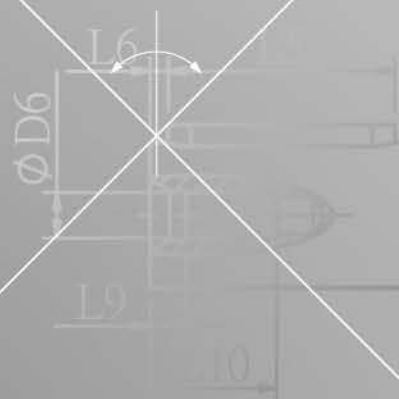
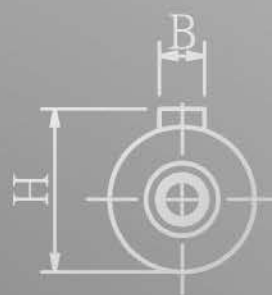
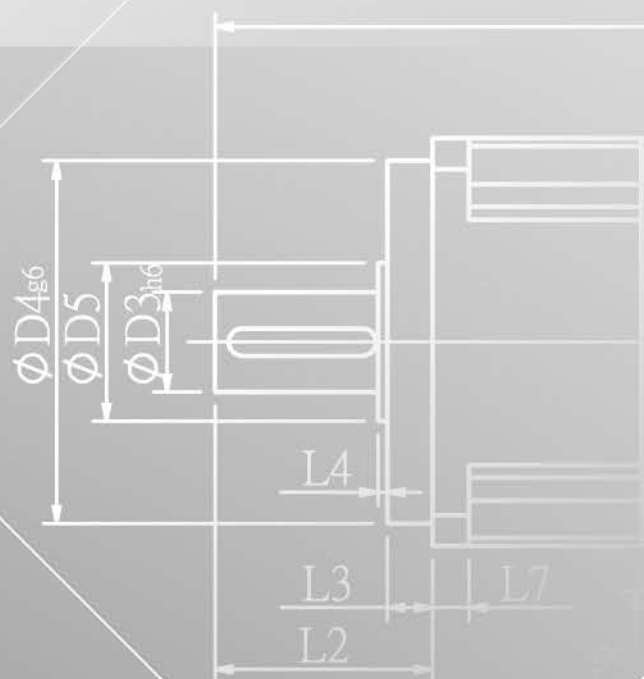
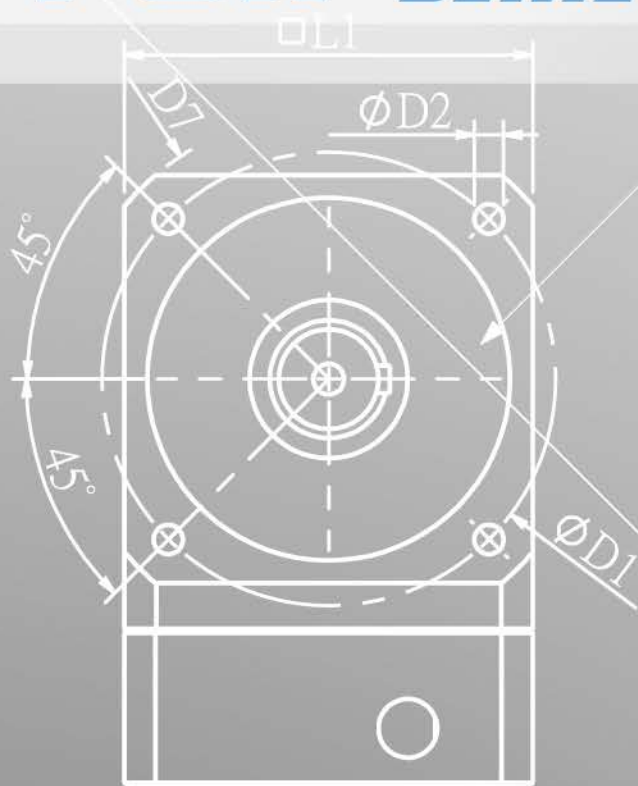
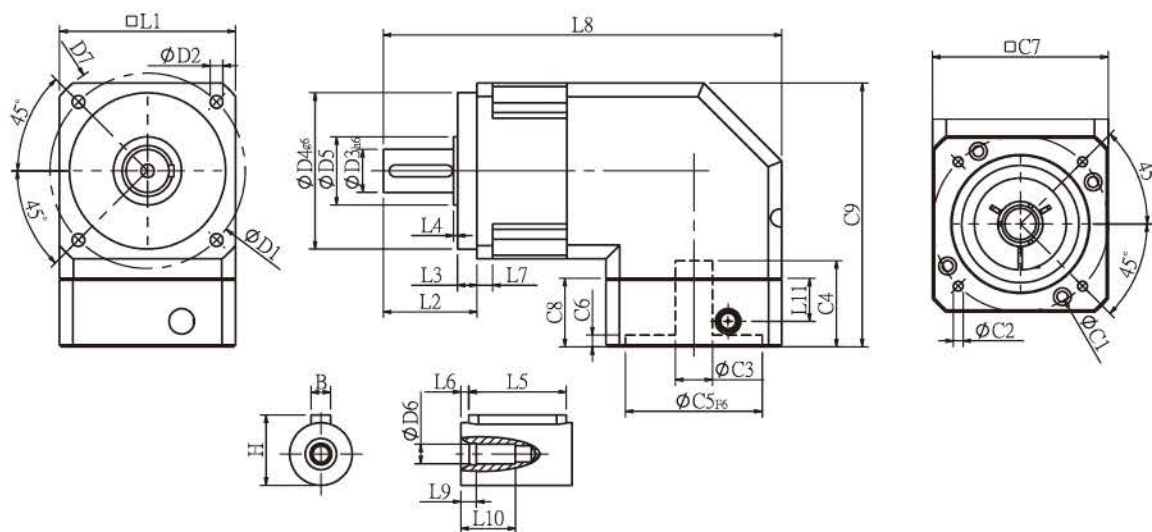


PGR SERIES



PGR Single Stage Dimensions PGR單段外型尺寸圖



Specifications 規格

Unit:mm

| 尺寸 Dimensions | PGR42 | PGR60 | PGR90 | PGR115 | PGR142 | PGR180 | PGR220 |
|--------------------|---------|---------|----------|-----------|----------|--------|--------|
| D1 | 50 | 70 | 100 | 130 | 165 | - | - |
| D2 | 3.4 | 5.5 | 6.5 | 8.5 | 10.5 | - | - |
| D3 h6 | 13 | 16 | 22 | 32 | 40 | - | - |
| D4 g6 | 35 | 50 | 80 | 110 | 130 | - | - |
| D5 | 15 | 25 | 35 | 45 | 50 | - | - |
| D6 | M4x0.7P | M5x0.8P | M8x1.25P | M12x1.75P | M16x2.0P | - | - |
| D7 | 56 | 80 | 118 | 148 | 186 | - | - |
| L1 | 42.6 | 60 | 90 | 115 | 142 | - | - |
| L2 | 26 | 37 | 48 | 62 | 93 | - | - |
| L3 | 5.5 | 7 | 10 | 8 | 8 | - | - |
| L4 | 1.5 | 1.5 | 1.5 | 3 | 6 | - | - |
| L5 | 15 | 25 | 32 | 40 | 60 | - | - |
| L6 | 2 | 2 | 3 | 5 | 5 | - | - |
| L7 | 4 | 6 | 8 | 12 | 18 | - | - |
| L8 | 103.6 | 148.7 | 204 | 244.5 | 330 | - | - |
| L9 | 4 | 4 | 4.5 | 6 | 6 | - | - |
| L10 | 14 | 16.5 | 20.5 | 30 | 38 | - | - |
| L11 | 13.5 | 21.5 | 22 | 32 | 44.7 | - | - |
| C1 ² | 46 | 70 | 90 | 115 | 145 | - | - |
| C2 ² | M4x0.7P | M5x0.8P | M6x1.0P | M8x1.25P | M8x1.25P | - | - |
| C3 ² | ≤8 | ≤14 | ≤19/≤24 | ≤24/≤32 | ≤35 | - | - |
| C4 ² | 29 | 34 | 44 | 53 | 75 | - | - |
| C5 ² F6 | 30 | 50 | 70 | 95 | 110 | - | - |
| C6 ² | 6 | 5 | 5 | 6 | 9 | - | - |
| C7 ² | 42.6 | 60 | 90 | 115 | 140 | - | - |
| C8 ² | 25 | 33 | 35 | 48 | 65 | - | - |
| C9 ² | 70.8 | 107.8 | 135 | 174.5 | 207 | - | - |
| B | 5 | 5 | 6 | 10 | 12 | - | - |
| H | 15 | 18 | 24.5 | 35 | 43 | - | - |

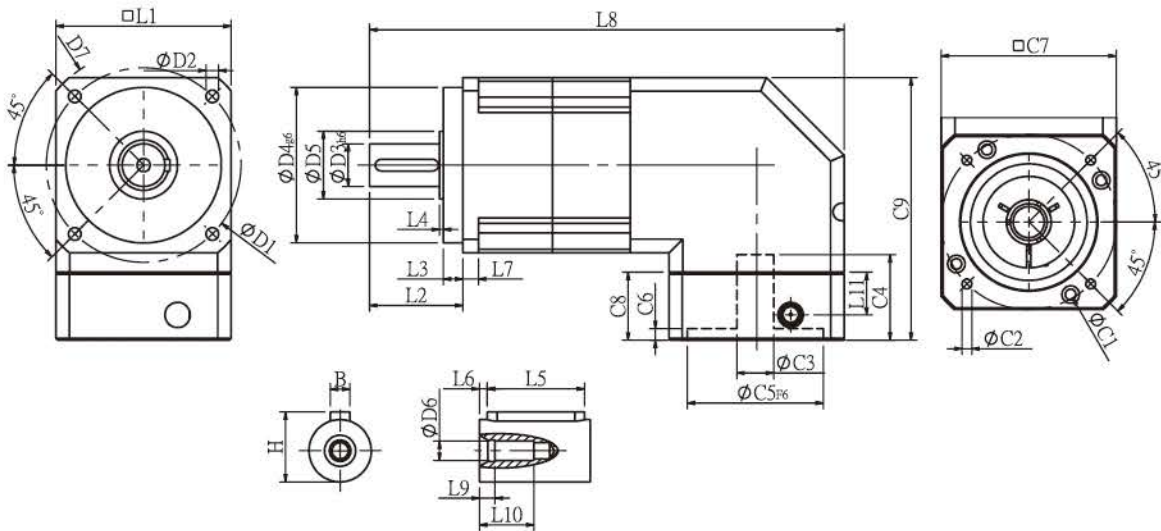
★ C1~C9是公製標準馬達連接板尺寸,請依所選用的馬達決定。

★ 本公司有權針對以上數據規格進行設計變更不先行告知。

★ C1~C9 are motor specific dimensions(metric std shown), Size may vary according to the motor flange chosen.

★ Specification subject to change without notice.

PGR Double Stage Dimensions-1 PGR雙段外型尺寸圖-1



Specifications 規格

Unit:mm

| 尺寸 Dimensions | PGR42 | PGR60 | PGR90 | PGR115 | PGR142 |
|-------------------------------|---------|---------|----------|-----------|----------|
| D1 | 50 | 70 | 100 | 130 | 165 |
| D2 | 3.4 | 5.5 | 6.5 | 8.5 | 10.5 |
| D3 _{h6} | 13 | 16 | 22 | 32 | 40 |
| D4 _{g6} | 35 | 50 | 80 | 110 | 130 |
| D5 | 15 | 25 | 35 | 45 | 50 |
| D6 | M4x0.7P | M5x0.8P | M8x1.25P | M12x1.75P | M16x2.0P |
| D7 | 56 | 80 | 118 | 148 | 186 |
| L1 | 42.6 | 60 | 90 | 115 | 142 |
| L2 | 26 | 37 | 48 | 62 | 93 |
| L3 | 5.5 | 7 | 10 | 8 | 8 |
| L4 | 1.5 | 1.5 | 1.5 | 3 | 6 |
| L5 | 15 | 25 | 32 | 40 | 60 |
| L6 | 2 | 2 | 3 | 5 | 5 |
| L7 | 4 | 6 | 8 | 12 | 18 |
| L8 | 129.6 | 176.7 | 244 | 292.5 | 391 |
| L9 | 4 | 4 | 4.5 | 6 | 6 |
| L10 | 14 | 16.5 | 20.5 | 30 | 38 |
| L11 | 13.5 | 21.5 | 22 | 32 | 44.7 |
| C1 ² | 46 | 70 | 90 | 115 | 145 |
| C2 ² | M4x0.7P | M5x0.8P | M6x1.0P | M8x1.25P | M8x1.25P |
| C3 ² | ≤8 | ≤14 | ≤19/≤24 | ≤24/≤32 | ≤35 |
| C4 ² | 29 | 34 | 44 | 53 | 75 |
| C5 ² _{F6} | 30 | 50 | 70 | 95 | 110 |
| C6 ² | 6 | 5 | 5 | 6 | 9 |
| C7 ² | 42.6 | 60 | 90 | 115 | 140 |
| C8 ² | 25 | 33 | 35 | 48 | 65 |
| C9 ² | 70.8 | 107.8 | 135 | 174.5 | 207 |
| B | 5 | 5 | 6 | 10 | 12 |
| H | 15 | 18 | 24.5 | 35 | 43 |

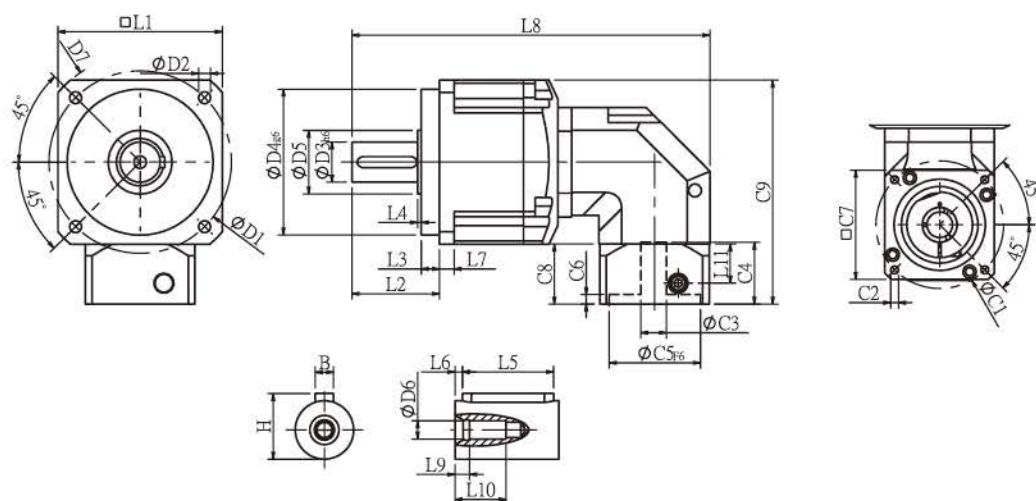
★ C1~C9是公製標準馬達連接板尺寸,請依所選用的馬達決定。

★ 本公司有權針對以上數據規格進行設計變更不先行告知。

★ C1~C9 are motor specific dimensions(metric std shown), Size may vary according to the motor flange chosen.

★ Specification subject to change without notice.

PGR Double Stage Dimensions-2 PGR雙段外型尺寸圖-2



Specifications 規格

Unit:mm

| 尺寸 Dimensions | PGR60T | PGR90T | PGR115T | PGR142T | PGR180T | PGR220T |
|--------------------|---------|----------|-----------|----------|----------|---------|
| D1 | 70 | 100 | 130 | 165 | 215 | - |
| D2 | 5.5 | 6.5 | 8.5 | 10.5 | 13 | - |
| D3h6 | 16 | 22 | 32 | 40 | 55 | - |
| D4g6 | 50 | 80 | 110 | 130 | 160 | - |
| D5 | 25 | 35 | 45 | 50 | 70 | - |
| D6 | M5x0.8P | M8x1.25P | M12x1.75P | M16x2.0P | M20x2.5P | - |
| D7 | 80 | 118 | 148 | 186 | 239 | - |
| L1 | 60 | 90 | 115 | 142 | 182 | - |
| L2 | 37 | 48 | 62 | 93 | 104.5 | - |
| L3 | 7 | 10 | 8 | 8 | 20 | - |
| L4 | 1.5 | 1.5 | 3 | 6 | 2.5 | - |
| L5 | 25 | 32 | 40 | 60 | 70 | - |
| L6 | 2 | 3 | 5 | 5 | 6 | - |
| L7 | 6 | 8 | 12 | 18 | 16 | - |
| L8 | 145.1 | 196.2 | 269.4 | 343.5 | 419.5 | - |
| L9 | 4 | 4.5 | 6 | 6 | 8 | - |
| L10 | 16.5 | 20.5 | 30 | 38 | 48 | - |
| L11 | 13.5 | 21.5 | 22 | 32 | 44.7 | - |
| C1 ² | 46 | 70 | 90 | 115 | 145 | - |
| C2 ² | M4x0.7P | M5x0.8P | M6x1.0P | M8x1.25P | M8x1.25P | - |
| C3 ² | ≤8 | ≤14 | ≤19/≤24 | ≤24/≤32 | ≤35 | - |
| C4 ² | 29 | 34 | 44 | 53 | 75 | - |
| C5 ² F6 | 30 | 50 | 70 | 95 | 110 | - |
| C6 ² | 6 | 5 | 5 | 6 | 9 | - |
| C7 ² | 42.6 | 60 | 90 | 115 | 140 | - |
| C8 ² | 25 | 33 | 35 | 48 | 65 | - |
| C9 ² | 79.5 | 122.8 | 147.5 | 188 | 207 | - |
| B | 5 | 6 | 10 | 12 | 16 | - |
| H | 18 | 24.5 | 35 | 43 | 59 | - |

★ C1~C9是公製標準馬達連接板尺寸,請依所選用的馬達決定。

★ 本公司有權針對以上數據規格進行設計變更不先行告知。

★ C1~C9 are motor specific dimensions(metric std shown), Size may vary according to the motor flange chosen.

★ Specification subject to change without notice.

PGR Specifications Table PGR性能規格共表

| 規格 Specifications | | 節數 Stage | 減速比 Ratio | PGR-42 | PGR-60 | PGR-90 | PGR-115 | PGR-142 | PGR-180 | PGR-220 |
|---|----------------|----------------------|--|--|------------|------------|------------|------------|----------|----------|
| 額定輸出力矩 T _{2N} Nominal Output Torque | N • m | 1 | 3 | 13.8 | 44.3 | 95.2 | 283 | 482 | 1510 | 1670 |
| | | | 4 | 11.9 | 35.9 | 74.6 | 249 | 490 | 1055 | 1574 |
| | | | 5 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 6 | 12.5 | 39.4 | 90.9 | 266 | 436 | 1055 | 1574 |
| | | | 7 | 11.9 | 36.0 | 85.6 | 219 | 400 | 1055 | 1574 |
| | | | 8 | 10.9 | 32.4 | 85.0 | 216 | 363 | 860 | 1184 |
| | | | 9 | 9.8 | 28.7 | 80.0 | 210 | 320 | 764 | 1185 |
| | | | 10 | 10.1 | 25.0 | 75.0 | 210 | 320 | 763 | 1184 |
| | | 節數 Stage | 減速比 Ratio | PGR-42 | PGR-60 (T) | PGR-90(T) | PGR-115(T) | PGR-142(T) | PGR-180T | PGR-220T |
| | | 2 | 15 | 13.8 | 44.2 | 95.2 | 283 | 482 | 1151 | 1670 |
| | | | 20 | 11.9 | 35.9 | 74.6 | 249 | 490 | 1055 | 1574 |
| | | | 25 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 30 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 35 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 40 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 45 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 50 | 13.8 | 43.0 | 95.2 | 283 | 473 | 1151 | 1670 |
| | | | 60 | 12.5 | 39.4 | 90.9 | 266 | 436 | 1055 | 1574 |
| | | | 70 | 11.9 | 36.0 | 85.6 | 219 | 400 | 1055 | 1574 |
| | | | 80 | 10.9 | 32.4 | 85.0 | 216 | 363 | 860 | 1184 |
| | | | 90 | 9.8 | 28.7 | 80.0 | 210 | 320 | 764 | 1185 |
| | | 100 | 10.1 | 25.0 | 75.0 | 210 | 320 | 763 | 1184 | |
| 急停力矩 T _{2NOT} Emergency Stop Torque | N • m | | 3.0 倍額定輸出力矩 (3.0 times of Nominal Output Torque) (* 最大輸出力矩 Max. Output Torque T2B =60% of Emergency Stop Torque) | | | | | | | |
| 額定輸入轉速 n _{1N} Nominal Input Speed | rpm | 1,2 | 3-100 | 3000 | 3000 | 3000 | 2500 | 2000 | 2000 | 2000 |
| 最大輸入轉速 n _{1max} Max. Input Speed | rpm | 1,2 | 3-100 | 6000 | 6000 | 6000 | 5000 | 4000 | 4000 | 4000 |
| 超精密背隙 Micro Backlash P0 | arcmin | 1 | 3-10 | - | - | - | ≤ 4 | ≤ 4 | ≤ 4 | ≤ 4 |
| | | 2 | 12-100 | - | - | - | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 |
| 精密背隙 Precision Backlash P1 | arcmin | 1 | 3-10 | - | - | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 | ≤ 6 |
| | | 2 | 12-100 | - | - | ≤ 9 | ≤ 8 | ≤ 8 | ≤ 8 | ≤ 8 |
| 標準背隙 Standard Backlash P2 | arcmin | 1 | 3-10 | ≤ 12 | ≤ 9 | ≤ 9 | ≤ 9 | ≤ 9 | ≤ 9 | ≤ 9 |
| | | 2 | 12-100 | ≤ 15 | ≤ 12 | ≤ 12 | ≤ 11 | ≤ 11 | ≤ 11 | ≤ 11 |
| 扭轉剛性 Torsional Rigidity | N • m /arcmin | 1,2 | 3-100 | 1.0 | 2.8 | 7.5 | 15.5 | 30 | 57 | 110 |
| 容許徑向力 F _{2rB} ¹ Max. Radial Load | N | 1,2 | 3-100 | 350 | 960 | 1630 | 3380 | 6150 | 7260 | 11120 |
| 容許軸向力 F _{2aB} ¹ Max. Axial Load | N | 1,2 | 3-100 | 320 | 900 | 1420 | 2930 | 5510 | 5550 | 8560 |
| 使用溫度 Operating Temp. | °C | | 3-100 | -10 °C ~ +90 °C | | | | | | |
| 使用壽命 Service Life | hr | | 3-100 | 20,000 (10,000/ 連續運轉 Continuous operation) | | | | | | |
| 效率 Efficiency | % | 1 | 3-10 | ≥ 94% | | | | | | |
| | | 2 | 12-100 | ≥ 90% | | | | | | |
| 重量 Weight | kg | 1 | 3-10 | 1.0 | 2.5 | 6.5 | 13.2 | 24.6 | 49 | 81 |
| | | 2 | 12-100 | 1.3 | 3.2/2.8 | 8.6/6.9 | 17.7/14.5 | 29.7/26.2 | 53 | 87 |
| 安裝方向 Mounting Position | - | 1,2 | 3-100 | 任意方向 Any direction | | | | | | |
| 噪音值 Noise Level ² | dBA/1m | 1,2 | 3-100 | 65 | 67 | 70 | 70 | 75 | 75 | 80 |
| 防護等級 Protection Class | - | 1,2 | 3-100 | IP65 | | | | | | |
| 潤滑 Lubrication | - | 1,2 | 3-100 | 全合成潤滑油 Synthetic Lubricant | | | | | | |
| 減速機轉動慣量 Inertia(J1) | | | | | | | | | | |
| 節數 Stage | 減速比 Ratio | 單位 unit | | PGR-42 | PGR-60 | PGR-90 | PGR-115 | PGR-142 | PGR-180 | PGR-220 |
| 1 | 3/4/5/7/9 | Kg • cm ² | | 0.06 | 0.40 | 2.28 | 6.87 | 24.2 | 69.8 | 138.2 |
| | 6/8/10 | | | 0.05 | 0.30 | 1.45 | 4.76 | 14.5 | 50.3 | 103.6 |
| 節數 Stage | 減速比 Ratio | | | PGR-42 | PGR-60(T) | PGR-90(T) | PGR-115(T) | PGR-142(T) | PGR-180T | PGR-220T |
| 2 | 15/20/25/35/45 | | | 0.06 | 0.40(0.08) | 2.28(0.72) | 6.87(3.02) | 24.2(7.83) | 27.7 | 80.3 |
| | others | | | 0.05 | 0.30(0.06) | 1.45(0.38) | 4.76(1.64) | 14.5(5.00) | 15.9 | 55.3 |
| * 1. 輸出轉速 100rpm 時,作用於輸出軸中心位置 Applied to the output shaft center @100rpm. * 2. 3000rpm 空載重測 Measured at 3000rpm with no load. * 3.PGR115T - □□ - P0不適用上表。 PGR115T - □□ - P0 is not applicable. ※本公司有權對以上數據規格進行設計變更不先行告知。 The above figures/specifications are subject to change without prior notice. | | | | | | | | | | |

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