

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.

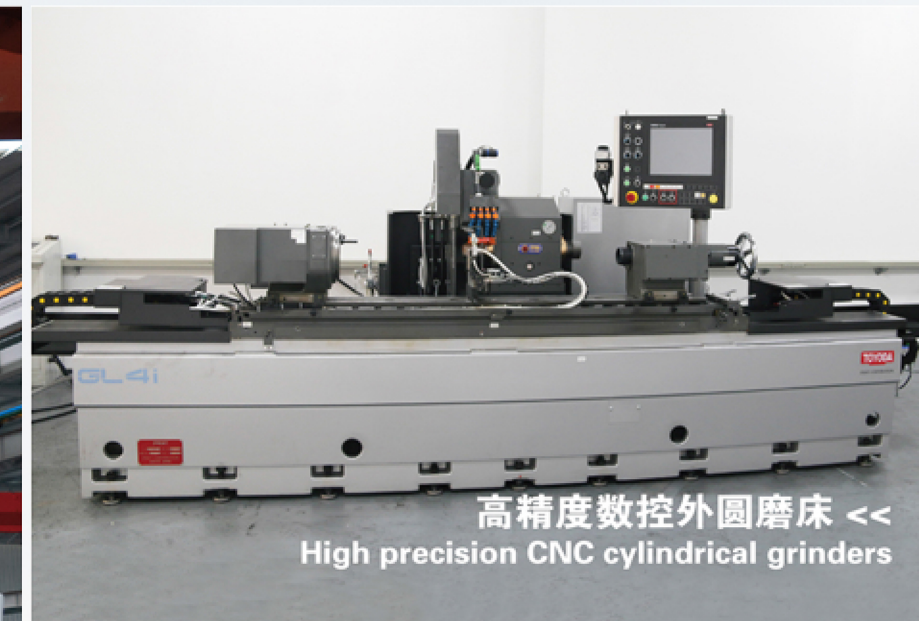


公司简介

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



ISO认证证书
ISO Certification certificate



CE认证证书
Certificate of Compliance



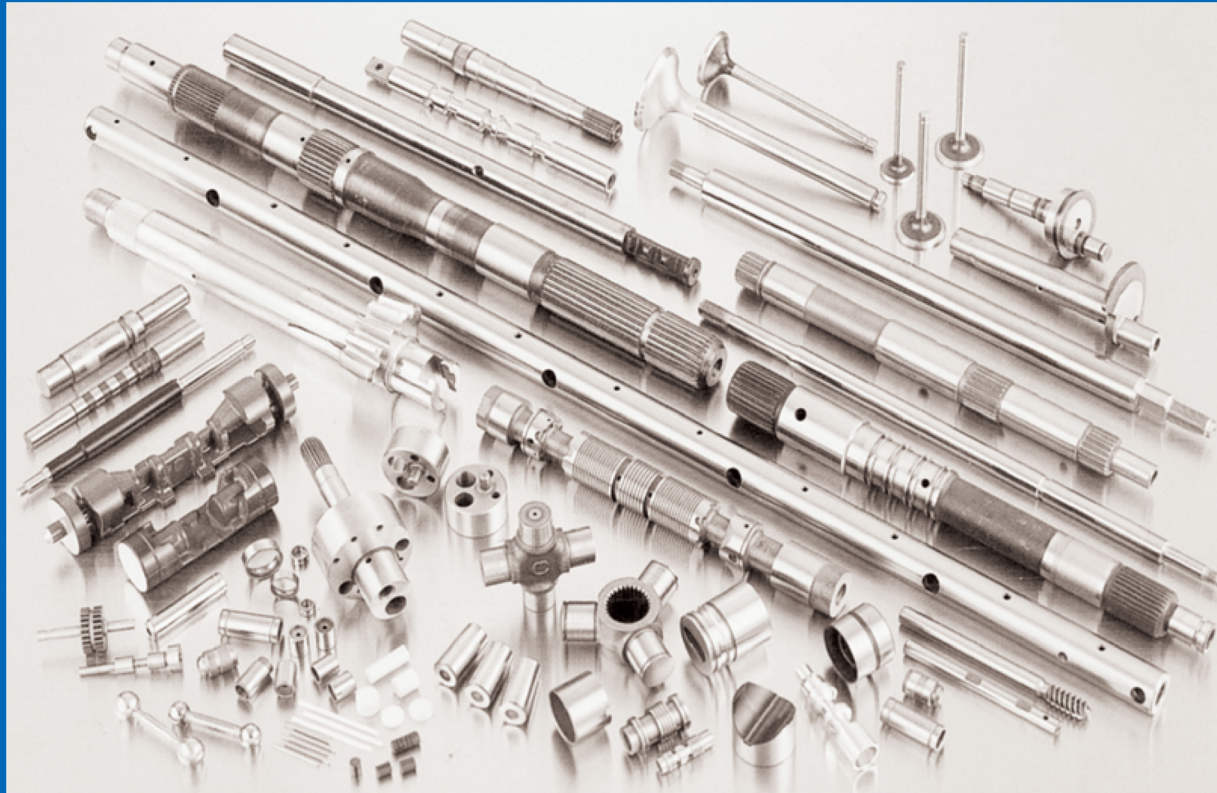
实用新型专利证书
Utility model patent certificate



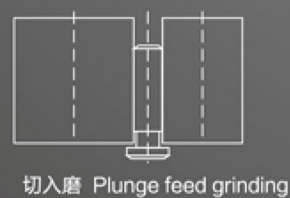
江苏省民营科技企业
Private technology enterprises in Jiangsu Province



高新技术企业
High-tech enterprise



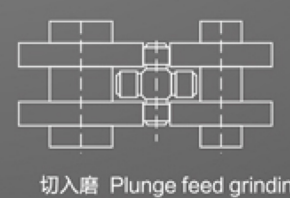
工作方式 Operation Applications



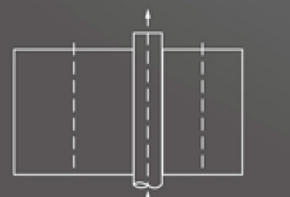
切入磨 Plunge feed grinding



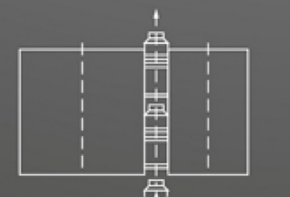
切入磨 Plunge feed grinding



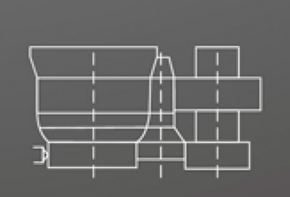
切入磨 Plunge feed grinding
万向节 Universal joint



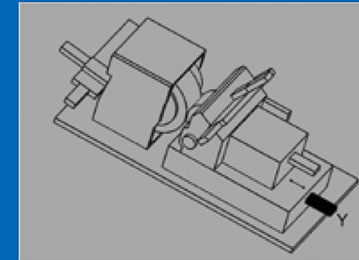
通磨 Through feed grinding



通磨 Through feed grinding



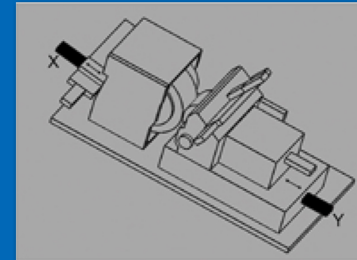
成型磨削 Forming grinding
金刚石修整 Diamond dressing



1轴 1AXIS

Y导轨下滑板自动进刀

Regulating wheel lower slide auto.infeed



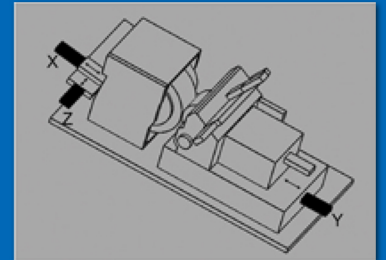
2轴 2AXES

X砂轮自动修整 (垂直轴)

Grinding wheel auto.dressing(vertical)

Y导轨下滑板自动进刀

Regulating wheel lower slide auto.infeed



3轴 3AXES

X砂轮自动修整 (垂直轴)

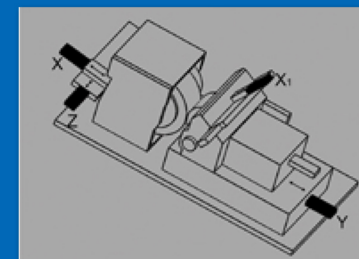
Grinding wheel auto.dressing(vertical)

Y导轨下滑板自动进刀

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)

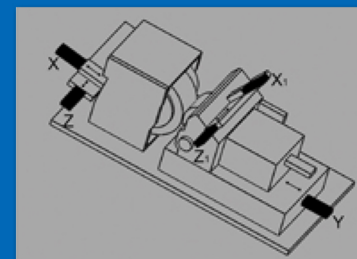
Grinding wheel auto.dressing(horizontal)

U导轨自动修整 (垂直轴)

Regulating wheel auto.dressing(vertical)

Y导轨下滑板自动进刀

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导轨自动修整 (垂直轴)

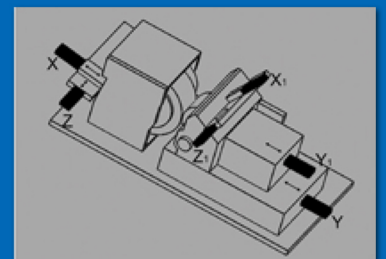
Regulating wheel auto.dressing(vertical)

W导轨自动修整 (水平轴)

Regulating wheel auto.dressing(horizontal)

Y导轨下滑板自动进刀

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导轨自动修整 (垂直轴)

Regulating wheel auto.dressing(vertical)

W导轨自动修整 (水平轴)

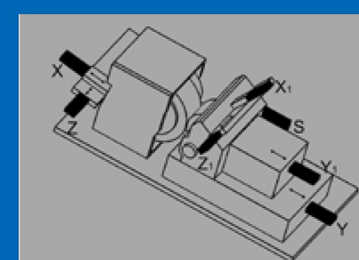
Regulating wheel auto.dressing(horizontal)

Y₁导轨下滑板自动进刀

Regulating wheel lower slide auto.infeed

Y₂导轨下滑板自动进刀

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导轨自动修整 (垂直轴)

Regulating wheel auto.dressing(vertical)

W导轨自动修整 (水平轴)

Regulating wheel auto.dressing(horizontal)

Y₁导轨下滑板自动进刀

Regulating wheel lower slide auto.infeed

Y₂导轨下滑板自动进刀

Regulating wheel lower slide auto.infeed

S导轨转速控制轴

Regulating wheel spindle speed control

目录 CONTENTS

MX高精度数控无心磨床系列..... 11 High Precision CNC Centerless Grinder series

MX-L600高精度数控无心磨床 12
High Precision CNC Centerless Grinder

MX-M200高精度数控无心磨床 13
High Precision CNC Centerless Grinder

MX-M400高精度数控无心磨床 14
High Precision CNC Centerless Grinder

MX-M500高精度数控无心磨床 14
High Precision CNC Centerless Grinder

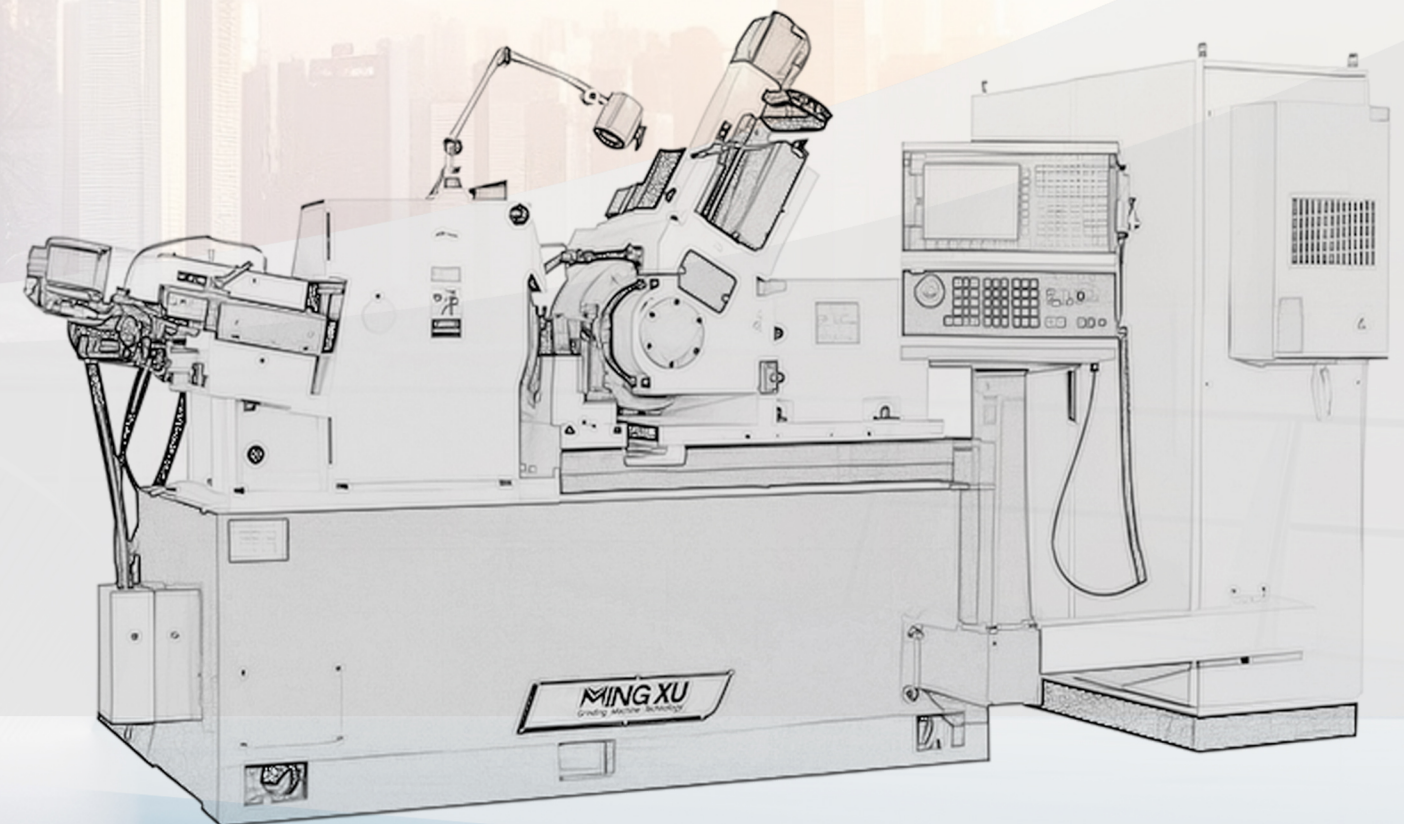
MX-S150高精度数控无心磨床 15
High Precision CNC Centerless Grinder

MX-S200高精度数控无心磨床 16
High Precision CNC Centerless Grinder

MX-S250高精度数控无心磨床 16
High Precision CNC Centerless Grinder

无心磨床自动化方案..... 17 Centerless Grinder Automation Solution

附 件..... 18 Accessories



>> 无心磨床领先者
CENTERLESS GRINDER LEADER

MX系列
高精度数控无心磨床系列
High Precision CNC Centerless Grinder Series

MX-L600高精度数控无心磨床	12
MX-M200高精度数控无心磨床	13
MX-M400高精度数控无心磨床	14
MX-S150高精度数控无心磨床	15
MX-S200高精度数控无心磨床	16

MX-L600 高精度数控无心磨床
High Precision CNC Centerless Grinder



- ▶ 机床为双面移动布局，托架固定在床身上，砂、导轮进给均采用伺服电机驱动。
Double moving design,work rest fixed to bed,servo motor drives grinding wheel and regulating wheel.
- ▶ 砂、导轮修整器往复均采用直线导轨。
Grinding and regulating wheel reciprocating adopt linear guide.
- ▶ 砂、导轮回转体采用整体式结构，刚性好。
Monolithic design for grinding and regulating wheel rotation parts with high rigidity.

技术参数 Technical Data		MX-L600高精度数控无心磨床
>> 切入磨削 Plunge-feed		
(1)磨削直径 Grinding diameter		10-250mm
(2)最大磨削长度（标准托架）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		1100r/min
>> 导轮转速（无级）Regulating wheel speed(stepless)		10~200r/min
>> 导轮架回转角度 Regulating wheel frame swivel angle		
(1)垂直面内 Vertical		-2° - +5°
(2)水平面内 Horizontal		-1° - +3°
>> 磨削轮架最小进给量 Grinding wheel min feed amount		0.001mm
>> 导轮架最小进给量 Regulating wheel min feed amount		0.001mm
>> 磨削轮修整器最小进给量 Grinding wheel 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 & reg.wheel to workres		260mm
>> 冷却水流量 Cooling water flow		200L/min
>> 电动机功率 Total power		
(1)磨削轮电动机 Grinding wheel motor		45KW/55KW
(2)导轮电动机 Regulating wheel motor		5.5KW
>> 机床引接电源 Power supply		3N 50HZ 380V
>> 机床外形尺寸(长×宽×高)Machine Dimension		4400*4300*1700mm
>> 机床重量 Machine weight		≈12000Kg
>> 工作精度(标准棒料)Accuracy(Standard bars)		
(1)圆度 Roundness		0.001mm
(2)圆柱度 Cylindricity		0.0018mm
(3)粗糙度 Roughness		Ra0.16μm



► **MX系列产品配置表** Series product configuration table

● 标准配置 Standard configuration
○ 选装配置 Optional configuration
— 无配置 No configuration

机床型号	MX-S150	MX-S200	MX-S250	MX-M200	MX-M400	MX-M500	MX-L600
>> 砂轮主轴 Grinding wheel spindle							
砂轮悬臂支撑 Grinding wheel cantilever support	●	●	—	●	—	—	—
砂轮双支承结构 Double-support structure of grinding wheel	—	—	●	—	●	●	●
多片式轴瓦动压油膜轴承 Multi-piece bearing bush dynamic pressure oil film bearing	●	●	—	●	●	○	●
动静压主轴 Hydrostatic and hydrodynamic spindle	○	○	—	○	○	—	○
滚动轴承主轴 Rolling bearing spindle	○	○	●	○	○	●	○
砂轮恒线速系统 Grinding wheel constant linear speed system	○	○	○	○	○	○	○
通用磨系统, 线速度 35M/S General grinding system, linear speed 35M/S	●	●	●	●	●	●	●
高速磨系统, 线速度 45M/S、60M/S High-speed grinding system, linear speed 45M/S, 60M/S	○	○	○	○	○	○	○
在线动平衡系统 Online dynamic balancing system	○	○	○	○	○	○	○
>> 导轮主轴 Guide wheel spindle							
导轮双支承 Double-supported of guide wheel	●	●	●	●	●	●	●
多片式轴瓦动压油膜轴承 Multi-piece bearing bush dynamic pressure oil film bearing	○	○	—	●	●	○	●
滚动轴承主轴 Rolling bearing spindle	●	●	●	○	○	●	○
>> 主进给结构 Main feed structure							
高刚性双 V 滚针导轮 High-rigidity double V-shaped needle roller guide wheel	●	●	●	—	—	—	—
贴塑导轨 Plastic-coated guide rail	—	—	—	—	—	○	●
高刚性直线导轨 High-rigidity linear guide rails	—	—	—	●	●	●	—
>> 电气控制 Electrical control							
三菱 Q 系列 Mitsubishi Q Series	●	●	●	●	●	●	●
西门子 CNC 系统 Siemens CNC system	○	○	○	○	○	○	○
可根据要求选配 1-7 轴伺服控制系统 Servo control systems ranging from 1 to 7 axes can be selected as required	○	○	○	○	○	○	○
电子手轮 Electronic handwheel	○	○	○	○	○	○	○
>> 冷却系统 Cooling system							
磁性分离器水箱系统 Magnetic separator water tank system	●	●	●	●	●	●	●
纸带过滤机水箱系统 Paper belt filter water tank system	○	○	○	○	○	○	○
>> 其他 Others							
全封闭罩壳 Fully enclosed enclosure	○	○	○	○	○	○	○
半封闭罩壳 Semi-enclosed enclosure	○	○	○	○	○	○	○
自动送料系统 Automatic feeding system	○	○	○	○	○	○	○
在线检测系统 Online test system	○	○	○	○	○	○	○



- 砂轮导轮修整器往复导轨均采用直线导轨。
Linear guide for grinding and regulating wheel dresser reciprocating guide.
- 砂轮导轮均为双支撑结构, 主轴均为整体轴。
Double bracing configuration for grinding and regulating wheel, Monolithic design for spindles.
- 机床主进给导轮可采用SCHNEEBERGER高刚性直线导轨。
High rigidity SCHNEEBERGER linear guide for machine main feeding guide.

► **技术参数** Technical Data

	MX系列高精度数控无心磨床		
	MX-M200	MX-M400	MX-M500
>> 切入磨削 Plunge-feed			
(1)磨削直径 Grinding diameter	5-100mm	5-200mm	5-200mm
(2)最大磨削长度 (标准托架) Max grinding length	190mm	390mm	490mm
>> 通磨 Through-feed			
(1)磨削直径 Grinding diameter	5-100mm	5-200mm	5-200mm
>> 磨削轮规格 Grinding wheel specification	P500*200(250)*305mm	P600*400*305mm	P600*500*305mm
>> 导轮规格 Regulating wheel specification	P350*200(300)*203mm	P350*400*203mm	P350*500*203mm
>> 磨削轮转速 Grinding wheel speed	1100r/min	1100r/min	1100r/min
>> 导轮转速 (无级) Regulating wheel speed(stepless)	10-200r/min	10-200r/min	10-200r/min
>> 导轮架回转角度 Regulating wheel frame swivel angle			
(1)垂直面内 Vertical	-2°~+5°	-2°~+5°	-2°~+5°
(2)水平面内 Horizontal	-1°~+3°	-1°~+3°	-1°~+3°
>> 导轮架最小进给量 Regulating wheel min feed amount	0.001mm	0.001mm	0.001mm
>> 磨削轮修整器最小进给量 Grinding wheel dresser min feed amount	0.001mm	0.001mm	0.001mm
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel & reg.wheel to workres	200mm	200mm	200mm
>> 冷却水流量 Cooling water flow	100L/min	200L/min	200L/min
>> 机床总功率 Total power			
(1)磨削轮电动机 Grinding wheel motor	22KW	30KW	37KW
(2)导轮电动机 Regulating wheel motor	3KW	3KW	3KW
(3)水泵电动机 Water pump motor	0.45KW	0.45KW	0.45KW
(4)润滑泵电动机 Lubrication pump motor	0.09KW	0.09KW	0.09KW
(5)磁性分离器 Magnetic coolant separator motor	0.18KW	0.18KW	0.18KW
>> 机床引接电源 Power supply	3N 50HZ 380V	3N 50HZ 330V	3N 50HZ 380V
>> 机床外形尺寸(长×宽×高)Machine Dimension	3200*1785*1800mm	3300*1780*1900mm	3400*2100*1800mm
>> 机床重量 Machine weight	≈7500Kg	≈9000Kg	≈10000Kg
>> 工作精度(标准棒料)Accuracy(Standard bars)			
(1)圆度 Roundness	0.001mm	0.001mm	0.001mm
(2)圆柱度 Cylindricity	0.0018mm	0.0018mm	0.0018mm
(3)粗糙度 Roughness	Ra0.16μm	Ra0.16μm	Ra0.16μm



- ▶ 导轮主轴采用双列圆柱棍子轴承结构，导轮为双支撑结构，回转精度高。
Regulating wheel spindle with double cylindrical roller bearing, designed for double bracing type with high rotation precision.
- ▶ 导轮架进给采用伺服电机直联滚珠丝杆机构，进给导轮采用高刚性双V型滚针导轨。
The regulating wheel feed slide is equipped double "V" roller guideway and servomotor that drives directly ball screws.
- ▶ 砂、导轮修整器往复导轨采用双V型滚针导轨。
Double "V" roller guideway for grinding and regulating wheel dresser reciprocating.

技术参数 Technical Data

MX-S150高精度数控无心磨床	
>> 切入磨削 Plunge-feed	
(1)磨削直径 Grinding diameter	2-45 (mm)
(2)最大磨削长度 (标准托架) Max grinding length	145 (mm)
>> 通磨 Through-feed	
(1)磨削直径 Grinding diameter	2-45 (mm)
>> 磨削轮规格 Grinding wheel specification	PSA400*150(200)*203 (mm)
>> 导轮规格 Regulating wheel specification	P250*150(200)*127 (mm)
>> 磨削轮转速 Grinding wheel speed	1625 (r/min)
>> 导轮转速 (无级) Regulating wheel speed(stepless)	10-200 (r/min)
>> 导轮架回转角度 Regulating wheel frame swivel angle	
(1)垂直面内 Vertical	-2° - +5°
(2)水平面内 Horizontal	-1° - +3°
>> 导轮架最小进给量 Regulating wheel min feed amount	0.001 (mm)
>> 磨削轮修整器最小进给量 Grinding wheel dresser min feed amount	0.001 (mm)
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel & reg.wheel to workres	190 (mm)
>> 冷却水流量 Cooling water flow	25 (L/min)
>> 机床总功率 Total power	
(1)磨削轮电动机 Grinding wheel motor	11 (KW)
(2)导轮电动机 Regulating wheel motor	1.5 (KW)
(3)水泵电动机 Water pump motor	0.25 (KW)
(4)润滑泵电动机 Lubrication pump motor	0.09 (KW)
(5)磁性分离器 Magnetic coolant separator motor	0.18
>> 机床引接电源 Power supply	3N50HZ380V
>> 机床外形尺寸(长×宽×高)Machine Dimension	2600*1900*1500 (mm)
>> 机床重量 Machine weight	≈ 3000 (kg)
>> 工作精度(标准棒料)Accuracy(Standard bars)	
(1)圆度 Roundness	0.001 (mm)
(2)圆柱度 Cylindricity	0.0018 (mm)
(3)粗糙度 Roughness	Ra0.16 (μm)



- ▶ 导轮主轴采用双列圆柱棍子轴承结构，导轮为双支撑结构，回转精度高。
Regulating wheel spindle with double cylindrical roller bearing, designed for double bracing type with high rotation precision.
- ▶ 导轮架进给采用伺服电机直联滚珠丝杆机构，进给导轮采用高刚性双V型滚针导轨。
The regulating wheel feed slide is equipped double "V" roller guideway and servomotor that drives directly ball screws.
- ▶ 砂、导轮修整器往复导轨采用双V型滚针导轨。
Double "V" roller guideway for grinding and regulating wheel dresser reciprocating.

技术参数 Technical Data

MX系列高精度数控无心磨床		
	MX-S200	MX-S250
>> 切入磨削 Plunge-feed		
(1)磨削直径 Grinding diameter	2-60 (mm)	2-60 (mm)
(2)最大磨削长度 (标准托架) Max grinding length	190 (mm)	240 (mm)
>> 通磨 Through-feed		
(1)磨削直径 Grinding diameter	2-60 (mm)	2-60 (mm)
>> 磨削轮规格 Grinding wheel specification	P500*200*305 (mm)	P500*200(250)*305 (mm)
>> 导轮规格 Regulating wheel specification	P350*200*203 (mm)	P350*200(250)*203 (mm)
>> 磨削轮转速 Grinding wheel speed	1338 (r/min)	1338 (r/min)
>> 导轮转速 (无级) Regulating wheel speed(stepless)	10-200 (r/min)	10-200 (r/min)
>> 导轮架回转角度 Regulating wheel frame swivel angle		
(1)垂直面内 Vertical	-20° - +5°	-20°+5°
(2)水平面内 Horizontal	-1°~+3°	-1°~+3°
>> 导轮架最小进给量 Regulating wheel min feed amount	0.001 (mm)	0.001 (mm)
>> 磨削轮修整器最小进给量 Grinding wheel dresser min feed amount	0.001 (mm)	0.001 (mm)
>> 两砂轮中心连线至托架底面高 Height from centerline of gri.wheel & reg.wheel to workres	200 (mm)	200 (mm)
>> 冷却水流量 Cooling water flow	50 (L/min)	50 (L/min)
>> 机床总功率 Total power		
(1)磨削轮电动机 Grinding wheel motor	18.5 (KW)	15/18.5 (KW)
(2)导轮电动机 Regulating wheel motor	3 (KW)	3 (KW)
(3)水泵电动机 Water pump motor	0.25 (KW)	0.25 (KW)
(4)润滑泵电动机 Lubrication pump motor	0.09 (KW)	0.09 (KW)
(5)磁性分离器 Magnetic coolant separator motor	0.18	0.18
>> 机床引接电源 Power supply	3N50HZ380V	3N50HZ380V
>> 机床外形尺寸(长×宽×高)Machine Dimension	2800*2500*1600 (mm)	2800*2500*1600 (mm)
>> 机床重量 Machine weight	≈5000 (kg)	≈ 6000 (kg)
>> 工作精度(标准棒料)Accuracy(Standard bars)		
(1)圆度 Roundness	0.001 (mm)	0.001 (mm)
(2)圆柱度 Cylindricity	0.0018 (mm)	0.0018 (mm)
(3)粗糙度 Roughness	Ra0.16 (μm)	Ra0.16 (μm)