

Multi-Wire Slitting System for Magnetic Alloys

磁材多线切割机YJ-XQ932A

让磁材切割更稳定 更高效 更智能

Make the cutting of magnetic materials more stable, efficient and intelligent.

新一代智能磁材专机

A new generation of intelligent magnetic material special-purpose machine.



脆性材料晶棒
Brittle semiconductor ingot



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设备特点

- 线速提升：2800M/MIN；
- 振动：高速运行状态下振幅数值1MM/S以内；
- 主轴系统：
 - ①锥面抱紧技术：采用宇晶专利技术，通过锥面抱紧消除轴箱与铸件间隙，主动轴箱端面等高误差控制在±0.02MM，降低高速下设备震动；
 - ②双面接触技术：采用先进成熟NSK刀柄结构原理，通过过约束来增加罗拉与轴箱贴合面，增加轴系刚性，能传递更大扭矩；
 - ③动平衡：每根罗拉出厂按G0.4要求定义，使高速运转更加平稳；
- 高效夹紧：利用自动夹紧装置，确保工件在加工过程中保持正确位置，减少人工干预，提高生产效率；
- 自动化操作：通过预先编程和实时传感器反馈，实现夹具的自动化控制。

MAIN TECHNICAL FEATURES

- Line Speed Increase: 2800 m/min.
- Vibration: Amplitude ≤1 mm/s under high-speed operation.
- Spindle System:
 - ①Taper Clamping Technology:Utilizes Yujing's patented technology to eliminate gaps between the spindle housing and casting via tapered clamping. Ensures end-face height error of the spindle housing within ±0.02 mm, reducing vibration at high speeds.
 - ②Dual-Contact Technology:Based on NSK toolholder principles, this advanced design enhances rigidity by increasing the contact area between the roller and spindle housing through over-constraint.Enables higher torque transmission for stable performance.
 - ③Dynamic Balancing:Each roller is factory-balanced to G0.4 standard, ensuring smooth high-speed operation.
- Efficient Clamping:An automatic clamping device secures workpieces in the correct position during machining, minimizing manual intervention and improving productivity.
- Automated Operation:Pre-programmed controls and real-time sensor feedback enable fully automated fixture adjustments.

主要技术参数 MAIN TECHNICAL SPECIFICATIONS

项目/Items	规格/Specs
最大可切割的工件尺寸Maximum cuttable workpiece size	220（宽）x160（高）x800（长）mm
罗拉涂覆尺寸Roller coating size	（φ180 ~ φ160）x880mm
罗拉数量Number of rollers	3辊
线轮储线量Wire Storage	30km(φ0.12~φ0.25mm金刚石线)
切片厚度 Slice thickness	1.5~30mm
切割速度Cutting speed	≤2800m/min
金刚线张力/Diamond thread tension	Max 40N
电源/功率Power source/power	3 phase-380V/最大功率100kW（运行功率30kW）
切削液容积Cutting fluid volume	500L
设备尺寸/Equipment size	3300mm×1650mm×2900mm
机器重量Weight	约9500Kg