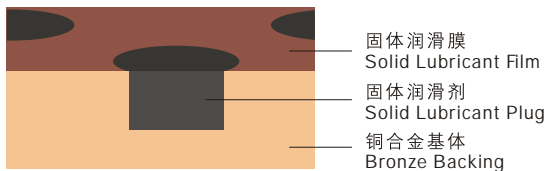


VSB50

铜基固体镶嵌轴承

CAST BRONZE WITH GRAPHITE OILLESS BEARING



铜合金镶嵌式固体润滑剂自润滑轴承，结合了铜合金的耐磨性及固体润滑剂的自润滑性能，使其在使用过程中无需加油维护。产品被广泛用于高载、间歇性或摇摆运动，如汽车生产流水线、水轮机、水库工作/事故门、塑胶机械等。根据使用的工况，VKT可以提供各种类型的铜合金。

This material provides a maintenance free and low friction bearing solution, particularly for high load and intermittent oscillating motion. Solid lubricants within the bronze combine the strength of the bronze with the wear resistance of the graphite. Applications covered are automotive production lines, water industry, dam gates, plastic moulding machinery etc. Different types of bronze alloy can be offered according to the application.

标准 Standard	高力黄铜 CuZn25Al6 Fe3Mn3	锡青铜 CuSn5Zn5Pb5	铝青铜 CuAl10Fe5Ni5	锡青铜 CuSn12	特硬高力黄铜 CuZn25Al6 Fe3Mn3
密度 Density	8	8.9	7.9	8.9	8
硬度 Hardness	≥210	≥70	≥150	≥75	≥235
抗拉强度 N/mm ² Tensile Strength	≥750	≥250	≥500	≥270	≥800
屈服强度 N/mm ² Yield Strength	≥450	≥90	≥260	≥150	≥450
延伸率% Elongation	≥12	≥13	≥10	≥5	≥8
线胀系数 Coefficient of linear expansion	1.9 · 10 ⁻⁵ /℃	1.8 · 10 ⁻⁵ /℃	1.6 · 10 ⁻⁵ /℃	1.8 · 10 ⁻⁵ /℃	1.9 · 10 ⁻⁵ /℃
使用温度 Temp.	-40 ~ 300 ℃	-40 ~ 400 ℃	-40 ~ 400 ℃	-40 ~ 400 ℃	-40 ~ 300 ℃
最大动承载 N/mm ² Max Dynamic load	100	60	50	70	120
最大线速度(干)N/mm ² Max Speed (Dry)	15	10	20	10	15
最大PV (润滑) Max PV (Lubrication) N/mm ² · m/min	200	60	60	80	200
压缩永久变形量 300 N/mm ²	<0.01	<0.05	<0.04	<0.05	<0.005