

Conventional materials used for KIHOI bearing and bearing accessories are listed as below, while new materials are used for customized bearing products, and for new applications created from time to time.

52100 is the most popular chrome steel to fabricate bearings. However, some industrial bearings of large size, they work in conditions of higher temperature, serious impact. Other steel alloys like 100CrMn6, 3316 are more suitable materials for choice.

Bearing type	Rings	Ball	Roller	Cage	Spacer	Sealing	Housing
Deep groove ball bearing	52100	52100	-	Steel/brass	-	NBR/steel	-
Angular contact ball bearing	52100	52100	-	Steel/brass/PA/PF	-	-	-
Self-aligning ball bearing	52100	52100	-	Steel/brass/PA	-	-	-
Thrust ball bearing	52100	52100	-	Steel/brass/PA	-	-	-
Spherical roller bearing	52100	-	52100	Steel/brass	-	-	-
Tapered roller bearing	52100	-	52100	Steel/PA	-	-	-
Cylindrical roller bearing	52100	-	52100	Steel/brass	-	-	-
Needle roller bearing	52100	-	52100	Steel/PA	-	-	-
Stainless steel ball bearing	304/440	304/440	-	304/316	-	NBR/304/316	-
Spherical plain bearing	52100/304/440	-	-	-	-	NBR	-
Ceramic ball bearing	ZrO ₂ /Si ₃ N ₄	ZrO ₂ /Si ₃ N ₄	-	-	ZrO ₂ /Si ₃ N ₄	-	-
Pillow block bearing unit	52100/304/440	52100/304/440	52100	Steel/304/316/brass	-	Steel/NBR/304/316	Cast iron/ plastic

Mounted bearing with flange housing	52100/304/440	52100/304/440	-	Steel/304/316	-	Steel/NBR/304/316	Cast iron/plastic
Mounted bearing with take-up housing	52100/304/440	52100/304/440	-	Steel/304/316	-	Steel/NBR/304/316	Cast iron/plastic
Thin section bearing	52100	52100	-	Steel/brass/PA/PF	Brass/PA	NBR	-
Slewing bearing (light duty)	52100/aluminum alloy	52100	-	-	Brass/PA	NBR	-
Slewing bearing (heavy duty)	4142/1053	52100	52100	-	PA	NBR	-