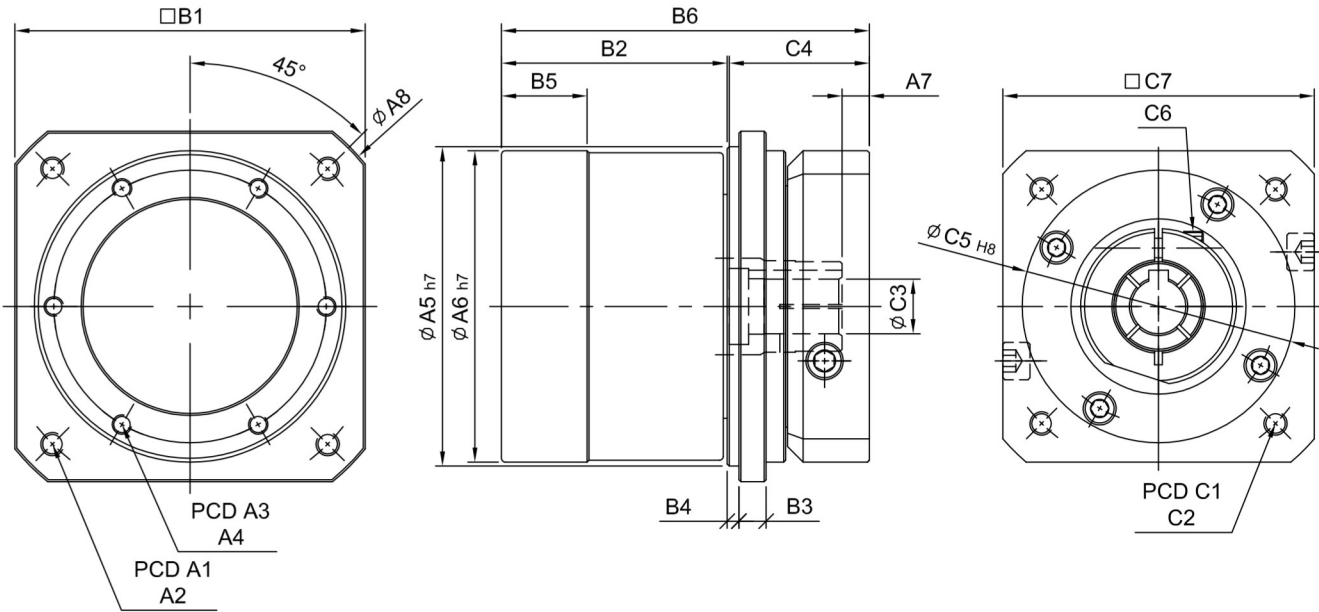
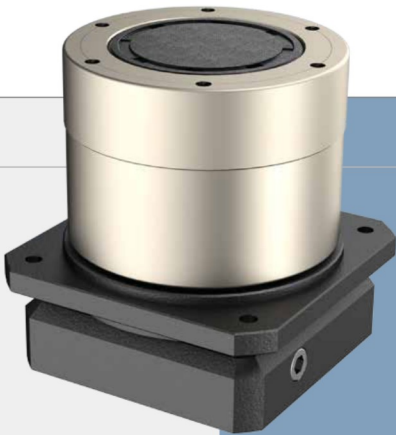


MODEL : SR

單段 1-Stage

RATIO : 2, 3, 4, 6, 9



unit: mm

|   | Model<br>Code | 82        | 100        | 132        |
|---|---------------|-----------|------------|------------|
|   |               |           |            |            |
| A | A1            | 100       | 122        | 166        |
|   | A2            | M6 x P1.0 | M8 x P1.25 | M10 x P1.5 |
|   | A3            | 70        | 84         | 114        |
|   | A4            | M5 x P0.8 | M6 x P1.0  | M8 x P1.25 |
|   | A5            | 82        | 100        | 132        |
|   | A6            | 80        | 96         | 128        |
|   | A7            | 7 ∙ 9     | 8 ∙ 17     | 11.5       |
|   | A8            | 116       | 139        | 184        |
| B | B1            | 90        | 108        | 140        |
|   | B2            | 58        | 63         | 85.5       |
|   | B3            | 7         | 9.5        | 12         |
|   | B4            | 3         | 3.5        | 4          |
|   | B5            | 22        | 24         | 34         |
|   | B6            | 94.5      | 111.5      | 143        |
| C | C1            | 85        | 115        | 130        |
|   | C2            | M6 x P1.0 | M6 x P1.0  | M8 x P1.25 |
|   | C3            | 14 ∙ 19   | 19 ∙ 24    | 24 ∙ 28    |
|   | C4            | 36 ∙ 43   | 47 ∙ 56    | 63.5       |
|   | C5            | 70        | 95         | 110        |
|   | C6            | M5 x P0.8 | M6 x P1.0  | M8 x P1.25 |
|   | C7            | 80        | 110        | 130        |

## High Precision Planetary Reducer

| 規格<br>Model No.                                          | 代號         | 單位<br>Unit | 速比<br>Ratio           | 82                                                                                                            | 100                             | 132                             |
|----------------------------------------------------------|------------|------------|-----------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|
| 額定輸出扭矩<br>Rated Output Torque<br>(Nominal output torque) | $T_{2N}$   | Nm         | 2<br>3<br>4<br>6<br>9 | 96<br>91<br>84<br>80<br>75                                                                                    | 145<br>135<br>128<br>123<br>116 | 301<br>270<br>265<br>258<br>246 |
| 最大加速扭矩 Max. Acceleration Torque                          | $T_{2B}$   | Nm         | 2 ~ 9                 | 1.5 倍額定輸出力矩 1.5 Times of Rated Output Torque                                                                  |                                 |                                 |
| 最大輸出扭矩 Max. Output Torque<br>急停扭矩 Emergency Stop Torque  | $T_{2NOT}$ | Nm         | 2 ~ 9                 | 3 倍額定輸出力矩 3 Times of Rated Output Torque                                                                      |                                 |                                 |
| 額定輸入轉速 Rated Input Speed                                 | $n_{1N}$   | rpm        | 2 ~ 9                 | 3,000                                                                                                         |                                 |                                 |
| 最大輸入轉速 Max. Input Speed                                  | $n_{1B}$   | rpm        | 2 ~ 9                 | 6,000                                                                                                         |                                 |                                 |
| 背隙 Backlash                                              |            | arcmin     | 2 ~ 9                 | ≤ 6                                                                                                           | ≤ 6                             | ≤ 6                             |
| 扭轉剛性 Torsional Rigidity                                  |            | Nm/arcmin  | 2 ~ 9                 | 10                                                                                                            | 14                              | 27                              |
| 容許徑向力 Max. Radial Force                                  | $F_{2rB}$  | N          | 2 ~ 9                 | 3,000                                                                                                         | 3,400                           | 7,200                           |
| 容許軸向力 Max. Axial Force                                   | $F_{2aB}$  | N          | 2 ~ 9                 | 1,500                                                                                                         | 1,700                           | 3,600                           |
| 使用壽命 Service Life                                        | $L_H$      | hr         | 2 ~ 9                 | S5 周期運轉: >30,000 (S1 連續運轉: >15,000 hrs)<br>S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs) |                                 |                                 |
| 效率 Efficiency                                            | $\eta$     | %          | 2 ~ 9                 | ≥ 97%                                                                                                         |                                 |                                 |
| 使用溫度 Operating Temperature                               |            | °C         | 2 ~ 9                 | - 25° C ~ + 90° C                                                                                             |                                 |                                 |
| 潤滑 Lubrication                                           |            |            | 2 ~ 9                 | 全合成潤滑油脂 Synthetic Grease                                                                                      |                                 |                                 |
| 防護等級 Protection Class                                    |            |            | 2 ~ 9                 | IP65                                                                                                          |                                 |                                 |
| 安裝方向 Mounting Position                                   |            |            | 2 ~ 9                 | 任意方向 Any                                                                                                      |                                 |                                 |
| 噪音值 Noise Level                                          |            | dB         | 2 ~ 9                 | ≤ 60                                                                                                          | ≤ 62                            | ≤ 64                            |
| 重量 Weight ±3%                                            |            | Kg         | 2 ~ 9                 | 2.5                                                                                                           |                                 |                                 |

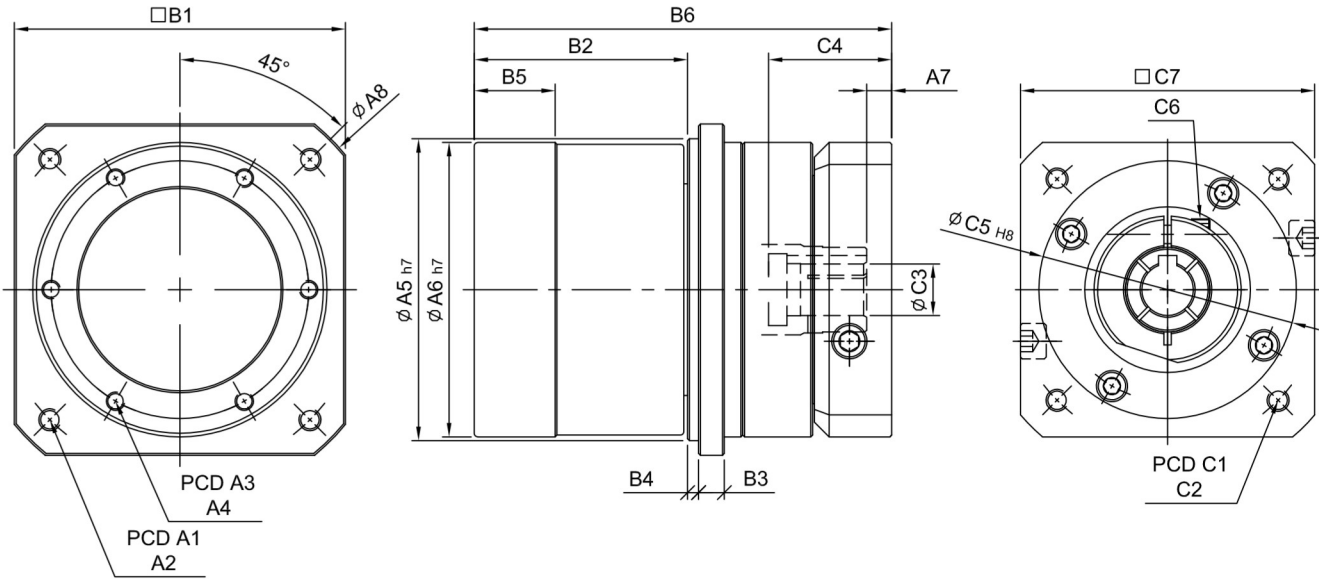
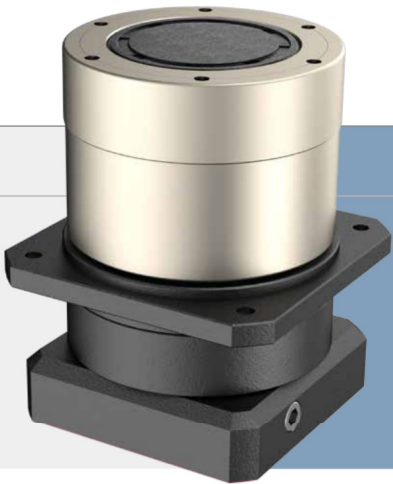
### ■ 轉動慣量 Mass Moments of Inertia (kg.cm<sup>2</sup>)

| Ratio | 82  | 100 | 132 |
|-------|-----|-----|-----|
| 2     | 0.3 | 0.5 | 2.7 |
| 3     | 0.3 | 0.5 | 2.7 |
| 4     | 0.3 | 0.5 | 2.7 |
| 6     | 0.3 | 0.5 | 2.7 |
| 9     | 0.3 | 0.5 | 2.7 |

MODEL : SR

雙段 2-Stage

RATIO : 10, 15, 20, 24, 30, 36, 40, 45, 60, 90



unit: mm

|   | Model<br>Code | 82        | 100        | 132        |
|---|---------------|-----------|------------|------------|
|   |               |           |            |            |
| A | A1            | 100       | 122        | 166        |
|   | A2            | M6 x P1.0 | M8 x P1.25 | M10 x P1.5 |
|   | A3            | 70        | 84         | 114        |
|   | A4            | M5 x P0.8 | M6 x P1.0  | M8 x P1.25 |
|   | A5            | 82        | 100        | 132        |
|   | A6            | 80        | 96         | 128        |
|   | A7            | 7-9       | 8          | 8          |
|   | A8            | 116       | 139        | 184        |
| B | B1            | 90        | 108        | 140        |
|   | B2            | 58        | 63         | 85.5       |
|   | B3            | 7         | 9.5        | 12         |
|   | B4            | 3         | 3.5        | 4          |
|   | B5            | 22        | 24         | 34         |
|   | B6            | 113.5     | 137        | 168        |
| C | C1            | 85        | 115        | 145        |
|   | C2            | M6 x P1.0 | M6 x P1.0  | M8 x P1.25 |
|   | C3            | 14-19     | 19         | 19-24      |
|   | C4            | 33.5-40.8 | 43.5       | 52         |
|   | C5            | 70        | 95         | 110        |
|   | C6            | M5 x P0.8 | M5 x P0.8  | M8 x P1.25 |
|   | C7            | 80        | 110        | 130        |

# High Precision Planetary Reducer

| 規格<br>Model No.                                          | 代號         | 單位<br>Unit | 速比<br>Ratio | 82                                                                 | 100   | 132   |
|----------------------------------------------------------|------------|------------|-------------|--------------------------------------------------------------------|-------|-------|
| 額定輸出扭矩<br>Rated Output Torque<br>(Nominal output torque) | $T_{2N}$   | Nm         | 10          | 96                                                                 | 145   | 301   |
|                                                          |            |            | 15          | 91                                                                 | 135   | 270   |
|                                                          |            |            | 20          | 84                                                                 | 128   | 265   |
|                                                          |            |            | 24          | 80                                                                 | 123   | 258   |
|                                                          |            |            | 30          | 80                                                                 | 123   | 258   |
|                                                          |            |            | 36          | 75                                                                 | 116   | 246   |
|                                                          |            |            | 40          | 84                                                                 | 128   | 265   |
|                                                          |            |            | 45          | 75                                                                 | 116   | 246   |
|                                                          |            |            | 60          | 80                                                                 | 123   | 258   |
|                                                          |            |            | 90          | 75                                                                 | 116   | 246   |
| 最大加速扭矩 Max. Acceleration Torque                          | $T_{2B}$   | Nm         | 10 ~ 90     | 1.5 倍額定輸出力矩 1.5 Times of Rated Output Torque                       |       |       |
| 最大輸出扭矩 Max. Output Torque                                | $T_{2NOT}$ | Nm         | 10 ~ 90     | 3 倍額定輸出力矩 3 Times of Rated Output Torque                           |       |       |
| 急停扭矩 Emergency Stop Torque                               | $T_{2NOT}$ | Nm         | 10 ~ 90     | 3 倍額定輸出力矩 3 Times of Rated Output Torque                           |       |       |
| 額定輸入轉速 Rated Input Speed                                 | $n_{1N}$   | rpm        | 10 ~ 90     | 3,000                                                              |       |       |
| 最大輸入轉速 Max. Input Speed                                  | $n_{1B}$   | rpm        | 10 ~ 90     | 6,000                                                              |       |       |
| 背隙 Backlash                                              |            | arcmin     | 10 ~ 90     | ≤ 8                                                                | ≤ 8   | ≤ 8   |
| 扭轉剛性 Torsional Rigidity                                  |            | Nm/arcmin  | 10 ~ 90     | 10                                                                 | 14    | 27    |
| 容許徑向力 Max. Radial Force                                  | $F_{2rB}$  | N          | 10 ~ 90     | 3,000                                                              | 3,400 | 7,200 |
| 容許軸向力 Max. Axial Force                                   | $F_{2aB}$  | N          | 10 ~ 90     | 1,500                                                              | 1,700 | 3,600 |
| 使用壽命 Service Life                                        | $L_H$      | hr         | 10 ~ 90     | S5 周期運轉: >30,000 (S1 連續運轉: >15,000 hrs)                            |       |       |
| 效率 Efficiency                                            | $\eta$     | %          | 10 ~ 90     | S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs) |       |       |
| 使用溫度 Operating Temperature                               |            | °C         | 10 ~ 90     | ≥ 94%                                                              |       |       |
| 潤滑 Lubrication                                           |            |            | 10 ~ 90     | - 25° C ~ + 90° C                                                  |       |       |
| 防護等級 Protection Class                                    |            |            | 10 ~ 90     | 全合成潤滑油脂 Synthetic Grease                                           |       |       |
| 安裝方向 Mounting Position                                   |            |            | 10 ~ 90     | IP65                                                               |       |       |
| 噪音值 Noise Level                                          |            |            | 10 ~ 90     | 任意方向 Any                                                           |       |       |
| 重量 Weight ±3%                                            |            |            | 10 ~ 90     | ≤ 60                                                               | ≤ 62  | ≤ 64  |
|                                                          |            | Kg         | 10 ~ 90     | 2.8                                                                |       |       |

## ■ 轉動慣量 Mass Moments of Inertia (kg.cm<sup>2</sup>)

| Ratio | 82  | 100 | 132 |
|-------|-----|-----|-----|
| 2     | 0.3 | 0.5 | 2.7 |
| 3     | 0.3 | 0.5 | 2.7 |
| 4     | 0.3 | 0.5 | 2.7 |
| 6     | 0.3 | 0.5 | 2.7 |
| 9     | 0.3 | 0.5 | 2.7 |