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PROFILE GRINDING MACHINE

影像曲线磨床

CCD Profile Grinder

光学曲线磨床

Optical Profile Grinder

数显曲线磨床

Digital Profile Grinder

www.gudwill.cn

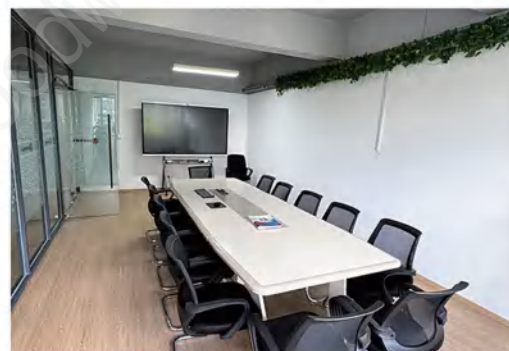
www.goodwillma.com

Gudwill 是一家专注于磨削解决方案的公司。如果您或您的朋友需要磨削加工技术方面的解决方案，我们相信我们可以成为您参考的选择之一。凭借我们团队的良好声誉和专业能力，我们已经与超过 50 家与磨削行业相关的工厂建立了合作关系，其中大多数是上市公司、龙头企业乃至国际型集团。

我们的优势在于能够为客户提供优质的产品、可靠的服务以及负责的态度。我们的销售团队、服务团队、技术支持部门、培训中心、展示与检验室都已准备就绪，能够满足世界各地客户的各种需求。

Gudwill is a company specializing in grinding solutions. If you or your friends need solutions related to grinding processing technology, we believe we can be one of the options you can refer to. With the excellent reputation and professional capabilities of our team, we have established partnerships with over 50 factories related to the grinding industry, most of which are listed companies, leading enterprises, and even international groups.

Gudwill what we can offer to the customers, reliable products trustable service and responsible attitude. Our sales team, service team, technical support department, training center, and display and inspection laboratory are all fully prepared and capable of meeting the various needs of customers from all over the world.



基于团队的声誉和能力，Gudwill 已与 50 多家相关磨削行业的工厂建立了合作伙伴关系，其中大多数是上市公司、龙头企业，甚至还有国际型集团。以下是来自我们合作伙伴的真实照片，展示了他们的厂房和车间内部情况。所有这些工厂都通过了 ISO9001 质量体系认证，并具备 CE 标准的国际生产能力。更重要的是，我们的大多数合作伙伴都在我们周围 300 公里范围内，这使得我们沟通和控制整个过程变得非常容易和便捷。

Based on the reputation and capabilities of the team, Gudwill has established partnerships with over 50 factories in the related grinding industry. Most of these are listed companies, leading enterprises, and even international groups. Here are real photos from our partners, showing their factory buildings and workshop interiors. All these factories have passed the ISO9001 quality system certification and possess international production capabilities in accordance with the CE standard. More importantly, most of our partners are within a 300-kilometer radius around us, which makes communication and control of the entire process very easy and convenient.



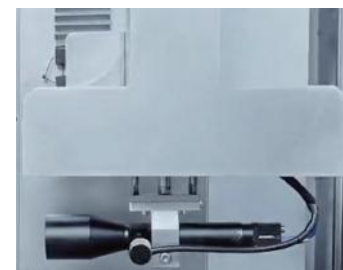
影像曲线磨床

CCD Profile Grinder



CCD80H

超高清CCD视觉 Ultra high definition CCD vision



可物理放大0-150倍，二次放大0-500倍。

Can be physically magnified 0-150 times, and secondarily magnified 0-500 times

导入CAD图形 Import CAD graphics



导入CAD图形，操作简单，提高加工效率。

Importing CAD graphics, easy to operate, improves processing efficiency

高精度 高速主轴 High precision, high-speed spindle



高转速0-24000转 实现更小粗糙度

High speed 0-24000 rpm, achieving smaller roughness

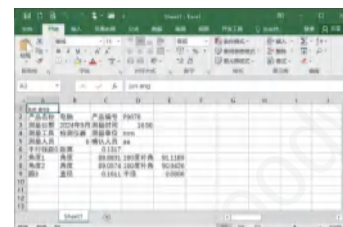
直线电机驱动 Linear motor drive



直线电机驱动 往复运动更平稳

Driven by a linear motor, the reciprocating motion is smoother

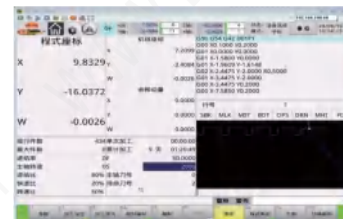
在线检测功能 Online detection function



可在线检测加工尺寸，保证加工精度

Can detect machining dimensions online to ensure machining accuracy

自动程序加工 Automatic program processing



执行程序加工，加工更快捷高效

Execute program processing for faster and more efficient processing

机型特点 Model Features

- 1

本机台底座 主轴固定立座均采用高品质的HT350铸件铸件结构设计合理，保证机械之高刚性和稳定性。

The main spindle of this machine base is fixed with high-quality HT350 castings, and the structural design is reasonable to ensure high rigidity and stability of the machinery.
- 2

采用进口C3级滚珠丝杆及预紧，THK级导轨，全闭环0.0001mm光栅尺反馈，保证轴向之运行精度。

Adopting imported C3 grade ball screw and pre tensioning, THK grade guide rail, fully closed-loop 0.0001mm grating ruler feedback, ensuring axial operation accuracy.
- 3

超高精度电主轴，转速0-24000rpm。

Ultra high precision electric spindle, with a speed range of 0-24000rpm.
- 4

国际先进CCD视觉系统，采用25000000像素高分辨率相机，放大300倍，实现砂轮与工件精准定位，完成超高精密度复杂成型零件研磨加工。

The internationally advanced CCD vision system uses a 25 million pixel high-resolution camera with a magnification of 300 times to achieve precise positioning of the grinding wheel and workpiece, and complete the grinding and processing of ultra high precision complex formed parts.
- 5

工作台往复使用直线电机驱动，往复运动更平稳。湿磨加工，光洁度更高。

The worktable is driven by a linear motor for a smoother reciprocating motion. Wet grinding processing results in higher smoothness.
- 6

自带在线检测功能，可实时检测加工工件的点到点、点到线、线到线、圆弧、角度、半径等尺寸精度。

Equipped with online detection function, it can real-time detect the dimensional accuracy of processed workpieces such as point-to-point, point-to-point, line to line, arc, angle, radius, etc.
- 7

操作简单易学，可实现从粗磨到精磨全流程程序化自动加工，有效节省人工，大幅提高加工效率。

The operation is simple and easy to learn, and it can achieve programmed automatic processing from rough grinding to fine grinding, effectively saving labor and greatly improving processing efficiency.
- 8

采用19英寸触摸屏及特别开发的操作控制系统，实现智能化加工。

Adopting a 19 inch touch screen and a specially developed operation control system to achieve intelligent processing.
- 9

本机可加工形状复杂的精密样板、凸轮、冲头、入子、刀具、成型刀具（滚轮）、非球形异形零件等，加工的最小内R为0.03mm，外R角为0.02mm，可广泛应用于国防工业、航空、航天、造船、汽车、医疗、模具、磨具、刀具等行业。

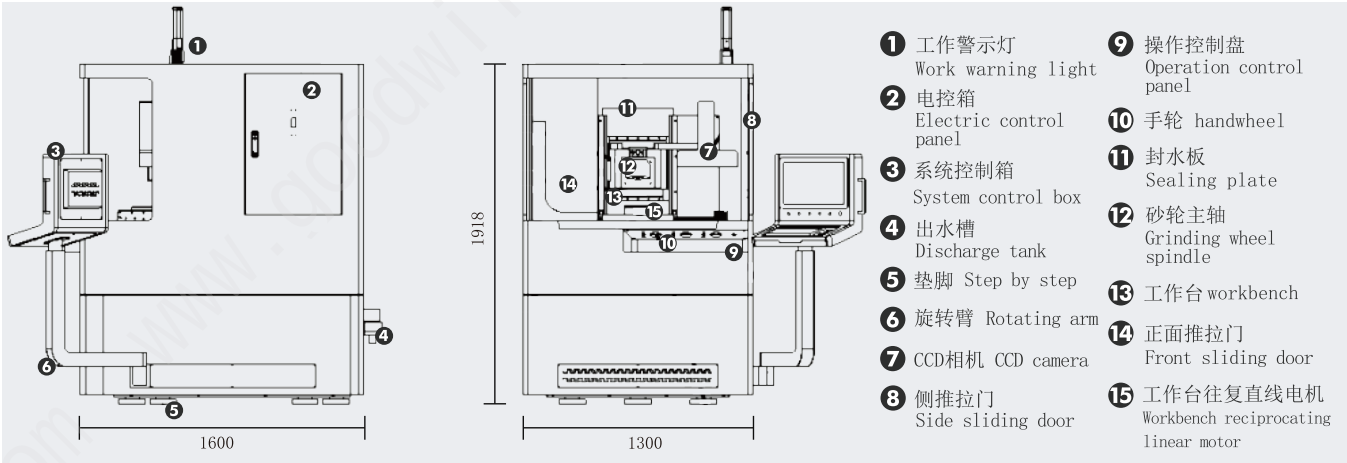
This machine can process precision templates, camshafts, punches, inserts, cutting tools, forming tools (rollers), non spherical shaped parts, etc. with a minimum inner R of 0.03mm and an outer R angle of 0.02mm. It can be widely used in industries such as defense industry, aviation, aerospace, shipbuilding, automotive, medical, molds, grinding tools, and cutting tools.

加工案例
Processing Case



产品参数 Product Parameters

项 目 Project			单 位 Company	CCD80H
CCD屏幕 CCDscreen	触摸显示屏 Touch panel		mm	460×280
	CCD倍率 CCD Magnification ratio		倍	0-300
光源 Light Source	前部照明（透过）Front lighting		/	LED
	后部照明（发射）Rear lighting		/	LED
工作台 workbench	作业面面积（长x宽） Area of homework surface		mm	175x100
	移动量 Movement amount	左右（z轴） Z-axis	mm	0-260
		最小设定单位Minimum setting unit	mm	0.0001
	进给速度 Feed rate	快速进给G00 Fast feedG00	mm/min	1000
		磨削进给G01Grinding feedG01	mm/min	0.1-1000
		往复速度 Reciprocating speed	mm	0-100
砂轮台 Sand wheel platform	移动量 Movement amount	最小设定单位 Minimum setting unit	mm	0.0001
		快速进给G00Fast feedG00	mm/min	1500
		磨削进给G01Grinding feedG01	mm/min	0.1-1000
		前后（x轴） X-axis	mm	0-140
		上下（Y轴） Y-axis	mm	0-160
	放出角 Release the angle	前放出角 Front release angle	°	±5
	砂轮轴 Grinding wheel shaft	砂轮直径 Grinding wheel diameter	mm	Φ65~100×Φ22.23
			mm	
	旋转速度 Rotation speed	rpm	2000~24000	
机械重量 Mechanical weight			kg	3000
噪音 Noise			db	70以下 Under 70
电源容量 Power capacity			kva	18
需要气压/流量 Need air pressure/flow rate			MPa/NI/min	0.6以上/500
控制设备 control equipment	NC		/	自主 autonomy
	螺距错误补正 Correction of pitch errors		/	标准 standard
	手轮 Handwheel		/	3： X, Y, Z
	控制轴数 Control the number of axes		/	3轴（同时2轴） Three axes(simultaneously two axes)



OPG150

光学曲线磨床

Optical Profile Grinder



角度功能 Angle function

10 手轮 准备完成 监视 主页面 15:53:05		
程式坐标	相对坐标	手轮中断
X 2.1790	X 50.9242	X 0.0000
Y 14.9741	Y 119.0198	Y 0.0000
U 97.1709	U -65.8900	U 0.0000
V -21.9180	V 15.3900	V 0.0000
W -12.2620	W -12.2620	W 0.0000
主程序名称 10		
副程序名称 101	加工进给率 0 mm/min	
砂轮主轴转速 3000	砂轮主轴 0 r/min	
磨床主轴转速 50	磨床主轴 0 mm/min	
加工速度 1.0000		
多段加工方式 0		
加工段数 20		
U等距偏移量 -0.3300		

只有X轴手轮可以8种锥形加工，可以输入角度数值或2点示教，砂轮角度成形，锥形手动加工时非常适用。

Only the X-axis handwheel can perform 8 types of cone machining, allowing for input of angle values or 2-point teaching. The grinding wheel angle is formed, making it very suitable for manual cone machining.

教导模式 Teaching mode

10										手轮 准备完成		监视		教导输入		15:53:37	
程式座标				相对座标				手轮中断									
X	2.1790			X	50.9242			X				0.0000					
Y	14.9741			Y	119.0198			Y				0.0000					
U	97.1709			U	-65.8900			U				0.0000					
V	-21.9180			V	15.3900			V				0.0000					
W	-12.2620			W	-12.2620			V				0.0000					
No.	形态	X1	Y1	X2	Y2	圆弧半径及错误报警											
001	G00	0.0000	0.0000														
002	G00	0.0200	6.4900														
003	G01	7.3300	6.4900														
004	G00	7.3300	0.1700														
005	---																
006																	
007						20.002											
008						27.215											
009																	
010						2.251											
报警 警告																	
1	G00	G01	G02/G03	插入	删除	返回起点	转出程式	新档案	相对座标	11.0	面上						

从胶片倍图编制加工程序，砂轮尖仿描倍图上的形状变化点后记录动作就能编制程序，不要复杂计算，不要NC语言的程序编制。

Develop a processing program based on the film magnification map, and record the actions of the grinding wheel tip after simulating the shape changes on the magnification map. Do not use complex calculations or NC language programming.

圆弧功能 Arc function

10 手轮 准备完成 监视 圆弧加工 15:54:06		
程式坐标	相对坐标	手轮中断
X 2.1790	X 50.9242	X 0.0000
Y 14.9741	Y 119.0198	Y 0.0000
U 97.1709	U -65.8900	U 0.0000
V -21.9180	V 15.3900	V 0.0000
W -12.2620	W -12.2620	W 0.0000
X Y X Y		
起点 -37.6623	44.6175	1 -0.0264 7.3288
中间点 -39.6023	42.6675	2 1.7343 -1.8913
终点 -41.6023	42.6275	3 84.7227 25.0826
圆心 5 -40.6625	45.6623	4 -22.3994 -21.8161
X圆心偏移量 0.9398	MM	5 -40.6625 45.6623
Y圆心偏移量 3.0348	MM	

圆弧3点示教自动计算中心点 半径 方向，用X轴手轮可以手动R加工，也可以输入数值加工R。

Arc 3-point teaching automatically calculates the radius direction of the center point. The X-axis handwheel can be used for manual R machining, or numerical R machining can be input.

四轴联动 Four axis linkage

10 手轮 准备完成 监视 角度功能1 15:53:50		
程式坐标	相对坐标	手轮中断
X 2.1790	X 50.9242	X 0.0000
Y 14.9741	Y 119.0198	Y 0.0000
U 97.1709	U -65.8900	U 0.0000
V -21.9180	V 15.3900	V 0.0000
W -12.2620	W -12.2620	W 0.0000
X Y 角度 2		
起点 -39.2630	44.1260	20.3646
终点 -42.8094	42.8096	
角度1 角度2 角度3 角度4 角度5		
0.0000 20.3646 -74.5000 -30.0000 12.0000		

选择多段加工方式，输入加工段数，进行U轴等距偏移量的加工，或进行UV轴教导输入点，记录其UV轴定位呼叫副程序的次数，进行U轴不等距多段加工。

Select the multi-stage machining method, input the number of machining stages, and perform machining with equidistant offset of the U-axis, or perform UV axis teaching input points, record the number of times the UV axis positioning calls the sub program, and perform non-uniform multi-stage machining of the U-axis.

产品参数 Product parameters



项 目 Project		单 位 Company	OPG150
投影屏幕 Projection screen	面积 the measure of area	mm	540×420
	倍率 Magnification ratio	倍	20×, 50×
光源 Light source	下部照明（透过） Lower lighting	/	LED
	上部照明（发射） Upper lighting	/	LED
工作台 Workbench	作业面 Homework surface		mm 400x250
	移动量 Movement amount	纵向（U轴） portrait (U-axis)	mm 240
		横向（V轴） transverse (V-axis)	mm 150
		上下（W轴） Up and down (W-axis)	mm 100
	进给速度 Feed rate	快速进给G00 Fast feed G00	mm/min 2000
		磨削进给G01 Grinding feed G01	mm 0.1-1000
砂轮台 Sand wheel platform	直线轴 Linear axis	移动量X轴 X-axis	mm 200
		移动量Y轴 Y-axis	mm 150
		快速进给G00 Fast feed G00	mm/min 1500
		磨削进给G01 Grinding feed G01	mm/min 0.1~1000
	角度 angle	移动量前放角 Front corner	° (-2~20)
		移动量横放角 Horizontal angle	° ±15
		砂轮台回旋角 Wheel table turning angle	° ±15
	升降 Lifting and lowering	升降移动量（W轴） W-axis	mm 0-150
		升降速度 Lifting speed	rpm 30-300
	砂轮轴 Grinding wheel shaft	砂轮直径 Grinding wheel diameter	mm 65~100×4~6×22.23
			mm 120~180×3~10×31.75
		旋转速度 Rotation speed	rpm 0~24000
			rpm 1000-6000
		主轴 principal axis	/
机械重量 Mechanical weight		kg 4000	
机体面积（长×宽×高） Body area (length x width x height)		mm 1730x1775x2075	
噪音 noise		db 70以下	
电源容量 Power capacity		kva 18	
需要气压/流量 Need air pressure/flow rate		Mpa/NI/min 0.6以上/500	
控制设备 control equipment	NC	/	LNC
	显示器 monitor	/	10.4inch colour
	手轮 handwheel	/	2: X,Y(U,V)
	螺距补正错误 Pitch correction error	/	standard
	控制轴数 Control the number of axes	/	four-axis



DPG150



DPG150AT

DPG150
DPG150AT

数显曲线磨床

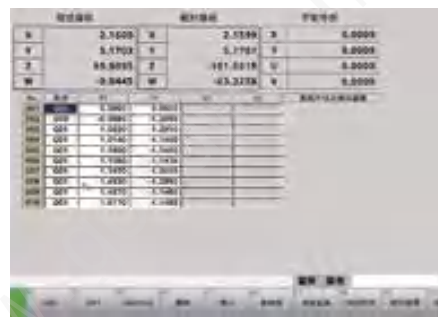
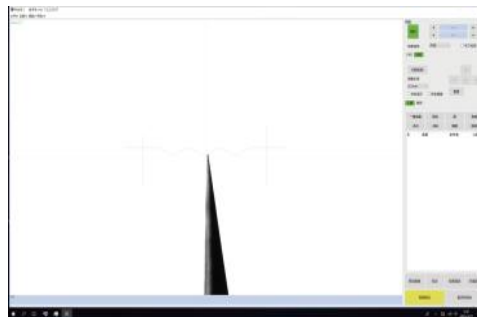
Digital Profile Grinder

丰富的各种独创软件

Rich Variety of Original Software

满足多种多样的客户需求, 多年的经验和积累加工技术知识 • 自动化技术, 开发了曲线磨床专用独创软件。

Meeting diverse customer needs, with years of experience and accumulated knowledge in processing technology and automation technology, we have developed a unique software specifically designed for curve grinders



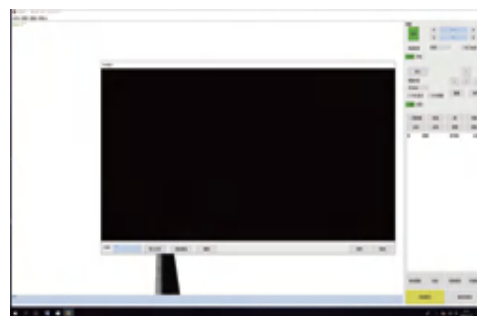
从工件放大图形编制加工程序, 砂轮尖仿描图形上的形状变化点后, 记录动作就能编制程序, 不要复杂计算, 不要NC语言的程序编制。

Develop a machining program by enlarging the shape of the workpiece, simulating the shape change points on the shape with the grinding wheel tip, and recording the actions. Do not use complex calculations or NC language programming



在线检测软件, 工件加工完成, 可以直接测量加工尺寸精度, 节省加工时间, 提高加工效率。

Online detection software enables direct measurement of machining size accuracy after workpiece processing is completed, saving machining time and improving machining efficiency.



导入CAD图形, 无需刻画胶片倍图, 节省时间和节约资源, 能更好提升加工效率, 可根据需要自由放大缩小图像倍率, 操作灵活性更好。

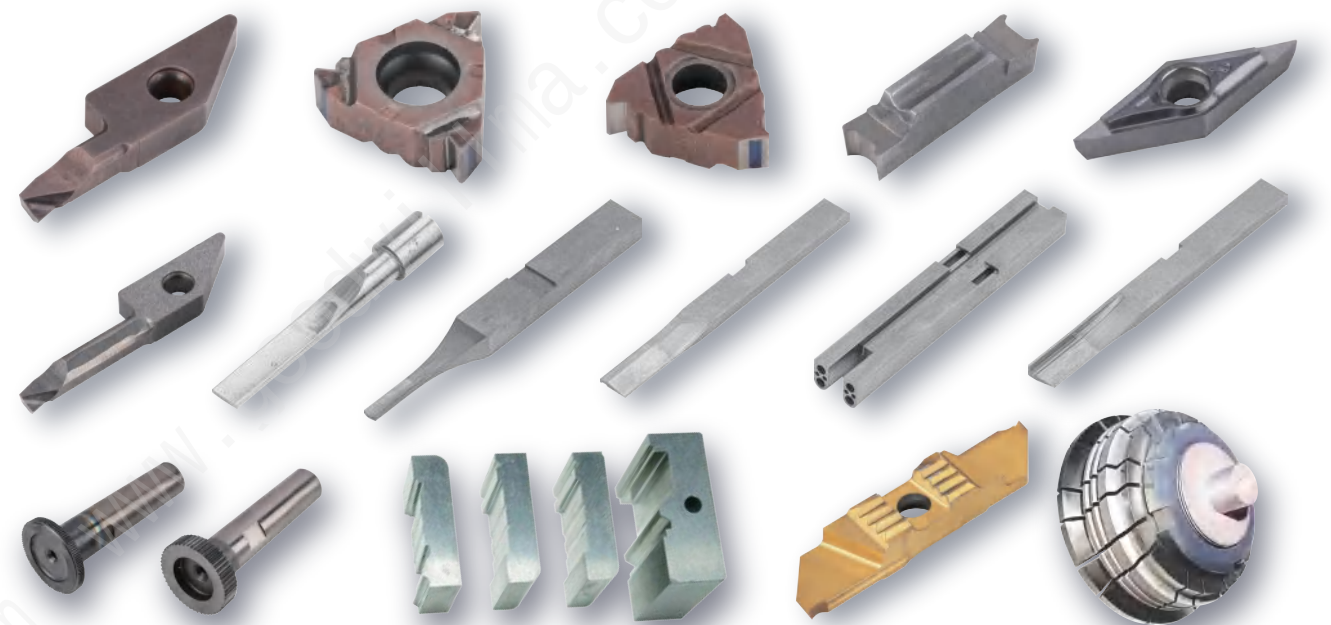
Importing CAD graphics eliminates the need for film magnification, saving time and resources, and improving processing efficiency. Images can be freely enlarged or reduced in magnification as needed, providing greater flexibility in operation.

机型特点 Model Features

- 1** 新型高精度 • 高清晰的 CCD 视觉 New high-precision and high-definition CCD vision
新型 CCD 视觉, 影像更清晰, 显示图形精度更高, 操作更方便, 1-150 倍物理放大, 可自由选择放大缩小倍率, 操作更灵活
The new CCD vision provides clearer images, higher display graphic accuracy, and more convenient operation with 1-150x physical magnification. Users can freely choose the magnification and reduction ratio, making the operation more flexible
- 2** 32 寸触摸显示屏 32 inch touch screen display
采用 32 寸超清晰触摸显示屏, 安装 CCD 视觉软件, 容易实现高精度加工
Adopting a 32 inch ultra clear touch screen display and installing CCD vision software, it is easy to achieve high-precision machining
- 3** 导入 CAD 图形 Import CAD graphics
可导入 CAD 图形, 无需刻画胶片倍图, 操作更方便, 节省成本提高效率。
CAD graphics can be imported without the need to draw film multiples, making operation more convenient, saving costs, and improving efficiency
- 4** 新型 • 超高速高精度砂轮升降台
New type of ultra high speed and high-precision grinding wheel lifting platform
采用新型设计, 砂轮轴升降更平稳。
Adopting a new design, the lifting of the grinding wheel shaft is smoother
- 5** 床身重心设计 Design of bed center of gravity
采用起重螺栓和肋条配置合理化的新开发床身, 消除了中央部分的弯曲, 保证了静态精度。
The newly developed bed body adopts a rationalized configuration of lifting bolts and ribs, eliminating the bending of the central part and ensuring static accuracy.
- 6** 在线检测功能 Online detection function
加工完毕, 可实时检测工件尺寸精度, 保证加工质量, 提高加工效率。
After processing, real-time detection of workpiece size accuracy can be carried out to ensure machining quality and improve machining efficiency

加工案例

Processing case



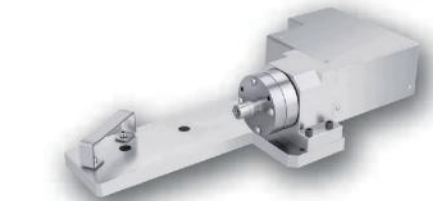
辅助加工治具 Auxiliary processing fixture



TSK160 可倾回转台 TSK160 Tilting turntable
工作直径 Working diameter: 160mm
中心孔莫式圆锥 Central hole Mohist cone: 2mm
中心孔 Central hole: 25x6mm
蜗杆副传动比 Worm gear transmission ratio: 1:90
可倾角度 Tilting angle: 0-90
工作台圆周刻度 Workbench circumference scale: 360
转台手轮刻度值 Scale value of turntable handwheel: 1'



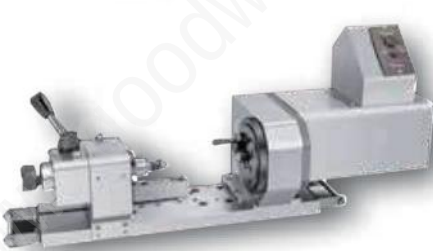
精密三爪 Precision Three Claws
中心高 Center height: 130mm
夹持直径 Clamping diameter: 4-160mm
精度 accuracy: 0.005mm
转速 speed: 50-550rpm



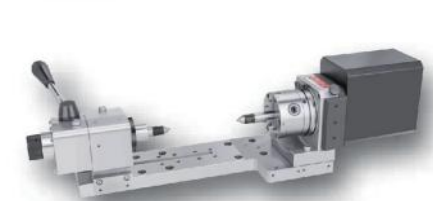
高精度B轴 High precision B-axis
中心高 Center height: 71mm
夹持直径 Clamping diameter: 0.005mm
精度 accuracy: 1.0-25mm
转速 speed: 20-600rpm



砂轮修整器 Grinding wheel dresser
砂轮外径 Outer diameter of grinding wheel: 32mm
夹持直径 Clamping diameter: 1.0-25mm
转速 speed: 20-225rpm



200磨圆治具 200 round grinding fixture
中心高 Center height: 104mm
夹持直径 Clamping diameter: 1.0-25mm
最大装夹直径 Maximum clamping diameter: 200mm
转速 speed: 20-240rpm
精度 accuracy: 0.005mm



100磨圆治具 100 round grinding fixture
中心高 Center height: 67mm
夹持直径 Clamping diameter: 1.0-25mm
最大装夹直径 Maximum clamping diameter: 120mm
转速 speed: 10-300rpm
精度 accuracy: 0.005mm



PFH600M精密三爪 PFH600M Precision Three Claws
中心高 Center height: 102mm
夹持直径 Clamping diameter: 3-80mm
转速 speed: 50-600rpm
精度 accuracy: 0.005mm

产品参数 Product parameters

项 目 Project		单 位 Unit	DPG150	DPG150AT	
机体面积（长×宽×高） Body area (length x width x height)		mm	1730×1775×2075	2100×2000×2000	
投影屏幕 projection screen	触摸显示屏 Touch display	mm	32inch	√	
	CCD倍率 CCD Magnification	times	0-150	√	
光源 Light Source	下部照明（透过） Upper lighting (diverge)		LED	√	
	上部照明（发散） Lower lighting (through)		LED	√	
工作台 Workbench	作业面 Homework surface		mm	400x250	√
	移动量 Movement amount	纵向（U 轴） portrait (U-axis)	mm	230	√
		横向（V 轴） transverse (V-axis)	mm	140	√
		上下（W 轴） Up and down (W-axis)	mm	100	√
		最小设定单位 Minimum unit setting	mm	0.0001	√
	进给速度 Feed rate	快速进给 G00 Fast feed G00	mm/min	1000	√
		磨削进给 G01 Grinding feed G01	mm/min	0.1-1000	√
砂轮台 Sand wheel platform	移动量 Movement amount	移动量 X 轴 X-axis	mm	190	√
		移动量 Y 轴 Y-axis	mm	140	√
		最小设定单位 Minimum unit setting	mm	0.0001	√
		快速进给 G00 Fast feed G00	mm/min	1500	√
		磨削进给 G01 Grinding feed G01	mm/min	0.1-1000	√
	角度 Angle	移动量前放角 Front corner	°	(-2~19) hand movement	(-2~19) Automatic angle adjustment
		移动量横放角 Horizontal angle	°	±10 hand movement	±10 Automatic angle adjustment
		砂轮台回旋角 Wheel table turning angle	°	±15 hand movement	±15 Automatic angle adjustment
	升降 Lifting and lowering	升降移动量 Lifting and moving amount	mm	0-150	0-150 Linear motor drive
		升降速度 lifting speed	rpm	30-400	√
	砂轮轴 Grinding Spindle	砂轮直径 Wheel Diameter	mm	75~100×Φ22.23	√
			mm	120~180×Φ31.75	√
旋转速度 Rotational Speed		rpm	1000~24000 Precision electric spindle	1000~24000 Static pressure spindle	
机械重量 Mechanical weight		kg	4500	√	
噪音 noise		db	70以下	√	
电源容量 Power capacity		kva	18	√	
需要气压/流量 Need air pressure/flow rate		MPa/NI/min	0.6以上/500	√	
控制设备 control equipment	NC		LNC	√	
	显示器 Monitor		10.4inch彩色	√	
	螺距错误补偿 Correction of pitch errors		标准	√	
	手轮 Handwheel		2: X, Y (U, V)	√	
	控制轴数 Controlled Axes		4轴（同时2轴）	√	

※The speed of the process may not necessarily increase or decrease based on the amount of progress