选配

小型精密车铣复合数控机床

HNC-32C/32Y Small Precision CNC Milling Complex

HNC-32C/32Y

HNC-32C/32Y是我公司为了满足小型精密复杂零件性能需求, 提前研发在HNC-32型精密的车床的基础上研发的一款数控级动小规格车铣复合机床。

- 独立Y轴, 配置三把径向动力刀具可同时配置三把轴向动力刀具, 可满足多工位加工, 提高加工效率。
- 超大规格数控设计, 扁式箱体结构, 预留机械臂安装接口, 实现小型复杂零件自动化生产的前沿设备。
- 高刚性大功率轴向动力刀具, 静齿主轴驱动功能, 可实现高精度切削。
- C轴任意分度, 自动取切加工, 可实现外圆和字, 复杂轮廓铣削, 打孔, 发丝等加工功能。

- 模块化结构, 可根据用户需要多样选配刀具和刀架及铣削刀具。

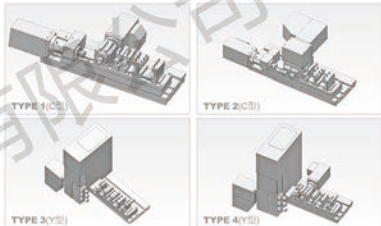
HNC-32C/32Y is an Axis 4 company in order to meet the small, sophisticated rigid parts turning, milling demand for research and development on the basis of the HNC-32 precision CNC lathe small precision milling machine.

- Independent Y axis, to configure three radial power tool can also be perfect the three axial power tool, can meet the multi-position turning, drilling requirements.
- Large size of the base design, offset operation structure, to reserve the substructure mounting interface is the best equipment for the automated production of small complex parts.
- High the rigid power servo motor tool, static spindle driving function, can realize high precision cutting.
- C axis of any indexing, four-axis simultaneous machining shape lathe, the complex contour milling, drilling and tapping function.

- Modular structure, can be flexibly configured according to user needs and diverse turning tools and milling tools.



多样化刀库配置



最大回转直径 Boring	φ312mm	精密切削 Light cutting	○
刀板直径及回转直径 Swing over cross slide	φ790×180mm	淬硬材料 Hard cutting	○
加工范围 Capabilities		高速高精度 High-speed high-precision machining system	○
最大加工直径 Max. turning diameter	φ140mm	自动润滑系统 Automatic Lubricating system	○
最大加工长度 Max. turning length	1000mm	温度补偿 High-temp. auto. compensator system	○
最大刀库容量 Max. bar through-hole	φ270mm / 450mm	刀具及工具架 Tool & toolbin	○
工件夹持方式 Workpiece clamping method	气动式夹持 After the tool, auto-clamping	操作显示屏 Working interface	○
主轴转速范围 Spindle speed range	30-6000rpm	集成的操作台 Operator workstation	○
主轴转速精度 Spindle speed specifications	AD-31A2-4	连接手柄 Remote handrail	○
X轴行程范围 X-axis rapid traverse	180mm	刀具夹头 Tool holder	○
Z轴行程范围 Z-axis rapid traverse	180mm	冷却液头 Coolant	○
行程 Axis Stroke		液压方式 Hydraulic way	○
X轴行程量 X-axis travel	250mm / 1.31 Dmm	手动 Chuck	○
Z轴行程量 Z-axis travel	300mm	刀架配置 Configuration in the form	○
主轴电机 Spindle drive motor	2.85.7kW / 3.75.5kW	配置零件 Part specification	○
进给电机 Feed motor	0.75-1.1kW	配置方式 Configuration in the form	○
刀架形式 Turret in the form	高刚性刀架(12工位/30mm)	配置零件 Part specification	○
刀架规格 Only partly specifications	16x16	配置数量 Number of configurations	1-4种
最大刀库容量 Number of largest Tooling bins	700(60)	配置形式 Configuration in the form	○
冷却器 Cooling motor	0.25kW	配置零件 Part specification	○
气压装置 Pneumatic electric power	0.8V/A	配置数量 Number of configurations	1-4种
机床气吹气 ×宽 ×高 Floor Space	1555x1050x1642mm	配置形式 Configuration in the form	○
机床中心高度 height from floor to spindle center	1022mm	配置零件 Part specification	○
整机重量 Mass of machine	~1800kg (L=1800kg)	配置数量 Number of configurations	1-4种

数控系统: ● FANUC ○ SYNTEC ○ KND

● 标配 □ 选配

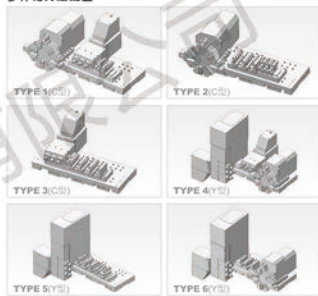
◎ 标配 □ 选配

斜床身精密数控机床系列

HNC-36/36C/36Y Inclined Lathe CNC Lathe Series

HNC-36/36C/36Y

多样化刀座配置



	机 床 型 号	HNC-36	HNC-36C	HNC-36Y
加工能力 Capacity	最大回转直径 Swing	φ400mm	φ400mm	φ400mm
	最大加工直径 Max. turning diameter	φ380mm	φ380mm	φ380mm
行程 Stroke	最大加工长度 Max. turning length	200mm	200mm	200mm
	最大工件长度 Max. bar through-hole	φ40mm	φ40mm	φ40mm
主轴 Spindle	工件材料切削速度 Cutting method	CL 切削速度 8~18 m/min	CL 切削速度 8~18 m/min	CL 切削速度 8~18 m/min
	主轴转速范围 Spindle speed range	300~4500rpm	30~4500rpm	30~4500rpm
快速进给 Rapid traverse	主轴结构规格 Spindle and specifications	AD-5	AD-5	AD-5
	X轴快速速度 X-axis rapid traverse	20m/min	20m/min	20m/min
行程 Stroke	Z轴快速速度 Z-axis rapid traverse	24m/min	24m/min	24m/min
	Y轴快速速度 Y-axis rapid traverse	12m/min	12m/min	12m/min
刀架 Axe table	X轴行程 X-axis travel	430mm	520mm	540mm
	Z轴行程 Z-axis travel	260mm	260mm	260mm
电机 Motor	Y轴行程 Y-axis travel			130mm
	配置形式 Configuration in the form		卧式/立式	卧式/立式
动力单元 Power Unit	配置数量 Number of configurations	1组	3组	3组
	驱动功率 Drive power	0.85~1.3kW	0.85~1.3kW	0.85~1.3kW
电气容量 Electric Capacity	夹持规格 Clamping Specifications	Ø20/30	Ø20/30	Ø20/30
	最大转速 Maximum speed	3000/5000rpm	3000/5000rpm	3000/5000rpm
电机 Motor	主轴电机 Spindle drive motor	5.57 kW	5.57 kW	5.57 kW
	进给电机 Feed motor	1.3kW	1.3kW	1.3kW
尺寸 Others	刀架形式 Turret in the form	刀架/刀座/刀盘/刀架/刀座/刀盘	刀架/刀座/刀盘/刀架/刀座/刀盘	刀架/刀座/刀盘/刀架/刀座/刀盘
	刀架规格 Knife party specifications	20x20	20x20	20x20
尺寸 Others	最大刀刀数量 Number of largest knife	12把	12把	15把
	冷却液切削液冷却器 Cooling liquid	0.25kW	0.25kW	0.25kW
电气容量 Required electric power	电气容量 Required electric power	13kW	13kW	13kW
	机床尺寸(长×宽×高) Floor Space	2280×1540×1700mm	2280×1540×1700mm	2280×1540×1700mm
机床重量 Mass of machine	主轴中心高度/height from floor to spindle center	~1060mm	~1060mm	~1060mm
	机床重量 Mass of machine	~2600kg	~2600kg	~2700kg

系统系列: ○ FANUC ● SYNTEC ○ KND ● 其他 ○ 其他



Diversified configuration, Modular structure, High cost performance. To reach you today and the future demand for the cutting

多样化配置 模块化结构 超高性价比
达成您今日及未来的切削需求



HNC-36系列精密数控机床系列是公司根据细分市场需求,把握机床发展机遇,应用行业先进技术,结合多年制造经验精心打造的一款高性价比的加工利器。主要零部件均采用德国、日本、台湾等地的优质进口原件,产品设计紧跟时代的需求,每走一步都向着自动化的方向迈进。

◆45度整体斜床身结构,操作方便,排屑顺畅,运行可靠。

◆工位进刀刀库就近换刀,定位准确,效率高。

◆高精度宽幅导轨,多滑块大跨距设计,动态响应迅速,精度持久稳定。

◆多样化配置,模块化结构,达成您今日及未来的切削需求。

HNC-36 Inclined lathe CNC lathe series is our company according to the market demand, grasp development trend of machine tool, advanced technology industry, with many years of manufacturing experience in machine tool to build a high performance cost ratio. Main parts are made of high quality imported components from Germany, Japan, Taiwan and other places, the product design condenses the needs of the times, every step toward automation industry forward.

◆45 degree whole slant bed structure, convenient operation, smooth chip removal, reliable operation.

◆8 station hydraulic turret nearby tool change, accurate positioning, high efficiency.

◆High precision wide track, multi slide span design, rapid dynamic response, accuracy and stability.

◆Diversified configurations, modular structure, reach you today and future cutting demand.

斜床身精密数控车床

HNC-45 Inclined lathe CNC lathe

HNC-45

HNC-45 是一款专门针对中小型轴类零件加工

开发的一款床身自转数控车床。

★ 45 度斜床身结构，操作方便，排屑顺畅。

★ 12 工位伺服刀塔，定位准确，换刀速度快。

★ 刚性设计，满足重切削需求。

★ 精密主轴经动平衡测试，可满足高速旋转，主轴装夹口密封好，大大提升主轴的密封性能。

★ X、Z 方向丝杠杠均经过预拉装配，可满足机床高速、长期稳定工作。

★ 液压行程尾座，可满足多种轴类零件加工。



HNC-45 is a slant bed developed by my

company for small and medium-sized disk

parts processing precision CNC lathe.

★ 45 degree slant bed structure, easy to

operate and smooth chip evacuation.

★ 12-station hydraulic turret, accurate

positioning, fast tool change.

★ Rigid design, to meet the requirements of

the heavy cutting.

★ Precision spindle by the balancing test, to

meet the high-speed rotation, the spindle

installation of imported seal ring, and greatly

enhance the sealing performance of the

spindle.

★ X、Z-axis ball screw assembly after pre-

stretch to meet the machine high-speed, long-

term stability.

★ Hydraulic programmable tailstock, can

meet a variety of shaft parts processing.



最大回转直径 Swing	Φ450mm	照明设备 Lighting device	冷却系统 Cooling system
最大加工直径 Max. turning diameter	Φ450mm	高压冷却系统 High-pressure cooling system	自动换刀装置 Automatic tooling system
最大加工长度 Max. turning length	450mm	最大回转直径 Max. bar through-hole	Φ450mm
最大工件材料 Max. bar through-hole	Φ450mm	工件夹持方式 Workpiece clamping method	气动夹头系统 Pneumatic chuck system
主轴转速范围 Spindle speed range	300-15000rpm	工具夹持系统 Tool holder system	气压平衡系统 Air pressure balancing system
主轴结构形式 Spindle and specifications	AJ-81A2-4	换刀装置 Tooling mechanism	12 工位 12-station
快速进给速度 X-axis rapid traverse	180mm/min	换刀方式 Tooling method	气动方式 Pneumatic mode
Z轴快速进给 Z-axis rapid traverse	200mm/min	换刀方式 Hydraulic way	液压方式 Hydraulic way
X轴行程 X-axis travel	230mm	主轴行程 Spindle travel	Φ450mm
Z轴行程 Z-axis travel	500mm	最大回转直径 Max. rotation	165mm
最大回转直径 Max. rotation	165mm	尾座行程 Tailstock travel	72mm
尾座行程 Tailstock travel	72mm	尾座规格 Specification	MT4
主轴电机 Spindle motor	3.57 kW	主轴电机 Spindle motor	1.8kW
变频电机 Inverter motor	1.8kW	刀架结构 Turret in the form	液压/气动 Hydraulic / Pneumatic
刀架结构 Turret in the form	液压/气动 Hydraulic / Pneumatic	刀架行程 Knife partly specifications	25x20 25x25
刀架行程 Knife partly specifications	25x20 25x25	最大回转直径 Max. rotation of largest Yung knife	128
最大回转直径 Max. rotation of largest Yung knife	128	冷却装置 Cooling water	5.5kW
冷却装置 Cooling water	5.5kW	电气容量 Required electric power	12.6kVA
电气容量 Required electric power	12.6kVA	机床外形长 × 宽 × 高 Floor Space	2200 × 1800 × 2100mm
机床外形长 × 宽 × 高 Floor Space	2200 × 1800 × 2100mm	主轴中心高度 Height from floor to spindle center	~1100mm
主轴中心高度 Height from floor to spindle center	~1100mm	机床重量 Mass of machine	~3200kg

数控系统: ○ FANUC ● SYNTEC ○ KND

● 8 轴 ● 5 轴

超精密数控球面车床

HQ-50P/80P Ultra-precision CNC Lathes Sphere

HQ-50P/80P

HQ-50P/80P 超精密数控球面车床是我公

司针对市场需求自主研发的一款专门加工精

密球类零件的专用机床。该产品采用力

特机床结构精度高、刚性佳、稳定性好的品

质，同时还具有下述特点：

★ 大直径丝杠、宽齿丝杠、大跨距滚珠结构，使机床刚性大幅提高。

★ 高精度小口径滚珠丝杠进给系统，定位

准确。

★ 基于球面数学模型自主研发坐标转换，

回转精度高，纵向游隙和定位精度均达到

角秒级，加工的球面轮廓精度可达

0.002mm。

★ 针对球杆、前拉式精密夹头配套定位系

统，零件更换快捷、方便。

★ 针对球杆、精密滤芯轴配置定位系统，

零件加工位置精度得到有效保证。



HQ-50P/80P ultra-precision CNC lathes

sphere is Shanghai HALET Precision

Machinery Co., Ltd. for the market demand

for independent research and development of

a special class of spherical parts machining

precision special machine tools. The product

is used to maintain HALET an efficient

machine, rigidity, stability, good quality, and

has the following characteristics:

★ Large diameter screw, wide line rail span

stiff structure, so that the machine rigidity

greatly improved.

★ X to the precision of small lead ball screws,

feed and smooth, accurate positioning.

★ Specially developed mathematical models

based on spherical polar coordinates

traceable, rotary precision U-level, lateral

clearance and positioning accuracy are up to

arcsecond level, processing of the spherical

profile of up to 0.002mm.

★ For the club, after pull after positioning

system with a precision chuck, replacement

parts quickly and easily.

★ For the ball, precision positioning system

configured as standard, precision parts

machining.



最大回转直径 Swing	Φ250mm	照明设备 Lighting device	冷却系统 Cooling system
最大加工直径 Max. turning diameter	Φ250mm	高压冷却系统 High-pressure cooling system	自动换刀装置 Automatic tooling system
最大加工长度 Max. turning length	Φ250mm / L=180mm	最大回转直径 Max. bar through-hole	Φ250mm
最大工件材料 Max. bar through-hole	Φ250mm	工件夹持方式 Workpiece clamping method	气动夹头系统 Pneumatic chuck system
主轴转速范围 Spindle speed range	50-5000rpm	工具夹持系统 Tool holder system	气压平衡系统 Air pressure balancing system
主轴结构形式 Spindle and specifications	AB-4	换刀装置 Tooling mechanism	12 工位 12-station
快速进给速度 X-axis rapid traverse	80mm/min	换刀方式 Tooling method	气动方式 Pneumatic mode
Z轴快速进给 Z-axis rapid traverse	100mm/min	换刀方式 Hydraulic way	液压方式 Hydraulic way
X轴行程 X-axis travel	80mm	主轴行程 Spindle travel	Φ250mm
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最大回转直径 Max. rotation of largest Yung knife	128	冷却装置 Cooling water	5.5kW
冷却装置 Cooling water	5.5kW	电气容量 Required electric power	8.1kVA
电气容量 Required electric power	8.1kVA	机床外形长 × 宽 × 高 Floor Space	1800 × 1300 × 1300mm
机床外形长 × 宽 × 高 Floor Space	1800 × 1300 × 1300mm	主轴中心高度 Height from floor to spindle center	~1040mm
主轴中心高度 Height from floor to spindle center	~1040mm	机床重量 Mass of machine	~2000kg
机床重量 Mass of machine	~2000kg	换刀装置 Tooling mechanism	12 工位 12-station

数控系统: ○ FANUC ● SYNTEC ○ KND

● 8 轴 ● 5 轴

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精深之道
皆由孜孜求索

The vast momentum
Stems from profound knowledge
Profound truth
Because diligently quest

产品手册
PRODUCT
HANDBOOK
专业高精密机械制造服务商

陕西海力特精密机械有限公司

SHAANXI HALET PRECISION MACHINERY CO., LTD

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