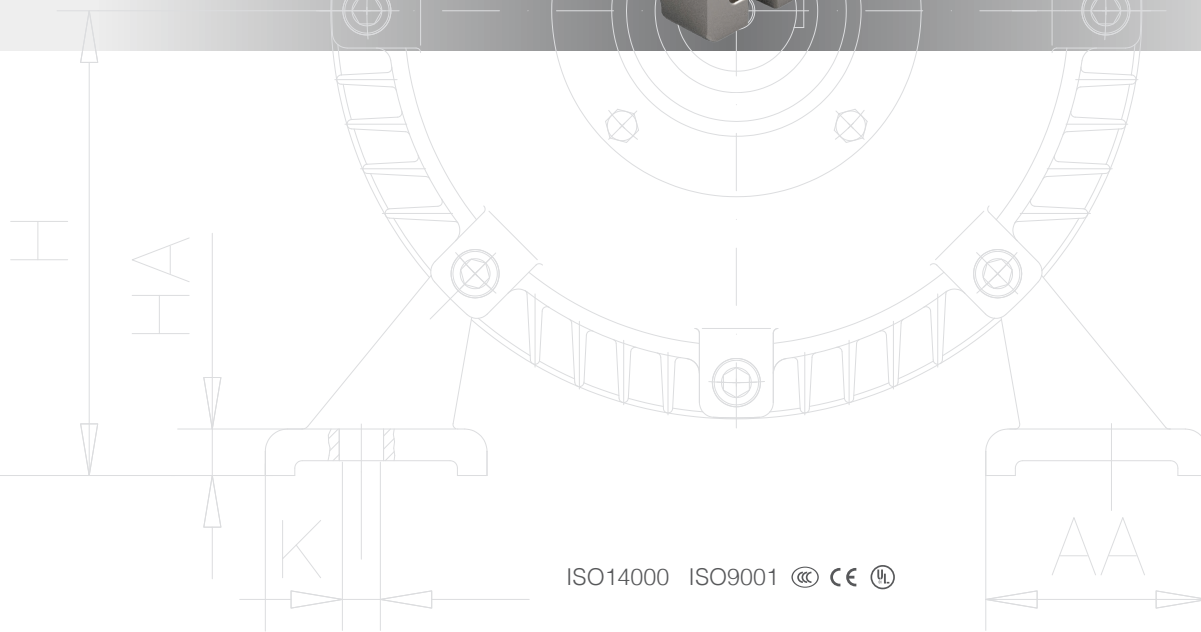
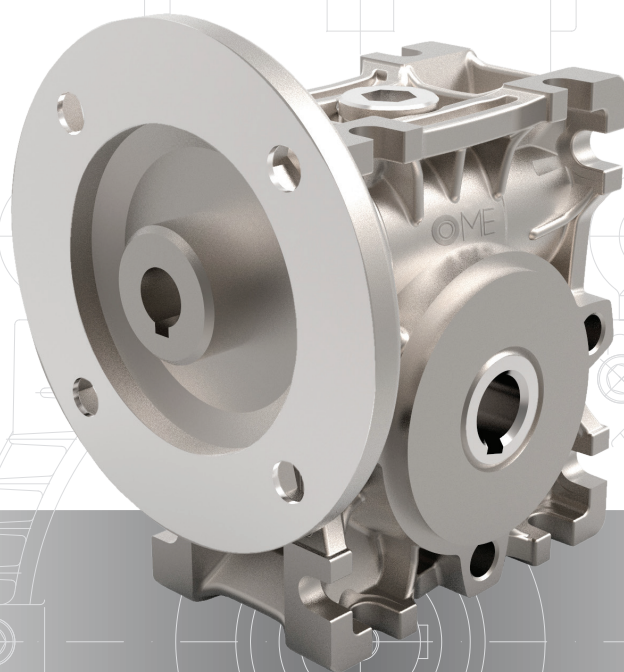




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GEAR BOX SERIES

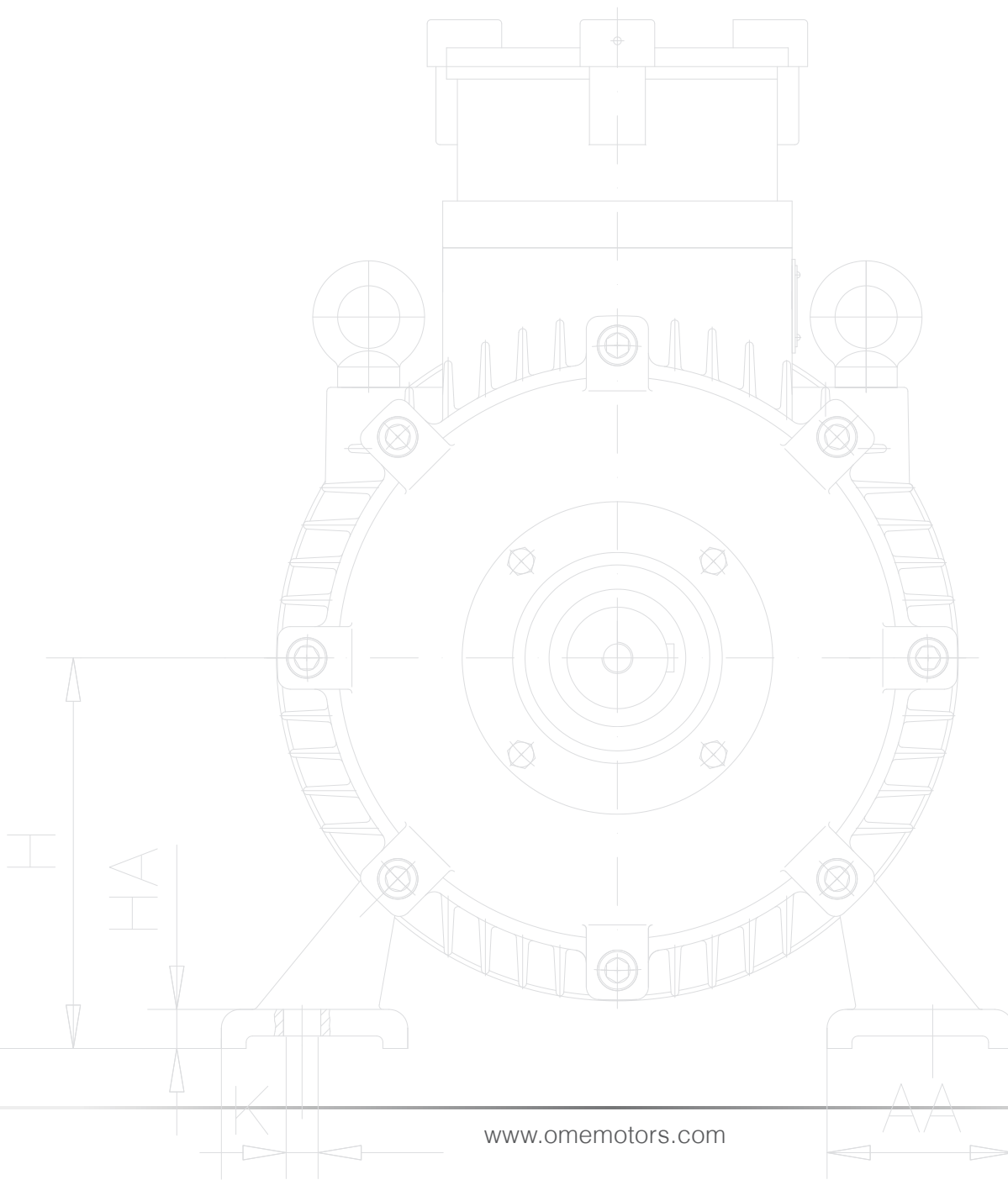
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GENERAL INFORMATION

| | |
|---------------------------------|----|
| OME Electric Motors Information | 01 |
| OMGB Series Introduction | 03 |
| Technical Data | 08 |
| Overall Dimension | 10 |

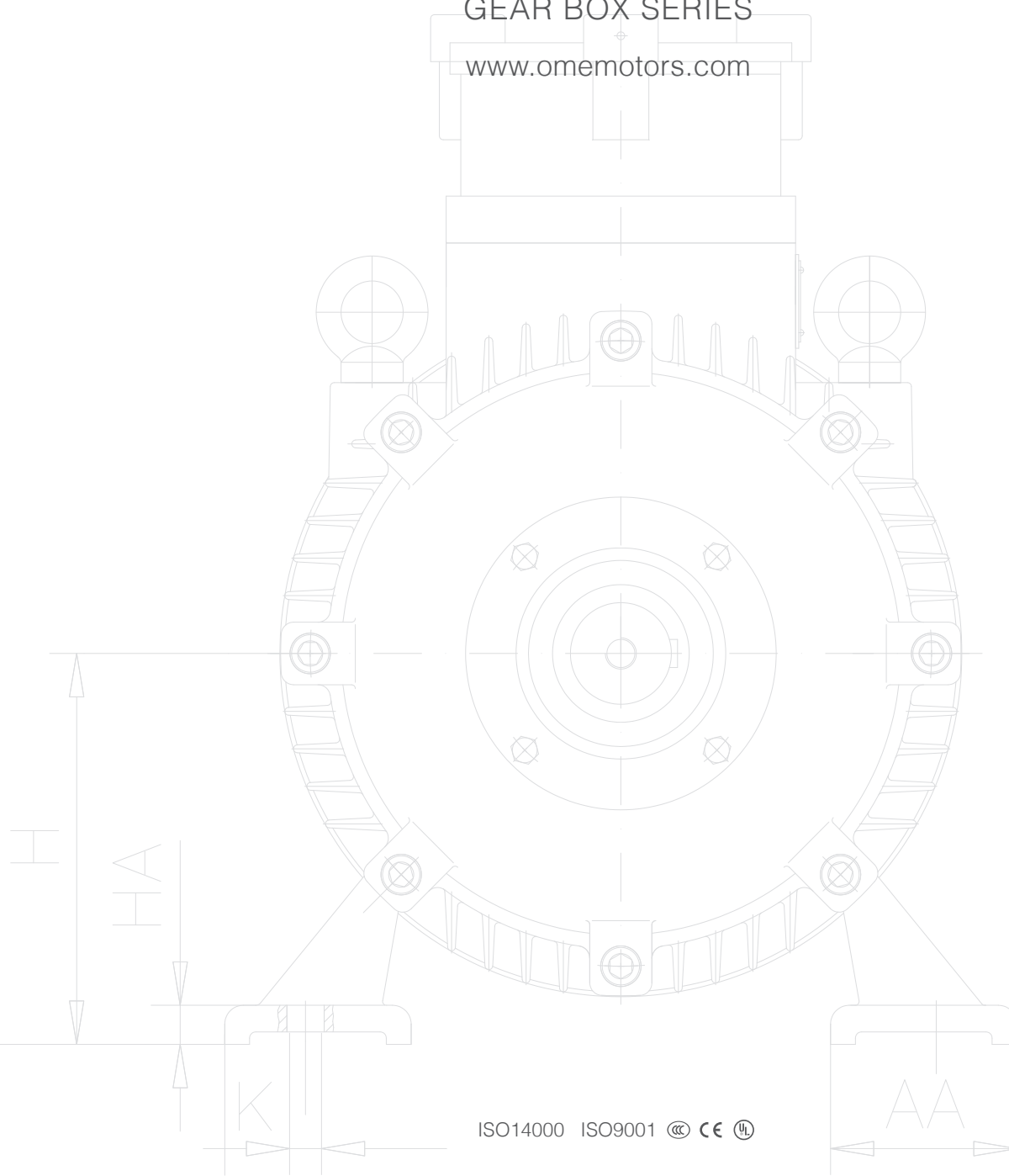




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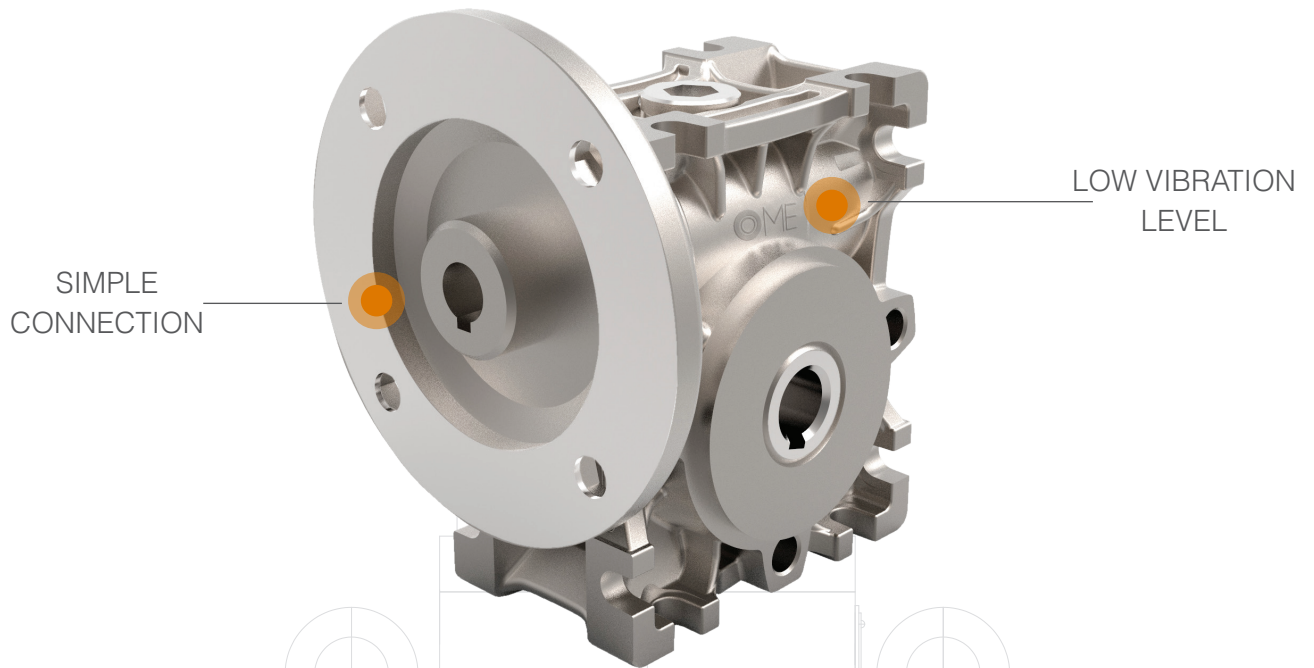
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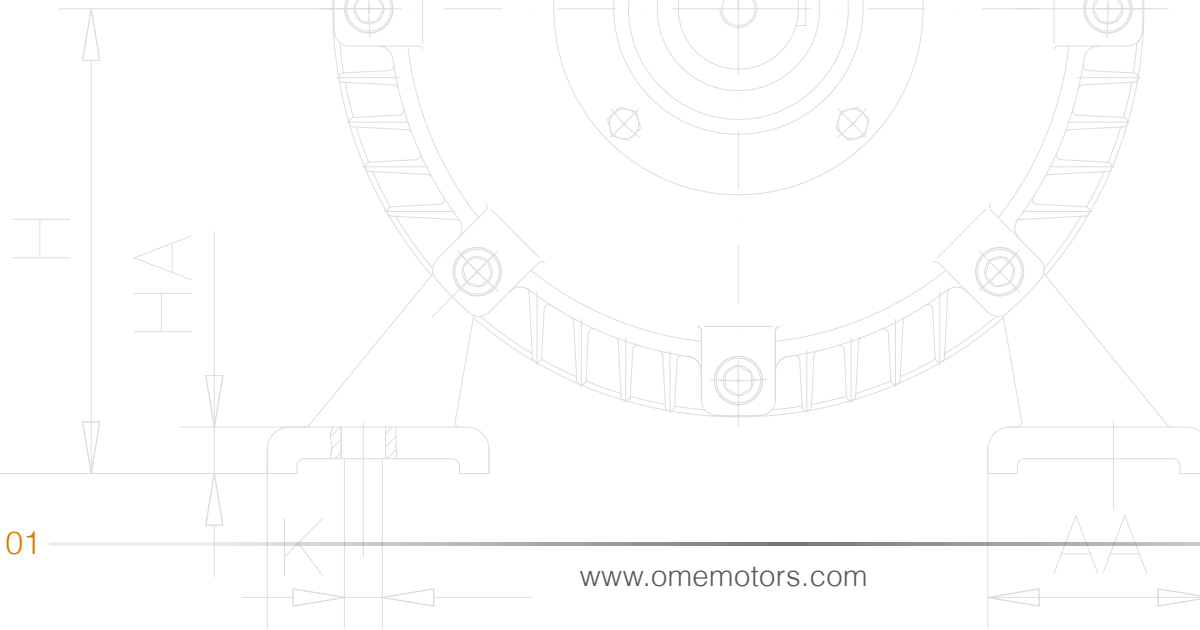




OMGB GEAR BOX SERIES



High Performance





OME Electric Motors and Orsatti Group

OME is a well-established global reality born from the Orsatti family's long experience in the electrical machinery sector and characterized by a history in continuous evolution.

The key points that distinguish the Orsatti Group are in particular:

- Technical experience of over 50 years
- The continuous research for new solutions to increase the performance of our electric motors
- Development of technical solutions in compliance with current standards
- The tailor-made service to customize the motors on customer request
- The wide range of production to meet any market need
- The constant research for suitable solutions to increase the efficiency of our electric motors
- Compliance with the standards required for energy saving and environmental protection

MISSION

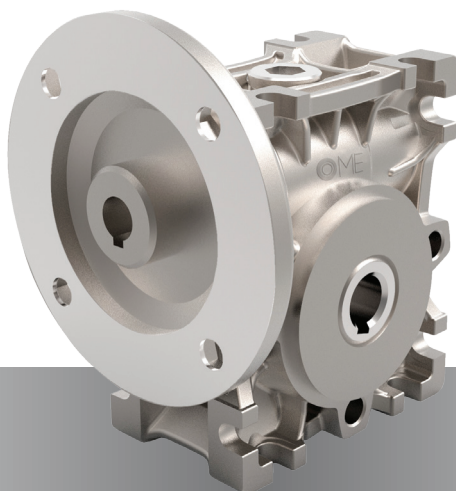
Our mission is to be a leading company in the production of electric motors at an international level.

VISION

Our vision is to design and manufacture highly customized motors, meeting the most varied customer requirements, managing to make competitive even the smallest realities.

VALUES

- The high quality of production, sales, service and maintenance;
- Intelligent and low costs logistics;
- Providing motors, services and expertise to save energy and improve customer processes throughout the life cycle of our products and beyond.



Series OMGB

THE ADVANTAGES OF WORM REDUCER

High quality Aluminum alloy ,appearance elegant, efficient radiator, high carrying ability. installed in multi-surfaces,hollow output shaft, various input and output type, conjoin other transmission machinery easily. Small size, constriction compact, lightweight, and save place for mounting. Run steadily and low noise. High reliability and high efficiency.

SIGNS AND MARKS

The signs consist of: model,type (centre distance),nominal transmission ratio, the kind of added electric motor and the way of input of output.Their meanings as shown in table 1,chart1.

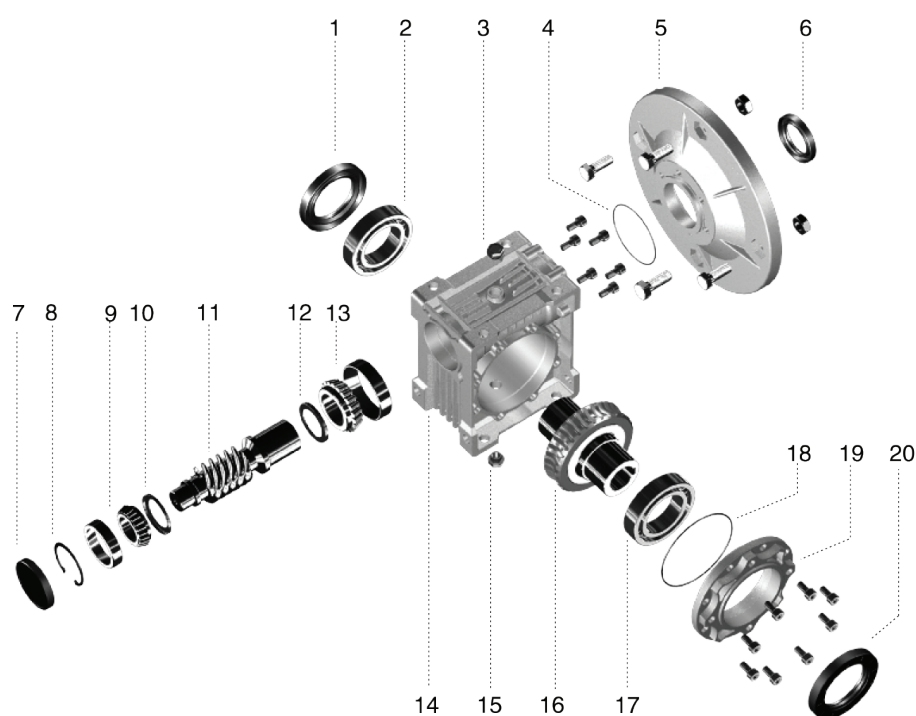
Sign explanation

(Table 1)

| | |
|--------------------------------------|---|
| OMGBM | With input flange (using with electric motor) |
| OMGB | With input shaft |
| 25-30-40-50-63-75-90-110-130-150-185 | Type(centre distante) |
| 7.5-10-15-20-25-30-40-50-60-80-100 | Nominai ratio |
| Y 0.18 | With electric motor the power is 0.18KW |
| Z 0.18 | With breaking motor,the power is 0.18KW |
| F(1-2) - FL(1-2) | Output flange and mounting position (F-output short flang. FL-output long flang) |
| TA | With torque arm |
| YZ | With extention worm shaft |
| DZ1-DZ2 | With single output shaft |
| SZ | With double output shaft |

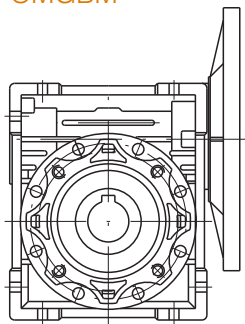
MODEL DESIGNATION

| 1 | 2 | 3 | 4 | 5 | 6 |
|-------------|-------------|-----------------------|-----------------------------------|---|---------------------------------|
| Modle OMGBM | Type 25-185 | Nomianl ratio 7.5-100 | Electric Motor type nd power (kW) | | Input and output shaft Code: YZ |
| | | | Z (kW) | | DZ1, DZ2 |
| | | | Omiting without it | | SZ |
| | | | | | Omiting without it |
| | | | | | Accessory for mounting: F1, FL1 |
| | | | | | F2, FL2 |
| | | | | | TA |
| | | | | | Omiting without it |

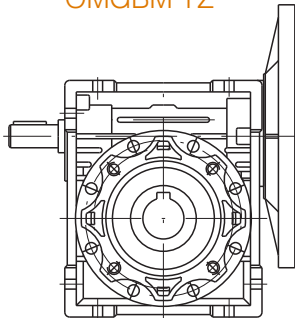


- 1 - Oil seal
- 2 - Bearing
- 3 - Breather vent
- 4 - O-type seal ring
- 5 - Input flange
- 6 - Oil seal
- 7 - Seal and cover
- 8 - Circlip hole use
- 9 - Bearing
- 10 - Oli baffle disc
- 11 - Worm
- 12 - Oil baffle sisc
- 13 - Bearing
- 14 - Tank
- 15 - Plug screw
- 16 - Gear
- 17 - Bearing
- 18 - O-type seal ring
- 19 - Bearing and cover
- 20 - Oil seal

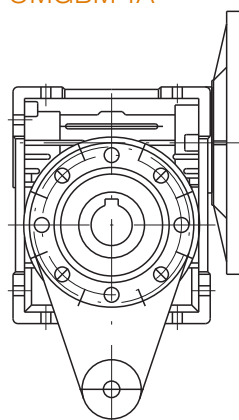
OMGBM



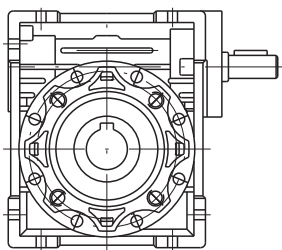
OMGBM YZ



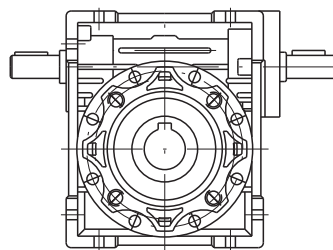
OMGBM TA



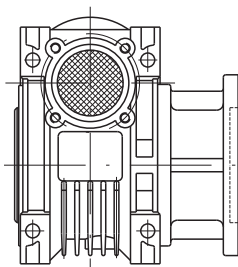
OMGB



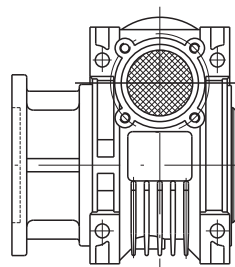
OMGB YZ



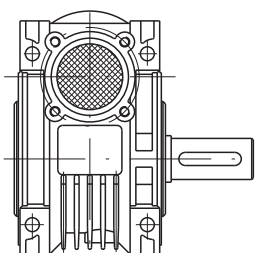
OMGB F1, FL1



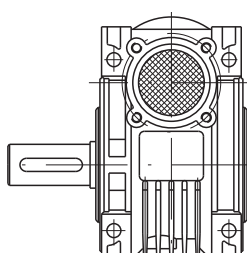
OMGB F2, FL2



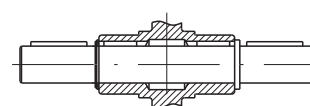
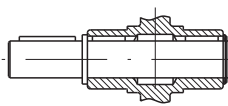
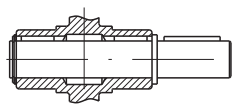
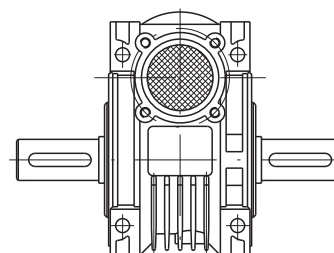
OMGB DZ1



OMGB DZ2



OMGB SZ



• Example of sign

1. OMGBM 40-30-Y0.18-F1-SZ

Means: model OMGBM

size: 40

Nominai ratio: 30

Epuipped electric motor: 0.18KW in series Y

Output flange: F1

Doubie output shaft: SZ

2. OMGBM 40-30-F1

Means: model OMGBM

size: 40

Nominai ratio: 30

Without electric motor

Output flange: F1

• The carrying ability of worm micteducer

By table 2 and table 3,can find service factor of the worm micreducer

By table 4 and table 5,can find the carring ability of worm micreducer

• Overall and mounting dimensions

By chat 2 and table 6, can find flange types and bimensions of hollow shaft.

By chart 3, shart 4and table7, can find overall demensions

By chart 5 and table8, can find dimensions of single/double output shaft.

By chart 6 and table 9, can find dimensions of exetention shafts.

By chart 7 and table 10,can find dimensions of torque arms.

By chart 8, and speed reducer installation patterns, corresponding oil amount and types of lubricating oil.

By chart 9, and installation patterns of output flanges, output spindies.

By chart 10, can find the positions of junction box.

- The requirement of using and maintain

Do not make pressure on output part and box when mounting it. It must replace lubrication oil after it runs 400 hours when first using it, after it, replace lubrication oil per running 4000 hours.

It must keep coaxial degree and vertical degree in just lever when conjoining reducer with other device. Must keep plenty of oil lubrication in the reducer and check it often. Must add or replace in time when oil reduce or get bad. (lubrication type see attached table and chart 8) It is useful to keep reducer clean so that reducer radiates: warmth more Efficiently.

(Attached table)

| Reference circle of worm slide(m/s) | Lubrication type |
|-------------------------------------|------------------|
| <2.2 | G-N680W(G-N460W) |
| >2.5 - 5 | G-N320W |
| >5 - 12 | G-N220W |

By table 2 and 3, can find out the service factor(sf) about worm reducer. (Table 2)

| NO of starts per hour <10 | | | |
|--|-----------------------|---------|---------|
| Nature of load generated by driven machine | Hours running per day | | |
| | <2 | 2-8 | 8-18 |
| Uniform | sf=0.8 | sf=1 | sf=1.25 |
| Moderate shock | sf=1 | sf=1.25 | sf=1.5 |
| Heavy shock | sf=1.25 | sf=1.5 | sf=1.75 |

(Table 3)

| NO of starts per hour <10 | | | |
|--|-----------------------|---------|---------|
| Nature of load generated by driven machine | Hours running per day | | |
| | <2 | 2-8 | 8-24 |
| Uniform | sf=1 | sf=1.25 | sf=1.75 |
| Moderate shock | sf=1.5 | sf=1.75 | sf=2 |
| Heavy shock | sf=1.75 | sf=2 | sf=2.25 |

Date table (sf=1)

(Table 4)

| I | | n2 | | | | | | | | | | | |
|-----|-----------|-----|------|------|------|------|------|------|------|------|------|------|------|
| | | | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 | 185 |
| 7.5 | KW1 M2 | 187 | 0.25 | 0.41 | 0.90 | 1.58 | 2.84 | 4.06 | 6.3 | 10.4 | 16.1 | 25.8 | 39.1 |
| | | | 11 | 18 | 40 | 71 | 128 | 185 | 290 | 480 | 750 | 1200 | 1740 |
| 10 | KW1 M2 | 140 | 0.21 | 0.32 | 0.69 | 1.23 | 2.19 | 3.25 | 5.11 | 8.57 | 13.5 | 20.2 | 30 |
| | | | 12 | 18 | 40 | 72 | 130 | 195 | 310 | 520 | 820 | 1240 | 1800 |
| 15 | KW1 M2 | 93 | 0.15 | 0.23 | 0.48 | 0.88 | 1.65 | 2.30 | 4.09 | 6.48 | 10.3 | 13.9 | 21 |
| | | | 12 | 18 | 40 | 74 | 140 | 200 | 360 | 570 | 920 | 1250 | 1760 |
| 20 | KW1 M2 | 70 | 0.12 | 0.18 | 0.37 | 0.68 | 1.22 | 1.88 | 3.10 | 4.83 | 7.76 | 11 | 19.6 |
| | | | 12 | 18 | 39 | 73 | 135 | 210 | 355 | 560 | 910 | 1300 | 2270 |
| 25 | KW1 M2 | 56 | – | 0.18 | 0.30 | 0.54 | 0.98 | 1.47 | 2.43 | 4.12 | 6.49 | 8.4 | 13.8 |
| | | | – | 21 | 38 | 70 | 130 | 200 | 340 | 590 | 930 | 1200 | 1950 |
| 30 | KW1 M2 | 47 | 0.09 | 0.15 | 0.31 | 0.57 | 1.06 | 1.48 | 2.57 | 3.90 | 6.35 | 7 | 14 |
| | | | 13 | 20 | 45 | 84 | 160 | 230 | 410 | 630 | 1040 | 1200 | 2200 |
| 40 | KW1 M2 | 35 | 0.08 | 0.11 | 0.23 | 0.42 | 0.76 | 1.12 | 1.76 | 2.87 | 4.93 | 7.3 | 12.1 |
| | | | 13 | 18 | 41 | 76 | 145 | 220 | 360 | 610 | 1050 | 1550 | 2570 |
| 50 | KW1 M2 | 28 | 0.06 | 0.09 | 0.18 | 0.34 | 0.60 | 0.89 | 1.38 | 2.35 | 3.83 | 5.4 | 9.3 |
| | | | 11 | 17 | 39 | 73 | 135 | 210 | 340 | 600 | 980 | 1400 | 2370 |
| 60 | KW1 M2 | 23 | 0.04 | 0.08 | 0.15 | 0.28 | 0.51 | 0.75 | 1.13 | 1.9 | 3.05 | 4.2 | 7.6 |
| | | | 10 | 16 | 36 | 68 | 130 | 200 | 320 | 560 | 900 | 1260 | 2270 |
| 80 | KW1 M2 | 18 | – | 0.05 | 0.12 | 0.22 | 0.39 | 0.58 | 0.83 | 1.34 | 2.26 | 3.1 | 5.6 |
| | | | – | 13 | 33 | 65 | 122 | 190 | 285 | 490 | 840 | 1150 | 2100 |
| 100 | KW1 M2 | 14 | – | – | 0.09 | 0.16 | 0.34 | 0.48 | 0.67 | 1.07 | 1.70 | 2.29 | 4.1 |
| | | | – | – | 29 | 55 | 118 | 180 | 270 | 460 | 740 | 1000 | 1810 |

Data table (with 4 poles, 1400rpm motor)

(Table 5)

| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
|------|-----|-------|-----------------|----------------|----------------|-----|
| 25 | 7.5 | 186.7 | 0.09 | 4 | 2.8 | 7.5 |
| | 10 | 140 | 0.09 | 5 | 2.3 | 10 |
| | 15 | 93.3 | 0.09 | 7 | 1.6 | 15 |
| | 20 | 70 | 0.09 | 9 | 1.3 | 20 |
| | 30 | 46.7 | 0.09 | 12 | 1.0 | 30 |
| | 40 | 35 | 0.09 | 15 | 0.9 | 40 |
| | 50 | 28 | 0.06 | 12 | 0.9 | 50 |
| | 60 | 23.3 | 0.06 | 14 | 0.7 | 60 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 50 | 7.5 | 186.7 | 0.75 | 33 | 1.7 | 7.5 |
| | 10 | 140 | 0.75 | 42 | 1.3 | 10 |
| | 15 | 93.3 | 0.75 | 58 | 1.0 | 15 |
| | 20 | 70 | 0.75 | 81 | 0.9 | 20 |
| | 25 | 56 | 0.55 | 71 | 1.0 | 25 |
| | 30 | 46.7 | 0.55 | 81 | 1.0 | 30 |
| | 40 | 35 | 0.55 | 101 | 0.8 | 40 |
| | 50 | 28 | 0.37 | 80 | 0.9 | 50 |
| | 60 | 23.3 | 0.37 | 89 | 0.8 | 60 |
| | 80 | 17.5 | 0.25 | 72 | 0.9 | 80 |
| | 100 | 14 | 0.18 | 60 | 0.9 | 100 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 90 | 7.5 | 186.7 | 4 | 180 | 1.3 | 7.5 |
| | 10 | 140 | 4 | 236 | 1.1 | 10 |
| | 15 | 93.3 | 4 | 342 | 0.9 | 15 |
| | 20 | 70 | 4 | 458 | 0.8 | 20 |
| | 25 | 56 | 3 | 420 | 0.8 | 25 |
| | 30 | 46.7 | 3 | 479 | 0.9 | 30 |
| | 40 | 35 | 2.2 | 433 | 0.8 | 40 |
| | 50 | 28 | 2.2 | 492 | 0.6 | 50 |
| | 60 | 23.3 | 1.5 | 424 | 0.8 | 60 |
| | 80 | 17.5 | 1.1 | 365 | 0.8 | 80 |
| | 100 | 14 | 0.75 | 302 | 0.9 | 100 |

| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
|------|-----|-------|-----------------|----------------|----------------|-----|
| 30 | 7.5 | 186.7 | 0.18 | 7 | 1.9 | 7.5 |
| | 10 | 140 | 0.18 | 9 | 1.5 | 10 |
| | 15 | 93.3 | 0.18 | 13 | 1.0 | 15 |
| | 20 | 70 | 0.18 | 17 | 0.8 | 20 |
| | 25 | 56 | 0.18 | 21 | 1.0 | 25 |
| | 30 | 46.7 | 0.18 | 24 | 0.8 | 30 |
| | 40 | 35 | 0.12 | 19 | 0.9 | 40 |
| | 50 | 28 | 0.12 | 23 | 0.8 | 50 |
| | 60 | 23.3 | 0.09 | 19 | 0.9 | 60 |
| | 80 | 17.5 | 0.06 | 14 | 0.9 | 80 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 63 | 7.5 | 186.7 | 1.5 | 68 | 1.5 | 7.5 |
| | 10 | 140 | 1.5 | 88 | 1.2 | 10 |
| | 15 | 93.3 | 1.5 | 126 | 0.9 | 15 |
| | 20 | 70 | 1.5 | 166 | 0.8 | 20 |
| | 25 | 56 | 1.1 | 146 | 0.9 | 25 |
| | 30 | 46.7 | 1.1 | 167 | 1.0 | 30 |
| | 40 | 35 | 1.1 | 207 | 0.7 | 40 |
| | 50 | 28 | 0.55 | 124 | 1.1 | 50 |
| | 60 | 23.3 | 0.55 | 140 | 0.9 | 60 |
| | 80 | 17.5 | 0.37 | 115 | 1.1 | 80 |
| | 100 | 14 | 0.37 | 129 | 0.9 | 100 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 110 | 7.5 | 186.7 | 7.5 | 345 | 1.4 | 7.5 |
| | 10 | 140 | 7.5 | 455 | 1.1 | 10 |
| | 15 | 93.3 | 5.5 | 484 | 1.2 | 15 |
| | 20 | 70 | 5.5 | 638 | 0.8 | 20 |
| | 25 | 56 | 5.5 | 790 | 0.8 | 25 |
| | 30 | 46.7 | 4 | 647 | 0.9 | 30 |
| | 40 | 35 | 3 | 638 | 0.9 | 40 |
| | 50 | 28 | 3 | 767 | 0.8 | 50 |
| | 60 | 23.3 | 2.2 | 648 | 0.8 | 60 |
| | 80 | 17.5 | 1.5 | 548 | 0.8 | 80 |
| | 100 | 14 | 1.1 | 473 | 0.9 | 100 |

| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
|------|-----|-------|-----------------|----------------|----------------|-----|
| 40 | 7.5 | 186.7 | 0.37 | 16 | 1.6 | 7.5 |
| | 10 | 140 | 0.37 | 27 | 1.3 | 10 |
| | 15 | 93.3 | 0.37 | 28 | 0.9 | 15 |
| | 20 | 70 | 0.37 | 39 | 1.0 | 20 |
| | 25 | 56 | 0.37 | 47 | 0.8 | 25 |
| | 30 | 46.7 | 0.37 | 53 | 0.8 | 30 |
| | 40 | 35 | 0.25 | 44 | 0.9 | 40 |
| | 50 | 28 | 0.22 | 47 | 0.8 | 50 |
| | 60 | 23.3 | 0.18 | 43 | 0.8 | 60 |
| | 80 | 17.5 | 0.12 | 34 | 1.0 | 80 |
| | 100 | 14 | 0.12 | 38 | 0.8 | 100 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 75 | 7.5 | 186.7 | 4 | 182 | 1.0 | 7.5 |
| | 10 | 140 | 3 | 180 | 1.1 | 10 |
| | 15 | 93.3 | 3 | 261 | 0.8 | 15 |
| | 20 | 70 | 2.2 | 240 | 0.8 | 20 |
| | 25 | 56 | 1.5 | 205 | 1.0 | 25 |
| | 30 | 46.7 | 2.2 | 337 | 0.7 | 30 |
| | 40 | 35 | 1.1 | 216 | 1.0 | 40 |
| | 50 | 28 | 1.1 | 264 | 0.8 | 50 |
| | 60 | 23.3 | 1.1 | 279 | 0.7 | 60 |
| | 80 | 17.5 | 0.55 | 180 | 1.0 | 80 |
| | 100 | 14 | 0.55 | 206 | 0.9 | 100 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 130 | 7.5 | 186.7 | 7.5 | 343 | 1.8 | 7.5 |
| | 10 | 140 | 7.5 | 453 | 1.5 | 10 |
| | 15 | 93.3 | 7.5 | 664 | 1.1 | 15 |
| | 20 | 70 | 7.5 | 864 | 0.8 | 20 |
| | 25 | 56 | 7.5 | 1074 | 0.8 | 25 |
| | 30 | 46.7 | 5.5 | 900 | 1.1 | 30 |
| | 40 | 35 | 5.5 | 1171 | 0.9 | 40 |
| | 50 | 28 | 5.5 | 1379 | 0.7 | 50 |
| | 60 | 23.3 | 4 | 1179 | 0.8 | 60 |
| | 80 | 17.5 | 2.2 | 816 | 1.0 | 80 |
| | 100 | 14 | 2.2 | 966 | 0.8 | 100 |

| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
|------|-----|-------|-----------------|----------------|----------------|-----|
| 40 | 7.5 | 186.7 | 15 | 690 | 1.7 | 7.5 |
| | 10 | 140 | 15 | 870 | 1.4 | 10 |
| | 15 | 93.3 | 11 | 945 | 1.25 | 15 |
| | 20 | 70 | 11 | 1250 | 1.0 | 20 |
| | 25 | 56 | 7.5 | 1040 | 1.1 | 25 |
| | 30 | 46.7 | 7.5 | 1200 | 0.9 | 30 |
| | 40 | 35 | 7.5 | 1550 | 1.0 | 40 |
| | 50 | 28 | 5.5 | 1400 | 1.0 | 50 |
| | 60 | 23.3 | 4 | 1180 | 1.0 | 60 |
| | 80 | 17.5 | 3 | 1130 | 1.0 | 80 |
| | 100 | 14 | 2.2 | 975 | 1.0 | 100 |
| Type | iN | n2 | KW ₁ | M ₂ | S _f | iAC |
| 185 | 7.5 | 186.7 | 22 | 980 | 1.75 | 7.5 |
| | 10 | 140 | 22 | 1320 | 1.35 | 10 |
| | 15 | 93.3 | 18.5 | 1550 | 1.1 | 15 |
| | 20 | 70 | 18.5 | 2140 | 1.0 | 20 |
| | 25 | 56 | 11 | 1560 | 1.25 | 25 |
| | 30 | 46.7 | 11 | 1760 | 1.3 | 30 |
| | 40 | 35 | 11 | 2320 | 1.1 | 40 |
| | 50 | 28 | 7.5 | 1920 | 1.2 | 50 |
| | 60 | 23.3 | 7.5 | 2210 | 1.0 | 60 |
| | 80 | 17.5 | 5.5 | 2070 | 1.0 | 80 |
| | 100 | 14 | 4 | 1760 | 1.0 | 100 |

Note
n1---input speed rpm;
n2---Output speed rpm;
M2---Output torque Nm;
sf---Service factor
iN---Nominal ratio;
iAC---Actual ratio.

The type of flange and Hollow inputshaft diameter D

(Table 6)

| Type | Flange type | N | M | P | Normal ratio | | | | | | | | | | | |
|---------|-------------|-----|-----|-----|--------------|----|----|----|----|----|----|----|----|----|-----|--|
| | | | | | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | |
| | | | | | D | | | | | | | | | | | |
| 25 | 56B14 | 50 | 65 | 80 | 9 | 9 | 9 | 9 | — | 9 | 9 | 9 | 9 | — | — | |
| 30 | 63B5 | 95 | 115 | 140 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | — | — | — | |
| | 63B14 | 60 | 75 | 90 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | — | — | — | |
| | 56B14 | 50 | 65 | 80 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | — | |
| 40 | 71B5 | 110 | 130 | 160 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | — | — | — | |
| | 63B5 | 90 | 115 | 140 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |
| 50 | 80B5 | 130 | 165 | 200 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | — | — | — | — | |
| | 71B5 | 110 | 130 | 160 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | — | |
| | 63B5 | 95 | 115 | 140 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |
| | 80B14 | 80 | 100 | 120 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | — | — | — | — | |
| | 71B14 | 70 | 85 | 105 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | — | |
| 63 | 90B5 | 130 | 165 | 200 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | — | — | — | — | |
| | 80B5 | 130 | 165 | 200 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | — | — | |
| | 71B5 | 110 | 130 | 160 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| | 71B14 | 70 | 85 | 105 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | |
| 75/90 | 100/112B5 | 180 | 215 | 250 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | — | — | — | |
| | 90B5 | 130 | 165 | 200 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | — | |
| | 80B5 | 130 | 165 | 200 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | |
| | 90B14 | 95 | 115 | 140 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | — | |
| | 80B14 | 80 | 100 | 120 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | |
| 110/130 | 132B5 | 230 | 265 | 300 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | — | — | — | |
| | 100/112B5 | 180 | 215 | 250 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| | 90B5 | 130 | 165 | 200 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| | 100/112B14 | 110 | 130 | 160 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| | 90B14 | 95 | 115 | 140 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| 150 | 160B5 | 250 | 300 | 300 | 42 | 42 | 42 | 42 | — | — | — | — | — | — | — | |
| | 132B5 | 230 | 265 | 250 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | — | — | — | |
| | 100/112B5 | 180 | 215 | 200 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| 185 | 180B5 | 250 | 300 | 350 | 48 | 48 | 48 | 48 | — | — | — | — | — | — | — | |
| | 160B5 | 250 | 300 | 350 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | — | — | — | |
| | 132B5 | 230 | 265 | 300 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | |
| | 100/112B5 | 180 | 215 | 250 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |

Chart 2

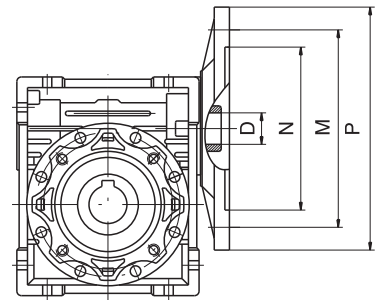
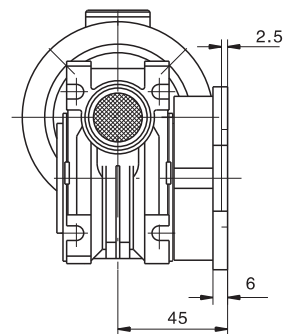
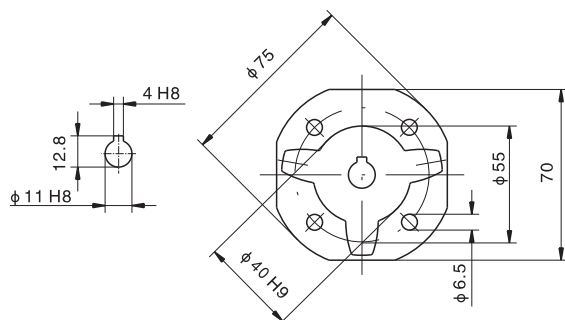
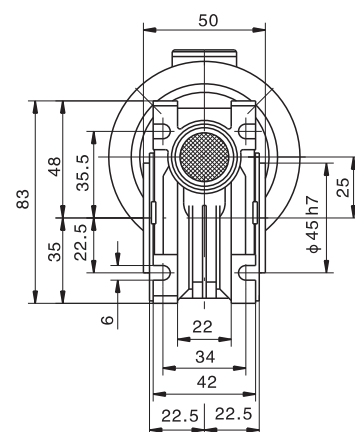
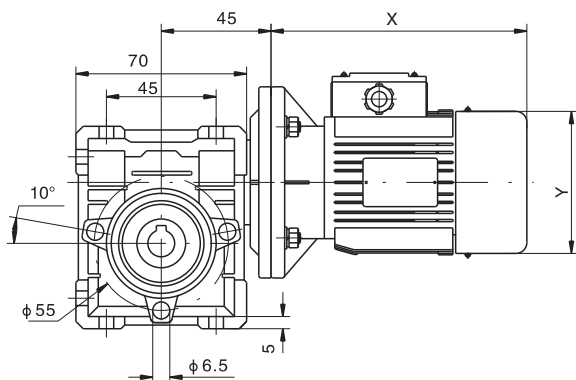


Chart 3

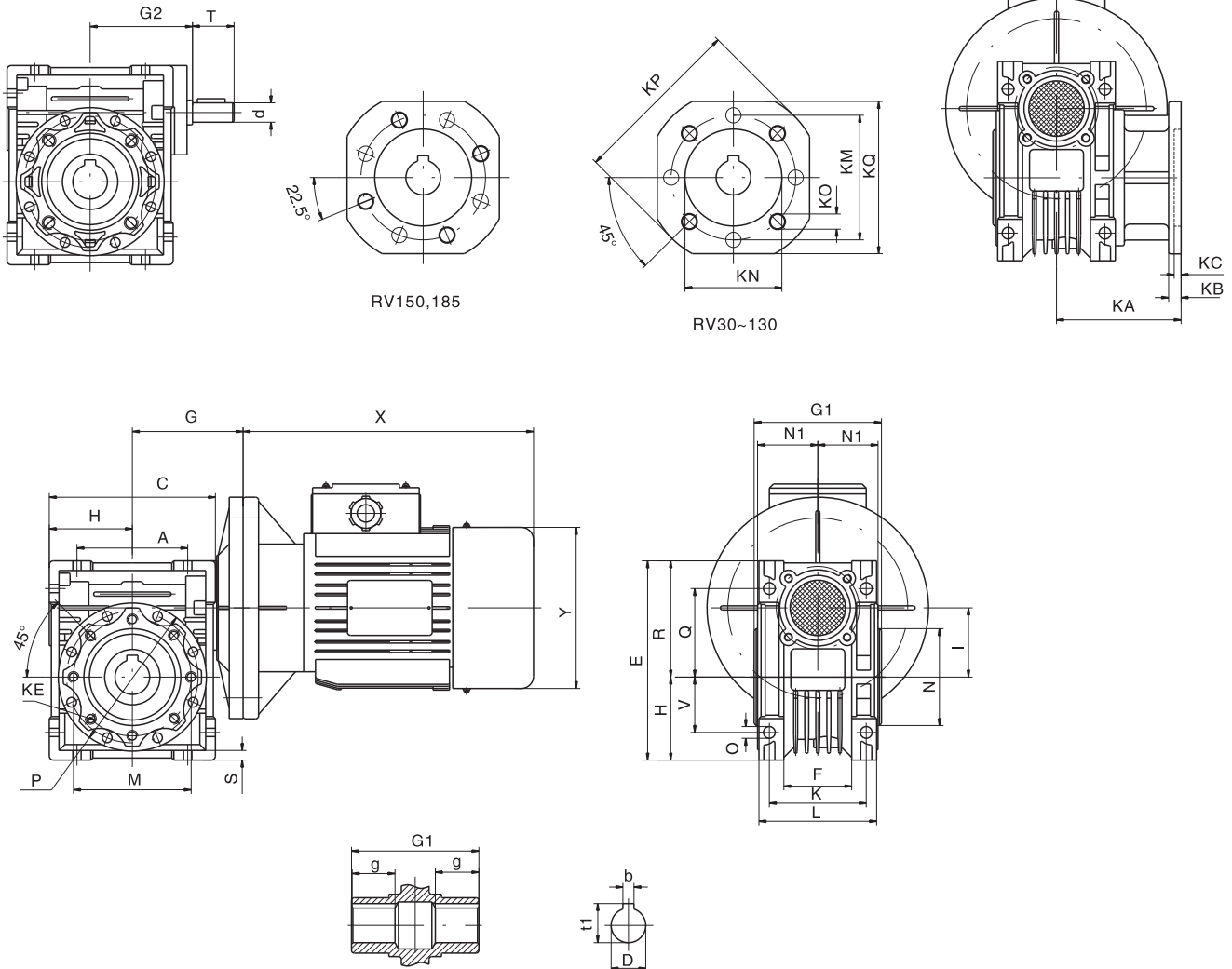


OMGBM



OMGB

OMGBM



(Table 7)

| Type | (Dimensions) | | | | | | | | | | | | | | | | | | |
|------|--------------|-------|-------|-------|----|------|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|----|-----|-----|
| | A | C | D(H7) | E | F | G | H | I | L | M | N(h8) | O | P | Q | R | S | T | V | K |
| 30 | 54 | 80 | 14 | 97 | 32 | ≤54 | 40 | 30 | 56 | 65 | 54 | 6.5 | 75 | 44 | 57 | 5.5 | 20 | 27 | 44 |
| 40 | 70 | 101 | 18 | 121.5 | 43 | ≤62 | 50 | 40 | 71 | 75 | 60 | 6.5 | 87 | 55 | 71.5 | 6.5 | 23 | 35 | 60 |
| 50 | 80 | 121.5 | 25 | 144 | 49 | ≤90 | 60 | 50 | 85 | 85 | 70 | 8.5 | 100 | 64 | 85 | 7 | 30 | 40 | 70 |
| 63 | 100 | 147.5 | 25 | 174 | 67 | ≤106 | 72 | 63 | 103 | 95 | 80 | 8.5 | 110 | 80 | 102 | 8 | 40 | 50 | 85 |
| 75 | 120 | 174 | 28 | 205 | 72 | ≤121 | 86 | 75 | 113 | 115 | 95 | 11 | 140 | 93 | 119 | 10 | 50 | 60 | 90 |
| 90 | 140 | 208 | 35 | 238 | 72 | ≤138 | 103 | 90 | 130 | 130 | 110 | 13 | 160 | 102 | 135 | 11 | 50 | 70 | 100 |
| 110 | 170 | 252.5 | 42 | 295 | | ≤159 | 127.5 | 110 | 142 | 165 | 130 | 14 | 200 | 125 | 166.5 | 15 | 60 | 85 | 115 |
| 130 | 200 | 292.5 | 45 | 335 | | ≤179 | 147.5 | 130 | 155 | 215 | 180 | 16 | 250 | 140 | 187.5 | 15 | 80 | 100 | 120 |
| 150 | 240 | 340 | 50 | 400 | | ≤212 | 170 | 150 | 185 | 215 | 180 | 18 | 250 | 180 | 230 | 18 | 80 | 120 | 145 |
| 185 | 310 | 412 | 60 | 472 | | ≤247 | 207 | 185 | 220 | 265 | 230 | 22 | 300 | 213 | 265 | 25 | 80 | 155 | 175 |

| Type | (Dimensions) | | | | | | | | | | | | | | | | | | | |
|------|--------------|-----|----|------|-------|-----|----|----|---------------|-----|-----|--------|-------------|-----|-----|-------|----|------|--|---|
| | G1 | G2 | g | N1 | KA | | KB | KC | KE | α | KM | KN(H8) | KO | KP | KQ | d(j6) | b | t1 | X | Y |
| | | | | | F | FL | | | | | | | | | | | | | | |
| 30 | 63 | 51 | 20 | 29 | 54.5 | | 6 | 4 | M6×11 (n4) | 0° | 68 | 50 | 6.5(4/90°) | 80 | 70 | 9 | 5 | 16.3 | See overall dimensions fro electric motor | |
| 40 | 78 | 60 | 23 | 36.5 | 67 | 97 | 7 | 4 | M6×8 (n4) | 45° | 87 | 60 | 9(4/90°) | 110 | 95 | 11 | 6 | 20.8 | | |
| 50 | 92 | 74 | 30 | 43.5 | 90 | 120 | 9 | 5 | M8×10 (n4) | 45° | 90 | 70 | 11(4/90°) | 125 | 110 | 14 | 8 | 28.3 | | |
| 63 | 112 | 90 | 40 | 53 | 82 | 112 | 10 | 6 | M8×14 (n8) | 45° | 150 | 115 | 11(4/90°) | 180 | 142 | 19 | 8 | 28.3 | | |
| 75 | 120 | 105 | 40 | 57 | 111 | | 13 | 6 | M8×14 (n8) | 45° | 165 | 130 | 14(4/90°) | 200 | 170 | 24 | 8 | 31.3 | | |
| 90 | 140 | 125 | 45 | 67 | 111 | | 13 | 6 | M10×18 (n8) | 45° | 175 | 152 | 14(4/90°) | 210 | 200 | 24 | 10 | 38.3 | | |
| 110 | 155 | 142 | 50 | 74 | 139 | | 15 | 6 | M10×18 (n8) | 45° | 220 | 170 | 14(4/90°) | 270 | 250 | 28 | 12 | 45.3 | | |
| 130 | 170 | 162 | 60 | 81 | 151.5 | | 15 | 6 | M12×20 (n8) | 45° | 255 | 180 | 16(4/45°) | 320 | 290 | 30 | 14 | 48.8 | | |
| 150 | 200 | 210 | 70 | 96 | 155 | | 15 | 7 | M12×21 (n8) | 45° | 255 | 180 | 16(8/45°) | 320 | 290 | 35 | 14 | 53.8 | | |
| 185 | 240 | 240 | 70 | 116 | 190 | | 22 | 7 | M16×25 (n8) | 45° | 350 | 280 | 22(8/45°) | 400 | 390 | 40 | 18 | 64.4 | | |

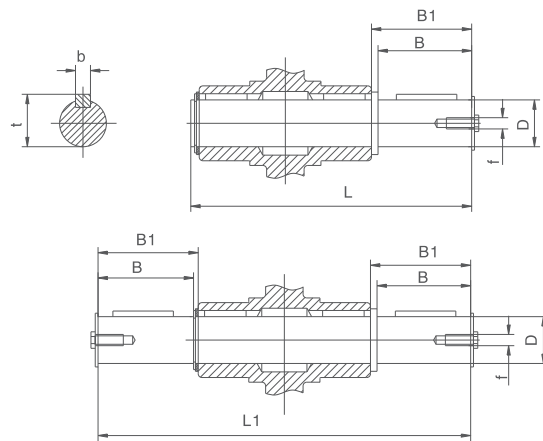
Overall dimensions for electric motor

| | 56 | | 63 | | 71 | | 80 | | 90 | | 100 | | 112 | 132 | | 160 | | 180 | |
|--------|------|------|------|------|------|------|------|------|-----|-----|-----|---|-----|-----|-----|-----|-----|------|-----|
| (kw) | 0.06 | 0.09 | 0.12 | 0.18 | 0.25 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3 | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 |
| X | 150 | | 207 | | 225 | | 245 | | 260 | 285 | 320 | | 340 | 395 | 435 | 490 | 535 | 560 | 600 |
| Y | 120 | | 130 | | 145 | | 165 | | 175 | | 205 | | 230 | 270 | | 325 | | 360 | |

Dimensions of single/double output shaft (Table 8)

| Type | D(h6) | B | B1 | L | L1 | f | b | t |
|------|-------|-----|------|-----|-----|-----|----|------|
| 25 | 11 | 23 | 25.5 | 81 | 101 | — | 4 | 12.5 |
| 30 | 14 | 30 | 32.5 | 102 | 128 | M6 | 5 | 16 |
| 40 | 18 | 40 | 43 | 128 | 164 | M6 | 6 | 20.5 |
| 50 | 25 | 50 | 53.5 | 153 | 199 | M10 | 8 | 28 |
| 63 | 25 | 50 | 53.5 | 173 | 219 | M10 | 8 | 28 |
| 75 | 28 | 60 | 63.5 | 192 | 247 | M10 | 8 | 31 |
| 90 | 35 | 80 | 84 | 234 | 308 | M12 | 10 | 38 |
| 110 | 42 | 80 | 84.5 | 249 | 324 | M16 | 12 | 45 |
| 130 | 45 | 80 | 85 | 265 | 340 | M16 | 14 | 48.5 |
| 150 | 50 | 102 | 110 | 324 | 420 | M20 | 14 | 53.5 |
| 185 | 60 | 112 | 120 | 374 | 480 | M20 | 18 | 64 |

Chart 5

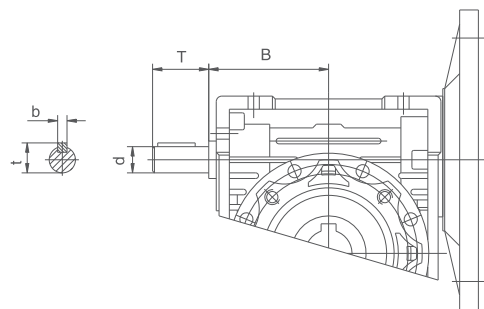


Dimensions of extension worm shafts
(Speed is as same as electric motor)

| Type | B | d(h6) | T | b | t |
|------|-----|-------|----|----|------|
| 25 | 38 | 9 | 18 | 3 | 10.2 |
| 30 | 45 | 9 | 20 | 3 | 10.2 |
| 40 | 53 | 11 | 23 | 4 | 12.5 |
| 50 | 64 | 14 | 30 | 5 | 16 |
| 63 | 75 | 19 | 40 | 6 | 21.5 |
| 75 | 90 | 24 | 50 | 8 | 27 |
| 90 | 108 | 24 | 50 | 8 | 27 |
| 110 | 135 | 28 | 60 | 8 | 31 |
| 130 | 155 | 30 | 80 | 8 | 33 |
| 150 | 210 | 35 | 80 | 10 | 38 |
| 185 | 240 | 40 | 80 | 12 | 43 |

(Table 9)

Chart 6

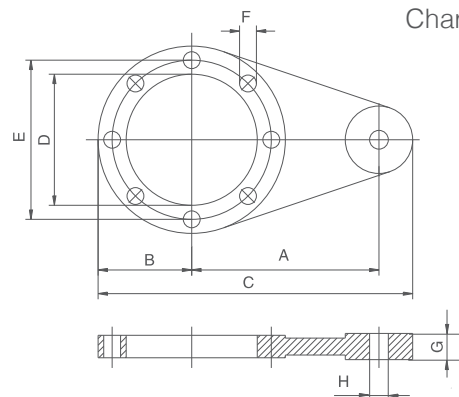


Dimensions of torque arms

(Table 10)

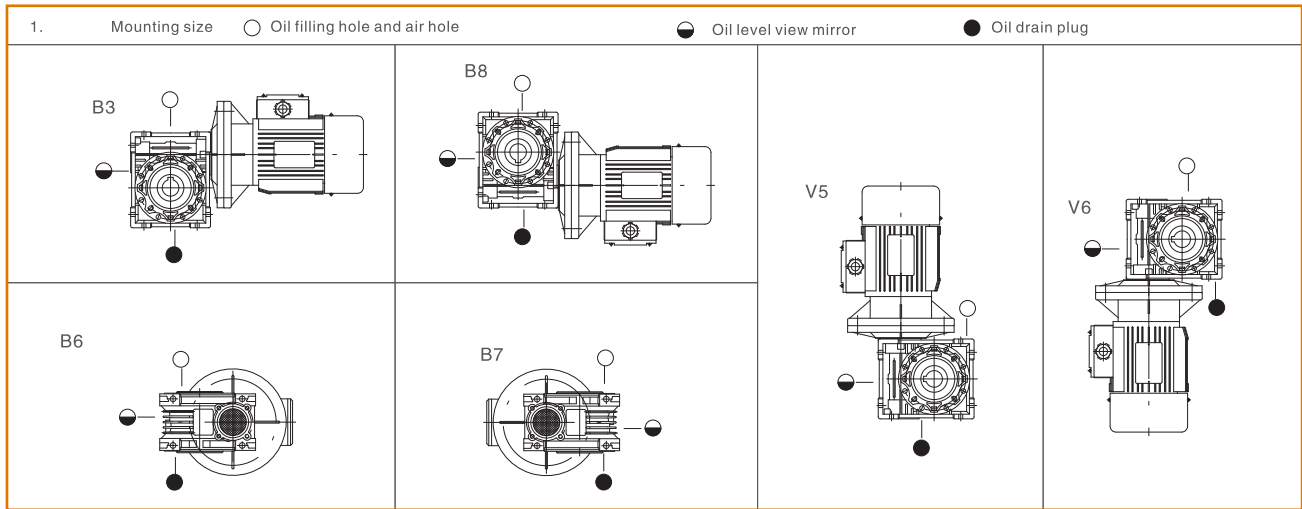
| Type | A | B | C | D | E | F | G | H | I |
|------|-----|-----|-----|-----|-----|----|----|----|----|
| 25 | 70 | 33 | 118 | 45 | 55 | 7 | 14 | 8 | 6 |
| 30 | 85 | 38 | 138 | 54 | 65 | 7 | 14 | 8 | 6 |
| 40 | 100 | 44 | 162 | 60 | 75 | 7 | 14 | 10 | 12 |
| 50 | 100 | 50 | 168 | 70 | 85 | 9 | 14 | 10 | 12 |
| 63 | 150 | 55 | 223 | 80 | 95 | 9 | 14 | 10 | 12 |
| 75 | 200 | 70 | 300 | 95 | 115 | 9 | 25 | 20 | 20 |
| 90 | 200 | 80 | 310 | 110 | 130 | 11 | 25 | 20 | 20 |
| 110 | 250 | 100 | 385 | 130 | 165 | 11 | 30 | 25 | 25 |
| 130 | 250 | 125 | 410 | 180 | 215 | 14 | 30 | 25 | 25 |
| 150 | 250 | 125 | 410 | 180 | 215 | 14 | 30 | 25 | 25 |
| 185 | 300 | 150 | 495 | 230 | 265 | 18 | 30 | 25 | 25 |

Chart 7



Installation type of reducer and the corresponding oil feeding amount and lubrication varieties

Chart 8



2. Oil amount to various installation patterns

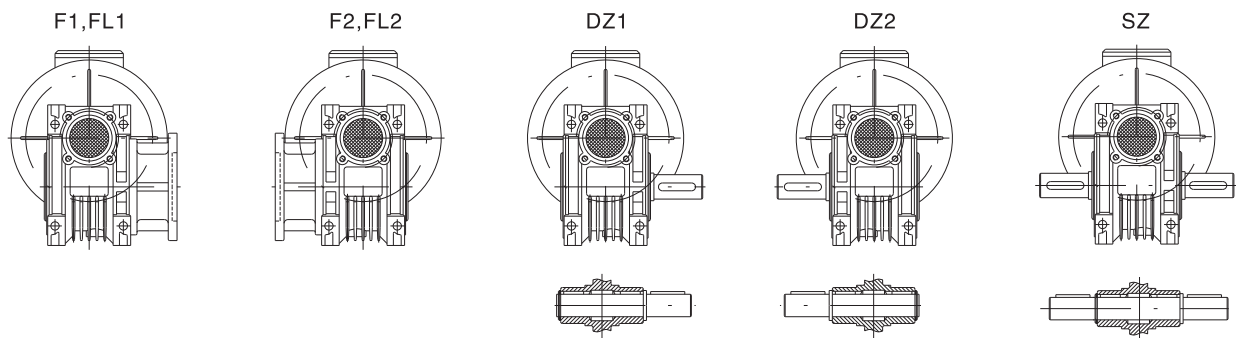
| Types of worm speed reducers | | RV25 | RV30 | RV40 | RV50 | RV63 | RV75 | RV90 | RV110 | RV130 | RV150 | RV185 |
|------------------------------|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| Lubricating oil | B3 | 0.02 | 0.04 | 0.08 | 0.15 | 0.3 | 0.55 | 1.0 | 3.0 | 4.5 | 5.5 | 8.0 |
| | B6.B7 | | | | | | | | 2.2 | 3.5 | 5.0 | 7.0 |
| | B8 | | | | | | | | 2.2 | 3.3 | 4.5 | 6.5 |
| | V5 | | | | | | | | 3.0 | 4.5 | 5.5 | 8.0 |
| | V6 | | | | | | | | 3.0 | 4.5 | 5.5 | 8.0 |

3. Lubricating oil

| Types of worm speed reducers | RV25、RV40、RV50、RV63、RV75、RV90 | RV25、RV40、RV50、RV63、RV75、RV90 | | |
|------------------------------|-------------------------------|-------------------------------|--------------------------|-------------------|
| Lubricant | Oil sintetice synthetic oil | Oil sintetice synthetic oil | Oil minerale mineral oil | |
| Ambient Temperature | -25℃ ~ +50℃ | -25℃ ~ +50℃ | -5℃ ~ +40℃ | -15℃ ~ +40℃ |
| AGIP | TELUM | MELLANAOIL 320 | BLASIA 460 | BLASIA 220 |
| SHELL | TIVELA OIL SC320 | OMALA OIL 320 | OMALA OIL 460 | OMALA OIL 220 |
| ESSO | S220 | S220 | SPARTAN EP 460 | SPARTAN EP 220 |
| MOBIL | GLYGOYLE 30 | MOBIL GEAR320 | MOBIL GEAR 634 | MOBIL GEAR 630 |
| CASTROL | ALPHASYN PG 320 | ALPHASYN PG 320 | ALPHA MAX 460 | ALPHA MAX 220 |
| BP | ENERGOL SG-XP 320 | ENERGOL SG-XP 320 | ENETGOL SG-XP 460 | ENETGOL SG-XP 220 |

Installation pattern of output flange F、FL,output spindle DZ、SZ of speed reducers

Chart 9



Installation pattern of motor wiring box

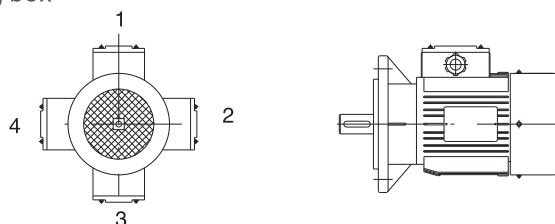
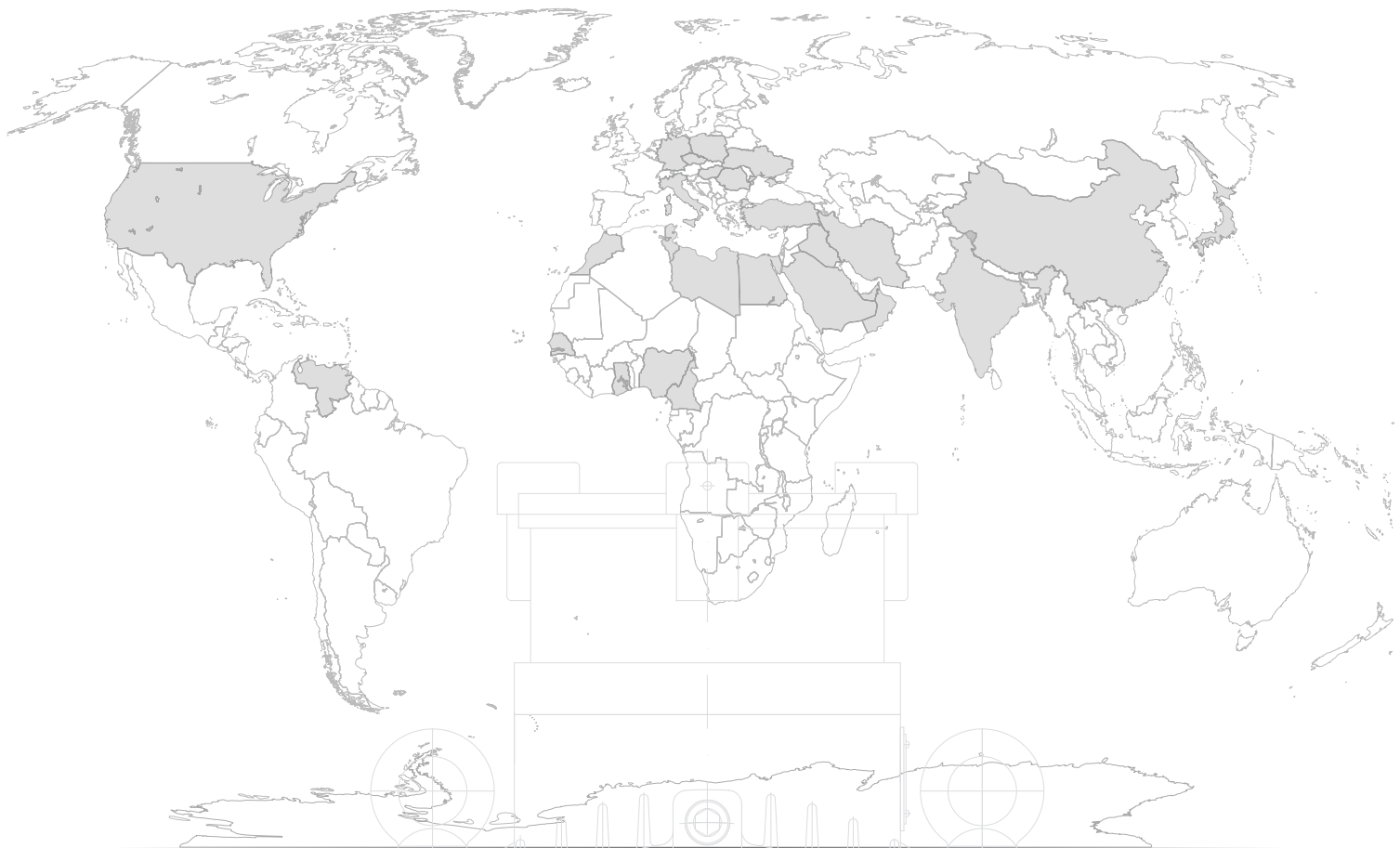


Chart 10

CATALOGUE

OMGB - Gear Box Series



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