

Flat & Simple Harmonic Reducer

High rigidity

High torque capacity

Compact and concise structure

Excellent positioning and rotation accuracy

Integrated and convenient use of wave generator



Harmonic Reducer

Features



Cup Structure

This series of reducer has the characteristics of high rigidity, high precision and high torque.

The flexwheel is a cup-shaped standard barrel structure, and the input shaft is directly matched with the inner hole of the wave generator and connected by a flat key.

Generally, the steel wheel is fixed, and the connection mode of the flexible wheel end output is used.

High Precision

Different from the ordinary gear meshing, the backlash is very small, multiple teeth meshing at the same time, and there are two 180 degree symmetric gear meshing, so the impact of gear pitch error and cumulative pitch error on the rotation accuracy is more average, so that the position accuracy and rotation accuracy reach a very high level. (arcsec)





Easy to install

The three basic components achieve a high deceleration ratio, and they are all coaxial, so the kit is easy to install and simple to shape.

Small size, light weight: compared with the previous gear device, the volume is $\frac{1}{3}$, the weight is $\frac{1}{2}$, but the same torque capacity and deceleration ratio can be obtained to achieve small weight.

Motor Flange mounting plate

Comes with motor flange mounting plate, no additional purchase required.

Confirm the motor flange size, easy to install.

Buy with harmonic reducer to save time. Provide efficiency



The ZXF series flexible wheels have a hollow flanged standard cylinder structure, with a compact overall structure. The input shaft is directly matched with the inner hole of the wave generator and connected through a flat key. Both steel wheel end fixation and flexible wheel end output can be used; The connection method of fixed flexible wheel end and output steel wheel end can also be used.





Wave generator

Flexspline

Circular spline

ZXF Series Harmonic Drive



Application



Industrial robot



Service robots



Metal machine tools



Medical Devices



Analysis, Test, Equipmen



Energy Related equipment



Papermaking Equipment

Our Harmonic Reducer

1:1

Replace



Harmonic Drive System



Model

SHF - 25 - 100 - 2SO - SP
1 2 3 4 5

1. Model: SHF series

2. Model Nos: 14, 17, 20, 25, 32, 40, 45, 50, 58, 65

3. Reduction ratio: 30, 50, 80, 100, 120, 160

4. Model:

◦ 2SO = Simple unit type (Standard structure unit)

Tips: If the purchase link does not include the size you want, please contact us to purchase and we can provide 3D drawings.

✓ with motor flange mounting plate

✓ Integral design, Stable performance

✓ Low-noise balanced operation

✓ transmission error backlash ≤ 10 Arcses

✓ High torque Wide application range