

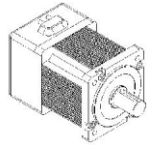
Planetary Reducer Installation Guide

The correct installation, use and maintenance of the reducer, is an important link to ensure the normal operation of machinery and equipment. Therefore, before you install reducer, please strictly in accordance with the following installation related matters, serious assembly.

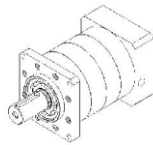
1. Connected with the original motivation:

First Step Confirm the motor and reducer is intact before installation, and strictly check the size of each part of motor and the speed reducer is connected is matched, mainly refers to the convex table size and speed reducer groove size motor and tolerances (Fig. 1).

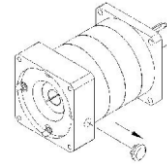
The second step The dustproof reducer flange lateral process hole on the cover, adjust the input shaft of the speed reducer elastic clamping device so that the fastening bolt and the process holes, insert the inner six angle wrench (Figure 2). This procedure is suitable for connecting the elastic clamping mechanism.



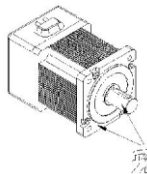
(Figure 1)



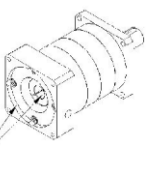
(Figure 2)



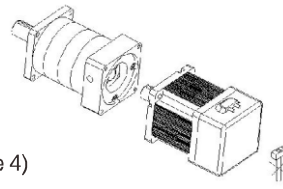
The third step Take the motor shaft key (key connection slightly), connecting part of the output shaft of the motor, the positioning boss and reducer anti rust oil gasoline or zinc sodium water to wipe the net (Figure 3), its purpose is to ensure that the close connections and the flexibility of the operation, and prevent unnecessary wear and tear, the electric machine and reducer natural join. The connection must ensure that the output shaft of the speed reducer and motor input shaft coaxial line, and the two outer flanges parallel, if the shaft is not consistent, will cause the motor shaft breakage or reducer gear wear. In addition, when in installation, prohibited the use of hammer, strike, to prevent axial and radial force is too large damage to the bearing or gear (Figure 4).



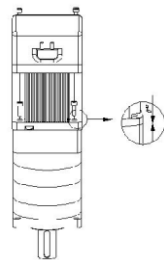
(Figure 3)



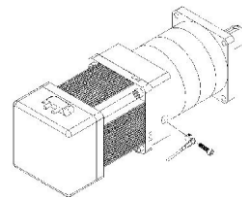
(Figure 4)



The fourth step When connect the motor and reducer, please ensure the motor shaft keyway with the fastening bolt upright. In order to ensure the uniform stress, please make the installation bolt rotating arbitrary diagonal position, but don't tighten, then screw on the other two diagonal position of the mounting bolts finally by tightening the four mounting bolt (Figure 5). Finally, tighten the fastening bolt. High precision fastening bolts with torque wrench according to fixed torque data indicated (see Table 1) were fixed and examined (Figure 6).



(Figure 5)



(Figure 6)

(Table 1)

Screw size	Six hexagon head size	Magnitude of 10.9 screw locking torque		Magnitude of 12.9 screw locking torque	
	(mm)	(Nm)	(In-lbs)	(Nm)	(In-lbs)
M 3*0.5P	2.5	1.8	16	2.1	19
M 4*0.7P	3.0	4.1	37	4.9	44
M 5*0.8P	4.0	8.2	73	9.8	87
M 6*1P	5.0	14	124	17	151
M 8*1.25P	6.0	34	302	41	364
M 10*1.5P	8.0	67	594	80	709
M 12*1.75P	10.0	116	1028	139	1232
M 14*2P	12.0	186	1648	223	1976
M 16*2P	14.0	286	2534	343	3038

2. Connecting with the working machine:

Installation and working machine, attention should be paid to the center axis of transmission, the error may not use the compensation amount is greater than all. On the good service life can be prolonged, and the transmission efficiency is obtained. Install the transmission on the output shaft, are not allowed to use a hammer percussion, usually with inner screw assembly jig and shaft ends, bolt driving piece pressing, damaged or is likely to cause of internal parts of reducer. Best not to use steel fixed coupling, because this kind of coupling installation is improper, will cause unnecessary loads, resulting in bearing early damage, even causing the output shaft fracture.

3. Speed reducer fixed:

Reducer should be firmly installed in the steady reference or support, and the circulation of cooling air flow. Reference or support is not reliable, operation will cause vibration and noise, and urges the bearing and gear damage. When the drive coupling protrusion or a gear, sprocket drive, should be considered with the protection device. After installation, should be installed according to the comprehensive examination order position accuracy, reliability of the fasteners, pressed, after installation should be flexible rotation. Reducer loading is required when the load test run, time shall not be less than 2 hours. Operation should be smooth, no impact, vibration, noise and oil leakage phenomenon, found abnormal should be excluded. If the ambient temperature is too high or too low, the need to change the grease.

4. Installation:

Any installation