



机床用途与性能特征

- 本机床是为LED蓝宝石行业精心设计的数控外圆平面磨 床,适用于LED蓝宝石晶棒的外圆及OF的磨削,机床上 配置A向定向仪,故晶棒在一次装夹后可顶磨外圆,定 向OF面的磨削,提高了产品的生产率,保证了产品的质量。
- 本机床数控系统为西门子802DSL系统,四个直线轴,一 个回转轴。
- 机床配置外圆砂轮架用于磨削晶棒的外圆柱面, 同时还设 计有立式磨头,用于定向后磨削晶棒的OF面。
- 机床带有A向定向仪,晶棒外圆磨好后可直接定向,定向 仪及立式磨头分别装于立柱的两侧, 晶棒定向后, 可直接 磨削OF面消除了晶棒回转的误差。
- 工作台、横进砂轮架、立式磨头拖板及定向仪拖板均有伺 服电机滚珠丝杆拖动,头架为伺服电机直拖。

Aplications ans structural features

- The machine is a kind of CNC Plane Grinding Machine specially clamped. Therefore, output and quality of production is definitely proved.
- This machine adopts SIEMENS 802DSL CNC system, four linear axis, one rotor.
- head is to grind OF surface after fixing direction. The machine owns A-direction orientation device, crystal bar can
- to eliminate tolerance of bar rotation.
- Worktable, horizontal feeding wheel frame, vertical grinding head motor ball screw; headstock is driven by servo motor directly.



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技术规格参数 Specifications and Technical Parameters

磨削直径Grindingdiameter
最大磨削长度Max. grindingength
中心高Centerheight
最大工件重量Max. weight of ingot
工作台最小进给量Min.feeding of work table
砂轮线速度Wheel linear velocity
外圆砂轮尺寸External grinding wheel size
平面砂轮尺寸Plane grinding wheel size
头架主机转速Turning speed of headstock mai
头架主轴内锥孔Taper bore of head stock spin
磨架滑板最大进给量Max. feeding of mill frame
磨架滑板最小进给量Min.feedingof millframe s
磨架快速移动速度Fast moving speed of mill fra
冷却水泵流量Flow of cooling pump
机床外形 (长×宽×高) Overall dimensions(L×

磨削精度Grinding accuracy 圆度Roundness 表面粗糙度Surfaceroughness



会和线 金刚线 dam<u>ond wi</u>re da<u>mond w</u>ire WSK031教栏放宝石参工位 hyper<u>aulie top grindleg</u> a 车线开方针 (截断)、 \ 货车台晶体 Sapphire crysta · 御柄 diek stiek GK\$5730/21FD萤尘(数性或断机(线务) GK\$5730/21ED ONO Sapphire Cithing Machine (cutting)

designed for LED Sapphire Industry, which is suitable for grinding outer circle and OF surface of LED sapphire crystal bar. Furthermore, machine is matched with A-direction orientation device, so crystal bar can be external grinded on top and OF surface after

External cylindrical grinding wheel rack is equipped for grinding outer cylindrical surface of crystal bar. Moreover, vertical grinding

be oriented directly after grinding excircle. Orientation device and vertical grinding head separately mounted at two sides of column. After orientation, OF surface of crystal bar can be grinded directly

carriage and orientation device carriage are all driven by servo

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	Φ2"~6"
	400mm
	125mm
	50kg
	0.005mm
	35m/s
	400×22×203mm
	Φ100×50×Φ50
in motor	0~100r/min(无级) (stepless)
ndle	4号莫氏锥度(Morse'staperNO.4)
eslide	150mm
slide	0.001mm
ame	5m/min
	50L/min
×W×H)	300×1620×2865mm

≤0.003mm

≤0.2µm

