



EDHM40S系列大孔径数控珩磨机

EDHM40S series large-aperture CNC honing machine

强力、高效珩磨加工
High speed and precision honing processing

- 机床整体架构采用单立柱，整体铸件结构，确保了机床的高刚性和高稳定性。
- 机床冷却系统为循环冷却，采用双油箱设计，磁分式纸带过滤机两级过滤，并使用油冷机强制冷却。
- 主轴往复和旋转运动采用高性能伺服电机控制，速度可实现同步控制，响应速度快。
- 珩磨砂条涨缩装置为双进给结构，采用伺服电机和液压比例控制技术实现压力闭环控制。
- 机床工作台采用液压或伺服移动工作台，定位精度高。
- 采用高性能运动控制器，运行稳定可靠。
- 集成操作平台，配置TFT彩色液晶触控面板。专为珩磨加工定制的人机界面更具人性化。
- 集中润滑系统间歇供油，延长滑动部件使用寿命。

- The overall structure of the machine tool adopts single column and integral casting structure, which ensures the high rigidity and stability of the machine tool
- Machine tool cooling cycle cooling system, dual fuel tank design, magnetic tape filter two-stage filtration fraction, and an oil cooler forced cooling.
- The reciprocating and rotating movement of the main shaft is controlled by a high-performance servo motor. The speed can be synchronously controlled and the response speed is fast.
- Honing extension system is in double-feed design, Adopt servo motor and hydraulic proportional control technology to realize pressure closed-loop control.
- The machine tool workbench adopts hydraulic or servo moving workbench with high positioning accuracy.
- The machine is controlled by high-performance motion controller, stable and reliable operation.
- Integrated platform, with TFT liquid crystal color touch panel. The human-machine interface especially made for honing shows humanistic feature.
- Intermittent oil lubrication system, to extend the service life of the sliding member.

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EDHM40S series large-aperture CNC honing machine

规格参数

Specifications parameters

项目Item	EDHM30S	EDHM40S	EDHM50S
珩孔直径范围 Honing diameter	Φ150mm~Φ300mm	Φ150mm~Φ400mm	Φ200mm~Φ500mm
主轴最大往复行程 Max. stroke	1250mm	1500mm	2800mm
最大珩孔深度 Max. honing depth	780mm	1200mm	2400mm
主轴旋转方式 Spindle rotation mode	伺服电机，配减速机 Servo motor, with reducer		
主轴转速范围 Spindle speed	10-200r/min		
主轴往复形式 Stroke mode	伺服电机往复，滚珠丝杠线轨传动 Servo motor, ball screw, Line rail		
主轴往复速度 Reciprocating speed	2.5-20m/min		
珩磨头进给方式 Honing feed mode	液压比例定压双进给 Hydraulic proportional constant pressure dual feed		
工作台驱动方式 Table driver mode	移动工作台 Mobile Workbench		
工作台尺寸 Dimension of table	700X1200mm	700X1600mm	1000X1000mm
工作台行程 Workbench stroke	600mm	800mm	650mm
加工精度 Honing accuracy	圆柱度Cylindricity: ≤0.02mm, 粗糙度Roughness: Ra0.2 μm		
电气控制系统 CNC system	欧姆龙PLC，运动控制器 Omron Motion Controller		
液压系统 Hydraulic unit	2.2KW变量泵，配风冷机 2.2 KW variable pump, air cooler		
冷却系统 Cooling unit	分离水箱、磁辊纸带两级过滤恒温冷却系统、配油冷机 Separate tank, magnetic drum 2-stage paper filter, constant temperature cooling system, with oil cooler		
测量系统 Measuring system	选配，加工过程中实现在线自动测量 Optional, realizing online automatic measurement during processing		
珩磨头及珩磨连杆 Honing head and connection rod	双进给珩磨头，珩磨砂条涨缩压力分级可控 Double-feed honing head, controllable extension/retraction pressure of honing sticks in different stages		
珩磨夹具 Honing fixture	下压式油缸 clamping cylinder		
机床噪声Machine noise	<75db		
机床颜色Machine color	机座：深灰色、其他：白色 Base: dark grey; other: white		
机床总功率Total power	35KVA	40KVA	50KVA
机床净重Net weight	13000KG	15000KG	17000KG
机床外形（长×宽×高） Dimensions (L×W×H)	2450x2340x5300 mm	2650x2640x5600 mm	1815x3330x8290 mm