



|                          |                             |         |                             |         |                            |                         |  |
|--------------------------|-----------------------------|---------|-----------------------------|---------|----------------------------|-------------------------|--|
| Gear Ratio               | 30                          | 40      | 50                          | 70      | 100                        |                         |  |
| Rated Output Torque      | 310 N.m                     | 310 N.m | 310 N.m                     | 310 N.m | 310 N.m                    |                         |  |
| Max Output Torque        | 3 Times Rated Output Torque |         | Backlash                    |         | None-backlash (adjustable) | Overturning Torque      |  |
| Bearing Structure        | Cross Roller Bearing        |         | Torsional Rigidity          |         | 58 N.m/arcmin              | Lubrication             |  |
| Allowable Axial Loading  | 12000 N                     |         | Precision Lifespan          |         | 30000 h (Intermittent)     | Transmission Efficiency |  |
| Allowable Moment Inertia | 200 N.m                     |         | Positioning Accuracy        |         | ≤3 arcmin                  | Noise                   |  |
| Allowable Disc Speed     | 200 rpm (Intermittent)      |         | Repeat Positioning Accuracy |         | ≤30 arcsec                 | Weight                  |  |
| Parallelism              | ≤0.015 mm                   |         | Protection Level            |         | IP50                       | Installation Method     |  |
| Concentricity            | ≤0.03 mm                    |         | Matched Servo Motor         |         | 1000-3000W                 | Designed Loading        |  |
|                          |                             |         |                             |         |                            | 180kg                   |  |

|            |            |     |                 |     |              |  |         |  |
|------------|------------|-----|-----------------|-----|--------------|--|---------|--|
| 减速比 i      | 30         | 40  | 50              | 70  | 100          |  |         |  |
| 额定输出扭矩 N.m | 310        | 310 | 310             | 310 | 310          |  |         |  |
| 最大输出扭矩 N.m | 3倍额定输出扭矩   |     |                 |     |              |  |         |  |
| 轴承结构       | 交叉滚子轴承     |     | 齿隙              |     | 无齿隙 (可调节)    |  | 防护等级 IP |  |
| 容许轴向负载 N   | 12000      |     | 扭转刚性 N.m/arcmin |     | 58           |  | 润滑方式    |  |
| 容许惯性力矩 N.m | 200        |     | 精度寿命 h          |     | 30000 (间歇运转) |  | 传动效率 %  |  |
| 容许盘面转速 rpm | 200 (间歇运转) |     | 定位精度 arcmin     |     | ≤3           |  | 噪音 dB   |  |
| 旋转平台同心度 mm | ≤0.015     |     | 反复定位精度 arcsec   |     | ≤30          |  | 重量 kg   |  |
| 旋转平台平行度 mm | ≤0.03      |     | 适配伺服马达 W        |     | 1000-3000    |  | 安装方式    |  |
| 惯量力矩 N.m   | 3780       |     | 适配步进马达          |     | 110 步进       |  | 设计承重 Kg |  |
|            |            |     |                 |     |              |  | 180     |  |

|    |    |    |       |    |     |                               |  |       |
|----|----|----|-------|----|-----|-------------------------------|--|-------|
|    |    |    |       |    |     | <b>HRTK280JS-L1-SV1</b>       |  |       |
|    |    |    |       |    |     | 中空旋转平台<br>Hollow Rotary Table |  |       |
| 标记 | 处数 | 分区 | 更改文件号 | 签名 | 年月日 | 阶段标记                          |  | 重量 比例 |
| 设计 |    |    | 标准化   |    |     |                               |  | 1:1   |
| 校对 |    |    |       |    |     |                               |  |       |
| 审核 |    |    |       |    |     |                               |  |       |
| 工艺 |    |    | 批准    |    |     | 共 张 第 张                       |  |       |
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