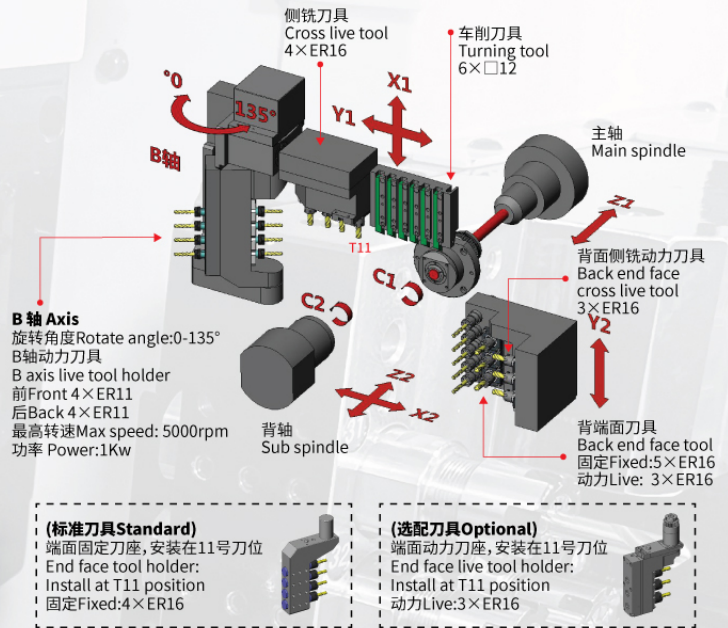




# SZ-207F B轴 走心机

瑞士型精密数控纵切自动车床 CNC Swiss Type Automatic Lathe

Sowin 硕方



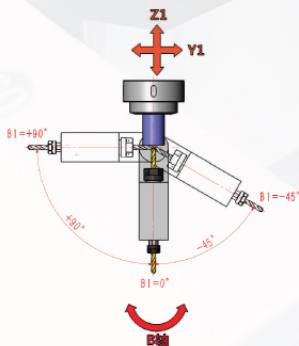
## 硕方最新B轴系列机型—SZ-207F适应多种行业的复杂工件加工, 尤其医疗行业

The Sowin newest B-axis lathe — SZ-207F, it is suitable for complex workpiece processing in a variety of industries, especially in the medical industry

- 创新设计、高刚性、高精度 -- 自动 B 轴动力刀具单元。
- 伺服 B 轴，角度 0-135°可任意调节。
- 最大装刀数量 29 把，刀具丰富，模块化布局，适合复杂零件加工。
- Y 轴采用倾斜型刀架台结构设计，具备高刚性、高稳定性。
- Innovative design, high rigidity, high precision - automatic B-axis power tool unit.
- Servo B axis, Angle 0-135° can be adjusted.
- The max tool installation 29pcs, rich tools, modular design, suitable for complex parts processing.
- The design of slant Y axis tool rest structure has high rigidity and high stability.

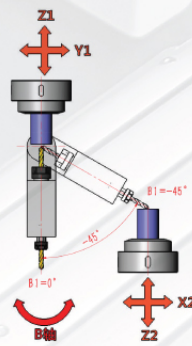
### 主轴端-B轴行程图

Main spindle side- B axis travel



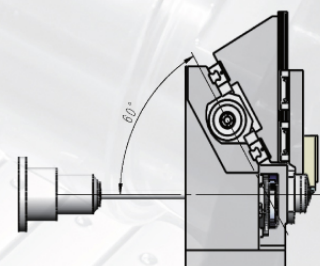
### 背轴端-B轴行程图

Sub spindle side- B axis travel



### 倾斜型刀架台

Slant type tool rest



创新设计、高刚性、高精度  $\phi 20\text{mm}$  系列走心机——全自动伺服B轴

# SZ-207F B轴 走心机

瑞士型精密数控纵切自动车床  
CNC Swiss Type Automatic Lathe

**Sowin 硕方**

| 型号 Model                                                              |                                             | SZ-207F                             |
|-----------------------------------------------------------------------|---------------------------------------------|-------------------------------------|
| NC装置 NC device                                                        |                                             | FANUC 0i-TF Plus                    |
| 电源 Power source                                                       |                                             | 200AVC                              |
| 机床额定功率 Lathe rated power                                              | Kw                                          | 12                                  |
| 加工范围 Machining range                                                  |                                             |                                     |
| 最大加工直径 Machining range dia.                                           | mm                                          | Ø20                                 |
| 主轴最大夹持直径 Main spindle max clamping dia.                               | mm                                          | Ø20                                 |
| 最大一次送料长度 Max feed length (once)                                       | mm                                          | Max 240                             |
| 主/背轴 Main/sub spindle                                                 |                                             |                                     |
| 主轴功率 Main spindle power                                               | Kw                                          | 2.2/3.7                             |
| 背轴功率 Sub spindle power                                                | Kw                                          | 1.5/2.2                             |
| 主轴最大通孔直径 Main spindle max through hole dia.                           | mm                                          | Ø27                                 |
| C轴分度 C axis resolution                                                | °                                           | 0.001                               |
| 主/背轴转速 Main/sub spindle rev speed                                     | rpm                                         | Main 2900/9790 Sub 3870/11800       |
| 背轴最大夹持直径 Sub spindle max clamping dia.                                | mm                                          | Ø20                                 |
| 背轴最大通孔直径 Sub spindle max through hole dia.                            | mm                                          | Ø27                                 |
| 主轴最大钻孔深度 Main spindle max drilling depth                              | mm                                          | 40                                  |
| 主轴最大行程 Main spindle max travel                                        |                                             |                                     |
| 有导套 With guide bush                                                   | mm                                          | 240                                 |
| 无导套 Non guide bush                                                    | mm                                          | 80                                  |
| 最大刀具安装数量 Max tool installed qty.                                      | pcs                                         | 29pcs                               |
| 主轴侧刀具 Main spindle side tools                                         |                                             |                                     |
| 车削刀具 OD Turning tool                                                  | 数量×型号 Qty.×Model                            | 6×□12                               |
|                                                                       | 数量×型号 Qty.×Model                            | 4×ER16                              |
| 侧铣刀具<br>Cross live tool                                               | 钻孔直径 Drilling dia.                          | mm Max Φ10                          |
|                                                                       | 螺纹加工(攻丝/板牙) Tapping/Threading die dia.      | Max M6                              |
|                                                                       | 动力头转速 Live tool rev speed                   | rpm Max 5000                        |
|                                                                       | 动力头功率 Live tool power                       | Kw 1.0                              |
| 端面B轴刀具<br>End face B axis tool                                        | 动力刀具 数量×型号 Live tool Qty.×Model             | 正面Front:3×ER11+背面Back:3×ER11        |
|                                                                       | 钻孔直径 Drilling dia.                          | mm Max Φ7                           |
|                                                                       | 螺纹加工(攻丝/板牙) Tapping/Threading die dia.      | Max M5                              |
|                                                                       | 动力头转速 Live tool rev speed                   | rpm Max 5000                        |
|                                                                       | 动力头功率 Live tool power                       | Kw 1.0                              |
|                                                                       | 旋转角度 Rotation angle                         | ° 0°~135°                           |
|                                                                       | 旋转精度(角秒) Rotation accuracy(Angle of second) | " 90                                |
| 背轴刀具 Sub spindle tool                                                 |                                             |                                     |
| ① 端面刀具<br>End face tool                                               | 固定刀具数量×型号 Qty.×Model                        | 5×ER16                              |
|                                                                       | 钻孔直径 Drilling dia.                          | mm Max Φ10                          |
|                                                                       | 螺纹加工(攻丝/板牙) Tapping/Threading die dia.      | Max M8                              |
|                                                                       | 动力刀具数量×型号 Live tool Qty.×Model              | 3×ER16                              |
| ② 侧面刀具<br>Cross tool                                                  | 钻孔直径 Drilling dia.                          | mm Max Φ10                          |
|                                                                       | 螺纹加工(攻丝/板牙) Tapping/Threading die dia.      | Max M6                              |
|                                                                       | 动力头转速 Live tool rev speed                   | rpm Max 5000                        |
|                                                                       | 动力头功率 Live tool power                       | Kw 1.0                              |
|                                                                       | 动力刀具数量×型号 Live tool Qty.×Model              | 3×ER16                              |
|                                                                       | 钻孔直径 Drilling dia.                          | mm Max Φ10                          |
|                                                                       | 螺纹加工(攻丝/板牙) Tapping/Threading die dia.      | Max M6                              |
|                                                                       | 动力头转速 Live tool rev speed                   | rpm Max 5000                        |
|                                                                       | 动力头功率 Live tool power                       | Kw 1.0                              |
| 快速进给速度 Rapid feed speed                                               |                                             | m/min 30(Z1/Z2/X2/Y1) 24(X1),15(Y2) |
| 进给电机功率 Feed motor power                                               |                                             | Kw 0.75(Z1/Z2/X1/X2/Y1/Y2)          |
| 切削油泵功率 Cutting oil pump power                                         |                                             | Kw 0.4                              |
| 主/背轴冷却油泵功率 Main/sub spindle cooling oil pump power                    |                                             | Kw 1.2                              |
| 润滑油泵功率 Lubricating oil pump power                                     |                                             | Kw 0.25                             |
| 接料盒最大接料长度 Max collecting length of workpieces collect box             |                                             | mm 80                               |
| 主轴高度(主/背轴距离床身最底部) Main/sub spindle center to the bottom of lathe body |                                             | mm 1030                             |
| 切削油箱体积 Cutting oil tank volume                                        |                                             | L 160                               |
| 气源压力 Air pressure                                                     |                                             | Mpa ≥0.5                            |
| 净重 Net weight                                                         |                                             | Kg 2800                             |
| 外形尺寸(长×宽×高) Dimensions(L×W×H)                                         |                                             | mm 2363×1420×1918                   |
| ①② 动力头,使用同一个电机 Live head use same servo motor                         |                                             |                                     |

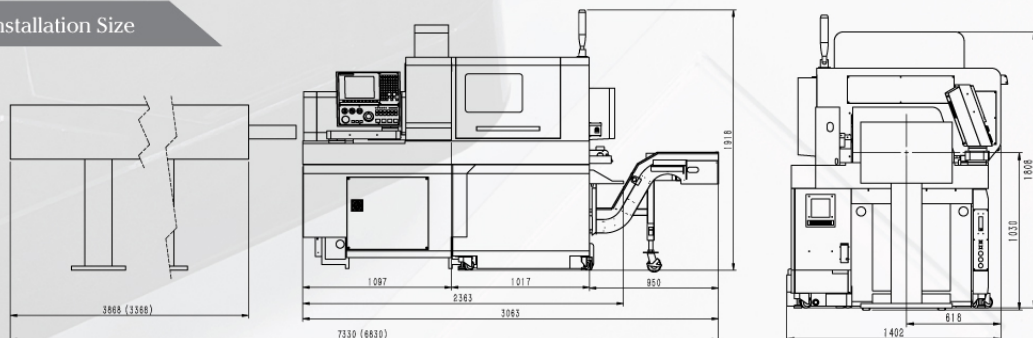
## 标准配置 Standard configuration

|                                                                   |
|-------------------------------------------------------------------|
| 日本FANUC Oi-TF plus控制系统<br>Japan FANUC Oi-TF plus control system   |
| 10.4 寸彩色液晶显示屏<br>10.4 inch Color LCD display                      |
| 主轴动力头冷却系统<br>Main spindle/live head cooling system                |
| 润滑系统<br>Lricating system                                          |
| 旋转套装置<br>Rotatory guide bush                                      |
| 主/背轴吹气装置<br>Main/sub spindle air blowing device                   |
| LED工作照明灯<br>LED working light                                     |
| 漏电保护装置<br>Electric leakage protection                             |
| 变压器<br>Transformer                                                |
| 3色警示灯<br>3-colour tower light                                     |
| 上银/银泰丝杆/导轨, C3级<br>HIWIN/PMI screw/guide rail, Class 3            |
| 油箱<br>Cutting oil tank                                            |
| 主轴夹头/背轴夹头/导套各1个<br>Main/sub spindle collet 1pcs; guide bush 1 pcs |
| 工具箱<br>Tool cabinet                                               |
| 传送带<br>Chip conveyor                                              |
| 操作说明书<br>Manual book                                              |

## 选配置 Optional configuration

|                                                     |
|-----------------------------------------------------|
| 自动送料机构<br>Automatic bar feeder                      |
| 排屑机<br>Chip conveyor                                |
| 油雾收集器<br>Oil mist collector                         |
| 高压泵<br>High pressure pump                           |
| 长工件回收装置<br>Long workpiece collector                 |
| 外置照明灯<br>External working litht                     |
| 断丝锥检测装置<br>Tap breakage detector                    |
| 材料切断检测装置<br>Cut-off tool breakage detector          |
| 异形材料夹紧装置<br>Special shaped material clamping device |
| 单面正面偏心座(一托三)<br>Front eccentric tool holder         |
| 自动断屑功能<br>Variable frequency machining function     |
| 灭火器<br>Fire extinguisher                            |

## 安装尺寸图 Installation Size



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