

Model: AR series



轉角減速機

- 採用先進六軸精密機械加工，一次裝夾同時加工完成，確保最佳幾何精度。
- 傳動齒輪經精密研磨，運轉低背隙、高精度。
- 精密傳動、寂靜、穩定、順暢。流程：達到精密傳動，低噪音、高剛性等高品質要求。

Right Angle Reducer

- The right angle reducer is precision machined on a b-axis controlled machining center, which allows for one-piece machining in one setup to assure the best geometric accuracy.
- The transmission gears are precision ground, providing low rotating backlash and high accuracy.
- Precise transmission, low noise, maximum stability and smoothness.

RIGHT ANGLE REDUCER

應用範例 Application Examples



I-Type



S-Type

| Model | 減速比 Speed Ratio | | Model | 減速比 Speed Ratio | |
|--------|-----------------|---|---------|-----------------|------------------------------------|
| AR42 I | 12, 15, 30 | 48, 60, 75, 90, 120, 150, 210, 270, 300 | AR90 I | 6, 10, 20, 30 | 40, 50, 60, 80, 100, 140, 180, 200 |
| AR42 S | 12, 15, 30 | 60, 75, 90, 120, 150, 210, 270, 300 | AR90 S | 6, 10, 20, 30 | 40, 50, 60, 80, 100, 140, 180, 200 |
| AR60 I | 6, 10, 20, 30 | 40, 50, 60, 80, 100, 140, 180, 200 | AR120 I | 6, 10, 20, 30 | 40, 50, 60, 80, 100, 140, 180, 200 |
| AR60 S | 6, 10, 20, 30 | 40, 50, 60, 80, 100, 140, 180, 200 | AR120 S | 6, 10, 20, 30 | 40, 50, 60, 80, 100, 140, 180, 200 |

型號識別 Model Identification

AR 42 I - 3

1 2 3 4

| 1. 減速機類別 | Reducer type | 直角減速機 Right Angle Reducer | | | |
|-----------|-----------------------|---------------------------|------------------------------------|------------------------------------|----------------|
| 2. 框號 | Frame No. | 42 : 42 type | 60 : 60 type | 90 : 90 type | 120 : 120 type |
| 3. 馬達連接形式 | Motor connection type | 無 : 本體 No: body | I : 行星減速機 I : Planetary reducer | S : 行星減速機 S : Planetary reducer | |
| 4. 減速比 | Speed reduction ratio | 2 : 1:2 | 3 : 1:3 | | |

特性 Features:

- 本體結構紮實、體積小，有效節省安裝空間。
- 雖然體積小、重量輕。但具有高扭矩輸出及低背隙的優異特性。
- 訂購時請告知馬達法蘭及心軸尺寸。
- The reducer body is compactly constructed with small volume to save considerable installation space.
- Although the reducer is small in volume and light in weight, it is capable of providing high torque output and low backlash.
- When ordering, please advise the sizes of flange and shaft of your motor.

規格表 Specifications

| Model | AR-42 | AR-60 | AR-90 | AR-120 | |
|--------|--------------------------|-------------------------|------------------------|-------------------------|------------------------|
| 額定輸出轉矩 | Continuous output torque | 1.5 kgf.m (15 N.m) | 4.5 kgf.m (45 N.m) | 9 kgf.m (90 N.m) | 12 kgf.m (120 N.m) |
| 破壞力矩值 | Breakdown torque | 4 kgf.m (40 N.m) | 12 kgf.m (120 N.m) | 24 kgf.m (240 N.m) | 32 kgf.m (320 N.m) |
| 許用輸入轉速 | Permissible input speed | 2000 rpm | 2000 rpm | 2000 rpm | 2000 rpm |
| 背隙 | Backlash | 10~3 min-arc | 10~3 min-arc | 10~3 min-arc | 10~3 min-arc |
| 慣性矩 | Moment of inertia | 0.02 kg·cm ² | 0.7 kg·cm ² | 0.25 kg·cm ² | 0.8 kg·cm ² |
| 重量 | Weight | 0.5 kg | 1.2 kg | 3.6 kg | 8.5 kg |