

Model: HT series



中空軸旋轉平台

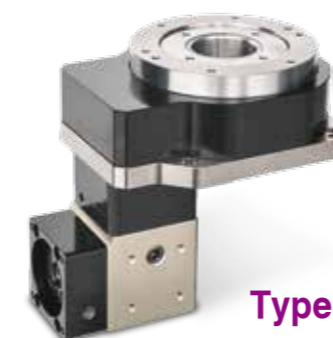
- 具有優異定位精度與重複精度的中空旋轉平台，可搭配使用伺服馬達或步進馬達，展現獨特的性能可靠度。
- With outstanding positioning accuracy and repeatability, the Hollow Rotating Table is available to use servo motor or stepping motor drive and exhibits exceptional dependability of performance.

特性 Features

- 工作物可直接鎖固。
- 旋轉盤面可直接鎖固工作物，提升工件裝載之方便性。
- 配線方便。
- 此旋轉平台為中空式設計，無論是配線或配管均方便。
- 高精度。
- 定位精度小於一分。
- 重複精度可達±5秒。
- 運轉動作平穩。
- 盤面轉動平穩、順暢，且定位快速。
- 適用各種馬達。
- 中空旋轉平台可採用各種廠牌之伺服馬達或步進馬達驅動。
- Direct Mounting of Workpiece
- The rotating table allows for direct mounting of workpiece for added convenience in workpiece loading.
- Convenient Wiring
- The rotating table is a hollow structure design, making it convenient for electric wiring or piping work.
- High Accuracy
- Positioning accuracy is less than 1 min.
- Repeatability may reach ±5 sec.
- Stable Rotating Motion
- The table rotation is stable and smooth as well as fast in positioning.
- Suitable for Various Motors
- The rotating table can be driven by various brands of servo motors or stepping motors.

HOLLOW ROTATING TABLE

應用範例 Application Examples



Type Stepping Motor



AC Servo Motor

型號識別 Model Identification

HT 60 R - 10 - ST

1 2 3 4 5

| | | |
|-----------|-----------------------|--|
| 1. 類別 | Type | 中空軸旋轉平台 Hollow Rotating Table |
| 2. 規格 | Specifications | 60 : 60 type 100 : 100 type 130 : 130 type 200 : 200 type 275 : 275 type |
| 3. 馬達連接形式 | Motor connection type | 無 : 本體 (No: body) R : 直角減速機(選配) (Opt. R : Right angle reducer) |
| 4. 減速比 | Speed reduction ratio | 直結式(Direct drive) : 1:5 直角減速機(Right angle reducer) : 1:15, 1:20, 1:30 |
| 5. 馬達類型 | Motor type | ST : 步進馬達 SV : 交流伺服馬達 SVT : 伺服步進馬達 ST : Stepping motor SV : AC servo motor SVT : Servo stepping motor |

| Model | HT-60 | | HT-100 | | HT-130 | | HT-200 | | HT-275 | |
|--|--|---|---|--|---|--|--|---|--|---|
| | 42型步進馬達 42 Type Stepping Motor | 100W AC伺服馬達 100W AC Servo Motor | 60型步進馬達 60 Type Stepping Motor | 200~400W AC伺服馬達 200~400W AC Servo Motor | 60型步進馬達 60 Type Stepping Motor | 200~400W AC伺服馬達 200~400W AC Servo Motor | 85型步進馬達 85 Type Stepping Motor | 750W AC伺服馬達 750W AC Servo Motor | 85型步進馬達 85 Type Stepping Motor | 750W AC伺服馬達 750W AC Servo Motor |
| 旋轉平台軸承 Bearings of rotating table | 深溝滾珠軸承+止推滾珠軸承 Deep groove ball bearing + Thrust ball bearing | | 圓錐滾子軸承 Taper roller bearing | | 圓錐滾子軸承 Taper roller bearing | | 圓錐滾子軸承 Taper roller bearing | | 圓錐滾子軸承 Taper roller bearing | |
| 容許轉矩 Permissible torque | 3.5 N.m | | 20 N.m | | 20 N.m | | 65 N.m | | 65 N.m | |
| 慣性慣量 Moment of inertia | 2330 x 10 ⁻⁷ kg.m ² | | 3898 x 10 ⁻⁶ kg.m ² | | 9216 x 10 ⁻⁶ kg.m ² | | 85792 x 10 ⁻⁶ kg.m ² | | 111279 x 10 ⁻⁶ kg.m ² | |
| 允許轉速 Permissible speed | 300 rpm (盤面 Disk) | 200 rpm (盤面 Disk) | 200 rpm (盤面 Disk) | | 200 rpm (盤面 Disk) | | 200 rpm (盤面 Disk) | | 200 rpm (盤面 Disk) | |
| 解析度 P/R Resolution P/R | 半步進設定~微步進設定 Semi-step setting~ Micro-step setting 5,000 ~ 600,000 | 依伺服馬達規格 Dep. on servo motor specif. | 半步進設定~微步進設定 Semi-step setting~ Micro-step setting 8,000 ~ 1500,000 | 依伺服馬達規格 Dep. on servo motor specif. | 半步進設定~微步進設定 Semi-step setting~ Micro-step setting 8,000 ~ 1500,000 | 依伺服馬達規格 Dep. on servo motor specif. | 半步進設定~微步進設定 Semi-step setting~ Micro-step setting 10,000 ~ 1800,000 | 依伺服馬達規格 Dep. on servo motor specif. | 半步進設定~微步進設定 Semi-step setting~ Micro-step setting 10,000 ~ 1800,000 | 依伺服馬達規格 Dep. on servo motor specif. |
| 減速比 Speed reduction ratio | 直結式減速機 1:5, 1:20 直角減速機 1:10 Direct-drive reducer 1:5, 1:20 Right angle reducer 1:10 | 直角減速機 1:10 Right angle reducer 1:10 | 直結式減速機 1:8 Direct-drive reducer 1:8 | 直角減速機 1:16 Right angle reducer 1:16 | 直結式減速機 1:10 Direct-drive reducer 1:10 | 直角減速機 1:20 Right angle reducer 1:20 | 直結式減速機 1:10 Direct-drive reducer 1:10 | 直角減速機 1:20, 1:30 Right angle reducer 1:20, 1:30 | 直結式減速機 1:10 Direct-drive reducer 1:10 | 直角減速機 1:20, 1:30 Right angle reducer 1:20, 1:30 |
| 定位精度 Positioning accuracy | ≤ 1 mins | | ≤ 1 mins | | ≤ 1 mins | | ≤ 1 mins | | ≤ 1 mins | |
| 反覆定位精度 Repeatability | ± 10 sec | | ± 5 sec | | ± 5 sec | | ± 5 sec | | ± 5 sec | |
| 容許推力載重 Permissible thrust force | 20 kgf | | 200 kgf | | 250 kgf | | 500 kgf | | 800 kgf | |
| 容許慣性載重 Permissible load of inertia | 5 N.m | 10 N.m | 60 N.m | | 60 N.m | | 200 N.m | | 200 N.m | |
| 旋轉平台平行度 Parallelism of rotating table | ± 5 μm | | ± 2 μm | | ± 2 μm | | ± 2 μm | | ± 2 μm | |
| 旋轉平台同心度 Concentricity of rotating table | ≡0.01 mm | | ≡0.01 mm | | ≡0.01 mm | | ≡0.01 mm | | ≡0.01 mm | |
| 保護等級 Protection class | 40 IP | | 40 IP | | 40 IP | | 40 IP | | 40 IP | |
| 重量 Weight | 2.2 kg | | 3 kg | | 5.5 kg | | 14 kg | | 19 kg | |