

## MULTI-WIRE SAW

# 多线切割机YJ-XQL921HS

本机器主要用于切割太阳能单晶硅、多晶硅材料等，特别适用于182x182mm，182x210mm，210x210mm，230x230mm以及210半片的大尺寸硅片的高效切割应用。

This machine is mainly used for cutting solar monocrystalline silicon and polysilicon materials, etc., suitable for efficient cutting of large size silicon wafers of 182 × 182mm, 182 × 210mm, 210 × 210mm and 230 × 230mm.



太阳能电板



光伏硅片

### 设备特点

- 实现高速切割，切割速度达2400m/min;
- 采用国际先进的伺服系统成套解决方案，系统性能稳定可靠;
- 四档轴距可调，实现对不同尺寸硅棒的兼容性切割;
- 采用伺服电机控制张力大小，可实现张力调节精度达± 0.1N;
- 全新布局方案，缩减导轮间的过线间距，减小附加张力的损失，砂浆缸装载容积>800L，减少硅粉悬浊物浓度;
- 电柜箱置于设备侧面，满足后端自动化直接将硅棒接驳至切割位;
- 采用我司专利断线保护装置，反应灵敏，大幅减小断线后对线网及罗拉的损伤;
- 采用更小直径的小滑轮，减小转动惯量，从而减小对钢线的摩擦损伤，以适应更细的切割线。

### MAIN TECHNICAL FEATURES

- Achieve high-speed cutting which up to 2400m/min.
- Stable servo system is equipped.
- The four-speed wheelbase is adjustable to achieve compatible cutting of silicon rods of different sizes.
- Wire tension controlled by servo motor. Tension precision is within ± 0.1N.
- New solution reduces the line spacing between guide wheels and reduces additional tension. The mortar tank volume is >800L, reducing the concentration of silicon powder.
- The electrical cabinet is placed on the back of the equipment, and the back-end automation directly connects the silicon rods to the cutting position.
- Our patented wire breakage protection device can greatly reduce the damage to the wire and roller after wire break.
- The smaller pulley can decrease the moment of inertia so as to reduce the friction damage to the wire to adapt to the finer wire.

### 主要技术参数 MAIN TECHNICAL SPECIFICATIONS

项目/Items	规格/Specs
最大工件尺寸(Maximum workpiece size)	230×230×950mm
罗拉尺寸(Roller size)	(Φ150mm-Φ160mm)×960(mm涂敷长度)
罗拉个数(Roller number)	3个
线轮储线量(Bobbin wiring capacity)	120-240km
切割线线径(Wire diameter)	Φ0.025-0.06mm
切割线速度(Cutting line speed)	≤2400m/min
罗拉间距(Roller distance)	310mm(105x210mm/91x182mm) 360mm(182x182mm/182x210mm) 395mm(210mmx210mm) 410mm(230mmx230mm)
电源/耗电量(Power supply/Power consumption)	3 phase-380V/120KVA(Max260KVA)
切削液容积(Cutting fluid tank volume)	800L
机器外形尺寸L×W×H(Size)	5435mmx2430mmx3430mm(包含悬臂)
机器重量(Weight)	13000kg