WSK063

半导体晶圆切片机

WSK063 SiC slicing machine

设备用途和特性

- 本机用于结晶用半导体行业，用于半导体晶棒的切片，是半导体行业生产厂家的优选设备。
- 本机特点：
- 1、两个钢线导轮驱动，收（放）线驱动，导轮（放）线驱动，收线驱动同步。
- 2、钢线张紧力的检测控制是通过伺服电机为（位置）。
- 3、工件进给由伺服电机通过滚珠丝杠带动，速度大小与钢线的导轮速度相匹配。
- 4、切削液的搅拌与输送。切削液管道以及冷却器以及及计量器、与切片速度相匹配。
- 5、本机床为高新技术集中的产品。

Applications ans structural features

- the machine is used for cutting Semi-conductor bar, which is main processed processing equipment. It has max dimension of cross section 330mm, the minimum thickness of section 0.2mm, adjust processing procedure, it may cut 130*230 section at one clamping. the optimized equipment for most semi-conductor manufacturers.
- features:
- two wire guide wheel drive, spool, Copy wheel drive, clamp drive, all of wire drive, synchronous.
- detection control of wire tension of wire be controlled by servo motor by servo motor (constancy)
- workpiece feeding is driven by servo motor, transmission ball screw, feed rate is matched with guiding speed of wire.
- radiation and conveying of cutting fluid. Cutting fluid pipe can reach up constant temperature through heat exchanger, matching the slicing rate.
- this machine is an integrated high-tech product.

技术规格参数 Specifications and Technical Parameters

工件 workpiece	
横断面 cross section	≤330mm
长度 length	230mm~1000mm
厚度 thickness	≥0.200mm（必须调整制程must adjust manufacturing process）
切割速度 cutting rate	
线速度 linear speed	最大 max 50m/s
快速移动 fast move	200mm/min
工作行程 working stroke	最大MAX.385mm
钢线 wire	
芯线径 diameter of core wire (external diameter)	0.035~0.400mm
钢线长度 length of wire	按线轮而定 according to wire wheel
钢线方向 direction of wire	前进或后退切割 forward or backward/double directional cutting
预张力 pre-tension	最大50N（常规钢线直径Φ而定）max 50N (according to diameter of wire)
导轮 guide wheel	
直径 diameter	Φ192mm
长度 length	662mm
个数 number	3
主电机功率 main motor power	最大 max 4x30KW
轴距（左右 wheelbase (left & right)）	540mm
轴距（上下） wheelbase (up & down)	450mm
导线偏心轮 offset cone	
直径 diameter	160mm
个数 number	2x3(6)
卷绕线盘 winding coil	
卷绕轴工作高度 working height of winding shaft	1355mm
卷绕线盘 winding coil	WSK02762-21-201
切削液供给 cutting compound supply	
切削液容量 capacity of cutting fluid	300L
冷却液温度 temperature constant of cutting fluid	可选择设定温度 optional preset temperature
完成切片率 slicing rate	最大MAX. 12000mm/h可调整，使用流量计测量显示 measure, measure with flow meter and display
冷却水流入温度 inflow temperature of cooling water	
控制系统 control system	
类型 type	SPS控制器 系列内置PC的SPS controller S7 series with integrated PC
供货商 supplier	西门子 (Siemens)
操作面板 operation panel	平板触控显示屏 touch screen 15
外观尺寸及总重量 outline dimension and total weight	
长度 length	4470~4470mm
宽度 width	2170mm
高度 height	2503mm
总重量 total weight	2300~2700kg

由于产品不断创新，本资料仅供参考，如有修改恕不通知，本公司保留最终解释权。
As products are improved, the above specifications are for reference only. Without notification, we company reserves the final explanation rights.