

WSK063 SiC slicing machine (slurry cutting)



- the machine is used for cutting semiconductor bar which is main matched processing equipment. The max dimension of cross section $\Phi 330\text{mm}$, the minimum thickness of section 0.2mm . adjust processing procedure, it may cut 1300-2200 sections in a one day. the optimized equipment for semiconductor manufacturers.
- features.
 - two wire guide wheel drive, two servo drive with scale drive will not "these apply servo drive and must be synchronized."
 - detection control of wire tension will be controlled by servo motor (constant tension)
 - workpiece feeding is driven by servo motor through ball screw. feed rate is matched with guiding speed of wire.
 - agitation and conveying of cutting fluid. Cutting fluid pipe can reach up constant temperature through heat exchanger. The stable temperature of the solution is 20-25°C.
 - this machine is an integrated high-tech product.

横断面 cross section	≤Φ330mm
长度 length	2×300mm; 1×600mm
厚度 thickness	≤0.200mm (必须调整制造 must adjust manufacturing process)
切割速率 cutting rate	
线速度 linear velocity	最大 max. 20m/s 可调 adjustable
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)	0.055-0.400mm
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
预先张力 pre-tension	最大 50N (按钢线直径而定) max. 50N (according to diameter of wire)
号数 wire number	
直径 diameter	Φ192mm
长度 length	662mm
个数 number	3
主电机功率 main motor power	最大 max. 3×30KW
轴距 (左右) wheelbase (left & right)	540mm
轴距 (上下) wheelbase (up & down)	1500mm
钢线偏向滚轮 offset roller	
直径 diameter	160mm
个数 number	2×3 (可) (optional)
卷绕线盘 winding coil	
卷绕轴工作高度 working height of winding shaft	1550mm
卷绕线盘 winding coil	WSK02/550273071
供电源电压 wire winding coil supply voltage	7.120V
切削液供应 cutting compound supply	
切削液箱容量 capacity of cutting tank	300L
切削液温度常数 temperature constant of cutting fluid 410G ±1℃	可设可调 adjustable
每秒钟流量 pumping rate	最大 MAX. 12000kg/h 可设可调, 使用流量计测并显示 adjustable, measure with flow meter and display
冷却水流入温度 inflow temperature of cooling water	15℃ ±1℃
冷却系统 cooling system	
类型 type	SPS 控制, 一体 PC 机 SPS controller "S7" series with integrated PC
供货商 supplier	西门子 (Siemens)
操作/操作面板 operation panel	可拆卸式 removable screen
外观尺寸及总重量 outline dimension and total weight	
长度 length	4700mm
宽度 width	2100mm
高度 height	3500mm
总重量 total weight	约 13000kg

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