

## LOE SERIES BEARING HOUSINGS

LOE Bearing Housing is majorly used in Industrial Fan due to its versatility for industrial services. It can support continuous heavy load with bearing running at high speed and hence at higher temperature. The housing is designed for continuous service without any stoppage. Hence only oil lubrication is used in LOE Housing which justifies the severe loading condition. Oil gives good heat dissipation from the bearing and keep it very safe with longer service life.

LOE Housing are horizontal split housing with detachable covers provided on two sides of the housing. The covers are securely bolted on the body of housing on each side. LOE Housings are robust in construction hence it can operate at high vibration and temperature. They are preferred in Fan Industries, as well as in Cement, Mining, Steel, Power etc Industries. It is capable of handling heavy loads principally in the radial and axial direction with an added advantage for loads coming in an inclined direction also.

The design concepts for LOE is similar to that of SOFN Housing, where all features are available in both types. However they have different dimensions and details. Hence they are not interchangeable.

### TECHNICAL DETAIL AND PRODUCT FEATURE

- LOE Housings are horizontally split type making them easy for assembly and maintenance.
- Each side of the housing, a detachable cover is fitted using bolts for easy assembly. The proper gasket is put between the housing machine side and End Cover to prevent oil leakage.
- At the base, four elongated slots are provided for a secured foundation while assembly. At the base, suitable space is available to drill holes after assembly at site and fit the Dowel whenever required during installation. This arrangement makes installation and alignment during maintenance very easy.
- A shaft diameter of 50 mm to 240 mm is the limiting range for the use of suitable spherical roller bearings for this series.



## LOE SERIES BEARING HOUSINGS



### TECHNICAL DETAIL AND PRODUCT FEATURE

- The LOE Housing can be supplied for located and non-located bearing options. The bearing seating width is obtained by machining the two side covers appropriately. When side covers are fitted to housing, correct bearing seating width obtained. No locating ring is used due to the heavy-duty application of the housing.
- Specially designed labyrinth sealing collars are used to prevent oil leakage. Labyrinth collars are enveloped on end cover spigot in such a way which ensures no leakage of oil. Also grease chamber is provided in cover /labyrinth to further stop minor leakage through rotating shaft. The grease in labyrinth can be relubricated periodically.
- To get best out of oil lubrication system, one oil splash ring is provided inside the housing. Oil splash ring is supported on a sealing collar at one side. Bottom end of oil splash ring is dipped in oil at the sump at base where it generates heavy splash of oil into bearing while rotating. This arrangement makes very efficient lubrication for LOE Housing running at higher speed.
- For shaft end option in the housing assembly, provision for an End Cover is available.
- These housings are suitable for spherical roller bearing series and can be modified for some spherical ball bearings also.
- Four dimensional Series are available in LOE Housings:

LOE 500- suitable for bearing SERIES 222...CCK with adapter sleeve.

LOE 600- suitable for bearing SERIES 223...CCK with adapter sleeve.

LOE 200- suitable for bearing SERIES 222...CC with cylindrical bore.

LOE 300- suitable for bearing SERIES 223...CC with cylindrical bore.

- Masta supplies customized LOE Housing to cater specific need of the users.
  - I.) For higher temperature application, LOE Housing can be provided with metallic cooling coil inside the housing. The cooling coil is located in the area of oil sump in lower section of housing. Two ends of the cooling coil are fitted to cover at one end. From outside water inlet and outlet are provided to facilitate cooling of oil for better result. The cooling coil through which cold water circulates is submerged in the oil to regulate the oil temperature.
  - II.) For the circumstance when application is hard pressed for maintenance time during plant shut down, LOE Housing can be supply with split end covers which are screwed together securely and this makes assembly easy and fast.
- For recording the temperature and vibrations continuously on LOE Housing suitable pads are provided, where probe can be fitted to monitor the working condition of bearing. Suitable oil level indicator is fitted which shows max and min level of oil inside the housing. Drain Plugs are provided for removing contaminated oil without disturbing the assembly.
- Air Breather Plug is provided which enables hot air to escape which is generated during higher temperature rise while in operation.
- On cap of housing suitable oil inlet hole & (plug) is available which can be used to add oil when required. Also an external force feed oil lubricating system can be fitted to LOE Housing which can regulate continuously the oil flow to achieve desired temperature of oil.

Material for LOE Series:

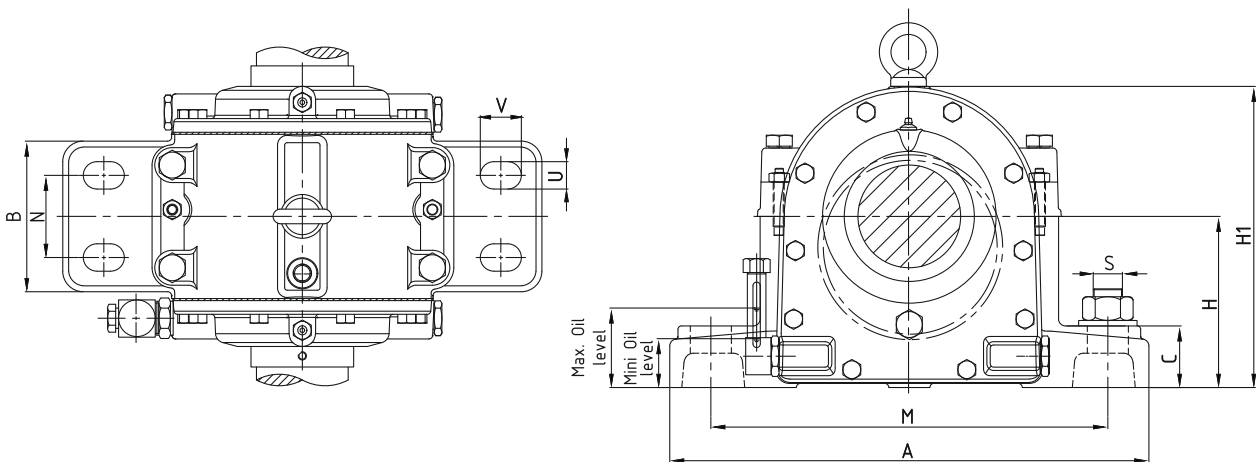
Following options are available, which allow user to select his suitability depending upon the loading condition for bearing housing.

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

- During final assembly Chemical bonding material such as retaining compound is recommended to use between mating surface to prevent oil leakage.

LOE 200-300 SERIES

Plummer Blocks (Bearing Housings)  
For Straight Cylindrical Bore Bearings

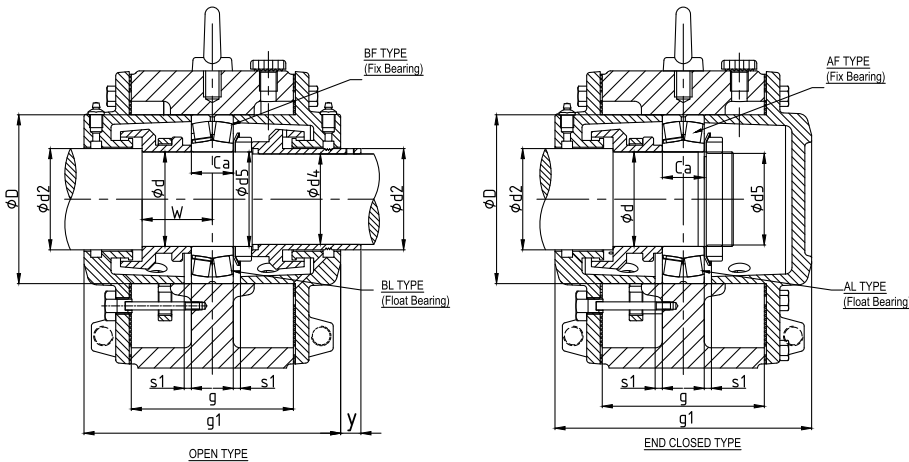


BF TYPE-Through Shaft, Located Bearing  
BL TYPE-Through Shaft, Non-Located Bearing

| Bearing Housing Designation | Shaft Diameter |     |    |        | Housing Dimension in MM |     |     |     |    |    |     |    |     |     |    |    |      |    |     |       | Suitable For Bearing | Oil Level |    |    |    | Approx Weight Kg. |
|-----------------------------|----------------|-----|----|--------|-------------------------|-----|-----|-----|----|----|-----|----|-----|-----|----|----|------|----|-----|-------|----------------------|-----------|----|----|----|-------------------|
|                             | d              | d2  | d4 | d5     | A                       | B   | H1  | H   | C  | w  | M   | N  | g   | g1  | V  | U  | S    | Ca | D   | Max.  |                      | Min.      |    |    |    |                   |
| LOE-310                     | 50             | 55  | 47 | M50x2  | 350                     | 125 | 205 | 115 | 40 | 52 | 290 | 75 | 135 | 210 | 30 | 20 | M-16 | 40 | 110 | 22310 | CC                   | 65        | 50 | 10 | 15 | 30                |
| LOE-312                     | 60             | 65  | 57 | M60x2  | 370                     | 130 | 220 | 125 | 45 | 55 | 310 | 80 | 140 | 220 | 30 | 20 | M-16 | 46 | 130 | 22312 | CC                   | 65        | 50 | 10 | 15 | 35                |
| LOE-214                     | 70             | 75  | 67 | M70x2  | 350                     | 110 | 220 | 125 | 45 | 52 | 290 | 60 | 120 | 190 | 30 | 20 | M-16 | 31 | 125 | 22214 | CC                   | 65        | 50 | 10 | 15 | 29                |
| LOE-314                     | 70             | 75  | 67 | M70x2  | 410                     | 150 | 240 | 135 | 48 | 62 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 51 | 150 | 22314 | CC                   | 65        | 50 | 10 | 15 | 45                |
| LOE-215                     | 75             | 80  | 72 | M75x2  | 350                     | 110 | 220 | 125 | 45 | 52 | 290 | 60 | 120 | 190 | 30 | 20 | M-16 | 31 | 130 | 22215 | CC                   | 65        | 55 | 10 | 15 | 35                |
| LOE-216                     | 80             | 85  | 77 | M80x2  | 410                     | 150 | 245 | 135 | 48 | 55 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 33 | 140 | 22216 | CC                   | 65        | 50 | 10 | 15 | 42                |
| LOE-316                     | 80             | 85  | 77 | M80x2  | 490                     | 160 | 270 | 150 | 50 | 67 | 400 | 80 | 170 | 250 | 45 | 30 | M-24 | 58 | 170 | 22316 | CC                   | 70        | 55 | 10 | 15 | 60                |
| LOE-217                     | 85             | 90  | 82 | M85x2  | 410                     | 150 | 245 | 135 | 48 | 62 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 36 | 150 | 22217 | CC                   | 65        | 50 | 10 | 15 | 45                |
| LOE-317                     | 85             | 90  | 82 | M85x2  | 490                     | 160 | 270 | 150 | 50 | 72 | 400 | 80 | 170 | 250 | 45 | 30 | M-24 | 60 | 180 | 22317 | CC                   | 65        | 50 | 10 | 15 | 62                |
| LOE-218                     | 90             | 95  | 87 | M90x2  | 410                     | 150 | 245 | 135 | 48 | 61 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 90 | 160 | 22218 | CC                   | 60        | 45 | 10 | 15 | 47                |
| LOE-318                     | 90             | 95  | 87 | M90x2  | 500                     | 165 | 305 | 175 | 55 | 72 | 420 | 80 | 175 | 250 | 45 | 30 | M-24 | 64 | 190 | 22318 | CC                   | 85        | 65 | 10 | 15 | 73                |
| LOE-219                     | 95             | 100 | 92 | M95x 2 | 490                     | 160 | 270 | 150 | 50 | 67 | 400 | 80 | 170 | 250 | 45 | 30 | M-24 | 43 | 170 | 22219 | CC                   | 70        | 55 | 10 | 15 | 60                |

LOE 200-300 SERIES

Plummer Blocks (Bearing Housings)  
For Straight Cylindrical Bore Bearings

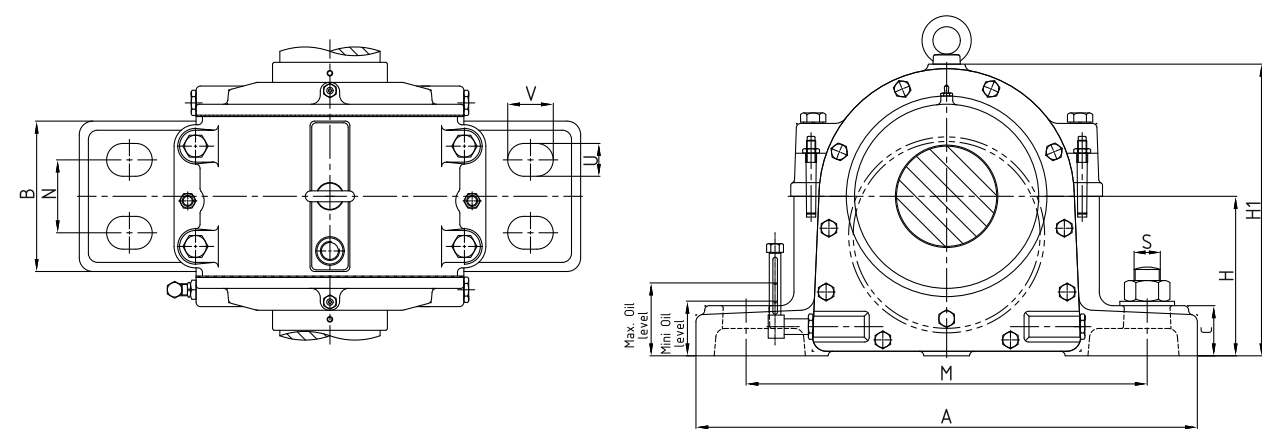


BF TYPE-Through Shaft, Located Bearing  
BL TYPE-Through Shaft, Non-Located Bearing

| Bearing<br>Housing<br>Designation | Shaft Diameter |     |     |         | Housing Dimension in MM |     |     |     |     |     |     |     |     |     |    |    |      |     |     |       | Suitable<br>For<br>Bearing | Oil<br>Level |     |    |    | Approx<br>Weight<br>Kg. |
|-----------------------------------|----------------|-----|-----|---------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|-----|-----|-------|----------------------------|--------------|-----|----|----|-------------------------|
|                                   | d              | d2  | d4  | d5      | A                       | B   | H1  | H   | C   | w   | M   | N   | g   | g1  | V  | U  | S    | Ca  | D   | Max.  |                            | Min.         | s1  | y  |    |                         |
| LOE-220                           | 100            | 110 | 97  | M100x2  | 490                     | 160 | 270 | 150 | 50  | 60  | 400 | 80  | 170 | 250 | 45 | 30 | M-24 | 46  | 180 | 22220 | CC                         | 65           | 50  | 10 | 15 | 67                      |
| LOE-320                           | 100            | 106 | 97  | M100x2  | 550                     | 165 | 320 | 175 | 55  | 72  | 440 | 80  | 175 | 250 | 50 | 36 | M-30 | 73  | 215 | 22320 | CC                         | 75           | 55  | 10 | 15 | 81                      |
| LOE-222                           | 110            | 116 | 107 | M110x2  | 510                     | 165 | 300 | 165 | 50  | 70  | 420 | 80  | 175 | 250 | 45 | 30 | M-24 | 53  | 200 | 22222 | CC                         | 70           | 50  | 10 | 15 | 74                      |
| LOE-322                           | 110            | 120 | 107 | M110x2  | 570                     | 180 | 335 | 180 | 65  | 77  | 460 | 95  | 190 | 270 | 50 | 36 | M-30 | 80  | 240 | 22322 | CC                         | 65           | 45  | 10 | 15 | 100                     |
| LOE-224                           | 120            | 126 | 117 | M120x2  | 550                     | 165 | 320 | 175 | 55  | 72  | 440 | 80  | 175 | 250 | 50 | 36 | M-30 | 58  | 215 | 22224 | CC                         | 70           | 50  | 10 | 15 | 80                      |
| LOE-324                           | 120            | 126 | 117 | M120x2  | 660                     | 200 | 390 | 220 | 75  | 90  | 530 | 110 | 210 | 300 | 60 | 42 | M-36 | 86  | 260 | 22324 | CC                         | 90           | 65  | 10 | 15 | 130                     |
| LOE-226                           | 130            | 136 | 127 | M130x2  | 570                     | 175 | 345 | 190 | 65  | 77  | 460 | 90  | 185 | 260 | 50 | 36 | M-30 | 64  | 230 | 22226 | CC                         | 75           | 55  | 10 | 15 | 93                      |
| LOE-326                           | 130            | 140 | 127 | M130x2  | 660                     | 200 | 420 | 235 | 80  | 86  | 530 | 110 | 220 | 315 | 60 | 42 | M-36 | 93  | 280 | 22236 | CC                         | 105          | 75  | 10 | 15 | 142                     |
| LOE-228                           | 140            | 150 | 137 | M140x2  | 570                     | 175 | 355 | 190 | 65  | 73  | 460 | 100 | 180 | 260 | 50 | 36 | M-30 | 68  | 250 | 22228 | CC                         | 70           | 55  | 10 | 22 | 100                     |
| LOE-328                           | 140            | 146 | 137 | M140x2  | 710                     | 220 | 450 | 260 | 85  | 95  | 580 | 125 | 230 | 325 | 60 | 42 | M-36 | 102 | 300 | 22328 | CC                         | 110          | 80  | 10 | 15 | 170                     |
| LOE-230                           | 150            | 156 | 147 | M150x2  | 660                     | 190 | 395 | 220 | 70  | 82  | 530 | 100 | 200 | 275 | 60 | 42 | M-36 | 73  | 270 | 22230 | CC                         | 90           | 65  | 10 | 15 | 125                     |
| LOE-330                           | 150            | 160 | 147 | M150x2  | 760                     | 200 | 465 | 265 | 85  | 95  | 630 | 125 | 240 | 335 | 60 | 42 | M-36 | 108 | 320 | 22330 | CC                         | 110          | 75  | 10 | 15 | 200                     |
| LOE-232                           | 160            | 166 | 155 | M160x3  | 660                     | 200 | 400 | 220 | 70  | 80  | 530 | 110 | 210 | 290 | 60 | 42 | M-36 | 80  | 290 | 22232 | CC                         | 80           | 60  | 10 | 22 | 136                     |
| LOE-332                           | 160            | 170 | 155 | M160x3  | 820                     | 240 | 485 | 270 | 90  | 100 | 670 | 130 | 250 | 350 | 70 | 48 | M-42 | 114 | 340 | 22332 | CC                         | 105          | 80  | 10 | 15 | 240                     |
| LOE-234                           | 170            | 176 | 165 | M170x3  | 710                     | 200 | 460 | 260 | 85  | 90  | 580 | 110 | 210 | 300 | 60 | 42 | M-36 | 86  | 310 | 22234 | CC                         | 105          | 90  | 10 | 15 | 160                     |
| LOE-334                           | 170            | 180 | 165 | M170x3  | 830                     | 240 | 510 | 280 | 90  | 105 | 670 | 130 | 255 | 350 | 70 | 48 | M-42 | 120 | 360 | 22334 | CC                         | 105          | 80  | 10 | 15 | 270                     |
| LOE-236                           | 180            | 190 | 175 | M180x3  | 710                     | 200 | 465 | 260 | 85  | 90  | 580 | 110 | 210 | 300 | 60 | 42 | M-36 | 86  | 320 | 22236 | CC                         | 110          | 75  | 10 | 22 | 200                     |
| LOE-336                           | 180            | 190 | 175 | M180x3  | 840                     | 240 | 530 | 290 | 90  | 108 | 680 | 130 | 260 | 360 | 70 | 48 | M-42 | 126 | 380 | 22336 | CC                         | 105          | 80  | 10 | 15 | 330                     |
| LOE-238                           | 190            | 196 | 185 | M190x3  | 820                     | 240 | 485 | 270 | 90  | 95  | 670 | 130 | 250 | 350 | 70 | 48 | M-42 | 92  | 340 | 22238 | CC                         | 100          | 70  | 10 | 15 | 230                     |
| LOE-240                           | 200            | 210 | 195 | M200x3  | 830                     | 240 | 510 | 280 | 90  | 100 | 670 | 130 | 260 | 344 | 70 | 48 | M-42 | 98  | 360 | 22240 | CC                         | 100          | 75  | 10 | 15 | 250                     |
| LOE-244                           | 220            | 230 | 212 | Tr220x4 | 880                     | 240 | 565 | 310 | 105 | 108 | 720 | 130 | 280 | 380 | 70 | 48 | M-42 | 108 | 400 | 22244 | CC                         | 110          | 80  | 10 | 15 | 310                     |
| LOE-248                           | 240            | 260 | 235 | Tr240x4 | 980                     | 280 | 615 | 340 | 120 | 120 | 820 | 165 | 300 | 400 | 70 | 48 | M-42 | 120 | 440 | 22248 | CC                         | 125          | 100 | 10 | 22 | 385                     |

LOE 500-600 SERIES

Plummer Blocks (Bearing Housings)  
For Beraings with Adapter Sleeves

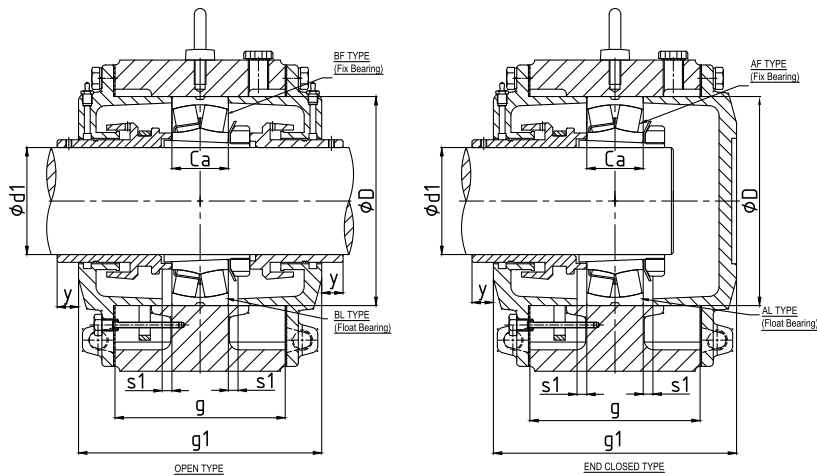


BF TYPE-Through Shaft, Located Bearing  
BL TYPE-Through Shaft, Non-Located Bearing

| Bearing Housing Designation | Shaft Dia<br>d1 | Housing Dimension in MM |     |     |     |    |     |    |     |     |    |    |      |    |     | Bearing Adapter Sleeve |        | Oil level |      |    |    | Approx Weight Kg. |
|-----------------------------|-----------------|-------------------------|-----|-----|-----|----|-----|----|-----|-----|----|----|------|----|-----|------------------------|--------|-----------|------|----|----|-------------------|
|                             |                 | A                       | b   | H1  | H   | C  | M   | N  | g   | g1  | V  | U  | S    | Ca | D   |                        |        | Max.      | Min. |    |    |                   |
| LOE 612                     | 50              | 370                     | 130 | 220 | 125 | 45 | 310 | 80 | 140 | 220 | 30 | 20 | M-16 | 46 | 130 | 22312 CCK              | H 2312 | 65        | 55   | 10 | 22 | 35                |
| LOE 514                     | 60              | 350                     | 110 | 220 | 125 | 45 | 290 | 60 | 120 | 190 | 30 | 20 | M-16 | 31 | 125 | 22214 CCK              | H 314  | 65        | 50   | 5  | 15 | 30                |
| LOE 614                     | 60              | 410                     | 150 | 250 | 135 | 48 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 51 | 150 | 22314 CCK              | H 2314 | 65        | 50   | 10 | 22 | 45                |
| LOE 515                     | 65              | 350                     | 110 | 220 | 125 | 45 | 290 | 60 | 120 | 190 | 30 | 20 | M-16 | 31 | 130 | 22215 CCK              | H 315  | 65        | 50   | 5  | 15 | 35                |
| LOE 516                     | 70              | 410                     | 150 | 245 | 135 | 48 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 33 | 140 | 22216 CCK              | H 316  | 65        | 50   | 10 | 22 | 42                |
| LOE 616                     | 70              | 490                     | 160 | 270 | 150 | 50 | 400 | 80 | 170 | 250 | 45 | 30 | M-24 | 58 | 170 | 22316 CCK              | H 2316 | 70        | 55   | 10 | 22 | 60                |
| LOE 517                     | 75              | 410                     | 150 | 245 | 135 | 48 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 36 | 150 | 22217 CCK              | H 317  | 65        | 50   | 10 | 22 | 45                |
| LOE 617                     | 75              | 490                     | 160 | 270 | 150 | 50 | 400 | 80 | 170 | 250 | 45 | 30 | M-24 | 60 | 180 | 22317 CCK              | H 2317 | 65        | 50   | 10 | 22 | 62                |
| LOE 518                     | 80              | 410                     | 150 | 245 | 135 | 48 | 340 | 80 | 160 | 225 | 35 | 25 | M-20 | 40 | 160 | 22218 CCK              | H 318  | 60        | 43   | 10 | 22 | 47                |
| LOE 618                     | 80              | 500                     | 165 | 305 | 175 | 55 | 420 | 80 | 175 | 250 | 45 | 30 | M-24 | 64 | 190 | 22318 CCK              | H 2318 | 85        | 65   | 10 | 22 | 73                |
| LOE 519                     | 85              | 490                     | 160 | 270 | 150 | 50 | 400 | 80 | 170 | 250 | 45 | 30 | M-24 | 43 | 170 | 22219 CCK              | H 319  | 70        | 55   | 10 | 22 | 60                |

LOE 500-600 SERIES

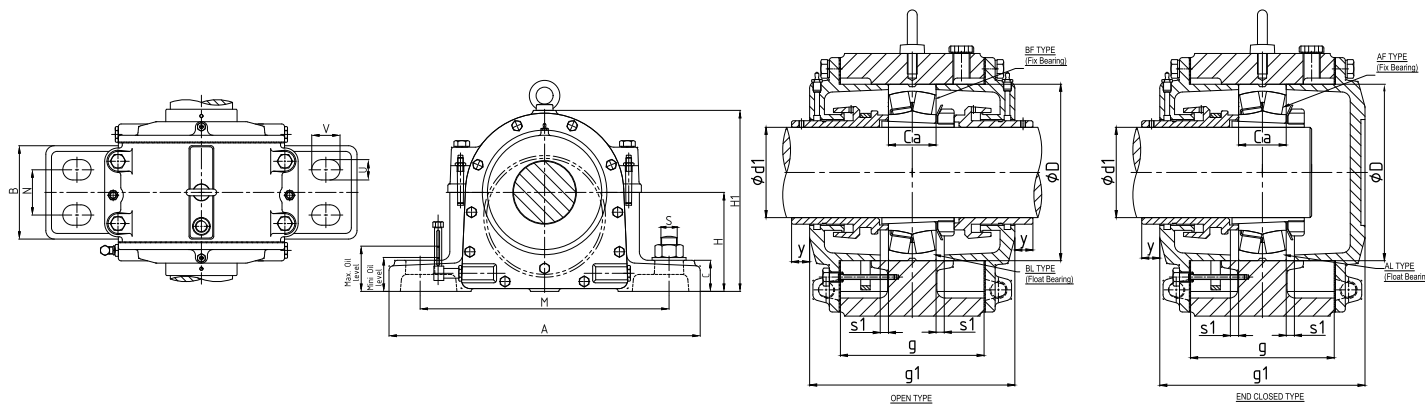
Plummer Blocks (Bearing Housings)  
For Beraings with Adapter Sleeves



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

| Bearing Housing Designation | Shaft Dia<br>d1 | Housing Dimension in MM |     |     |     |    |     |     |     |     |    |    |      |     |     | Bearing Adapter Sleeve | Oil level |      |    |    | Approx Weight Kg. |
|-----------------------------|-----------------|-------------------------|-----|-----|-----|----|-----|-----|-----|-----|----|----|------|-----|-----|------------------------|-----------|------|----|----|-------------------|
|                             |                 | A                       | b   | H1  | H   | C  | M   | N   | g   | g1  | V  | U  | S    | Ca  | D   |                        | Max.      | Min. |    |    |                   |
| LOE 520                     | 90              | 490                     | 160 | 270 | 150 | 50 | 400 | 80  | 170 | 250 | 45 | 30 | M-24 | 46  | 180 | 22220 CCK H 320        | 65        | 50   | 10 | 22 | 67                |
| LOE 620                     | 90              | 550                     | 165 | 320 | 175 | 55 | 440 | 80  | 175 | 250 | 50 | 36 | M-30 | 73  | 215 | 22320 CCK H 2320       | 75        | 55   | 10 | 22 | 81                |
| LOE 522                     | 100             | 510                     | 165 | 300 | 165 | 50 | 420 | 80  | 175 | 250 | 45 | 30 | M-24 | 53  | 200 | 22222 CCK H 322        | 70        | 50   | 10 | 22 | 74                |
| LOE622                      | 100             | 570                     | 180 | 335 | 180 | 65 | 460 | 95  | 190 | 270 | 50 | 36 | M-30 | 80  | 240 | 22322 CCK H 2322       | 65        | 45   | 10 | 22 | 100               |
| LOE524                      | 110             | 550                     | 165 | 320 | 175 | 55 | 440 | 80  | 175 | 250 | 50 | 36 | M-30 | 58  | 215 | 22224 CCK H 3124       | 70        | 50   | 10 | 22 | 80                |
| LOE624                      | 110             | 660                     | 200 | 390 | 220 | 75 | 530 | 110 | 210 | 300 | 60 | 42 | M-36 | 86  | 260 | 22324 CCK H 2324       | 90        | 65   | 10 | 22 | 130               |
| LOE526                      | 115             | 570                     | 175 | 345 | 190 | 65 | 460 | 90  | 185 | 260 | 50 | 36 | M-30 | 64  | 230 | 22226 CCK H 3126       | 75        | 55   | 10 | 22 | 93                |
| LOE626                      | 115             | 660                     | 200 | 420 | 235 | 80 | 530 | 110 | 220 | 315 | 60 | 42 | M-36 | 93  | 280 | 22326 CCK H 2326       | 105       | 75   | 10 | 22 | 142               |
| LOE528                      | 125             | 570                     | 175 | 355 | 190 | 65 | 460 | 100 | 180 | 260 | 50 | 36 | M-30 | 68  | 250 | 22228 CCK H 3128       | 75        | 55   | 10 | 22 | 100               |
| LOE628                      | 125             | 710                     | 220 | 450 | 260 | 85 | 580 | 125 | 230 | 325 | 60 | 42 | M-36 | 102 | 300 | 22328 CCK H 2328       | 110       | 80   | 10 | 22 | 170               |
| LOE530                      | 135             | 660                     | 190 | 395 | 220 | 70 | 530 | 100 | 200 | 275 | 60 | 42 | M-36 | 73  | 270 | 22230 CCK H 3130       | 90        | 65   | 10 | 22 | 125               |
| LOE630                      | 135             | 760                     | 200 | 465 | 265 | 85 | 630 | 125 | 240 | 335 | 60 | 42 | M-36 | 108 | 320 | 22330 CCK H 2330       | 110       | 75   | 10 | 22 | 200               |

## Plummer Blocks (Bearing Housings) For Bearings with Adapter Sleeves



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

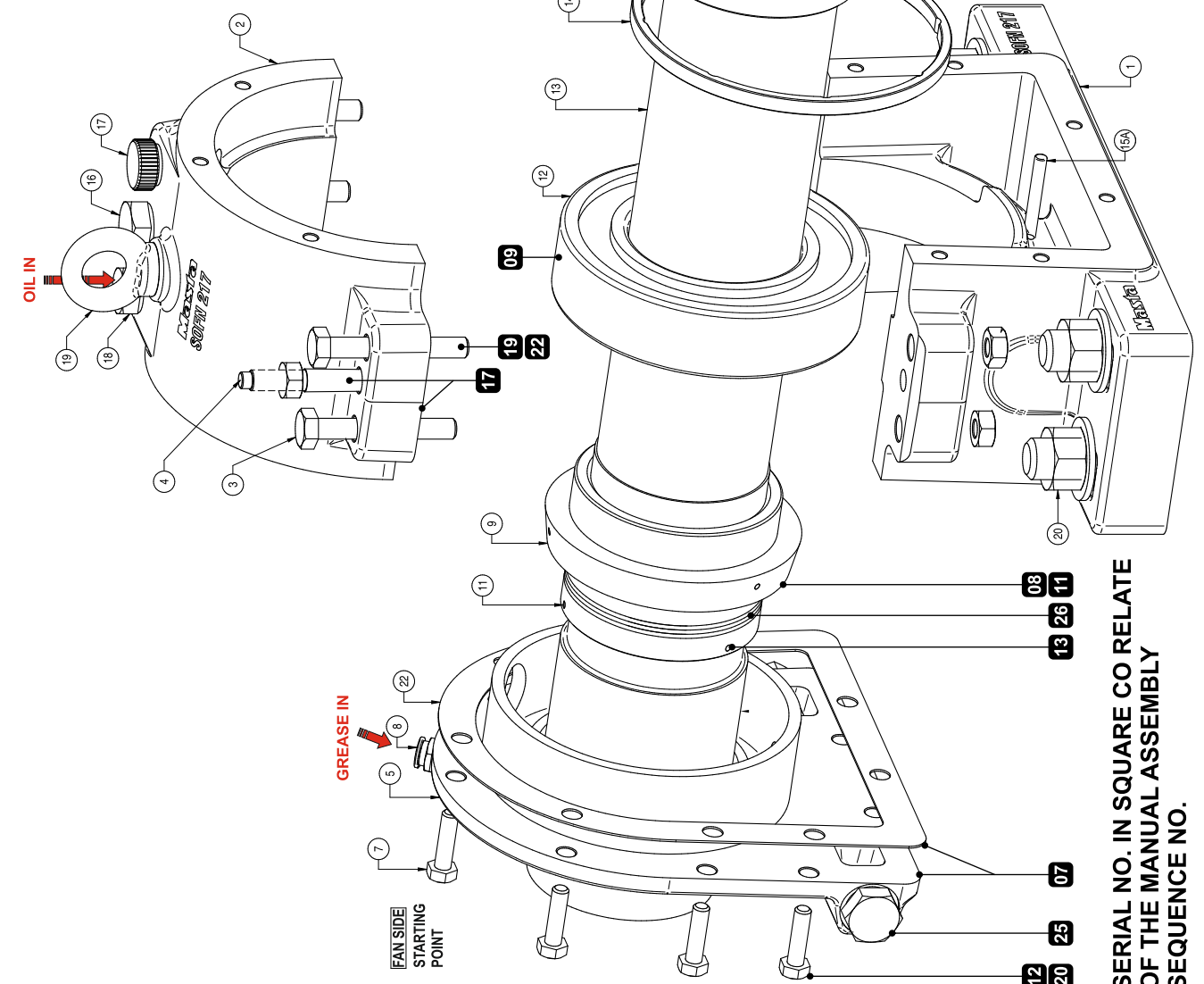
| Bearing Housing Designation | Shaft Dia | Housing Dimension in MM |     |     |     |     |     |     |     |     |    |    |      |     |     |                  |      | Bearing Adapter Sleeve | Oil level |    |     |  | Approx. Weight Kg. |
|-----------------------------|-----------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|------|-----|-----|------------------|------|------------------------|-----------|----|-----|--|--------------------|
|                             | d1        | A                       | b   | H1  | H   | C   | M   | N   | g   | g1  | V  | U  | S    | Ca  | D   | Max.             | Min. |                        | s1        | y  |     |  |                    |
| LOE 532                     | 140       | 660                     | 200 | 400 | 220 | 70  | 530 | 110 | 210 | 290 | 60 | 42 | M-36 | 80  | 290 | 22232 CCK H 3132 | 80   | 60                     | 10        | 22 | 135 |  |                    |
| LOE 632                     | 140       | 820                     | 240 | 485 | 270 | 90  | 670 | 130 | 250 | 350 | 70 | 48 | M-42 | 114 | 340 | 22332 CCK H 2332 | 105  | 80                     | 10        | 22 | 240 |  |                    |
| LOE 534                     | 150       | 710                     | 200 | 460 | 260 | 85  | 580 | 110 | 210 | 300 | 60 | 42 | M-36 | 86  | 310 | 22234 CCK H 3134 | 105  | 80                     | 10        | 22 | 160 |  |                    |
| LOE 634                     | 150       | 830                     | 240 | 510 | 280 | 90  | 670 | 130 | 255 | 350 | 70 | 48 | M-42 | 120 | 360 | 22334 CCK H 2334 | 105  | 80                     | 10        | 22 | 270 |  |                    |
| LOE 536                     | 160       | 710                     | 200 | 465 | 260 | 85  | 580 | 110 | 210 | 300 | 60 | 42 | M-36 | 86  | 320 | 22236 CCK H 3136 | 110  | 75                     | 10        | 22 | 200 |  |                    |
| LOE 636                     | 160       | 840                     | 240 | 530 | 290 | 90  | 680 | 130 | 260 | 360 | 70 | 48 | M-42 | 126 | 380 | 22336 CCK H 2336 | 105  | 80                     | 10        | 22 | 330 |  |                    |
| LOE 538                     | 170       | 820                     | 240 | 485 | 270 | 90  | 670 | 130 | 250 | 350 | 70 | 48 | M-42 | 92  | 340 | 22238 CCK H 3138 | 100  | 70                     | 10        | 22 | 230 |  |                    |
| LOE 540                     | 180       | 830                     | 240 | 510 | 280 | 90  | 670 | 130 | 260 | 344 | 70 | 48 | M-42 | 98  | 360 | 22240 CCK H 3140 | 100  | 75                     | 10        | 22 | 250 |  |                    |
| LOE 544                     | 200       | 880                     | 240 | 565 | 310 | 105 | 720 | 130 | 280 | 380 | 70 | 48 | M-42 | 108 | 400 | 22244 CCK H 3144 | 110  | 80                     | 10        | 22 | 310 |  |                    |
| LOE 548                     | 220       | 980                     | 280 | 625 | 340 | 120 | 820 | 165 | 300 | 400 | 70 | 48 | M-42 | 120 | 440 | 22248 CCK H 3148 | 120  | 100                    | 10        | 22 | 385 |  |                    |

### EXPLODED VIEW OF LOE/SOFN SERIES HOUSING (DRIVE END HOUSING IS SHOWN)



| BILL OF MATERIAL |                              |     |
|------------------|------------------------------|-----|
| Item no.         | Description                  | Qty |
| 1                | Housing Base                 | 01  |
| 2                | Housing Cap                  | 01  |
| 3                | Cap Bolts with Nut           | 02  |
| 4                | Taper Dowel Pin with Nut     | 02  |
| 5                | Open Side Cover Fan Side     | 01  |
| 6                | Open Side Cover Motor Side   | 01  |
| 7                | Cover Bolts                  | 16  |
| 8                | Grease Nipple                | 02  |
| 9                | Labyrinth Collar-Big         | 01  |
| 10               | Labyrinth Collar-Small       | 01  |
| 11               | Grub Screw                   | 06  |
| 12               | Bearing                      | 01  |
| 13               | Shaft                        | 01  |
| 14               | Oil Splash Ring              | 01  |
| 15               | Threaded Pin for Splash Ring | 01  |
| 16               | RTD Plug                     | 01  |
| 17               | Breather Plug                | 01  |
| 18               | Oil Inlet Plug               | 01  |
| 19               | Eye Bolt                     | 01  |
| 20               | Drain Plug                   | 03  |
| 21               | Oil Level Indicator          | 01  |
| 22               | Gasket                       | 02  |

Serial No. in circle  
co-relate Bill of Material



**SERIAL NO. IN SQUARE CO RELATE  
OF THE MANUAL ASSEMBLY  
SEQUENCE NO.**