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斯凯夫机械
SKF Machinery

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精密数控双端面研磨机

Precision Numerically-controlled Double Side
Grinding and Lapping Machine

SKF®

斯凯夫机械 新乡市斯凯夫机械有限公司 Xinxiang SKF Machinery Co.,LTD.

地址: 新乡市牧野区化学与物理电源产业园敬业路与新五街交叉口1578号

Address: No 1578, Intersection of Jing Ye road & Xin Wu street,
Chemical & Physical power Industrial park, Xinxiang, 453000, Henan, CN

电话 Tel: 0373-3533138 传真 Fax: 0373-3533308

邮箱Email: sales@skfjx.com 邮编 Zip code: 453000

新乡市斯凯夫机械有限公司
Xinxiang SKF Machinery Co.,LTD.



- 2009年 公司成立于河南省新乡市
- 2017年 荣升市双端面工程技术研发中心
- 2018年 河南省科技小巨人（培育）企业
- 2018年 省创新创业大赛荣获成长组优秀奖
- 2018年 认定高新技术企业
- 2019年 拥有实用创新专利19件
- 2023年 成功研发新型高精度单面研磨机

COMPANY
PROFILE
公司简介

新乡市斯凯夫机械有限公司创立于2009年，是一家集科研、生产、销售、服务于一体的高新技术企业，公司专业生产高端高精度端面研磨机、抛光机。产品广泛应用于汽车密封阀片、柱塞泵阀片、汽车密封阀座、化油器叶轮、硬质合金环、氧化铝陶瓷、氧化锆陶瓷、不锈钢、合金、活塞环、机械密封件、陶瓷磨片、光学晶体，光学玻璃，表玻璃，蓝宝石衬底，半导体硅片，石英晶体片，压电陶瓷等金属非金属材料研磨抛光。

客户群遍及全国各地和海外地区。代表客户有GKN、NBTM、MIBA、SEDAL、AVIC、PMG等众多中外知名企业。

公司锐意进取，开拓发展，通过严格的品质管理，先进的技术创新在高精度端面研磨抛光领域形成了自己的核心竞争力，拥有研发中心、高新技术企业、多项实用新型专利等平台并与国家研究院合作进行专业课题研究和技术开发，全力以赴地协助客户解决在研磨抛光方面所遇到的各种难题，为广大新老客户提供优质的产品，专业的服务。本公司还设有专门的实验室，可免费为客户提供研磨抛光实验与技术支持。

公司按照ISO9001：2008质量管理体系要求，严格控制工序质量及产品质量，确保质量稳定。

创新和发展是我们永恒的主题，让客户满意是我们的目标。我们愿与您携手并进，共创辉煌！

Xinxiang SKF Machinery co., Ltd. was founded in 2009. It is a high-tech enterprise collect scientific research, production, sales, service as a whole. Xinxiang SKF Machinery co., Ltd. specializes in the production of High-precision surface grinding machine, lapping machine and polishing machine. Products are widely used for the grinding and polishing of metal and non-metal parts like automotive sealing valve, plunger pump valve slice, car seal seat, carburetor impeller, carbide ring, alumina ceramic, zirconia ceramic, stainless steel, alloy, piston ring, mechanical seals, ceramic grinding, optical crystal, optical glass, sheet glass, sapphire substrate, semiconductor silicon, quartz crystal slice, the piezoelectric ceramic, etc.

Our products have enjoyed a good reputation among domestic and overseas customers especially some international famous companies like GKN, NBTM, MIBA, SEDAL, AVIC, etc.

Our Company forge ahead, pioneering development. With the strict quality management, advanced technical innovation, we formed our own core competitiveness. We are with research and development center, high and new technology enterprise platform, a number of utility model patents and cooperated with the national research council for professional research and technical development. We are also equipped with specialized laboratories, can provide customers with free grinding and polishing experiments and technical support.

Xinxiang SKF Machinery co., Ltd. complies ISO9001:2008 quality management system requirements, control the process quality and product quality strictly to ensure quality stability.

Innovation & development is our eternal theme, customer satisfaction is our goal. We are looking forward to hand in hand with you to create a brilliant future!

HIGH PRECISION SURFACE GRINDING MACHINE

高精度双端面研磨机



◦ GMM700

APPLICATION

应用领域

可广泛应用于汽车转向阀零部件、制冷压缩机零部件、油泵油嘴零部件、发动机零部件、高精度轴承、密封件、活塞环、量刀具、硬质合金刀片、陶瓷阀芯、磁性材料等产品的双端面的精研加工。产品质量和生产能力，可满足不同行业、不同用户需求。

Widely used for double side surface fine grinding for parts like automobile steering valve parts, refrigeration compressor parts, oil pump nozzles parts, engine parts, high precision bearings, seals, piston rings, measuring tools, carbide blades, ceramic spool, magnetic materials, etc. Product quality and production capacity can meet the needs of different industries, different users.

ADVANTAGES

产品优点

- 1.高刚性高精度床身
- 2.无接触测量，更精准耐用
- 3.无极自动加压，控制更精准
- 4.便捷的半自动人性化上下料设置，提高生产效率
- 5.触摸屏界面，易于操作
- 6.故障报警功能
- 7.免维护或少维护
- 8.适用于各类加工要求

1. High rigidity and high precision machine bed
2. Non-contact measurement system, more precise and durable
3. Automatic stepless pressure control, more accurate
4. Convenient semi-automatic loading and unloading setting to improve production efficiency
5. Touch screen interface, easy to operate
6. Fault alarm function
7. Maintenance free
8. Adapt to all kinds of grinding requirements



◦ GMM1000

◦ GMM1200



• GMM1500



TECHNICAL PARAMETER

技术参数

	GMM530	GMM700	GMM1000	GMM1200	GMM1500
磨盘 Grinding wheel	Φ530×225×35	Φ700×300×55	Φ1000×350×55	Φ1250×450×55	Φ1470×530×60
上盘电机 Up wheel motor (kw)	4	6	10	15	15/20
上盘速度 Up wheel speed (r/min)	105	105	80	85	85/150
下盘电机 Lower wheel motor (kw)	4	6	10	15	15/20
下盘速度 Lower wheel speed (r/min)	105	105	80	85	85/150
内环电机 Inner ring motor (kw)	2	2	3	4	4
内环速度 Inner ring speed (r/min)	65	75	65	60	60
设备尺寸 Dimension (mm)	1500×1700×2500	1800×1900×2500	2500×2100×2700	2660×2620×2450	2660×2820×2450
重量 Weight (kg)	3000	4500	6000	10000	11000

CASES

加工案例

汽车转向阀零部件、制冷压缩机零部件、油泵油嘴零部件、发动机零部件、高精密封件、密封件、活塞环、量刃具、硬质合金力片、陶瓷阀芯、磁性材料等。

Automobile steering valve parts, refrigeration compressor parts, oil pump nozzle parts, engine parts, high-precision bearings, seals, piston rings, measuring tools, cemented carbide sheets, ceramic valve cores, magnetic materials, etc.



陶瓷阀芯



转子定子



压缩机阀板



转子定子



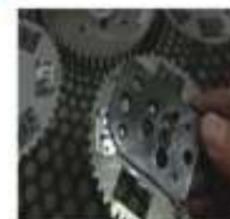
PVC材料



氧化锆陶瓷



硬质合金刀片



压缩机阀片



单面研磨



铝件研磨



异形工件



铜件研磨



硬质合金研磨



铸铁件研磨



钢件研磨



钢件研磨



蓝宝石研磨



不锈钢研磨



硬质合金工件研磨



硬质合金工件

CASES

加工案例



陶瓷阀芯抛光后
After the ceramic
valve core is polished



硬质合金
Hard metal

DOUBLE SIDE POLISHING
MACHINE 16B

16B 双端面抛光机



APPLICATION

应用领域

该机广泛用于手机玻璃、光学玻璃晶片、LED蓝宝石衬底、陶瓷板、活塞环、阀片、钕铁硼、铁氧体、铌酸体、铌酸锂、钽酸锂、PTC热敏电阻、光盘基片、陶瓷密封环、硬质合金、密封环、钨钢片、等各种材料的双面研磨抛光。

Widely used for double side surface polishing for parts like mobile phone glass optical glass chips, LED the sapphire substrate, ceramic plate, piston rings, valve plates, ndfeb, ferrite, niobium acid, lithium niobate and lithium tantalate, PTC thermistor, optical disc substrate, ceramic ring, tungsten carbide, seal ring, tungsten steel sheets and other materials.

TECHNICAL PARAMETER

技术参数

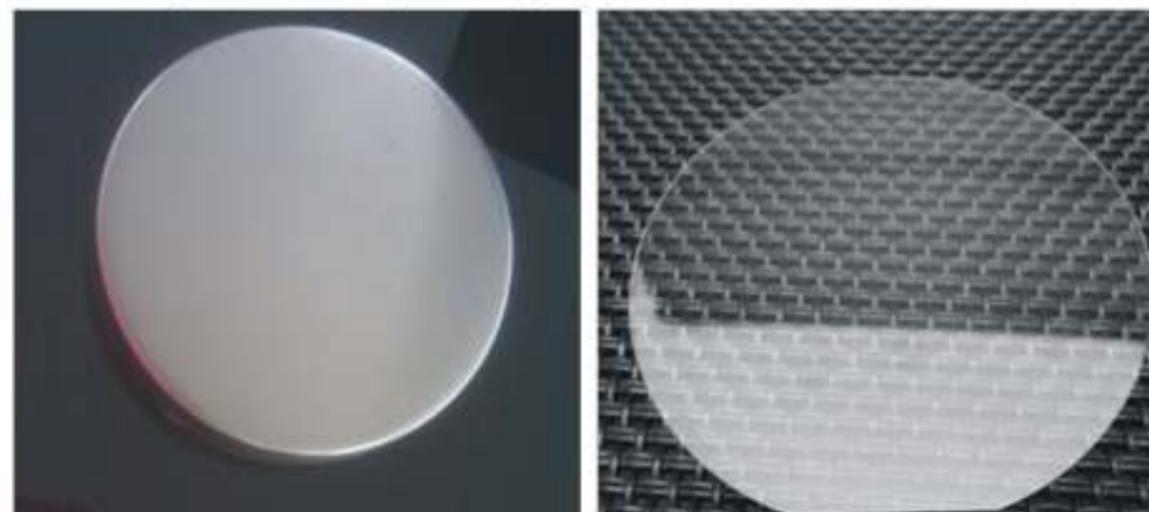
16B Item		参数 Parameter
上下盘尺寸 Up & Lower plate size		Φ 1144 × Φ 355 × 150
游星轮数量 Carrier No.		5个pc/ 1set
电机 Motor	上盘电机 Up plate motor	7.5KW
	下盘电机 Lower plate motor	7.5KW
	内环电机 Inner ring motor	1.5KW
	外环电机 Out ring motor	2.2KW
	加液电机 Liquid adding motor	0.4 KW
	搅拌电机 Mixing motor	0.1 KW
载盘 Load plate		5 pcs/1set
工件最大直径 Max diameter of part		Φ 350mm
工件厚度 Thickness of part		0.2-125mm
转速 Rotation speed	上盘转速 Up plate speed	0 ~ 30RPM
	下盘转速 Lower plate speed	0 ~ 60RPM
	内环转速 Inner ring speed	0~ 30RPM
	外环转速 Out ring speed	0 ~ 30RPM
气压 Air pressure		0.5~ 0.6Mpa
机床重量 Weight		6500 KG

ADVANTAGES

产品优点

- 1.主机采用双电机驱动，太阳轮变速范围更广，可以任意控制工作速度比，能满足不同研磨工艺的要求。三项异步电机配变频器实行软启动，软停止，使调速，停机平稳，冲击小等优点。
- 2.内齿圈采用电机驱动升降，设有位置可调装置，满足了取放工件及调整游轮啮合位置的要求，提高了齿圈及外齿圈的使用寿命。
- 3.上盘单独设置了快升、快降、缓升、缓降装置，可根据客户加工的不同产品进行选择。
- 4.设记圈，计时功能为操作人员提供研磨/抛光依据。
- 5.上下磨盘采用齿轮传动，运行平稳。
- 6.整机上下采用龙门与箱体结构，增强上磨盘的刚性。
- 7.采用进口圆锥轴承，定心性能好，噪音小，振动小。
- 8.整机采用自动定时润滑，提高了整机寿命。
- 9.上磨盘采用双重自锁结构防止上磨盘突然下降，增加机器的安全系数，避免工伤事故的发生。
- 10.电气采用PLC控制，PT人机界面显示设备各项运行参数，压力采用电气比例阀与拉力传感器闭环控制，时刻检测磨盘重量压力控制更加精确。

- 1.Double motor drive, can arbitrarily control the working speed ratio to meet different requirements. Three asynchronous motor with frequency converter to implement soft start, soft stop to get stable speed regulation, stable stop and small impact.
- 2.Inner gear ring is driven up/down by motor and equipped with position adjustable device, improve the service life of the inner ring and outer ring.
- 3.Upper plate is equipped with quick lift, quick drop, slow lift and slow drop devices, can be selected for different products.
- 4.Circle record and timer are set, provides the operator with the lapping/polishing basis.
- 5.Upper and lower grinding disc adopt gear transmission, running smoothly.
6. Adopts gantry and box structure to enhance the rigidity of the upper plate.
- 7.Imported cone bearing, good centering performance, low noise, low vibration.
- 8.Adopts automatic regular lubrication to improve machine life
- 9.Double self-locking structure is adopted to prevent the sudden drop of the upper plate
- 10.PLC control, pressure is closed loop controlled by electric proportional valve and tension sensor. More accurate.



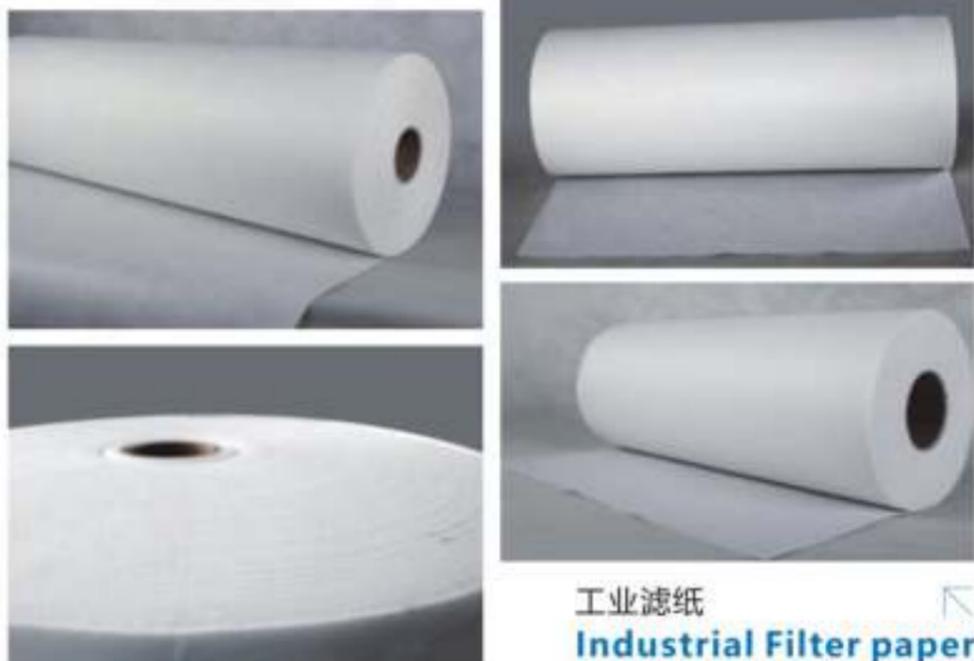
GRINDING, LAPPING /
POLISHING CONSUMABLES

研磨耗材



金刚石 / CBN砂轮
Diamond /
CBN grinding plate

碳化硅 / 白刚玉修整砂轮
Carborundum /
White corundum dressing grinding wheel



工业滤纸
Industrial Filter paper

STRENGTH
CAST MAGNIFICENTLY
实力铸就辉煌

