

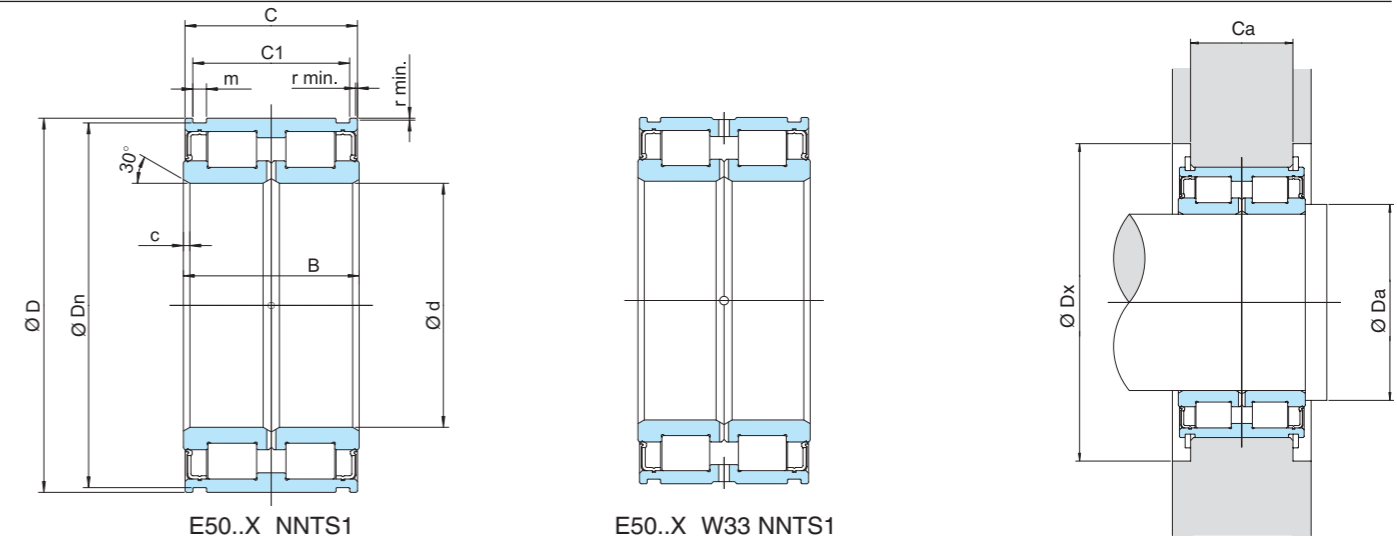
# Sheave Bearings

**Full complement cylindrical roller bearings**



## Cylindrical roller bearings with snap ring grooves

- **Basic design:** Full complement. Double row. Sealed on both sides
- **Highest dynamic & static load ratings:**
  - Maximum utilization of bearing section provides maximum load ratings.
- **Superior sealing capability:**
  - Unique design rubber contact seal prevents dust and water invasion.
- **Location:** Easy to locate axially due to snap rings on both sides.
- **Lubrication:**
  - Lubricate with a lithium soap-based grease containing an EP additive.
- **Relubrication:**
  - Lubricate through lubrication hole and grooves in inner ring.
  - If relubrication holes in outer ring is required, the bearing with suffix 'W33' should be selected.
- **Operating temperature:** Suitable for -30 to +120° C
- **Application:** Highly suitable in rope sheaves



Designations		Dimensions [mm]										Basic load ratings [kN]		Limiting speed [min <sup>-1</sup> ]	Mounting dimensions [mm] <sup>1)</sup>			Mass. (Ref.) [kg]	Suitable snap rings <sup>2)</sup>	
Lubrication holes in inner ring	Lubrication holes in outer & inner ring	d	D	B	C	r(min)	c	m	Dn	C <sub>1</sub>	Dynamic Cr	Static Cor	da (min)		Dx (min)	Ca <sub>0-0,2</sub>	WRE		DIN 471	
E5006X NNTS2	E5006X W33 NNTS2	30	55	34	33	0,6	1,0	2,1	52,8	28,2	66	94	2950	36	65	25	0,35	WRE55	55x2	
E5007X NNTS1	E5007X W33 NNTS1	35	62	36	35	0,6	1,0	2,1	59,8	30,2	73	99	2600	41	72	27	0,45	WRE62	62x2	
E5008X NNTS1	E5008X W33 NNTS1	40	68	38	37	0,6	1,5	2,7	65,8	32,2	88	125	2300	46	80	28	0,55	WRE68	68x2.5	
E5009X NNTS1	E5009X W33 NNTS1	45	75	40	39	0,6	1,5	2,7	72,8	34,2	96	144	2100	51	87	30	0,70	WRE75	75x2.5	
E5010X NNTS1	E5010X W33 NNTS1	50	80	40	39	0,6	1,5	2,7	77,8	34,2	100	158	1900	56	92	30	0,75	WRE80	80x2.5	
E5011X NNTS1	E5011X W33 NNTS1	55	90	46	45	0,6	2,0	3,2	87,4	40,2	118	193	1700	63	104	35	1,15	WRE90	90x3	
E5012X NNTS1	E5012X W33 NNTS1	60	95	46	45	0,6	2,0	3,2	92,4	40,2	124	208	1600	68	109	35	1,22	WRE95	95x3	
E5013X NNTS1	E5013X W33 NNTS1	65	100	46	45	0,6	2,0	3,2	97,4	40,2	128	224	1500	73	114	35	1,30	WRE100	100x3	
E5014X NNTS1	E5014X W33 NNTS1	70	110	54	53	0,6	2,0	4,2	107,1	48,2	171	285	1400	78	124	43	1,87	WRE110	110x4	
E5015X NNTS1	E5015X W33 NNTS1	75	115	54	53	0,6	2,0	4,2	112,1	48,2	196	325	1300	82	129	43	1,95	WRE115	115x4	
E5016X NNTS1	E5016X W33 NNTS1	80	125	60	59	0,6	2,0	4,2	122,1	54,2	251	430	1200	88	142	49	2,65	WRE125	125x4	
E5017X NNTS1	E5017X W33 NNTS1	85	130	60	59	0,6	2,0	4,2	127,1	54,2	257	445	1150	93	147	49	2,80	WRE130	130x4	
E5018X NNTS1	E5018X W33 NNTS1	90	140	67	66	0,6	2,5	4,2	137	59,2	305	540	1100	100	157	54	3,75	WRE140	140x4	
E5019X NNTS1	E5019X W33 NNTS1	95	145	67	66	0,6	2,5	4,2	142	59,2	315	560	1050	105	162	54	3,90	WRE145	145x4	
E5020X NNTS1	E5020X W33 NNTS1	100	150	67	66	0,6	2,5	4,2	147	59,2	330	585	1000	110	167	54	4,05	WRE150	150x4	
E5022X NNTS1	E5022X W33 NNTS1	110	170	80	79	1,0	3,0	4,2	167	70,2	395	695	900	122	187	65	6,60	WRE170	170x4	
E5024X NNTS1	E5024X W33 NNTS1	120	180	80	79	1,0	3,0	4,2	176	71,2	410	750	850	132	202	65	7,10	WRE180	180x4	
E5026X NNTS1	E5026X W33 NNTS1	130	200	95	94	1,0	3,0	4,2	196	83,2	540	1000	750	142	222	77	10,5	WRE200	200x4	
E5028X NNTS1	E5028X W33 NNTS1	140	210	95	94	1,0	3,0	5,2	206	83,2	610	1130	700	151	232	77	11,5	WRE210	210x5	
E5030X NNTS1	E5030X W33 NNTS1	150	225	100	99	1,0	3,5	5,2	221	87,2	710	1290	650	162	251	81	14,5	WRE225	225x5	
E5032X NNTS1	E5032X W33 NNTS1	160	240	109	108	1,5	3,5	5,2	236	95,2	740	1390	650	174	266	89	17,0	WRE240	240x5	
E5034X NNTS1	E5034X W33 NNTS1	170	260	122	121	1,5	3,5	5,2	254	107,2	960	1810	600	181	290	99	23,5	WRE260	260x5	
E5036X NNTS2	E5036X W33 NNTS2	180	280	136	135	1,5	3,5	5,2	274	118,2	1140	2250	550	194	310	110	31,0	WRE280	280x5	
E5038X NNTS2	E5038X W33 NNTS2	190	290	136	135	1,5	3,5	5,2	284	118,2	1230	2460	500	204	320	110	32,0	WRE290	290x5	
E5040X NNTS1	E5040X W33 NNTS1	200	310	150	149	1,5	3,5	6,3	304	128,2	1310	2650	500	214	345	120	41,5	WRE310	310x6	
E5044X NNTS2	E5044X W33 NNTS2	220	340	160	159	1,5	4,0	6,3	334	138,2	1590	3200	450	236	375	130	53,5	WRE340	340x6	
E5048X NNTS2	E5048X W33 NNTS2	240	360	160	159	1,5	4,0	6,3	354	138,2	1630	3500	400	256	395	130	57,5	WRE360	360x6	
E5052X NNTS2	E5052X W33 NNTS2	260	400	190	189	2,0	5,0	6,3	394	162,2	2440	5000	400	280	435	154	86,5	WRE400	400x6	
E5056X NNTS2	E5056X W33 NNTS2	280	420	190	189	2,0	5,0	7,3	413	163,2	2600	5450	350	300	462	154	93,0	WRE420	420x7	
E5060X NNTS2	E5060X W33 NNTS2	300	460	218	216	2,0	5,0	7,3	453	185,2	3150	6700	350	320	502	176	131	WRE460	460x7	

**Note:** <sup>1)</sup> For snap rings series WRE. <sup>2)</sup> Snap rings must be ordered separately. Snap ring series WRE are available from Nachi.

## Tolerances

### Deviation of bore diameter and bearing width Unit: µm

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	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

### Deviation of outside diameter of outer ring Unit: µm

Nominal bearing outside diameter D (mm)		Deviation of D	
Over	Incl.	Low	High
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

## Radial Internal Clearance

Unit: µm

Nominal bearing outside diameter D (mm)		Radial internal 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

## Conversion

NACHI		INA	SKF	FAG
without W33	with W33			
E50..X NNTS1	E50..X W33 NNTS1	SL04 50.. PP	NNF50.. ADA-2LSV	NNF50..B(C).2LS.V

W33 = Lubrication groove and holes on outer and inner ring

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