**产品概要**

**輸出額定力矩**
T2N :12 Nm - 3,200 Nm
**減速比:**
單節 :1 / 1.5 / 2 / 3 / 4 / 5
雙節 :7 / 10 / 15 / 20 / 25 / 35 / 50
三節 :75 / 100 / 125 / 150 / 200 / 250 / 350 / 500
**低背隙**
單節 :≦6 arcmin
雙節 :≦8 arcmin
三節 :≦10 arcmin
**高效率**
單節 : ≧ 98%
雙節 : ≧ 94%
三節 : ≧ 94%
**容易安裝**
**低噪音**
**結構緊湊**
**材質: 染黑鑄鐵**

**产品规格**

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| http://www.apexdyna.com/zh/imgs/icon1.gif**減速機性能資料** |
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| **規格** | 節數 | 減速比1 | **ATB065FH** | **ATB075FH** | **ATB090FH** | **ATB110FH** | **ATB140FH** | **ATB170FH** | **ATB210FH** | **ATB240FH** | **ATB280FH** |
| 額定輸出力矩 T2N | Nm | 1 | 1 | 25 | 45 | 78 | 150 | 360 | 585 | 1,300 | 2,150 | 3,200 |
| 1.5 | 25 | 45 | 78 | 150 | 360 | 585 | 1,300 | 2,150 | 3,200 |
| 2 | 24 | 42 | 68 | 150 | 330 | 544 | 1,220 | 2,010 | 3,050 |
| 3 | 18 | 33 | 54 | 120 | 270 | 450 | 1,020 | 1,650 | 2,850 |
| 4 | 13 | 28 | 48 | 100 | 224 | 376 | 860 | 1,410 | 2,300 |
| 5 | 12 | 25 | 40 | 85 | 196 | 320 | 740 | 1,210 | 2,000 |
| 2 | 7 | 12 | 12 | 33 | 91 | 91 | 91 | 195 | 358 | 358 |
| 10 | 24 | 28 | 68 | 150 | 208 | 208 | 430 | 846 | 846 |
| 15 | 18 | 33 | 54 | 120 | 270 | 312 | 645 | 1,269 | 1,269 |
| 20 | 13 | 28 | 48 | 100 | 224 | 376 | 860 | 1,410 | 1,629 |
| 25 | 12 | 25 | 40 | 85 | 196 | 320 | 740 | 1,210 | 2,000 |
| 35 | 12 | 25 | 40 | 85 | 196 | 320 | 740 | 1,210 | 1,790 |
| 50 | 12 | 25 | 40 | 85 | 196 | 320 | 740 | 1,210 | 1,465 |
| 3 | 75 | - | - | - | 120 | 210 | 312 | 585 | 1,269 | 1,269 |
| 100 | - | - | - | 100 | 224 | 376 | 780 | 1,410 | 1,692 |
| 125 | - | - | - | 85 | 196 | 320 | 740 | 1,210 | 2,000 |
| 150 | - | - | - | 120 | 135 | 312 | 390 | 975 | 975 |
| 200 | - | - | - | 100 | 180 | 376 | 520 | 1,300 | 1,300 |
| 250 | - | - | - | 85 | 196 | 320 | 650 | 1,210 | 1,625 |
| 350 | - | - | - | 85 | 196 | 320 | 740 | 1,210 | 1,790 |
| 500 | - | - | - | 85 | 196 | 320 | 740 | 1,210 | 1,465 |
| 最大加速力矩 T2B | Nm | 1,2,3 | 1~500 | 1.5倍額定輸出力矩 |
| 最大加速輸入轉速 n1B | rpm | 1 | 1~5 | 7,500 | 6,500 | 5,500 | 4,500 | 3,500 | 3,000 | 2,200 | 2,000 | 1,700 |
| 2 | 7~50 | 8,000 | 8,000 | 6,000 | 6,000 | 6,000 | 6,000 | 4,800 | 3,600 | 3,600 |
| 3 | 75~500 | - | - | - | 8,000 | 8,000 | 6,000 | 6,000 | 6,000 | 6,000 |
| 標準背隙\* | arcmin | 1 | 1~5 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 |
| 2 | 7~50 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 |
| 3 | 75~500 | - | - | - | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 | ≤ 10 |
| 最大徑向力 F2rB2輸出 d2 | N | 1,2,3 | 1~500 | 900 | 1,100 | 1,700 | 2,700 | 4,800 | 6,600 | 11,500 | 16,000 | 18,000 |
| 最大軸向力 F2aB2輸出 d2 | N | 1,2,3 | 1~500 | 450 | 550 | 850 | 1,350 | 2,400 | 3,300 | 5,750 | 8,500 | 9,000 |
| 使用壽命 | hr | 1 | 1~5 | 20,000\* |
| 效率 http://www.apexdyna.com/zh/imgs/prod/ui.gif | % | 1 | 1~5 | ≧ 98 % |
| 2,3 | 7~500 | ≧ 94 % |
| 重量   | kg | 1 | 1~5 | 2.6 | 4.1 | 6.7 | 11.4 | 18.9 | 32.9 | 63.2 | 92.5 | 146.0 |
| 2 | 7~50 | 3.1 | 4.6 | 7.7 | 13.6 | 22.4 | 35.3 | 67.9 | 103.7 | 158.7 |
| 3 | 75~500 | - | - | - | 13.3 | 21.9 | 35.6 | 67.2 | 101.5 | 156.5 |
| 使用溫度 | ºC | 1,2,3 | 1~500 | -10ºC~90ºC |
| 潤滑 |   | - | - | Synthetic Iubrication, ISO VG 150 |
| 噪音值 (n1=1500 rpm,無負載) | dB(A) | 1,2,3 | 1~500 | ≤71 | ≤72 | ≤76 | ≤77 | ≤78 | ≤79 | ≤81 | ≤83 | ≤84 |

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| 1.減速比 ( i =Nin/Nout ) | 3.轉速在100rpm時，作用於輸入軸中心位置。 |
| \*連續運轉，使用壽命為10,000 hrs. |
| \*背隙值為在2%額定力矩 T2N的扭力下所測得 |
| \*AT系列之低摩擦型號, 其輸入/輸出端禁止朝下安裝, 以防止潤滑油洩漏. |

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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** | 節數  | 減速比1 | **ATB065FH** | **ATB075FH** | **ATB090FH** | **ATB110FH** | **ATB140FH** | **ATB170FH** | **ATB210FH** | **ATB240FH** | **ATB280FH** |
| 轉動慣量J1（kg·cm2） | 1 | 1 | 0.51 | 1.30 | 3.14 | 7.62 | 23.54 | 59.09 | 195.96 | 365.38 | 787.63 |
| 1.5 | 0.46 | 1.15 | 2.80 | 6.65 | 19.34 | 49.38 | 156.02 | 279.62 | 584.28 |
| 2 | 0.44 | 1.10 | 2.68 | 6.23 | 17.72 | 45.44 | 140.80 | 245.78 | 500.26 |
| 3 | 0.43 | 1.09 | 2.64 | 6.08 | 17.16 | 44.11 | 135.51 | 233.75 | 471.56 |
| 4 | 0.43 | 1.08 | 2.63 | 6.05 | 17.03 | 43.79 | 134.14 | 230.77 | 464.76 |
| 5 | 0.43 | 1.08 | 2.63 | 6.04 | 16.99 | 43.69 | 133.71 | 229.71 | 462.08 |
| 2 | 7 | 0.15 | 0.15 | 0.50 | 2.79 | 2.79 | 2.79 | 9.91 | 29.26 | 29.26 |
| 10 | 0.15 | 0.15 | 0.50 | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 15 | 0.15 | 0.15 | 0.50 | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 20 | 0.15 | 0.15 | 0.50 | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 25 | 0.15 | 0.15 | 0.50 | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 35 | 0.15 | 0.15 | 0.50 | 2.79 | 2.79 | 2.79 | 9.91 | 29.26 | 29.26 |
| 50 | 0.15 | 0.15 | 0.50 | 2.79 | 2.79 | 2.79 | 9.89 | 29.20 | 29.20 |
| 3 | 75 | - | - | - | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 100 | - | - | - | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 125 | - | - | - | 2.80 | 2.80 | 2.80 | 9.96 | 29.43 | 29.43 |
| 150 | - | - | - | 2.79 | 2.79 | 2.79 | 9.89 | 29.20 | 29.20 |
| 200 | - | - | - | 2.79 | 2.79 | 2.79 | 9.89 | 29.20 | 29.20 |
| 250 | - | - | - | 2.79 | 2.79 | 2.79 | 9.89 | 29.20 | 29.20 |
| 350 | - | - | - | 2.79 | 2.79 | 2.79 | 9.89 | 29.20 | 29.20 |
| 500 | - | - | - | 2.79 | 2.79 | 2.79 | 9.89 | 29.20 | 29.20 |

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**产品尺寸**

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**產品尺寸**

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|   http://www.apexdyna.com/zh/imgs/icon1.gif單節( 減速比 i = 1 ~ 5 ) |
| http://www.apexdyna.com/zh/imgs/prod/AT-FH-Dimension-s1.gif |

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|  | **ATB065FH** | **ATB075FH** | **ATB090FH** | **ATB110FH** | **ATB140FH** | **ATB170FH** | **ATB210FH** | **ATB240FH** | **ATB280FH** |
| D1 | M4 | M6 | M6 | M8 | M10 | M12 | M16 | M16 | M16 |
| D2 H7 | 13 | 14 | 18 | 22 | 32 | 40 | 50 | 55 | 60 |
| D4 h7 | 63 | 73 | 88 | 108 | 135 | 165 | 205 | 235 | 275 |
| D5 | 31 | 35 | 43 | 53 | 68 | 83 | 104 | 124 | 144 |
| D7 | 21 | 22 | 28 | 33 | 47 | 55 | 75 | 85 | 110 |
| D12 | 62 | 72 | 86 | 106 | 104 | 128 | 160 | 180 | 200 |
| D14 h7 | 63 | 73 | 88 | 108 | 135 | 165 | 205 | 235 | 275 |
| D15 | 62.9 | 72.9 | 87 | 107 | 105 | 127 | 158 | 178 | 198 |
| L1 | 65 | 75 | 90 | 110 | 140 | 170 | 210 | 240 | 280 |
| L3 | 13 | 14.5 | 15 | 15 | 15 | 15 | 20 | 25 | 25 |
| L4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| L7 | 47.5 | 54 | 62 | 72 | 87 | 102 | 127 | 147 | 167 |
| L11 | 27 | 30 | 36 | 44 | 55 | 67 | 85 | 95 | 110 |
| L13 | 13 | 15 | 15 | 15 | 15 | 15 | 20 | 25 | 25 |
| L21 | 49 | 60.5 | 63 | 69.5 | 85.5 | 95 | 130 | 144.5 | 135 |
| L22 | 81.5 | 98 | 108 | 124.5 | 155.5 | 180 | 235 | 264.5 | 275 |
| L23 | 40 | 47 | 52 | 53 | 70 | 80 | 95 | 115 | 115 |
| L24 | 30 | 32 | 35 | 35 | 50 | 55 | 65 | 80 | 80 |
| C1 9 | 46 | 70 | 100 | 100 | 130 | 165 | 215 | 215 | 235 |
| C2 9 | M4 | M5 | M6 | M6 | M8 | M10 | M12 | M12 | M12 |
| C3 9 | ≤11 / ≤12 | ≤14 / ≤15.875 / ≤16 | ≤19 | ≤24 | ≤32 | ≤38 | ≤42 | ≤48 | ≤55 |
| C4 9 | 30 | 34 | 40 | 40 | 50 | 60 | 85 | 85 | 116 |
| C5 9 | 30 | 50 | 80 | 80 | 110 | 130 | 180 | 180 | 200 |
| C6 9 | 3.5 | 8 | 4 | 4 | 5 | 6 | 6 | 6 | 6 |
| C7 9 | 42 | 60 | 90 | 90 | 115 | 142 | 190 | 190 | 220 |
| C8 9 | 19.5 | 19 | 17 | 17 | 19.5 | 22.5 | 29 | 29 | 63 |
| C9 9 | 133.5 | 154.5 | 170 | 196.5 | 245 | 287.5 | 369 | 413.5 | 478 |
| C10 9 | 13.25 | 13.5 | 10.75 | 10.75 | 13 | 15 | 20.75 | 20.75 | 53.5 |
| B3 p9 | 5 | 5 | 6 | 6 | 10 | 12 | 14 | 16 | 18 |
| H3 | 15.3 | 16.3 | 20.8 | 24.8 | 35.5 | 43.3 | 53.8 | 59.3 | 64.4 |

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| 9. 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。  |
| \*ATB065FHM1 offers C3 <= 12 option. |
| \*ATB075FHM1 offers C3 <= 16 option. |
| \*ATB075FHM2 offers C3 <= 15.875 option. |

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| http://www.apexdyna.com/zh/imgs/icon1.gif2-stage( 減速比 i = 7 ~ 50 ) |
| http://www.apexdyna.com/zh/imgs/prod/AT-FH-Dimension-s2.gif |

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|  | **ATB065FH** | **ATB075FH** | **ATB090FH** | **ATB110FH** | **ATB140FH** | **ATB170FH** | **ATB210FH** | **ATB240FH** | **ATB280FH** |
| D1 | M4 | M6 | M6 | M8 | M10 | M12 | M16 | M16 | M16 |
| D2 H7 | 13 | 14 | 18 | 22 | 32 | 40 | 50 | 55 | 60 |
| D4 h7 | 63 | 73 | 88 | 108 | 135 | 165 | 205 | 235 | 275 |
| D5 | 31 | 35 | 43 | 53 | 68 | 83 | 104 | 124 | 144 |
| D7 | 21 | 22 | 28 | 33 | 47 | 55 | 75 | 85 | 110 |
| D12 | 62 | 72 | 86 | 106 | 104 | 128 | 160 | 180 | 200 |
| D14 h7 | 63 | 73 | 88 | 108 | 135 | 165 | 205 | 235 | 275 |
| D15 | 62.9 | 72.9 | 87 | 107 | 106 | 127 | 158 | 178 | 198 |
| L1 | 65 | 75 | 90 | 110 | 140 | 170 | 210 | 240 | 280 |
| L3 | 13 | 14.5 | 15 | 15 | 15 | 15 | 20 | 25 | 25 |
| L4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| L7 | 47.5 | 54 | 62 | 72 | 87 | 102 | 127 | 147 | 167 |
| L11 | 27 | 30 | 36 | 44 | 55 | 67 | 85 | 95 | 110 |
| L13 | 13 | 15 | 15 | 15 | 15 | 15 | 20 | 25 | 25 |
| L21 | 75 | 84.5 | 99 | 122 | 144.5 | 157.5 | 206.5 | 239 | 248 |
| L22 | 107.5 | 122 | 144 | 177 | 214.5 | 242.5 | 311.5 | 359 | 388 |
| L23 | 40 | 47 | 52 | 53 | 70 | 80 | 95 | 115 | 115 |
| L24 | 30 | 32 | 35 | 35 | 50 | 55 | 65 | 80 | 80 |
| C1 10 | 46 | 46 | 70 | 100 | 100 | 100 | 130 | 165 | 165 |
| C2 10 | M4 | M4 | M5 | M6 | M6 | M6 | M8 | M10 | M10 |
| C3 10 | ≤12 | ≤12 | ≤16 | ≤24 | ≤24 | ≤24 | ≤32 | ≤38 | ≤38 |
| C4 10 | 30 | 30 | 34 | 40 | 40 | 40 | 50 | 60 | 60 |
| C5 10 | 30 | 30 | 50 | 80 | 80 | 80 | 110 | 130 | 130 |
| C6 10 | 3.5 | 3.5 | 8 | 4 | 4 | 4 | 5 | 6 | 6 |
| C7 10 | 42 | 42 | 60 | 92 | 92 | 92 | 115 | 142 | 142 |
| C8 10 | 21.5 | 21.5 | 21.5 | 20 | 20 | 20 | 24 | 31 | 31 |
| C9 10 | 161.5 | 181 | 210.5 | 252 | 304.5 | 347.5 | 440.5 | 510 | 559 |
| C10 10 | 14.5 | 14.5 | 15.5 | 13 | 13 | 13 | 16 | 21 | 21 |
| B3 P9 | 5 | 5 | 6 | 6 | 10 | 12 | 14 | 16 | 18 |
| H3 | 15.3 | 16.3 | 20.8 | 24.8 | 35.3 | 43.3 | 53.8 | 59.3 | 64.4 |

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| 10. 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。  |

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| http://www.apexdyna.com/zh/imgs/icon1.gif3-stage( 減速比 i = 75 ~ 500 ) |
| http://www.apexdyna.com/zh/imgs/prod/AT-FH-Dimension-s3.gif |

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|  | **ATB110FH** | **ATB140FH** | **ATB170FH** | **ATB210FH** | **ATB240FH** | **ATB280FH** |
| D1 | M8 | M10 | M12 | M16 | M16 | M16 |
| D2 H7 | 22 | 32 | 40 | 50 | 55 | 60 |
| D4 h7 | 108 | 135 | 165 | 205 | 235 | 275 |
| D5 | 53 | 68 | 83 | 104 | 124 | 144 |
| D7 | 33 | 47 | 55 | 75 | 85 | 110 |
| D12 | 106 | 104 | 128 | 160 | 180 | 200 |
| D14 h7 | 108 | 135 | 165 | 205 | 235 | 275 |
| D15 | 107 | 106 | 127 | 158 | 178 | 198 |
| L1 | 110 | 140 | 170 | 210 | 240 | 280 |
| L3 | 15 | 15 | 15 | 20 | 25 | 25 |
| L4 | 2 | 2 | 2 | 2 | 2 | 2 |
| L7 | 72 | 87 | 102 | 127 | 147 | 167 |
| L11 | 44 | 55 | 67 | 85 | 95 | 110 |
| L13 | 15 | 15 | 15 | 20 | 25 | 25 |
| L21 | 136.5 | 159.5 | 183.5 | 226 | 269 | 278 |
| L22 | 191.5 | 229.5 | 268.5 | 331 | 389 | 418 |
| L23 | 53 | 70 | 80 | 95 | 115 | 115 |
| L24 | 35 | 50 | 55 | 65 | 80 | 80 |
| C1 11 | 46 | 46 | 70 | 70 | 100 | 100 |
| C2 11 | M4 | M4 | M5 | M5 | M6 | M6 |
| C3 11 | ≤12 | ≤12 | ≤16 | ≤16 | ≤24 | ≤24 |
| C4 11 | 30 | 30 | 34 | 34 | 40 | 40 |
| C5 11 | 30 | 30 | 50 | 50 | 80 | 80 |
| C6 11 | 3.5 | 3.5 | 8 | 8 | 4 | 4 |
| C7 11 | 42 | 42 | 60 | 60 | 92 | 92 |
| C8 11 | 21.5 | 21.5 | 21.5 | 21.5 | 20 | 20 |
| C9 11 | 268 | 321 | 375 | 457.5 | 529 | 578 |
| C10 11 | 14.5 | 14.5 | 15.5 | 15.5 | 13 | 13 |
| B3 p9 | 6 | 10 | 12 | 14 | 16 | 18 |
| H3 | 24.8 | 35.3 | 43.3 | 53.8 | 59.3 | 64.4 |

 |

  |
| 11. 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。  |