**产品概要**

**輸出額定力矩**
T2N : 9 Nm - 2000 Nm
**减速比:**
單節 :3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 14 / 20
雙節 :15 /20 / 25 / 30 / 35 / 40 / 45 / 50 / 60 / 70 80 /90 / 100 / 120 / 140 / 160 / 180 / 200
\*只有AER050雙節提供15,20減速比
**低背隙**
單節 : ≤10 arcmin
雙節 : ≤14 arcmin
**高效率**
單節 : ≧ 95%
雙節 : ≧ 92%
**容易安裝**
**低噪音**
**結構緊湊**

**产品特点**

|  |
| --- |
|   http://www.apexdyna.com/zh/imgs/prod/AER-feature.gif  |
| AER系列 採用蝸線傘齒輪設計，容許伺服馬達高轉速的輸入，得到最高扭距的輸出，嚙合蝸線經最佳化的運動誤差分析，自設的精密研磨設備，製造出最低的運轉背隙，效率高、壽命長、免保養。 |

**产品规格**

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| * **产品性能**
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| **規格 No.** | 節數 | 減速比1 | **AER050** | **AER070** | **AER090** | **AER120** | **AER155** | **AER205** | **AER235** |
| 額定輸出力矩T2N | Nm | 1 | 3 | 9 | 36 | 90 | 195 | 342 | 588 | 1,140 |
| 4 | 12 | 48 | 120 | 260 | 520 | 1,040 | 1,680 |
| 5 | 15 | 60 | 150 | 325 | 650 | 1,200 | 2,000 |
| 6 | 18 | 55 | 150 | 310 | 600 | 1,100 | 1,900 |
| 7 | 19 | 50 | 140 | 300 | 550 | 1,100 | 1,800 |
| 8 | 17 | 45 | 120 | 260 | 500 | 1,000 | 1,600 |
| 9 | 14 | 40 | 100 | 230 | 450 | 900 | 1,500 |
| 10 | 14 | 60 | 150 | 325 | 650 | 1,200  | 2,000 |
| 14 | - | 42 | 140 | 300 | 550 | 1,100 | 1,800 |
| 20 | - | 40 | 100 | 230 | 450 | 900 | 1,500 |
|  |
| 2 | 15 | 14 | - | - | - | - | - | - |
| 20 | 14 | - | - | - | - | - | - |
| 25 | 15 | 60 | 150 | 325 | 650 | 1,200 | 2,000 |
| 30 | 20 | 55 | 150 | 310 | 600 | 1,100 | 1,900 |
| 35 | 19 | 50 | 140 | 300 | 550 | 1,100 | 1,800 |
| 40 | 17 | 45 | 120 | 260 | 500 | 1,000 | 1,600 |
| 45 | 14 | 40 | 100 | 230 | 450 | 900 | 1,500 |
| 50 | 14 | 60 | 100 | 230 | 650 | 1,200 | 2,000 |
| 60 | 20 | 55 | 150 | 310 | 600 | 1,100 | 1,900 |
| 70 | 19 | 50 | 140 | 300 | 550 | 1,100 | 1,800 |
| 80 | 17 | 45 | 120 | 260 | 500 | 1,000 | 1,600 |
| 90 | 14 | 40 | 100 | 230 | 450 | 900 | 1,500 |
| 100 | 14 | 40 | 100 | 230 | 450 | 900 | 1,500 |
| 120 | - | - | 150 | 310 | 600 | 1,100 | 1,900 |
| 140 | - | - | 140 | 300 | 550 | 1,100 | 1,800 |
| 160 | - | - | 120 | 260 | 550 | 1,000 | 1,600 |
| 180 | - | - | 100 | 230 | 450 | 900 | 1,500 |
| 200 | - | - | 100 | 230 | 450 | 900 | 1,500 |
| 急停扭矩 T2NOT3 | Nm | 1,2 | 3~200 | 3倍額定輸出力矩 |
| 額定輸入轉速 N1N | rpm | 1,2 | 3~200 | 5,000 | 5,000 | 4,000 | 4,000 | 3,000 | 3,000 | 2,000 |
| 最大輸入轉速 N1B | rpm | 1,2 | 3~200 | 10,000 | 10,000 | 8,000 | 8,000 | 6,000 | 6,000 | 4,000 |
| 標準背隙 | arcmin | 1 | 3~20 | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 |
| 2 | 25~200 | ≤ 14 | ≤ 14 | ≤ 14 | ≤ 14 | ≤ 14 | ≤ 14 | ≤ 14 |
| 扭轉剛性  | Nm / arcmin | 1,2 | 3~200 | 3 | 7 | 14 | 25 | 50 | 145 | 225 |
| 最大徑向力 F2rB2 | N | 1,2 | 3~200 | 702 | 1,377 | 2,985 | 6,100 | 8,460 | 13,050 | 8,700 |
| 最大軸向力   | F2a1B2 | N | 1,2 | 3~200 | 350 | 630 | 1,300 | 2,400 | 4,000 | 6,200 | 4,800 |
| F2a2B2 | N | 1,2 | 3~200 | 390 | 765 | 1,625 | 3,350 | 4,700 | 7,250 | 18,000 |
| 使用壽命 | hr | 1,2 | 3~200 | 20,000 \* |
| 效率 http://www.apexdyna.com/zh/imgs/prod/ui.gif | % | 1 | 3~20 | ≧95 % |
| 2 | 25~200 | ≧92 % |
| 重量   | kg | 1 | 3~20 | 1.0 | 2.1 | 5.8 | 11.2 | 22.4 | 46.8 | 78.0 |
| 2 | 25~200 | 1.3 | 2.0 | 4.6 | 11.1 | 21.8 | 43.7 | 81.9 |
| 使用溫度 | ºC | 1,2 | 3~200 | -10ºC~90ºC |
| 潤滑 |   | - | - | 合成潤滑油脂(NYOGEL 792D) |
| 防護等級 |   | 1,2 | 3~200 | IP65  |
| 安裝方向 |   | 1,2 | 3~200 | 任意方向 |
| 噪音值 (n1=3000 rpm,無負載) | dB(A) | 1,2 | 3~200 | ≤ 61 | ≤ 63 | ≤ 65 | ≤ 68 | ≤ 70 | ≤ 72 | ≤ 74 |

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| 1.減速比 ( i=N in / Nout ) | 2. 輸出轉數100rpm 時，作用於輸出軸中心位置。 |
| 3.最大加速力矩 T2B = 60% of T2NOT |
| \*連續運轉降低使用壽命二分之一。(請洽詢本公司) |

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|  http://www.apexdyna.com/zh/imgs/icon1.gif**減速機轉動慣量** |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **規格 No.** | 節數 | 減速比1 | **AER050** | **AER070** | **AER090** | **AER120** | **AER155** | **AER205** | **AER235** |
| 轉動慣量 J（kg‧cm2） | 1 | 3~10 | 0.09 | 0.35 | 2.25 | 6.84 | 23.4 | 68.9 | 135.4 |
| 14 | - | 0.07 | 1.87 | 6.25 | 21.8 | 65.6 | 119.8 |
| 20 | - | 0.07 | 1.87 | 6.25 | 21.8 | 65.6 | 119.8 |
|  |
| 2 | 15 | 0.09 | - | - | - | - | - | - |
| 20 | 0.09 | - | - | - | - | - | - |
| 25~100 | 0.09 | 0.09 | 0.35 | 2.25 | 6.84 | 23.4 | 68.9 |
| 120~200 | - | - | 0.31 | 1.87 | 6.25 | 21.8 | 65.6 |

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**产品尺寸**

**產品尺寸**

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|  http://www.apexdyna.com/zh/imgs/icon1.gif單節 , 減速比 i = 3 ~ 10 |
| http://www.apexdyna.com/zh/imgs/prod/AER-Dimension-s1.gif |

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|   | **AER050** | **AER070** | **AER090** | **AER120** | **AER155** | **AER205** | **AER235** |
|         D1 | 44 | 62 | 80 | 108 | 140 | 184 | 210 |
|         D2 | M4 X 0.7P | M5 X 0.8P | M6 X 1P | M8 X 1.25P | M10 X 1.5P | M12 X 1.75P | M16 X 2P |
|         D3 j6 | 12 | 16 | 22 | 32 | 40 | 55 | 75 |
|         D4 h6 | 35 | 52 | 68 | 90 | 120 | 160 | 180 |
|         D5 | 22 | 22 | 30 | 40 | 75 | 95 | 115 |
|         D6 | M4 X 0.7P | M5 X 0.8P | M8 X 1.25P | M12 X 1.75P | M16 X 2P | M20 X 2.5P | M20 X 2.5P |
|         D7 | 53 | 70 | 104 | 130 | 162 | 205 | 260 |
|         D8 | 50 | 70 | 90 | 120 | 155 | 205 | 235 |
|         L1 | -- | -- | 33.5 | 38 | 50 | -- | 70 |
|         L2 | 24.5 | 36 | 46 | 70 | 97 | 100 | 126 |
|         L3 | 4 | 6.5 | 8.5 | 17.5 | 15 | 15 | 18 |
|         L4 | 1 | 1 | 1 | 1.5 | 3 | 3 | 3 |
|         L5 | 14 | 25 | 32 | 40 | 63 | 70 | 90 |
|         L6 | 2 | 2 | 3 | 5 | 5 | 6 | 7 |
|         L7 | 8 | 10 | 12 | 16 | 20 | 22 | 28 |
|         L8 | 115.5 | 146 | 201 | 252 | 324.5 | 379.5 | 461.5 |
|         L9 | 4.5 | 4.8 | 7.2 | 10 | 12 | 15 | 15 |
|         L10 | 10 | 12.5 | 19 | 28 | 36 | 42 | 42 |
|         C1 3 | 46 | 70 | 100 | 130 | 165 | 215 | 235 |
|         C2 3 | M4 X 0.7P | M5 X 0.8P | M6 X 1P | M8 X 1.25P | M10 X 1.5P | M12 X 1.75P | M12 X 1.75P |
|         C3 3 | ≤11 | ≤14 / ≤16 | ≤19 / ≤24 | ≤32 | ≤38 | ≤48 | ≤55 |
|         C4 3 | 30 | 34 | 40 | 50 | 60 | 85 | 116 |
|         C5 3  | 30 | 50 | 80 | 110 | 130 | 180 | 200 |
|         C6 3 | 3.5 | 8 | 4 | 5 | 6 | 6 | 6 |
|         C7 3 | 48 | 60 | 90 | 115 | 142 | 190 | 220 |
|         C8 3 | 19.5 | 19 | 17 | 19.5 | 22.5 | 29 | 63 |
|         C9 3 | 100.5 | 116.5 | 159.5 | 199 | 245.5 | 316 | 398.5 |
|         C10 3 | 13.25 | 13.5 | 10.75 | 13 | 15 | 20.75 | 53.5 |
|         C11 3 | 74 | 81.5 | 107.5 | 134 | 164.5 | 213.5 | 268.5 |
|         B1 h9 | 4 | 5 | 6 | 10 | 12 | 16 | 20 |
|         H1 | 14 | 18 | 24.5 | 35 | 43 | 59 | 79.5 |

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| 3.C1~C10 是公制標準馬達連接板之尺寸，請至 " 減速機選用 " 找出正確之尺寸。 \* AER070M1 提供 C3≤16 可選。\* AER090M1 提供 C3≤24 可選。 |

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| http://www.apexdyna.com/zh/imgs/icon1.gif雙節 , 減速比 i = 15 ~ 100 |
| http://www.apexdyna.com/zh/imgs/prod/AER-Dimension-s2.gif |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|   | **AER050** | **AER070** | **AER090** | **AER120** | **AER155** | **AER205** | **AER235** |
|         D1 | 44 | 62 | 80 | 108 | 140 | 184 | 210 |
|         D2 | M4 X 0.7P | M5 X 0.8P | M6 X 1P | M8 X 1.25P | M10 X 1.5P | M12 X 1.75P | M16 X 2P |
|         D3 j6 | 12 | 16 | 22 | 32 | 40 | 55 | 75 |
|         D4 h6 | 35 | 52 | 68 | 90 | 120 | 160 | 180 |
|         D5 | 22 | 22 | 30 | 40 | 75 | 95 | 115 |
|         D6 | M4 X 0.7P | M5 X 0.8P | M8 X 1.25P | M12 X 1.75P | M16 X 2P | M20 X 2.5P | M20 X 2.5P |
|         D7 | 53 | 70 | 104 | 130 | 162 | 205 | 260 |
|         D8 | 50 | 70 | 90 | 120 | 155 | 205 | 235 |
|         L1 | -- | -- | 33.5 | 38 | 50 | -- | 70 |
|         L2 | 24.5 | 36 | 46 | 70 | 97 | 100 | 126 |
|         L3 | 4 | 6.5 | 8.5 | 17.5 | 15 | 15 | 18 |
|         L4 | 1 | 1 | 1 | 1.5 | 3 | 3 | 3 |
|         L5 | 14 | 25 | 32 | 40 | 63 | 70 | 90 |
|         L6 | 2 | 2 | 3 | 5 | 5 | 6 | 7 |
|         L7 | 8 | 10 | 12 | 16 | 20 | 22 | 28 |
|         L8 | 142.5 | 167.5 | 207.5 | 283 | 358 | 422.5 | 506.5 |
|         L9 | 4.5 | 4.8 | 7.2 | 10 | 12 | 15 | 15 |
|         L10 | 10 | 12.5 | 19 | 28 | 36 | 42 | 42 |
|         C1 4 | 46 | 46 | 70 | 100 | 130 | 165 | 215 |
|         C2 4 | M4 X 0.7P | M4 X 0.7P | M5 X 0.8P | M6 X 1P | M8 X 1.25P | M10 X 1.5P | M12 X 1.75P |
|         C3 4 | ≤11 | ≤11 / ≤12 | ≤14 /≤15.875 /≤16 | ≤19 / ≤24 | ≤32 | ≤38 | ≤48 |
|         C4 4 | 30 | 30 | 34 | 40 | 50 | 60 | 85 |
|         C5 4  | 30 | 30 | 50 | 80 | 110 | 130 | 180 |
|         C6 4 | 3.5 | 3.5 | 8 | 4 | 5 | 6 | 6 |
|         C7 4 | 48 | 48 | 60 | 90 | 115 | 142 | 190 |
|         C8 4 | 19.5 | 19.5 | 19 | 17 | 19.5 | 22.5 | 29 |
|         C9 4 | 100.5 | 109 | 133.5 | 172.5 | 215 | 267 | 343.5 |
|         C10 4 | 13.25 | 13.25 | 13.5 | 10.75 | 13 | 15 | 20.75 |
|         C11 4 | 74 | 74 | 81.5 | 107.5 | 134 | 164.5 | 213.5 |
|         B1 h9 | 4 | 5 | 6 | 10 | 12 | 16 | 20 |
|         H1 | 14 | 18 | 24.5 | 35 | 43 | 59 | 79.5 |

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| 4.C1~C10 是公制標準馬達連接板之尺寸，請至 " 減速機選用 " 找出正確之尺寸。 \* AER070M1 提供 C3 ≤12 可選。 \* AER090M1 提供 C3 ≤16 可選。\* AER090M2 提供 C3 ≤15.875 可選。 \* AER120M1 提供 C3 ≤24 可選。 |
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