



PROFESSIONAL **SLEWING DRIVE**  
**SLEWING RING**  
MANUFACTURER



[www.motiontech.com.au](http://www.motiontech.com.au)

## **Introduction**

Drive slew rings consist of a slew bearing, worm shaft, housing, shaft bearings and a motor in an integrated package with a hollow bore. The motor drives the worm shaft which in turn drives the outer ring of slew bearing causing it to rotate. The outer ring is attached to a rotating flange while the inner ring of the drive slew ring slewing bearing is fixed to the stationary housing.

## **Function**

- Designed to carry combined axial and radial loads as well as a tilting moment.
- Horizontal or vertical mounts.
- Dual axis versions available
- Dual drive versions to provide very high drive torque.
- Electric (AC, DC, geared) or hydraulic motors.

## **Application**

- Solar tracking for dish/array/trough sun tracking.
- Industrial
- Cranes
- Wheel drive
- Winch drive
- Mining equipment (eg rock grab)
- Construction Machinery (eg crane slew)
- Welding Equipment (eg manipulator)
- Automation (eg robot rotation)

## **Features**

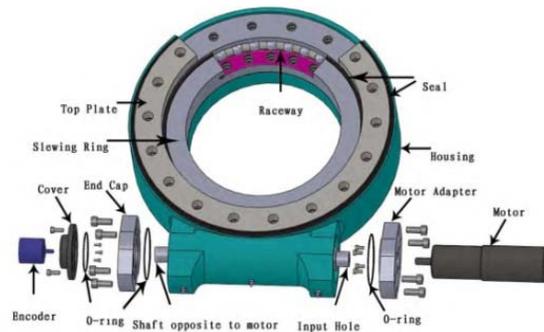
- 11 frames sizes, 80 to 400mm worm centre distance
- Frame OD from 152mm to 845mm
- Rated max. torque from 400 to 150,000 Nm
- Rated static radial load from 16.6 to 945 kN
- Rated static axial load from 30 2360 kN
- Through bore
- Low profile design
- Open or fully sealed versions

### **Solar Applications**



### **Industrial Applications**





## Solar Tracking



SE slewing drives with motor have a completed solution of solar tracking system, which is verified on-site.



VE slewing drives with motor have a completed solution of solar tracking system.



SE series and special development of slewing drive have been installed in inclined single photovoltaic tracking station. The capacity is nearly 200 mw, which got the favor of EPC manufacturers as low failure rate, remarkable performance and good rigidity.



Controlling the solar components by horizontal and Elevation tracking, it will improve power generation efficiency with high return on investment. The slewing drives have been widely promoted in market of Europe, United States and China.

## CSP Tracking



VE9, WVE27 slewing drive are used in Parabolic Trough, which are convenient for maintaining and changing the original hydraulic oil.



The customized PDE and PE slewing drive are applied on dish solar generation system, which is testing and installing on-site. With excellent performance and best solution, our slewing drive is approved by EPC and customers at home and abroad.



Precise and professional user customization design scheme has got the favor by the world tower installer. They are used in prototype or small batch. The installers leave a deep impression on its precision rotation, compact structure, strong bearing capacity and rigidity.

**Construction Machinery**



H-FANG slewing bearing and models of S, SE, WE slewing drive have a wide application on working platform.



The W, WE and SE series products are widely used in different tonnages of truck crane. HPW winch is applied on crane with the advantages of safety, reliability and easy-to-use.



SE25-2 dual worms slewing drive is designed for it specially.



The R series of productions are fitted to slewing bearing as a new design in the field of work platform with cost-effective and reliable.



Slewing drive can drive the hydraulic arm into optional angle to fixed operation.



WE slewing drive is designed for forklift and the tire-hand rotary.

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HSE series of products is widely used in module vehicle with the characteristic of big axial and torque, high transmission efficiency drive is designed for forklift and the tire-hand rotary.



WG series of products can solve the problem of big impacting and running unsteadily for rotating forklift and attachments of FT.



SE series of products and slewing bearing are applied on window cleaning devices.



HSE series of slewing drive is approved in this field.



WE series of products is suitable to the joint rotation of turning arm.



Slewing drive or bearing can be used in container crane.

**Welding Equipment**



The rotation of welding machine is drove by SE series of slewing drives.

**Mining Machinery**



SE14-2 dual worm slewing drives is widely applied on the rotation joint.



The enclosed slewing drives are used in different models of lifting cranes through special processing.



SE WE series of products are widely applied on timber grab, stone

## Medical Technology



Slewing bearing without teeth is approved by CT equipment customers.



SE series of slewing drives have been widely used in the lift platform.



Preload slewing bearing can be used on gamma knife.



The SE series of products are widely used in joint of rotating platform for automated assembly line.

## Automation Equipment



Slewing drives are widely applied on the rotation of joints.



SE slewing drive and slewing bearing are applied on the structure design of revolving stage.



Slewing bearing with inner teeth and high precision is approved on stamping code machine.

