

# TTRAD-E 性能表 TTRAD-E TECHNICAL SPECIFICATION TABLE

| TTRAD-E Technical Specification Table                        |                             |                       |                 |                       |                 |                       |                 |
|--------------------------------------------------------------|-----------------------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
| Specification<br>規格                                          |                             | TTRAD-7E              |                 | TTRAD-25E             |                 | TTRAD-45E             |                 |
| Rotation<br>轉動方式                                             |                             | Shaft Run<br>軸轉動      | Case Run<br>殼轉動 | Shaft Run<br>軸轉動      | Case Run<br>殼轉動 | Shaft Run<br>軸轉動      | Case Run<br>殼轉動 |
| Ratio<br>減速比                                                 |                             | 61                    | 60              | 61                    | 60              | 79                    | 78              |
|                                                              |                             | 83                    | 82              | 73                    | 72              | 91                    | 90              |
|                                                              |                             | 103                   | 102             | 83                    | 82              | 124                   | 123             |
|                                                              |                             | 121                   | 120             | 103                   | 102             | 181                   | 180             |
|                                                              |                             | —                     | —               | 123                   | 122             | 241                   | 240             |
| Rated Output Torque<br>額定輸出扭矩                                | Nm<br>kgf-m                 | 83<br>(8.46)          |                 | 245<br>(25)           |                 | 460<br>(46.8)         |                 |
| Acceleration & Braking Torque<br>加速和制動扭矩                     | Nm<br>kgf-m                 | 136<br>(14)           |                 | 515<br>(52)           |                 | 1158<br>(118)         |                 |
| Instantaneous Max. Allowable Torque<br>瞬時最大容許轉矩              | Nm<br>kgf-m                 | 415<br>(42)           |                 | 1000<br>(102)         |                 | 2300<br>(234.4)       |                 |
| Rated Input Speed<br>額定輸入轉速                                  | Nr<br>(rpm)                 | 1500                  |                 | 1500                  |                 | 1500                  |                 |
| Rated Lifetime<br>額定壽命                                       | Hr                          | 6000                  |                 | 6000                  |                 | 6000                  |                 |
| Allowable Max. Input Speed<br>瞬時容許最高輸入轉速                     | Nmax<br>(rpm)               | 3000                  |                 | 2500                  |                 | 2500                  |                 |
| Tilting Stiffness<br>傾斜鋼度                                    | Nm/arc.min<br>kgf-m/arc.min | 117<br>(12)           |                 | 372<br>(38)           |                 | 931<br>(95)           |                 |
| Torsional Stiffness<br>扭轉鋼度                                  | Nm/arc.min<br>kgf-m/arc.min | 20<br>(2)             |                 | 49<br>(5)             |                 | 108<br>(11)           |                 |
| Max. Lost Motion<br>最大無效行程                                   | (arc.min)                   | <2.0                  |                 | <1.0                  |                 | <1.0                  |                 |
| Angular Transmission Error<br>扭轉傳輸中角度偏移量                     | ATE<br>(arc.sec)            | 80                    |                 | 40                    |                 | 40                    |                 |
| Backlash<br>背隙                                               | Standard Backlash<br>標準背隙   | (arc.min)             | <3.0            | <3.0                  | <3.0            | <3.0                  |                 |
|                                                              | Precision Backlash<br>精密背隙  |                       | <2.0            | <1.0                  | <1.0            | <1.0                  |                 |
| Maximum Tilting Moment<br>最大傾斜力矩                             | Nm<br>kgf-m                 | 392<br>(40)           |                 | 1764<br>(180)         |                 | 3332<br>(340)         |                 |
| Rated Radial Force<br>額定徑向力                                  | Nm                          | 196                   |                 | 882                   |                 | 1666                  |                 |
| Max. Axial Force<br>最大軸向推力                                   | N                           | 1470                  |                 | 3920                  |                 | 5194                  |                 |
| Input Inertia<br>Kg-m <sup>2</sup><br>(I=GD <sup>2</sup> /4) |                             | 1.42×10 <sup>-6</sup> |                 | 0.37×10 <sup>-5</sup> |                 | 1.12×10 <sup>-5</sup> |                 |
|                                                              |                             | 1.20×10 <sup>-6</sup> |                 | 0.29×10 <sup>-5</sup> |                 | 1.02×10 <sup>-5</sup> |                 |
|                                                              |                             | 0.9×10 <sup>-6</sup>  |                 | 0.24×10 <sup>-5</sup> |                 | 0.8×10 <sup>-5</sup>  |                 |
|                                                              |                             | —                     |                 | —                     |                 | 0.7×10 <sup>-5</sup>  |                 |
|                                                              |                             | —                     |                 | —                     |                 | —                     |                 |
| Weight<br>重量                                                 | KG                          | 5.5                   |                 | 12                    |                 | 18.5                  |                 |

PS:需要上述速比之外的減速比時，請洽詢本公司，電機轉速超出額定輸入轉速時，運轉噪音將會提高，請注意減速機容許負載使用表面溫度需低於70°C。

Please contact us for other ratio selections. Please be noted that the noise will be increased when the input speed (RPM:revolution per minute) of motor is higher than rated input speed; the operating temperature and motor service temperature should be under 70°C.