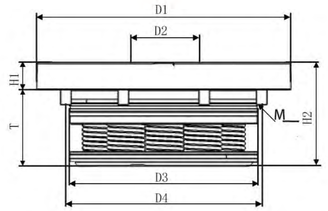
## 零点定位 Zero position

Installation type with built-in angle orientation

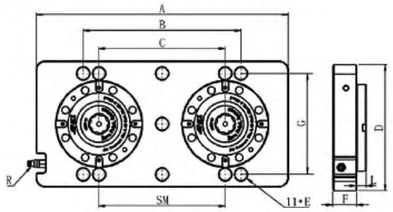
- Air pressure unlock
- Air pressure automaticly removing the chip
- Unlocking pressure:
  Q5 min. 6bar to max. 12bar;
  Q10 min. 5.5bar to max. 12bar;
  Q20 min. 4.5bar to max. 12bar
- Material: Hardened Stainless Steel
- Surface and piston hardening treatment
- Repeated positioning accuracy 0.005mm




| Model | Unlocking mode | Clamping force (KN) | Tension (KN) | Blowing dust | D1 | D2 | D3 | D4 | H1 | H2 | M | T | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LQNC-5 | AIR | 5 | 13 | √ | 78 | 18 | 58 | 65 | 8.5 | 30 | 8xM4 | 21.5 | 0.5 |
| LQNC-10 | AIR | 10 | 25 | √ | 112 | 22 | 78 | 88 | 10 | 35 | 6XM6 | 25 | 1.4 |
| LQNC-20 | AIR | 17 | 55 | √ | 138 | 32 | 102 | 115 | 15 | 49 | 8XM6 | 34 | 2.6 |

## 零点定位(两工)
### Zero position(Two-station)

- Air pressure/hydraulic unlocking;
- Air pressure automaticly removing the chip;
- Material: Die steel (#);
- Surface and piston hardening treatment;
- Repeated positioning accuracy < 0.005mm;

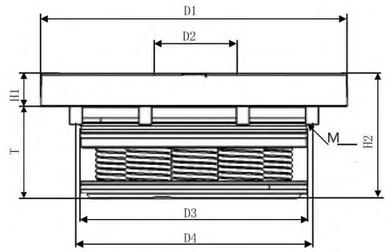



| Model | Unlocking mode | Clamping force (KN) | Tension (KN) | Blowing dust | A | B | C | D | ΦE | F | G | L | SM | R | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q2GWB-5 | AIR | 2x5 | 2x15 | √ | 198 | 150 | 100 | 98 | 11.5 | 25 | 85 | 8.5 | 100 | G1/8 | 3.8 |
| Q2GWB-10 | AIR | 2x10 | 2x25 | √ | 366 | 250 | 200 | 166 | 20 | 28 | 138 | 10 | 200 | G1/8 | 12.6 |
| Q2GWB-20 | AIR | 2x17 | 2x55 | √ | 398 | 250 | 200 | 198 | 20 | 38 | 164 | 15 | 200 | G1/8 | 22.7 |

## 零点定位(四工位)
### Zero position(Four-station)

four-station foundation plate

- Air pressure unlock
- Air pressure automaticly removing the chip
- Unlocking pressure:
  Q5 min. 6bar to max. 12bar;
  Q10 min. 5.5bar to max. 12bar;
  Q20 min. 4.5bar to max. 12bar
- Material: Hardened Stainless Steel
- Surface and piston hardening treatment
- Repeated positioning accuracy <0.005mm




| Model | UNLOCK MODE | KN | KN | BLOWING | D1 | D2 | D3 | D4 | H1 | H2 | M | T | Weight(kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LQNC-5 | AIR PRESSURE | 5 | 13 | √ | 78 | 18 | 58 | 65 | 8.5 | 30 | 8×M4 | 21.5 | 0.5 |
| LQNC-10 | AIR PRESSURE | 10 | 25 | √ | 112 | 22 | 78 | 88 | 10 | 35 | 6×M6 | 25 | 1.4 |
| LQNC-20 | AIR PRESSURE | 17 | 55 | √ | 138 | 32 | 102 | 115 | 15 | 49 | 8×M6 | 34 | 2.6 |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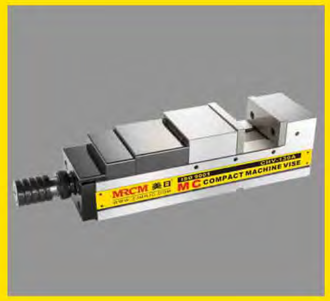
Company Web.

# MRCM 美日®

# MEIRI CHINA MACHINE

CNC TOOL GRINDER/RE-SHARPENER/GEAR GRINDER/CUTTER GRINDER/
CUTTER GRINDER/CHAMFER/TAPPING MACHINE/VISE/ZERO POSITIONING



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# MRCM 美日®

Re-sharpener/Chamfer/Tool grinder/tapping machine/Machine tool accessories

MEIRI CHINA MACHINE

MEIRI CHINA MACHINE

## About us

ZHEJIANG MEIRI INTELLIGENT MACHINERY CO., LTD,a manufacturer specialized in developing & producing small special-purpose tool grinders, precision machinery tools. We have participated in more than 900 professional exhibitions. Our products have been applied for 70 national patents, gained CE certification, sold to Germany, Japan, USA, Southeast Asia, Taiwan and many other areas.

Main products include: CNC tool grinder, drill bit re-sharpener, end mill re-sharpener, screw tap re-sharpener, lathe tool grinder, saw blade sharpener, universal cutter grinder, universal tool grinder, chamfer, tapping machine, vise,magentic drill machine,sucker,permanent lifting,and so on.

From research, development, management to sales, We implement the ISO 9001 quality control system strictly, continuously inventing, improving our management and economic performance, providing professional and high quality products to satisfy and serve our global customers' needs. We also win the honors of zhejiang science and technology innovation demonstration enterprises, science and technology innovation of enterprise and other honors.

The good day starts from MEIRI, we warmly welcome friends that both domestic and overseas to patronize!

## Enterprise Glory

ISO 14001 | ISO 9001 | OHSAS 18001 | CE CERTIFICATE | 70 NATIONAL PATENTS

Factory building

Showroom

Warehouse

Assembly workshop

13D

13A

MR-13A

## MR-13D 钻头研磨机
### DRILL BIT RE-SHARPENER

- 13D can grind the drill's front cutting lip. It can grind the drill's point angle, lip relief angle, and front cutting lip, the centre spot can be adjusted at random. Instead of centerdrill, it is accurate, escape of chips easily, drilling with a light heart.

| Model | 13A/D |
|---|---|
| Grinding Range | Φ3 - Φ13(Φ15) |
| Point angle | 95° -135° |
| Motor | 220V/120W/50Hz |
| Speed | 4400rpm |
| Dimesion | 32×18×19cm |
| Weight | 9kg |

Standard equipement:13# eleven collets;
Standard grinding wheel:CBN wheel (for HSS) .

MR-13B

20G

## MR-20G 钻头研磨机
### DRILL BIT RE-SHARPENER

- Portable drill grinder. It is accurate and with long service life.
- 20G drill bit sharpener can grind the drill's point angle,lip reliefang point thinning. It can control the quality precision and prolong the service life of the drill bit

| Model | 13B | 20G |
|---|---|---|
| Grinding Range | Φ3-Φ13 | Φ3 - Φ20 |
| Point angle | 95° -135° | 95° -140° |
| Motor | 220V/120W 50Hz | 220V/120W/50Hz |
| Speed | 4400rpm | 4400rpm |
| Dimesion | 32×18×19cm | 33×18×20cm |
| Weight | 9kg | 10kg |

Standard equipement:13# eleven collets;20G#eighteen collets.
Standard grinding wheel:CBN wheel (for HSS) .

G3/26D

26A

MR-26A

MR-26D

## MR-G3 复合钻头研磨机
### DRILL BIT RE-SHARPENER

- G3 Complex drill grinder can grind the twist drill from 3 to 32.
- G3/26D can grind the drill's front cutting lip. It can grind the drill's point angle, lip relief angle

| Model | 26A/D | G3 |
|---|---|---|
| Grinding Range | (Φ8)Φ13-Φ26(ϕ32) | Φ3 -ϕ26(Φ32) |
| Point angle | 95° -135° | 90° -135° |
| Power | 220V/50HZ/250W | 220V/50HZ/250W |
| Speed | 4400RPM | 4400RPM |
| Dimesion | 46×24×22cm | 40×26×30cm |
| Weight | 29kg | 36kg |

Standard equipment:26# fourteen collets;G3# twenty-four collets.
Standard grinding wheel:CBN wheel (for HSS) .

6A

13X

MR-13X

## MR-6A 小钻头研磨机
### SMALL DRILL BIT RE-SHARPENER

- The MR-6A can sharpen twist drill from Φ0.8 to Φ6 .
- 13X can sharpen the drill's point angle ,lip relief angle, adjust the center point size of lip relief angle. It is more accurate to instead of center drill, and the accuracy can be controled in 0.04mm.

| Model | 13X | 6A |
|---|---|---|
| Range | Φ2-Φ6 | (Φ0.8)Φ1-Φ6 |
| Point angle | 100° (95° )~135° | 90° -150° |
| Power | 120W | 250W |
| Speed | 4400RMP | 4400rpm |
| Dimesion | 32×18×19cm | 62×34×33cm |
| Weight | 9kg | 40kg |

13Q WHEEL

13T

MR-13T

## MR-13Q 薄板钻研磨机
SHEET METAL DRILL RE-SHARPENER

- 13T can grind the stepped drill.13Q can grind the sheet metal drill .
- It is accurate and durable.

| Model | 13Q/13T |
|---|---|
| Range | Ø4-Ø14 |
| Point angle | 118° -140° |
| Power | 220V 160W |
| Speed | 4400RPM |
| Dimesion | 35×22.5×23.5cm |
| Weight | 13kg |

Standard equipment: 13T/13Q# eleven collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-13F 粉末冶金钻研磨机
NACHI DRILL BIT RE-SHARPENER

- Portable drill grinder. it is accurate and with long service life.
- The patent product can sharpen the point angle (top Angle), back bevel Angle and chip removal groove. The chip removal groove and center static point can be adjusted.

| Model | 13F |
|---|---|
| Range | Ø4-Ø13 |
| Point angle | 135° |
| Power | 120W |
| Speed | 4400rpm |
| Dimension/Weight | 30×14.5×18cm/13kg |

Standard equipment: 13F# ten collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-13S 三斜面钻头研磨机
DG DRILL BIT RE-SHARPENER

- 13S for the left and right grinding, right for grinding the drill's point angle and front cutting lip, left for grinding .the drill's double back angle.

| Model | 13S |
|---|---|
| Grinding range | Ø4-Ø14 |
| Point Angle | 95° ~135° |
| Power | AC220V |
| Motor | 160W |
| Speed | 4400RPM |
| Dimension | 31×20×26cm |
| Weight | 17kg |

Standard equipement:13S# eleven collets.
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-13C 倒角钻头研磨机
DRILL BIT RE-SHARPENER

- 13C Can Grinding the drill's point angle, lip relief angle. It is easy to remove the chips and chamfer

| Model | 13C |
|---|---|
| Grinding range | Ø3-Ø13 |
| Point Angle | 90° ~140° |
| Power | 220V 50/60HZ |
| Speed | 4400RPM |
| Dimension | 32×22.5×23.5cm |
| Weight | 10kg |

Standard equipement:13C# eleven collets.
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-X1 端铣刀研磨机
END MILL RE-SHARPENER

- X1 portable end mill grinder, can grind 2-flute, 3-flute,4-flute, also can open the Tungsten bar's cutting edge directly. It is easy to operate, with skill to grind

| Model | X1 |
|---|---|
| Range | Ø4-Ø14 |
| Power | 220V/200W |
| Speed | 4400RPM |
| Dimesion | 35×23×24cm |
| Weight | 14kg |

Standard equipment: six collets.
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

MR-X3A

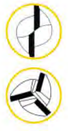
MR-X5

## MR-X3 端铣刀研磨机
END MILL RE-SHARPENER

- X3/X3A/X5 portable end mill grinder, can grind 2-flute, 3-flute,4-flute
- X3/X3A/X5 point angle can be adjusted from 0° to 5°.

| Model | X3/X3A | X5 |
|---|---|---|
| Range | Ø4-Ø14/Ø20 | Ø12-Ø30(Ø32) |
| Power | 220V/160W | 220V/250W |
| Speed | 4400RPM | 4400RPM |
| Dimesion | 35×23×24cm | 40×28×31cm |
| Weight | 14kg | 28kg |

Standard equipment: X3# six collets;X5# ten collets. X3A nine collets
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).



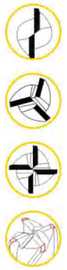
MR-X7

## MR-X6 螺旋铣刀研磨机
SPIRAL END MILL RE-SHARPENER

- Independent developing X6 includes the function of X3, and can also grind peripheral cutting edge.
- With diamond grinding wheel.

| Model | X6/X6A | X7 |
|---|---|---|
| Range | Ø4-Ø14(Ø20) | Ø12-Ø30 |
| Power | 220V/160W | 220V/250W |
| Speed | 4400rpm | 4400rpm |
| Dimesion | 61×25×32cm | 56×32×38cm |
| Weight | 25kg /27kg | 44kg |

Standard equipment:X6 standard with 11 collets;X6A standard with 17 collets;
X7 standard with ten collets.
Standard grinding wheel:CBN wheel (for HSS ) or SD wheel (for carbide).



## MR-X6R 圆鼻铣刀研磨机
CORNER RADIUS END MILL RE-SHARPENER

- The machine is specialized in re-sharpening end mill and corner radius end mill, it can grind 2-flute, 3-flute and 4-flute. Also can open the Tungsten bar's cutting edge directly.It can grind the radius of corner radius end mill as R0.3,R0.5, R0.8,R1 or R0.5,R1 or R1.5, R2. If there is any other radius, we can make the different grinding wheel.

| Model | X6R |
|---|---|
| Grinding Range | ϕ4-ϕ14(ϕ20) |
| Grinding Radius | R0.5, R1orR1.5,R2orR0.3,R0.5,R0.8,R1 |
| Power | 220V/160W |
| Speed | 4400rpm |
| Dimension/Weight | 41×24×30cm/22kg |

X6R standard with 6 collets.
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-X8 球头铣刀研磨机
### BALL END MILL RE-SHARPENER

- It is the special grinder for ball end mill.
- Grinding is accurate and rapid, easy operation, with no skill requirement to grind.
- With diamond grinding wheel, It can be equipped directly with an accurate angle and long service life.

| Model | X8 |
|---|---|
| Range | ϕ6-ϕ20 |
| Power | 220V/250W |
| Speed | 4400rpm |
| Dimesion | 60×29×37cm |
| Weight | 40kg |

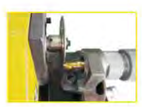
Standard equipment:X8# eight collets.
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-F4/F6 铣刀・钻头复合机
### COMPLEX RE-SHARPENER OF MILL & DRILL

- Complex re-sharpener of end mill & drill, one machine with two function, easy to use, economical and practical, with no skill requirement to grind.
- F4=13D+ X3

| Model | Drill | Mill |
|---|---|---|
| Range | Ø3-Ø14 | Ø4-Ø14 |
| Point angle | 95° -135° | 0° -5° |
| Power | 220V/160W | 220V/160W |
| Speed | 4400rpm | 4400rpm |
| Dimension/Weight | 35×23×30cm/21kg | 35×23×30cm/21kg |

Standard equipment:F4 twelve collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).



## MR-X4 切断研磨机
### CUTTING MACHINE

- X4 is the specialized machine for cutting the tools.

| Model | X4 |
|---|---|
| Range | Ø4-Ø14 |
| Power | 220V 160W |
| Speed | 4400rpm |
| Dimesion | 35×23×27cm |
| Weight | 12kg |

Standard equipment:X4# eleven collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-13W 钨棒研磨机
### TUNGSTEN BAR GRINDER

- 13W Tungsten bar grinder can adjust point angle from 60° to 90°(0° to 180°)

| Model | 13W |
|---|---|
| Range | Ø4-Ø14 |
| Power | 220V 160W |
| Speed | 4400rpm |
| Dimesion | 35x23x27cm |
| Weight | 12KG |

Standard equipment:13W# eleven collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-S30 六轴数控工具磨床
### SIX AXIS CNC TOOL GRINDER

- MR-S30 is a six axis CNC tool grinder, which is specially designed for cutting tools' users. PLC+touch screen control, make the operation simply and intuitively, satisfy any angle's tool grinding. The system has a set of grinding parameters for drills and end mills. At the same time, the grinding parameters can be customized by hand wheels, by replacing various shapes' grinding wheel to grind various tools.

| Model | DRILL | END MILL | TAP |
|---|---|---|---|
| Grinding Range | 1-20mm | 1-20mm | 1-20mm |
| Point angle | 0° -180° | | |
| Cooling mode | water-cooling | | |
| Grinding accuracy | 0.02mm | | |
| Speed | 4400rpm | | |
| Power | 550W | | |
| Dimension/Weight | 1000X900X1690mm/195kg | | |

## MR-Y3C 丝攻研磨机
### SCREW TAP RE-SHARPENER

- Portable screw tap grinder can grind 3-flute, 4-flute tap. Choosing can grind 5-flute and 2-flute tap.
- Y3C/Y5C can grind all front cutting face, also include the front cutting lip.

| Model | Y3/Y3C | Y5C |
|---|---|---|
| Range | M5-M20 | M16-M42 |
| Point Angle | 5° -30° | 5° -30° |
| Power | 220V/160W | 220V/250W |
| Speed | 4400rpm | 4400rpm |
| Dimesion | 36×27×30.5cm | 40×30×31cm |
| Weight | 12/16kg | 26kg |

Standard equipment: Y3C six collets; Y5C nine collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-A5 丝攻・钻头复合机
### SCREW TAP RE-SHARPENER

- A5 is the complex re-sharpener of screw tap and drill.
- One machine with two function, easy to use, economice price.
- A5=13D+ Y3C

| Model | Screw tap | Drill |
|---|---|---|
| Range | M5-M20 | Ø4-Ø14 |
| Point angle | 5° -30° | 100° -135° |
| Power | 220V/160W | |
| Speed | 4400rpm | |
| Dimension/Weight | 36×29.5×28cm/21kg | |

Standard equipment:A4 eleven collets;
Standard grinding wheel:CBN wheel (for HSS) or SD wheel (for carbide).

## MR-60A/80A 万能钻头刃磨机
### UNIVERSAL DRILL BIT GRINDER

- The MR-60A can sharpen Ø3 to Ø60(Ø80) all kinds of drills, such as standard twist drills, bottoming drills, multiple diameter drills, four fact drills, wood drills, spot facer.

| Model | 60A/80A |
|---|---|
| Grinding Range | Ø3-Ø60(Ø80) |
| Point angle | 30° -180° |
| Power | 220V 50Hz 550W |
| Speed | 2800rpm |
| Dimension/Weight | 58×41×45cm/145kg |

## MR-R200 手提强力倒角机
### PORTABLE CHAMFER

- Suitable for any length of non-heat treatment workpiece and any other parts which are hard to move. It is easy to operate, take less time.
- Standard square alloy bit (model 4130511).

| Model | R200 | R200A |
|---|---|---|
| Chamfering range | 0-6mm | 0-9mm |
| Chamfering angle | 15° -45° | 15° -45° |
| Power | 380V 750W | 220V 750W |
| Speed | 2800rpm | 3000-6000rpm |
| Dimension/Weight | 38×24×24.5cm/13kg | |

Notice: The Max.chamfering range is 2mm to 3mm everytime.

## SKF-15 坡口倒角机
### PIPE BEVELING MACHINE

- SKF-15 chamfering machine is specially designed for plate beveling and chamfering. It is a convenient and dexterous machine. It can be used for deburring and chamfering of metal sheet before welding, etc. The machine is simple and safe to use, suitable for steel, cast iron, hard plastics, non-ferrous metals and other materials.

| Model | SKF-15 |
|---|---|
| Maximum cutting edge width | 15mm(adjustable) |
| Chamfering angle | 30-60°(adjustable) |
| Rotation speed | 2870 r/min |
| Power | 380V/1.1KW |
| Weight | 18KG |

## MR-R300 侧面倒角机
### SIDE CHAMFER

- R300 is suitable for non-heat treatment workpiece, for example various mould, parts of machine's rubdown.
- R500 Adopting the grinding wheel, suitable for heat treatment of workpiece.

| Model | R300 | R500 |
|---|---|---|
| Chanfering height | 0-3mm | 0-3mm |
| Chamfering angle | 15-45° | 45° |
| Power | 380V 550W | 380V 550W |
| Speed | 2800rpm | 2800rpm |
| Dimension/Weight | 54×39×30cm/38kg | 53×42×39cm/36kg |

## MR-R300D 高速圆弧倒角机
### ARC ANGLE CHAMFER

- Applying to non-heat treatment workpiece for such as various mould, part of machine's chamfer.
- R300D is the complex chamfering machine for R angle and C angle.

| Model | R300D |
|---|---|
| Chamfering range | R1-R4/C3 |
| Power | 220V 550W |
| Speed | 3000-6000rpm |
| Dimension/Weight | 40×30×22cm/27kg |

## MR-R800B 复合倒角机
### COMPLEX CHAMFER

- It`s suitable for reqular and irreqular parts of mechanism or mould. The angle of R800B straight line part can be adjust from 15 degree to 45 degree.

| Model | R800B | | | |
|---|---|---|---|---|
| Chamfering range | Straight | 0-3mm | Curved | 0-2.5mm |
| Chamfering angle | Straight | 15° -45° | Curved | 45° |
| | Curved | 45° | Straight | 45° |
| Power | 380V 750W | | | |
| Speed | Straight | 8500rpm | Curved | 12000rpm |
| Dimension/Weight | 52×44×69cm/68kg | | | |

The machine adopt Swedish SKF bearing and imported digital cuttings.

## 永磁起重器
### PERMANENT LIFTER

- Compact structure,light weight,easy to operate.
- Without electricity,magnetic permanent,use safety,can be in field operation.
- Hight safety coefficient,maximum pulled off force in3-3.5 times,insurance device,to prevent wrong operation.
- Maintenance-free design,long service life.
- "V" groove design,can suck or circular workpiece.

| Model | Rated capacity (kg) | size(mm) | | | | | Maximum pulled off (N) | Cylindrical work limits | | Self-weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | B | H | R | Le | | Diameter(mm) | weight | |
| PML-300 | 300 | 192 | 92 | 91 | 150 | 154 | 10500 | ≥60 | ≤100 | 9.6 |
| PML-600 | 600 | 314 | 102 | 92 | 216 | 267 | 18000 | ≥70 | ≤00 | 18 |
| PML-1000 | 1000 | 363 | 142 | 118 | 307 | 342 | 30000 | ≥90 | ≤300 | 37 |
| PML-2000 | 2000 | 537 | 165 | 164 | 367 | 482 | 60000 | ≥120 | ≤600 | 120 |

## 超强永磁吸盘
### SUPER PERMANENT MAGNETIC CHUCK

- Magnetic force produced by high energy materials,no time limit,no energy consumption,no heat,environmental safety,the operation is simple and practical.
- Stacking of strong attraction,magnetic,according to the workpiece contact area incerases,can be used to power the milling and drilling.
- Super strong suction cup panel big rigidity,good stability,in use process dose not produce distortion,which can realize percision machining.
- Simple mechanical switch,do not need power and make the magnetic workpiece falls off.
- Simple quick replacement of the clamping workpiece,workpiece clamping adjust working hours,to realize five surface processing,improve work efficiency by 80%.

| Model | size(mm) | | | Magnetic block (PCS) | Magnetic force block (kgf) | Total suction (kgf) |
|---|---|---|---|---|---|---|
| | A | B | H | | | |
| 2025B | 200 | 256 | 50 | 56 | 25 | 1400 |
| 2025A | 253 | 252 | 90 | 90 | | 2250 |
| 2040A | 200 | 400 | 80 | 136 | | 3400 |
| 3030A | 300 | 300 | 90 | 132 | | 3300 |
| 3040A | 300 | 400 | 90 | 176 | | 4400 |

## 真空吸盘
### VACUNM CHUCK

- The company vacuum chucker USES is"localization" ten principles,without vacuum pump,simply to the supply air compressor can be adsorbed.
- Strong magnetic attraction power and automatic pressure maintaining,can maintain the holding function under power to snuff out.
- Start fast,ventilation can achieve working state 4 to 6 seconds.
- Wide application,flat workpiece without being limited by the material.
- The operation is simple quick keys.
- Processed products size at the bottom of the plane size is not less than 60mm*60mm.

| Model | size(mm) | Groove size | weight(kg) |
|---|---|---|---|
| 3030 | 300*300*45 | 16.2*16.2 | 10 |
| 3040 | 300*300*45 | 16.2*16.2 | 14 |
| 4040 | 400*400*45 | 16.2*16.2 | 18 |
| 4060 | 400*600*45 | 16.2*16.2 | 28 |

## MR-Q10 锯片磨齿机
### SAW BLADE SHARPENER

- Without model plate, can grind the teeth automatically. Adjustable speed, it is fast and accurate. It can grind the teeth and shape. It also can keep balance and efficiently.

| Model | Q10 |
|---|---|
| Saw blade Dia. | Ø60-Ø350(Ø400) |
| Voltage/Power | 220V/250W/60W(T) |
| Speed | 4000rpm/45teeth/min |
| Dimension | 62×62×72cm |
| Weight | 56kg |

MR-Q12

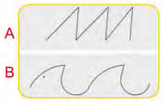
## MR-Q5 锯片磨齿机
### SAW BLADE SHARPENER

- It can sharpen carbide and high speed steel saw blade. With accurate setting and high speed, can grind the teeth automatically. Adjustable speed, it is fast and accurate.
- Q5 get our China national patent, the motor can rotate up and down which can sharpen gear front and back angles (or chamfer).

| Model | Q5 |
|---|---|
| Saw blade dia. | Ø60（Ø25）－Ø300（Ø350）（customize） |
| Speed | 45teeth/min |
| Voltage | 220V/380V |
| Power | 550W/60W(T) |
| Dimension | 65X65X105CM |
| Weight | 103kg |

TYPE A

TYPE B



Dimesion A can grind the saw blade that cut copper and aluminum pipe; Type B can grind the ordinary circle-arc saw blade.

## MR-S450 圆弧锯片磨齿机
### CIRCULAR-ARC SAW BLADE SHARPENER

- S450 can be easy to adjust sawteeth`s cutting angle, back clearance angle, and teeth space. It is fast and accurate to grind the blade sharply. Grinding wheel can swing up and down, which can grind the chamfer angle without replacing the wheel.

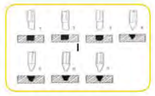
| Model | S450 |
|---|---|
| Saw blade diameter | Ø50-Ø450 |
| Speed | 45~180teeth/min |
| Teeth space/Tooth depth | (max)28mm (deepest)8mm |
| Cutting angle | 0° ~30° |
| Saw thickness | (thickest)8mm |
| Dimension | 132×80×80cm |
| Weight | 130kg |

## MR-S380 带锯片磨齿机
### BAND SAW BLADE SHARPENER

- It can grind various thin wood saw blade, double metal saw blade, carbide steel saw blade and so on.
  MR-S380 is a new multifunction and patent machine that can grind changeable teeth (tip) of band saw blade ,such as 2/3, 3/4, 4/6 etc.

| Model | S380 |
|---|---|
| Saw blade width | 16-45mm (customized 60mm) |
| Teeth space | 3-30mm |
| Feed speed | 40-60teeth/min |
| Grinding wheel | 150mm |
| Power/Speed | 380V/220V/550W/2800RPM |
| Dimension/Weight | 60x50x100cm/110kg |

MR-U2/20



## MR-U3 万能磨刀机
### UNIVERSAL CUTTER GRINDER

- The machine is necessary of CNC carving machine and milling machine.
- The universal cutter grinder U2 with the attachments can grind drill bit, lathe tool and ball cutter. The max. holding diameter: ϕ18mm

| Model | U30/U2/20 |
|---|---|
| Collet diamenter | Ø3-Ø18 |
| Grinding wheel | Ø100×50×Ø20 |
| Power | 220V/380V 50Hz |
| Speed | 5000rpm |
| Dimension/Weight | 55×45×47cm/50kg |

Lathe tool End mill Drill bit

## MR-M3 数控刀片・车刀研磨机
### BLADE & LATHE TOOL GRINDER

- MR-M3 is suitable to grind many kinds of cutters, such as tipped tool, boring cutter, plough cutter, and so on. It is a perfect grinding tool instead of hand grinding.
- Worktable uses high precision cross roiling guide rails, good movement, high stability, steady bed platform, dexterous operation.

| Model | M3 |
|---|---|
| Arc angle | R0.2-R10 |
| About worktable diameter | 140mm |
| Voltage | 380V 250W |
| Speed | 2800rpm |
| Dimesion | 44×34×44cm |
| Weight | 78kg |

## MR-M4 数控刀片・车刀研磨机
### BLADE & LATHE TOOL GRINDER

- M4 uses the camera to detect the sharpening tool, which can detect the length, angle and arbitrary arc radius of (R0.5-R2.5).
- It is specially developed for the grinding of PCD inserts, alloy inserts, CBN inserts, etc.

| Model | M4 |
|---|---|
| Tool height range | 5 - 30mm |
| Tool nose arc range | R0.05 - R2.5 |
| Tool nose angle | (35<a<180)° |
| Voltage | 380V 50/60HZ |
| Speed | 7600rpm |
| Weight | 150kg |

MR-6025

50E Spiral mill・ball cutter grinder

50K Drill bit・screw tap grinder

50D End-milling cutter grinder

## MR-600F 万能工具磨床
### UNIVERSAL TOOL GRINDER

- The worktable of 600 uses the dovetail guide rail,good rigidity; And 600F uses two high precision straight line roiling guide rails, steady bed platform, good movement. 6025 can grind in hole and outer annulus.
- Standard accessories can grind slot miller, face and side cutter, lathe tool, hobbing cutter, reamer bit etc.
- Choosing 50E can grind spiral milling cutter, ball end mill.
- Choosing 50K can grind drill bit, screw tap.

| Model | 600/600F | 6025 |
|---|---|---|
| About worktable diameter | 300mm | 350mm |
| About worktable traveling schedule | 150mm | |
| Worktable area | 130X550mm | 130X675mm |
| Grinding wheel size | Ø125×50×Ø32mm | Ø150×16×Ø32mm |
| Power/Speed | 2800RPM | 5000RPM |
| Motor | 3/4HP 220V/380V | |
| Dimension | 70×63×63cm | 73×71×72cm |

## MR-K2空心钻研磨机
### CORE DRILL GRINDER

- Core drill grinder uses the easiest way to grind the core dill. with the powerful and precise construction,low consumpiton,ergonomic design and easy opertaion

| Model | K2 |
|---|---|
| Grinding Head Movement | 70mm |
| Hole Diameter Of Center Drill Clamper | 19.05mm |
| Headstock Travel | 170mm |
| Horizontal Rotation Of The Holder | 0° -90° |
| Vertical Rotation Of Headstock | 0° -90° |
| Grinding Wheel Specifications(outer Diameter *inner Hole) | Ø125x Ø 25mm |
| Rotatry Speed Of Wheel | 2800rpm |
| Motor Power Of The Grinding Head | 0.37kw,1/2HP |
| G.w./n.w. | 30KG/33KG |
| Machine Size | 410*275*280MM |
| Packing Size | 500*320*320MM |

MR-V9228

## MR- V9223磁座钻
### MAGNETIC DRILL MACHINE

- Magnetic drill machine is applicable to steel structure drilling,shipping building,paper making,bridge construction,mechanical equipment installation,steel construct engineering,subway construction,large equipment maintenance and all the pipeline engineering.

| Model | V9223 | V9228 |
|---|---|---|
| The max.drilling dia. | 23mm | 28mm |
| Max. magnetic force | 12000N | 13000N |
| Max. turning Angle | 70˝ | 70˝ |
| The max. radial displacement | 30mm | 30mm |
| The max.depth of drilling | 210mm | 210mm |
| Rated speed | 300r/min | 235r/min |
| Power | 1000W 220V | 1200W 380V |
| Weight | 28kg | 29kg |

DRILLING &TAPPING

## MR-D13/16/23/28多功能磁座钻
### MAGNETIC DRILL MACHINE

- Magnetic drill machine is applicable to steel structure drilling, shipping building,paper making,bridge construction,mechanical equipment installation,steel construct engineering,subway construction,large equipment maintenance and all the pipeline engineering.

| Model | D13 | D16 | D23 | D28 |
|---|---|---|---|---|
| Twist drill | 13mm | 16mm | 23mm | 28mm |
| Voltage | 110/220v | 110/220v | 110/220v | 110/220v |
| Frequency | 50-60HZ | 50-60HZ | 50-60HZ | 50-60HZ |
| Power | 1150W | 1380W | 1400W | 1680W |
| Max. attraction | 11000N | 11500N | 16500N | 17800N |
| No-load speed | 800rpm | 670rpm | 470rpm | 340rpm |
| Depth of drilling | 30mm | 30mm | 40mm | 50mm |
| Max. travel | 120mm | 120mm | 180mm | 200mm |
| N.W/G.W | 10/12kg | 11/13kg | 18/20kg | 18.5/20.5kg |

## MR-B13/16/23/28 磁座钻
### MAGNETIC DRILL MACHINE

- Magnetic drill machine is applicable to steel structure drilling, shipping building,paper making,bridge construction,mechanical equipment installation,steel construct engineering,subway construction,large equipment maintenance and all the pipeline engineering.

| Model | B13 | B16 | B23 | B28 |
|---|---|---|---|---|
| Twist drill | 13mm | 16mm | 23mm | 28mm |
| Voltage | 110/220v | 110/220v | 110/220v | 110/220v |
| Frequency | 50-60HZ | 50-60HZ | 50-60HZ | 50-60HZ |
| Power | 1150W | 1380W | 1400W | 1680W |
| Max. attraction | 11000N | 11500N | 17000N | 18800N |
| No-load speed | 100-800rpm | 0-670rpm | 100-470rpm | 0-340rpm |
| Depth of drilling | 30mm | 30mm | 40mm | 50mm |
| Max. travel | 120mm | 120mm | 180mm | 200mm |
| N.W/G.W | 10/12kg | 11/13kg | 18/20kg | 19.5/21.5kg |

Universal head

Vertical head

## MR-DS16/DS30按键电动攻丝机
### ELECTRIC TAPPING MACHINE(PUSH BOTTON)

- With the function of quiet, stable, power saving, high speed with low torque, low speed with high torque, and have the protection of over voltage, over current, over load, etc.

| Model | DS16 | DS30 | DS36 |
|---|---|---|---|
| Tapping Range | M3-M16 | M6-M30 | M6-M36 |
| Speed | 0-312rpm | 120rpm | 140rpm |
| Power | 220V/800W | 220V/1200W | 220V/1200W |
| Weight | 27kg | 45kg | 50kg |

DS16 STANDARD ISO COLLETS: M3,M4,M5,M6-8,M10,M12,M14,M16
DS30 STANDARD ISO COLLETS: M6-8, M10, M12, M14, M16, M18-20, M22, M24, M27-30
DS36 STANDARD ISO COLLETS:M6-8, M10, M12, M14, M16, M18-20, M22, M24, M27-30, M33, M36

Universal head

Vertical head

## MR-DS16/DS30 触控电动攻丝机
### ELECTRIC TAPPING MACHINE(TOUCH SCREEN)

- With the function of quiet, stable, power saving, high speed with low torque, low speed with high torque, and have the protection of over voltage, over current, over load, etc.

| Model | DS16 | DS30 | DS36 |
|---|---|---|---|
| Tapping Range | M3-M16 | M6-M30 | M6-M36 |
| Speed | 0-312rpm | 120rpm | 140rpm |
| Power | 220V/800W | 220V/1200W | 220V/1200W |
| Weight | 27kg | 45kg | 50kg |

DS16 STANDARD ISO COLLETS: M3,M4,M5,M6-8,M10,M12,M14,M16
DS30 STANDARD ISO COLLETS: M6-8, M10, M12, M14, M16, M18-20, M22, M24, M27-30
DS36 STANDARD ISO COLLETS:M6-8, M10, M12, M14, M16, M18-20, M22, M24, M27-30, M33, M36

## 工作台
### ELECTRIC TAPPING MACHINE TABLE

- Optional size:800*500mm,900*600mm

| MODEL | TABLE 1 | TABLE 2 |
|---|---|---|
| Size | 800X500MM | 900X600MM |
| Weight | 70KG | 85KG |

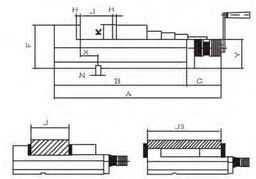
## 吸盘
### MAGNETIC CHUCK

- With optional magnetic base work in any big workpiece surface

| Model | Rated capacity (kg) | Maximum pulled off (N) | Cylindrical work limits | | Self-weight (kg) |
|---|---|---|---|---|---|
| | | | Diameter(mm) | weight | |
| PML-300 | 300 | 10500 | ≥60 | ≤100 | 9.6 |
| PML-600 | 600 | 18000 | ≥70 | ≤00 | 18 |

## MC 角固式/肯倍得式精密油压虎钳
### MC COMPACT MECHANICAL/HYDRAULIC VISE

- Holding Work-piece firmly in single and multiple vises setup.
- The jaws adopting the structure of semi-cycle with low oblique angle, which can eliminate the floating of jaws and incline of the tools.
- The body of clamp adopting anti-high tension ball graphite cast iron (FCD60-60kgs/mm)(80, 000psi), it is not easy to deform.

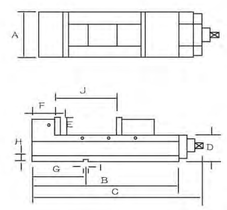


Unit: mm

| Model | A | B | C | D | F | H | J | J3 | K | N | X | Y | Clamping force | Weight | Packing size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHV-100A | 475 | 340 | 135 | 101 | 133 | 15 | 0-125 | 125-320 | 48 | 18 | 45 | 85 | 36KN(3528kgf) | 27kg | 600x220x185 |
| CHV-130A | 540 | 405 | 135 | 131 | 150 | 15 | 0-180 | 180-380 | 55 | 18 | 65 | 95 | 46KN(4508kgf) | 40kg | 665x250x205 |
| CHV-160A | 630 | 495 | 135 | 161 | 163 | 15 | 0-240 | 240-470 | 58 | 18 | 65 | 105 | 56KN(5488kgf) | 60kg | 760x280x215 |
| CHV-200A | 750 | 570 | 135 | 201 | 173 | 15 | 0-280 | 280-540 | 63 | 18 | 82 | 115 | 71KN(6958kgf) | 81kg | 860x320x225 |

## MC 倍力虎钳
### MC DOUBLE FORCE VISE

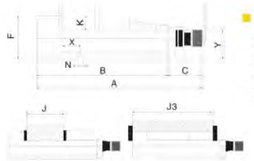
- MC double force pressure vice, it is suitable for vertical and horizontal integrated cutting machine with FMS system to do heavy cutting.
- Easy clamping, efficient and labor-saving, can reduce the labor intensity of employees.
- The high force mechanism can set the clamping force at any time, andrepeated use many times to maintain a considerable clamping force, and consistent accuracy, and designed to have clamping force overloadprotection device.
- Vice with anti chip design, in order to prevent the processing of iron filings into the drive screw and vice internal, not easy to remove.
- Big opening, it is suitable for large-scale work to do precision machining.



Unit: mm

| Model | A | B | C | D | E | F | G | H | I | J | J1 | J2 | J3 | G.W. | POWER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MPL-130B | 130 | 450 | 580 | 95 | 50 | 85 | 135 | 23 | 16 | 240 | 285 | 320 | 405 | 48kg | 4500kgf |
| MPL-160B | 160 | 550 | 680 | 100 | 60 | 103 | 200 | 23 | 16 | 300 | 380 | 400 | 500 | 66kg | 5000kgf |

## 角固式机械虎钳
### COMPACT MECHANICAL VISE



- The verticality of the jaw to the machine tool table is 50:0.02, which is made of high quality alloy steel. Surface hardening treatment, hardness HRC58-62, used for milling, boring, drilling and grinding of CNC machine tools, machining centers and general purpose machine tools.

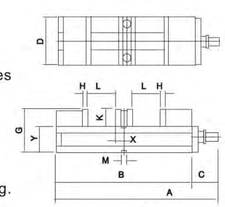
TECHNICAL PARAMETER

UNIT: mm

| Model | A | B | C | D | E | F | J | J3 | K | N | X | Y | Clamping force | Weight | Packing size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JX-100A | 457 | 340 | 135 | 101 | 133 | 15 | 0-125 | 125-320 | 48 | 18 | 45 | 85 | 36KN(3528KGF) | 27KG | 600*220*185 |
| JX-130A | 540 | 405 | 135 | 131 | 150 | 15 | 0-180 | 180-380 | 48 | 18 | 45 | 85 | 46KN(4508KGF) | 40KG | 665*250*205 |
| JX-160A | 630 | 495 | 135 | 161 | 163 | 15 | 0-240 | 240-470 | 58 | 18 | 65 | 105 | 56KN(5488KGF) | 60KG | 760*280*215 |
| JX-200A | 750 | 570 | 135 | 201 | 173 | 15 | 0-280 | 280-540 | 63 | 18 | 82 | 115 | 71KN(6958KGF) | 81KG | 860*320*225 |

## MC 双加紧/角固式精密机械虎钳
### MC 2LN 1DOUBLE LOCK & ANGLOCK MACHINE VISE

- Double clamping mechanism, one side can be freely adjusted with the opening range, can do two Different sizes of workpieces are processed at the same time.The working error on both sides can be automatically eliminated by ±1.5mm, and the clamping force on both sides All remain the same.
- The movable sides on both sides are designed with an angle-locking mechanism to prevent the workpiece from floating.



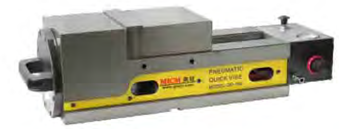
UNIT: mm

| Model | A | B | C | D | G | H | L EACH SIDE | | M | K | X | Y | WEIGHT | PACKAGING SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SMC-160A | 585 | 500 | 85 | 161 | 148 | 15 | 0-100 | 0-100 | 18 | 58 | 30 | 90 | 59kg | 760x280x215 |





## MC 角固式/倍力式空压快速精密虎钳
### MC COMPACT/PNEUMATIC QUICK VISE

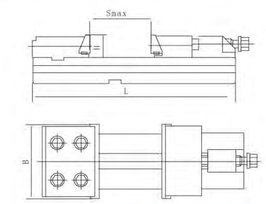


- The double force type air pressure fast vise is suitable for MC vertical horizontal comprehensive cutting machine, milling machine, drilling machine, special machine and other mass production and processing fast fixture.
- The double force mechanism cooperates with the air pressure to achieve fast and large clamping force function, and only needs to be connected to the air pressure source to avoid oil pushing to prevent oil leakage.
- The vise is designed with a safety stop device. When the air pressure source suddenly stops supplying, the clamping force is not loose and the safety is high.

| Model | A | B | C | D | F | H | J | K | X | Y | KN | N.W. | G.W. | PACK SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QD-130 | 507 | 405 | 102 | 131 | 155 | 15 | 0-140 | 55 | 65 | 100 | 16KN(1568kgf) | 40kg | 42kg | 655×250×205 |
| QD-160 | 534 | 432 | 102 | 161 | 163 | 15 | 0-150 | 58 | 65 | 105 | 21KN(2058kgf) | 52kg | 55kg | 760×280×215 |
| QD-200 | 534 | 525 | 102 | 201 | 188 | 18 | 0-200 | 63 | 82 | 125 | 41KN(4018kgf) | 83kg | 56kg | 860×320×225 |

## 精密组合平口钳 PRECISION MODULAR VISES

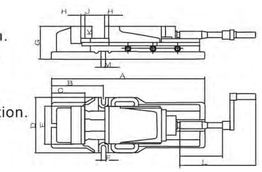
- Made of high-quality alloy steel.
- Parallelism 0.005mm/100mm,squareness 0.005mm. The hardness of working surface is HRC58-62 and precision ground to a mirror finish.
- It have interchangeable base,fixed/movable jawsit is quickly to clamp and easy to operate.
- It is widely used on machining center and other precision machine tools.



| Model | B (mm) | H (mm) | Smax (mm) | L(mm) | Clamping force(kg) |
|---|---|---|---|---|---|
| GT100-I | 100 | 30 | 100 | 270 | 3000 |
| GT125-I | 125 | 40 | 125 | 345 | 3000 |
| GT150A-I | 150 | 50 | 200 | 420 | 5000 |
| GT150B-I | 150 | 50 | 300 | 520 | 5000 |
| GT175A-I | 175 | 60 | 200 | 455 | 6000 |
| GT175B-I | 175 | 60 | 300 | 555 | 6000 |

## 内藏式精密油压虎钳
### WORKING PRECISION HYDRAULIC VISE

- Mechanical/hydraulic type can be used alone or in combination. Strong and powerful material ~ vise This table uses spheroidal graphitized cast iron(FCD60~60kgs/mm2). (80,000 psi)
- Strong tensile strength, high wear resistance and low deformation.
- The sliding surface of the vise is hardened by heat treatment HRC 45 degrees or more, and Precision grinding, long-term wear resistance and precision.



UNIT: mm

| Model | A | B | C | D | E | F | G | H | J | K | L | M | KN | WEIGHT | PACKAGE SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NHV-130A | 525 | 195 | 121 | 224 | 130 | 19 | 134 | 16 | 0-210 | 52 | 310 | 18 | 40KN(3915kgf) | 38kg | 640x260x185 |
| NHV-150A | 620 | 210 | 136 | 224 | 130 | 19 | 134 | 16 | 0-300 | 52 | 310 | 18 | 50KN(4915kgf) | 58kg | 730x260x190 |

## QGG高度精密工具平口钳
### QGG HIGH-PRECISION PRECISION TOOL CLAMPS

QKG TYPE

QM TYPE

- Scope of application: machining center, CNC machine tools, surface grinders, milling machines.
- Features: Forged with high quality materials, with high rigidity and wear resistance.
- It is simple and convenient to apply.

| SPEC | QGG50 | QGG60 | QGG63 | QGG73 | QGG80 | QGG88 | QGG100 | QGG125 | QGG125A | QGG150 |
|---|---|---|---|---|---|---|---|---|---|---|
| WIDE | 50 | 60 | 63 | 73 | 80 | 88 | 100 | 125 | 125 | 150 |
| DEEPTH | 25 | 25 | 32 | 35 | 40 | 40 | 45 | 50 | 50 | 50 |
| LENGTH | 65 | 55 | 85 | 100 | 100 | 125 | 125 | 160 | 210 | 175 |
| TOTAL LENGTH | 155 | 110 | 190 | 210 | 220 | 250 | 260 | 300 | 350 | 315 |