



SPA TAKE-UP TYPE BEARING HOUSINGS

FOR USE WITH SPHERICAL ROLLER BEARINGS MOUNTED ON TAPER ADAPTOR SLEEVE.

The SPA Take-Up Type Bearing Housings are mainly used with self-aligning Ball and Spherical Roller Bearings. They are designed to suit 222, 230, 231 and 232 series Bearings with an adapter sleeve. These housings are cast in Cast Steel Gr. BS 3100 A2. Bri-Mac manufacture to suit through and blank shaft and located and non-located Bearings.

Example designation: SPA 3140 KAL/F or KBL/F

SPA = Take-Up Bearing Housing

23140K = Bearing with an Adapter Sleeve
180mm shaft diameter

K = Taper Bearing with an Adapter Sleeve.
A = Blank Cover arrangement.
B = Through Cover arrangement.
L = Non – Located Bearing.
F = Located Bearing.



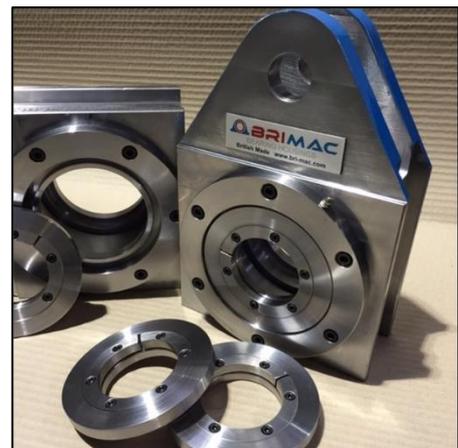
Bri-Mac manufacture the complete range from SPA 2211 to SPA 3284 and have the capability to manufacture to special requirements. Bri-Mac also manufacture the entire THDS range in Cast Steel.

Every SPA Bri-Mac housing is supplied with the following components:

- Housing
- Through or End covers
- Labyrinth seals.
- Sealing Collars.

Special SPA, THDS and THM units are available on request. Bri-Mac also manufacture these units with a felt or taconite sealing arrangement. The units can also be drilled and tapped for any special adjusting equipment that can be mounted on the housing.

Due to their solid steel construction and being cast out of Cast Steel they can withstand very high static and dynamic loads in both radial and axial directions.



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The side guide channels are an integral part of the housing assembly ensuring superior strength over fabricated equivalents. The pins, threaded rods with washers and lock nuts can also be supplied.

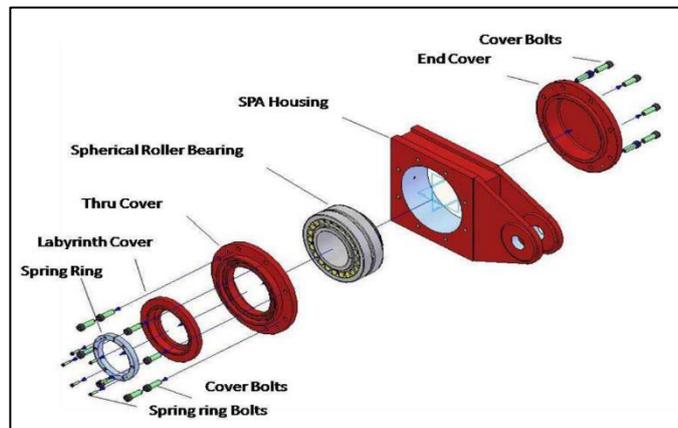
The complex Labyrinth or Taconite seals is fixed onto the shaft by means of the Sealing Collar to ensure that the Labyrinth or Taconite seal rotates with the shaft. The rotating Collar and the fixed cover perform an outstanding sealing function against ingress of dirt and moisture, purging these seals with grease on a regular basis is recommended to keep the dirt ingress out.

A grease nipple is normally fitted to the back end of the housing to grease the bearing. This grease point or points can be moved to suit the application. The housing can also be drilled for Temperature and Vibration probe drilling.

Assembly

Mounting

Measure the internal clearance in the bearing and reduce to the correct figure by driving up the bearing on the adaptor sleeve. The required final clearance figures are published in most bearing catalogues. Bri-Mac laminated clearance reduction charts are available on request.



Location

Ensure that when two housings are mounted on one shaft, only one of the bearings is located in the housing by means of the located cover and that the other is free to move in the housing when thermal expansion or contraction take place in the shaft, to avoid cross location.

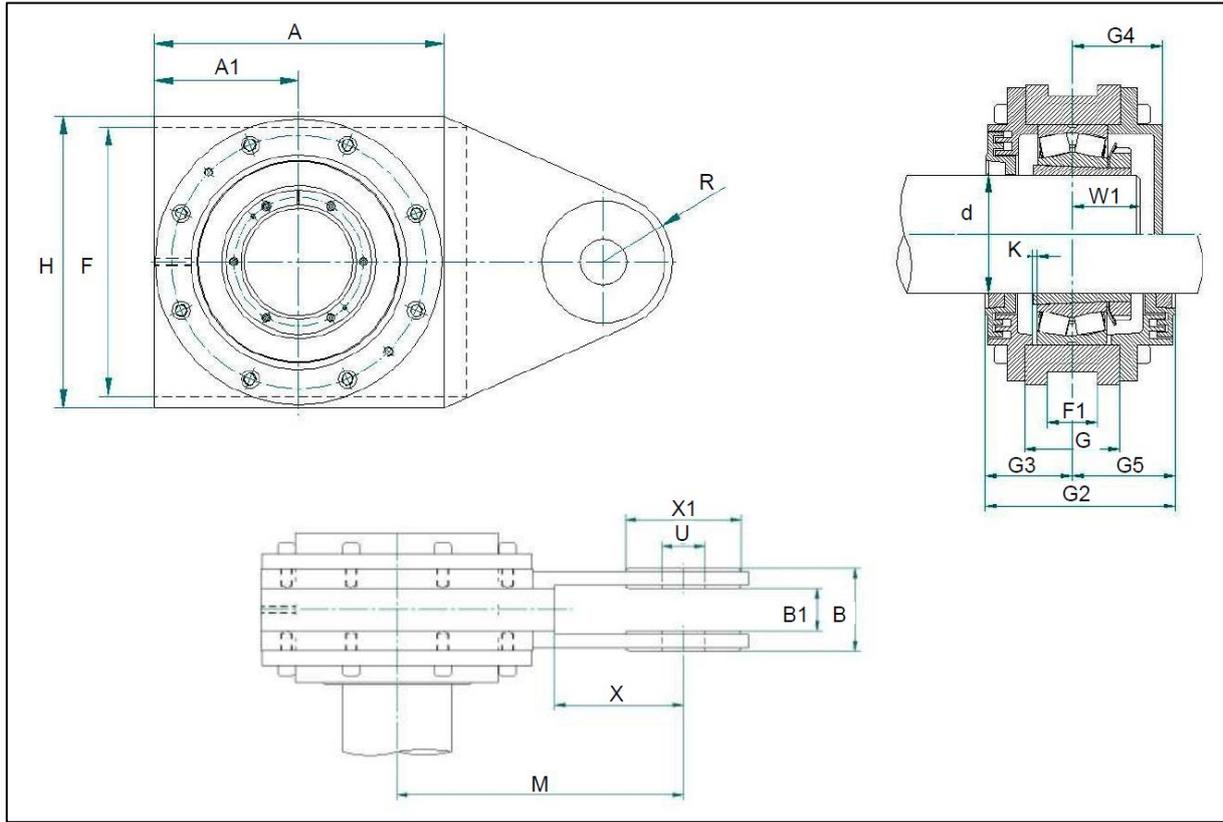
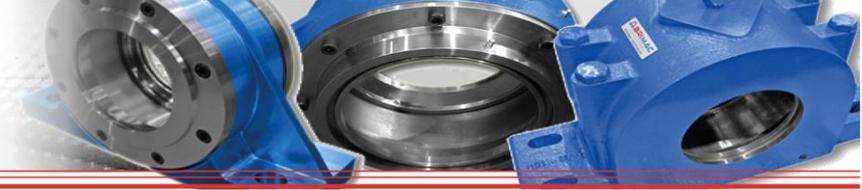
Lubrication

The SPA Take-Up Solid Type Bearing Housing is a grease lubricated housing. Use the correct grease for the application. Over and under lubrication can cause problems with the bearing and ultimately result in bearing failure. Pack the free space within the bearing and housing about two thirds full of grease leaving one third air space to prevent churning and subsequent overheating.

Sealing

Labyrinth seal is the standard sealing arrangement. Taconite seals will be provided with a Mild Steel Labyrinth and V-Ring seal.

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Dimension Table

Shaft Dia.	Housing	Spherical Roller Bearing	Adaptor Sleeve	Mass =kg	W1	A	A1	B	B1	F	F1	G	G2	G3	G4	G5	H	K	M	R	U	X	X1
50	SPA 2211	22211K	H311	9	27	150	75	42	22	135	34	50	109	49	35	60	150	2	105	30	20	30	
55	SPA 2212	22212K	H312	10	30	165	82.5	50	26	150	43	60	120	54	40	66	165	2	120	35	25	37.5	
60	SPA 2213	22213K	H313	10	35	160	80	66	30	155	53	78	135.5	62.5	53	73	180	2	145	40	30	65	60
70	SPA 2216	22216K	H316	17	40	180	90	66	30	175	53	78	145	67	58	78	200	2	155	40	30	65	60
80	SPA 2218	22218K	H318	25	45	210	105	66	30	200	53	78	168.5	78.5	63	90	230	2	170	40	30	65	60
90	SPA 2220	22220K	H320	26	46	235	117.5	70	36	220	40	69	170	80	65	90	250	1.5	185	40	35	67.5	65
100	SPA 2222	22222K	H322	27	55	255	125	76	40	240	53	78	189	94.5	68	94.5	270	1.5	200	45	40	70	70
110	SPA 2224	22224K	H3124	30	58	275	135	76	40	260	53	78	180	85	69	95	290	1.5	210	45	40	70	70
115	SPA 2226	22226K	H3126	38	61	295	147.5	76	40	290	53	82	194	87	78	110	310	2	220	45	40	70	70
125	SPA 3028	23028K	H3028	48	55	260	130	150	60	270	45	70	156	68	68	88	300	3	225	70	50	90	90
	SPA 2228	22228K	H3128	41	65	315	155	76	40	300	53	83	226	113	78	113	330	3	230	45	40	70	70
135	SPA 3030	23030K	H3030	58	60	280	140	150	60	290	45	85	194	82	82	112	320	2	235	70	50	90	90
140	SPA 3132	23132K	H3132HG	120	78	370	185	132	62	340	65	116	229	108	108	121	370	3	350	90	61	160	100
150	SPA 3034	23040K	H3034HG	85	68	325	162.5	150	60	330	65	102	201	88	88	113	360	2	260	70	50	90	90
	SPA 3134	23134K	H3134HG	150	80	375	187.5	132	62	370	65	120	249	113	113	136	400	3	395	90	60	180	100
170	SPA 3038	23038K	H3038HG	130	72	375	180	150	60	400	65	105	211	93	88	118	440	3	290	70	50	90	90
180	SPA 3140	23140K	H3140HG	165	95	420	210	140	70	410	100	140	270	120	115	150	440	1.5	360	80	60	140	100
	SPA 3040	23040K	H3040	165	90	390	200	125	62	400	83	110	236	108	98	133	430	2	275	80	70	75	110
200	SPA 3044	23044K	H3044HG	180	80	430	210	200	70	440	65	120	241	103	103	138	480	3	325	80	60	100	100
	SPA 3144	23144K	H3144HG	260	95	470	235	144	74	480	65	150	295	135	125	160	510	4	530	120	100	260	140
220	SPA 3148	23148K	H3148HG	315	110	520	260	215	123	500	65	152	328	149	129	179	540	4	515	150	100	250	250
240	SPA 3052	23052K	H3052HG	235	94	500	245	215	123	500	65	135	261	113	113	148	540	1.5	515	150	100	250	250
	SPA 3152	23152K	H3152HG	325	115	550	275	225	135	540	80	175	336	150.5	140.5	185.5	570	4	565	150	100	270	250
280	SPA 3160	23160K	H3160HG	440	130	630	315	270	170	610	130	190	385	170	155	215	650	4	650	150	100	310	200
	SPA 3260	23260K	H3260HG	620	145	680	340	270	190	650	115	230	404	182	187	222	690	4	680	180	100	310	260
320	SPA 3168	23168K	H3168HG	630	160	740	370	300	180	700	150	220	445	200	200	245	740	4	720	200	120	310	240
340	SPA 3272	23272K	H3272HG	885	190	800	400	330	213	790	123	275	509	227	222	282	830	5	765	225	130	310	280
360	SPA 3176	23176K	H3176HG	700	170	750	375	300	200	740	120	230	459	202	202	257	790	5	750	200	110	320	230

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