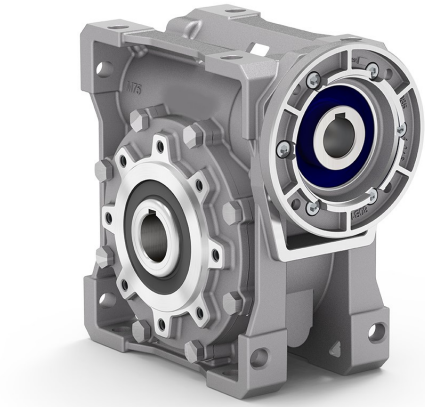
Technical Data Sheet
Gearbox
UMSG

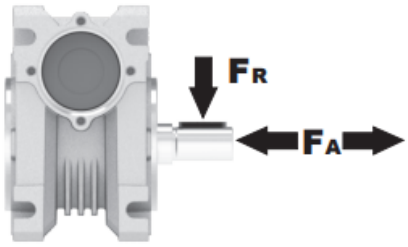
| | | |
|---|---|---|
| MODEL | UMSG110 | |
| Ø OUTPUT SHAFT | 42 | mm |
| APPROXIMATE RATIO | 7.5 | |
| EXACT RATIO | 7.50 | |
| OUTPUT SPEED | 195 | RPM |
| EXACT OUTPUT SPEED | 195 | RPM |
| INPUT POWER | 11.00 | KW |
| INPUT ROTATION | 1400 | RPM |
| INPUT PAM | 132B14 | |
| OUTPUT TORQUE | 506.45 | N.m |
| NOMINAL TORQUE | 552.50 | N.m |
| NOMINAL POWER | 12 | KW |
| SERVICE FACTOR | 1.09 | |
| DYNAMIC EFFICIENCY | 0.90 | |



## Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|---|---|---|---|---|---|
| 3 | 2.5 | 2.5 | 2.2 | 3 | 2.2 |

## Radial and Axial Loads




| $n_2$ [min-1] | FA [N] | FR [N] |
|---|---|---|
| 200 | 600 | 2900 |
| 100 | 750 | 3600 |
| 50 | 920 | 4600 |
| 15 | 1400 | 7000 |

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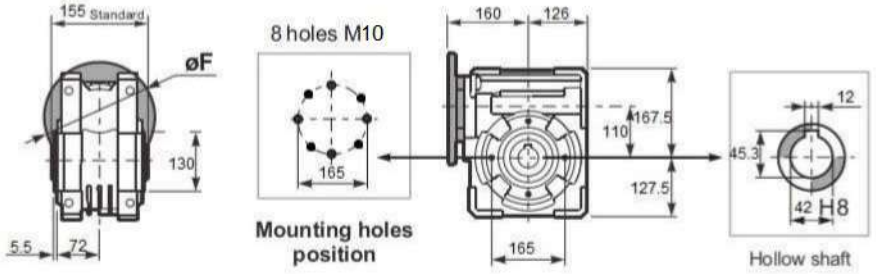
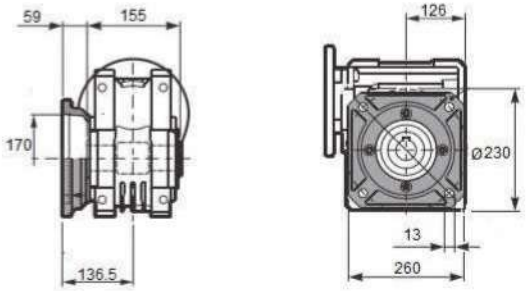
# 3D dimensions UMSG110

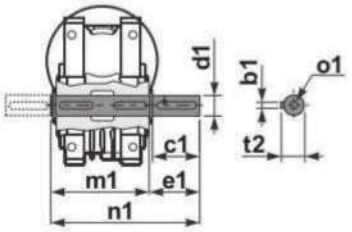
Basic wormbox




## Square flange FA

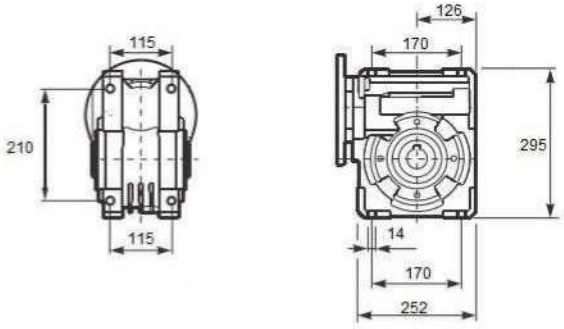



## Single Shaft

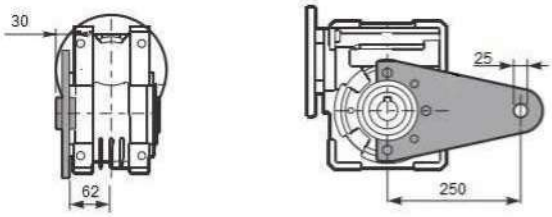



| b1 | c1 | d1 | e1 | m1 | n1 | t2 | o1 |
|---|---|---|---|---|---|---|---|
| 12 | 80 | 42 | 84.5 | 155 | 249 | 45 | M16 |

## Feet




## Reaction arm




| 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 | 132 |
| UMSG110 | 187 | 7,5 | 7,5 | 1,6 | 12 | 546 | 0,9 | 3893 | 38 | 42 | | | B14/B5 | B14/B5 |
| | 140 | 10 | 7,5 | 1,3 | 9,8 | 588 | 0,89 | 4285 | | | | | B14/B5 | B14/B5 |
| | 93 | 15 | 7,5 | 1,0 | 7,5 | 660 | 0,86 | 4905 | | | | | B14/B5 | B14/B5 |
| | 70 | 20 | 5,5 | 1,0 | 5,6 | 649 | 0,85 | 5399 | | | | | B14/B5 | B14/B5 |
| | 56 | 25 | 5,5 | 1,0 | 5,7 | 665 | 0,84 | 5816 | 28 | | | B14/B5 | B14/B5 | |
| | 47 | 30 | 4,0 | 1,1 | 4,5 | 727 | 0,79 | 6181 | | | | B14/B5 | B14/B5 | |
| | 35 | 40 | 3,0 | 1,1 | 3,3 | 693 | 0,78 | 6803 | | | | B14/B5 | B14/B5 | |
| | 28 | 50 | 2,2 | 1,2 | 2,6 | 656 | 0,75 | 7325 | | | | B14/B5 | B14/B5 | |
| | 23 | 60 | 1,5 | 1,4 | 2,1 | 620 | 0,72 | 7787 | | | | B14/B5 | B14/B5 | |
| | 18 | 80 | 1,5 | 0,9 | 1,4 | 512 | 0,67 | 8571 | 24 | | B5 | B14/B5 | | |
| | 14 | 100 | 1,1 | 1,0 | 1,1 | 473 | 0,63 | 9232 | | | B5 | B14/B5 | | |