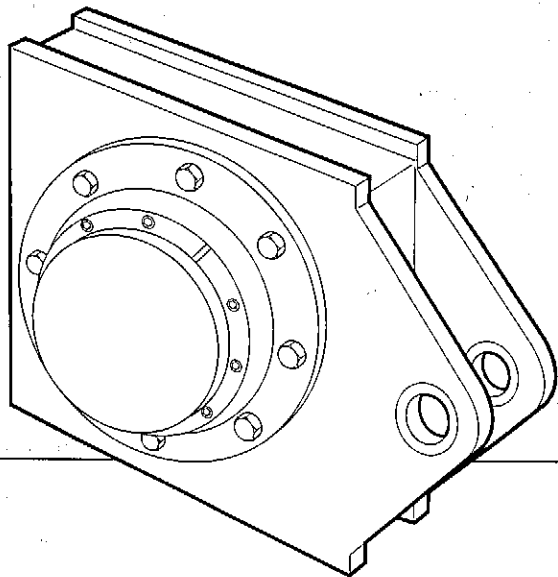


THD take-up housings

Extracted from SKF Cat 4005E



Data summary:

- Non-split take-up housings.
- Suitable for spherical roller bearings.
- Shaft diameter range 50–530 mm.
- Adapter sleeve mounting.
- Grease lubrication.
- Cast steel (THDS). Also available in high-grade grey cast iron (THDC) or spheroidal graphite cast iron (THDD).
- Labyrinth seals.
- Special design suitable for belt conveyors.

THD housings are non-split bearing housings for use with spherical roller bearings on adapter sleeves and plain or stepped cylindrical shafts. They are available for shaft diameters from 50 to 530 mm, and depending on requirements, can be supplied for locating bearing arrangements (F design) or non-locating bearing arrangements (L design).

Materials

As standard, the housings are manufactured in cast steel (THDS). If required, housings can be made from grey cast iron (THDC) or spheroidal graphite cast iron (THDD).

Seals

The THD housings are fitted with labyrinth seals. The housings can be supplied with end covers (design A) or for through shafts (design B).

Lubrication

THD housings are designed for grease lubrication. The recommended initial grease fill for each housing is shown in the housing tables.

Mounting

The bearings are normally mounted on adapter sleeves. Adapter sleeves (designation OH .. H) for oil injection mounting are recommended for bearings with tapered bore from $d = 200$ mm. If required, housings can be supplied for bearings with cylindrical bore.

THD take-up housings

Designation system

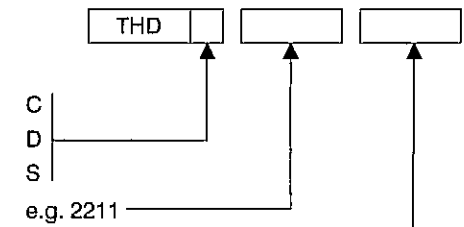
The designations of the housings are made up of the basic designation denoting the basic design, material and size plus supplementary designations covering design variants.

Basic designation

Basic design:

Material: Housing of
– grey cast iron
– spheroidal graphite cast iron
– cast steel

Size designation:



Supplementary designations

Housing for bearing with adapter sleeve for plain cylindrical shaft

Housing for bearing with adapter sleeve for stepped cylindrical shaft

Housing for shaft end, with end cover

Housing for through shaft

Housings for non-locating bearing

Housing for locating bearing

No symbol

C

A

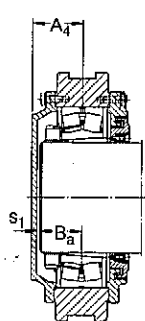
B

L

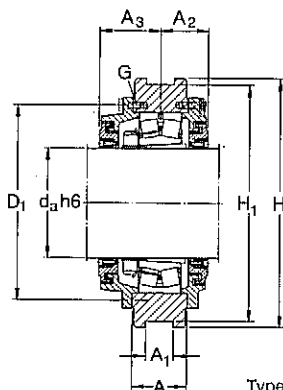
F

For combinations the symbols are written in the same order as presented above.

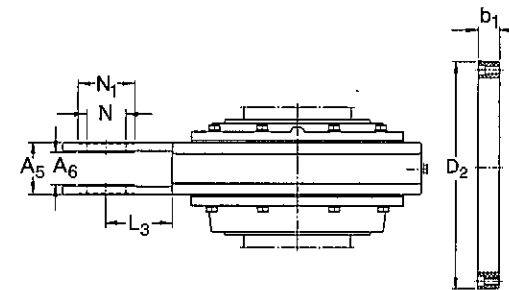
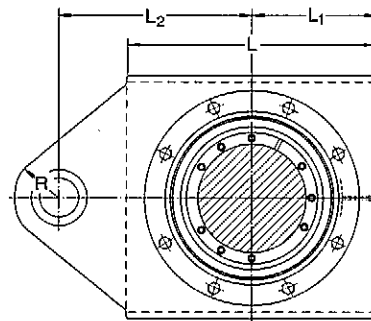
**THD take-up housings
for spherical roller bearings with adapter sleeve
on plain cylindrical shafts**
d_a 200–530 mm



Type AL
Non-locating bearing
Housing for shaft end



Type BF
Locating bearing
Housing for through shaft

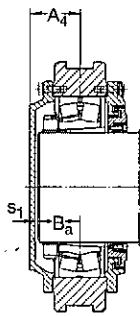


Shaft diameter d _a	Housing Dimensions										D ₁	H	H ₁	L	L ₁	L ₂	L ₃	N	N ₁	R	s ₁	G	Designation Housing of cast steel
	A	A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	B _a															
50	60	34	49	-	38	42	22	27	115	150	135	150	75	105	30	20	40	30	5	M 8	THDS 2211		
55	66	43	50	-	41	50	26	30	125	165	150	165	82,5	120	37,5	25	50	35	5	M 8	THDS 2212		
60	78	53	50	-	53	66	30	35	135	180	155	160	80	145	65	30	60	40	11	M 8	THDS 2213		
70	78	53	62	70	49	66	30	36	155	200	175	180	90	155	65	30	60	40	6	M 8	THDS 2216		
80	78	53	67	-	63	66	30	40	180	230	200	210	105	170	65	30	60	40	16	M 8	THDS 2218		
90	69	40	76	92	70	70	36	45	195	250	220	235	117,5	185	67,5	35	70	40	18	M 8	THDS 2220		
100	78	53	85	97	75	76	40	50	215	270	240	255	125	200	70	40	75	45	18	M 8	THDS 2222		
90	53	91	103	76	100	44	60		230	300	270	270	135	195	60	50	95	60	9	M 12	THDS 3222		
110	78	53	84	99	72	76	40	55	230	290	260	275	135	210	70	40	75	45	10	M 8	THDS 2224		
95	53	93	108	78	100	44	64		245	310	280	290	145	205	60	50	95	60	7	M 12	THDS 3224		
115	100	63	103	108	79	112	52	66	260	335	305	300	155	220	75	60	110	70	5	M 12	THDS 3226		
125	83	53	80	102	90	74	40	62	275	330	300	315	155	230	70	40	70	45	20	M 12	THDS 2228		
110	63	108	118	88	112	52	72		290	360	330	330	170	235	75	60	90	70	8	M 16	THDS 3228		
135	85	45	77,5	98,5	74,5	150	60	56	245	320	290	280	140	235	90	50	95	70	10	M 10	THDS 3030		
120	73	113	123	93	126	62	78		305	385	355	360	180	260	80	70	120	80	7	M 16	THDS 3230		
140	116	74	101	126	101	132	62	75	310	370	340	370	185	350	160	61	110	90	18	M 12	THDS 3132		
130	83	118	133	98	126	62	84		330	400	370	380	190	270	80	70	120	80	6	M 16	THDS 3232		
150	102	63	88	113	93	112	52	66	280	360	330	325	165	255	90	45	100	70	20	M 10	THDS 3034		
120	63	113	136	100	122	62	78		330	380	350	375	190	395	160	60	160	80	17	M 12	THDS 3134		
160	140	93	133	148	108	140	72	90	360	450	410	420	210	300	90	80	140	90	10	M 16	THDS 3236		
170	112	73	101	126	96	165	90	72	315	390	360	380	195	350	130	45	120	70	16	M 12	THDS 3038		
180	125	83	107	133	108	125	62	78	340	430	400	390	200	275	85	70	120	80	22	M 12	THDS 3040		
138	90	115	148,5	120	128	62	95		380	440	420	440	220	300	80	60	110	80	15	M 16	THDS 3140		
165	103	138	158	118	140	72	100		405	500	460	470	235	325	90	80	140	90	10	M 16	THDS 3240		

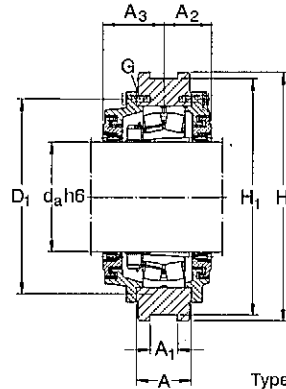
Shaft diameter d _a	Appropriate bearing	adapter sleeve	Masses Housing type		Adapter ring Designation	Dimensions		Grease quantity ¹⁾	
			A	B		D ₂	b ₁	Initial fill A	Housing type B
mm	-	-	kg		-	mm		kg	
50	22211 EK	H 311	10,0	-	PSBD 50	68	15	0,07	-
55	22212 EK	H 312	13,0	-	PSBD 55	73	15	0,08	-
60	22213 CCK	H 313	16,0	-	PSBD 60	82	15	0,10	-
70	22216 EK	H 316	22,0	23,0	PSBD 70	98	18	0,20	0,18
80	22218 EK	H 318	29,0	-	PSBD 80	108	18	0,25	-
90	22220 EK	H 320	35,0	37,0	PSBD 90	118	18	0,40	0,35
100	22222 EK	H 322	40,0	45,0	PSBD 100	128	18	0,55	0,50
90	23222 CCK/W33	H 2322	70,0	74,0	PSBD 100	128	18	0,55	0,50
110	22224 EK	H 3124	45,0	48,0	PSBD 110	138	18	0,60	0,55
95	23224 CCK/W33	H 2324	75,0	80,0	PSBD 110	138	18	0,75	0,70
115	23226 CCK/W33	H 2326	80,0	85,0	PSBD 115	143	18	0,85	0,80
125	22228 CCK/W33	H 3128	56,0	61,0	PSBD 125	153	18	0,85	0,75
110	23228 CCK/W33	H 2328	95,0	101	PSBD 125	153	18	1,05	1,00
135	23030 CCK/W33	H 3030	45,0	52,0	PSBD 135	170	20	0,60	0,55
120	23230 CCK/W33	H 2330	118	126	PSBD 135	170	20	1,30	1,25
140	23132 CCK/W33	H 3132	136	146	PSBD 140	175	20	1,20	1,10
130	23232 CCK/W33	H 2332	140	150	PSBD 140	175	20	1,55	1,50
150	23034 CCK/W33	H 3034	76,0	83,0	PSBD 150	185	20	0,90	0,75
120	23134 CCK/W33	H 3134	150	184	PSBD 150	185	20	1,35	1,25
160	23236 CCK/W33	H 2336	165	178	PSBD 160	195	20	2,10	2,00
170	23038 CCK/W33	H 3038	135	141	PSBD 170	205	20	1,15	1,00
180	23040 CCK/W33	H 3040	160	167	PSBD 180	215	20	1,45	1,20
138	23140 CCK/W33	H 3140	175	190	PSBD 180	215	20	2,30	2,00
165	23240 CCK/W33	H 2340	270	290	PSBD 180	215	20	2,60	2,50

¹⁾ Based on 100 % filling

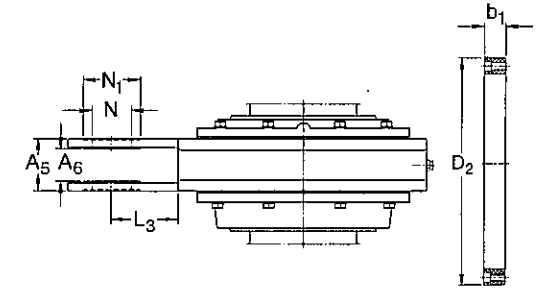
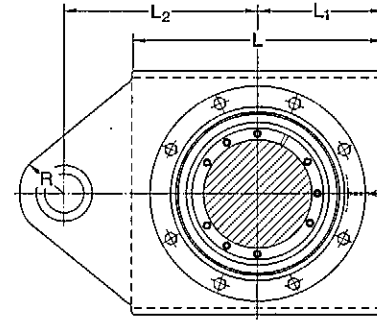
**THD take-up housings
for spherical roller bearings with adapter sleeve
on plain cylindrical shafts**
d_a 200–530 mm



Type AL
Non-locating bearing
Housing for shaft end



Type BF
Locating bearing
Housing for through shaft



Shaft diameter d _a	Housing Dimensions											H	H ₁	L	L ₁	L ₂	L ₃	N	N ₁	R	s ₁	G	Designation Housing of cast steel
	A	A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	B _a	D ₁														
200	120	65	107	142	107	200	70	80	370	480	440	430	210	325	100	60	100	80	17	M 16	THDS 3044		
	150	103	135	160	135	144	74	100	420	510	480	470	235	530	260	100	175	120	25	M 16	THDS 3144		
	175	103	148	183	133	240	173	112	445	540	500	520	260	575	245	100	175	150	11	M 20	THDS 3244		
220	152	65	148	178	138	215	123	106	455	540	500	520	260	515	250	100	250	150	22	M 20	THDS 3148		
	190	103	148	188	148	240	173	122	490	580	540	560	280	600	250	100	175	150	16	M 20	THDS 3248		
240	175	80	152	187	152	225	135	118	490	570	540	550	275	565	270	100	250	150	24	M 20	THDS 3152		
	205	103	167	208	158	240	173	132	540	610	570	590	305	615	220	100	200	150	16	M 20	THDS 3252		
260	210	123	178	218	163	240	173	135	555	650	610	630	315	630	220	100	175	150	16	M 24	THDS 3256		
280	195	103	165	210	170	240	173	125	550	650	610	625	312	630	250	100	240	150	35	M 24	THDS 3160		
	230	123	182	222	187	240	173	142	600	670	630	670	335	650	220	100	175	150	33	M 24	THDS 3260		
300	210	123	177	212	187	240	170	135	590	670	630	665	340	650	230	100	175	160	40	M 24	THDS 3164		
	250	123	192	237	187	300	213	152	640	710	670	710	355	725	275	110	185	200	21	M 24	THDS 3264		
320	220	150	197	242	237	300	180	155	630	740	700	740	370	720	310	120	240	200	70	M 24	THDS 3168		
	265	123	202	272	237	300	213	175	680	750	700	750	375	750	285	110	185	200	47	M 24	THDS 3268		
340	275	123	227	282	247	300	213	180	710	790	740	790	395	765	275	110	185	200	51	M 24	THDS 3272		
360	230	120	202	257	254	300	200	185	680	790	740	750	375	750	320	110	230	200	73	M 30	THDS 3176		
	295	123	232	297	257	300	213	186	745	820	780	810	420	780	310	110	230	200	55	M 30	THDS 3276		
380	300	123	242	307	257	300	213	196	790	870	820	870	435	800	270	110	185	200	45	M 30	THDS 3280		
400	315	123	252	317	267	300	213	212	835	925	860	925	463	825	262	110	185	200	39	M 30	THDS 3284		
530	420	143	250	370	-	208	128	-	1 000	1 140	1 080	1 140	570	770	200	125	200	160	-	M 30	THDS 41/560		

Shaft diameter d _a	Appropriate bearing	adapter sleeve	Masses Housing type		Adapter ring Designation	Dimensions		Grease quantity ¹⁾ Initial fill	
			A	B		D ₂	b ₁	Housing type A	Housing type B
200	23044 CCK/W33	OH 3044 H	200	220	PSBD 200	246	25	1,75	1,50
	23144 CCK/W33	OH 3144 H	240	255	PSBD 200	246	25	2,90	2,50
	23244 CCK/W33	OH 2344 H	380	400	PSBD 200	246	25	3,40	3,25
220	23148 CCK/W33	OH 3148 H	310	360	PSBD 220	266	25	3,40	3,00
	23248 CCK/W33	OH 2348 H	460	485	PSBD 220	266	25	4,25	4,00
240	23152 CCK/W33	OH 3152 H	400	460	PSBD 240	286	25	4,40	3,75
	23252 CACK/W33	OH 2352 H	545	580	PSBD 240	286	25	5,05	4,75
260	23256 CACK/W33	OH 2356 H	590	630	PSBD 260	306	25	5,50	5,00
280	23160 CCK/W33	OH 3160 H	540	580	PSBD 280	326	25	6,00	5,15
	23260 CACK/W33	OH 3260 H	678	730	PSBD 280	326	25	7,00	6,25
300	23164 CCK/W33	OH 3164 H	650	690	PSBD 300	350	30	7,50	6,40
	23264 CACK/W33	OH 3264 H	800	860	PSBD 300	350	30	8,15	7,25
320	23168 CCK/W33	OH 3168 H	760	880	PSBD 320	370	30	10,0	8,20
	23268 CACK/W33	OH 3268 H	920	1 000	PSBD 320	370	30	9,85	8,75
340	23272 CAK/W33	OH 3272 H	1 050	1 120	PSBD 340	390	30	12,0	10,5
360	23176 CAK/W33	OH 3176 H	890	1 000	PSBD 360	410	30	13,8	10,8
	23276 CAK/W33	OH 3276 H	1 200	1 280	PSBD 360	410	30	14,5	12,5
380	23280 CAK/W33	OH 3280 H	1 480	1 580	PSBD 380	430	30	18,0	16,0
400	23284 CAK/W33	OH 3284 H	1 880	1 980	PSBD 400	450	30	23,0	20,5
530	241/560 ECK30/W33	3364 95 A	-	2 400	PSBD 530	610	40	-	15,0

¹⁾ Based on 100 % filling