





## 轴承 Bearing



双列滚针轴承  
Double row needle roller bearings



无油轴承  
Oilless Bearings

我公司全部采用滚针轴承齿轮泵，其与无油轴承齿轮泵的对比，如下：

### (1) 双列滚针轴承齿轮泵：

- 优点： 1 其承载能力大大加强，使用寿命提高30%；  
2 对液压油清洁度要求要低，抗污染能力强。  
缺点： 成本比低油轴承的要高。

### (2) 无油轴承齿轮泵：

- 优点： 1 成本比滚针轴承的要低； 2 噪音相对要小。  
缺点： 1 对液压油清洁度要求很高，抗污染能力低；  
2 使用寿命比双列滚针轴承低；

Our company all use needle roller bearing gear pumps. The comparison with oil-free bearing gear pumps is as follows:

### (1) Double row needle roller bearing gear pump:

- Advantages: 1. Its bearing capacity is greatly enhanced, and its service life is increased by 30%; 2. The requirements for the cleanliness of hydraulic oil are low, and the anti-pollution ability is strong.  
Disadvantages: The cost is higher than that of low oil bearings.

### (2) Oil-free bearing gear pump:

- Advantages: 1. The cost is lower than that of needle roller bearings; 2. The noise is relatively small.  
Disadvantages: 1. High requirements for hydraulic oil cleanliness and low anti-pollution ability; 2. The service life is lower than that of double row needle roller bearings;