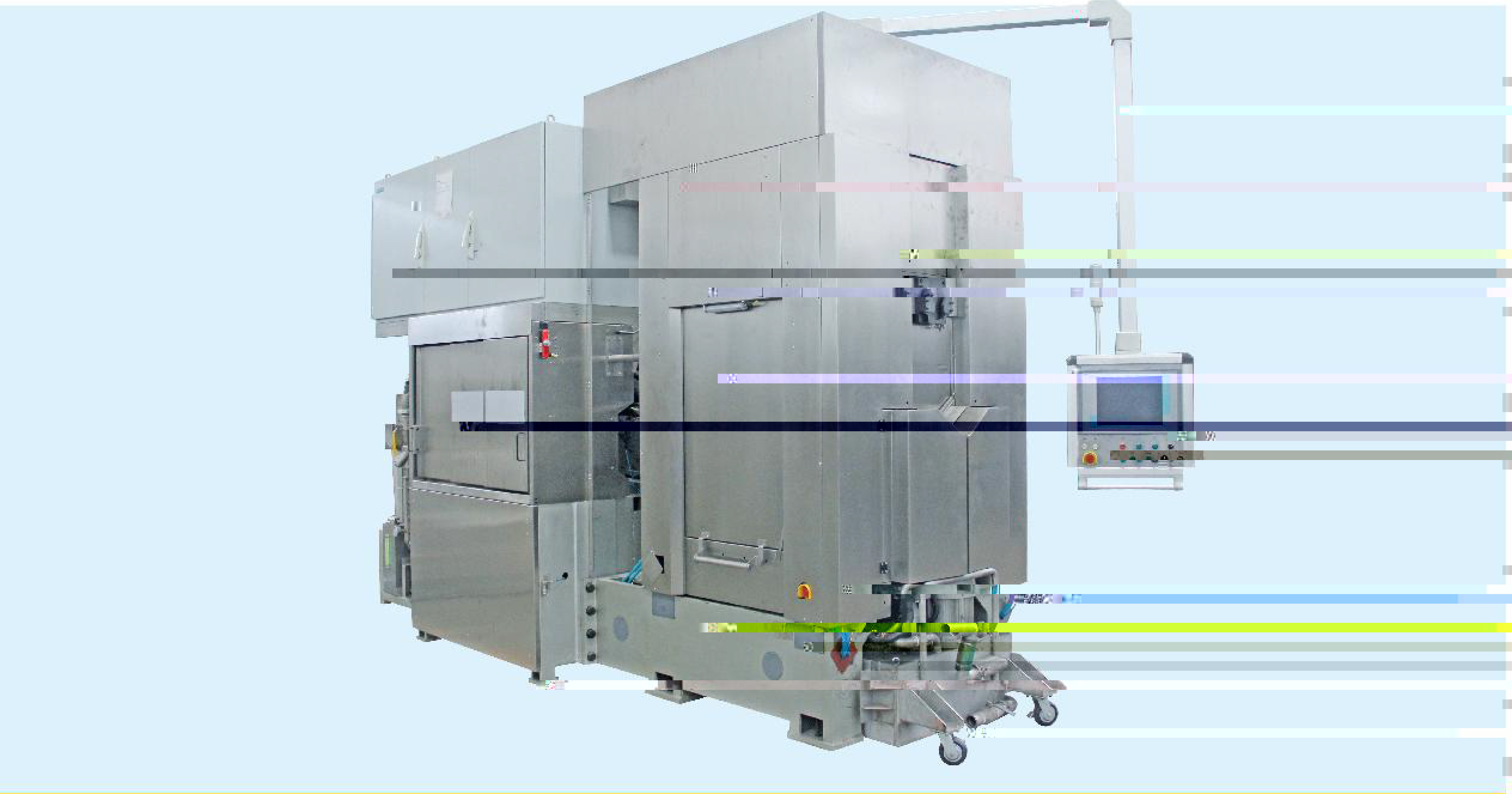
WSK063

半导体晶圆切片机

WSK063 SiC slicing machine



设备用途和特性

- 本机床[illegible]行业，用于半导体晶棒的切片，是半导体[illegible]最大为Φ330mm，切片厚度最小为0.2mm，必须调整制程，一次装夹最大可切片达[illegible]片，是半导体行业[illegible]的优选设备。
- 本机床特点：
- 1、两个钢线导轮驱动，收（放）线驱动[illegible]线驱[illegible]
- 2、钢线张紧力的检测控制[illegible]（恒定）
- 3、工件进给由伺服电机通过滚珠丝杠[illegible]钢线的[illegible]速度相匹配。
- 4、切削液的搅拌与输送。切削液管[illegible]及计量器计量，与切片速度[illegible]
- 5、本机床为高新技术集中的产品。

Aplications ans structural features

- the machine is used for cutting Semi-conductor bar, which is main [illegible] processing equipment. the max dimension of cross sectionΦ330mm, the minimum thickness of section 0.2mm, adjust processing procedure. it max cut [illegible] at one clamping. the optimized equipment for [illegible] semi-conductor manufacturers.
- features:
- two wire guide wheel drive, [illegible] drive, cable drive, all of these apply servo drive, and must be synchronized.
- detection control of wire tension [illegible] be controlled by servo motor (constancy)
- workpiece feeding is driven by servo motor [illegible] ball screw, feed rate is matching guiding speed of wire.
- agitation and conveying of cutting fluid.Cutting fluid pipe can reach up constant temperature through heat exchanger, matching the slicing ratate.
- 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	2×300mm/1×600mm
厚度 thickness	≥0.200mm（必须调整制程must adjust manufacturing process）
切割速率 cutting rate	
线速 linear velocity	最大 max 30m/s [illegible]
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)	0.0[illegible]-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
预张紧力 pre-tension	最大50N（端视钢线直径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 3×30KW
轴距（左右）wheelbase (left&right)	540mm
轴距（上下）wheelbase (up&down)	450mm
钢线偏向滚轮 offset one	
直径diameter	100mm
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
供应商卷绕线盘 winding coil of supplier	TA100
切削液供应cutting compound supply	
切削液箱最大容量 capacity of cutting tank	300L
切削液温度常数 temperature constant of cutting fluid	±1°C　可选择预设温度 optional preset temperature 20-70°C
泵输送率 pumping rate	最大MAX 12000kg/h可以调整，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	[illegible]
控制系统controlling system	
类型type	SPS控制器一体化PC和SPS controller S series with integrated PC
供货商supplier	西门子（Siemens）
监控/操作面板monitor/operation panel	[illegible]触摸屏 touch screen
外观尺寸及总重量outline dimension and total weight	
长度length	4470mm
宽度width	2170mm
高度height	3563mm
总重量total weight	约13000kg

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