

Requirements	Influencing factor	Solution
Load capacity ↑ (specific load per unit area)	Strength and hot hardness, film thickness ↓	Steel backing, hard Al and Cu alloy, sputter bearing
Running-in behavior	Welding tendency, Young's-modulus, structure, hot hardness	Soft Pb, Sn and Al, sliding layer alloy
Adaptability	Young's-modulus and yield point	Plastic deformation of bearing material or running-in layer
Dry running properties (seizing disposition)	Welding tendency, Young's-modulus, structure, hot hardness	Hard Al and Cu alloy with Pb and Sn content, groove bearing
Wear resistance and fatigue	Hardness, ductility and welding tendency	Hard Al and Cu alloy, groove or sputter bearing
Embedding capability	Young's-modulus and hot hardness	Soft Pb, Sn and Al sliding layer alloy
Running speed ↑	Hardness difference between bearing and shaft ↑	1:3 up to 1:10
Corrosion resistance	Bearing material	Sn alloy or flash