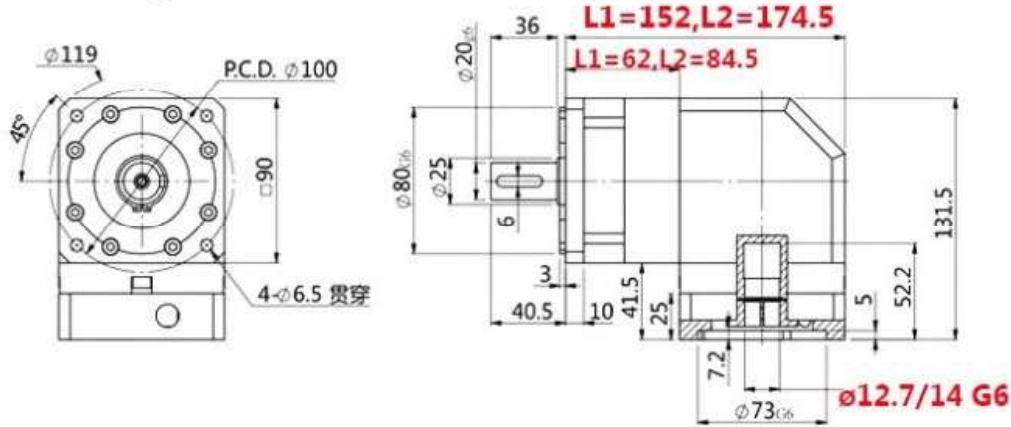


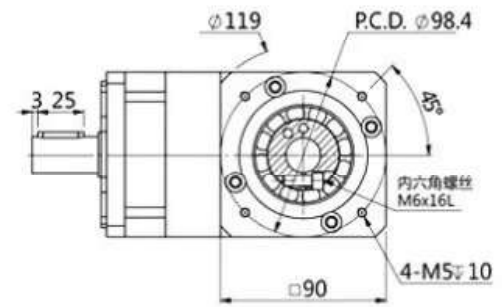
## PVF090 Series Right Angle Planetary Gearbox Parameter

| PVF090 Gear Reducer Technical Parameters |           |                               |
|------------------------------------------|-----------|-------------------------------|
| Technical Parameter                      | Unit      | Value                         |
| Max Radial Torque                        | N         | 450                           |
| Max Axial Torque                         | N         | 430                           |
| Torsional Stiffness                      | Nm/arcmin | 4.85                          |
| Max Input Speed                          | rpm       | 6000                          |
| Rated Input Speed                        | rpm       | 3500                          |
| Noise                                    | dB        | ≤60                           |
| Backlash (Stage 1)                       | arcmin    | ≤10                           |
| Backlash (Stage 2)                       | arcmin    | ≤15                           |
| Max. Output Torque                       | Nm        | 1.5 Times Rated Output Torque |
| Instant Braking Torque                   | Nm        | 2 Times Rated Output Torque   |
| Life time                                | h         | 20000                         |
| IP Degree                                | -         | IP65                          |
| Operating Temperature                    | °C        | -10°C~+90°C                   |
| Full Load Efficiency                     | %         | L1≥95%, L2≥92%                |
| Rated Output Torque (Nm)                 |           |                               |
| Stage                                    | Ratio     | Rated Output Torque           |
| Stage 1 (L1)                             | 3:01      | 96                            |
|                                          | 4:01      | 122                           |
|                                          | 5:01      | 122                           |
| Stage 2 (L2)                             | 15:01     | 96                            |
|                                          | 20:01     | 122                           |
|                                          | 25:01:00  | 122                           |
|                                          | 30:01:00  | 96                            |
|                                          | 35:01:00  | 122                           |
|                                          | 40:01:00  | 122                           |
|                                          | 50:01:00  | 122                           |
|                                          | 70:01:00  | 95                            |
|                                          | 100:01:00 | 56                            |
| Moment of Inertia (Kg.cm <sup>2</sup> )  |           |                               |
| Stage                                    | Ratio     | Moment of Inertia             |
| Stage 1 (L1)                             | 3:01      | 1.73                          |
|                                          | 4:01      | 1.73                          |
|                                          | 5:01      | 1.73                          |
|                                          | 7:01      | 1.42                          |
| Stage 2 (L2)                             | 15:01     | 1.49                          |
|                                          | 20:01     | 1.49                          |
|                                          | 25:01:00  | 1.49                          |
|                                          | 30:01:00  | 1.49                          |
|                                          | 35:01:00  | 1.49                          |
|                                          | 40:01:00  | 1.49                          |
|                                          | 50:01:00  | 1.25                          |
|                                          | 70:01:00  | 1.25                          |
|                                          | 100:01:00 | 1.25                          |

## Output

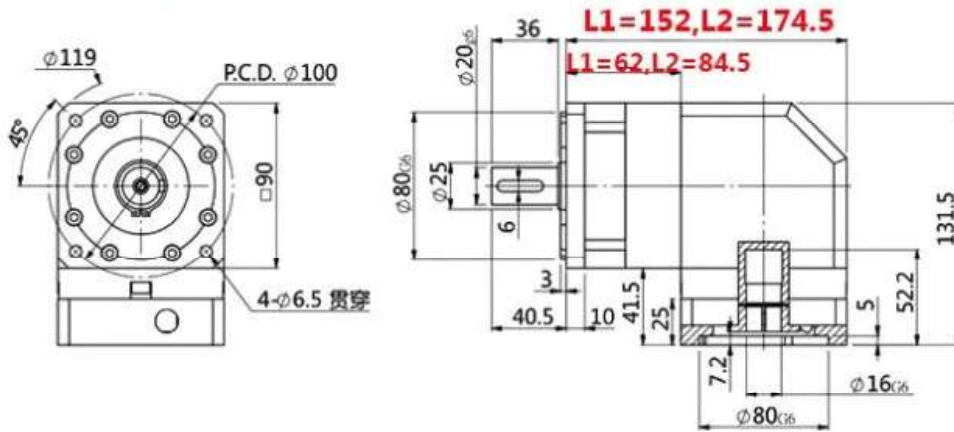


## Input

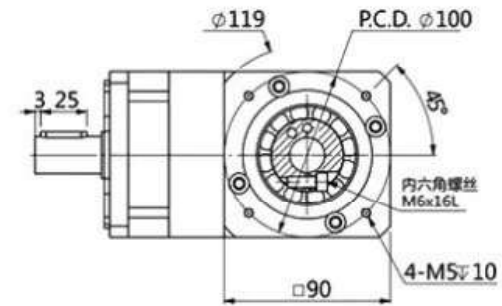


## 16mm Input for 90mm Flange Servo Motor

## Output

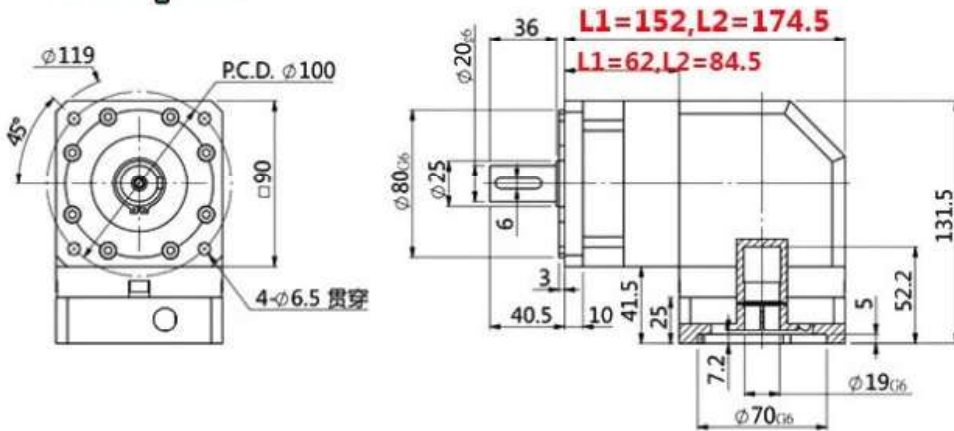


## Input

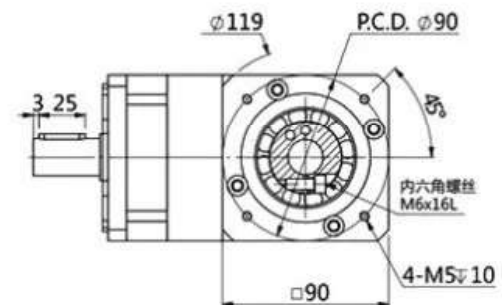


## 19mm Input for 80mm Flange Servo Motor

## Output

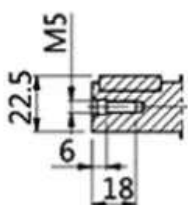


## Input



## Output Shaft With Key

## Speed Ratio



1 Stage (L1): 3:1 / 4:1 / 5:1 / 7:1 / 10:1

2 Stage (L2): 15:1 / 20:1 / 25:1 / 30:1 / 35:1 / 40:1 / 50:1 / 70:1 / 100:1