

Sheave Bearings

This bearing type is designed as a double-row, full complement Cylindrical Roller bearing with ribs on both inner and outer rings. These bearings will sustain heavy radial load, and will handle moment load and will also take some axial load. Sheave bearings are suitable for a wide variety of uses in addition to sheaves. They are used for hoisting drum and wheel applications, and other applications which operate under heavy load at low speed.

Bearing series	Description
E50, E50...NR, E50...NRNT	This bearing series is designed for sheave application. It is a sealed (shield or seal) bearing and has a surface coating. The E50 series is made with two shields. The E50...NR and E50...NRNT have two snap rings in the outer ring. Series E50...NR is made with two shields, while the series E50...NRNT is made with two rubber seals.
RB48, RC48 RB49, RC49	These bearings are designed for general use. When mounting two or more bearings on an axle, the RB type should be used as a fixed side bearing and the RC type used as a free side bearing.



**Deviation of bore diameter and bearing width**Unit : μ m

Nominal bearing bore diameter d (mm)		Deviation of d		Deviation of B	
Over	Incl.	High	Low	High	Low
30	50	0	-12	0	-120
50	80	0	-15	0	-150
80	120	0	-20	0	-200
120	150	0	-25	0	-250
150	180	0	-25	0	-250
180	250	0	-30	0	-300
250	315	0	-35	0	-350
315	400	0	-40	0	-400
400	500	0	-45	0	-450

Note: Tolerances are values before coating

Deviation of outside diameter of outer ringUnit : μ m

Nominal bearing outside diameter D (mm)		Deviation of D	
Over	Incl.	High	Low
30	50	—	—
50	80	0	-13
80	120	0	-15
120	150	0	-18
150	180	0	-25
180	250	0	-30
250	315	0	-35
315	400	0	-40
400	500	0	-45
500	630	0	-50
630	800	0	-75

Note: Tolerances are values before coating





Radial Clearance of Series 5000

Unit : μm

Nominal bearing outside diameter D (mm)		Standard radial clearance	
Over	Incl.	Low	High
	70	35	70
70	80	40	75
80	100	45	90
100	125	55	105
125	150	65	115
150	180	65	120
180	240	65	130
240	280	70	135
280	310	70	140
310	340	75	150
340	360	90	165
360	420	100	180
420	460	110	195
460	520	125	215
520	600	140	235
600	650	155	275
650	700	180	300

Radial Clearance of Series 4800/4900

Unit : μm

Nominal bearing outside diameter D (mm)		Standard radial clearance	
Over	Incl.	Low	High
	70	40	75
70	80	40	75
80	100	45	90
100	125	55	105
125	150	65	115
150	180	65	120
180	240	65	130
240	280	70	135
280	310	70	140
310	340	75	150
340	360	90	165
360	420	100	180
420	500	110	195