

MMX1420B

精密数显万能外圆磨床



机床用途与性能特征

- 本机床用于磨削圆柱形和圆锥形的外圆和内孔。也可磨削轴向端面。本机床的加工精度和磨削粗糙度稳定地达到了外圆磨床的精度标准。
- 本机床的工作台纵向移动有液动和手动，砂轮架和头架可转动，头架主轴可转动，砂轮架可实现微量进给。液压系统采用了性能良好的齿轮泵。
- 本机床工作台纵向及砂轮架横向位置，配置ES-8光学电子尺数显系统。
- 本机床适用于工具、模具、机修车间及中小批量生产的车间使用。

Main Applications and Structural Features

- The machine is suitable for grinding external and internal cylinders and cones and end faces of shafts. Its grinding accuracy and roughness conform steadily to the relative accuracy standard of external cylindrical grinder.
- The grinder is fitted with worktable capable of longitudinally traveling by hydraulic or manual control as well as rotatable wheel head and work head. When the spindle of work-head is rotating, wheel head will provide fine feed. The hydraulic system adopts good performance geared pump.
- ES-8 optoelectronic scaling digital display system is fixed both at the longitudinal location of worktable and the traversal location of wheel head.
- The machine is highly adaptable to tool-, mold-making shops and repair workshop, as well as medium-and small-batch production workshop.

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技术规格参数 Specifications and Technical Parameters

磨削直径范围Max. diameter to be ground	Φ8~200mm
最大磨削长度Max. length to be ground	520/750/1000mm
中心高Height of center	125mm
顶尖中心距Distance between center	520/750/1000mm
最大工件重量Max. workpiece weight	50kg
工作台最大纵向移动量Max. longitudinal travel	600/800/1080mm
工作台最大回转角度Max. angle of swivel	-5° ~+9° /-3° ~+9° /-3° ~+7°
工作台液压移动速度Hydraulic traverse speed	0.01-4m/min
工作台手轮转动速度Traverse per turn of hand wheel	6mm/r
头架主轴转速Spindle speed	60,85,230,120,170,460r/min
头架顶尖锥度Taper of headstock center	No.3
头架卡盘直径Dia. of headstock chuck	125mm
尾架顶尖锥度Taper of tailstock center	No.3
尾架套筒移动量Stroke of center sleeve	25mm
砂轮架快速移动量Rapid travel of wheel head	20mm
手轮-转砂轮架移动量Traverse per turn of hand wheel	1mm
微调手轮-格砂轮架移动量Movement per graduation on micro adjustment knob	0.00125mm
砂轮轴转速Speed of wheel head spindle	2230/1820r/min
砂轮架移动量Traverse of wheel head	150mm
砂轮规格 Maximum diameter of grinding wheel	Φ400×(40~50)×Φ203mm
电机总容量Total power motor	4.24kw
机床外形尺寸 Overall dimensions of the machine (L×W×H)	2000×1420×1600/2700×1420×1600/3100×1400×1600
机床重量 Weight of the machine	2500/2900/3100kg

机床主要附件 Main Accessories

1 精密数显尺及显示器 Precision digital display	1套set
2 冷却液箱 Coolant tank	1套set
3 砂轮修整器 Grinding wheel dresser	1套set
4 开式中心架 Center rest open type	1套set
5 砂轮平衡轴 Wheel balancing stand	1套set
6 三爪卡盘 Three jaw chuck	1套set
7 顶尖 Center	2件piece
8 半顶尖 Half center	2件piece
9 桃子夹头 Driving dog	1套set
10 三角皮带、多楔带、平皮带 V belt/Poly-V belt/Flat belt	各2件pieces each
11 垫铁 Leveling wedge (flukrum base)	3件pieces
12 松卸螺帽 Unlocked nut	1件piece
13 砂轮夹板 Wheel fixers	2套set
14 内磨接长轴 Quill shaft for internal grinding	4套set
15 内六角套筒扳手 Hex socket wrench	1件piece
16 遮板 Blade	1套set

特殊定货附件 Extra Accessories

1 圆弧修整器 Circular wheel dresser	1套set
2 端面修整器 Grinding wheel endface dresser	1套set
4 闭式中心架 Center rest close type	1套set
3 砂轮修整器 Grinding wheel dresser	1套set
5 磨杆 (三件) Grinding rod (3 pcs)	1套set

机床工作精度 Working Accuracy

圆度Roundness	0.001mm
圆柱度Cylindricity	0.004mm
粗糙度Roughness	Ra ≤ 0.04 μm
数显分辨率 Resolution of digital display	横向Transverse 0.001
数显分辨率 Resolution of digital display	纵向Longitudinal 0.001

安装基础图 Foundation Layout

