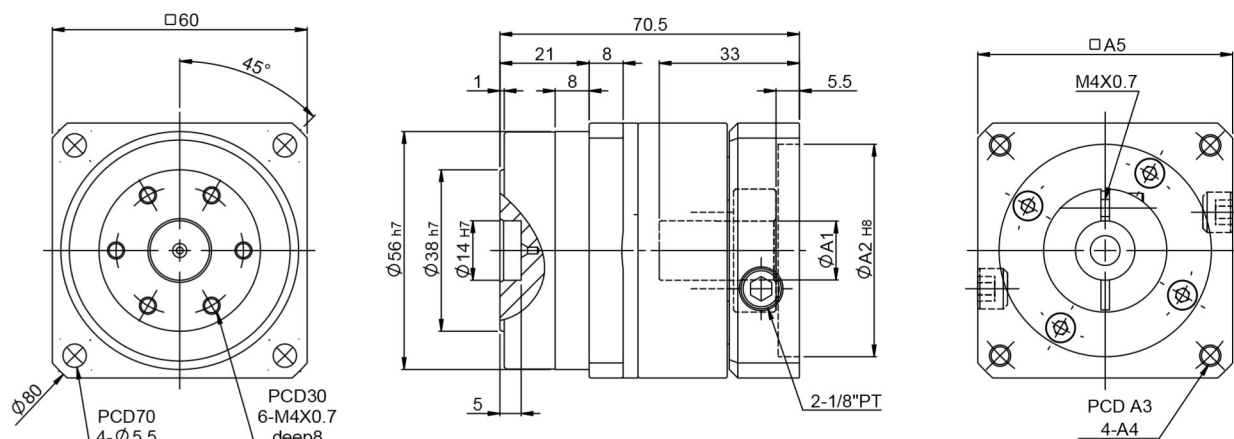
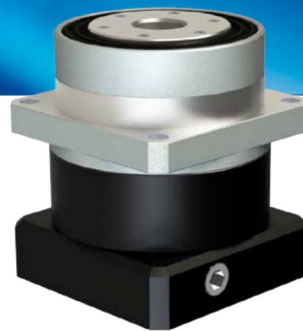


## MODEL : AD60

RATIO : 3, 4, 5, 7, 10 (單段 1-Stage)



入力法蘭尺寸表 Dimension of Input Flange

unit: mm

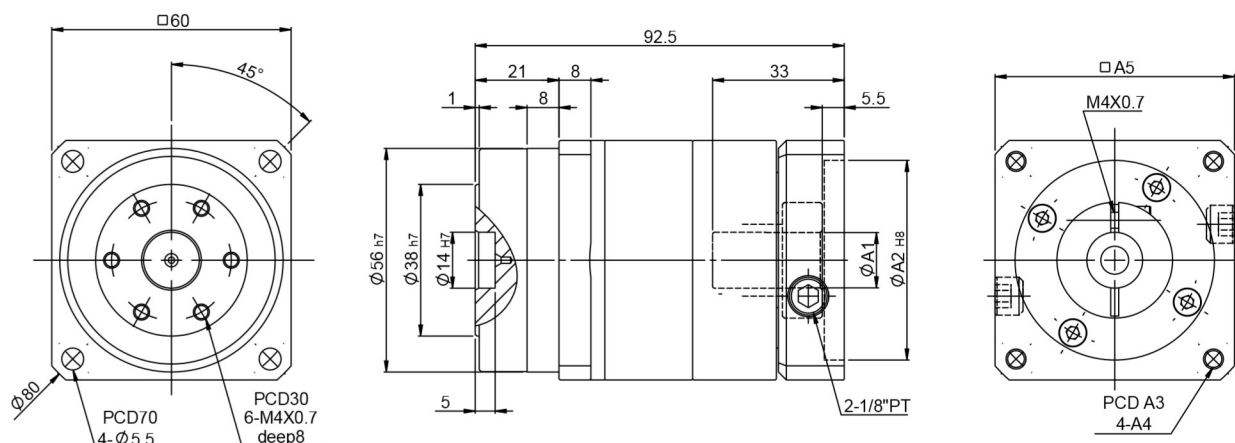
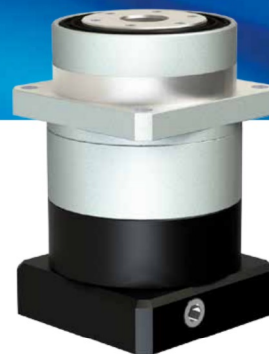
| NO. | ØA1            | ØA2 | A3   | A4 | A5 |
|-----|----------------|-----|------|----|----|
| 1   | 8・9・10・12.7・14 | 30  | 45   | M3 | 46 |
| 2   |                | 30  | 46   | M4 | 46 |
| 3   |                | 30  | 48.5 | M3 | 55 |
| 4   |                | 40  | 63   | M5 | 55 |
| 5   |                | 50  | 70   | M5 | 60 |

## AD60-1 特性表

| 減速比 Ratio                                               | 代號         | 單位 Unit            | 3                                                                                                               | 4    | 5    | 7    | 10   |
|---------------------------------------------------------|------------|--------------------|-----------------------------------------------------------------------------------------------------------------|------|------|------|------|
| 額定輸出扭矩 / Rated Output Torque<br>(Nominal Output Torque) | $T_{2N}$   | Nm                 | 28                                                                                                              | 38   | 40   | 35   | 25   |
| 最大加速扭矩 / Max. Acceleration Torque                       | $T_{2B}$   | Nm                 | 50                                                                                                              | 68   | 22   | 63   | 45   |
| 轉動慣量 / Mass Moments of Inertia                          |            | kg.cm <sup>2</sup> | 0.16                                                                                                            | 0.12 | 0.10 | 0.08 | 0.06 |
| 最大輸出扭矩 / Max. Output Torque                             | $T_{2NOT}$ | Nm                 | 2 倍額定輸出扭矩 2 Times of Rated Output Torque                                                                        |      |      |      |      |
| 急停扭矩 / Emergency Stop Torque                            |            |                    |                                                                                                                 |      |      |      |      |
| 額定輸入轉速 / Rated Input Speed                              | $n_{IN}$   | rpm                | 3,000                                                                                                           |      |      |      |      |
| 最大輸入轉速 / Max. Input Speed                               | $n_{IB}$   | rpm                | 5,000                                                                                                           |      |      |      |      |
| 扭轉剛性 / Torsional Rigidity                               |            | Nm/arcmin          | 4                                                                                                               |      |      |      |      |
| 容許徑向力 / Max. Radial Force                               | $F_{2rB}$  | N                  | 460                                                                                                             |      |      |      |      |
| 容許軸向力 / Max. Axial Force                                | $F_{2aB}$  | N                  | 230                                                                                                             |      |      |      |      |
| 使用壽命 / Service Life                                     | $L_H$      | hr                 | 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                                         | $\eta$     | %                  | ≥ 97%                                                                                                           |      |      |      |      |
| 使用溫度 / Operating Temperature                            |            | °C                 | - 25° C ~ + 90° C                                                                                               |      |      |      |      |
| 潤滑 / Lubrication                                        |            |                    | 全合成潤滑油脂 Synthetic Grease                                                                                        |      |      |      |      |
| 防護等級 / Protection Class                                 |            |                    | IP 65                                                                                                           |      |      |      |      |
| 安裝方向 / Mounting Position                                |            |                    | 任意 Any                                                                                                          |      |      |      |      |
| 噪音值 / Noise Level                                       |            | dB                 | ≤ 58 dB                                                                                                         |      |      |      |      |
| 重量 / Weight ±2%                                         |            | Kg                 | 0.88                                                                                                            |      |      |      |      |

# MODEL : AD60

RATIO : 15, 20, 25, 30, 35, 40, 50, 70, 100 ( 雙段 2-Stage)



入力法蘭尺寸表 Dimension of Input Flange

unit: mm

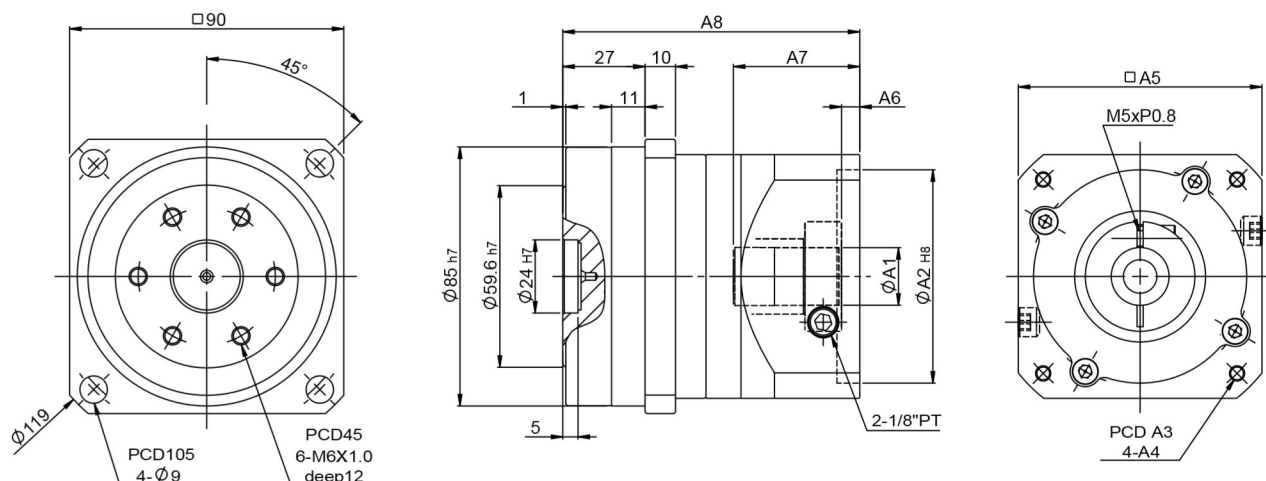
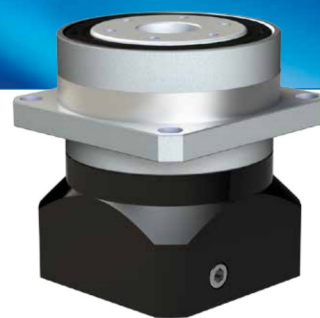
| NO. | ØA1            | ØA2 | A3   | A4 | A5 |
|-----|----------------|-----|------|----|----|
| 1   | 8、9、10、12.7、14 | 30  | 45   | M3 | 46 |
| 2   |                | 30  | 46   | M4 | 46 |
| 3   |                | 30  | 48.5 | M3 | 55 |
| 4   |                | 40  | 63   | M5 | 55 |
| 5   |                | 50  | 70   | M5 | 60 |

## AD60-2 特性表

| 減速比 Ratio                                               | 代號         | 單位 Unit            | 3                                                                                                               | 4  | 5  | 3  | 7  | 4  | 5  | 7  | 10  |
|---------------------------------------------------------|------------|--------------------|-----------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|-----|
| 額定輸出扭矩 / Rated Output Torque<br>(Nominal Output Torque) | $T_{2N}$   | Nm                 | 15                                                                                                              | 20 | 25 | 30 | 35 | 40 | 50 | 70 | 100 |
| 最大加速扭矩 / Max. Acceleration Torque                       | $T_{2B}$   | Nm                 | 28                                                                                                              | 38 | 40 | 28 | 35 | 38 | 40 | 35 | 25  |
| 轉動慣量 / Mass Moments of Inertia                          |            | kg.cm <sup>2</sup> | 50                                                                                                              | 68 | 22 | 50 | 63 | 68 | 72 | 63 | 45  |
| 最大輸出扭矩 / Max. Output Torque                             | $T_{2NOT}$ | Nm                 | 2 倍額定輸出扭矩 2 Times of Rated Output Torque                                                                        |    |    |    |    |    |    |    |     |
| 急停扭矩 / Emergency Stop Torque                            |            |                    |                                                                                                                 |    |    |    |    |    |    |    |     |
| 額定輸入轉速 / Rated Input Speed                              | $n_{1N}$   | rpm                | 3,000                                                                                                           |    |    |    |    |    |    |    |     |
| 最大輸入轉速 / Max. Input Speed                               | $n_{1B}$   | rpm                | 5,000                                                                                                           |    |    |    |    |    |    |    |     |
| 扭轉剛性 / Torsional Rigidity                               |            | Nm/arcmin          | 4                                                                                                               |    |    |    |    |    |    |    |     |
| 容許徑向力 / Max. Radial Force                               | $F_{2rB}$  | N                  | 460                                                                                                             |    |    |    |    |    |    |    |     |
| 容許軸向力 / Max. Axial Force                                | $F_{2aB}$  | N                  | 230                                                                                                             |    |    |    |    |    |    |    |     |
| 使用壽命 / Service Life                                     | $L_H$      | hr                 | 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                                         | $\eta$     | %                  | ≥ 97%                                                                                                           |    |    |    |    |    |    |    |     |
| 使用溫度 / Operating Temperature                            |            | °C                 | - 25° C ~ + 90° C                                                                                               |    |    |    |    |    |    |    |     |
| 潤滑 / Lubrication                                        |            |                    | 全合成潤滑油脂 Synthetic Grease                                                                                        |    |    |    |    |    |    |    |     |
| 防護等級 / Protection Class                                 |            |                    | IP 65                                                                                                           |    |    |    |    |    |    |    |     |
| 安裝方向 / Mounting Position                                |            |                    | 任意 Any                                                                                                          |    |    |    |    |    |    |    |     |
| 噪音值 / Noise Level                                       |            | dB                 | ≤ 58 dB                                                                                                         |    |    |    |    |    |    |    |     |
| 重量 / Weight ±2%                                         |            | Kg                 | 1.24                                                                                                            |    |    |    |    |    |    |    |     |

## MODEL : AD90

RATIO : 3, 4, 5, 7, 10 (單段 1-Stage)



入力法蘭尺寸表 Dimension of Input Flange

unit: mm

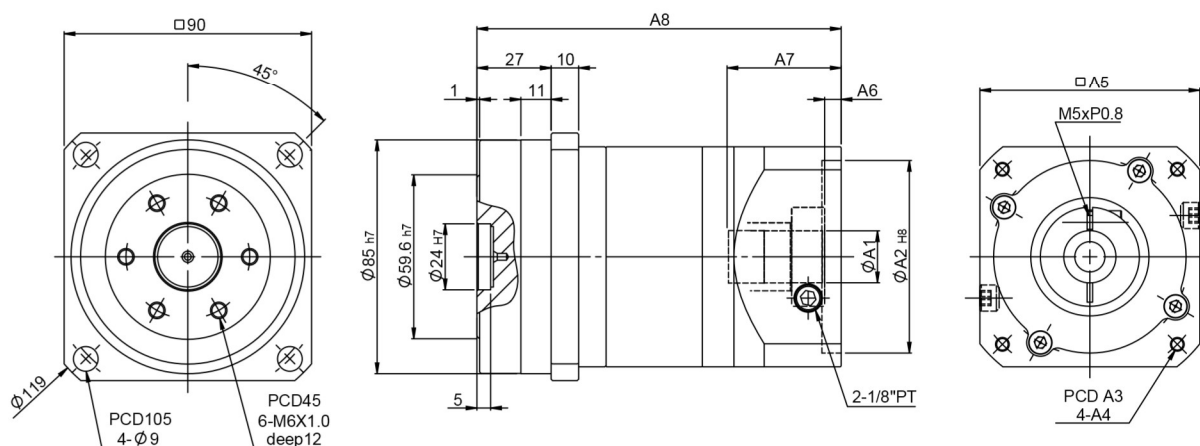
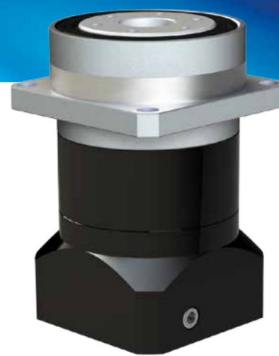
| NO. | ØA1     | ØA2 | A3 | A4 | A5 | A6  | A7   | A8   |
|-----|---------|-----|----|----|----|-----|------|------|
| 1   | 14 · 19 | 50  | 70 | M5 | 80 | 5.5 | 33.5 | 89.5 |
| 2   |         | 70  | 90 | M6 | 80 | 6   | 41.5 | 97.5 |

## AD90-1 特性表

| 減速比 Ratio                                               | 代號         | 單位 Unit            | 3                                                                                                               | 4    | 5    | 7    | 10   |
|---------------------------------------------------------|------------|--------------------|-----------------------------------------------------------------------------------------------------------------|------|------|------|------|
| 額定輸出扭矩 / Rated Output Torque<br>(Nominal Output Torque) | $T_{2N}$   | Nm                 | 112                                                                                                             | 110  | 108  | 105  | 100  |
| 最大加速扭矩 / Max. Acceleration Torque                       | $T_{2B}$   | Nm                 | 168                                                                                                             | 165  | 162  | 158  | 150  |
| 轉動慣量 / Mass Moments of Inertia                          |            | kg.cm <sup>2</sup> | 0.48                                                                                                            | 0.45 | 0.40 | 0.35 | 0.32 |
| 最大輸出扭矩 / Max. Output Torque                             | $T_{2NOT}$ | Nm                 | 2 倍額定輸出扭矩 2 Times of Rated Output Torque                                                                        |      |      |      |      |
| 急停扭矩 / Emergency Stop Torque                            |            |                    |                                                                                                                 |      |      |      |      |
| 額定輸入轉速 / Rated Input Speed                              | $n_{IN}$   | rpm                | 3,000                                                                                                           |      |      |      |      |
| 最大輸入轉速 / Max. Input Speed                               | $n_{IB}$   | rpm                | 5,000                                                                                                           |      |      |      |      |
| 扭轉剛性 / Torsional Rigidity                               |            | Nm/arcmin          | 12                                                                                                              |      |      |      |      |
| 容許徑向力 / Max. Radial Force                               | $F_{2rB}$  | N                  | 1,400                                                                                                           |      |      |      |      |
| 容許軸向力 / Max. Axial Force                                | $F_{2aB}$  | N                  | 660                                                                                                             |      |      |      |      |
| 使用壽命 / Service Life                                     | $L_H$      | hr                 | S5 周期運轉 : >20,000 (S1 連續運轉 : >10,000 hrs)<br>S5 Cycle Operation: >20,000 (S1 Continuous Operation: >10,000 hrs) |      |      |      |      |
| 效率 / Efficiency                                         | $\eta$     | %                  | ≥ 97%                                                                                                           |      |      |      |      |
| 使用溫度 / Operating Temperature                            |            | °C                 | - 20° C ~ + 90° C                                                                                               |      |      |      |      |
| 潤滑 / Lubrication                                        |            |                    | 全合成潤滑油脂 Synthetic Grease                                                                                        |      |      |      |      |
| 防護等級 / Protection Class                                 |            |                    | IP 65                                                                                                           |      |      |      |      |
| 安裝方向 / Mounting Position                                |            |                    | 任意 Any                                                                                                          |      |      |      |      |
| 噪音值 / Noise Level                                       |            | dB                 | ≤ 60 dB                                                                                                         |      |      |      |      |
| 重量 / Weight ±2%                                         |            | Kg                 | 2.3                                                                                                             |      |      |      |      |

# MODEL : AD90

RATIO : 15, 20, 25, 30, 35, 40, 50, 70, 100 ( 雙段 2-Stage)



入力法蘭尺寸表 Dimension of Input Flange

unit: mm

| NO. | ØA1     | ØA2 | A3 | A4 | A5 | A6  | A7   | A8    |
|-----|---------|-----|----|----|----|-----|------|-------|
| 1   | 14 · 19 | 50  | 70 | M5 | 80 | 5.5 | 33.5 | 124.5 |
| 2   |         | 70  | 90 | M6 | 80 | 6   | 41.5 | 132.5 |

## AD90-2 特性表

| 減速比 Ratio                                               | 代號         | 單位 Unit            | 15                                                                                                              | 20   | 25   | 30   | 35   | 40   | 50   | 70   | 100  |
|---------------------------------------------------------|------------|--------------------|-----------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| 額定輸出扭矩 / Rated Output Torque<br>(Nominal Output Torque) | $T_{2N}$   | Nm                 | 112                                                                                                             | 110  | 108  | 112  | 105  | 110  | 108  | 105  | 100  |
| 最大加速扭矩 / Max. Acceleration Torque                       | $T_{2B}$   | Nm                 | 168                                                                                                             | 165  | 162  | 202  | 158  | 165  | 162  | 158  | 150  |
| 轉動慣量 / Mass Moments of Inertia                          |            | kg.cm <sup>2</sup> | 0.45                                                                                                            | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| 最大輸出扭矩 / Max. Output Torque                             | $T_{2NOT}$ | Nm                 | 2 倍額定輸出扭矩 2 Times of Rated Output Torque                                                                        |      |      |      |      |      |      |      |      |
| 急停扭矩 / Emergency Stop Torque                            |            |                    |                                                                                                                 |      |      |      |      |      |      |      |      |
| 額定輸入轉速 / Rated Input Speed                              | $n_{1N}$   | rpm                | 3,000                                                                                                           |      |      |      |      |      |      |      |      |
| 最大輸入轉速 / Max. Input Speed                               | $n_{1B}$   | rpm                | 5,000                                                                                                           |      |      |      |      |      |      |      |      |
| 扭轉剛性 / Torsional Rigidity                               |            | Nm/arcmin          | 12                                                                                                              |      |      |      |      |      |      |      |      |
| 容許徑向力 / Max. Radial Force                               | $F_{2rB}$  | N                  | 1,400                                                                                                           |      |      |      |      |      |      |      |      |
| 容許軸向力 / Max. Axial Force                                | $F_{2aB}$  | N                  | 660                                                                                                             |      |      |      |      |      |      |      |      |
| 使用壽命 / Service Life                                     | $L_H$      | hr                 | S5 周期運轉 : >20,000 (S1 連續運轉 : >10,000 hrs)<br>S5 Cycle Operation: >20,000 (S1 Continuous Operation: >10,000 hrs) |      |      |      |      |      |      |      |      |
| 效率 / Efficiency                                         | $\eta$     | %                  | ≥ 95%                                                                                                           |      |      |      |      |      |      |      |      |
| 使用溫度 / Operating Temperature                            |            | °C                 | - 25° C ~ + 90° C                                                                                               |      |      |      |      |      |      |      |      |
| 潤滑 / Lubrication                                        |            |                    | 全合成潤滑油脂 Synthetic Grease                                                                                        |      |      |      |      |      |      |      |      |
| 防護等級 / Protection Class                                 |            |                    | IP 65                                                                                                           |      |      |      |      |      |      |      |      |
| 安裝方向 / Mounting Position                                |            |                    | 任意 Any                                                                                                          |      |      |      |      |      |      |      |      |
| 噪音值 / Noise Level                                       |            | dB                 | ≤ 62 dB                                                                                                         |      |      |      |      |      |      |      |      |
| 重量 / Weight ±2%                                         |            | Kg                 | 3.3                                                                                                             |      |      |      |      |      |      |      |      |