

MING XU
Grinding Machine Technology

无锡市明旭机电设备有限公司
WUXI MINGXU MACHINERY EQUIPMENT CO., LTD.

电话 TEL: 0510-82307435 0086-13771085841

传真 FAX: 0510-82307438

地址 ADD: 江苏省无锡市新吴区金科财富广场5-4、5-5号

5-5 Jinke Fortune Plaza, Xinwu District, Wuxi City, Jiangsu Province, China

邮箱 Email: yingyingmxjd@163.com

无心磨床领先者 专业 让我们更出色!

CENTERLESS

无心磨床 GRINDER

无锡市明旭机电设备有限公司
WUXI MINGXU MACHINERY EQUIPMENT CO., LTD.

无锡市明旭机电设备有限公司是中国顶尖的无心磨床、平面磨床及其他成型磨床制造商和供应商之一。公司生产的磨床广泛应用于众多领域。

公司坐落于无锡，占地面积超过20,000平方米，采用ISO9001质量管理体系进行管理，并聘请了拥有多年生产经验的技术顾问。凭借以产品质量管理为核心的现代企业管理方法，公司以其卓越品质、新颖设计、具有竞争力的价格以及完善的售后服务赢得了客户的一致好评。

公司始终秉持“创企业、抓管理、造产品、献服务”的宗旨。

WUXI MINGXU MACHINERY EQUIPMENT CO., LTD. IS ONE OF THE BEST MANUFACTURERS AND SUPPLIERS OF CENTERLESS GRINDERS, SURFACE GRINDERS, AND OTHER FORMAT GRINDERS IN CHINA.

THE GRINDERS PRODUCED ARE WIDELY USED IN VARIOUS FIELDS. THE COMPANY IS LOCATED IN WUXI, COVERING AN AREA OF MORE THAN 20,000 SQUARE METERS. THE COMPANY ADOPTS THE ISO9001 QUALITY MANAGEMENT SYSTEM FOR MANAGEMENT, AND EMPLOYS MANY YEARS OF PRODUCTION TECHNICAL CONSULTANTS. WITH MODERN ENTERPRISE MANAGEMENT METHODS BASED ON PRODUCT QUALITY MANAGEMENT, THE COMPANY HAS WON UNANIMOUS PRAISE FROM CUSTOMERS FOR ITS QUALITY, NOVEL DESIGN, COMPETITIVE PRICE, AND PERFECT AFTER-SALES SERVICE.

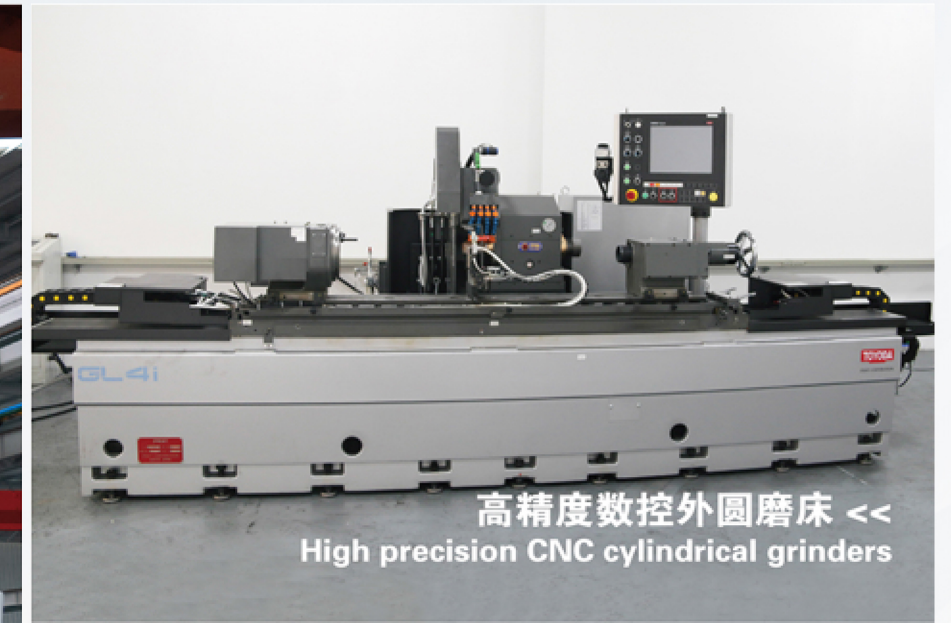
THE COMPANY'S CONSISTENT PURPOSE IS TO CREATE ENTERPRISES, ADHERE TO MANAGEMENT, PRODUCE PRODUCTS, AND PROVIDE SERVICES.



公司简介 COMPANY PROFILE



>> 总装车间
Assembly



高精度数控外圆磨床 <<
High precision CNC cylindrical grinders



车削中心 <<
Turning center



>> 卧式镗铣加工中心
Horizontal milling and boring machine



>> 数控导轨磨
CNC guide grinder



五面体龙门加工中心 <<
FIVE-FACE DCMC



龙门加工中心 <<
DCMC



- 1. 圆柱度仪
Cylindricity Tester
- 2. 三坐标
Three-Coordinate
- 3. 激光外径测径仪器
Laser outer diameter measuring instrument
- 4. 粗糙度仪
Roughness Meter
- 5. 检测室全景
Panoramic view of the testing room



ISO认证证书
ISO Certification certificate



CE认证证书
Certificate of Compliance



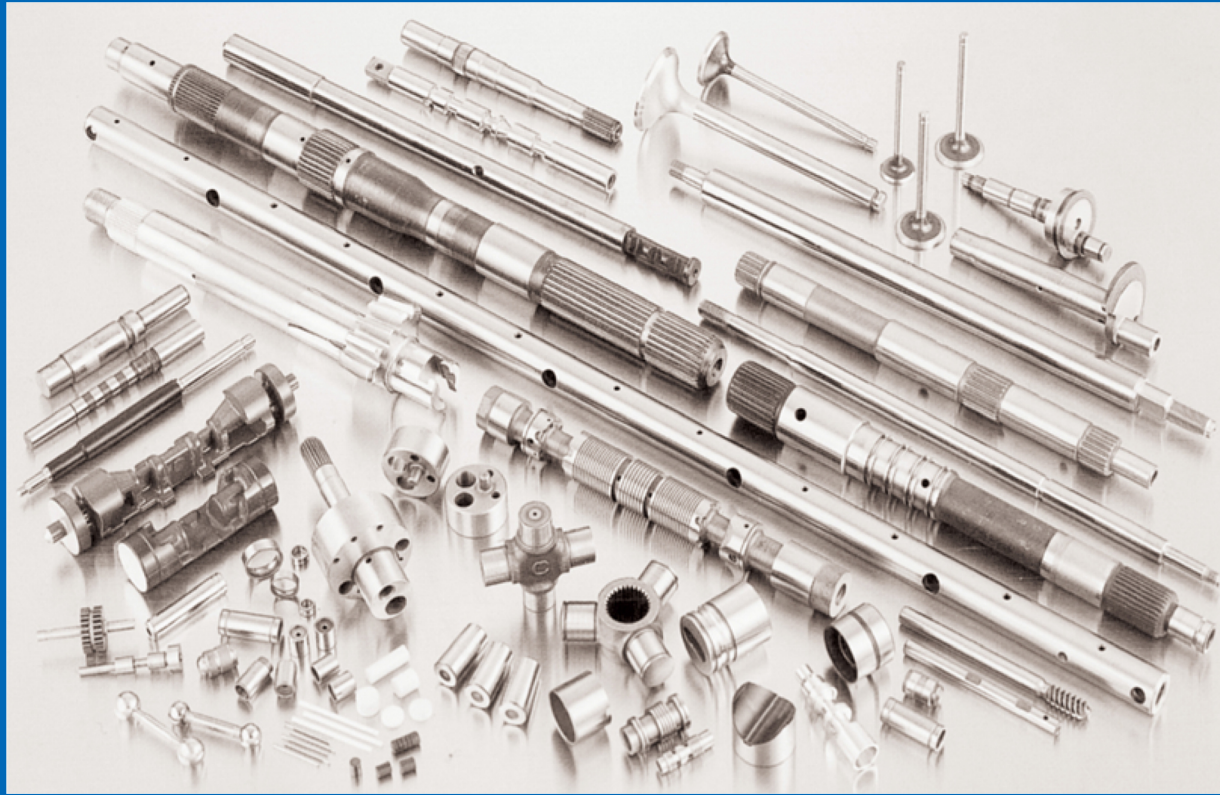
实用新型专利证书
Utility model patent certificate



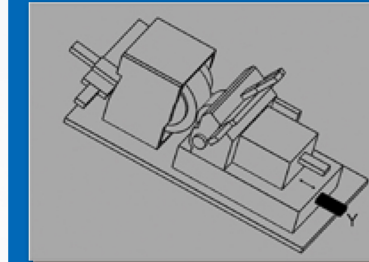
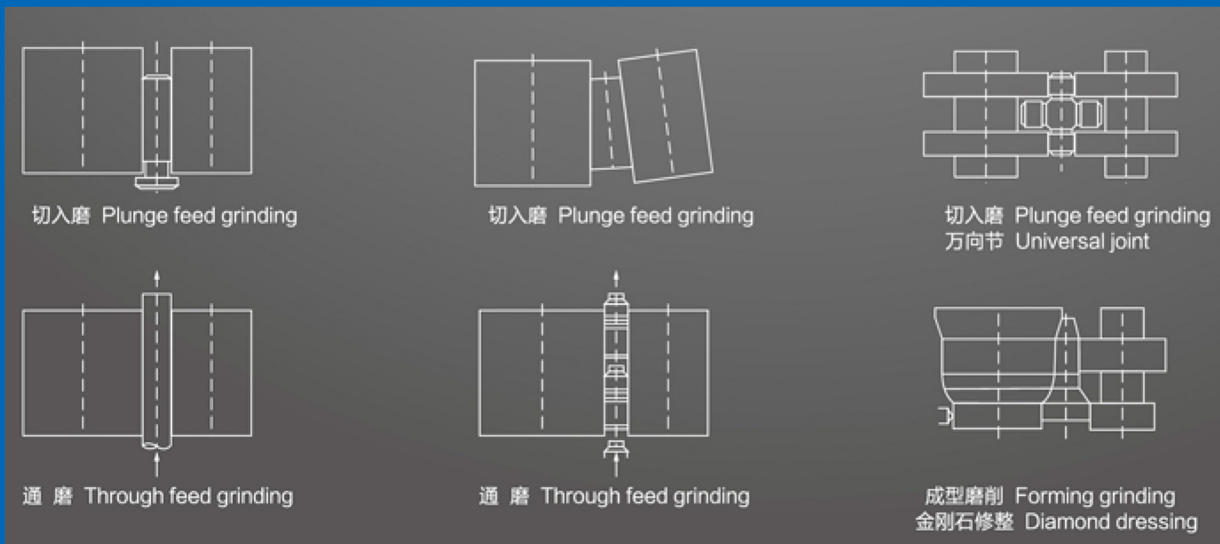
江苏省民营科技企业
Private technology enterprises in Jiangsu Province



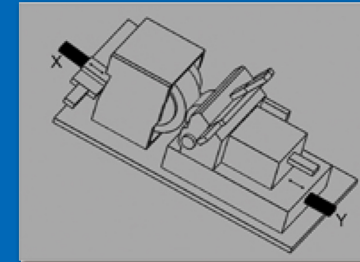
高新技术企业
High-tech enterprise



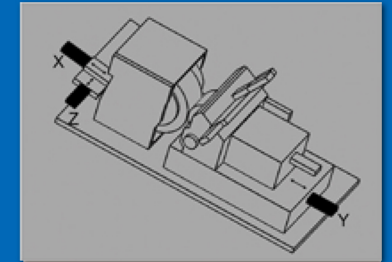
工作方式 Operation Applications



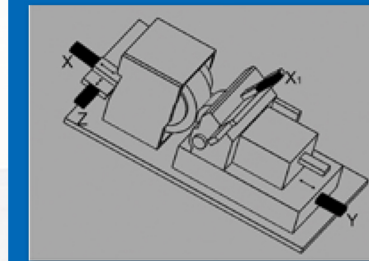
1轴 1AXIS
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



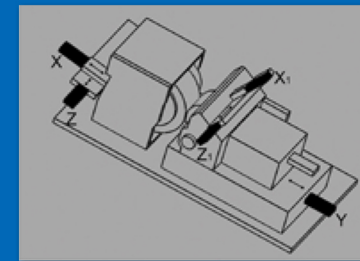
2轴 2AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



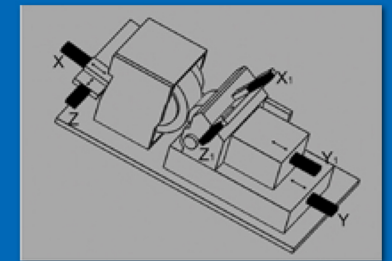
3轴 3AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)



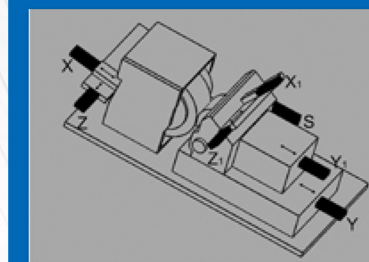
4轴 4AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)
U导轮自动修整 (垂直轴)
Regulating wheel auto.dressing(vertical)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



5轴 5AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)
U导轮自动修整 (垂直轴)
Regulating wheel auto.dressing(vertical)
W导轮自动修整 (水平轴)
Regulating wheel auto.dressing(horizontal)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



6轴 6AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)
U导轮自动修整 (垂直轴)
Regulating wheel auto.dressing(vertical)
W导轮自动修整 (水平轴)
Regulating wheel auto.dressing(horizontal)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



7轴 7AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)
U导轮自动修整 (垂直轴)
Regulating wheel auto.dressing(vertical)

W导轮自动修整 (水平轴)
Regulating wheel auto.dressing(horizontal)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed
S导轮转速控制轴
Regulating wheel spindle speed control

目录

CONTENTS

MX精密无心磨床系列 11

Precision Centerless Grinder Series

MX-MK1060数控无心磨床 12

Precision CNC Centerless Grinder

MX-M1040B无心磨床 13

Precision Centerless Grinder

MX-M1050A无心磨床 14

Precision Centerless Grinder

MX-M1080B无心磨床 15

Precision Centerless Grinder

MX-M1083B无心磨床 16

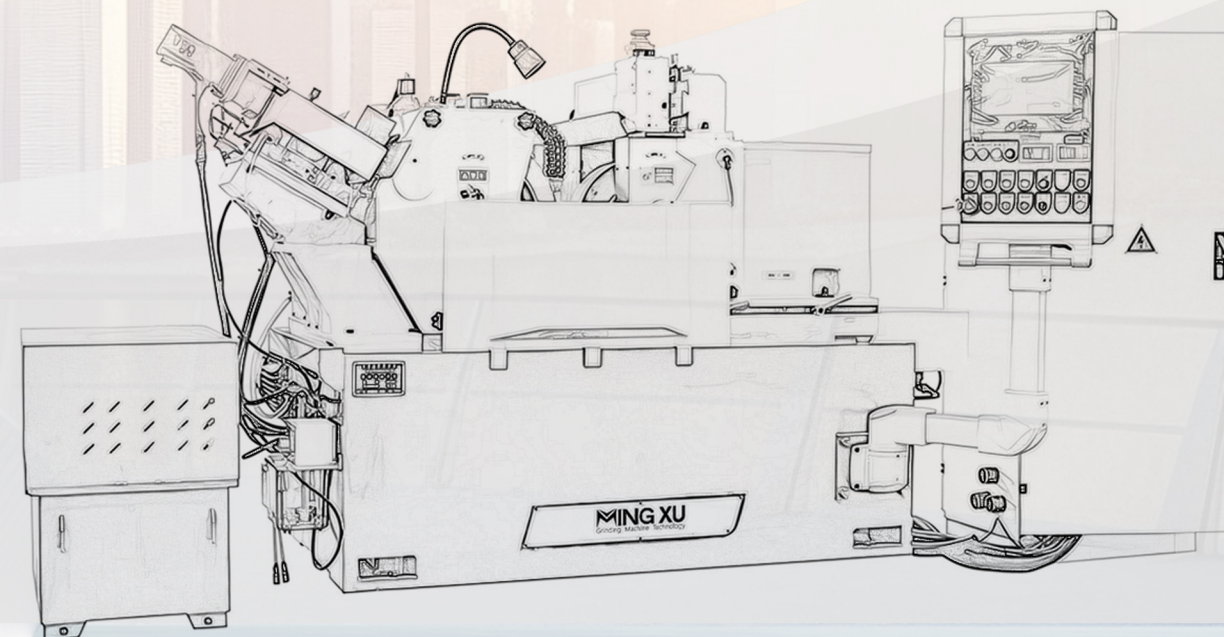
Precision Centerless Grinder

MX-M10100无心磨床 17

Precision Centerless Grinder

附件 18

Accessories



MX系列 精密无心磨床系列 Precision Centerless Grinder Series

MX-M1040B无心磨床	23
MX-M1050A无心磨床	24
MX-M1080B无心磨床	25
MX-M1083B无心磨床	26
MX-M10100无心磨床	27
MX-MK1060无心磨床	28

Main Features 主要特性

Machine Bed 床身 ◆

采用优质铸件正火热处理及自然时效处理，以稳定内部结构，保证在使用过程中坚固耐磨、变形量小
Use high-quality castings for normalized heat treatment and natural aging treatment to stabilize the internal structure and ensure that it is strong and wear-resistant during use with small deformation

Grinding Wheel / Guide Wheel Device 砂、导轮装置 ◆

1. 机床采用砂轮架固定、导轮架移动方式
The machine tool adopts a fixed grinding wheel frame and a mobile guide wheel frame layout

2. 砂轮为悬臂式结构，砂轮主轴采用多片式长轴瓦动压油膜轴承
The grinding wheel is a cantilever structure, and the grinding wheel spindle adopts a multi-piece long bearing dynamic pressure oil film bearing

3. 导轮为悬臂式结构，导轮主轴采用整体1:30锥体滑动轴承
The guide wheel is a cantilever structure, and the guide wheel spindle adopts an integral 1:30 tapered sliding bearing

Dressing Device 修整装置 ◆

砂、导轮修整器均采用液压传动，无级调速
The grinding wheel and guide wheel dresser reciprocate with hydraulic transmission and stepless speed regulation

Electrical Control Device 电气控制装置 ◆

导轮调速采用交流变频无级调速
The guide wheel speed regulation adopts AC frequency conversion stepless speed regulation

MX-MK1060 精密数控无心磨床 Precision CNC Centerless Grinder



► 机床主要特性 Machine Tool Main Features

砂、导轮装置

Grinding Wheel / Guide Wheel Device

1. 砂轮主轴轴承为四片可倾斜球头支撑轴瓦，精度高。
2. 导轮主轴结构采用双支撑，轴瓦采用四片可倾斜球头支撑轴瓦，承载能力大，精度高。
3. 导轮采用交流变频无级调速装置，既能无级调速，亦具防倒拖功能。

1. The grinding wheel spindle bearing is a four-piece tiltable ball head support bearing with high precision.
2. The guide wheel spindle structure adopts double support, and the bearing adopts four tiltable ball head support bearings, which has large load-bearing capacity and high precision.
3. The guide wheel adopts AC frequency conversion stepless speed regulation device, which can not only steplessly adjust the speed, but also has anti-drag function.

进给装置 Feeding Device

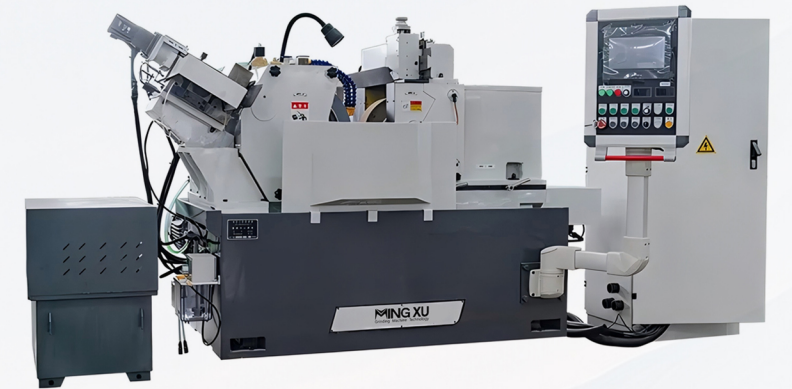
进给机构采用伺服电动机带动高精度行星齿轮减速机，通过联轴器带动滚珠丝杆来实现进给。

The feeding mechanism adopts a servo motor to drive a high-precision planetary gear reducer, and drives the ball screw through the coupling to achieve feeding.

电器控制装置 Electrical Control Device

1. 操作采用10"触摸显示屏人机对话，设有自动切入磨削程序，进给量、速度、时间、台阶差均为可调。2. 电气系统采用日本三菱系统(可选配西门子)。

1. The operation adopts 10" touch screen human-computer dialogue, with automatic cutting and grinding program, feed rate, speed, time, step difference are all adjustable. 2. The electrical system adopts Japan Mitsubishi system (Siemens system is optional).



► 技术参数 Technical Data

	MX-MK1060
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	5-60mm
(2)最大磨削长度 Max grinding length	195mm
>> 通磨 Through-feed	
>> 磨削直径 Grinding diameter	5-60mm
>> 磨削规格 Grinding wheel specification	P500*200(250)*305 mm
>> 导轮规格 Regulating wheel specification	PSA350*200*127 mm
>> 磨削转速 Grinding wheel speed	1318r/min
>> 导轮转速(无级) Regulating wheel speed(stepless)	10-200 r/min
>> 导轮架回转角度 Swiveling angle of regulating wheel	
(1)垂直面内 Vertical	-1°- +5°
(2)水平面内 Horizontal	0°- +5°
>> 最小进给量 Min.feed amount	0.001mm
>> 修整器最小进给量 Dresser min feed amount	0.001mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel ®.wheel to workrest	250mm
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	15KW
(2)导轮电动机 Regulating wheel motor	1.5KW
>> 机床引接电源 Power supply	3N 380V 50HZ
>> 机床外形尺寸(长 X 宽 X 高) Machine dimension(L*W*H)	2050*1680*1380mm
>> 机床重量 Machine weight	≈3200KG
>> 工作精度(标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.001mm
(2)圆柱度 Cylindricity	0.002 mm
(3)粗糙度 Roughness	Ra0.16μm

► 机床主要特点 Machine Tool Main Characteristics

通磨 Through-feed

主要用来对各种圆类，轴类零件的圆柱面进行通过式磨削加工。

It is mainly used for through-type grinding processing of cylindrical surfaces of various ring and shaft parts.

切入磨 Plunge-feed

对各种阶梯、锥形和圆柱体旋转面进行手动切入式磨削。

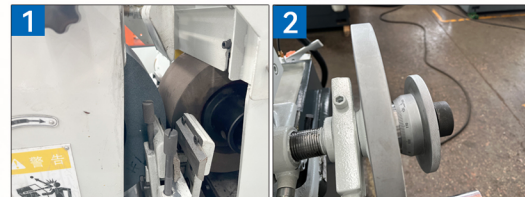
Manual plunge grinding is performed on various stepped, conical and cylindrical rotating surfaces.

► 机床主要特性 Machine Tool Main Features

进给装置 Feeding Device

导轮架进给导轨采用燕尾形滚针导轨，进给用差动丝杆。

The guide wheel frame feed guide rail adopts a dovetail needle roller guide rail, and the feed uses a differential screw.



► 技术参数 Technical Data

	MX-M1040B
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	2-40mm
(2)最大磨削长度 Max grinding length	120mm
>> 通磨 Through-feed	
>> 磨削直径 Grinding diameter	2-40mm
>> 磨削轮规格 Grinding wheel specification	PSA350*125*127mm
>> 导轮规格 Regulating wheel specification	PSA250*125*75mm
>> 磨削轮转速 Grinding wheel speed	1870r/min
>> 导轮转速 Regulating wheel speed	10~200r/min
>> 导轮架回转角度 Swiveling angle of regulating wheel	
(1)垂直面内 Vertical	-2° - 4°
(2)水平面内 Horizontal	0° - 3°
>> 微量进给刻度盘每格进给量 Micro Feed / Division	0.002mm
>> 修整器刻度盘每转过一格进给量 Dresser Feed Amount / Division	0.01mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel ®.wheel to workrest	190mm
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	7.5kW
(2)导轮电动机 Regulating wheel motor	1.1kW
>> 机床引接电源 Power supply	3N 380V 50HZ
>> 机床外形尺寸 (长 X 宽 X 高) Machine dimension(L*W*H)	1550*1300*1405mm
>> 机床重量 Machine weight	≈ 2000Kg
>> 工作精度 (标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.003mm
(3)粗糙度 Roughness	Ra0.32μm

► 机床主要特点 Machine Tool Main Characteristics

通磨 Through-feed

用于圆柱体和环形零件外表面的通磨磨削。

It is used for through-grinding of the outer surfaces of cylindrical and annular parts.

切入磨 Plunge-feed

对圆锥度小于1:20的圆锥体和各种成型回转体零件进行半自动或自动切入磨削加工。

Semi-automatic or automatic plunge grinding processing is carried out on conical parts with a conicity less than 1:20 and various formed rotary body parts.

► 机床主要特性 Machine Tool Main Characteristics

进给装置 Feeding Device

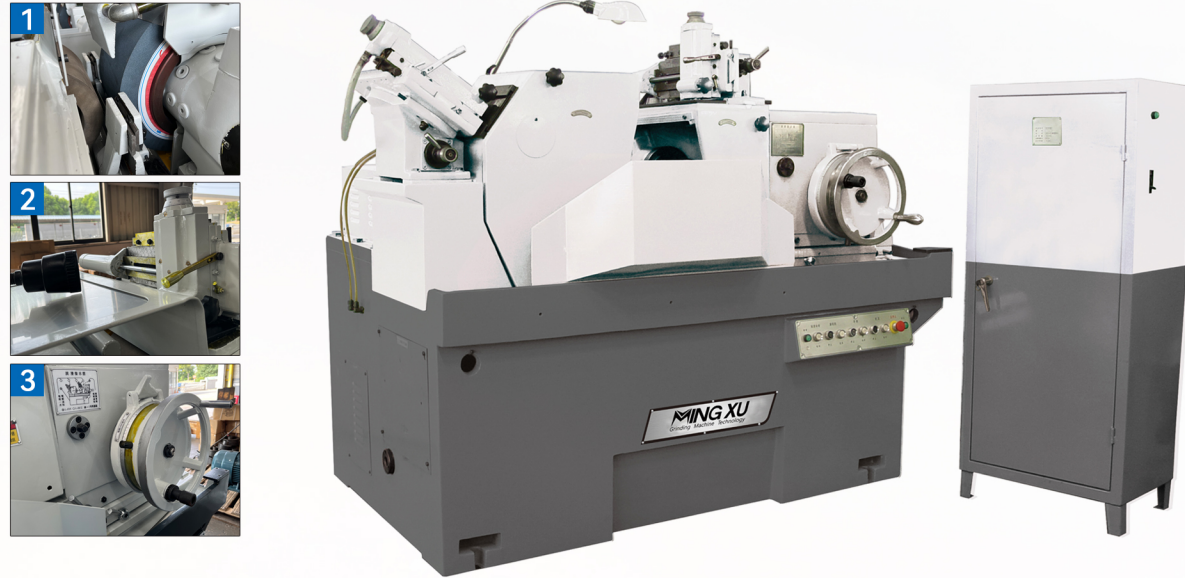
导轮架进给导轨采用平V型液压卸荷导轨。

The feed guide rail of the guide wheel frame adopts a flat V-shaped hydraulic unloading guide rail.



► 技术参数 Technical Data

	MX-M1050A
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	5 - 50mm
(2)最大磨削长度 Max grinding length	120mm
>> 通磨 Through-feed	
>> 磨削直径 Grinding diameter	5 - 50mm
>> 磨削轮规格 Grinding wheel specification	P400*150*203mm
>> 导轮规格 Regulating wheel specification	PSA300*150*127mm
>> 磨削轮转速 Grinding wheel speed	1668r/min
>> 导轮转速 Regulating wheel speed	10 - 200r/min
>> 导轮架回转角度 Swiveling angle of regulating wheel	
(1)垂直面内 Vertical	-2° - 5°
(2)水平面内 Horizontal	-1° - +3°
>> 进给手轮每格进给量 Feed / Division	0.002mm
>> 修整器刻度盘每转过一格进给量 Dresser Feed Amount / Division	0.01mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel ®.wheel to workrest	220mm
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	11kW
(2)导轮电动机 Regulating wheel motor	1.5kW
>> 机床引接电源 Power supply	3N 50HZ 380V
>> 机床外形尺寸 (长 X 宽 X 高) Machine dimension(L*W*H)	1920*1681*1479mm
>> 机床重量 Machine weight	≈ 2800kg
>> 工作精度 (标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.003mm
(3)粗糙度 Roughness	Ra0.32μm



► 机床主要特性 Machine Tool Main Features

进给装置 Feeding Device

主进给滑板采用了滚针导轨，运动灵敏，进给精度高，寿命长。

The main feed slide plate adopts needle roller guide wheels, which are sensitive in movement, have high feed accuracy and long service life.

► 技术参数 Technical Data

	MX-M1080B
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	5 - 80mm
(2)最大磨削长度 Max grinding length	140 mm
>> 通磨 Through-feed	
>> 磨削直径 Grinding diameter	5 - 80 mm
>> 磨削轮规格 Grinding wheel specification	P500*150*305mm
>> 导轮规格 Regulating wheel specification	PSA300*150*127mm
>> 磨削轮转速 Grinding wheel speed	1300r/min
>> 导轮转速 Regulating wheel speed	10 - 200r/min
>> 导轮架回转角度 Swiveling angle of regulating wheel	
(1)垂直面内 Vertical	-2° - 5°
(2)水平面内 Horizontal	0° - 3°
>> 进给机构手轮上分度盘每转一格进给量 Feed/Division	0.0025 mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel & reg.wheel to workrest	210mm
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	15KW
(2)导轮电动机 Regulating wheel motor	1.5KW
>> 机床引接电源 Power supply	3N 380V 50HZ
>> 机床外形尺寸 (长 X 宽 X 高) Machine dimension(L*W*H)	1950*1580*1485mm
>> 机床重量 Machine weight	≈3500 kg
>> 工作精度 (标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.003mm
(3)粗糙度 Roughness	Ra0.32μm



► 机床主要特点 Machine Tool Main Characteristics

通磨 Through-feed

主要用来对各种圆类，轴类零件的圆柱面进行通过式磨削加工。

It is mainly used for through-type grinding processing of cylindrical surfaces of various ring and shaft parts.

切入磨 Plunge-feed

对各种阶梯、锥形和圆柱体旋转面进行手动切入式磨削。

Manual plunge grinding is performed on various stepped, conical and cylindrical rotating surfaces.

► 技术参数 Technical Data

	MX-M1083B
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	10 - 150mm
(2)最大磨削长度 Max grinding length	190mm
>> 通磨 Through-feed	
>> 磨削直径 Grinding diameter	10 - 150mm
>> 磨削轮规格 Grinding wheel specification	P600*200*305mm
>> 导轮规格 Regulating wheel specification	PDA350*200*203mm
>> 磨削轮转速 Grinding wheel speed	1115r/min
>> 导轮转速 Regulating wheel speed	10 - 200r/min
>> 导轮架回转角度 Swiveling angle of regulating wheel	
(1)垂直面内 Vertical	-2° - +5°
(2)水平面内 Horizontal	0° - +3°
>> 进给手轮每转进给量 Feed / Revolve	1.5mm
>> 进给手轮每格进给量 Feed / Division	0.01mm
>> 微量进给每孔进给量 Miro Feed / Hole	0.005mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel & reg.wheel to workrest	285mm
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	22KW
(2)导轮电动机 Regulating wheel motor	3KW
>> 机床引接电源 Power supply	3N 50HZ 380V
>> 机床外形尺寸 (长 X 宽 X 高) Machine dimension(L*W*H)	2650*1500*1800mm
>> 机床重量 Machine weight	≈7000Kg
>> 工作精度 (标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.003mm
(3)粗糙度 Roughness	Ra0.32μm

► 机床主要特性

Machine Tool Main Characteristics

进给装置 Feeding Device
导轮架进给导轨采用平V型液压卸荷导轨。
The feed guide rail of the guide wheel frame adopts a flat V-shaped hydraulic unloading guide rail.

► 机床主要特点

Machine Tool Main Characteristics

通磨 Through-feed
用于圆柱体和环形零件外表面的通磨磨削。
It is used for through-grinding of the outer surfaces of cylindrical and annular parts.

切入磨 Plunge-feed
对圆锥度小于1:20的圆锥体和各种成型回转体零件进行半自动或自动切入磨削加工。
Semi-automatic or automatic plunge grinding processing is carried out on conical parts with a conicity less than 1:20 and various formed rotary body parts.



► 技术参数 Technical Data

	MX-M10100
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	10-100mm
(2)最大磨削长度 Max grinding length	195mm
>> 通磨 Through-feed	
>> 磨削直径 Grinding diameter	10-100mm
>> 磨削规格 Grinding wheel specification	P500*200*305mm
>> 导轮规格 Regulating wheel specification	PDA350*200*203mm
>> 磨削轮转速 Grinding wheel speed	1338r/min
>> 导轮转速 (无级) Regulating wheel speed(stepless)	10-200r/min
>> 导轮架回转角度 Swiveling angle of regulating wheel	
(1)垂直面内 Vertical	-2° - +5°
(2)水平面内 Horizontal	0° - +3°
>> 进给手轮每格进给量 Feed / Division	0.002mm
>> 修整器刻度盘每转过一格进给量 Dresser Feed Amount / Division	0.01mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel & reg.wheel to workrest	255mm
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	18.5KW
(2)导轮电动机, Regulating wheel motor	2.2KW
>> 机床引接电源 Power supply	3N 50HZ 380V
>> 机床外形尺寸 (长 X 宽 X 高) Machine dimension(L*W*H)	2675*1505*1615mm
>> 机床重量 Machine weight	4500Kg
>> 工作精度 (标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.003mm
(3)粗糙度 Roughness	Ra0.32 μ m

附件 Accessories

► 标准附件 STANDARD



► 选配附件 OPTIONAL

