

Self-lubricating bearing installation environment analysis

Installation of [oil-free bearings](#) must be carried out under dry, clean ambient conditions. The mating surface of the shaft and the outer casing, the end faces of the shoulders, the grooves and the joining surface must be carefully inspected before installation. All mating joint surfaces must be carefully cleaned and burrs removed. The unformed surface of the casting must be cleaned of sand.

Oil-free bearings should be cleaned with gasoline or kerosene before installation, and used after drying, and ensure [good lubrication](#). Oil-free bearings are generally grease-lubricated or oil-lubricated. When using grease lubrication, greases with superior properties such as no impurities, anti-oxidation, rust, and extreme pressure should be used. The grease filling amount is 30%-60% of the volume of the oil-free bearing and the oil-free bearing housing, and should not be excessive. The [double-row tapered roller](#) oil-free bearing with sealing structure and the water pump bearing of the pump shaft are filled with grease, which can be used directly by the user and can not be cleaned.