BRIMAC ENGINEERING LIMITED

GLOBAL BEARING HOUSING SOLUTIONS

SD 3100 Series Bearing Housings

PRODUCT OVERVIEW

The Bri-Mac SD 3100 Series consists of heavy-duty split plummer block housings designed for spherical roller bearings mounted on adapter sleeves. Developed for demanding industrial applications, the range is widely used in sectors such as mining, quarrying, bulk materials handling, steel production and general heavy industry, where strength, reliability and ease of maintenance are essential.

The SD 3100 Series is available in a choice of material to suit the application and operating environment. The range includes **cast steel (SDT), grey cast iron (SD)** and **spheroidal graphite (ductile) iron (SDD)**. While all variants provide robust bearing support, the **cast steel (SDT) version is the most commonly specified and supplied**, offering exceptional strength and impact resistance for severe-duty applications.

The housing design incorporates an integral oil well adjacent to the bearing position, allowing oil-bath lubrication where required. Optional grease points can also be fitted over both the bearing and sealing locations. For blank shaft end arrangements, a steel end cover is supplied as standard. Taconite sealing systems and other design enhancements can be incorporated to suit particularly challenging operating conditions. For applications requiring maximum rigidity and load-carrying capability, solid-base versions are also available.

SEALING ARRANGEMENTS

The SD 3100 Series is supplied with standard labyrinth seals and can also be provided with alternative sealing arrangements to suit specific operating conditions. Available options include:

- Standard labyrinth seals
- Taconite seals for highly contaminated environments
- Special sealing configurations available on request

LIFTING & HANDLING

Larger housing sizes are supplied with lifting eyebolts to support safe handling, transportation, installation and maintenance.

MATERIALS

The SD 3100 Series is available in the following material options:

- SD**T** - Cast Steel (most commonly supplied)
- SD - Grey Cast Iron
- SD**D** - Spheroidal Graphite Iron (Ductile Iron)



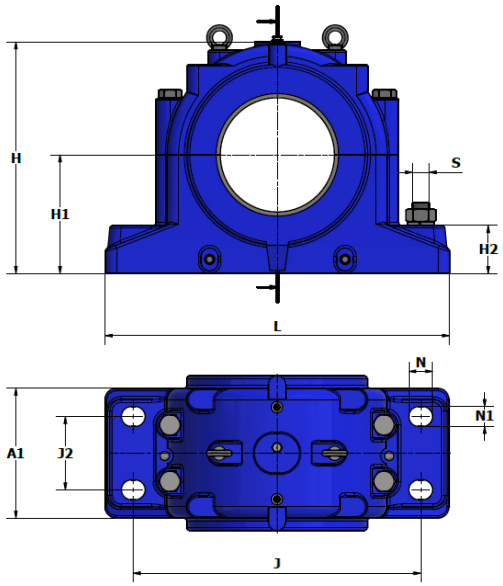
SUPPLEMENTARY DESIGNATIONS

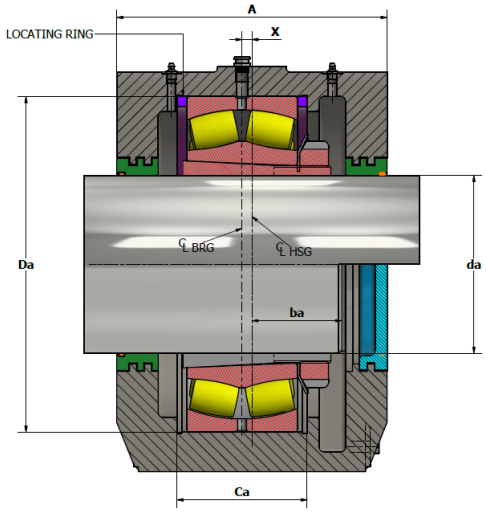
DESIGNATION	DESCRIPTION
Standard	Bearing on adapter sleeve for plain cylindrical shaft
C	Bearing on adapter sleeve for stepped shaft
D	Bearing on withdrawal sleeve for stepped shaft
G	Bearing on stepped shaft with felt and labyrinth seals
H	Bearing on stepped shaft with felt seal, prepared for supplementary V-ring seal
A	Blank shaft housing (with end cover)
B	Through shaft housing
L	Non-locating (free) bearing arrangement
F	Locating (fixed) bearing arrangement
P	Cross-location arrangement
V	Housing supplied with grease escape hole
D	Housing for bearings with cylindrical bore (444 series only)
TS	Housing fitted with labyrinth seals
TAC	Housing fitted with taconite seals

HOUSING CONFIGURATIONS

- **AL** Blank shaft (with end cover), non-locating bearing.
- **AF** Blank shaft (with end cover), locating bearing.
- **BL** Through shaft, non-locating bearing.
- **BF** Through shaft, locating bearing.

SD 3100 Series Bearing Housings





Bri-Mac Part No	Shaft Dia (da)	Dimensions (mm)														Bolt Size (S)	Bearing No	Adapter Sleeve	Labyrinth Seal		Locating Ring	
		Da (H7)	H	H1 (h13)	H2	L	A1	J	J2	A	Ca	X	ba	N	N1				Seal	End Cover	Number	Quantity
SD 3134	150	280	335	170	70	510	180	430	100	230	108	14	76	35	28	M24	23134 CCK/W33	H 3134	TS 34	ETS 34	10/280	2
SD 3136	160	300	355	180	75	530	190	450	110	240	116	15	81	38	30	M24	23136 CCK/W33	H 3136	TS 36	ETS 36	10/300	2
SD 3138	170	320	375	190	80	560	210	480	120	260	124	10	86	48	35	M24	23138 CCK/W33	H 3138	TS 38	ETS 38	10/320	2
SD 3140	180	340	410	210	85	610	230	510	130	280	132	10	91	42	35	M30	23140 CCK/W33	H 3140	TS 40	ETS 40	10/340	2
SD 3144	200	370	435	220	90	640	240	540	140	290	140	12	96	46	36	M30	23144 CCK/W33	H 3144	TS 44	ETS 44	10/370	2
SD 3148	220	400	475	240	95	700	260	600	150	310	148	12	102	46	38	M30	23148 CCK/W33	H 3148	TS 48	ETS 48	10/400	2
SD 3152	240	440	515	260	100	770	280	650	160	330	164	13	112	60	45	M36	23152 CCK/W33	H 3152	TS 52	ETS 52	10/440	2
SD 3156	260	460	550	280	105	790	280	670	160	320	166	16	115	60	45	M36	23156 CCK/W33	H 3156	TS 56	ETS 56	10/460	2
SD 3160	280	500	590	300	110	830	310	710	190	350	180	22	124	64	45	M36	23160 CCK/W33	H 3160	TS 60	ETS 60	10/500	2
SD 3164	300	540	630	320	115	880	330	750	200	370	196	23	135	72	45	M36	23164 CCK/W33	H 3164	TS 64	ETS 64	10/540	2
SD 3168	320	580	670	340	120	965	380	840	240	390	210	25	155	70	52	M36	23168 CCK/W33	H 3168	TS 68	ETS 68	10/580	2
SD 3172	340	600	720	360	130	1040	390	890	255	400	212	22	159	77	60	M48	23172 CCK/W33	H 3172	TS 72	ETS 72	10/600	2
SD 3176	360	620	750	380	135	1120	400	980	255	405	214	22	162	88	68	M56	23176 CCK/W33	H 3176	TS 76	ETS 76	10/620	2
SD 3180	380	650	790	400	140	1245	420	1050	270	425	220	22	197	96	75	M64	23180 CCK/W33	H 3180	TS 80	ETS 80	10/650	2