

WSK056C数控单晶硅金刚线高速截断机



设备用途与性能特征

- 本设备为金刚线单线切割机，主要用于太阳能行业硅材料的切割；
- 采用CNC控制技术的一体化PC机，人机界面采用了触摸屏；设备布局合理，机械强度高而且热稳定性好，收、放线室采用全封闭不锈钢设计，外表美观；
- 优化张力控制系统，利用高张力切割，保证切割的质量及效率；
- 设计模块化，耗线少、耗材少、更高效。
- 收放线机构设计成可分离式，即卷线线盘在需要换线时可直接在收放线机构上拆下，换上新的卷线线盘，拆换方便，省时省力，对金刚线不造成任何损伤。
- 切割方法采用切割头架垂直升降，双导轨单丝杆移动进给控制，控制精度高。
- 机床三工位设计，可同时加工工件： $\varphi 320 \times 4500s$ 甚至更长工件3根。每刀切割时间一般约为12分钟，具体视硅块的质量而定。

Application and features

- This equipment is a diamond single wire cutting machine, which is used for cutting silicon material in PV Industry.
- Applies to integrated PC machine of CNC control technology and human-computer interface touch screen.
- This equipment is rational layout, high mechanical strength and excellent thermal stability. The receiving and releasing room applies full-closed stainless steel design and perfect appearance.
- Optimize tension control system, utilize high-tension cutting, ensuring cutting quality and efficiency.
- Design modularization, less line consumption, less consumables, higher efficiency.
- Retractable mechanism is designed detachable, that means coil wire can be disassembled directly from retractable mechanism when changing wire. Save time and labor, no damage for diamond wire.
- The cutting method adopts vertical lifting of cutting head frame, double guide rail and single screw moving feed control, with high control precision.
- Design three station and the work piece can be processed at the same time.: $\varphi 230 \times 4500$ and even longer work piece. The cutting time is about 12 minutes depending on the quality of the silicon block.

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WSK056C数控双工作台单晶硅金刚线剖方机规格参数

Specification of WSK056C CNC monocrystalline silicon diamond wire high speed cutting machine

加工工件参数 work piece parameter

规格 Specification	φ210~φ320×4500
长度 Length	1000mm(max)

主要参数 main parameter

钢线芯线径 core wire diameter	0.28-0.45mm
切割行程 cutting stroke	最大420 (切割头垂直方向)
切割速度 cutting speed	0.01-20mm/min (可设定) (configurable)
快速移动 fast move	150mm/min

配套设施 matched facility

压缩空气接口 compressed air interface	φ12mm, 60L/min, 0.5~0.7MPa
冷却水接口 cooling water interface	φ38内径软管, 15L/min matched inner diameter hose
排气接口 exhaust interface	DN110, 250m ³ /h

能源供给 power supply

电源连接 power connection	380V,50HZ
最大功率 max . power	42KW

外形尺寸 outline size

机床外形尺寸 (长×宽×高) equipment size (L*W*H)	3820×3550×2400mm
机床重量 weight	≈ 7200kg

设备示意图 sketch

