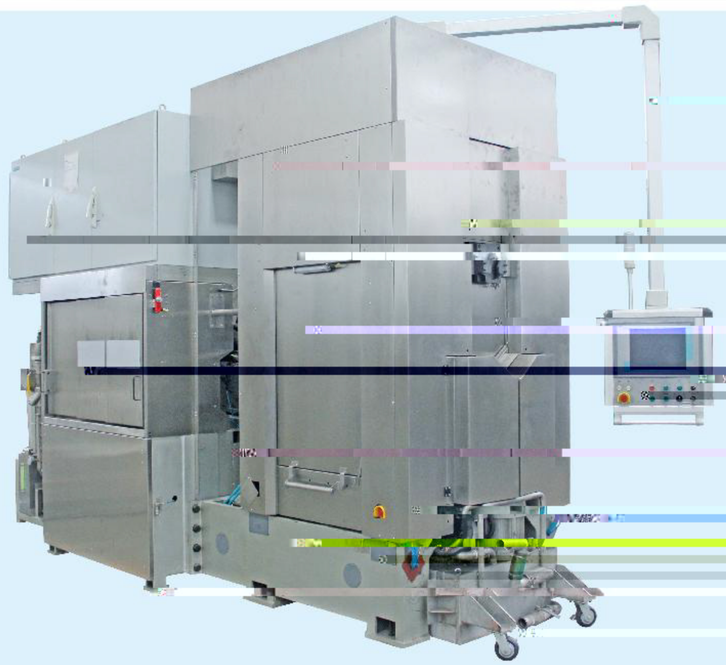
WSK063...

半导体晶圆切片机

WSK063 SiC slicing machine



设备用途和特性

- 本机床适用于[illegible]业，用于半导体晶棒的切片，是半导体[illegible]的选设备。
- 本机床特点：
- 1、两个钢线导轮驱动，收（放）线驱动[illegible]线驱[illegible]
- 2、钢线张紧力的控制是通过[illegible]
- 3、工件进给由伺服电机通过[illegible]钢线的切割速度和工[illegible]
- 4、切削液的搅拌与输送。切削液[illegible]及计量器计量，与冷却[illegible]
- 5、本机床为高新技术集中的产品。

Applications and Features

- the machine is used for cutting Semi-conductor bar, which is main processed processing equipment. Under max dimension of cross section Φ330mm, the minimum thickness of section 0.2mm, adjust processed procedure, it may "cut" 30 [illegible] at one clamping, the optimized equipment for semi-conductor manufacturers.
- features:
- two wire guide wheel drive mode, "pay off" drive, "cable drive", all or [illegible] three [illegible] must be synchronized.
- detection control of wire tension of [illegible] be controlled by servo motor [illegible] (constancy)
- [illegible] rate is motor [illegible] guiding speed of wire.
- [illegible] and conveying of cutting fluid. Cutting fluid pipe can reach up constant temperature through heat exchanger, metal [illegible] 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	≤Φ330mm
长度 length	2×30mm；1×60mm
厚度 thickness	≥0.200mm（必须调整制程 must adjust manufacturing process）
切割速率 cutting rate	
线速度 linear velocity	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)	0.05-0.25-0.40mm
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（根据线径） max 50N (according to diameter of wire)
导轮 guide wheel	
直径 diameter	Φ192mm
长度 length	462mm
个数 number	3
主电机功率 main motor power	最大 max 3×30KW
轴距（左右）wheelbase (left & right)	400mm
轴距（上下）wheelbase (up & down)	450mm
线偏移 offset of wire	
直径 diameter	
个数 number	2×3(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	WSK027S3-21-301
切削液供给 cutting compound supply	
切削液流量 capacity of cutting rate	300L/min
恒温控制 constant temperature control	可选择预设温度 optional preset temperature 20-70℃
最大切削速率 cutting rate	最大MAX 1200g/h 自动调整，预留显示与控制接口 measure with flow meter and display
冷却液温度 inflow temperature of cooling water	
控制系统 controlling system	
类型 type	SPS控制器 PC/PLC/SPS controller S7 series with integrated PC
供货商 supplier	西门子 (Siemens)
外观尺寸及总重量 outline dimension and total weight	
长度 length	4470mm 4470mm
宽度 width	2170mm 2170mm
高度 height	2563mm
总重量 total weight	约13000kg

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