

# ZHR-H14

## Integrated Harmonic Joint Actuator



DIAMETER  
**70 mm**

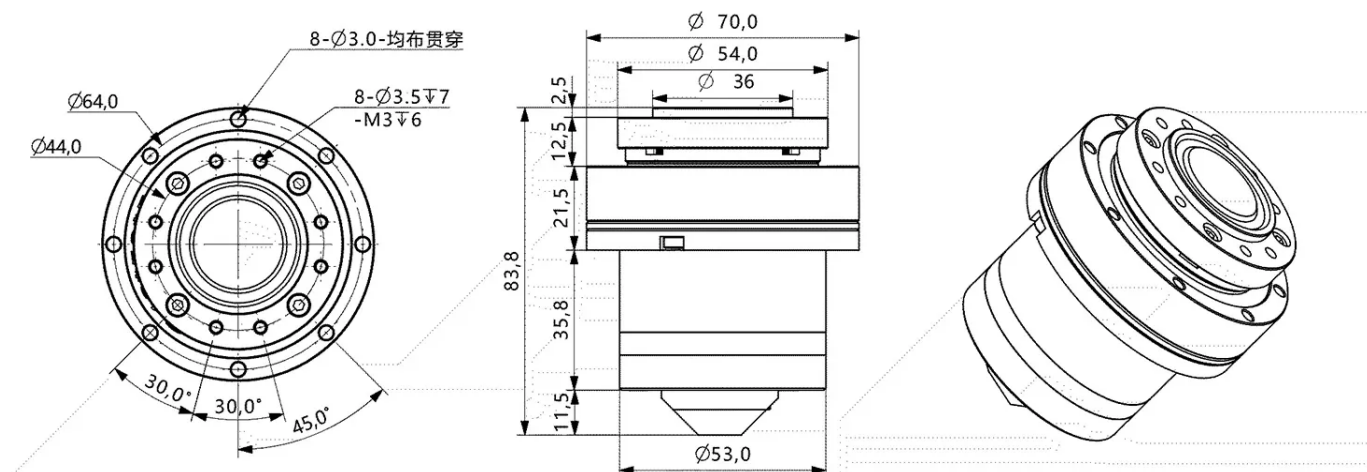
WEIGHT  
**0.7 kg**

VOLTAGE  
**18 - 24 V**

### TECHNICAL SPECIFICATIONS

| PARAMETERS \ RATIO                 | 30                         | 50 | 80 | 100 |
|------------------------------------|----------------------------|----|----|-----|
| <b>Performance</b>                 |                            |    |    |     |
| Rated Torque (Nm)                  | 5                          | 7  | 10 | 14  |
| Peak Torque (Nm)                   | 15                         | 25 | 30 | 46  |
| Rated Speed (RPM)                  | 55                         | 32 | 20 | 16  |
| Peak Speed (RPM)                   | 75                         | 44 | 28 | 22  |
| <b>Electrical &amp; Mechanical</b> |                            |    |    |     |
| Rated Voltage                      | 18 - 24 VDC                |    |    |     |
| Current (Rated/Peak)               | 2.0 A / 5.10 A             |    |    |     |
| Encoder Resolution                 | 18-bit Multi-turn Absolute |    |    |     |
| Communication                      | CAN / RS485                |    |    |     |
| Backlash                           | < 20 arcsec                |    |    |     |
| IP Rating                          | IP54                       |    |    |     |

### DIMENSION DRAWING





# ZHR-H17

Integrated Harmonic Joint Actuator



DIAMETER  
**80 mm**

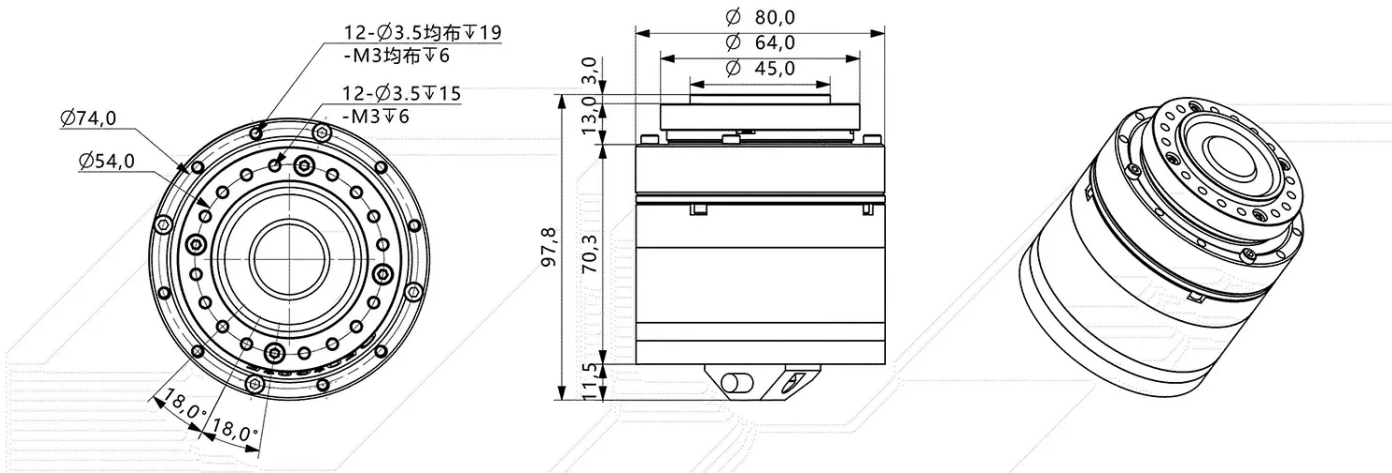
WEIGHT  
**1.3 kg**

VOLTAGE  
**36 - 48 V**

## TECHNICAL SPECIFICATIONS

| PARAMETERS \ RATIO      | 30                         | 50 | 80  | 100 |
|-------------------------|----------------------------|----|-----|-----|
| Performance             |                            |    |     |     |
| Rated Torque (Nm)       | 13                         | 21 | 34  | 43  |
| Peak Torque (Nm)        | 40                         | 63 | 101 | 122 |
| Rated Speed (RPM)       | 66.6                       | 40 | 25  | 20  |
| Peak Speed (RPM)        | 83                         | 50 | 32  | 25  |
| Electrical & Mechanical |                            |    |     |     |
| Rated Voltage           | 36 - 48 VDC                |    |     |     |
| Current (Rated/Peak)    | 4.0 A / 9.0 A              |    |     |     |
| Encoder Resolution      | 18-bit Multi-turn Absolute |    |     |     |
| Communication           | CAN / RS485                |    |     |     |
| Backlash                | < 20 arcsec                |    |     |     |
| IP Rating               | IP54                       |    |     |     |

## DIMENSION DRAWING



# ZHR-H20

Integrated Harmonic Joint Actuator



DIAMETER  
**90 mm**

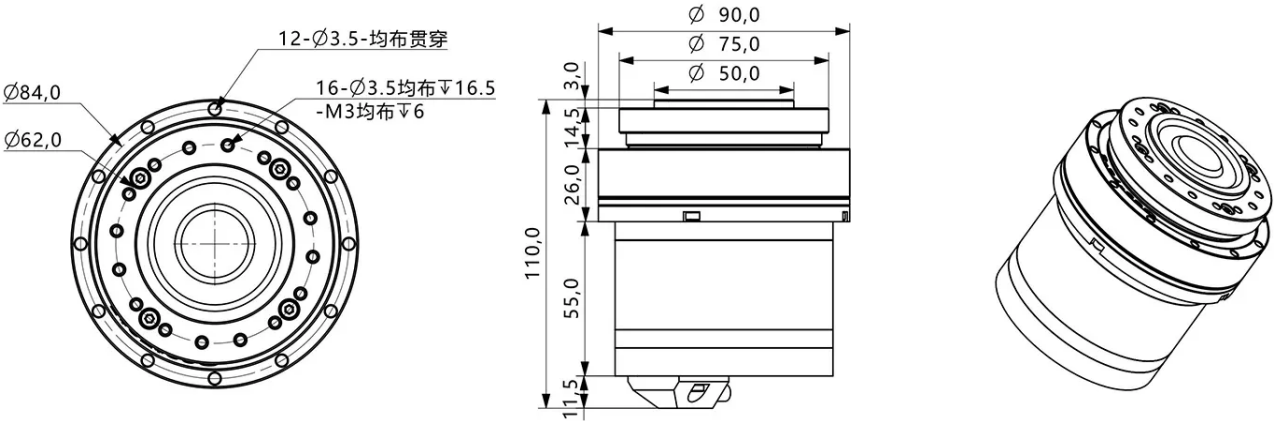
WEIGHT  
**1.7 kg**

VOLTAGE  
**36 - 48 V**

## TECHNICAL SPECIFICATIONS

| PARAMETERS \ RATIO      | 30                         | 50  | 80  | 100 |
|-------------------------|----------------------------|-----|-----|-----|
| Performance             |                            |     |     |     |
| Rated Torque (Nm)       | 20                         | 44  | 61  | 64  |
| Peak Torque (Nm)        | 50                         | 127 | 165 | 170 |
| Rated Speed (RPM)       | 66.6                       | 40  | 25  | 20  |
| Peak Speed (RPM)        | 83                         | 50  | 32  | 25  |
| Electrical & Mechanical |                            |     |     |     |
| Rated Voltage           | 36 - 48 VDC                |     |     |     |
| Current (Rated/Peak)    | 5.0 A / 11.0 A             |     |     |     |
| Encoder Resolution      | 18-bit Multi-turn Absolute |     |     |     |
| Communication           | CAN / RS485                |     |     |     |
| Backlash                | < 20 arcsec                |     |     |     |
| IP Rating               | IP54                       |     |     |     |

## DIMENSION DRAWING





# ZHR-H25

Integrated Harmonic Joint Actuator



DIAMETER  
**110 mm**

WEIGHT  
**2.3 kg**

VOLTAGE  
**36 - 48 V**

## TECHNICAL SPECIFICATIONS

| PARAMETERS \ RATIO      | 30                         | 50  | 80  | 100 |
|-------------------------|----------------------------|-----|-----|-----|
| Performance             |                            |     |     |     |
| Rated Torque (Nm)       | 27                         | 52  | 73  | 91  |
| Peak Torque (Nm)        | 63                         | 115 | 160 | 210 |
| Rated Speed (RPM)       | 66.6                       | 40  | 25  | 20  |
| Peak Speed (RPM)        | 83                         | 50  | 32  | 25  |
| Electrical & Mechanical |                            |     |     |     |
| Rated Voltage           | 36 - 48 VDC                |     |     |     |
| Current (Rated/Peak)    | 5.0 A / 11.0 A             |     |     |     |
| Encoder Resolution      | 18-bit Multi-turn Absolute |     |     |     |
| Communication           | CAN / RS485                |     |     |     |
| Backlash                | < 20 arcsec                |     |     |     |
| IP Rating               | IP54                       |     |     |     |

## DIMENSION DRAWING

