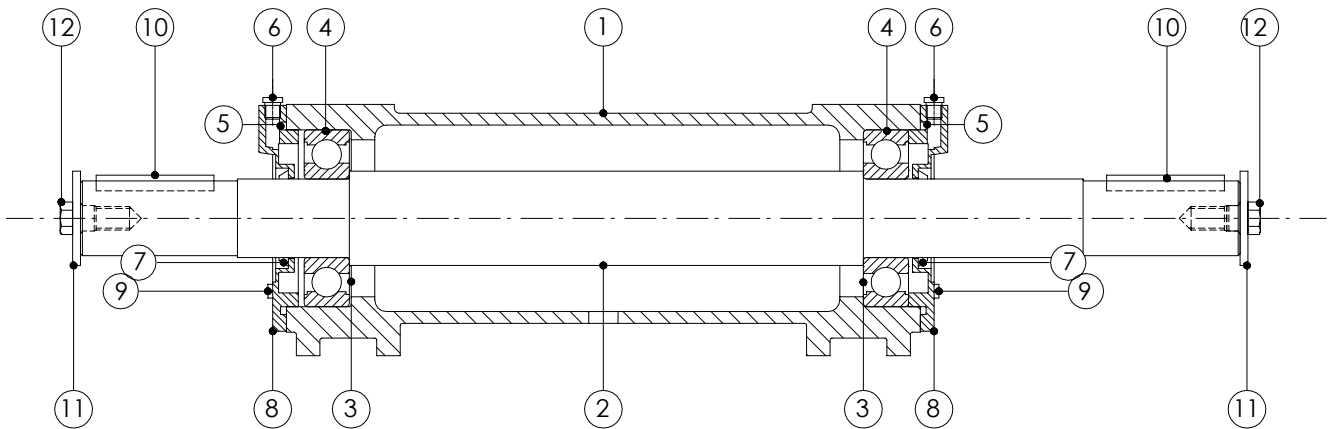
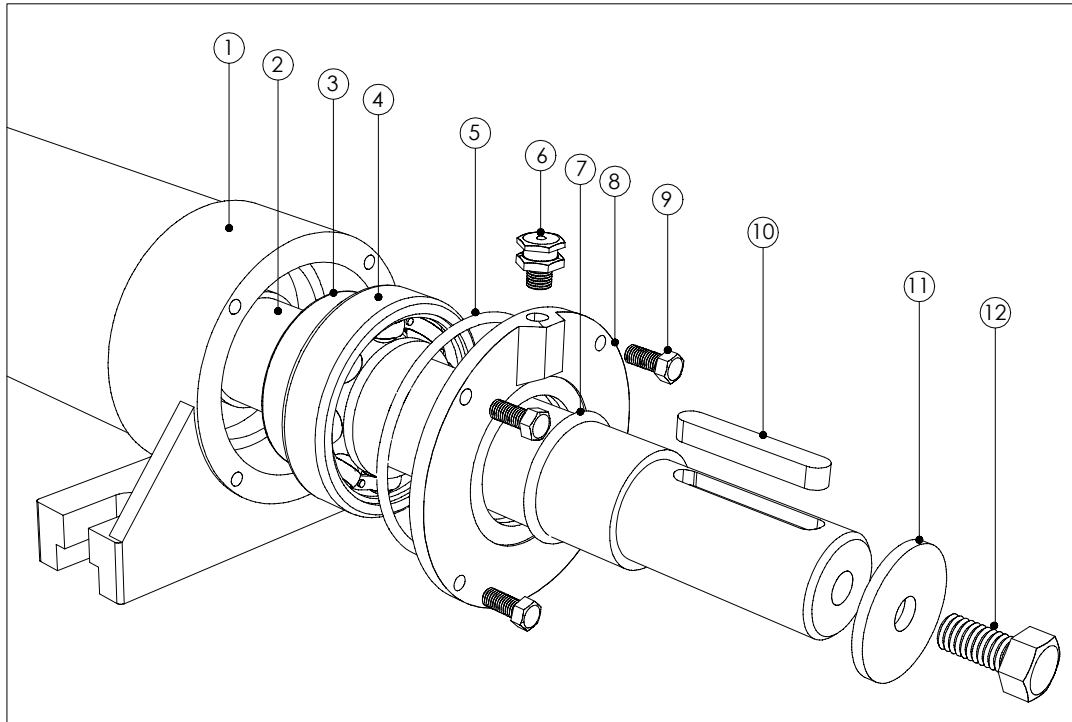
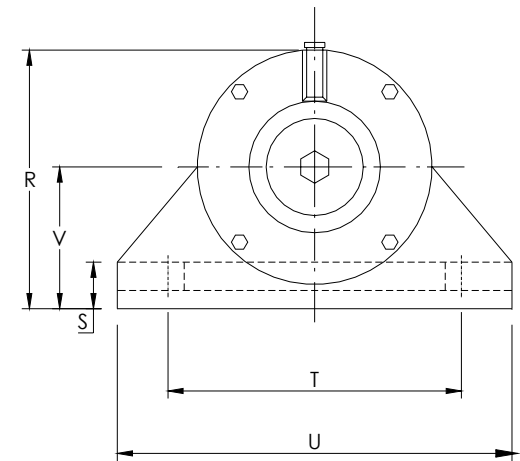
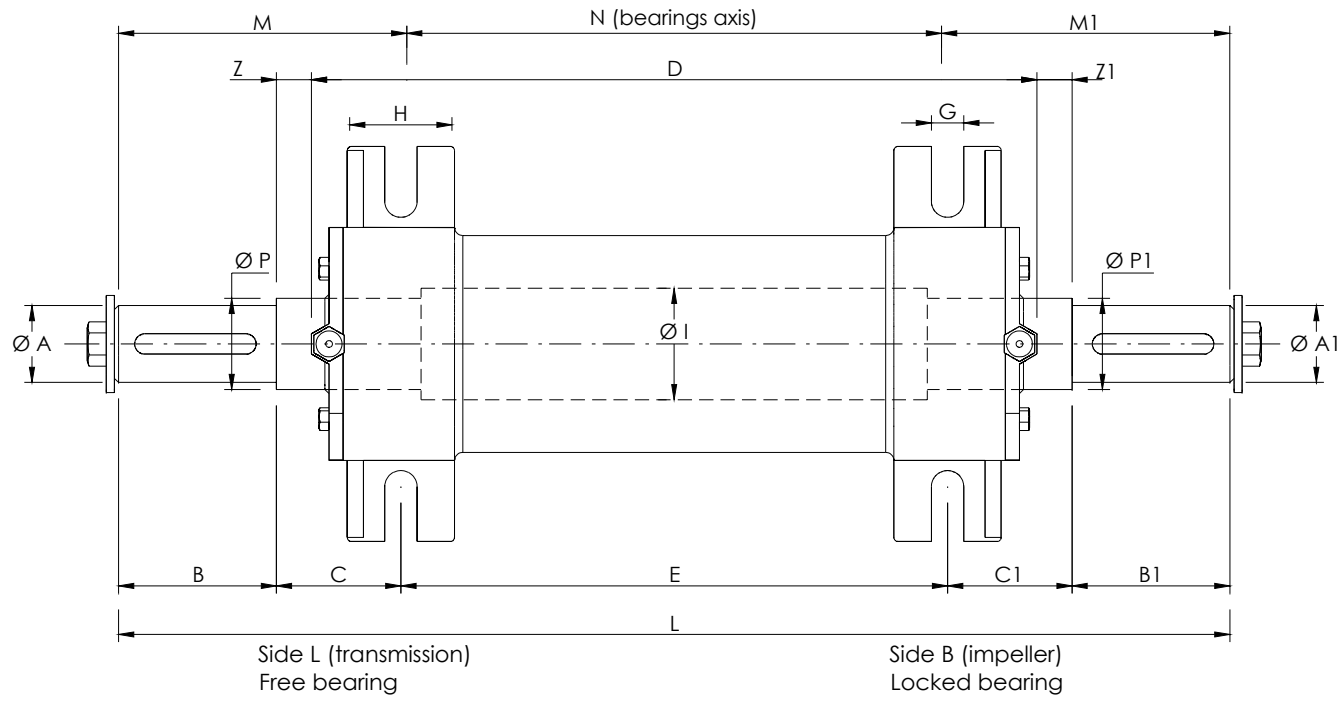


## Grease lubricated monobloc



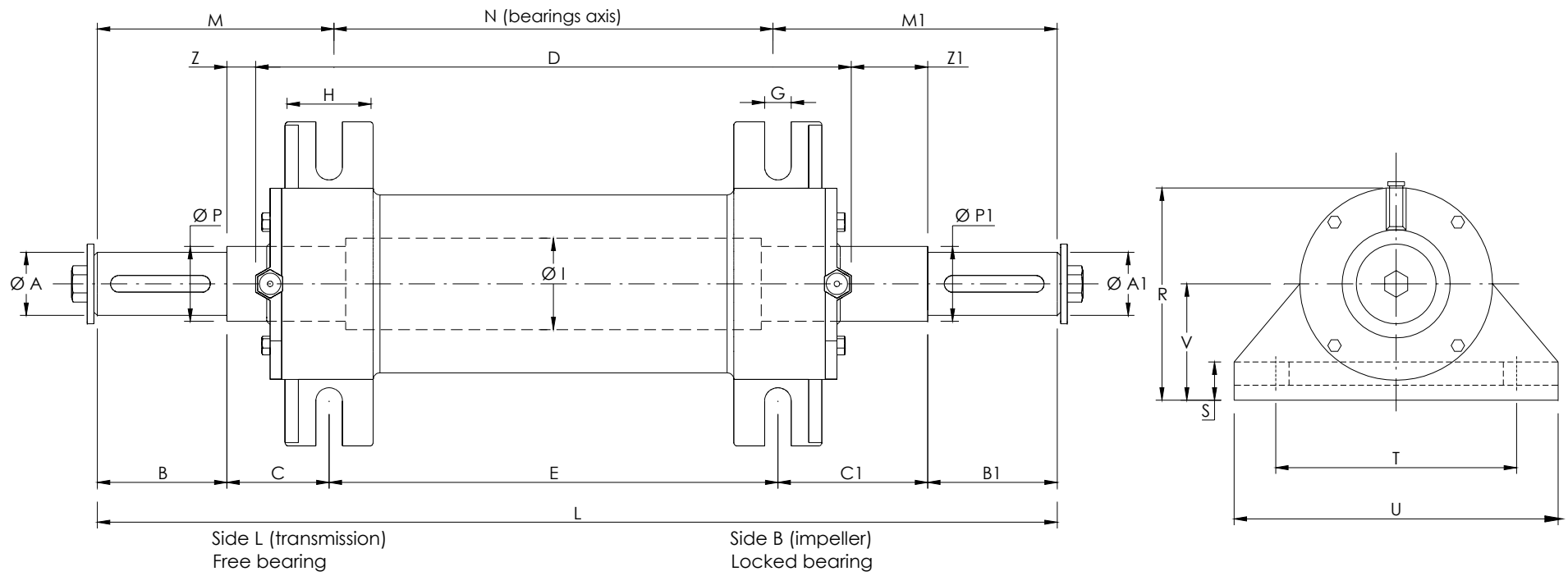
### Details:

- |    |                              |     |                   |
|----|------------------------------|-----|-------------------|
| 1. | Housing – grey cast iron G20 | 7.  | V-ring            |
| 2. | Shaft - steel C45            | 8.  | Cover - aluminium |
| 3. | Flinger ring                 | 9.  | Screw (cover)     |
| 4. | Bearing 63.. series          | 10. | Key               |
| 5. | O-ring                       | 11. | End plate         |
| 6. | Grease nipple                | 12. | Screw (end plate) |



## monobloc OMB N

| TYPE       | $\phi A$<br>$\phi A1$ | B<br>B1 | C    | C1   | D   | E   | G  | H   | $\phi I$ | L    | M     | M1    | N   | $\phi P$<br>$\phi P1$ | R   | S  | T   | U   | V   | Z    | Z1   | Bearing | Screw | End plate  | Key       | Weight<br>kg |
|------------|-----------------------|---------|------|------|-----|-----|----|-----|----------|------|-------|-------|-----|-----------------------|-----|----|-----|-----|-----|------|------|---------|-------|------------|-----------|--------------|
| <b>20</b>  | 19 <sub>j6</sub>      | 40      | 47,5 | 47,5 | 228 | 140 | 13 | 40  | 30       | 315  | 71,5  | 71,5  | 172 | 20                    | 90  | 18 | 140 | 180 | 50  | 3,5  | 3,5  | 6304    | M8    | 8,5x36x4   | 6x6x30    | 7            |
| <b>25</b>  | 24 <sub>j6</sub>      | 50      | 50   | 50   | 281 | 200 | 15 | 50  | 35       | 400  | 88,5  | 88,5  | 223 | 25                    | 105 | 20 | 135 | 180 | 60  | 9,5  | 9,5  | 6305    | M8    | 8,5x36x4   | 8x7x35    | 9            |
| <b>30</b>  | 28 <sub>j6</sub>      | 60      | 50   | 50   | 281 | 200 | 15 | 50  | 40       | 420  | 99,5  | 99,5  | 221 | 30                    | 110 | 20 | 135 | 180 | 60  | 9,5  | 9,5  | 6306    | M8    | 8,5x36x4   | 8x7x45    | 10           |
| <b>35</b>  | 32 <sub>k6</sub>      | 60      | 56   | 56   | 352 | 265 | 15 | 50  | 45       | 497  | 103,5 | 103,5 | 290 | 35                    | 124 | 20 | 145 | 195 | 70  | 12,5 | 12,5 | 6307    | M12   | 12,5x48x4  | 10x8x45   | 14           |
| <b>40</b>  | 38 <sub>k6</sub>      | 80      | 56   | 56   | 351 | 265 | 15 | 50  | 50       | 537  | 125   | 125   | 287 | 40                    | 128 | 20 | 145 | 195 | 70  | 13   | 13   | 6308    | M12   | 12,5x48x4  | 10x8x60   | 17           |
| <b>45</b>  | 42 <sub>k6</sub>      | 110     | 60   | 60   | 434 | 340 | 15 | 60  | 55       | 680  | 156   | 156   | 368 | 45                    | 150 | 20 | 150 | 200 | 80  | 13   | 13   | 6309    | M16   | 16,5x63x5  | 12x8x90   | 24           |
| <b>50</b>  | 48 <sub>k6</sub>      | 110     | 60   | 60   | 435 | 340 | 15 | 60  | 60       | 680  | 156,5 | 156,5 | 367 | 50                    | 150 | 20 | 150 | 200 | 80  | 12,5 | 12,5 | 6310    | M16   | 16,5x63x5  | 14x9x90   | 26           |
| <b>55</b>  | 48 <sub>k6</sub>      | 110     | 86   | 86   | 571 | 448 | 18 | 80  | 65       | 840  | 169,5 | 169,5 | 501 | 55                    | 165 | 24 | 180 | 230 | 90  | 24,5 | 24,5 | 6311    | M16   | 16,5x85x6  | 14x9x90   | 40           |
| <b>60</b>  | 55 <sub>m6</sub>      | 110     | 86   | 86   | 570 | 448 | 18 | 80  | 70       | 840  | 171   | 171   | 498 | 60                    | 175 | 24 | 180 | 230 | 90  | 25   | 25   | 6312    | M16   | 16,5x85x6  | 16x10x90  | 48           |
| <b>65</b>  | 60 <sub>m6</sub>      | 140     | 75   | 75   | 574 | 448 | 20 | 90  | 75       | 878  | 191   | 191   | 496 | 65                    | 184 | 24 | 190 | 250 | 100 | 12   | 12   | 6313    | M16   | 16,5x85x6  | 18x11x120 | 55           |
| <b>70</b>  | 65 <sub>m6</sub>      | 140     | 75   | 75   | 574 | 448 | 20 | 90  | 80       | 878  | 192   | 192   | 494 | 70                    | 190 | 24 | 190 | 250 | 100 | 12   | 12   | 6314    | M16   | 16,5x85x6  | 18x11x120 | 59           |
| <b>75</b>  | 70 <sub>m6</sub>      | 150     | 85   | 85   | 594 | 460 | 22 | 100 | 85       | 930  | 209   | 209   | 512 | 75                    | 202 | 28 | 280 | 355 | 100 | 18   | 18   | 6315    | M20   | 20,5x100x8 | 20x12x130 | 84           |
| <b>80</b>  | 75 <sub>m6</sub>      | 150     | 85   | 85   | 598 | 460 | 22 | 100 | 90       | 930  | 210   | 210   | 510 | 80                    | 202 | 28 | 280 | 355 | 100 | 16   | 16   | 6316    | M20   | 20,5x100x8 | 20x12x130 | 89           |
| <b>85</b>  | 80 <sub>m6</sub>      | 170     | 90   | 90   | 741 | 580 | 22 | 120 | 95       | 1100 | 224,5 | 224,5 | 651 | 85                    | 270 | 34 | 280 | 360 | 145 | 9,5  | 9,5  | 6317    | M20   | 20,5x100x8 | 22x14x150 | 161          |
| <b>90</b>  | 85 <sub>m6</sub>      | 170     | 90   | 90   | 741 | 580 | 22 | 120 | 100      | 1100 | 225,5 | 225,5 | 649 | 90                    | 270 | 34 | 280 | 360 | 145 | 9,5  | 9,5  | 6318    | M20   | 20,5x100x8 | 22x14x150 | 167          |
| <b>95</b>  | 90 <sub>m6</sub>      | 170     | 90   | 90   | 741 | 580 | 22 | 120 | 105      | 1100 | 226,5 | 226,5 | 647 | 95                    | 270 | 34 | 280 | 360 | 145 | 9,5  | 9,5  | 6319    | M20   | 20,5x110x8 | 25x14x150 | 175          |
| <b>100</b> | 95 <sub>m6</sub>      | 170     | 90   | 90   | 741 | 580 | 22 | 120 | 110      | 1100 | 227,5 | 227,5 | 645 | 100                   | 270 | 34 | 280 | 360 | 145 | 9,5  | 9,5  | 6320    | M20   | 20,5x110x8 | 25x14x150 | 184          |



## monobloc OMB CV

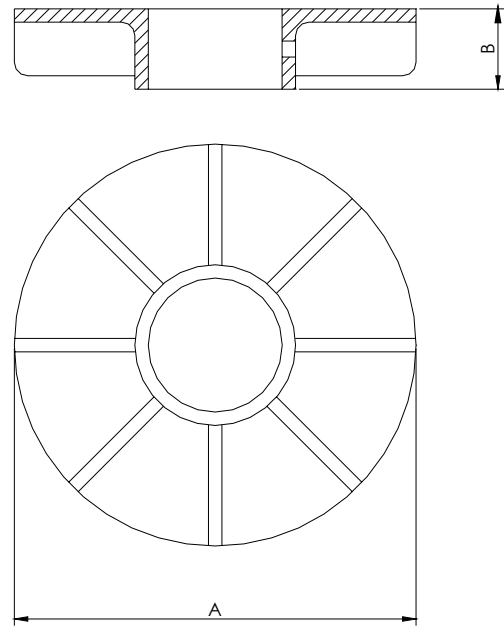
| TYPE      | $\phi A$<br>$\phi A1$ | B<br>B1 | C    | C1   | D   | E   | G  | H  | $\phi I$ | L   | M     | M1    | N   | $\phi P$<br>$\phi P1$ | R   | S  | T   | U   | V   | Z    | Z1   | Bearing | Screw | End plate | Key       | Weight<br>kg |
|-----------|-----------------------|---------|------|------|-----|-----|----|----|----------|-----|-------|-------|-----|-----------------------|-----|----|-----|-----|-----|------|------|---------|-------|-----------|-----------|--------------|
| <b>20</b> | 19 <sub>j6</sub>      | 40      | 47,5 | 79,5 | 228 | 140 | 13 | 40 | 30       | 347 | 71,5  | 103,5 | 172 | 20                    | 90  | 18 | 140 | 180 | 50  | 3,5  | 35,5 | 6304    | M8    | 8,5x36x4  | 6x6x30    | 7            |
| <b>25</b> | 24 <sub>j6</sub>      | 50      | 50   | 80   | 281 | 200 | 15 | 50 | 35       | 430 | 88,5  | 118,5 | 223 | 25                    | 105 | 20 | 135 | 180 | 60  | 9,5  | 39,5 | 6305    | M8    | 8,5x36x4  | 8x7x35    | 9            |
| <b>30</b> | 28 <sub>j6</sub>      | 60      | 50   | 90   | 281 | 200 | 15 | 50 | 40       | 460 | 99,5  | 139,5 | 221 | 30                    | 110 | 20 | 135 | 180 | 60  | 9,5  | 49,5 | 6306    | M8    | 8,5x36x4  | 8x7x45    | 10           |
| <b>35</b> | 32 <sub>k6</sub>      | 60      | 56   | 100  | 352 | 265 | 15 | 50 | 45       | 541 | 103,5 | 147,5 | 290 | 35                    | 124 | 20 | 145 | 195 | 70  | 12,5 | 56,5 | 6307    | M12   | 12,5x48x4 | 10x8x45   | 14,5         |
| <b>40</b> | 38 <sub>k6</sub>      | 80      | 56   | 110  | 351 | 265 | 15 | 50 | 50       | 591 | 125   | 179   | 287 | 40                    | 128 | 20 | 145 | 195 | 70  | 13   | 67   | 6308    | M12   | 12,5x48x4 | 10x8x60   | 17,5         |
| <b>45</b> | 42 <sub>k6</sub>      | 110     | 60   | 110  | 434 | 340 | 15 | 60 | 55       | 730 | 156   | 206   | 368 | 45                    | 150 | 20 | 150 | 200 | 80  | 13   | 63   | 6309    | M16   | 16,5x63x5 | 12x8x90   | 24,5         |
| <b>50</b> | 48 <sub>k6</sub>      | 110     | 60   | 110  | 435 | 340 | 15 | 60 | 60       | 730 | 156,5 | 206,5 | 367 | 50                    | 150 | 20 | 150 | 200 | 80  | 12,5 | 62,5 | 6310    | M16   | 16,5x63x5 | 14x9x90   | 28           |
| <b>55</b> | 48 <sub>k6</sub>      | 110     | 86   | 140  | 571 | 448 | 18 | 80 | 65       | 894 | 169,5 | 223,5 | 501 | 55                    | 165 | 24 | 180 | 230 | 90  | 24,5 | 78,5 | 6311    | M16   | 16,5x85x6 | 14x9x90   | 42           |
| <b>60</b> | 55 <sub>m6</sub>      | 110     | 86   | 140  | 570 | 448 | 18 | 80 | 70       | 894 | 171   | 225   | 498 | 60                    | 175 | 24 | 180 | 230 | 90  | 25   | 79   | 6312    | M16   | 16,5x85x6 | 16x10x90  | 50           |
| <b>65</b> | 60 <sub>m6</sub>      | 140     | 86   | 140  | 574 | 448 | 20 | 90 | 75       | 954 | 202   | 256   | 496 | 65                    | 184 | 24 | 190 | 250 | 100 | 23   | 77   | 6313    | M16   | 16,5x85x6 | 18x11x120 | 55           |
| <b>70</b> | 65 <sub>m6</sub>      | 140     | 86   | 140  | 574 | 448 | 20 | 90 | 80       | 954 | 203   | 257   | 494 | 70                    | 190 | 24 | 190 | 250 | 100 | 23   | 77   | 6314    | M16   | 16,5x85x6 | 18x11x120 | 59           |

## monobloc OMB L

| TYPE      | $\phi A$<br>$\phi A1$ | B<br>B1 | C   | C1  | D   | E   | G  | H   | $\phi I$ | L    | M     | M1    | N   | $\phi P$<br>$\phi P1$ | R   | S  | T   | U   | V   | Z    | Z1   | Bearing | Screw | End plate  | Key       | Weight<br>kg |
|-----------|-----------------------|---------|-----|-----|-----|-----|----|-----|----------|------|-------|-------|-----|-----------------------|-----|----|-----|-----|-----|------|------|---------|-------|------------|-----------|--------------|
| <b>30</b> | 28 <sub>j6</sub>      | 60      | 50  | 50  | 471 | 390 | 15 | 50  | 40       | 610  | 99,5  | 99,5  | 411 | 30                    | 100 | 10 | 125 | 180 | 50  | 9,5  | 9,5  | 6306    | M8    | 8,5x36x4   | 8x7x45    | 15           |
| <b>35</b> | 32 <sub>k6</sub>      | 80      | 50  | 70  | 537 | 450 | 15 | 50  | 45       | 730  | 117,5 | 137,5 | 475 | 35                    | 120 | 15 | 145 | 195 | 65  | 6,5  | 26,5 | 6307    | M12   | 12,5x48x4  | 10x8x45   | 20           |
| <b>40</b> | 38 <sub>k6</sub>      | 80      | 50  | 70  | 537 | 450 | 15 | 50  | 50       | 730  | 118,5 | 138,5 | 473 | 40                    | 123 | 15 | 145 | 195 | 65  | 6,5  | 26,5 | 6308    | M12   | 12,5x48x4  | 10x8x60   | 24           |
| <b>45</b> | 42 <sub>k6</sub>      | 110     | 60  | 80  | 495 | 400 | 15 | 60  | 45       | 760  | 155,5 | 175,5 | 429 | 45                    | 145 | 15 | 155 | 200 | 75  | 12,5 | 32,5 | 6309    | M16   | 16,5x63x5  | 12x8x90   | 30           |
| <b>50</b> | 48 <sub>k6</sub>      | 110     | 60  | 80  | 494 | 400 | 15 | 60  | 60       | 760  | 157   | 177   | 426 | 50                    | 145 | 15 | 155 | 200 | 75  | 13   | 33   | 6310    | M16   | 16,5x63x5  | 14x9x90   | 33           |
| <b>55</b> | 48 <sub>k6</sub>      | 110     | 80  | 100 | 571 | 450 | 18 | 80  | 65       | 850  | 164,5 | 184,5 | 501 | 55                    | 165 | 24 | 180 | 230 | 90  | 19,5 | 39,5 | 6311    | M16   | 16,5x85x6  | 14x9x90   | 40           |
| <b>60</b> | 55 <sub>m6</sub>      | 110     | 105 | 125 | 570 | 450 | 18 | 80  | 70       | 900  | 191   | 211   | 498 | 60                    | 175 | 24 | 180 | 230 | 90  | 45   | 65   | 6312    | M16   | 16,5x85x6  | 16x10x90  | 48           |
| <b>65</b> | 60 <sub>m6</sub>      | 140     | 110 | 130 | 676 | 550 | 20 | 90  | 75       | 1070 | 226   | 246   | 598 | 65                    | 190 | 29 | 220 | 290 | 105 | 47   | 67   | 6313    | M16   | 16,5x85x6  | 18x11x120 | 65           |
| <b>70</b> | 65 <sub>m6</sub>      | 140     | 120 | 150 | 676 | 550 | 20 | 90  | 80       | 1100 | 237   | 267   | 596 | 70                    | 195 | 29 | 220 | 290 | 105 | 57   | 87   | 6314    | M16   | 16,5x85x6  | 18x11x120 | 70           |
| <b>75</b> | 70 <sub>m6</sub>      | 140     | 135 | 160 | 797 | 650 | 22 | 100 | 85       | 1225 | 242,5 | 267,5 | 715 | 75                    | 230 | 28 | 280 | 385 | 115 | 61,5 | 86,5 | 6315    | M20   | 20,5x100x8 | 20x12x130 | 100          |
| <b>80</b> | 75 <sub>m6</sub>      | 140     | 135 | 160 | 801 | 650 | 22 | 100 | 90       | 1225 | 243,5 | 268,5 | 713 | 80                    | 230 | 28 | 280 | 385 | 115 | 59,5 | 84,5 | 6316    | M20   | 20,5x100x8 | 20x12x130 | 115          |
| <b>85</b> | 80 <sub>m6</sub>      | 170     | 145 | 165 | 801 | 650 | 22 | 100 | 95       | 1300 | 284,5 | 304,5 | 711 | 85                    | 245 | 38 | 280 | 385 | 130 | 69,5 | 89,5 | 6317    | M20   | 20,5x100x8 | 22x14x150 | 180          |
| <b>90</b> | 85 <sub>m6</sub>      | 170     | 145 | 165 | 801 | 650 | 22 | 100 | 100      | 1300 | 285,5 | 305,5 | 709 | 90                    | 245 | 38 | 280 | 385 | 130 | 69,5 | 89,5 | 6318    | M20   | 20,5x100x8 | 22x14x150 | 195          |

**Cooling fan**

|             | Type | A   | B  |
|-------------|------|-----|----|
| OMB 20      | 1    | 70  | 20 |
| OMB 20      | 2    | 90  | 22 |
| OMB 25 - 30 | 3    | 110 | 26 |
| OMB 35 - 40 | 4    | 130 | 27 |
| OMB 45 - 50 | 5    | 150 | 30 |
| OMB 55 - 60 | 6    | 170 | 30 |
| OMB 65 - 80 | 7    | 190 | 30 |
| OMB 85      | 8    | 215 | 32 |

**Special applications**

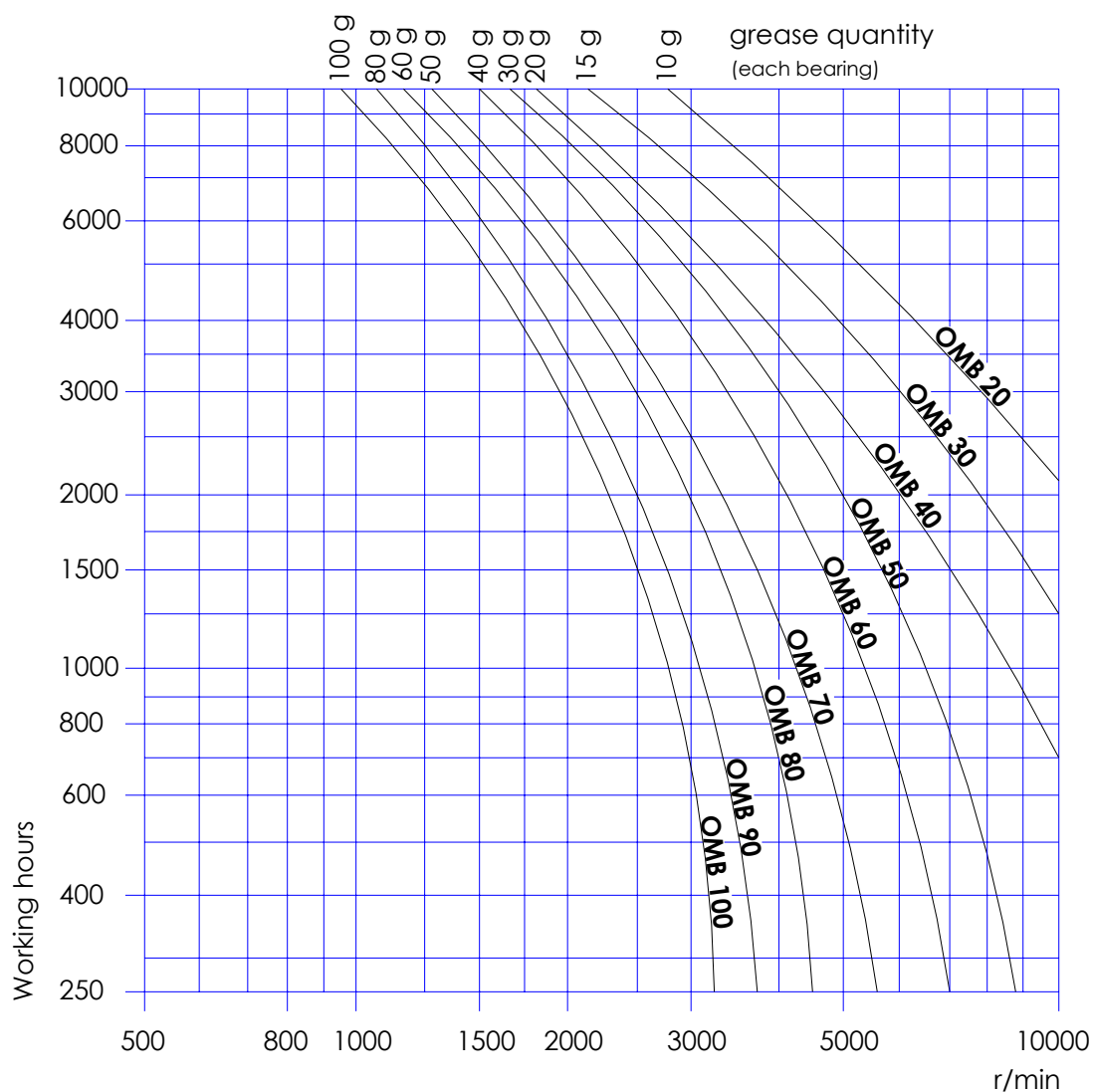
On demand, monoblocs can be produced with different dimensions and bearings, inox or drilled shaft, special seals, arrangement for vibration and temperature feelers.

## Relubrication

Monoblocs are pre-lubricated using a lithium grease containing EP additives, consistency NLGI 2, base oil viscosity  $\nu=150 \text{ mm}^2/\text{s}$ , temperature range  $-20^\circ\text{C} +120^\circ\text{C}$ .

The presence of grease inside the bearing is assured externally by the aluminium cover and internally by the flinger ring, but it's necessary to relubricate regularly (see the diagram below).

There are no risks of over-lubrication because grease exceeding is pushed out toward the centre of housing, where there is a draining hole that also acts as anti-condensation blowhole.



Recommended greases:

ROL OIL LITEX EP2, ELF EPEXA 2, AGIP GR/MU EP-2, ESSO BEACON EP-2, SHELL ALVANIA EP-2, BP LTX-EP-2, MOBIL MOBILUX EP-2, SKF LG EP-2, FAG L71.

### Selection

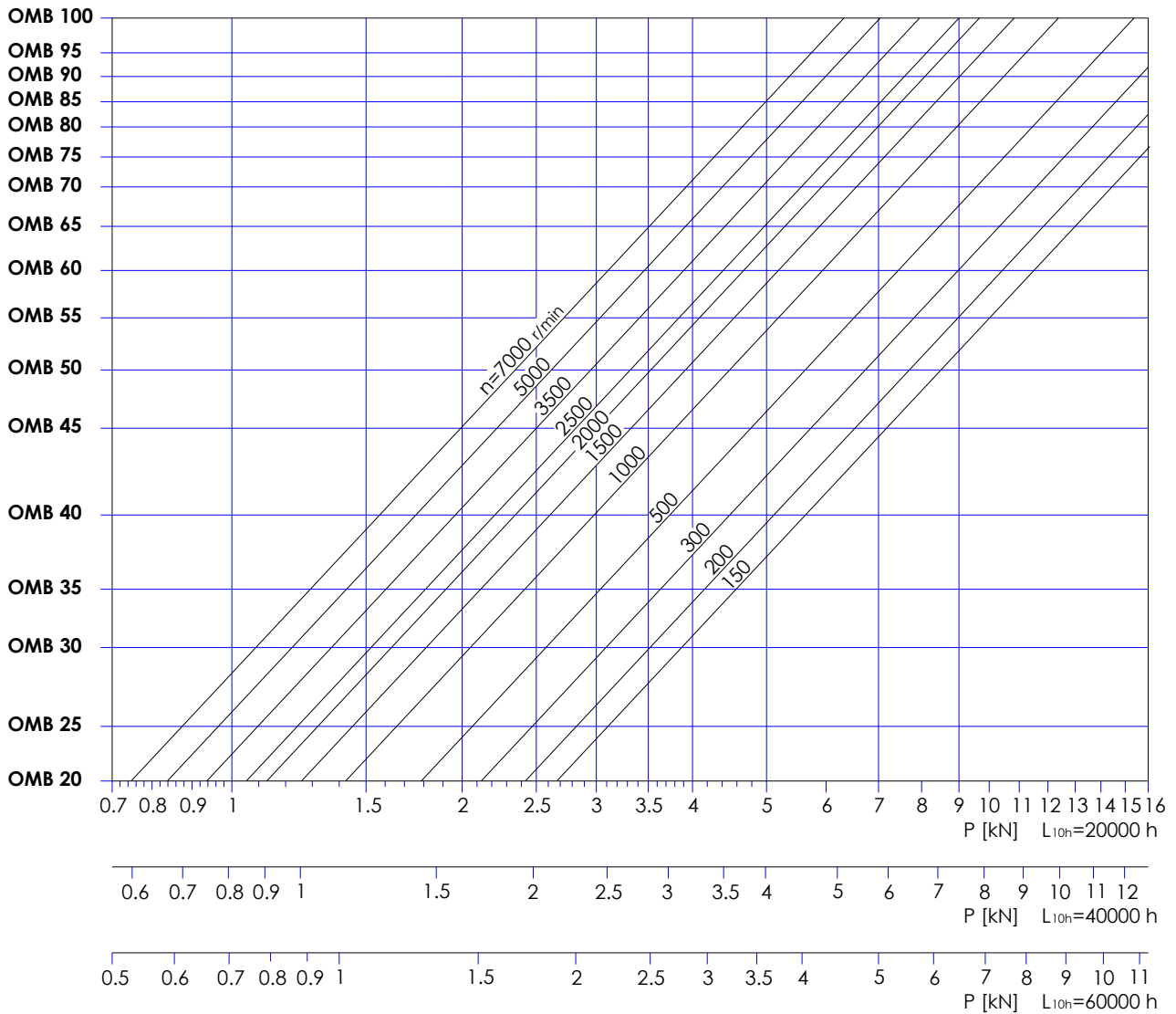
Selection of monoblocs is based on choice of bearings, consequently on load, speed and basic rating life required.

For the most frequent application of industrial fan, following loads are to consider:

- shaft weight, impeller weight (with its dynamic unbalance), pulley or joint weight.
- Shear force in belt drive, radial force in joint drive.
- Axial load on locked bearing generated by fan.

Once calculated total loads on bearings, it's possible to check bearing life, minimum and maximum load, critical speed.

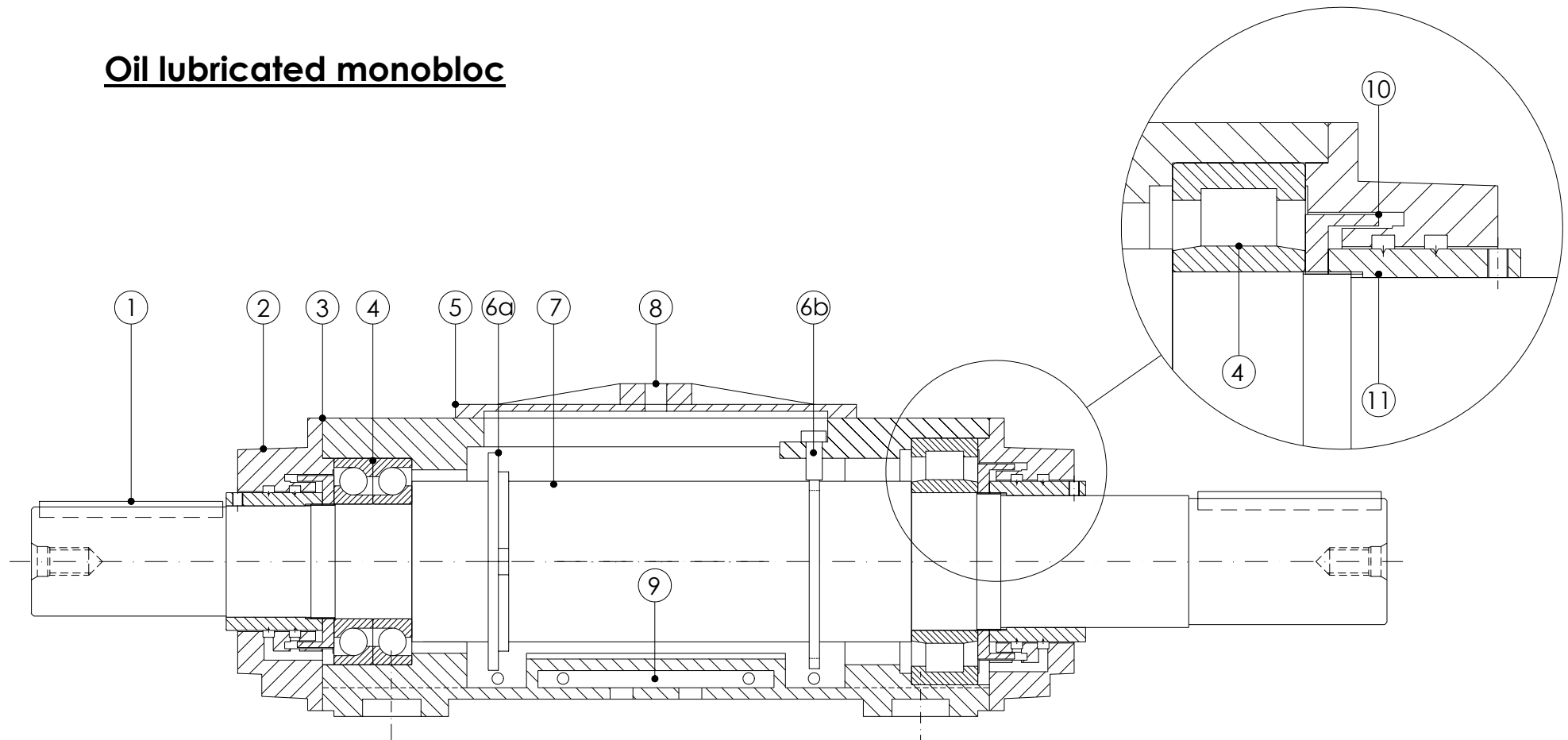
The diagram below let you choose easily the monobloc by equivalent load on the most stressed bearing, by basic rating life required and by speed.





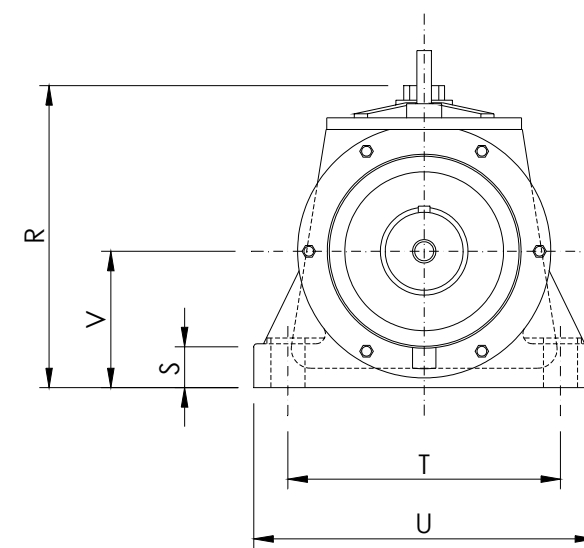
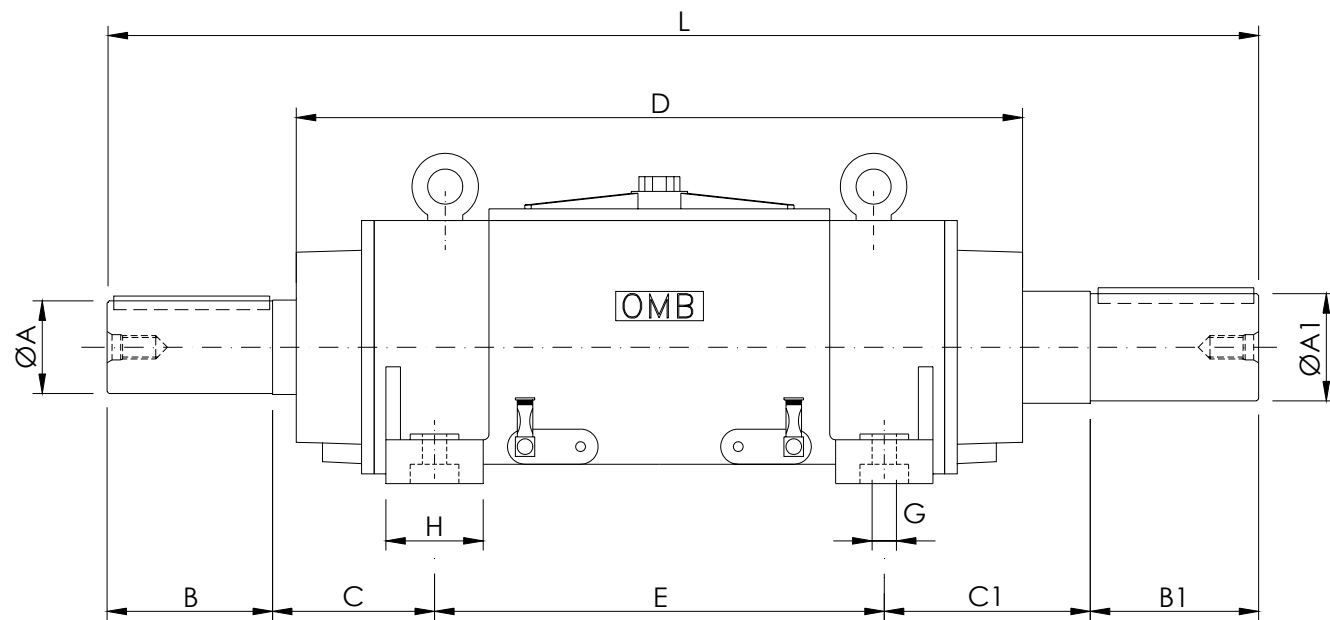


## Oil lubricated monobloc



### Details:

- |                                                                    |                                 |
|--------------------------------------------------------------------|---------------------------------|
| 1. Key                                                             | 7. Shaft – (material on demand) |
| 2. Side cover - grey cast iron G25                                 | 8. Oil filling plug             |
| 3. Housing – grey cast iron G25                                    | 9. Cooling tank                 |
| 4. Bearings set (several pairings possible)                        | 10. Centrifugating ring         |
| 5. Upper cover - grey cast iron G25                                | 11. Sleeve                      |
| 6. a) Oil spreading disk – b) Oil recovering ring (on your choice) |                                 |



|                        | D    | E   | G  | H   | R   | S  | T   | U   | V   | bearing<br>øext. |
|------------------------|------|-----|----|-----|-----|----|-----|-----|-----|------------------|
| OMB 75/100<br>mod.95   | 740  | 460 | 25 | 105 | 290 | 40 | 280 | 350 | 135 | 160-215          |
| OMB 100/140<br>mod.130 | 1114 | 720 | 30 | 150 | 410 | 58 | 440 | 520 | 180 | 215-300          |

Not specified dimensions are variable on demand.

