CRH 缠绕轴承 Bearings

■ 轴承材料结构

内衬：以PTFE纤维与高强度纤维填充内部润滑剂与高温高强环氧树脂作为滑动层；
衬背：以高强度玻璃纤维增强高温高强环氧树脂作为承载层。

■ **Material structure**

Sliding layer: Continuous wound PTFE and high-strength fibers encapsulated in an internally lubricated, high temperature and high-strength filled epoxy resin.
Backing: Continuous wound glass fiber encapsulated in a high temperature epoxy resin.

轴承技术数据 Technical data

材料性能 Material properties	标准 Standard	单位 Unit	CRH
密度 Density	ISO1183	g/cm^3	1.90
最大吸水率Max. water absorption	ISO62	%	0.1
极限PV值 Max. PV (dry)	ITS026	$N/mm^2 \times m/s$	1.5
摩擦系数 Coefficient of friction	ITS025	μ	0.03~0.12
连续运行温度 Long-term application temperature	ITS029	℃	+200
短时运行温度 Short-term application temperature	ITS029	℃	+260
最低运行温度 Lowest application temperature	ITS029	℃	-196
最高速度 Max. Speed	ITS032	m/s	0.13
抗压强度 Compressive strength	ITS033	MPa	620
最大静载荷 Max. static load	ITS027	MPa	420
最大动载荷 Max. dynamic load	ITS028	MPa	160
线性热膨胀系数(25 ~ 150℃) Linear coef. of thermal Expansion	ISO11359	$10^{-6} \times K^{-1}$	13

*ITS：CSB内部测试标准 CSB company's internal test standards.
**除非特殊说明测试温度为23℃ Test temperatures are 23℃ unless otherwise stated.

典型特征 Typical features

极限载荷摆动与旋转应用
极高耐温应用
极好的耐磨特性
较强的耐腐蚀能力
不推荐加油

Extreme load applications in oscillation and rotation
High temperature applications
Extremely Wear resistance
Strong corrosion resistance
Oil forbidden

典型应用 Typical applications

油缸耳轴
举升机械
起重机械
建筑机械
港口机械

Hydraulic cylinder pivots
Boom lifts
Cranes equipment
Construction machinery arm bushes
Port machinery

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