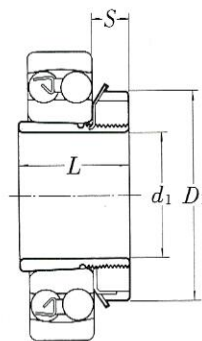


ADAPTERS

Series H 2
HE 2
HS 2
HA 2



Adapter Numbers ¹⁾				Dimensions													
H	HE	HS	HA	Bore (Shaft) Dia				d_1			L		D_1		S		
				H	HE	HS	HA										
				mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
H 204	—	—	—	17	0.669	—	—	—	—	—	—	24	0.945	32	1.260	7	0.276
H 205	HE 205	HS 205	—	20	0.787	19.050	3/4	22.225	7/8	—	—	26	1.024	38	1.496	8	0.315
H 206	HE 206	HS 206	HA 206	25	0.984	25.400	1	22.225	7/8	23.812	15/16	27	1.063	45	1.772	8	0.315
H 207	—	HS 207	HA 207	30	1.181	—	—	28.575	1 1/8	30.162	1 3/16	29	1.142	52	2.047	9	0.354
H 208	HE 208	HS 208	HA 208	35	1.378	31.750	1 1/4	34.925	1 3/8	33.338	1 5/16	31	1.220	58	2.283	10	0.394
H 209	HE 209	HS 209	HA 209	40	1.575	38.100	1 1/2	41.275	1 5/8	36.512	1 7/16	33	1.299	65	2.559	11	0.433
H 210	HE 210	HS 210	HA 210	45	1.772	44.450	1 3/4	41.275	1 5/8	42.862	1 11/16	35	1.378	70	2.756	12	0.472
H 211	HE 211 X ²⁾	HS 211	HA 211	50	1.969	50.800	2	47.625	1 7/8	49.212	1 15/16	37	1.457	75	2.953	12	0.472
H 212	—	HS 212	—	55	2.165	—	—	53.975	2 1/8	—	—	38	1.496	80	3.150	13	0.512
H 213	HE 213	HS 213	HA 213	60	2.362	57.150	2 1/4	60.325	2 3/8	55.562	2 3/16	40	1.575	85	3.346	14	0.551
H 215	HE 215	—	HA 215	65	2.559	63.500	2 1/2	—	—	61.912	2 7/16	43	1.693	98	3.858	15	0.591
H 216	HE 216	—	HA 216	70	2.756	69.850	2 3/4	—	—	68.262	2 11/16	46	1.811	105	4.134	17	0.669
H 217	HE 217	—	HA 217	75	2.953	76.200	3	—	—	74.612	2 15/16	50	1.969	110	4.331	18	0.709
H 218	HE 218	—	HA 218	80	3.150	82.550	3 1/4	—	—	80.962	3 3/16	52	2.047	120	4.724	18	0.709
H 219	HE 219	—	—	85	3.346	82.550	3 1/4	—	—	—	—	55	2.165	125	4.921	19	0.748
H 220	HE 220	—	HA 220	90	3.543	88.900	3 1/2	—	—	87.312	3 7/16	58	2.283	130	5.118	20	0.787
H 222	HE 222	—	—	100	3.937	101.600	4	—	—	—	—	63	2.480	145	5.709	21	0.827

1) Adapter numbers apply to adapter sleeve, lock-nut, and lock-washer assemblies.

2) The thread size of HE 211 X is M 55×1.5 and differs from the standard (M 55×2.0).

Tolerances for Adapter Sleeves

Bearing Bore Diameter Numbers ($\frac{\text{Bore Dia.}}{5}$)	Bore Diameter d_1 Deviation		Length L Deviation	
	mm	inch	mm	inch
04 ~ 10	± 0.05	± 0.0020	± 0.25	± 0.010
11 ~ 16	± 0.06	± 0.0024	± 0.25	± 0.010
17 ~ 24	± 0.07	± 0.0028	± 0.25	± 0.010
26 ~ 36	± 0.08	± 0.0031	± 0.25	± 0.010
38 ~ 48	± 0.09	± 0.0035	± 0.25	± 0.010
52 ~ 60	± 0.12	± 0.0047	± 0.50	± 0.020
64 ~ 80	± 0.15	± 0.0059	± 0.50	± 0.020

Approx Weight ³⁾		Part Numbers for Adapter Components ⁴⁾			Corresponding Bearing Numbers ⁵⁾
kg	lb	Adapter Sleeves ⁶⁾	Lock-nuts	Lock-washers	Self-Aligning Ball Bearings
0.045	0.099	A 204	AN 04	AW 04	1204 K
0.065	0.143	A 205	AN 05	AW 05	1205 K
0.100	0.220	A 206	AN 06	AW 06	1206 K
0.125	0.276	A 207	AN 07	AW 07	1207 K
0.175	0.385	A 208	AN 08	AW 08	1208 K
0.225	0.495	A 209	AN 09	AW 09	1209 K
0.275	0.605	A 210	AN 10	AW 10	1210 K
0.305	0.670	A 211	AN 11	AW 11	1211 K
0.365	0.805	A 212	AN 12	AW 12	1212 K
0.400	0.880	A 213	AN 13	AW 13	1213 K
0.700	1.54	A 215	AN 15	AW 15	1215 K
0.850	1.87	A 216	AN 16	AW 16	1216 K
1.00	2.20	A 217	AN 17	AW 17	1217 K
1.15	2.54	A 218	AN 18	AW 18	1218 K
1.35	2.98	A 219	AN 19	AW 19	1219 K
1.45	3.20	A 220	AN 20	AW 20	1220 K
1.95	4.30	A 222	AN 22	AW 22	1222 K

3) Weight includes adapter sleeve, lock-nut, and lock-washer.

4) For dimensions of adapter components, see pages 28, 29, 34, 35.

5) For corresponding bearings listed above, refer to **Ball Bearings** (Pr. No. 2110).

6) The adapter sleeve numbers listed above correspond to the H 2 series adapter numbers.

The adapter sleeve numbers for the HE 2, HS 2, and HA 2 series are AE 2, AS 2, and AA 2 respectively.

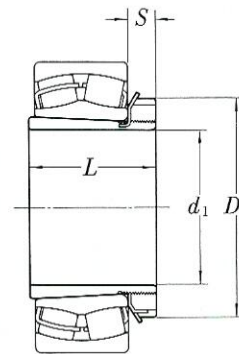
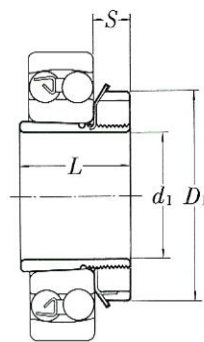
ADAPTERS

Series H 3

HE 3

HS 3

HA 3



Adapter Numbers ¹⁾				Dimensions											
H	HE	HS	HA	Bore (Shaft) Dia		d ₁		L		D ₁		S			
				H	HE	HS	HA	H	HE	HS	HA	H	HE	HS	HA
				mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
H 304	—	—	—	17	0.669	—	—	—	—	—	—	28	1.102	32	1.260
H 305	HE 305	HS 305	—	20	0.787	19.050	3/4	22.225	7/8	—	—	29	1.142	38	1.496
H 306	HE 306	HS 306	HA 306	25	0.984	25.400	1	22.225	7/8	23.812	15/16	31	1.220	45	1.772
H 307	—	HS 307	HA 307	30	1.181	—	—	28.575	11/8	30.162	1 3/16	35	1.378	52	2.047
H 308	HE 308	HS 308	HA 308	35	1.378	31.750	1 1/4	34.925	13/8	33.338	1 5/16	36	1.417	58	2.283
H 309	HE 309	HS 309	HA 309	40	1.575	38.100	1 1/2	41.275	15/8	36.512	1 7/16	39	1.535	65	2.559
H 310	HE 310	HS 310	HA 310	45	1.772	44.450	1 3/4	41.275	15/8	42.862	1 11/16	42	1.654	70	2.756
H 311	HE 311 X ²⁾	HS 311	HA 311	50	1.969	50.800	2	47.625	17/8	49.212	1 15/16	45	1.772	75	2.953
H 312	—	HS 312	—	55	2.165	—	—	53.975	2 1/8	—	—	47	1.850	80	3.150
H 313	HE 313	HS 313	HA 313	60	2.362	57.150	2 1/4	60.325	2 3/8	55.562	2 3/16	50	1.969	85	3.346
H 314	—	—	—	60	2.362	—	—	—	—	—	—	52	2.047	92	3.622
H 315	HE 315	—	HA 315	65	2.559	63.500	2 1/2	—	—	61.912	2 7/16	55	2.165	98	3.858
H 316	HE 316	—	HA 316	70	2.756	69.850	2 3/4	—	—	68.262	2 11/16	59	2.323	105	4.134
H 317	HE 317	—	HA 317	75	2.953	76.200	3	—	—	74.612	2 15/16	63	2.480	110	4.331
H 318	HE 318	—	HA 318	80	3.150	82.550	3 1/4	—	—	80.962	3 3/16	65	2.559	120	4.724
H 319	HE 319	—	—	85	3.346	82.550	3 1/4	—	—	—	—	68	2.677	125	4.921
H 320	HE 320	—	HA 320	90	3.543	88.900	3 1/2	—	—	87.312	3 7/16	71	2.795	130	5.118
H 322	HE 322	—	—	100	3.937	101.600	4	—	—	—	—	77	3.031	145	5.709

1) Adapter numbers apply to adapter sleeve, lock-nut, and lock-washer assemblies.

2) The thread size of HE 311 X is M 55×1.5 and differs from the standard (M 55×2.0).

Tolerances for Adapter Sleeves

Bearing Bore Diameter Numbers ($\frac{\text{Bore Dia.}}{5}$)	Bore Diameter d_1 Deviation		Length L Deviation	
	mm	inch	mm	inch
04 ~ 10	± 0.05	± 0.0020	± 0.25	± 0.010
11 ~ 16	± 0.06	± 0.0024	± 0.25	± 0.010
17 ~ 24	± 0.07	± 0.0028	± 0.25	± 0.010
26 ~ 36	± 0.08	± 0.0031	± 0.25	± 0.010
38 ~ 48	± 0.09	± 0.0035	± 0.25	± 0.010
52 ~ 60	± 0.12	± 0.0047	± 0.50	± 0.020
64 ~ 80	± 0.15	± 0.0059	± 0.50	± 0.020

Approx Weight ³⁾		Part Numbers for Adapter Components ⁴⁾			Corresponding Bearing Numbers ⁵⁾			
kg	lb	Adapter Sleeves ⁶⁾	Lock-nuts	Lock-washers	Self-Aligning Ball Bearings		Spherical Roller Bearings	
0.045	0.099	A 304	AN 04	AW 04	2204 K	1304 K	—	21304 K
0.075	0.165	A 305	AN 05	AW 05	2205 K	1305 K	22205 K	21305 CDK
0.110	0.243	A 306	AN 06	AW 06	2206 K	1306 K	22206 K	21306 CDK
0.145	0.320	A 307	AN 07	AW 07	2207 K	1307 K	22207 K	21307 CDK
0.190	0.420	A 308	AN 08	AW 08	2208 K	1308 K	22208 K	21308 CDK
0.260	0.575	A 309	AN 09	AW 09	2209 K	1309 K	22209 K	21309 CDK
0.300	0.660	A 310	AN 10	AW 10	2210 K	1310 K	22210 K	21310 CDK
0.350	0.770	A 311	AN 11	AW 11	2211 K	1311 K	22211 CDK	21311 CDK
0.400	0.880	A 312	AN 12	AW 12	2212 K	1312 K	22212 CDK	21312 CDK
0.450	0.990	A 313	AN 13	AW 13	2213 K	1313 K	22213 CDK	21313 CDK
0.650	1.43	A 314	AN 14	AW 14	—	—	22214 CDK	21314 CDK
0.850	1.87	A 315	AN 15	AW 15	2215 K	1315 K	22215 CDK	21315 CDK
1.05	2.31	A 316	AN 16	AW 16	2216 K	1316 K	22216 CDK	21316 CDK
1.20	2.65	A 317	AN 17	AW 17	2217 K	1317 K	22217 CDK	21317 CDK
1.40	3.10	A 318	AN 18	AW 18	2218 K	1318 K	22218 CDK	21318 CDK
1.55	3.40	A 319	AN 19	AW 19	2219 K	1319 K	22219 CDK	21319 AK
1.70	3.75	A 320	AN 20	AW 20	2220 K	1320 K	22220 CDK	21320 AK
2.30	5.05	A 322	AN 22	AW 22	2222 K	1322 K	22222 CDK	21322 K

3) Weight includes adapter sleeve, lock-nut, and lock-washer.

4) For dimensions of adapter components, see pages 28, 29, 34, 35.

5) For corresponding bearings listed above, refer to **Ball Bearings** (Pr. No. 2110) and **Spherical Roller Bearings** (Pr. No. 2112).

6) The adapter sleeve numbers listed above correspond to the H 3 series adapter numbers.

The adapter sleeve numbers for the HE 3, HS 3, and HA 3 series are AE 3, AS 3, and AA 3 respectively.

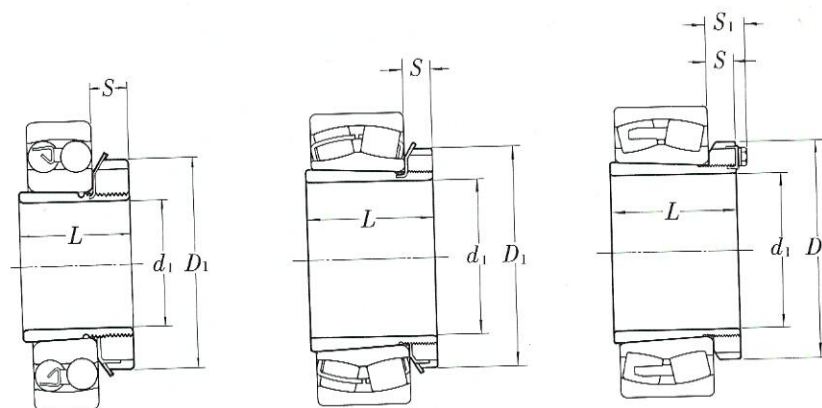
ADAPTERS

Series H 23

HE 23

HS 23

HA 23



Adapter Numbers ¹⁾				Dimensions															
				Bore (Shaft) Dia d_1								L		D_1		S		S_1	
				H		HE		HS		HA									
H	HE	HS	HA	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
H 2304	—	—	—	17	0.669	—	—	—	—	—	—	31	1.220	32	1.260	7	0.276		
H 2305	HE 2305	—	—	20	0.787	19.050	3/4	—	—	—	—	35	1.378	38	1.496	8	0.315		
H 2306	HE 2306	HS 2306	HA 2306	25	0.984	25.400	1	22.225	7/8	23.812	15/16	38	1.496	45	1.772	8	0.315		
H 2307	—	HS 2307	HA 2307	30	1.181	—	—	28.575	1 1/8	30.162	1 3/16	43	1.693	52	2.047	9	0.354		
H 2308	HE 2308	HS 2308	—	35	1.378	31.750	1 1/4	34.925	1 3/8	—	—	46	1.811	58	2.283	10	0.394		
H 2309	HE 2309	—	HA 2309	40	1.575	38.100	1 1/2	—	—	36.512	1 7/16	50	1.969	65	2.559	11	0.433		
H 2310	HE 2310	HS 2310	HA 2310	45	1.772	44.450	1 3/4	41.275	1 5/8	42.862	1 11/16	55	2.165	70	2.756	12	0.472		
H 2311	HE 2311 X ²⁾	HS 2311	HA 2311	50	1.969	50.800	2	47.625	1 7/8	49.212	1 15/16	59	2.323	75	2.953	12	0.472		
H 2312	—	HS 2312	—	55	2.165	—	—	53.975	2 1/8	—	—	62	2.441	80	3.150	13	0.512		
H 2313	HE 2313	HS 2313	HA 2313	60	2.362	57.150	2 1/4	60.325	2 3/8	55.562	2 3/16	65	2.559	85	3.346	14	0.551		
H 2314	—	—	—	60	2.362	—	—	—	—	—	—	68	2.677	92	3.622	14	0.551		
H 2315	HE 2315	—	HA 2315	65	2.559	63.500	2 1/2	—	—	61.912	2 7/16	73	2.874	98	3.858	15	0.591		
H 2316	HE 2316	—	HA 2316	70	2.756	69.850	2 3/4	—	—	68.262	2 11/16	78	3.071	105	4.134	17	0.669		
H 2317	HE 2317	—	HA 2317	75	2.953	76.200	3	—	—	74.612	2 15/16	82	3.228	110	4.331	18	0.709		
H 2318	HE 2318	—	HA 2318	80	3.150	82.550	3 1/4	—	—	80.962	3 3/16	86	3.386	120	4.724	18	0.709		
H 2319	HE 2319	—	—	85	3.346	82.550	3 1/4	—	—	—	—	90	3.543	125	4.921	19	0.748		
H 2320	HE 2320	—	HA 2320	90	3.543	88.900	3 1/2	—	—	87.312	3 7/16	97	3.819	130	5.118	20	0.787		
H 2322	HE 2322	—	—	100	3.937	101.600	4	—	—	—	—	105	4.134	145	5.709	21	0.827		
H 2324	HE 2324	—	HA 2324	110	4.331	107.950	4 1/4	—	—	106.362	4 3/16	112	4.409	155	6.102	22	0.866		
H 2326	HE 2326	—	HA 2326	115	4.528	114.300	4 1/2	—	—	112.712	4 7/16	121	4.764	165	6.496	23	0.906		
H 2328	HE 2328	—	HA 2328	125	4.921	127.000	5	—	—	125.412	4 15/16	131	5.157	180	7.087	24	0.945		
H 2330	HE 2330	—	HA 2330	135	5.315	133.350	5 1/4	—	—	131.762	5 3/16	139	5.472	195	7.677	26	1.024		
H 2332	HE 2332	—	HA 2332	140	5.512	139.700	5 1/2	—	—	138.112	5 7/16	147	5.787	210	8.268	28	1.102		
H 2334	HE 2334	—	HA 2334	150	5.906	152.400	6	—	—	150.812	5 15/16	154	6.063	220	8.661	29	1.142		
H 2336	HE 2336	—	HA 2336	160	6.299	165.100	6 1/2	—	—	163.512	6 7/16	161	6.339	230	9.055	30	1.181		
H 2338	HE 2338	—	HA 2338	170	6.693	171.450	6 3/4	—	—	176.212	6 15/16	169	6.654	240	9.449	31	1.220		
H 2340	HE 2340	—	HA 2340	180	7.087	177.800	7	—	—	182.562	7 3/16	176	6.929	250	9.843	32	1.260		
H 2344	—	—	—	200	7.874	—	—	—	—	—	—	183	7.205	280	11.024	32	1.260		
H 2348	—	—	—	220	8.661	—	—	—	—	—	—	196	7.717	300	11.811	34	1.339		
H 2352	—	—	—	240	9.449	—	—	—	—	—	—	208	8.189	330	12.992	36	1.417		
H 2356	—	—	—	260	10.236	—	—	—	—	—	—	221	8.701	350	13.780	38	1.496		
																44	1.732		
																46	1.811		
																49	1.929		
																51	2.000		

- 1) Adapter numbers apply to adapter sleeve, lock-nut, and lock-washer (or locking clamp) assemblies.
- 2) The thread size of HE 2311 X is M 55×1.5 and differs from the standard (M 55×2.0).

Tolerances for Adapter Sleeves

Bearing Bore Diameter Numbers (Bore Dia.) 5	Bore Diameter d_1 Deviation		Length L Deviation	
	mm	inch	mm	inch
04 ~ 10	±0.05	±0.0020	±0.25	±0.010
11 ~ 16	±0.06	±0.0024	±0.25	±0.010
17 ~ 24	±0.07	±0.0028	±0.25	±0.010
26 ~ 36	±0.08	±0.0031	±0.25	±0.010
38 ~ 48	±0.09	±0.0035	±0.25	±0.010
52 ~ 60	±0.12	±0.0047	±0.50	±0.020
64 ~ 80	±0.15	±0.0059	±0.50	±0.020

Approx Weight ³⁾		Part Numbers for Adapter Components ⁴⁾				Corresponding Bearing Numbers ⁵⁾		
kg	lb	Adapter Sleeves ⁶⁾	Lock-nuts	Lock-washers	Locking Clamps	Self-Aligning Ball Bearings	Spherical Roller Bearings	
0.050	0.110	A 2304	AN 04	AW 04	—	2304 K	—	—
0.090	0.198	A 2305	AN 05	AW 05	—	2305 K	—	—
0.125	0.276	A 2306	AN 06	AW 06	—	2306 K	—	—
0.160	0.355	A 2307	AN 07	AW 07	—	2307 K	—	—
0.225	0.495	A 2308	AN 08	AW 08	—	2308 K	—	22308 CDK
0.300	0.660	A 2309	AN 09	AW 09	—	2309 K	—	22309 CDK
0.350	0.770	A 2310	AN 10	AW 10	—	2310 K	—	22310 CDK
0.400	0.880	A 2311	AN 11	AW 11	—	2311 K	—	22311 CDK
0.450	0.990	A 2312	AN 12	AW 12	—	2312 K	—	22312 CDK
0.550	1.21	A 2313	AN 13	AW 13	—	2313 K	—	22313 CDK
0.800	1.76	A 2314	AN 14	AW 14	—	—	—	22314 CDK
1.05	2.31	A 2315	AN 15	AW 15	—	2315 K	—	22315 CDK
1.30	2.87	A 2316	AN 16	AW 16	—	2316 K	—	22316 CDK
1.45	3.20	A 2317	AN 17	AW 17	—	2317 K	—	22317 CDK
1.70	3.75	A 2318	AN 18	AW 18	—	2318 K	23218 K	22318 CDK
1.90	4.20	A 2319	AN 19	AW 19	—	2319 K	—	22319 K
2.15	4.75	A 2320	AN 20	AW 20	—	2320 K	23220 K	22320 CAK
2.75	6.05	A 2322	AN 22	AW 22	—	2322 K	23222 CAK	22322 CAK
3.20	7.05	A 2324	AN 24	AW 24	—	—	23224 CAK	22324 CAK
4.60	10.1	A 2326	AN 26	AW 26	—	—	23226 CAK	22326 CAK
5.55	12.2	A 2328	AN 28	AW 28	—	—	23228 CAK	22328 CAK
6.60	14.6	A 2330	AN 30	AW 30	—	—	23230 CAK	22330 CAK
9.15	20.2	A 2332	AN 32	AW 32	—	—	23232 CAK	22332 CAK
10.0	22.0	A 2334	AN 34	AW 34	—	—	23234 K	22334 CAK
11.5	25.4	A 2336	AN 36	AW 36	—	—	23236 K	22336 CAK
12.5	27.6	A 2338	AN 38	AW 38	—	—	23238 K	22338 K
14.0	31.0	A 2340	AN 40	AW 40	—	—	23240 K	22340 K
16.5	36.5	A 2344	AN 44	—	AL 44	—	23244 K	22344 K
19.5	43.0	A 2348	AN 48	—	AL 44	—	23248 K	22348 K
24.0	53.0	A 2352	AN 52	—	AL 52	—	23252 K	22352 K
28.0	61.5	A 2356	AN 56	—	AL 52	—	23256 K	22356 K

3) Weight includes adapter sleeve, lock-nut, and lock-washer (or locking clamp).

4) For dimensions of adapter components, see pages 28~38.

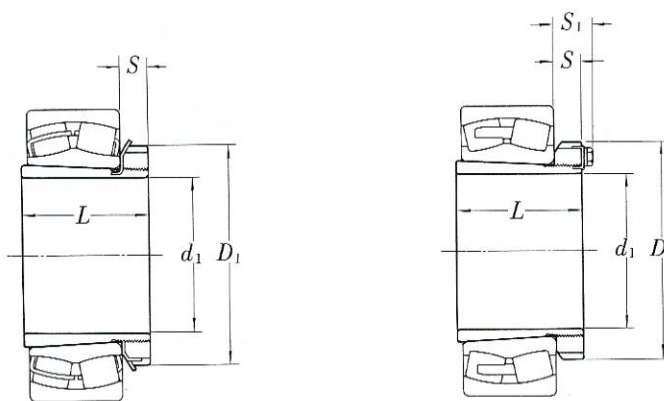
5) For corresponding bearings listed above, refer to **Ball Bearings** (Pr. No. 2110) and **Spherical Roller Bearings** (Pr. No. 2112).

6) The adapter sleeve numbers listed above correspond to the H 23 series adapter numbers.

The adapter sleeve numbers for the HE 23, HS 23, and HA 23 series are AE 23, AS 23, and AA 23 respectively.

ADAPTERS

Series H 30
HE 30
HA 30



Adapter Numbers ¹⁾			Dimensions													
H	HE	HA	Bore (Shaft) Dia		d_1		L		D_1		S		S_1			
			H	HE	HA		H	HE	H	HE	H	HE	H	HE		
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
H 3024	HE 3024	HA 3024	110	4.331	107.950	4 1/4	106.362	4 3/16	72	2.835	145	5.709	22	0.866	—	—
H 3026	HE 3026	HA 3026	115	4.528	114.300	4 1/2	112.712	4 7/16	80	3.150	155	6.102	23	0.906	—	—
H 3028	HE 3028	HA 3028	125	4.921	127.000	5	125.412	4 15/16	82	3.228	165	6.496	24	0.945	—	—
H 3030	HE 3030	HA 3030	135	5.315	133.350	5 1/4	131.762	5 3/16	87	3.425	180	7.087	26	1.024	—	—
H 3032	HE 3032	HA 3032	140	5.512	139.700	5 1/2	138.112	5 7/16	93	3.661	190	7.480	28	1.102	—	—
H 3034	HE 3034	HA 3034	150	5.906	152.400	6	150.812	5 15/16	101	3.976	200	7.874	29	1.142	—	—
H 3036	HE 3036	HA 3036	160	6.299	165.100	6 1/2	163.512	6 7/16	109	4.291	210	8.268	30	1.181	—	—
H 3038	HE 3038	HA 3038	170	6.693	171.450	6 3/4	176.212	6 15/16	112	4.409	220	8.661	31	1.220	—	—
H 3040	HE 3040	HA 3040	180	7.087	177.800	7	182.562	7 3/16	120	4.724	240	9.449	32	1.260	—	—
H 3044	—	HA 3044	200	7.874	—	—	201.612	7 15/16	128	5.039	260	10.236	30	1.181	41	1.614
H 3048	—	HA 3048	220	8.661	—	—	227.012	8 15/16	133	5.236	290	11.417	34	1.339	46	1.811
H 3052	—	HA 3052	240	9.449	—	—	239.712	9 7/16	147	5.787	310	12.205	34	1.339	46	1.811
H 3056	—	HA 3056	260	10.236	—	—	265.112	10 7/16	152	5.984	330	12.992	38	1.496	50	1.969
H 3060	—	HA 3060	280	11.024	—	—	277.812	10 15/16	168	6.614	360	14.173	42	1.654	54	2.126
H 3064	—	HA 3064	300	11.811	—	—	303.212	11 15/16	171	6.732	380	14.961	42	1.654	55	2.165

1) Adapter numbers apply to adapter sleeve, lock-nut, and lock-washer (or locking clamp) assemblies.

Tolerances for Adapter Sleeves

Bearing Bore Diameter Numbers (Bore Dia.)	Bore Diameter d_1 Deviation		Length L Deviation	
	mm	inch	mm	inch
04 ~ 10	±0.05	±0.0020	±0.25	±0.010
11 ~ 16	±0.06	±0.0024	±0.25	±0.010
17 ~ 24	±0.07	±0.0028	±0.25	±0.010
26 ~ 36	±0.08	±0.0031	±0.25	±0.010
38 ~ 48	±0.09	±0.0035	±0.25	±0.010
52 ~ 60	±0.12	±0.0047	±0.50	±0.020
64 ~ 80	±0.15	±0.0059	±0.50	±0.020

Approx Weight ²⁾		Part Numbers for Adapter Components ³⁾				Corresponding Bearing Numbers ⁴⁾
kg	lb	Adapter Sleeves ⁵⁾	Lock-nuts	Lock-washers	Locking Clamps	Spherical Roller Bearings
1.95	4.30	A 3024	ANL 24	AWL 24	—	23024 CDK
2.85	6.30	A 3026	ANL 26	AWL 26	—	23026 CDK
3.15	6.95	A 3028	ANL 28	AWL 28	—	23028 CDK
3.90	8.60	A 3030	ANL 30	AWL 30	—	23030 CDK
5.20	11.5	A 3032	ANL 32	AWL 32	—	23032 CDK
6.00	13.2	A 3034	ANL 34	AWL 34	—	23034 CDK
6.85	15.1	A 3036	ANL 36	AWL 36	—	23036 CDK
7.45	16.4	A 3038	ANL 38	AWL 38	—	23038 K
9.20	20.3	A 3040	ANL 40	AWL 40	—	23040 K
10.5	23.1	A 3044	ANL 44	—	ALL 44	23044 K
13.0	28.7	A 3048	ANL 48	—	ALL 48	23048 K
15.5	34.0	A 3052	ANL 52	—	ALL 48	23052 K
17.5	38.5	A 3056	ANL 56	—	ALL 56	23056 K
23.0	50.5	A 3060	ANL 60	—	ALL 60	23060 K
24.5	54.0	A 3064	ANL 64	—	ALL 64	23064 K

2) Weight includes adapter sleeve, lock-nut, and lock-washer (or locking clamp).

3) For dimensions of adapter components, see pages 32, 33, 36, 37, 38.

4) For corresponding bearings listed above, refer to **Spherical Roller Bearings** (Pr. No. 2112).

5) The adapter sleeve numbers listed above correspond to the **H 30** series adapter numbers.

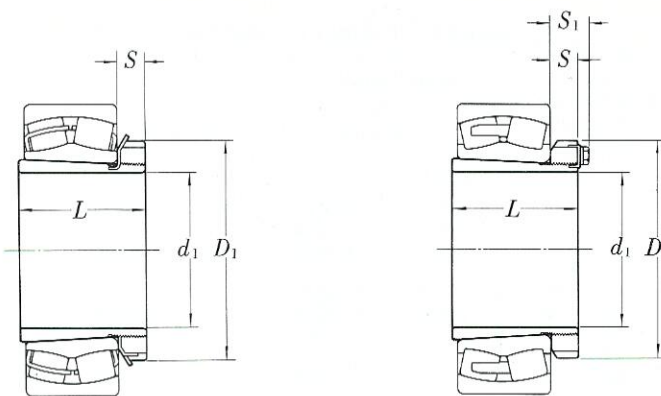
The adapter sleeve numbers for the **HE 30** and **HA 30** series are **AE 30** and **AA 30** respectively.

ADAPTERS

Series H 31, H 32

HE 31

HA 31



Adapter Numbers ¹⁾			Dimensions													
H	HE	HA	Bore (Shaft) Dia		d_1		L		D_1		S		S_1			
			H	HE	HA		H	HE	HA		H	HE	HA			
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
H 3122	HE 3122	—	100	3.937	101.600	4	—	—	81	3.189	145	5.709	21	0.827	—	—
H 3124	HE 3124	HA 3124	110	4.331	107.950	4 1/4	106.362	4 3/16	88	3.465	155	6.102	22	0.866	—	—
H 3126	HE 3126	HA 3126	115	4.528	114.300	4 1/2	112.712	4 7/16	92	3.622	165	6.496	23	0.906	—	—
H 3128	HE 3128	HA 3128	125	4.921	127.000	5	125.412	4 15/16	97	3.819	180	7.087	24	0.945	—	—
H 3130	HE 3130	HA 3130	135	5.315	133.350	5 1/4	131.762	5 3/16	111	4.370	195	7.677	26	1.024	—	—
H 3132	HE 3132	HA 3132	140	5.512	139.700	5 1/2	138.112	5 7/16	119	4.685	210	8.268	28	1.102	—	—
H 3134	HE 3134	HA 3134	150	5.906	152.400	6	150.812	5 15/16	122	4.803	220	8.661	29	1.142	—	—
H 3136	HE 3136	HA 3136	160	6.299	165.100	6 1/2	163.512	6 7/16	131	5.157	230	9.055	30	1.181	—	—
H 3138	HE 3138	HA 3138	170	6.693	171.450	6 3/4	176.212	6 15/16	141	5.551	240	9.449	31	1.220	—	—
H 3140	HE 3140	HA 3140	180	7.087	177.800	7	182.562	7 3/16	150	5.906	250	9.843	32	1.260	—	—
H 3144	—	HA 3144	200	7.874	—	—	201.612	7 15/16	158	6.220	280	11.024	32	1.260	44	1.732
H 3148	—	—	220	8.661	—	—	—	—	169	6.654	300	11.811	34	1.339	46	1.811
H 3152	—	—	240	9.449	—	—	—	—	187	7.362	330	12.992	36	1.417	49	1.929
H 3156	—	—	260	10.236	—	—	—	—	192	7.559	350	13.780	38	1.496	51	2.008
H 3160	—	—	280	11.024	—	—	—	—	208	8.189	380	14.961	40	1.575	53	2.087
H 3164	—	—	300	11.811	—	—	—	—	226	8.898	400	15.748	42	1.654	56	2.205
H 3260	—	—	280	11.024	—	—	—	—	240	9.449	380	14.961	40	1.575	53	2.087
H 3264	—	—	300	11.811	—	—	—	—	258	10.157	400	15.748	42	1.654	56	2.205

1) Adapter numbers apply to adapter sleeve, lock-nut, and lock-washer (or locking clamp) assemblies.

Tolerances for Adapter Sleeves

Bearing Bore Diameter Numbers (Bore Dia.) 5	Bore Diameter d_1 Deviation		Length L Deviation	
	mm	inch	mm	inch
04 ~ 10	±0.05	±0.0020	±0.25	±0.010
11 ~ 16	±0.06	±0.0024	±0.25	±0.010
17 ~ 24	±0.07	±0.0028	±0.25	±0.010
26 ~ 36	±0.08	±0.0031	±0.25	±0.010
38 ~ 48	±0.09	±0.0035	±0.25	±0.010
52 ~ 60	±0.12	±0.0047	±0.50	±0.020
64 ~ 80	±0.15	±0.0059	±0.50	±0.020

Approx Weight ²⁾		Part Numbers for Adapter Components ³⁾				Corresponding Bearing Numbers ⁴⁾	
		Adapter Sleeves ⁵⁾	Lock-nuts	Lock-washers	Locking Clamps	Spherical Roller Bearings	
kg	lb						
2.25	4.95	A 3122	AN 22	AW 22	—	23122 CAK	—
2.65	5.85	A 3124	AN 24	AW 24	—	23124 CAK	22224 CDK
3.65	8.05	A 3126	AN 26	AW 26	—	23126 CAK	22226 CDK
4.35	9.60	A 3128	AN 28	AW 28	—	23128 CAK	22228 CDK
5.50	12.1	A 3130	AN 30	AW 30	—	23130 CAK	22230 CDK
7.65	16.9	A 3132	AN 32	AW 32	—	23132 CAK	22232 CDK
8.40	18.5	A 3134	AN 34	AW 34	—	23134 CAK	22234 CAK
9.50	20.9	A 3136	AN 36	AW 36	—	23136 K	22236 CAK
11.0	24.3	A 3138	AN 38	AW 38	—	23138 K	22238 CAK
12.0	26.5	A 3140	AN 40	AW 40	—	23140 K	22240 CAK
14.5	32.0	A 3144	AN 44	—	AL 44	23144 K	22244 K
17.5	38.5	A 3148	AN 48	—	AL 44	23148 K	22248 K
22.0	48.5	A 3152	AN 52	—	AL 52	23152 K	22252 K
24.5	54.0	A 3156	AN 56	—	AL 52	23156 K	22256 K
30.0	66.0	A 3160	AN 60	—	AL 60	23160 K	22260 K
35.0	77.0	A 3164	AN 64	—	AL 64	23164 K	22264 K
34.0	75.0	A 3260	AN 60	—	AL 60	23260 K	—
39.5	87.0	A 3264	AN 64	—	AL 64	23264 K	—

2) Weight includes adapter sleeve, lock-nut, and lock-washer (or locking clamp).

3) For dimensions of adapter components, see pages 28~38.

4) For corresponding bearings listed above, refer to **Spherical Roller Bearings** (Pr. No. 2112).

5) The adapter sleeve numbers listed above correspond to the H 31 and H 32 series adapter numbers.
The adapter sleeve numbers for the HE 31 and HA 31 series are AE 31 and AA 31 respectively.