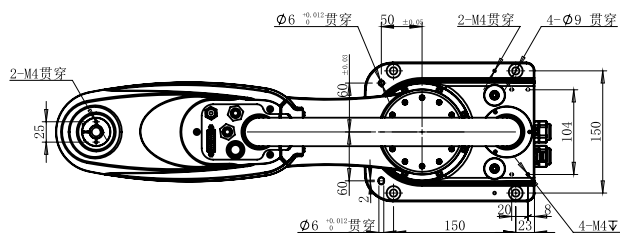
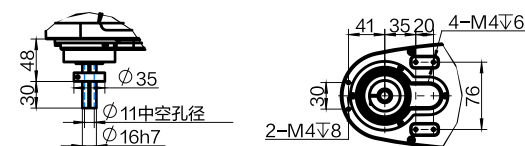
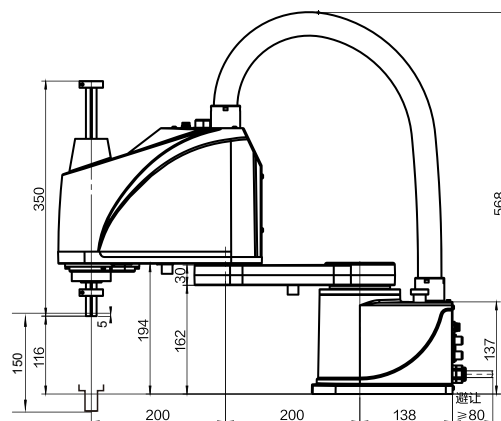
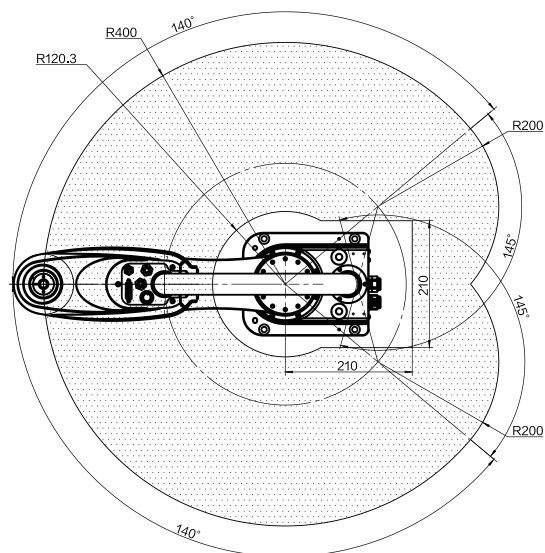


## 拓星辰 TRH002-400-150-S



| 产品型号 ROBOT MODEL                            |                                                                  | TRH002-400-150-S                  |
|---------------------------------------------|------------------------------------------------------------------|-----------------------------------|
| 机械臂长 Arm Lendth                             | 第1+第2机械臂<br>1-2 Axis                                             | 400mm                             |
|                                             | 第1机械臂 1 Axis                                                     | 200mm                             |
|                                             | 第2机械臂 2 Axis                                                     | 200mm                             |
| 负载 Payload                                  | 额定 Rated                                                         | 2kg                               |
|                                             | 最大 Max                                                           | 5kg                               |
| 4轴转动惯量 I1<br>4 Axis Inertia                 | 额定 Rated                                                         | 0.01kg · m²                       |
|                                             | 最大 Max                                                           | 0.1kg · m²                        |
| 重复定位精度<br>Position Repeatability            | 第1+第2关节<br>1-2 Axis                                              | ± 0.01mm                          |
|                                             | 第3关节 3 Axis                                                      | ± 0.01mm                          |
|                                             | 第4关节 4 Axis                                                      | ± 0.01°                           |
| 标准循环时间(额定负载)I2I Picking Cycle (Rated Load)  |                                                                  | 0.33s                             |
| 运动范围<br>Working Range                       | 第1关节 1 Axis                                                      | ± 140°                            |
|                                             | 第2关节 2 Axis                                                      | ± 145°                            |
|                                             | 第3关节 3 Axis                                                      | 150mm                             |
|                                             | 第4关节 4 Axis                                                      | ± 360°                            |
| 最大运动速度<br>Max Speed                         | 第1+第2关节<br>1-2 Axis                                              | 7540mm/s                          |
|                                             | 第3关节 3 Axis                                                      | 1067mm/s                          |
|                                             | 第4关节 4 Axis                                                      | 1946 °/s                          |
| 用户电路 User Circuit                           | 15针 ( D-Sub接口 )                                                  |                                   |
| 用户气路 User Gas Path                          | φ 4mm×1, φ 6mm×2                                                 |                                   |
| 电压 Voltage                                  | 单相AC220V±10%, 50Hz                                               |                                   |
| 功率 Power                                    | 0.6kW                                                            |                                   |
| 安装环境<br>Installation Environment            | 环境温度<br>Temperature [3]                                          | 0℃~45℃                            |
|                                             | 环境相对湿度<br>Humidity                                               | 10%~80%RH,<br>无结露 No Condensation |
|                                             | 本体防护等级<br>Degree Of Protection                                   | IP20                              |
| 适用控制柜 Controller                            | TR1100S4LC08X5E00000<br>TRC04-040-S-1101<br>TRB100S4M322100X1E01 |                                   |
| 本体重量 (不含线缆) Robot Weight (Excluding Cables) |                                                                  | 14kg                              |

### 运动空间及外形安装尺寸图 Motion range and installation dimension drawing



- [1] 4轴转动惯量：负载中心与第4关节中心位置一致，如果不一致，根据实际负载及工况评估。  
[2] 标准循环时间：额定负载下，机器人往返走一个拱形运动的循环时间（水平运动300mm，垂直运动25mm）。  
[3] 环境温度：环境温度变化不应过大，10℃以内为宜，如果产品在接近建议环境温度范围下限的低温环境下使用时，或产品因长时间停止未使用时，建议预热10分钟后再进行作业使用。
- [1] 4 Axis Inertia: The position of the load center is consistent with the center of the fourth joint. If it is not consistent, it should be evaluated based on the actual load and working conditions.  
[2] Picking Cycle: The cycle time for a robot to move back and forth in an arch shape under rated load (horizontal movement of 300mm and vertical movement of 25mm).  
[3] Environmental Temperature: The temperature change in the environment should not be too large, preferably within 10 °C. If the product is used in a low-temperature environment close to the lower limit of the recommended environmental temperature range, or if the product has not been used for a long time, it is recommended to preheat for 10 minutes before use.