

SDJ SERIES BEARING HOUSINGS

SDJ Series Housings are considered as a complement to the SD3100 Series Housings. SDJ Housings are very large and heavy-duty housing. They are suitable for spherical roller bearing 231... Series with adapter sleeve having a shaft diameter of 320 mm onwards. Considering the heavy construction of the housing base, SDJ Housings are the preferred choice for steel industries, crusher applications as well as cement industries

TECHNICAL DETAIL AND PRODUCT FEATURE

- They are horizontally split housing, which helps easy assembly and maintenance for heavy-duty bearing installations. It has a solid base construction, allowing heavy load exerting from various directions.
- At the base of the housing heavy ribs are provided on both sides of the base, which supports heavy bearing load coming on housing in any direction efficiently. Heavy ribbed construction in the bottom half permits SDJ Housing to accommodate load acting at a right angle to the foundation.
- At the base, four elongated holes for bolts are provided for a secured foundation while assembly.



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TECHNICAL DETAIL AND PRODUCT FEATURE

- On the cap, an integral heavy rib is provided with a hole on each side for anchoring purposes to lift this heavy housing instead of eye bolts.
- A shaft diameter of 320 mm to 530 mm is the limiting range for the use of suitable bearings for this series.
- The SDJ Housing can be supplied for located and non-located bearing options. The bearing seating width is machined appropriately for this purpose considering heavy construction of the housing (locating ring is not used).
- SDJ Housings are recommended for grease lubrication. While assembly, initial grease fill for each size of housing is specified. The housing can be modified to suit oil lubrication in case required.
- Since grease lubrication is used for SDJ Series, the best seal provided is Labyrinth type.

Labyrinth Seal : TS

A rubber O'Cord is provided with a labyrinth seal which is inserted between the shaft and labyrinth. This ensures that the labyrinth ring rotates with the shaft and also permits slight axial displacement caused by thermal changes in the shaft and permissible alignment of the bearing.

- For the shaft end option in the housing assembly, provision for an End Cover is available.

- Two-dimensional Series are available in SDJ Housings:

SDJ 30- suitable for bearing SERIES 230...with adapter sleeve

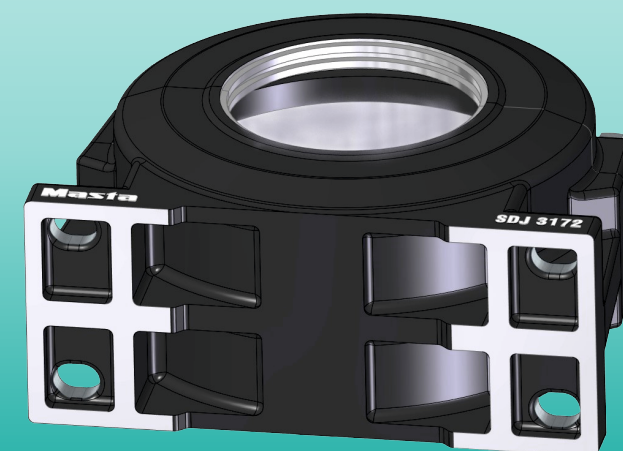
SDJ 31- suitable for bearing SERIES 231...with adapter sleeve

Further, it is possible to modify the housing to accommodate the bearing of other series (having the same bearing outside diameter) by suitably machining the bearing seating size.

- Material for SDJ Series:
The following options are available, which allow a user to select his suitability depending upon the loading condition for bearing housing.

- Graded Cast Iron : Gr FG 260 (IS 210) - SDJC
- Cast Steel : Gr 230-450 (IS 1030)- SDJS
- SG (Ductile) Iron : Gr 400/15 (IS 1865) - SDJD

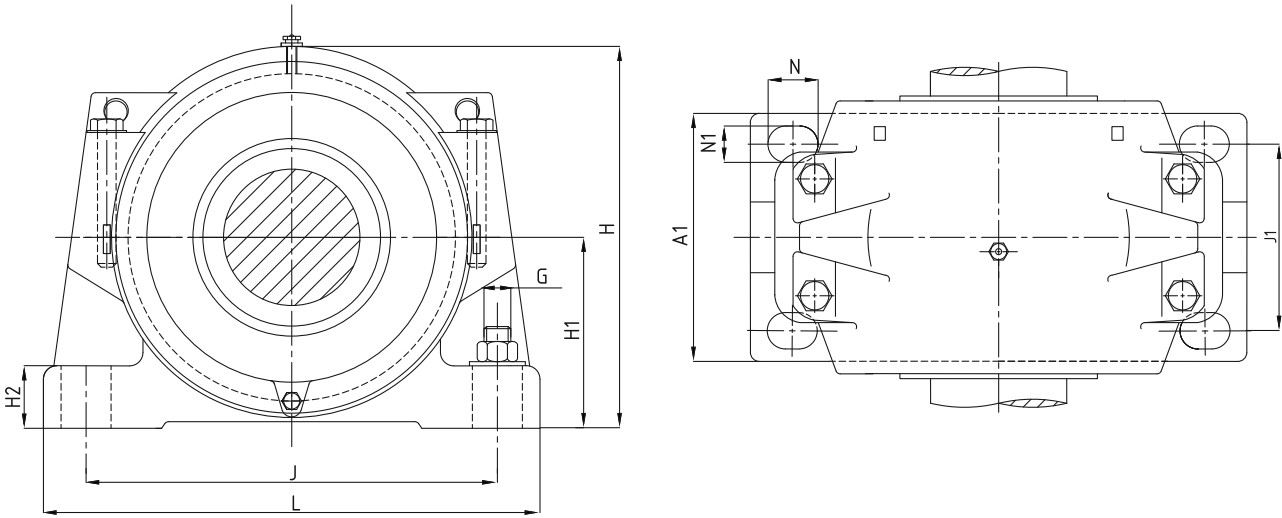
- All SDJ Housings are supplied with four foundation slots and a very strong base which gives the required rigidity to bearing housing installation. Such provision takes care of service where there is heavy vibration and/or severe loading on bearing housing.



Bottom View

SDJ SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves



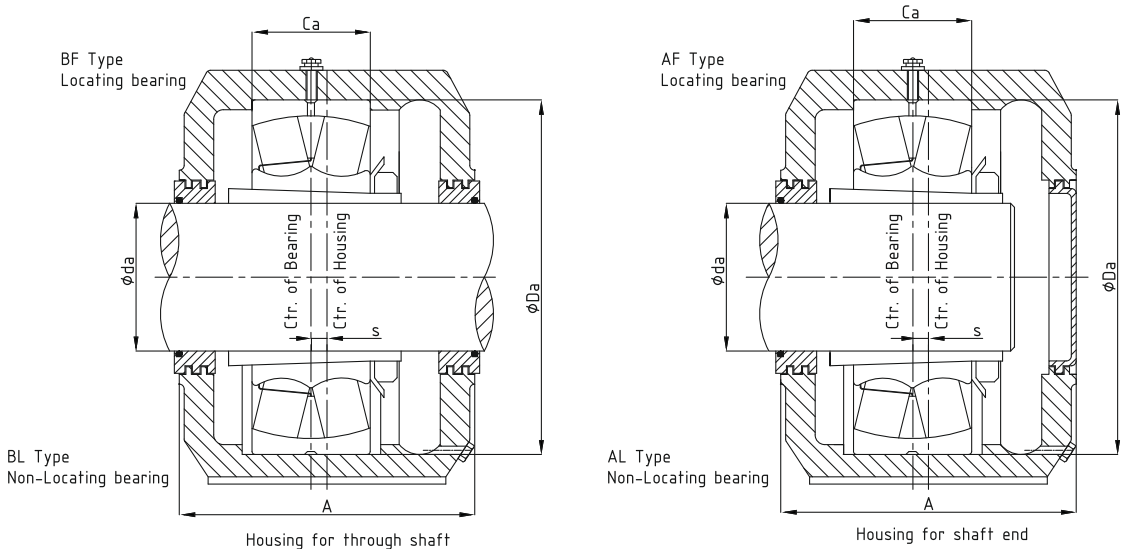
BF TYPE-Through Shaft, Located Bearing
BL TYPE-Through Shaft, Non-Located Bearing

Shaft dia. da mm	Housing Dimensions(in MM)														Mass (Approx) Kg	Designations Housings for Through Shaft	
	A mm	A1	Ca #	Da	H	H1	H2	J	J1	L	N	N1	s	G		Locating Bearing	Non-locating Bearing
320	410	350	190	580	705	360	70	700	240	830	68	52	30	42	550	SDJC 3168 FTS	SDJC 3168 LTS
340	410	350	192	600	705	360	70	700	240	830	68	52	30	42	500	SDJC 3172 FTS	SDJC 3172 LTS
360	450	380	194	620	765	390	75	760	280	880	68	52	35	42	775	SDJC 3176 FTS	SDJC 3176 LTS
380	450	380	200	650	765	390	75	760	280	880	68	52	35	42	700	SDJC 3180 FTS	SDJC 3180 LTS
400	480	400	224	700	855	440	80	810	280	940	68	52	35	42	875	SDJC 3184 FTS	SDJC 3184 LTS
410	480	400	226	720	855	440	80	810	280	940	68	52	35	42	800	SDJC 3188 FTS	SDJC 3188 LTS
430	520	440	240	760	920	470	80	880	310	1040	80	60	35	48	1200	SDJC 3192 FTS	SDJC 3192 LTS
450	520	440	248	790	920	470	80	880	310	1040	80	60	35	48	1100	SDJC 3196 FTS	SDJC 3196 LTS

Bearing seating 'Ca' in non-located bearing is 20 mm wider than given dimension

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BF TYPE-Through Shaft, Located Bearing
BL TYPE-Through Shaft, Non-Located Bearing

Shaft dia. mm	Appropriate Bearing	Adapter Sleeve	Separate Components Housing Without Seals		Labyrinth Ring with O Section Tube	End Cover with O Section Tube	Grease Quantity* Initially Kg
			Locating Bearing	Non-locating Bearing			
320	23168 CCK/W33	OH 3168 H	SDJC 3168 F	SDJC 3168 L	TS 68	ETS 68	19.3
340	23172 CCK/W33	OH 3172 H	SDJC 3172 F	SDJC 3172 L	TS72	ETS 72	19.1
360	23176 CCK/W33	OH 3176 H	SDJC 3176 F	SDJC 3176 L	TS 76	ETS 76	24.5
380	23180 CCK/W33	OH 3180 H	SDJC 3180 F	SDJC 3180 L	TS 80	ETS 80	23.8
400	23184 CCK/W33	OH 3184 H	SDJC 3184 F	SDJC 3184 L	TS 84	ETS 84	33.3
410	23188 CCK/W33	OH 3188 H	SDJC 3188 F	SDJC 3188 L	TS 88	ETS 88	33.0
430	23192 CCK/W33	OH 3192 H	SDJC 3192 F	SDJC 3192 L	TS 92	ETS 92	42.6
450	23196 CCK/W33	OH 3196 H	SDJC 3196 F	SDJC 3196 L	TS 96	ETS 96	40.4

Housing for shaft ends with one end cover carry the designation suffix
A.e.g.SDJC 3168 AFTS and SDJC 3168 ALTS respectively

* Based on 100% filling