

## DOUBLE SIDED LAPPING MACHINE

# 双面研磨机YJ-16B5LC

本机器主要用于碳化硅片、砷化镓片、硅片、陶瓷片、石英晶体及其它半导体材料的双面高精度研磨，也适用于其它金属、非金属、光学玻璃等硬、脆、薄材料的双面高精度研磨。因此在电子、仪器仪表、光学材料等行业里有着广泛的应用。

This machine is mainly used for grinding silicon carbide sheet, gallium arsenide sheet, silicon sheet, ceramic sheet, quartz crystal and other semiconductor materials, and is also suitable for other metals, non-metals, optical glass and other materials double-sided high-precision grinding. In electronics, instrumentation, optical materials and other industries have a wide range of applications.



蓝宝石圆片



蓝宝石方片

### 设备特点

- 机器采用四电机驱动，下盘、上盘、内齿圈和太阳轮分别由电机单独驱动；
- 机器整体结构紧凑，运行平稳，有效地缩短各传动轴的长度，增加机器的机械刚度；
- 电机采用变频调速器控制，能在有效设置范围内以任意速度工作、停止、加速、减速；
- 上盘装置增加机械的安全装置，在摆片、维修等状态下不会因突然故障而下降，增加了安全性。

### MAIN TECHNICAL FEATURES

- Four motors control the upper plate, lower plate, inner ring gear and sun gear separately.
- The overall structure of the machine is compact, running smoothly, effectively shortening the length of each transmission shaft and increasing the mechanical stiffness of the machine;
- The motor is controlled by frequency conversion governor, which can work, stop, accelerate and decelerate at any speed within the effective setting range.
- Mechanical safety device prevents upper plate from falling down.

### 主要技术参数 MAIN TECHNICAL SPECIFICATIONS

项目/Items	规格/Specs
上、下盘尺寸(Upper、lower plate size)	φ1125×φ393×50(mm)
游星轮数量(Number of Planet gears)	M=3 Z=142
工件厚度(Thickness of workpiece)	5
工件直径(Dimensions of workpiece)	0.35~35mm
上盘转速/下盘转速(Upper、Lower plate rotational speed)	5~45rpm/5~48rpm
太阳轮转速/内齿圈转速(Sun gear speed/Internal ring gear speed)	3~30rpm/3~24rpm
内齿圈、太阳轮抬升行程(Lifting stroke of sun gear and ring gear)	35mm
上盘压力范围(Upper plate pressure range)	≤ 500Kg
上、下盘电机(Upper and Lower plate motor)	7.5kw 1450rpm/7.5kw 1450rpm
太阳轮电机/内齿圈电机(Sun gear motor/ Inner gear ring motor)	1.5kw 1450rpm/2.2kw 1450rpm
升降电机/砂泵电机(Lifting motor/Slurry pump motor)	400w/250w
电源/耗电量(Power supply / Power consumption)	3相 380V / 20KW
气源/耗气量(Air supply/Air consumption)	0.5~0.6Mpa/20xN(L/H)(N为每小时循环工作次数)
上、下盘平面度(Upper and Lower plate flatness)	≤0.03mm
下盘端跳/压力控制精度(Bottom end jump/Pressure control accuracy)	≤0.02mm/±5Kg
外形尺寸(Size L×W×H)	2350×1660×2550 (mm)
机器重量(Weight)	~6000Kg