SELECTION OF BEARING CLEARANCE

The size of the bearing clearance is directly related to the bearing in the use of noise, vibration, temperature rise, service life and assembly after the mechanical movement effect. Therefore, select the appropriate assembly bearing clearance is essential, it is based on the size of the radial clearance range, from small to large divided into C2, CM, C0, C3, C4 and C5, for the specific reference please see the chart:

Use occasions	Use example	Selection of bearing clearance
Strict requirements to control the noise, vibration, installation with precision, and high positioning	Equipment, instrumentation equipment, Electric motor Low noise, small motor	C2、C0及CM
General load, speed, operating temperature is not high	Transmission machinery, reducer and other general machinery	C0
High temperature and high speed, high service life requirements	Auto generators, engines	C3
The environment temperature is high, and with inappropriate heat dissipation.	Dryer, paper machinery and so on	C3及C4
High temperature and high speed, larger impact load	Vibrating sieve	C4
Inside and outside the circle with interference. When the interference is large, the temperature is high, and there is no heat dissipation	Vibrating road, car rear wheel	C5

In actual use, adjust the selected clearance according to the corresponding situation. The ideal working clearance should be near zero clearance, so the load distribution within the bearing is at the best state, with the longest life.