

技术参数 TECHNICAL DATA

控制系统 Control System		轴行程 Axis travel	
CNC控制部分 CNC control unit	力士乐 Rexroth	X轴 (前后轴) Y axis (Forward & Back)	340mm
TFT液晶显示器 TFT liquid crystal display	21英寸 Inch	Y轴 (上下轴) Y axis (Up & Down)	215mm
加工骨锉类型 Rasper type		Z轴 (左右轴) Z axis (Left & Right)	445mm
环齿骨锉, 交错齿骨锉等 Ring tooth, Staggered tooth, etc.		分辨率 (C轴) Resolution C axis	0.001°
测量系统 Measurement system		B轴转台 B axis turntable	-40°~+225°
刀具测量 Tool measurement	3-D 探针 Probe	分辨率 (B轴) Resolution B axis	0.001°
高精度磨轴电机 High precision grinding spindle motor	0-8000rpm	轴驱动 (X,Y,Z轴) Axis drives X Y Z axis	直线电机 Linear Motors
主轴功率 Spindle power	24KW	机床尺寸 Machine dimensions	
砂轮 Grinding wheels		长度/宽度/高度 Length/Width/Height	1805mm*1751mm*2153mm
最大直径 Max diameter	210mm	重量 Weight	Appr.8000kg
砂轮库 Wheel changer	3 工位 3 Positions	电源 Power supply	380V-50HZ/85A
主轴接口 Spindle interface	HSK50	功率输入 Power input	32kw
C轴(工件轴) C-axis (Workpiece axis)		压缩空气 Air Supply	≥6bar
标准C轴 (锥度) Standard C-axis (Spindle taper)	SK50	颜色 Colour	PANTONE 10018/190118
夹紧系统 Clamping system	自动 Automatic	* 哈勒公司保留对技术规格参数修改或升级的权利。 Suzhou Haller reserves the right to modify or upgrade the technical specifications.	
驱动形式 (直驱) Drive (Direct drive)	最大1000rpm 1000rpm max.		
冷却方式 Cooling			
主轴与所有伺服轴冷却系统 Cooling system of spindle and all servo axes	独立油冷 Separate oil cooling		
油雾接口 Oil mist interface	∅150mm		



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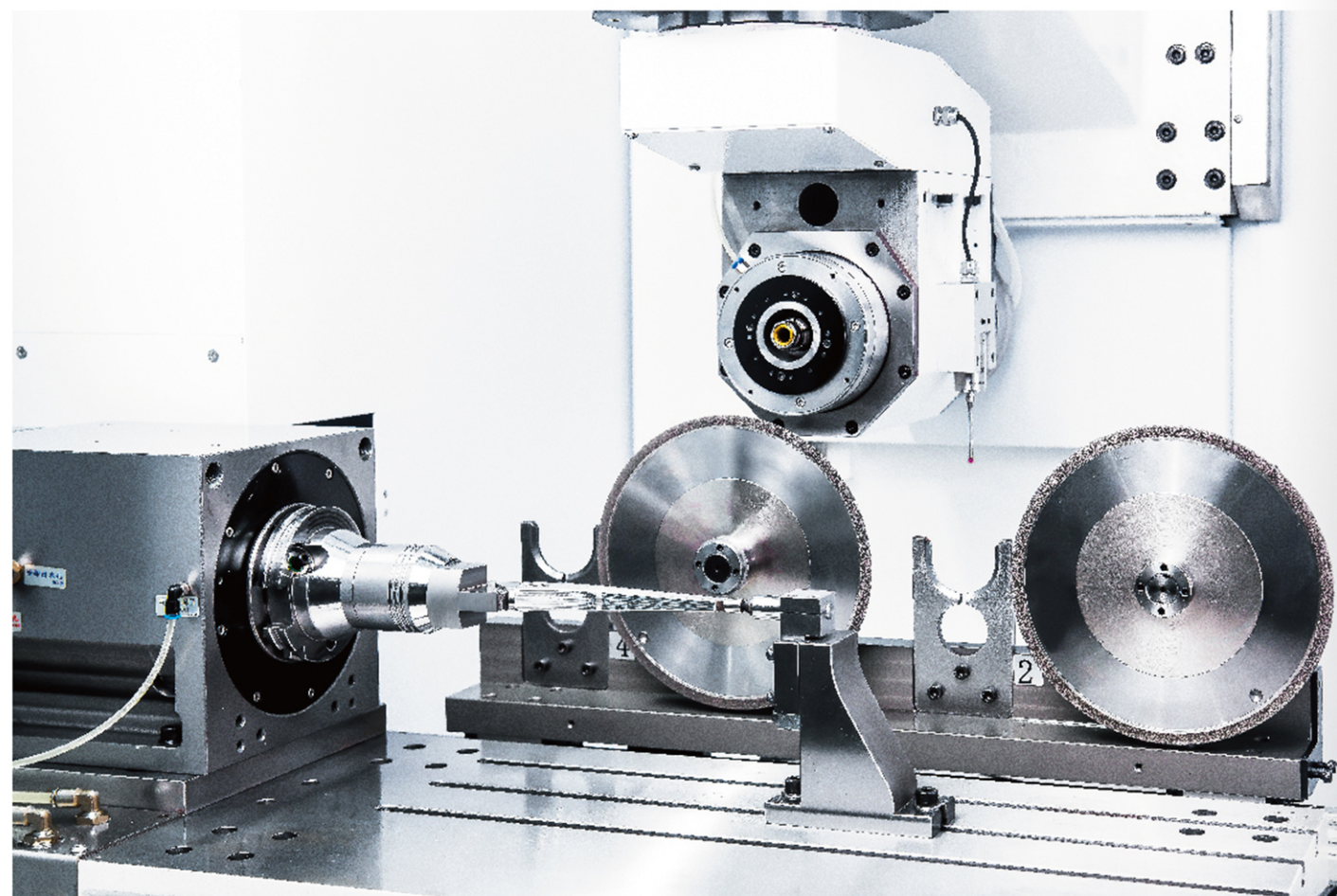
骨锉专用磨床 BONE RASPER GRINDING MACHINE

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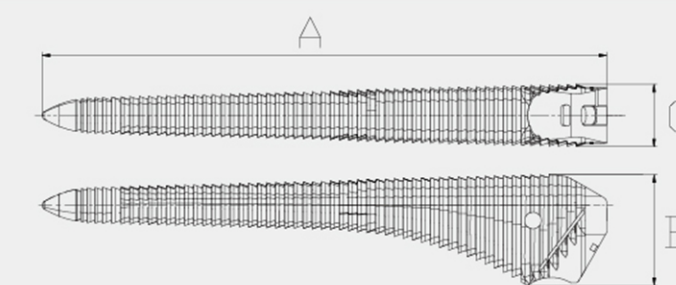
功能优势 FUNCTION ADVANTAGES

- ▶ 铸铁床身刚性好，不易变形，耐磨性强；
Cast iron machine bed has good rigidity, not easy to deform, strong anti-abrasion property;
- ▶ 各直线轴采用直线电机配海德汉高精度光栅尺，保证加工精度；
Linear axes use linear motors equipped with Heidenhain high precision glass scale, ensure machining precision;
- ▶ 自动探测系统，可检测工件起始位置，无需人工调试；
Automatic probing system for starting position detection without manual commissioning;
- ▶ 自主开发的骨锉磨削软件，人机交互，操作简单；
Innovative grinding software, human-computer interaction, easy to operate;
- ▶ 主轴功率24KW，传动精度高，切削效率高，最高转速 8000转；
Spindle power 24KW, good drive precision, high grinding efficiency, and maximum speed 8000 rpm;
- ▶ 配有砂轮库，可以实现砂轮自动更换，满足骨锉加工工艺需求；
Equipped with wheel changer, automatically change the grinding wheel to meet the processing requirement;
- ▶ 拥有独立冷却系统，确保生产油温恒定；
Separate cooling system to ensure the production under constant oil temperature;
- ▶ 配有全封闭式防护罩与透明的亚克力防护窗，安全方便；
Equipped with fully enclosed protective cover and transparent acrylic protective window, safe and convenient;
- ▶ 力士乐数控系统，简单的工程设计和便捷的维护；支持工业4.0扩展标准接口。
Rexroth CNC control system, simple engineering design and convenient maintenance; supports Industry 4.0 extension standard interfaces.

骨锉外形示意图 DIAGRAM OF RASPER SHAPE

环齿 RING TOOTH

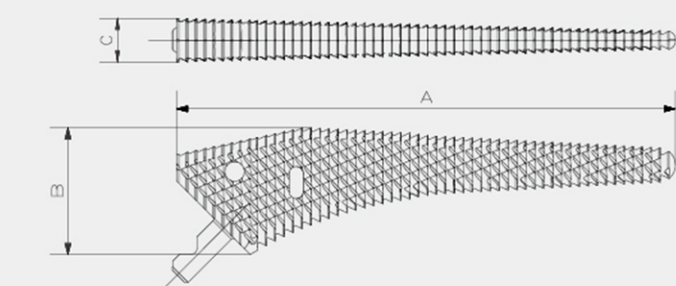
规格 Dimension		
A	B	C
90-200	30-80	10-80



参考图 Reference drawing

交错齿 STAGGERED TOOTH

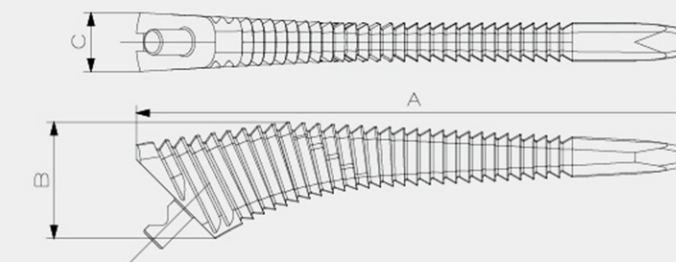
规格 Dimension		
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90-200	30-80	10-80



参考图 Reference drawing

扇形齿 SCALLOPED TOOTH

规格 Dimension		
A	B	C
90-200	30-80	10-80



参考图 Reference drawing

工件示例 WORKPIECE SAMPLE

