

燃油喷射系统零件涂层解决方案

Coating Solutions for Injection System Components

— 摩擦学涂层解决汽车心脏起搏器--燃油喷射系统--耐磨密封问题

Tribology coating for vehicle heart pacemaker, anti-wear sealing for injection system

油气喷射压力越大，发动机输出功率越高，这是提高燃油效率的一个有效途径；并且相关零部件的配合越精密，燃油压力越能得到保障，输出功率越大。这种工况下，不可避免的增加了喷油嘴部件的摩擦磨损，星弧DLC涂层有效改善摩擦磨损问题，使用性能得以显著提升。

High fuel pressure is required in order to achieve higher fuel efficiency and higher power output. Innovation in injection system design places increasing amounts of mechanical and thermal stress on many components. In order to maintain the high precision property of components under such higher fuel pressure, Stararc has developed a family of diamond-like-carbon DLC coatings.

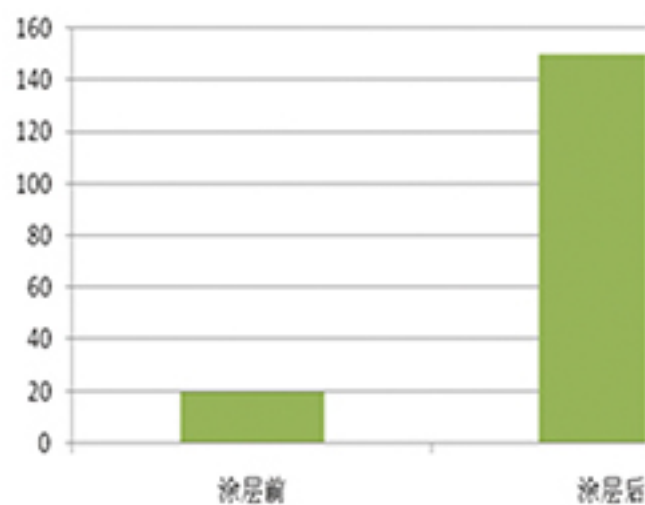
涂层性能特点Coating Functions:

- ◆ 涂层采用多层梯度或者纳米结构
- ◆ 弹性模量高达300GPa以上
- ◆ 涂层硬度大于2700Hv
- ◆ Nano graded coating structure
- ◆ Yong's module- above 30GPa
- ◆ Hardness above 2,700Hv

典型应用Typical Applications:

- ◆ 柴油共轨系统控制阀
- ◆ Control valve in common rail system

控制阀涂层前后使用寿命



喷油压力变化趋势

