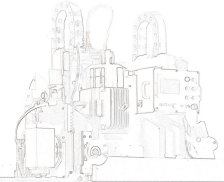




贝斯特磨刀机

BEST GRINDING MACHINE



江苏贝斯特数控机械有限公司
JIANGSU BEST CNC MACHINERY CO., LTD.

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贝斯特 JSBEST 中国规模化磨刀机专业生产基地
磨刀机行业标准制(修)定单位

PART OF THE CASE

部分案例



造纸印刷 Paper printing



林木人造板 Wooden board



刀具机械和其他 Tool machinery and others



贝斯特磨刀机

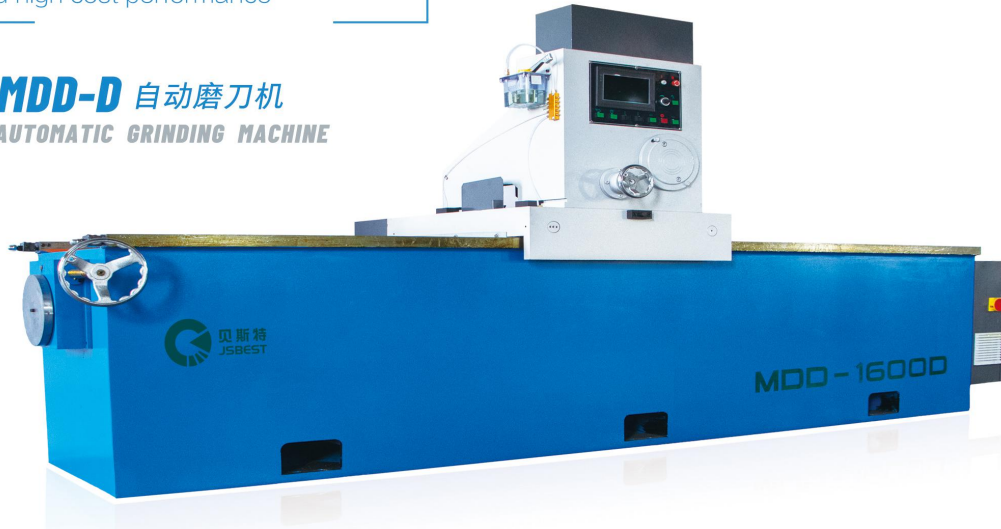
BEST GRINDING MACHINE



高速高效，成熟定型，性价比高
High speed, high efficiency, mature and high cost performance



MDD-D 自动磨刀机
AUTOMATIC GRINDING MACHINE

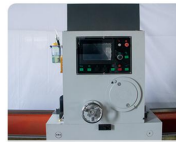


结构特点

- 磨刀机采用龙门式床身，采用优质钢板焊接，经过高温回火以及时效处理和精密加工，精度保持性好。
- 360° 回转电磁吸盘工作台，标配铜线圈，超强吸力，质量稳定；吸盘转动精准，带自动锁紧功能，同时可以非标定制各类刀片工作。
- 标配快换砂轮座，可以在30秒内更换砂轮。
- 磨头架自动往返采用变频电机驱动，斜齿条齿轮传动，无级往返变速：1 - 20m/min。
- 变频进给，进刀量和进刀频率通过专用PLC+变频控制；高效，准确，含3种专用进给形式操作程序；整机采用数字触控屏控制，进刀全部数字化显示。
- 中央自动润滑系统可向整个导轨，主轴，联轴器及整机提供润滑。

STRUCTURAL FEATURES

- The grinder adopts gantry type bed, high quality steel plate welding, high temperature tempering, aging treatment and precision machining, with good accuracy retention.
- 360° rotary electromagnetic sucker worktable, standard copper coil, super suction, stable quality; sucker rotation precision, with automatic locking function, at the same time can be non-standard customized all kinds of blade work.
- The standard quick change grinding wheel seat can change the grinding wheel in 30 seconds.
- The grinding head frame is driven by frequency conversion motor and driven by helical rack and pinion, with stepless speed change: 1 - 20m / min.
- Frequency conversion feed, feed quantity and feed frequency are controlled by special PLC + frequency conversion; high efficiency and accuracy, including three kinds of special feed operation procedures; the whole machine is controlled by digital touch screen, and all feed is displayed digitally.
- The central automatic lubrication system can provide lubrication for the whole guide rail, spindle, coupling and the whole machine.



操作面板
Operation panel
操作界面简洁明了，采用数字触控屏控制，进刀全部数字化显示。
The operation interface is simple and clear, controlled by digital touch screen/Feed all digital display.



电磁工作台
Magnetic chuck
专用强力电磁吸盘，铜线圈，稳定可靠，配专用对刀装置。
Special strong electromagnetic sucker, copper coil, stable and reliable. Equipped with special tool setting device.



磨头电机
Grinding head motor
专用磨头电机，精度高，稳定性高，配合快换砂轮装置，装卸方便。
Special grinding head motor, good precision, high stability, good cooperation. Quick change grinding wheel device, easy loading and unloading.

技术参数 TECHNICAL PARAMETERS

磨削刀片 Knife size	长度 Length	mm	1500-9000
	宽度 Width	mm	≤350
电磁工作台 Magnetic chuck	宽度 Width	mm	180-350
	角度 Angle	°	±90°
磨头电机 Grinding motor	功率 Power	kw	4/7.5/11/15
	转速 Rotating speed	r/min	1400
砂轮 Wheel	直径 Diameter	mm	200-250-300
磨头架 Grinding head frame	左右 About	m/min	1-20
	功率 Power	kw	1.1
设备外形尺寸 Size	长度 Length	mm	磨削长度 Grinding length +1500
	宽度 Width	mm	1100
	高度 Height	mm	1600



MDD-DZ
自动磨刀机 (直线导轨)
AUTOMATIC TOOL GRINDER (LINEAR GUIDE)



MDD-DZ 双磨头磨刀机
AUTOMATIC TOOL GRINDER (LINEAR GUIDE)

适用于刀具机械，林木，造纸印刷，纤维塑料粉碎等等行业的刀片制造或修磨。

It is suitable for blade manufacturing or grinding in cutting tool machinery, forest, papermaking and printing, fiber and plastic crushing and other industries



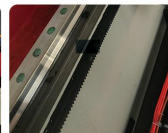
操作面板
Operation panel
操作界面简洁明了，采用数字触控屏控制，电力全部数字化显示。
The operation interface is simple and clear, controlled by digital touch screens. Feed all digital display.



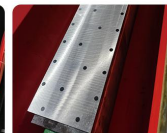
磁台工作台
Magnetic chuck
专用强力电磁吸盘，钢珠圈，稳定可靠，配有专用对刀装置。
Special strong electromagnetic sucker, copper coil, stable and reliable. Equipped with special tool setting device.



磨头电机
Grinding head motor
专用磨头电机，精度高，稳定性高，配合快换砂轮装置，装卸方便。
Special grinding head motor, good precision, high stability, good coordination. Quick change grinding wheel device, easy loading and unloading.



直线导轨
Linear guide
直线导轨，滚珠丝杠
Linear guide, ball screw



加密吸盘
Encrypted electromagnetic suction cup
加密吸盘，专门研磨超薄刀具（选配）
Encrypted electromagnetic suction cup, specially grinding ultra-thin tools (optional)



双排工作台
Double row worktable
双排工作台，适用于批量研磨（选配）
Double row worktable, suitable for batch grinding (optional)

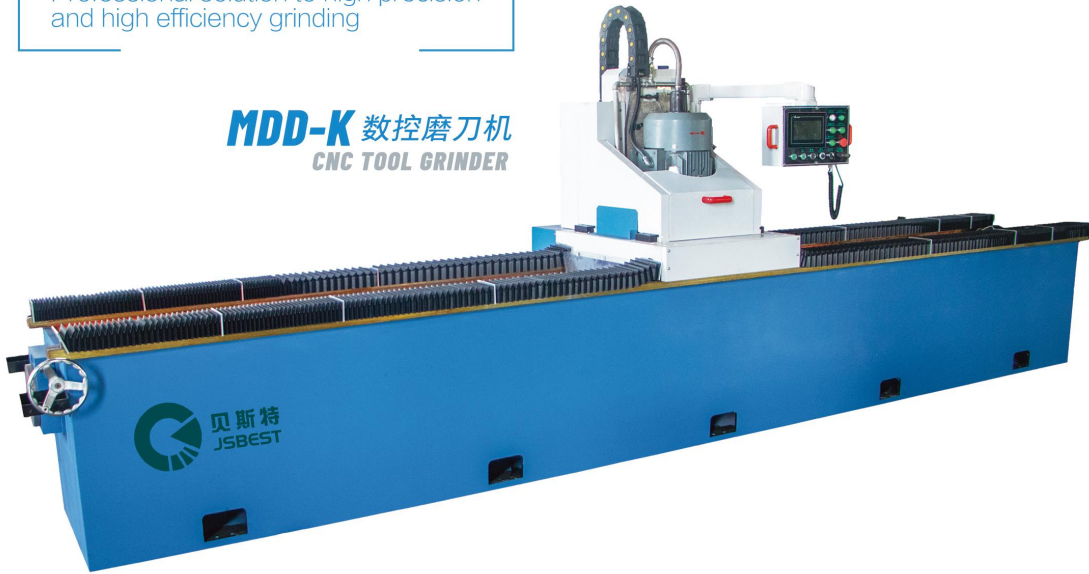


双磨头
Double grinding head
双磨头，粗磨，精磨一次成型（选配）
Double grinding heads, rough grinding, fine grinding, one-time forming (optional)

专业解决高精度 高效率磨削加工
Professional solution to high precision and high efficiency grinding



MDD-K 数控磨刀机
CNC TOOL GRINDER



结构特点

- 数控型磨刀机采用PLC程序控制，操作方便，快捷，性能稳定，可靠，自动化程度高。
- 全系列标配高精度，高刚性直线导轨，配以精密滚珠丝杆滑块，实现高精度磨削。
- 左右行走速度采用伺服或变频器控制，确保加工不同刀具、不同材质、不同硬度的刀具研磨速度以确保刀片研磨质量。
- 铜线圈电磁吸盘刀台，具有超强吸力，同时具有延时退磁功能，定位可靠，操作方便，工作效率高（磨削刮刀时，通常采用 专用工作台配置）
- 全系列标配专用磨头电机，可调轴向间隙，传动平稳，磨削量大，寿命长，精度高。
- 微电脑控制的自动润滑泵，对直线导轨、滚珠丝杆等关键部位定点、定时、定量润滑，保证机床的使用寿命。
- 全系列标配自动清洗，自动收渣装置，提高设备内部清洁，收集废渣，净化冷却水。

STRUCTURAL FEATURES

- The CNC tool grinder adopts PLC program control, which is easy to operate, fast, stable, reliable and highly automated.
- All series of standard high-precision, high rigid linear guide, with precision ball screw slider, to achieve high-precision grinding.
- The left and right walking speed is controlled by servo or frequency converter to ensure the grinding speed of different cutting tools, different materials and different hardness to ensure the grinding quality of the blade.
- The copper coil electromagnetic sucker tool table has super strong suction and delay demagnetization function, reliable positioning, convenient operation and high efficiency (when grinding the scraper, the special table configuration is usually used).
- All series of standard special grinding head motor, adjustable axial clearance, smooth transmission, large grinding amount, long service life and high precision.
- The automatic lubrication pump controlled by microcomputer can lubricate the key parts such as linear guide rail and ball screw at fixed point, time and quantity to ensure the service life of the machine tool.
- Automatic cleaning and slag collecting devices are equipped in the whole series to improve the internal cleaning of the equipment, collect the waste slag and purify the cooling water.



伺服电机

Servo motor
采用PLC程序控制，操作方便，快捷，性能稳定，可靠，自动化程度高。

Using PLC program control, easy to operate, fast, high performance/stable, reliable, high degree of automation.



电磁工作台

Magnetic chuck
专用强力电磁吸盘，铜线圈，稳定可靠，配专用刮刀装置。

Special strong electromagnetic sucker, copper coil, stable and reliable. Equipped with special tool setting device.



磨头电机

Grinding head motor

专用磨头电机，精度高，稳定性高，配合快换砂轮装置，装卸方便。

Special grinding head motor, good precision, high stability, good cooperation. Quick change grinding wheel device, easy loading and unloading.

技术参数 TECHNICAL PARAMETERS

磨削刀片 Knife size	长度 Length	mm	1500-9000
	宽度 Width	mm	≤300
电磁工作台 Magnetic chuck	宽度 Width	mm	180-220
	角度 Angle	°	±90°
磨头电机 Grinding motor	功率 Power	kw	7.5/11/15
	转速 Rotating speed	r/min	1400
砂轮 Wheel	直径 Diameter	mm	250/300
磨头架 Grinding head frame	左右 About	m/min	1-20
	功率 Power	kw	1.1
设备外形尺寸 Size	长度 Length	mm	磨削长度 Grinding length +2000
	宽度 Width	mm	1200
	高度 Height	mm	1700



MDD-KD 数控双头刀片磨床
CNC DOUBLE END BLADE GRINDER



伺服电机+PLC系统
Servo motor + PLC system
采用PLC程序控制, 操作方便, 快捷, 性能稳定, 可靠, 自动化程度高。
Using PLC program control, easy to operate, fast, high performance/stable, reliable, high degree of automation.



侧磨头 (选配)
Side grinding head (optional)



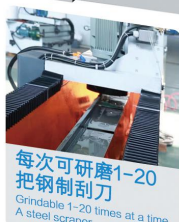
双磨头, 粗磨, 精磨一次成型 (选配)
Double grinding head, rough grinding, fine grinding, one-time forming (optional)



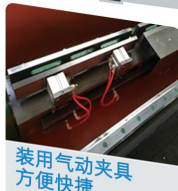
角度自动旋转 (伺服控制)
Automatic angle rotation (servo control)



伺服控制进给
Servo control feed



每次可研磨1-20把钢制刮刀
Grindable 1-20 times at a time
A steel scraper



装用气动夹具
方便快捷
Install pneumatic clamp,
Convenient and fast



MDD-KG 数控刮刀磨床
CNC SCRAPER GRINDER

适用于研磨各类高精度直刃刀具, 尤其适用高速钢, 合金刀具研磨, 直线度 $\leq \pm 0.01\text{mm/m}$

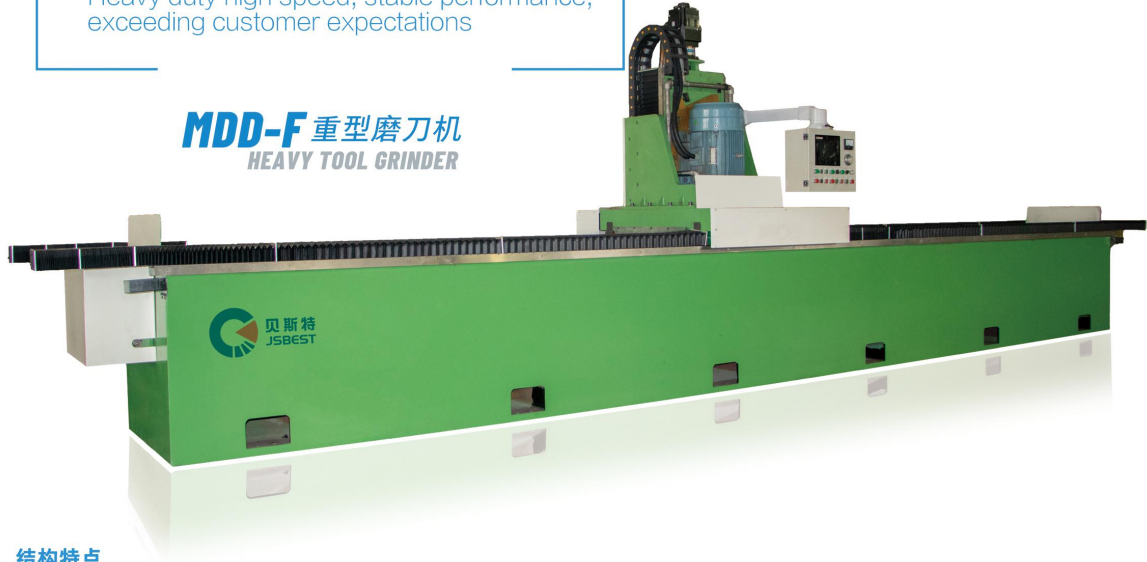
It is suitable for grinding all kinds of high precision straight edge tools, especially for high-speed steel and alloy tools, straightness is $< \pm 0.01\text{mm/m}$

重型高速，性能稳定，超客户预期

Heavy duty high speed, stable performance, exceeding customer expectations



MDD-F 重型磨刀机
HEAVY TOOL GRINDER



结构特点

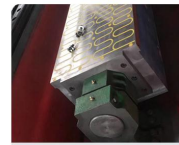
- 采用高强度焊钢结构，经过整体热处理消除床身的内部应力，机床床身采用具有抗扭曲和消震功能的内腔构造。
- 采用整体硬化处理及高精磨削的高硬度导轨，配合研磨级滚珠丝杠和齿轮齿条，确保机床的超高几何精度，具有非常好的刚性和非常低的摩擦功率消耗。
- 左右行走速度采用伺服或变频控制，确保加工不同材质、不同硬度的工件研磨速度以确保刀片研磨质量。
- 铜线圈专用电磁吸盘，具有吸力均匀优势，同时有延时退磁功能，定位可靠，操作方便，工作效率高（固定工作表和旋转工作表两种）。
- 全系列标配专用高切削力的磨头电机，可调轴间间隙，传动平稳，磨削量大，寿命长，精度高。
- 微电脑控制的自动润滑泵，对直线导轨、滚珠丝杆等关键部位定点、定时、定量润滑，保证机床的使用寿命。
- 全系列标配自动清洗，自动收渣装置，提高设备内部清洁，收集废渣，净化冷却水。

STRUCTURAL FEATURES

- High strength welded steel structure is adopted to eliminate the internal stress of the machine bed after integral heat treatment. The machine bed adopts the inner cavity structure with anti distortion and anti vibration function.
- The high hardness guide rail with integral hardening treatment and high precision grinding, together with grinding ball screw and gear rack, ensures the ultra-high geometric accuracy of the machine tool, with very good rigidity and very low friction power consumption.
- The left and right walking speed is controlled by servo or frequency conversion to ensure the grinding speed of workpiece with different materials and hardness to ensure the grinding quality of blade.
- The special electromagnetic sucker for copper coil has the advantages of uniform suction, delay demagnetization function, reliable positioning, convenient operation and high efficiency (fixed worktable and rotary worktable).
- All series of standard special grinding head motor, adjustable axial clearance, smooth transmission, large grinding amount, long service life and high precision.
- The automatic lubrication pump controlled by microcomputer can lubricate the key parts such as linear guide rail and ball screw at fixed point, time and quantity to ensure the service life of the machine tool.
- Automatic cleaning and slag collecting devices are equipped in the whole series to improve the internal cleaning of the equipment, collect the waste slag and purify the cooling water.



操作面板
Operation panel
集成式操作面板，操作方便，功能强大。
Integrated operation panel, easy to operate, powerful.



电磁工作台
Magnetic chuck
吸力稳定，平面度高，专用强力电磁吸盘，铜线圈，稳定可靠，配专用力装置。
Steady and reliable. Equipped with special tool setting device.



专业大功率磨头电机
Grinding head motor
专用大功率磨头电机，磨削力大，精度高，使用寿命长。
Special high power grinding head motor, large grinding force and high precision/long service life.

技术参数 TECHNICAL PARAMETERS

刀片尺寸 Grinding size	长度 Length	mm	1500-10000
	宽度 Width	mm	40-460
工作台 Workbench	电磁工作台吸力 Electromagnetic table suction	铜线圈 Copper coil	15kg/mm ²
	角度 Angle	±90°	固定/回转式 Fixed/rotary type
磨头主轴 Spindle	功率 Power	KW	22-55
	转速 Rotating speed	rpm	960-1450
	上下升降 Up and down movements	mm	PLC
	角度调整 Angle adjustment	°	0-±3°
左右行走 Walk around	速度 Speed	m/min	0.5-30
磨盘 Grinding wheel	砂瓦 Sand tile	mm	300/420
	砂轮 Grinding wheel	mm	250/300

重型高速，性能稳定，超客户预期

Heavy duty high speed, stable performance, exceeding customer expectations



磨头+铣头
Grinding head + milling head
磨头+铣头，磨削精度高
Grinding head + milling head, high grinding accuracy



电磁磁吸盘
Electromagnetic magnet
磁力均匀，不伤工件
Uniform magnetic force, no damage to the workpiece



专用铣头 (11kW/15kW)
Special milling head (11kw / 15kw)
磨削力强
Stable and efficient

重型平面铣磨组合机床

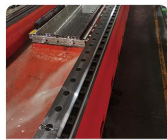
HEAVY PLANE MILLING AND GRINDING MODULAR MACHINE TOOL

适用于研磨各类模具，直线导轨，直线度高，效率高。

It is suitable for grinding various kinds of dies, straight guide rails, high straightness and high efficiency



专用PLC程序
Special PLC program
适用直线导轨磨削
Applicable to linear guide rail grinding



直线导轨研磨
Linear guide grinding
适用直线导轨磨削
Applicable to linear guide rail grinding



专用砂瓦盘
pecial sand tile disc



MDD-FD 重型直线导轨平面磨床

HEAVY LINEAR GUIDE PLANE GRINDER



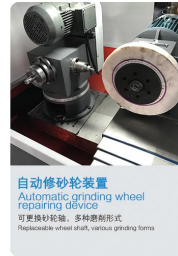
MYD-C
精密型圆刀磨刀机(自动进给)
PRECISION ROUND KNIFE GRINDER
(AUTOMATIC FEED)

结构特点

- 此款圆刀磨刀机采用PLC程序控制自动进给部分，操作方便，快捷，性能稳定，可靠，自动化程度高。
- 设备床身采用钢板焊接，具有抗扭曲和消震功能的内腔构造，稳定性强、防震效果好，经合理时效和热处理，能保证床身的高强度、低阻尼、高抗振性。
- 全系列标配高精度，高刚性直线导轨，配以精密滚珠丝杆滑块，实现高精度磨削；刀轴、砂轮轴跳动误差 $\leq \pm 0.005\text{mm}$ 。
- 采用完全密封的防护罩，其大型滑动门便于磨削工作区照明及察看同时可以封闭所有的配件及加工区域，以实现无噪音磨削。
- 多种磨削方式软件，包括杯形磨削方式，平行砂轮研磨。其中，平行单砂轮周边磨削方式，同时安装两个直边砂轮（粗磨和精磨）进行周边磨削。



操作面板
Operation panel
集成式操作面板，操作方便，功能强大。
Integrated operation panel, easy to operate, powerful.



自动修砂轮装置
Automatic grinding wheel repairing device
可更换砂轮轴，多种磨削形式。
Replaceable wheel shaft, various grinding forms.



双砂轮
Double grinding wheel
粗磨，精磨，一次成型。
Rough grinding, fine grinding, one-stop forming.

STRUCTURAL FEATURES

- This round knife grinder adopts PLC program to control the automatic feeding part, which is easy to operate, fast, stable, reliable and highly automated.
- The machine bed is welded with steel plate and has the inner cavity structure of anti distortion and anti vibration function. It has strong stability and good anti vibration effect. After reasonable aging and heat treatment, it can ensure the high strength, low damping and high anti vibration of the machine bed.
- The whole series is equipped with high precision, high rigidity linear guide rail, and precision ball screw slider to realize high precision grinding; the runout error of cutter shaft and grinding wheel shaft is less than $\pm 0.005\text{mm}$.
- Fully sealed protective cover is adopted, and its large sliding door is convenient for lighting and inspection of grinding working area. Meanwhile, all accessories and processing areas can be closed to realize noiseless grinding.
- A variety of grinding software, including cup grinding, parallel grinding wheel grinding, Among them, parallel single grinding wheel peripheral grinding mode, while installing two straight edge grinding wheels (rough grinding and finish grinding) for peripheral grinding.

技术参数 TECHNICAL PARAMETERS

圆刀片尺寸 Grinding size	直径 Diameter	mm	60-650
刀轴 Knife shaft	功率 Power	kw	0.7
	无级变速 stepless speed change	rpm	0-360
磨头主轴 Spindle	角度 Angle	°	$\pm 90^\circ$
	跳动误差 Beating error	mm	0.005
	功率 Power	kw	1.5/4.0
	转速 Rotating speed	rpm	2800/3600
	高度调整 Height adjustment	mm	60
	跳动误差 Beating error	mm	0.005
砂轮 Grinding wheel	片型 Chip type	mm	200/250
	碗形 Bowl shape	mm	180
设备外形尺寸 Size	深度 Depth	mm	1500
	宽度 Width	mm	1400
	高度 Height	mm	1600
重量 Weight	净重 Net weight	kg	2000

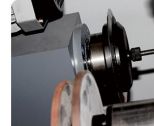
MYD-CS

精密型圆刀磨刀机 (手动型)

PRECISION ROUND KNIFE GRINDER (MANUAL TYPE)



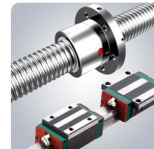
操作面板
Operation panel
集成式操作面板, 操作方便, 功能强大。
Integrated operation panel, easy to operate, powerful.



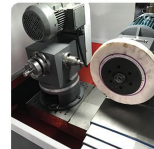
气动压刀
Pneumatic pressure knife
刀片自动锁紧, 方便快捷。
Blade automatic locking, convenient and fast.



磨刀片实样
Real sample of grinding blade
精度高, 磨削效果好。
High precision and good grinding effect.



进口直线导轨
Imported straight guide
高精度直线导轨, 滚珠丝杆。
High precision linear guide, ball screw.



自动修砂轮装置
Automatic grinding wheel repairing device
可更换砂轮, 多种磨削形式。
Replaceable wheel shaft, various grinding forms.



双砂轮
Double grinding wheel
粗磨, 精磨, 一次成型。
Rough grinding, fine grinding, one-step forming.

适用于造纸、印刷、电子、电池等行业的各类圆刀片的修磨, 包括分切上圆刀, 圆底刀, 钨钢圆刀, 以及各类大圆刀等等。

It is suitable for grinding all kinds of round blades in papermaking, printing, electronics, battery and other industries, including cutting round knife, round bottom knife, tungsten steel round knife, as well as all kinds of large round knife and so on.

技术参数 TECHNICAL PARAMETERS

圆刀片尺寸 Grinding size	直径 Diameter	mm	60-650
刀轴 Knife shaft	功率 Power	kw	0.7
	无级变速 stepless speed change	rpm	0-360
磨头主轴 Spindle	角度 Angle	°	± 90°
	跳动误差 Beating error	mm	0.005
	功率 Power	kw	1.5/4.0
	转速 Rotating speed	rpm	2800/3600
	高度调整 Height adjustment	mm	60
砂轮 Grinding wheel	跳动误差 Beating error	mm	0.005
	片型 Chip type	mm	200/250
	碗形 Bowl shape	mm	180
设备外形尺寸 Size	深度 Depth	mm	1500
	宽度 Width	mm	1400
	高度 Height	mm	1600
重量 Weight	净重 Net weight	kg	2000

结构特点

- 高强度数显配置, 进刀数字化控制。
- 进口直线滑轨和直线导轨, 高精度平滑运动。
- 集中加油装置, 实现一次性集中加油。
- 无级调速摆线减速机, 传动效率高, 磨削效果好。
- 磁性分离过滤, 冷却循环系统。
- 刀片自动锁紧 (气动)。

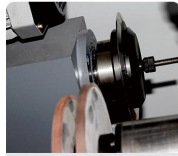
STRUCTURAL FEATURES

- High intensity digital display configuration, feed digital control.
- Imported linear slide rail and linear guide rail, high precision and smooth movement.
- Centralized refueling device, realize one-time centralized refueling.
- The cycloid reducer with stepless speed regulation has high transmission efficiency and good grinding effect.
- Magnetic separation filtration, cooling circulation system.
- Automatic blade locking (pneumatic).

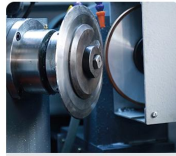
尖端高效，功能强大，操作简单
High efficiency, powerful function and simple operation



操作面板
Operation panel
集成式操作面板，操作方便，功能强大。
Integrated operation panel, easy to operate, powerful.



气动压刀
Pneumatic pressure knife
刀片自动锁紧，方便快捷
Blade automatic locking, convenient and fast



磨刀片实样
Real sample of grinding blade
精度高，磨削效果好
High precision and good grinding effect

结构特点

- 磨削精度高、主轴、刀轴、跳动控制在0.005mm以内，可以满足各类刀片使用要求。
- 编写专用圆刀CNC控制程序，操作方便、快捷、可针对各种不同尺寸刀片设置专用磨削程序，每次磨削时选用对应程序即可。
- 编程中可设定和储存总磨削量，单次磨削量，光刀时间，功能强大
- 磨头主轴可装两片砂轮，粗磨、细磨一次性完成，无需频繁更换砂轮
- 配置气动夹紧装置，自动夹刀，无需拧螺丝，提高效率，提升安全性。
- 刀轴可设定手动角度调整和数控角度调整（选配），操作方便。
- 可靠、耐用、功能强大，使用安全性高，所有的配件均采用顶尖品牌。

技术参数 TECHNICAL PARAMETERS

圆刀片尺寸 Grinding size	直径 Diameter	mm	60-650
刀轴 Knife shaft	功率 Power	kw	0.7
	无级变速 stepless speed change	rpm	0-360
磨头主轴 Spindle	角度 Angle	°	±90°
	跳动误差 Beating error	mm	0.005
	功率 Power	kw	1.5/4.0/7.5
	转速 Rotating speed	rpm	2800/3600
	高度调整 Height adjustment	mm	60
	跳动误差 Beating error	mm	0.005
砂轮 Grinding wheel	片型 Chip type	mm	200/250
	碗形 Bowl shape	mm	180
设备外形尺寸 Size	深度 Depth	mm	1800
	宽度 Width	mm	1800
	高度 Height	mm	1900
重量 Weight	净重 Net weight	kg	3000

STRUCTURAL FEATURES

- The grinding precision is high, the spindle, cutter shaft and runout control are within 0.005mm, which can meet the requirements Requirements for use of various blades.
- The CNC control program of special round cutter is easy to operate and can be used for different purposes The special grinding program is set for the size blade, and the corresponding program can be selected for each grinding.
- The program can set and store the total grinding amount, single grinding amount and light knife time.
- The spindle of grinding head can be equipped with two pieces of grinding wheel, automatic tool clamping, no need to screw, so as to improve efficiency and safety.
- Equipped with pneumatic clamping device, automatic clamping knife, no need to screw, improve efficiency and safety.
- The cutter shaft can be set with manual angle adjustment and CNC angle adjustment (optional), which is easy to operate.
- Reliable, durable, powerful, safe to use, all the accessories are top quality Brand.

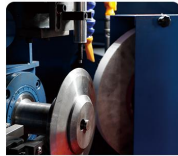
MYD-KF

圆刀片制造型数控磨刀机

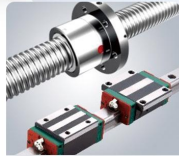
NC GRINDER FOR MANUFACTURING ROUND BLADE



CNC或PLC程序控制
CNC or PLC program control
操作方便,性能稳定,可靠,自动化程度高。
Easy to operate, stable performance, reliable, high degree of automation.



磨刀片试样
Real sample of grinding blade
双砂轮,粗磨,精磨,一次成型。
Double grinding wheel, rough grinding, fine grinding, one-time forming.



高精度直线导轨
High precision linear guide
实现快速精确移动并保证耐用度。
Fast and accurate movement and durability.

结构特点

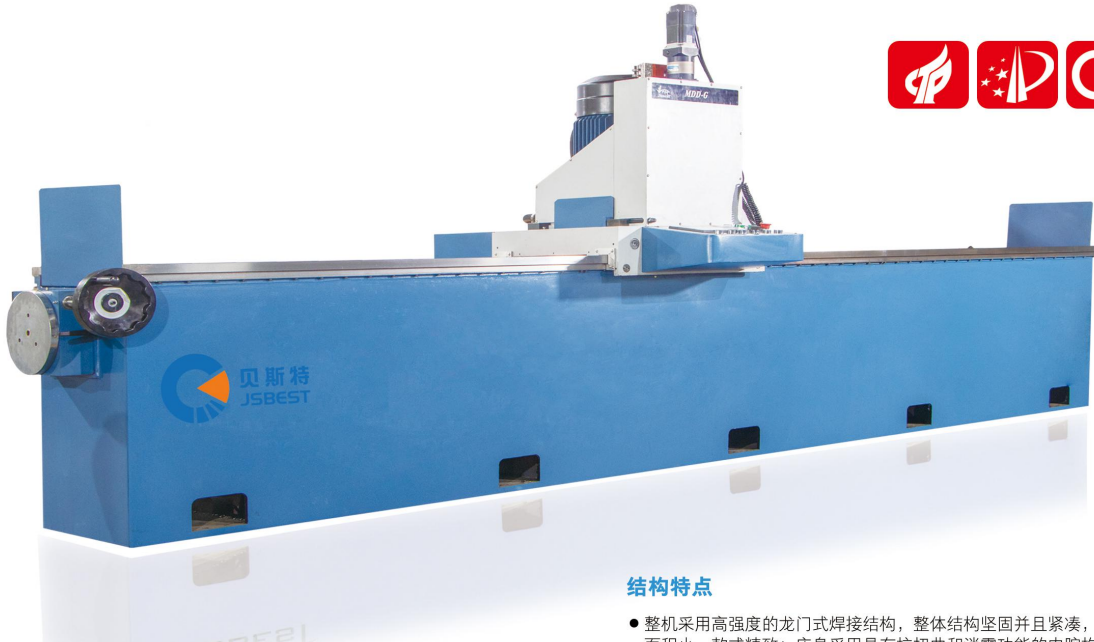
- 此款圆刀磨刀机采用CNC或PLC程序控制所有刀轴及砂轮轴,操作方便,快捷,性能稳定,可靠,自动化程度高。
- 设备床身采用钢板焊接,具有抗扭曲和消震功能的内腔构造,稳定性强、防震效果好,经合理时效和热处理,能保证床身的高强度、低阻尼、高抗振性。
- 全系列标配高精度,高刚性直线导轨,配以精密滚珠丝杆滑块,实现高精度磨削;刀轴、砂轮轴跳动误差 $\leq \pm 0.005\text{mm}$ 。
- 采用完全密封的防护罩,其大型滑动门便于磨削工作区照明及察看同时可以封闭所有的配件及加工区域,以实现无噪音磨削。
- 多种磨削方式软件,包括杯形磨削方式,平行砂轮研磨其中,平行单砂轮周边磨削方式,同时安装两个直边砂轮(粗磨和精磨)进行周边磨削。

技术参数 TECHNICAL PARAMETERS

圆刀片尺寸 Grinding size	直径 Diameter	mm	60-650
刀轴 Knife shaft	功率 Power	kw	0.7
	无级变速 stepless speed change	rpm	0-360
磨头主轴 Spindle	角度 Angle	°	$\pm 90^\circ$
	跳动误差 Beating error	mm	0.005
	功率 Power	kw	1.5/4.0/7.5
	转速 Rotating speed	rpm	2800/3600
	高度调整 Height adjustment	mm	60
砂轮 Grinding wheel	跳动误差 Beating error	mm	0.005
	片型 Chip type	mm	200/250
设备外形尺寸 Size	碗形 Bowl shape	mm	180
	深度 Depth	mm	1800
	宽度 Width	mm	1800
重量 Weight	高度 Height	mm	1900
	净重 Net weight	kg	3000

STRUCTURAL FEATURES

- This round knife grinder adopts CNC or PLC program to control all cutter shafts and grinding wheel shafts. It is easy to operate, fast, stable, reliable and highly automated.
- The machine bed is welded with steel plate and has the inner cavity structure of anti distortion and anti vibration function. It has strong stability and good anti vibration effect. After reasonable aging and heat treatment, it can ensure the high strength, low damping and high anti vibration of the machine bed.
- The whole series is equipped with high precision, high rigidity linear guide rail, and precision ball screw slider to realize high precision grinding; the runout error of cutter shaft and grinding wheel shaft is less than $\pm 0.005\text{mm}$.
- Fully sealed protective cover is adopted, and its large sliding door is convenient for lighting and inspection of grinding working area. Meanwhile, all accessories and processing areas can be closed to realize noiseless grinding.
- There are many kinds of grinding mode software, including cup grinding mode and parallel grinding wheel grinding mode. Among them, parallel single grinding wheel peripheral grinding mode, two straight edge grinding wheels(rough grinding and fine grinding) are installed at the same time for peripheral grinding.



技术领先 有效降低工厂刀片的采购成本

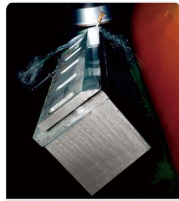
Leading technology, effectively reduce the purchase cost of factory blade



专用空心轴电机
Special hollow shaft motor
精度高，噪音小。
High precision and low noise.



电磁吸盘工作台
Electromagnetic suction table
吸力强劲均匀，稳定性高
Strong and uniform suction, high stability



磨刀片实样
Real sample of grinding blade
功能齐全，满足客户多种需求
Complete functions to meet the needs of customers

技术参数 TECHNICAL PARAMETERS

磨削刀片 Knife size	长度 Length	mm	1500-8000
	宽度 Width	mm	≤250
电磁工作台 Magnetic chuck	宽度 Width	mm	155-220
	角度 Angle	°	±90°
磨头电机 Grinding motor	功率 Power	KW	5.5/7.5/11
	转速 Rotating speed	r/min	1400
砂轮 Grinding wheel	直径 Diameter	mm	200/250
磨头架 Grinding head frame	左右 About	m/min	1-20
	功率 Power	KW	1.1
设备外形尺寸 Size	长度 Length	mm	磨削长度 Grinding length+1500
	宽度 Width	mm	980
	高度 Height	mm	1600

结构特点

- 整机采用高强度的龙门式焊接结构，整体结构坚固并且紧凑，且占地面积小，款式精致；床身采用具有抗扭曲和消震功能的内腔构造，经过热处理消除床身的内应力；用时宽畅的冷却液输送结构，从机床的一端迅速排除冷却液，方便清洗机床床身；所有操作集成在面板上进行。
- 磨头左右：磨头架自动往返调速变频驱动，斜齿轮齿条不传动，无极往返变速：0.02-20m/min，针对硬质合金刀、高速钢刀及普通刀片有不同的专用速度。
- 磨头上下：自动磨头进给量0.005-0.2mm，可设置总进刀量，单次进刀量，自动进刀精确，稳定，磨削到零位时自动停止进刀，开始光刀磨头可以通过专用伺服电机快速上下升降。
- 回转式电磁吸盘工作台，采用优质铜线圈，S型分布，吸力强劲均匀，同时稳定性高。
- 导轨带采用反向拉紧镶钢式矩形导轨，导轨带方便更换，确保精度不受因导轨带磨损的影响。
- 电气系统采用西门子控制模块，针对我司磨刀机的结构特点，严格按照综合布线的技术要求，提高系统、线路的质量和稳定性。
- 操作界面的设计简洁、实用，人性化的设计使得用户体验非常好。

STRUCTURAL FEATURES

- The whole machine adopts high-strength gantry type welding structure, with solid and compact overall structure, small floor area and exquisite style; the bed adopts the inner cavity structure with anti distortion and anti vibration function, which eliminates the internal stress of the bed after heat treatment; the cooling liquid conveying structure with wide use time can quickly discharge the cooling liquid from one end of the machine, which is convenient for cleaning the machine bed; all operations are integrated in the On the panel.
- Grinding head left and right: grinding head frame automatic round-trip speed control, frequency conversion drive, helical gear teeth not drive, stepless round-trip speed change: 0.02-20m/min, there are different special speeds for cemented carbide cutter, high-speed steel cutter and ordinary blade.
- Up and down of grinding head: the feed rate of automatic grinding head is 0.005-0.2mm. The total feed rate and single feed rate can be set. The automatic feed rate is accurate and stable. When grinding to zero position, the feed rate will stop automatically and the smooth knife grinding head can rise and fall quickly through special servo motor.
- Rotary electromagnetic sucker worktable adopts high quality copper coil, S-shape distribution, strong and uniform suction, and high stability.
- The guide belt adopts the reverse tension steel inlaid rectangular guide rail, which is convenient to replace, so as to ensure that the accuracy is not affected by the wear of the guide belt.
- The electrical system adopts Siemens control module. According to the structural characteristics of our knife grinder, we strictly follow the technical requirements of generic cabling to improve the quality and stability of the system and circuit.
- The design of the operation interface is simple and practical, and the humanized design makes the user experience very good.



应用行业

适用于各类涂布刮刀、陶瓷刮刀、油墨刮刀的开口以及刃磨。
同时也适用于刀具、钢带及各种非标刀具的开口和刃磨。

APPLICATION INDUSTRY

It is suitable for the opening and grinding of all kinds of coating scraper, ceramic scraper and ink scraper.
At the same time, it is also suitable for the opening and grinding of cutting tools, steel strip and various non-standard cutting tools.

技术参数 TECHNICAL PARAMETERS

数据 Data	规格 Specifications	MCD-K
项目 Project		MCD-K
研磨刮刀宽度 Width of grinding scraper (mm)		30-100
研磨刮刀长度 Length of grinding scraper (mm)		50-300
刮刀厚度范围 Scraper thickness range (mm)		0.25-1.2
研磨角度范围 Grinding angle range (°)		0-9
专用磨头转速 Speed of special grinding head (r/min)		2800-6000
各类电机总功率 Total power of various motors (KW)		7.5
磨削速度 Grinding speed (转/分)		200-1800
收放料轮直径 Diameter of take in and take out wheel (mm)		φ 300-700
主轴端面径向跳动 Radial runout of spindle end face (mm)		0.002-0.005
砂轮规格 Grinding wheel specification		φ 150 × φ 32 × 50
设备外形尺寸 Size (mm)		3600 × 1300 × 1700
机床重量 Machine weight (kg)		3000

结构特点

- MCD-K型刮刀磨床采用德国先进磨床技术，选用优质钢材制作而成，是研磨各类刮刀、钢带收卷的专业设备，具有结构紧凑、易操作、工作平稳、噪音小，磨削精度高等特点。
- 该机床选用牵拉式，可回转传动结构，磨削速度可进行调整，且线速度均匀。
- 该机床配置进口高精度专用电主轴，确保磨削精度。
- 该机器磨削角度控制在0-90°任意范围，最小进给为0.001，X、Y轴的集成位置有效显示装置，用来控制进给精度。
- 机器收放料采用可扩展伸缩轮控制，保证上下料方便。
- 该机床配置专用工作台，采用浮动式真空夹紧装置，确保磨削效率和精度达到设计要求。

STRUCTURAL FEATURES

- Mcd-k scraper grinder adopts advanced German grinder technology and is made of high-quality steel. It is a professional equipment for grinding all kinds of scraper and steel strip. It has the characteristics of compact structure, easy operation, stable operation, low noise and high grinding precision.
- The machine adopts the pull type, rotatable transmission structure, the grinding speed can be adjusted, and the linear speed is uniform.
- The machine is equipped with imported high-precision motorized spindle to ensure the grinding accuracy.
- The grinding angle of the machine is controlled in any range of 0-90° and the minimum feed is 0.001. The integrated position of x-axis and y-axis has a digital display device to control the feed accuracy.
- The machine adopts extensible telescopic wheel control to ensure the convenience of loading and unloading.
- The machine is equipped with a special worktable and a floating vacuum clamping device to ensure that the grinding efficiency and accuracy meet the design requirements.



收放轮
Retractable wheel
可伸缩放轮，运行稳定
Adjustable retracting and releasing wheel,
stable operation



控制台
Console
高精度磨削，确保磨削精度
High precision grinding ensures the grinding accuracy



专用高速磨头
Special high speed grinding head
双磨头研磨，研磨直线度 $\leq 0.015\text{mm/m}$
Double head grinding, grinding straightness
 $\leq 0.015\text{mm/m}$

结构特点

- MCD-C型刮刀磨床采用德国先进磨床技术，选用优质钢材制作而成，是研磨各类刮刀、钢带收卷的专业设备，具有结构紧凑、易操作、工作平稳、噪音小，磨削精度高等特点。
- 该机床选用牵拉式，可回转传动结构，磨削速度可进行调节，且线速度均匀。
- 该机床配置进口高精度专用电主轴，确保磨削精度。
- 该机器磨削角度控制在 $0-90^\circ$ 任意范围，最小进给为 0.001mm ，X、Y轴的集成位置有数显装置，用来控制进给精度。
- 机器收放料采用可扩展伸缩轮控制，保证上下料方便。
- 该机床配置专用工作台，采用浮动式真空夹紧装置，确保磨削效率和精度达到设计要求。

技术参数 TECHNICAL PARAMETERS

磨削刀片 Knife size	长度 Length	mm	3500-12000
	宽度 Width	mm	≤ 550
电磁工作台 Magnetic chuck	宽度 Width	mm	125-200
	角度 Angle	$^\circ$	$\pm 90^\circ$
磨头电机(左) Grinding motor (left)	功率 Power	KW	4.0
	转速 Rotating speed	r/min	1440
磨头电机(右) Grinding motor (right)	功率 Power	KW	2.2/1.5
	转速 Rotating speed	r/min	2800-6000
砂轮 Grinding wheel	直径 Diameter	mm	200/150
磨头架 Grinding head frame	左右 About	m/min	1-20
	功率 Power	KW	1.1
设备外形尺寸 Size	长度 Length	mm	磨削长度 Grinding length+2500
	宽度 Width	mm	1300
	高度 Height	mm	1600

STRUCTURAL FEATURES

- Mcd-C scraper grinder adopts advanced German grinder technology and is made of high-quality steel. It is a professional equipment for grinding all kinds of scraper and steel strip. It has the characteristics of compact structure, easy operation, stable operation, low noise and high grinding precision.
- The machine adopts the pull type, rotatable transmission structure, the grinding speed can be adjusted, and the linear speed is uniform.
- The machine is equipped with imported high-precision motorized spindle to ensure the grinding accuracy.
- The grinding angle of the machine is controlled in any range of $0-90^\circ$ and the minimum feed is 0.001mm . The integrated position of x-axis and y-axis has a digital display device to control the feed accuracy.
- The machine adopts extensible telescopic wheel control to ensure the convenience of loading and unloading.
- The machine is equipped with a special worktable and a floating vacuum clamping device to ensure that the grinding efficiency and accuracy meet the design requirements.



专用磨头电机
Special grinding head motor



压板装刀
pressing plate blade assembly

结构特点

- 床身采用铸铁浇铸，其强度高，刚性好。
- 工作台可调 $\pm 90^\circ$ ，压板装刀，稳定性好。
- 左右移动采用摆线针轮减速机链轮传动，运转平稳，传动比高。
- 专用磨头电机，磨削量大，寿命长，精度高。

STRUCTURAL FEATURES

- The bed is cast with cast iron, which has high strength and good rigidity.
- The worktable can be adjusted to $\pm 90^\circ$ with good stability.
- The left and right movement is driven by the chain wheel of cycloid pin wheel reducer, with stable operation and high transmission ratio.
- Special grinding head motor, large grinding capacity, long service life and high precision.

技术参数 TECHNICAL PARAMETERS

数据 Data	型号 Model	MDD-700A	MDD-800A	MDD-900A	MDD-1000A
项目 Project					
工作范围 Scope of work (mm)		700	800	900	1000
每次片数 Number of tablets per time (mm)		1-4片	1-4片	1-4片	1-4片
磨头功率 Grinding head power (KW)		1.1	1.5	1.5	1.5
磨头转速 Grinding head rotation speed (r/min)		2840	2800	2800	2800
外形尺寸 Overall dimensions (mm)		1060 × 580 × 1250	1160 × 600 × 1250	1260 × 600 × 1250	1360 × 600 × 1250



MYD-A小型圆刀磨刀机
small round knife grinder

应用行业

适用于圆切纸刀，分切圆刀，圆底刀，外圆，棒料的圆柱面，衬头圆柱阶梯等加尾座顶尖可磨长棒料外圆或锥度。

APPLICATION INDUSTRY

It is suitable for circular paper cutter, circular cutter, circular bottom cutter, outer circle, cylindrical surface of bar material, cylinder ladder of liner head, etc. with tailstock, the center can grind the outer circle or taper of bar material.

技术参数 TECHNICAL PARAMETERS

最大直径 Maximum diameter	280mm
最大加工长度 Max length	150mm
工作台纵向行程 Longitudinal stroke of worktable	230mm
工作台横向行程 Horizontal stroke of worktable	100mm
砂轮垂直升降距离 Vertical lifting distance of grinding wheel	130mm
磨头转速 Grinding head speed	2800转/分
磨头电机功率 Motor power of grinding head	0.55kw
砂轮磨头旋转角度 Rotation angle of grinding wheel head	360°
外圆修磨器主轴转速 Spindle speed of cylindrical grinder	300转/分
砂轮 grinding wheel	125 × 32 × 32 R2 金刚石砂轮 Diamond grinding wheel
	150 × 32 × 25 白刚玉砂轮 White fused alumina
净重 Net weight	180kg
外形尺寸 Dimensions	680 × 680 × 880mm



MYD型综合磨刀机
Comprehensive knife grinder

结构特点

- 本机床适用于磨削高速钢，硬质合金及其他材料的刀具。
- 配合各种附近可磨削，成形刀具、立铣刀、端铣刀、R型铣刀、圆柱铣刀、三面刃铣刀、单角度铣刀、铰刀、车刀、R型车刀、滚齿刀、钻头、复合钻、丝锥、雕刻刀、倒角刀、圆切纸刀、外圆、平面沟槽成形面等。
- 工作台采用燕尾轨道、丝杆传动、床台平稳、操作技巧、移动间隙可调节、提高加工刀具精度。
- 马达可360度旋转，增加机械的功能及研磨范围。
- 采用高强度FC30铸铁，长久保持机械精度。
- 本机可带工具箱及冷却系统，使刀具在研磨时不受损害。

STRUCTURAL FEATURES

- This machine is suitable for grinding high speed steel, hard alloy and other materials.
- With a variety of nearby grindable tools, such as forming tools, end mills, end mills, R-type mills, cylindrical mills, three side edge mills, single angle mills, reamers, turning tools, R-type turning tools, hobbing tools, drills, compound drills, taps, engraving tools, chamfering tools, circular paper cutters, excircles, plane grooves, forming surfaces, etc.
- The table adopts swallow tail track, screw drive, stable bed, operation skills, adjustable moving clearance, and improves the accuracy of machining tools.
- The motor can rotate 360 degrees to increase the function of the machine and the grinding range.
- High strength fc30 cast iron is used to keep mechanical accuracy for a long time.
- The machine can be equipped with tool box and cooling system, so that the tool will not be damaged during grinding.



圆刀片产品类别 ROUND BLADE PRODUCT CATEGORY

分切圆刀片、复卷圆底片、分条圆刀片、分条圆底刀、大圆刀、圆切刀、钨钢圆刀、多刃圆刀等。

Cutting round blade, rewinding round film, slitting round blade, slitting round bottom blade, large round blade, round cutter, tungsten steel round blade, multi blade round blade, etc.

接受加工定制，来图加工和非标定制。

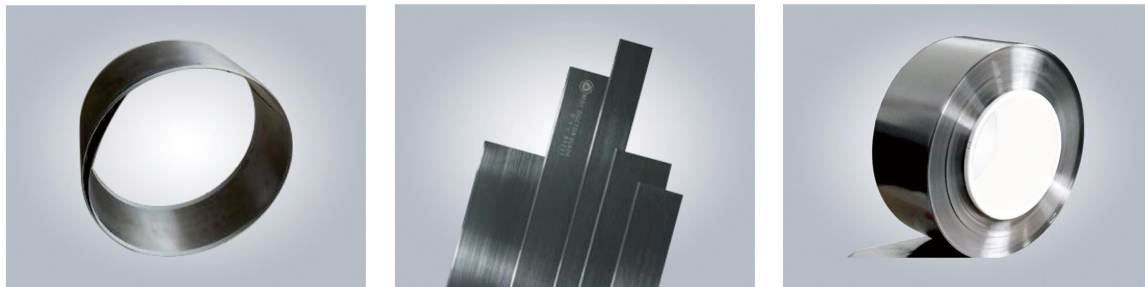
Accept processing customization, drawing processing and non-standard customization.

材质 MATERIAL

碳钢、高速钢、粉末冶金、超硬合金、钨钢等等。

Carbon steel, high speed steel, powder metallurgy, superhard alloy, tungsten steel and so on.

9CrSi、Cr12mov、w6mo5cr4v2、w18cr4v、日本SKH-71、SKH-51、SKH-11、德国K10、K20等。



种类 CATEGORIES

起皱刮刀、涂布刮刀、高分子聚乙烯碳纤维刮刀。

Wrinkle scraper, coating scraper, high molecular polyethylene carbon fiber scraper.

适用范围 SCOPE OF APPLICATION

造纸、印刷

Paper making and printing

专用耗材 Special consumables





生产装备 PRODUCTION EQUIPMENT

雄厚的技术，精良的设备

Strong technology, excellent equipment

贝斯特运用精良的生产设备，崭新的工业概念及强大的技术力量，生产出符合国际标准的高品质磨刀机产品，从而加快了企业的产业化速度。生产工具是生产力发展水平的标志，先进的生产设备代表了先进的生产力。

Best uses sophisticated production equipment, brand-new industrial concept and strong technical force to produce high-quality grinder products in line with international standards, thus speeding up the industrialization of the enterprise. Production tools are the symbol of productivity development level, and advanced production equipment represents advanced productivity.



