

KURODA



JK-SERIES

JK-105 ATD / JK-106 ATD / JK-107 ATD

JK-125 ATD / JK-126 ATD / JK-127 ATD

JK-155 ATD / JK-156 ATD / JK-157 ATD

JK-205 ATD / JK-206 ATD / JK-207 ATD



PRECISION SURFACE GRINDING MACHINE

精密平面磨床

JK-SERIES TYPE-I

具有性价比优势的国际性平面磨床

拥有黑田的安心技术支持 1 年保修及售后服务!!

Global standard machine superior in cost performance.
Full support, one-year warranty and after-sale service!!



主控制面板

采用操作性良好的按键式面板。研削量等设定也以数字显示一目了然

- 视觉性良好的操作面板上可准确的进行操作。
- 研削条件等设定可用案件简单的输入。
- 粗 / 精加工时的前后速度，进给量可分别进行设定，可进行高品位，高效能的加工。
- 自动循环结束后，电源自动 OFF。
- 片端，两端进给可以做选择。
- 前后加工行程设定，采用单触式按键输入。

Main control Panel

Adopt a sheet key. Clearly visible for the grinding margin setting with Digital display.

- Easy operation and clear display panel.
- Grinding conditions can easily be input by keys.
- High precision and efficiency are available with the functions of cross-feed speed control and vertical-infeed setting in each. Rough & Finish modes operations.
- Machine automatically power off after the finish of Auto-cycle modes.
- One-end and Both-ends can be selected.
- Cross-feed stroke can easily be set by teaching functions.

JK-SERIES TYPE-I

标准配置外还拥有丰富的选装配件

Excellent gadgets for surface grinding operation are packaged as "Standard package"



照明灯

Work light



砂轮上部修整器

Over-the-wheel dressing attachment



油压箱

考虑到热变位的外置型油压单元。

Hydraulic tank
Hydraulic unit is placed separately to avoid heat dislocation



※ 更有别的尺寸，如有意向可进行商谈。
If any other table size you request, please contact us any time.

TYPE-I 标准配装

- 高品位不锈钢湿式护罩
- 冷却给水装置 (80L/min 磁石分离器 + 过滤纸自动卷送)
- 上下·前后数据光栅尺计数器显示 0.001mm
- 电磁磁台、磁力调整控制器
- 磁台安全锁仕样
- 砂轮上部修整器
- 砂轮平衡台
- 砂轮轴芯
- 标准砂轮
- 砂轮法兰
- 远程式上下脉冲手柄
- 考虑到热变位的外置型油压单元
- 照明灯

Type-I Standard package

- High quality stainless steel covers
- Coolant device(80 /min Magnetic Separator + automatic paper filter feeder)
- Vertical and Cross digital scale counter 0.001mm
- An electromagnetic chuck and controller
- Magnetic chuck interlock is adopted for safety
- Over the wheel dressing attachment
- Wheel balancer
- Wheel mandrel
- Standard wheel
- Wheel flange
- Vertical remote controller pulse handle
- Sole hydraulic unit for longitudinal table to reduce heat displacement
- Hydraulic oil for initial use, Slide surface lubricant oil for initial use
- Work Light



上下脉冲手柄 BOX

使操作性、接近性更加提高的
单独远程式手动脉冲手柄 BOX

Vertical pulse handle BOX
Manual remote-controller pulse handle box
upgrades operability and proximity.



上下、前后数据光栅尺计数器 (1μm)

上下·前后位置由光栅尺显示。计数器显示。
Vertical and Cross digital scale counter (1 micrometer)
Scales and counter are set for vertical and cross accurate positions.



给水装置

过滤纸自动卷送 + 磁石分离器

Coolant device
Automatic paper Filter feeder + Magnetic Separator



左右速度调节手柄

工作台平均速度 5-25m/min
可无级变速

Longitudinal flow controller
Table with infinitely variable speed 5~25m/min



润滑油进给装置

日常管理操作简便配置在机床侧部

Lubricating oil Pump
It is put on the machine side for daily maintenance.



砂轮平衡台

Wheel balancer

宽 X 进深 X 高 (300X240X230)
最大砂轮直径φ500
间距 150



砂轮轴芯

砂轮平衡用轴芯 (长度 200L)
Wheel mandrel



标准砂轮 / 砂轮法兰

Standard Wheel / Wheel flange



法兰把手工具

Flange detachment tool



清扫块

Scraper

JK-SERIES TYPE-II

多元化的升级配置

采用 10 英寸 TFT 彩色对话式触摸屏画面输入，
可简单操作。

工作台上砂轮修整器可以选配, 实现高效能加工。

Upgrade package.

Simple operation with 10inch TFT color LCD with a touch-panel mode

Optional Table-top dresser with software enhances the efficiency of the operation.



主控制面板

一目了然的 10 英寸 TFT 彩色液晶触摸屏输入。
任何人都可以简单操作。

Main control Panel

Easy-to-view 10inch TFT color LCD with a touch panel mode. Easy operation for everybody.

TYPE-II 升级版配置

- 10 英寸彩色对话式触摸屏输入
- 高品位不锈钢湿式护罩
- 主轴变频器控制
- 冷却给水装置 (80L/min 磁石分离器 + 过滤纸自动卷送)
- 上下·前后计数器显示 0.001mm
- 电磁磁台、磁力调整控制器
- 磁台安全锁仕样
- 砂轮上部修整器
- 砂轮平衡台
- 砂轮轴芯
- 标准砂轮
- 砂轮法兰
- 远程式上下脉冲手柄
- 考虑到热变位的外置型油压单元
- 照明灯
- ※ 工作台上砂轮修整器 (选配)

TYPE-II Upgrade package

- 10inch TFT color LCD with a touch-panel mode
- High quality stainless steel covers
- Spindle inverter control
- Coolant device(80 /min Magnetic Separator + automatic paper filter feeder)
- Vertical and Cross digital scale counter 0.001mm
- An electromagnetic chuck and controller
- Magnetic chuck interlock is adopted for safety
- Over the wheel dressing attachment
- Wheel balancer
- Wheel mandrel
- Standard wheel
- Wheel flange
- Vertical remote controller pulse handle
- Sole hydraulic unit for longitudinal table to reduce heat displacement
- Hydraulic oil for initial use, Slide surface lubricant oil for initial use
- Work light
- ※ Table-top dresser with software (optional)

JK-SERIES TYPE-II

配置的升级 Upgrade package.

触摸屏操作

Panel Operation

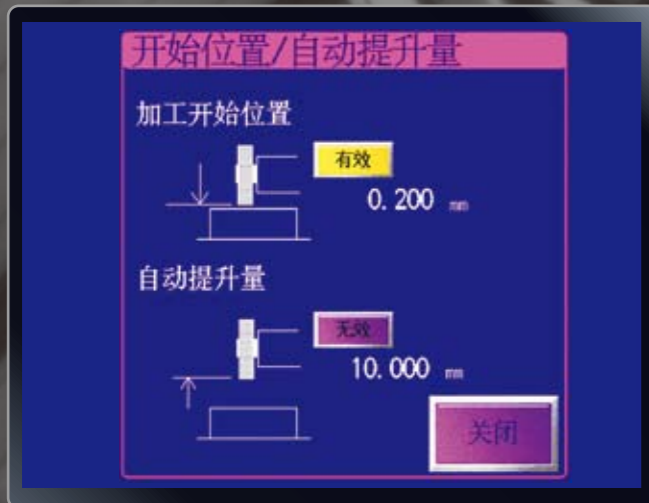


基本加工画面

- 上下·前后计数器显示 0.001mm。
- 可用彩色触摸屏输入简单操作。
- 粗 / 精进刀量 0.001-0.03mm 可输入任意数据。
- 通过示教输入简单操作工件的前端 / 后端。
- 大画面的按键可防止误输入。

Basic in-feeding screen

Vertical and cross digital position display 0.001mm.
Easy operation to Color LCD with a touch-panel mode.
Rough / finish grinding infeed can input any numerical value to 0.001-0.03mm.
Cross feed stroke is can easily be set by teaching functions.
The size of numerical key is large to avoid mistakenly pushing them.

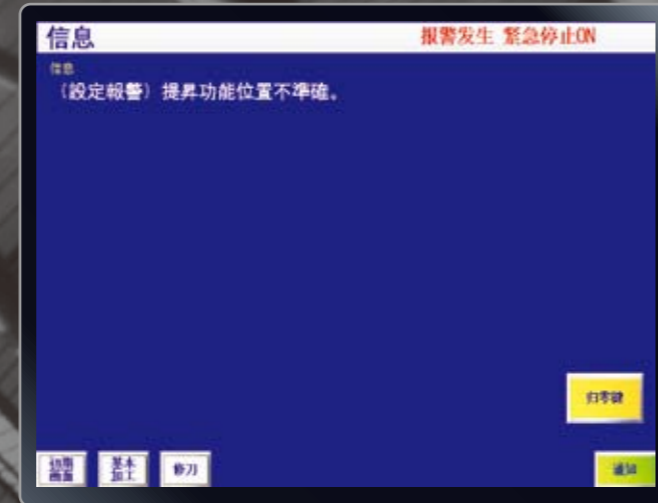


提升 / 下降设定画面

可设定加工开始位置及加工完了位置的提升量
量产加工时最适合。

Start / Finish position setting screen

Automatic Feed-down on starting, feed-up on finishing is configurable.
The ideal for mass production processing.



报警画面

错误信息和报警内容显示于画面。
可显示报警原因及对应方法，问题解决也很简单。

Message alarm

Displaying the contents of any error and alarm.
Displaying the causes and remedies, the troubleshooting is simple.

工作台上砂轮修整器 (选配)

Automatic dressing on the table (Option)

自动修砂条件设定画面

自动修砂条件 粗 / 精加工可分别进行设定。

Setting the dressing conditions for Rough and Finish
Rough and Finish dressing are set



自动修砂位置设定画面

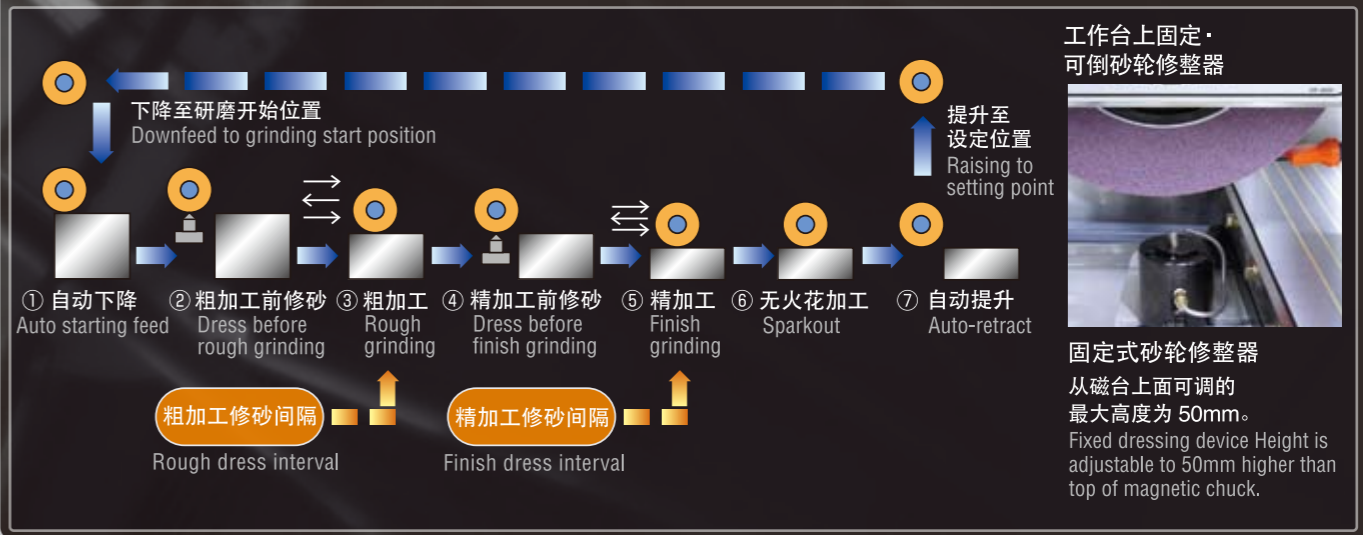
示教砂轮和修整器的位置关系。

Automatic dressing position setting screen
Teaching the positions of a grinding wheel and a dresser



自动修砂循环例

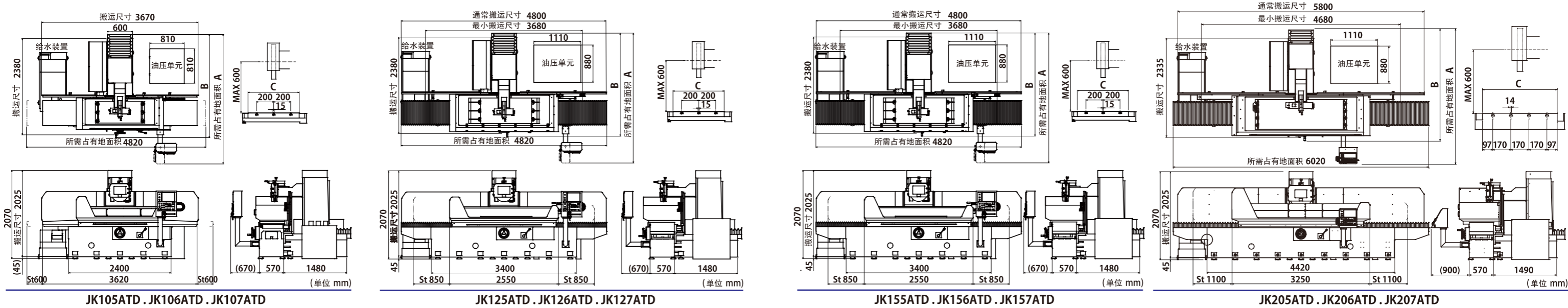
Example of automatic dressing cycle



JK 系列机械本体仕様

JK Series Specifications

項目 ITEM		単位 UNIT	JK-105ATD	JK-106ATD	JK-107ATD	JK-125ATD	JK-126ATD	JK-127ATD	JK-155ATD	JK-156ATD	JK-157ATD	JK-205ATD	JK-206ATD	JK-207ATD			
工作台面面积 (长×宽)	Working surface of the table (L×W)	mm	1050×500	1050×600	1050×700	1550×500	1550×600	1550×700	1550×500	1550×600	1550×700	2050×500	2050×600	2050×700			
工作台最大移动量 (左右×前后)	MAX.traverse of the table (Long×Cross)	mm	1200×560	1200×660	1200×760	1700×560	1700×660	1700×760	1700×560	1700×660	1700×760	2200×560	2200×660	2200×760			
工作台上表面至砂轮轴中心的距离	Distance from table top surface to center of wheel	mm	600														
砂轮尺寸 (外径×宽×内径)	Dimension of the wheel (D×W×B)	mm	405×50×127 (※OP 510×38×127)														
砂轮回转数 (变频器控制)	Spindle speed (Inverter control)	min ⁻¹	0~1800														
磁台尺寸 (长×宽×高 85)	Dimension of electro-magnetic chuck (L×W×H)	mm	1000×500	1000×600	1000×700	1200×500	1200×600	1200×700	1500×500	1500×600	1500×700	2000×500	2000×600	2000×700			
含磁台加工件许容量	Max.mass of workpiece (electro-magnetic chuck is included)	kg	800	1000	1000	1200	1400	1400	1200	1400	1400	1500	1700	1700			
不含磁台	(electro-magnetic chuck is not included)		(515)	(660)	(590)	(770)	(890)	(790)	(770)	(890)	(790)	(930)	(1020)	(880)			
工作台左右进给速度 (油压)	Table Longitudinal feed speed (hydraulic)	m/min	5~25														
立柱 Column	前后手动进给 Manual cross feed	手柄一圈	Feed per revolution of handwheel		mm										5.0		
		脉冲一格	Feed per graduation of handwheel		mm										0.02		
	前后自动进给 Auto cross feed	步进进给量	Step feed per cycle		mm										0.1~20		
		连续进给速度	Continuous feed		mm/min										1100 (60[Hz]) 900 (50[Hz])		
前后快速进给速度	Cross rapid feed rate		mm/min										1100 (60[Hz]) 900 (50[Hz])				
砂轮轴上下进给 Vertical feed	手动进刀量 Manual infeed	手柄一圈	Feed per revolution of handwheel		mm										(×1) 0.1, (×5) 0.5, (×10) 1.0		
		冲脉一格	Feed per graduation of handwheel		mm										(×1) 0.001, (×5) 0.005, (×10) 0.01		
	自动进刀量 Auto infeed	粗进刀量	Rough grinding infeed per cycle		mm										0.001~0.03 (任意)		
		精进刀量	Finish grinding infeed per cycle		mm										0.001~0.03 (任意)		
无火花研磨次数	Sparkout times		次										0~10				
上下快速进给速度	Vertical rapid feed rate		mm/min										300				
马达 Motor	主轴	Wheel spindle		kW										7.5			
	油压泵	Hydraulic pump		kW					2.2		kW					3.7	
	上下进给用 AC 伺服马达	AC servo motor for Vertical feed		kW										0.4			
	前后进给用马达	Motor for Cross feed		kW										0.15			
本体尺寸 (横×纵×高)	Dimension of the machine (W×L×H)	安装时 Installed	mm		3670×3040×2070	3670×3140×2070	3670×3250×2070	4820×3040×2070	4820×3140×2070	4820×3250×2070	4820×3040×2070	4820×3140×2070	4820×3250×2070	6020×3040×2070	6020×3140×2070	6020×3250×2070	
		搬运时 During transport	mm		3670×2380×2025			4800×2380×2025 (3680×2380×2025)					6000×3250×2025 (4680×2380×2025)				
占有地面积 (横×纵)	Floor space required (W×L)	mm		4820×3040	4820×3140	4820×3250	4820×3040	4820×3140	4820×3250	4820×3040	4820×3140	4820×3250	6020×3040	6020×3140	6020×3250		
本体重量	Machine net weight	kg		6000	6300	6600	7200	7500	7800	7200	7500	7800	8400	8700	9000		
所需电力 (不含附属品)	Power supply required (accessories not included)	kVA		19.0					21.5								
所需电力 (含标准附属品)	Power supply required (Standard package)	kVA		21.0					23.5								
床身颜色	Paint color	本体...Munsel N-9 湿式护罩...不锈钢 Machine...Munsel No,N-9 Splash guard...Stainless steel															



JK 机型外观尺寸图 External Dimension

机型	JK105ATD	JK106ATD	JK107ATD	JK125ATD	JK126ATD	JK127ATD	JK155ATD	JK156ATD	JK157ATD	JK205ATD	JK206ATD	JK207ATD
A	3040	3140	3250	3040	3140	3250	3040	3140	3250	3040	3140	3250
B	2420	2520	2630	2420	2520	2630	2420	2520	2630	2420	2520	2630
C	500	600	700	500	600	700	500	600	700	500	600	700

KURODA

●目录内以外的尺寸，如有意向可进行商谈。


- In hope of model sizes other than the above, hear consultation.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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-  使用前，请务必仔细阅读本机的使用说明书。
Before operating this machine, you should first thoroughly read the operation manual.

- 由于产品改进，本商品目录可能发生规格变更，恕不另行通知。
- All dimensions subject to alteration without notice.

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