

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.

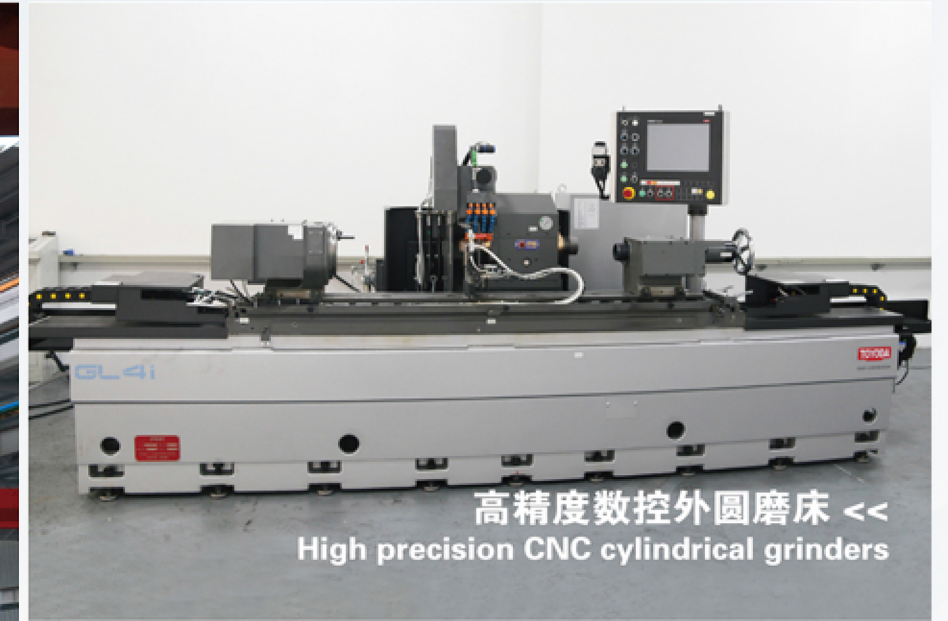


公司简介

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



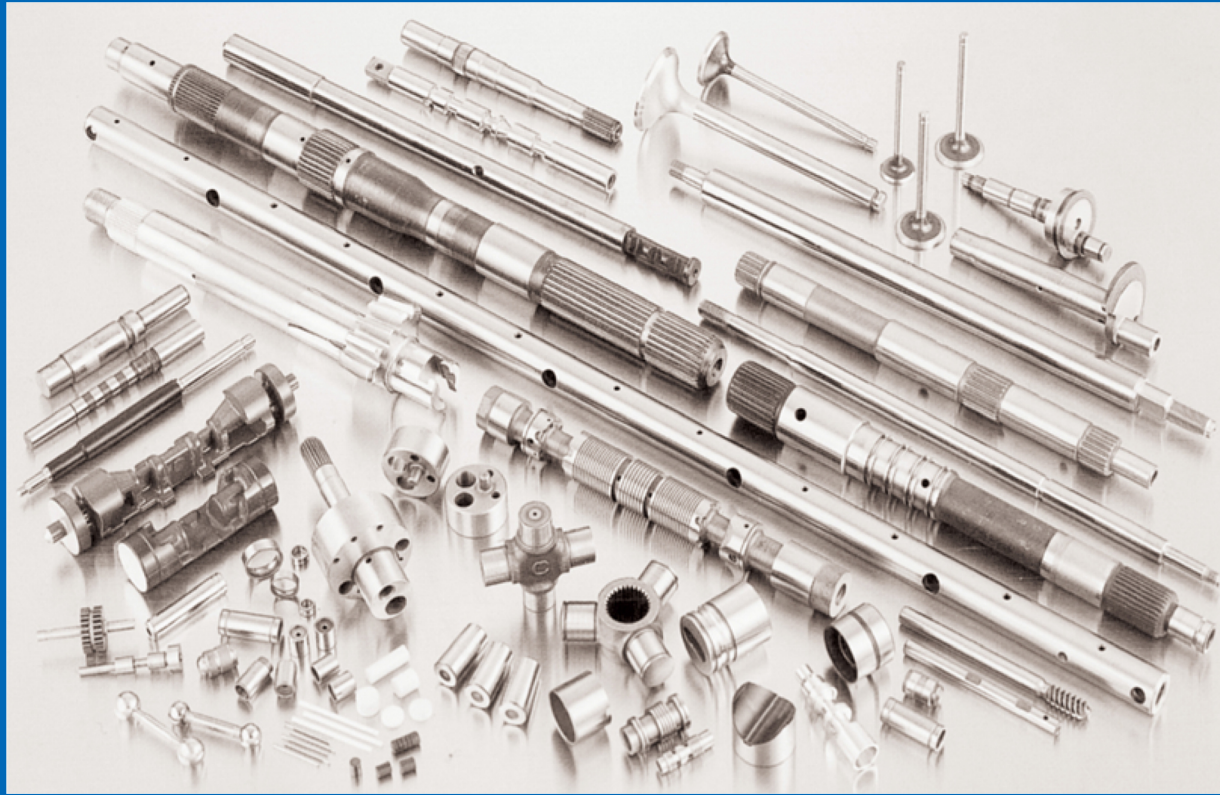
实用新型专利证书
Utility model patent certificate



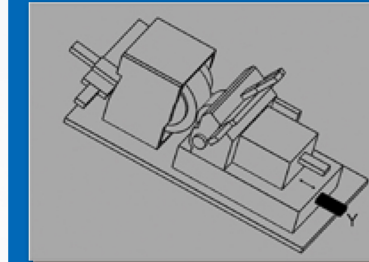
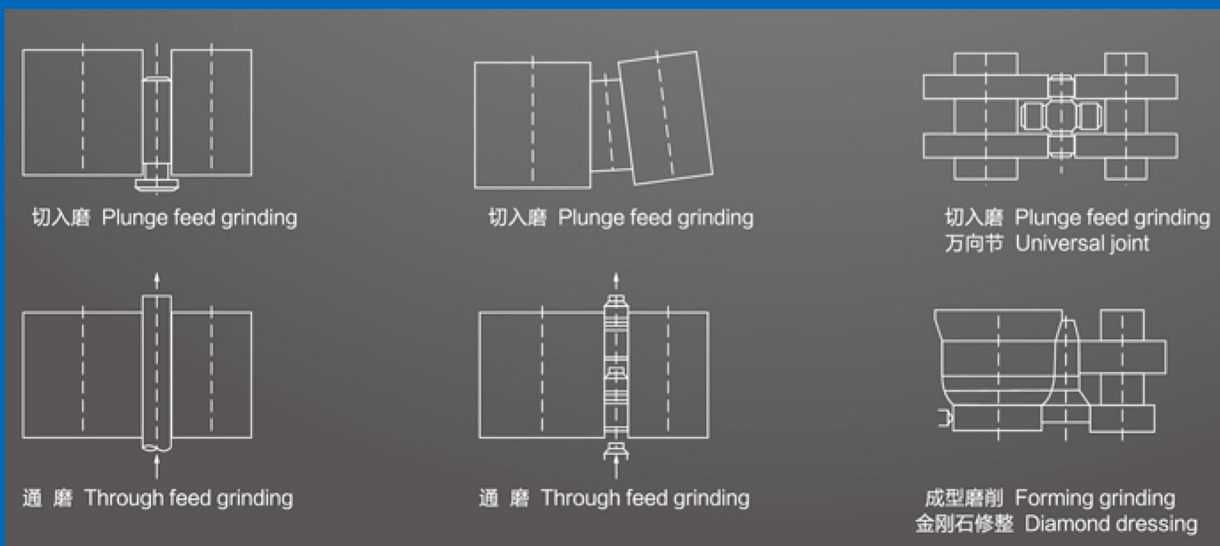
江苏省民营科技企业
Private technology enterprises in Jiangsu Province



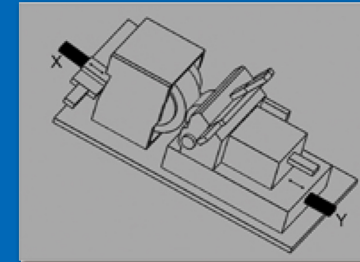
高新技术企业
High-tech enterprise



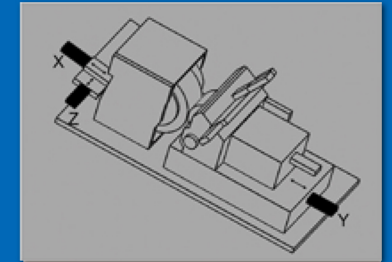
工作方式 Operation Applications



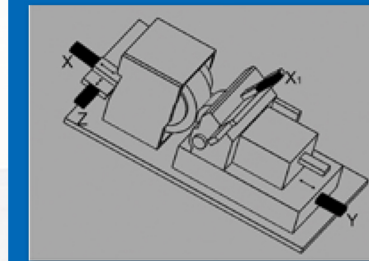
1轴 1AXIS
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



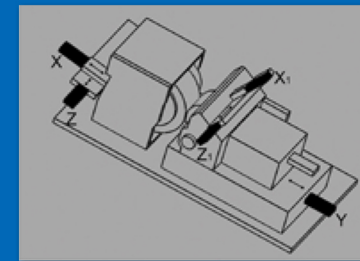
2轴 2AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



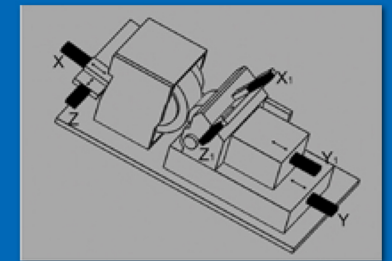
3轴 3AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)



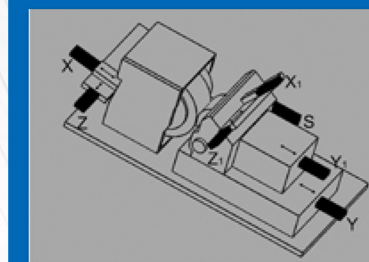
4轴 4AXES
X砂轮自动修整 (垂直轴)
Grinding wheel auto.dressing(vertical)
Z砂轮自动修正 (水平轴)
Grinding wheel auto.dressing(horizontal)
U导轮自动修整 (垂直轴)
Regulating wheel auto.dressing(vertical)
Y导轮下滑板自动进刀
Regulating wheel lower slide auto.infeed



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

MX宽砂轮无心磨床系列 11
Wide-Wheel Centerless Grinder

MX-M11100宽砂轮无心磨床 12
Wide-Wheel Centerless Grinder

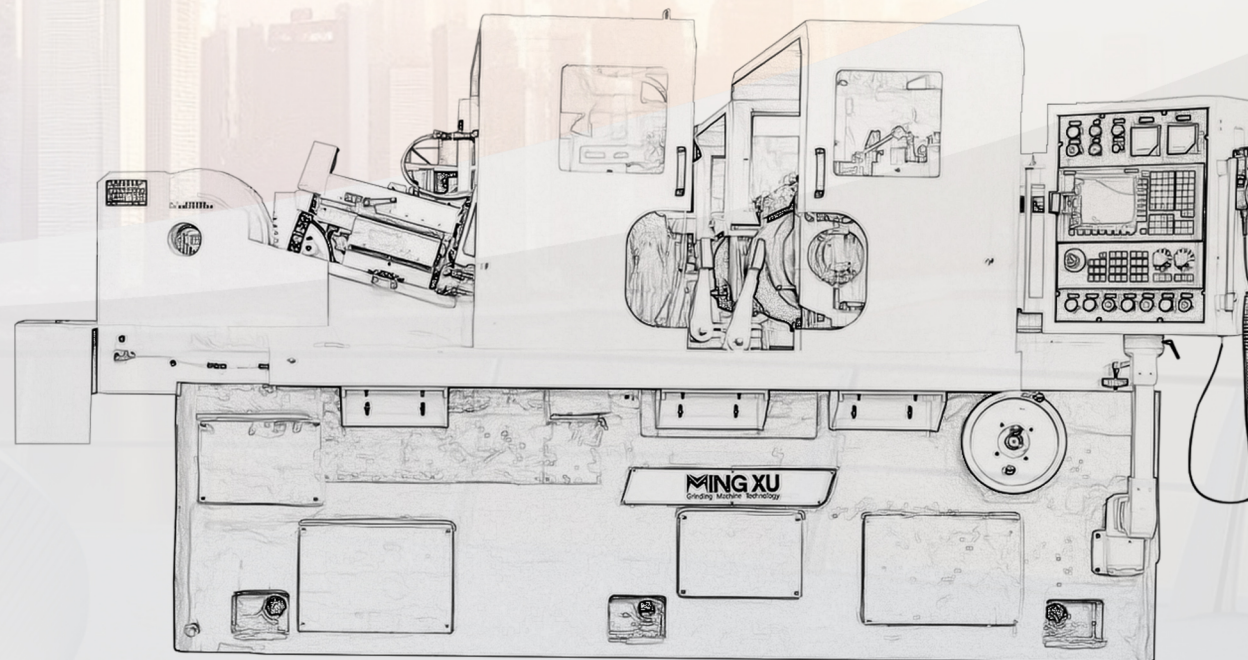
MX-M10200宽砂轮无心磨床 13
Wide-Wheel Centerless Grinder

MX-M11200宽砂轮无心磨床 14
Wide-Wheel Centerless Grinder

MX-MK11250宽砂轮数控无心磨床 15
Wide-Wheel CNC Centerless Grinder

附件 16
Accessories

目录
CONTENTS



MX系列 宽砂轮无心磨床系列

Wide Wheel Centerless Grinder Series

MX-M11100宽砂轮无心磨床	12
MX-M10200宽砂轮无心磨床	13
MX-M11200宽砂轮无心磨床	14
MX-MK11250宽砂轮数控无心磨床	15

主要特性 Main Features

◆床身 Machine Bed

采用优质铸件正常化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用、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.

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

1. 砂轮厚度较宽，遇磨时一次通过的磨削余量可加大，减少重复磨削次数，可提高生产效率。
The grinding wheel is thicker, and the grinding allowance can be increased during one pass of grinding, which reduces the number of repeated grindings and improves production efficiency.

2. 机床为双面移动布局，托架固定在床身上，导轮架仅作调整运动，工件位置不变，易于配备各种送料装置，便于自动化。
The machine tool is a double-sided mobile layout, the bracket is fixed on the bed, the guide wheel frame only makes adjustment movements, the workpiece position remains unchanged, and it is easy to equip various feeding devices, which is convenient for automation.

3. 砂轮及导轮主轴均采用双支承五片式短轴瓦油膜轴承，刚性好，能适应重负荷磨削及精密磨削的需要。
The grinding wheel and guide wheel spindles both use double-support five-piece short-bearing oil film bearings, which have good rigidity and can meet the needs of heavy-load grinding and precision grinding.

◆进给装置 Feeding Device

砂轮架采用液体静压导轨，移动灵敏能实现微量进给并具有一定的抗振性，导轨不易磨损。
The grinding wheel frame uses liquid hydrostatic guide rails, which are sensitive to movement, can achieve micro-feeding and have a certain vibration resistance, and the guide rails are not easy to wear.

◆修整装置 Dressing Device

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

◆冷却装置 Cooling Device

冷却系统采用磁性分离器过滤装置。
The cooling system uses a magnetic separator filter device.

◆电气控制装置 Electrical Control Device

导轮调速采用交流变频无级调速。
The guide wheel speed regulation uses AC variable frequency stepless speed regulation.

MX-M11100 宽砂轮无心磨床 Wide-Wheel Centerless Grinder

MING XU
Grinding Machine Technology



- 1 双面移动床身
Double-sided movable bed
- 2 高刚性双支撑砂轮架
High-rigidity double-supported grinding wheel frame
- 3 高刚性双支撑导轮架
High-rigidity double-supported guide wheel frame

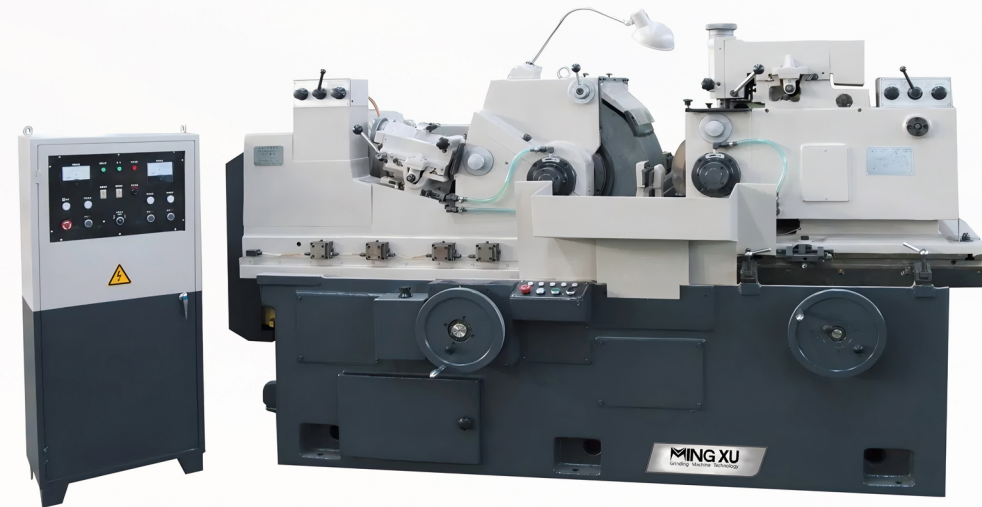
► 机床主要特点 Machine Tool Main Characteristics

本机床为宽砂轮无心磨床，主要用来磨削直径 $\phi 10\sim 100\text{mm}$ 的各种轴承外圈表面以及相类似的其他各种等直径零件的外表面。机床还具有自动切入机构及机械手的液压和电气控制系统。因此配备必要的机械手上下装料装置和其他专用装置后，机床也可作切入成型磨削。

This machine tool is a wide-wheel centerless grinding machine, mainly used to grind the outer ring surfaces of various bearings with a diameter of $\phi 10\sim 100\text{mm}$ and the outer surfaces of various other similar parts with equal diameters. The wide-wheel centerless grinder also has an automatic cutting mechanism and a hydraulic and electrical control system for the manipulator. Therefore, after being equipped with the necessary manipulator loading and unloading devices and other special devices, the machine can also be used for cutting and forming grinding.

► 技术参数 Technical Data

	MX-M11100
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	10-100mm
(2)最大磨削长度 (标准托架) Max grinding length	390mm
>> 通磨 Through-feed	
(1)磨削直径 Grinding diameter	10-100mm
>> 磨削砂轮规格 Grinding wheel specification	P500*400*305mm
>> 导轮规格 Regulating wheel specification	P350*400*203mm
>> 磨削砂轮转速 Grinding wheel speed	1330r/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° - +4°
(2)水平面内 Horizontal	-2° - +4°
>> 磨削砂轮架最小进给量 Grinding wheel frame min feed amount	0.002mm
>> 导轮架最小进给量 Regulating wheel frame min feed amount	0.01mm
>> 磨削砂轮修整器刻度盘每转过一格进给量 Grinding wheel dresser feed amount/division	0.01mm
>> 导轮修整器刻度盘每转过一格进给量 Regulating wheel 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	290mm
>> 机床总功率 Total power	
(1)砂轮电动机 Grinding wheel motor	22KW
(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)	3500*1850*1720mm
>> 机床重量 Machine weight	≈ 10000kg
>> 工作精度 (标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.005mm
(3)粗糙度 Roughness	Ra0.32 μm

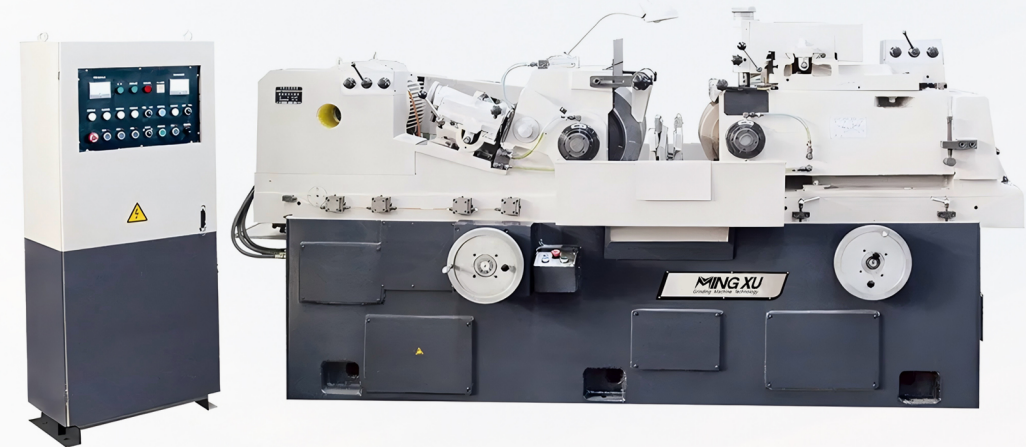


► **机床主要特性 Machine Tool Main Features**

机床采用外径600mm砂轮，切削力强，砂轮利用率高。
The machine tool is equipped with a grinding wheel with an outer diameter of 600mm, which features strong cutting force and high utilization rate of the grinding wheel.

► **技术参数 Technical Data**

	MX-M10200
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	10-200mm
(2)最大磨削长度 Max grinding length	390mm
>> 通磨 Through-feed	
(1)磨削直径 Grinding diameter	10-200mm
>> 磨削轮规格 Grinding wheel specification	P600*400*305mm
>> 导轮规格 Regulating wheel specification	P350*400*203mm
>> 磨削轮转速 Grinding wheel speed	1110r/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° - +4°
(2)水平面内 Horizontal	-2° - +4°
>> 磨削轮架最小进给量 Grinding wheel frame min feed amount	0.002mm
>> 导轮架最小进给量 Regulating wheel frame min feed amount	0.01mm
>> 磨削轮修整器刻度盘每转过一格进给量 Grinding wheel dresser feed amount/division	0.01mm
>> 导轮修整器刻度盘每转过一格进给量 Regulating wheel 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	290mm
>> 机床总功率 Total power	
(1)砂轮电动机 Grinding wheel motor	30KW
(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)	3600*1850*1720mm
>> 机床重量 Machine weight	About 10000Kg
>> 工作精度(标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.005mm
(3)粗糙度 Roughness	Ra0.32μm



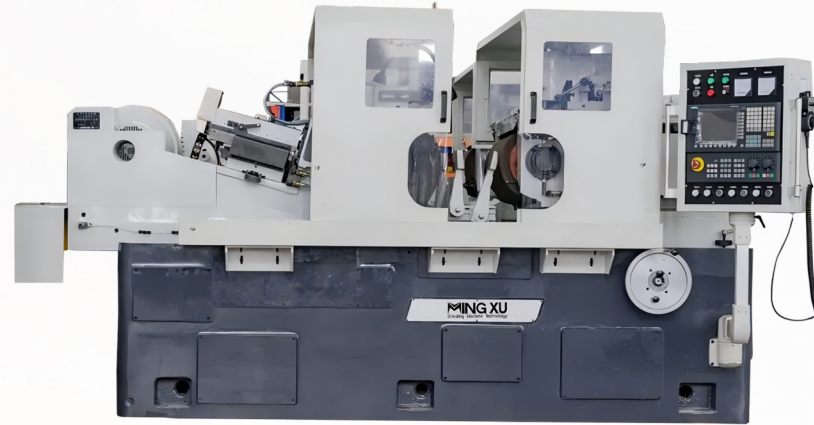
► **机床主要特点 Machine Tool Main Characteristics**

本机床为宽轮无心磨床，主要用来磨削直径φ10~100mm的各种轴承外圈表面以及相类似的其他各种等直径零件的外表面。机床还具有自动切入机构及机械手的液压和电气控制系统。因此配备必要的机械手上下装料装置和其他专用装置后，机床也可作切入成型磨削。

This machine tool is a wide-wheel centerless grinding machine, mainly used to grind the outer ring surfaces of various bearings with a diameter of φ10~100mm and the outer surfaces of various other similar parts with equal diameters. The wide-wheel centerless grinder also has an automatic cutting mechanism and a hydraulic and electrical control system for the manipulator. Therefore, after being equipped with the necessary manipulator loading and unloading devices and other special devices, the machine can also be used for cutting and forming grinding.

► **技术参数 Technical Data**

	MX-M11200
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	10-200mm
(2)最大磨削长度 Max grinding length	590mm
>> 通磨 Through-feed	
(1)磨削直径 Grinding diameter	10-200mm
>> 磨削轮规格 Grinding wheel specification	P500*600*305mm
>> 导轮规格 Regulating wheel specification	P350*600*203mm
>> 磨削轮转速 Grinding wheel speed	1330r/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° - +4°
(2)水平面内 Horizontal	0° - +3°
>> 磨削轮架最小进给量 Grinding wheel frame min feed amount	0.002mm
>> 导轮架最小进给量 Regulating wheel frame min feed amount	0.01mm
>> 磨削轮修整器刻度盘每转过一格进给量 Grinding wheel dresser feed amount/division	0.01mm
>> 导轮修整器刻度盘每转过一格进给量 Regulating wheel 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	290mm
>> 机床总功率 Total power	
(1)砂轮电动机 Grinding wheel motor	37KW
(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)	3500*1850*1720mm
>> 机床重量 Machine weight	About 10000Kg
>> 工作精度(标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.005mm
(3)粗糙度 Roughness	Ra0.32μm



▶ 机床主要特点 Machine Tool Main Characteristics

通磨 Through-feed
对各种圆柱体零件、环形零件及长棒料进行通磨加工。
We perform through grinding processing on various cylindrical parts, annular parts and long bar stocks.

切入磨 Plunge-feed
对圆锥小于1:20的圆锥体和各种成形回转体零件的切入磨削加工。
Plunge grinding processing for conical parts with a cone size less than 1:20 and various formed rotary body parts.

▶ 机床主要特性 Machine Tool Main Features

机床采用外径600mm砂轮，切削力强，砂轮利用率高。
The machine tool is equipped with a grinding wheel with an outer diameter of 600mm, which features strong cutting force and high utilization rate of the grinding wheel.

▶ 技术参数 Technical Data

	MX-MK11250
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	10-250mm
(2)最大磨削长度 Max grinding length	590mm
>> 通磨 Through-feed	
(1)磨削直径 Grinding diameter	10-250mm
>> 磨削轮规格 Grinding wheel specification	P600*600*305mm
>> 导轮规格 Regulating wheel specification	P350*600*203mm
>> 磨削轮转速 Grinding wheel speed	1110r/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° - +4°
(2)水平面内 Horizontal	0° - +3°
>> 磨削轮架最小进给量 Grinding wheel frame min feed amount	0.001mm
>> 导轮架最小进给量 Regulating wheel frame min feed amount	0.01mm
>> 磨削轮修整器刻度盘每转过一格进给量 Grinding wheel dresser feed amount/division	0.01mm
>> 导轮修整器刻度盘每转过一格进给量 Regulating wheel 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	290mm
>> 机床总功率 Total power	
(1)砂轮电动机 Grinding wheel motor	45KW
(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)	3700*1850*1820mm
>> 机床重量 Machine weight	≈ 11000Kg
>> 工作精度(标准棒料) Accuracy(Standard bars)	
(1)圆度 Roundness	0.002mm
(2)圆柱度 Cylindricity	0.005mm
(3)粗糙度 Roughness	Ra0.32μm

附件 Accessories

▶ 标准附件 STANDARD



▶ 选配附件 OPTIONAL

