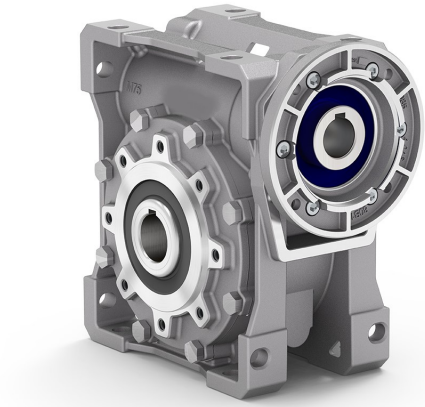
Technical Data Sheet
Gearbox
UMSG

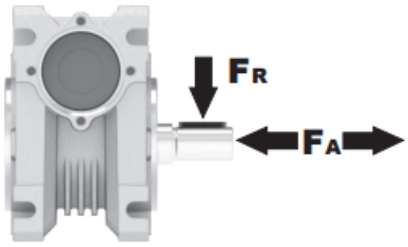
| | | |
|---|---|---|
| MODEL | UMSG50 | |
| Ø OUTPUT SHAFT | 25 | mm |
| APPROXIMATE RATIO | 10 | |
| EXACT RATIO | 10.00 | |
| OUTPUT SPEED | 146 | RPM |
| EXACT OUTPUT SPEED | 146 | RPM |
| INPUT POWER | 0.75 | KW |
| INPUT ROTATION | 1400 | RPM |
| INPUT PAM | 80B14 | |
| OUTPUT TORQUE | 43.99 | N.m |
| NOMINAL TORQUE | 70.39 | N.m |
| NOMINAL POWER | 1.2 | KW |
| SERVICE FACTOR | 1.60 | |
| DYNAMIC EFFICIENCY | 0.86 | |



## Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|---|---|---|---|---|---|
| 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |

## Radial and Axial Loads




| $n_2$ [min-1] | FA [N] | FR [N] |
|---|---|---|
| 200 | 240 | 1200 |
| 100 | 300 | 1500 |
| 50 | 380 | 1900 |
| 15 | 560 | 2800 |

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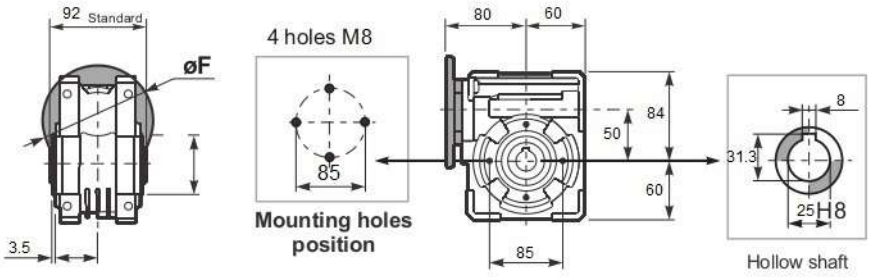
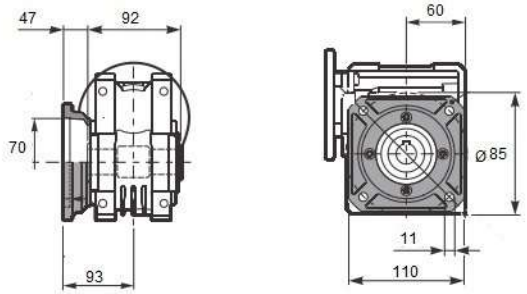
# 3D dimensions UMSG50

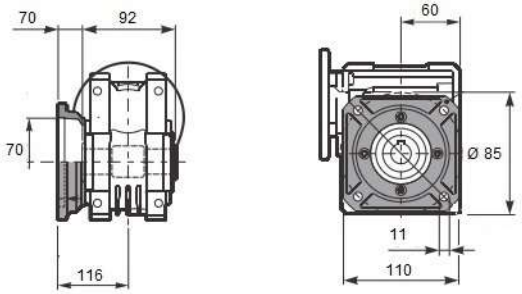
Basic wormbox



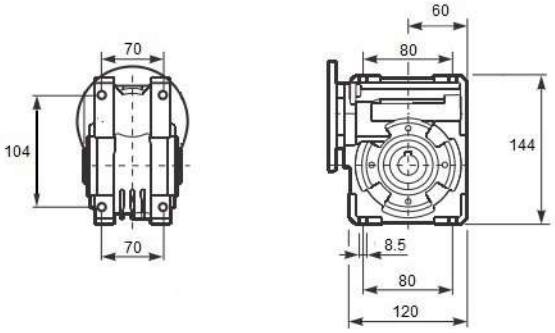

Square flange **FA**



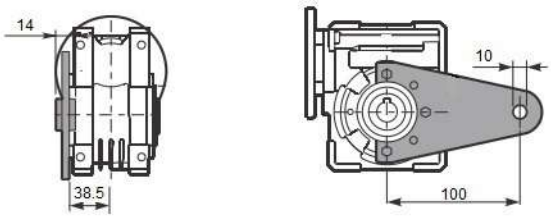

Square flange **FB**



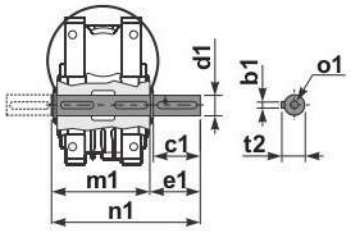

Feet




Reaction arm




Single Shaft




| b1 | c1 | d1 | e1 | m1 | n1 | t2 | o1 |
|---|---|---|---|---|---|---|---|
| 8 | 50 | 25 | 53.5 | 92 | 153 | 28 | M10 |

| 1400 rpm | N2 | Relação | P1 | FS | P1n | M2 | Rend. | Fr max | Veio | | Flanges de entrada | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | rpm | i | kW | | kW | Nm | % | N | Entrada | Saída | 63 | 71 | 80 | |
| UMSG50 | 187 | 7,5 | 1,1 | 1,5 | 1,6 | 71 | 0,88 | 1805 | 19 | 25 | | B14/B5 | B14/B5 | |
| | 140 | 10 | 1,1 | 1,1 | 1,2 | 70 | 0,86 | 1987 | | | | B14/B5 | B14/B5 | |
| | 93 | 15 | 0,75 | 1,2 | 0,88 | 73 | 0,82 | 2274 | | | | B14/B5 | B14/B5 | |
| | 70 | 20 | 0,75 | 0,9 | 0,68 | 72 | 0,79 | 2503 | | | | B14/B5 | B14/B5 | |
| | 56 | 25 | 0,55 | 1,0 | 0,54 | 69 | 0,76 | 2696 | | | | B14/B5 | B14/B5 | |
| | 47 | 30 | 0,55 | 1,0 | 0,57 | 83 | 0,72 | 2865 | | | | B14/B5 | B14/B5 | |
| | 35 | 40 | 0,37 | 1,1 | 0,42 | 77 | 0,67 | 3153 | 14 | | | B14/B5 | | |
| | 28 | 50 | 0,37 | 0,9 | 0,34 | 73 | 0,63 | 3397 | | | B14/B5 | B14/B5 | | |
| | 23 | 60 | 0,25 | 1,1 | 0,28 | 68 | 0,59 | 3610 | | | B14/B5 | B14/B5 | | |
| | 18 | 80 | 0,25 | 0,9 | 0,22 | 64 | 0,53 | 3973 | | | B14/B5 | B14/B5 | | |
| | 14 | 100 | 0,18 | 1,0 | 0,18 | 52 | 0,49 | 4280 | 11 | | B14/B5 | | | |