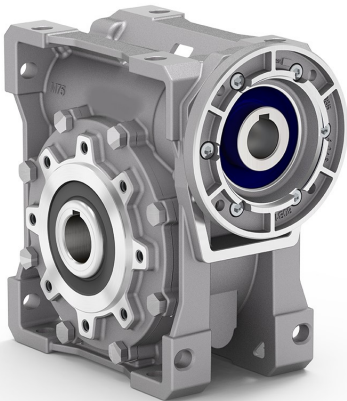


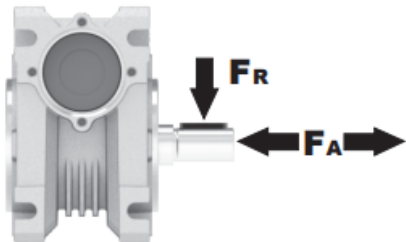
|                    |        |     |
|--------------------|--------|-----|
| MODEL              | UMSG90 |     |
| Ø OUTPUT SHAFT     | 35     | mm  |
| APPROXIMATE RATIO  | 15     |     |
| EXACT RATIO        | 15.00  |     |
| OUTPUT SPEED       | 97     | RPM |
| EXACT OUTPUT SPEED | 97     | RPM |
| INPUT POWER        | 1.50   | KW  |
| INPUT ROTATION     | 1400   | RPM |
| INPUT PAM          | 90B14  |     |
| OUTPUT TORQUE      | 131.98 | N.m |
| NOMINAL TORQUE     | 360.76 | N.m |
| NOMINAL POWER      | 4.1    | KW  |
| SERVICE FACTOR     | 2.73   |     |
| DYNAMIC EFFICIENCY | 0.86   |     |



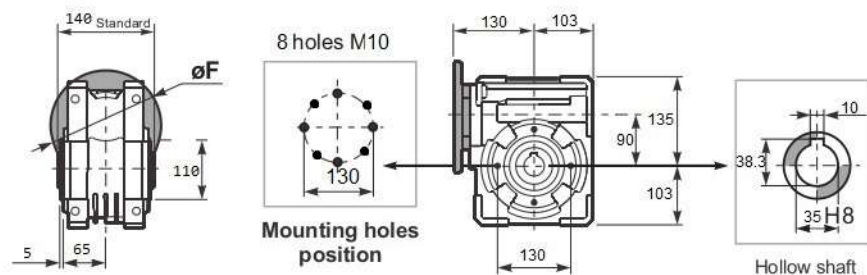
Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 1     | 1     | 1     | 1     | 1     | 1     |

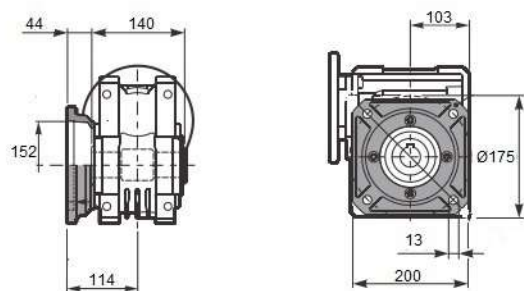
Radial and Axial Loads



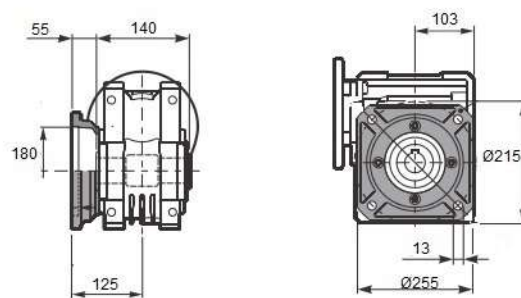
| n <sub>2</sub> [min-1] | FA [N] | FR [N] |
|------------------------|--------|--------|
| 200                    | 500    | 2500   |
| 100                    | 600    | 3000   |
| 50                     | 800    | 4000   |
| 15                     | 1160   | 5800   |



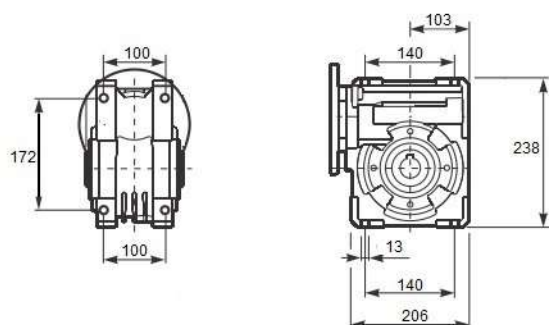
## Square flange FA



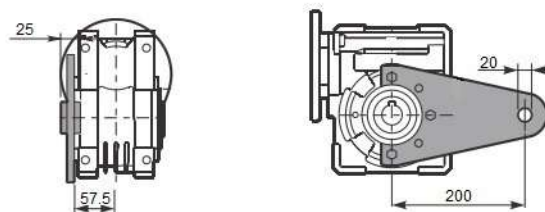
## Round flange FB



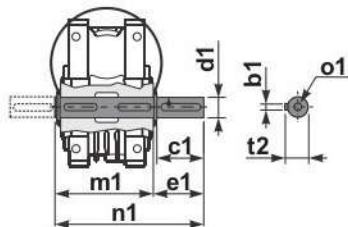
## Feet



## Reaction arm



## Single Shaft



| b1 | c1 | d1 | e1   | m1  | n1  | t2 | o1  |
|----|----|----|------|-----|-----|----|-----|
| 10 | 80 | 35 | 84.5 | 140 | 234 | 38 | M12 |

| 1400 rpm | N2  | Relação | P1   | FS  | P1n  | M2  | Rend. | Fr max | Veio    |       | Flanges de entrada |        |         |
|----------|-----|---------|------|-----|------|-----|-------|--------|---------|-------|--------------------|--------|---------|
|          | rpm | i       | kW   |     | kW   | Nm  | %     | N      | Entrada | Saída | 80                 | 90     | 100/112 |
|          | 187 | 7,5     | 5,5  | 1,1 | 6,3  | 287 | 0,9   | 3081   | 28      | 35    |                    | B14/B5 | B14/B5  |
|          | 140 | 10      | 5,5  | 0,9 | 5,1  | 306 | 0,89  | 3391   |         |       |                    | B14/B5 | B14/B5  |
|          | 93  | 15      | 4    | 1,0 | 4,1  | 357 | 0,86  | 3882   |         |       |                    | B14/B5 | B14/B5  |
|          | 70  | 20      | 3    | 1,0 | 3,1  | 351 | 0,84  | 4273   |         |       |                    | B14/B5 | B14/B5  |
|          | 56  | 25      | 2,2  | 1,1 | 2,4  | 332 | 0,82  | 4603   |         |       |                    | B14/B5 | B14/B5  |
|          | 47  | 30      | 2,2  | 1,2 | 2,6  | 415 | 0,78  | 4891   |         |       |                    | B14/B5 | B14/B5  |
|          | 35  | 40      | 1,5  | 1,2 | 1,8  | 363 | 0,75  | 5383   | 24      | 19    |                    | B14/B5 | B14/B5  |
|          | 28  | 50      | 1,1  | 1,3 | 1,4  | 339 | 0,72  | 5799   |         |       |                    | B14/B5 | B14/B5  |
|          | 23  | 60      | 1,1  | 1,0 | 1,1  | 307 | 0,69  | 6163   |         |       |                    | B14/B5 | B14/B5  |
|          | 18  | 80      | 0,75 | 1,1 | 0,83 | 285 | 0,63  | 6783   |         |       |                    | B14/B5 | B14/B5  |
|          | 14  | 100     | 0,55 | 1,2 | 0,67 | 270 | 0,59  | 7306   |         |       |                    | B14/B5 | B14/B5  |