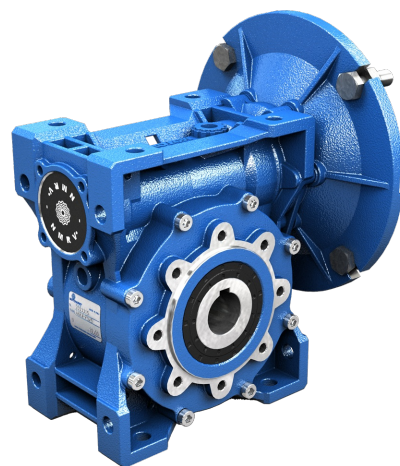


# PRODUCT DATASHEET



## WORM**GEAR**REDUCER

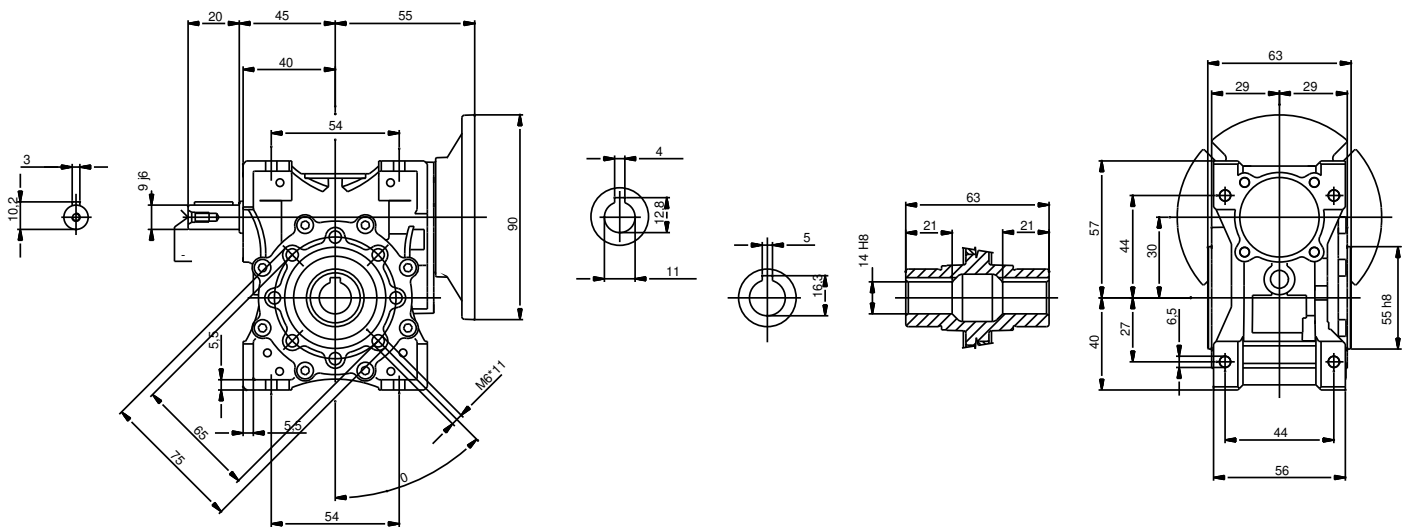
**DATE** 05.05.2026

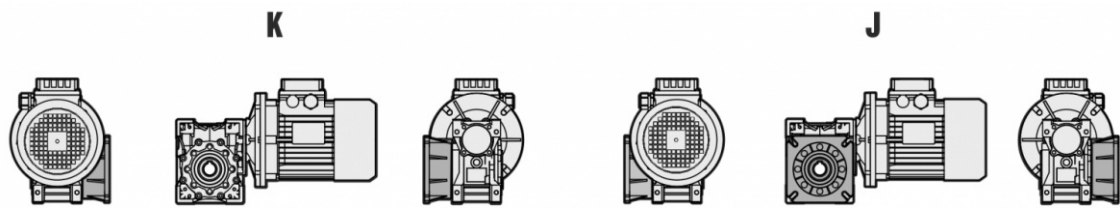
# CONFIGURATION

## PRODUCT DATASHEET

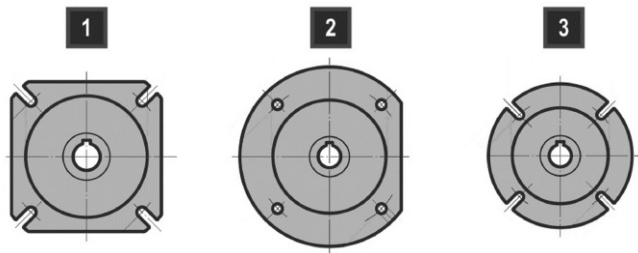
| CHARACTERISTIC             | VALUE               |
|----------------------------|---------------------|
| Regulations                | No                  |
| Worm                       | PAM NMRV            |
| Size                       | 030                 |
| Ratio (i)                  | 5,0                 |
| Input Dim.                 | Ø90x11 (IEC63 B14)  |
| Hollow Output Shaft Dim.   | Ø14                 |
| Double-Extended Worm Shaft | No                  |
| Mounting Position          | U                   |
| VI-Output Oil Seal         | NBR-Nitrile         |
| VI-Input Oil Seal          | ACM-Polyacrylate    |
| VI-Output Bearings         | Ball Bearings       |
| VI-Lubrication             | Synthetic ISO VG320 |
| Paint                      | Ral 5010 Blue       |

Values expressed in [mm]





Unless specified otherwise, the reduction unit is supplied with the flange in pos. J referred to position B3.



|    | NMRV - SW | NMRV - SW | NMRV - SW | NMRV-P - SW | NMRV-P - SW | NMRV-P - SW | SW  | NMRV-P | NMRV | NMRV |
|----|-----------|-----------|-----------|-------------|-------------|-------------|-----|--------|------|------|
|    | 030       | 040       | 050       | 063         | 075         | 090         | 105 | 110    | 130  | 150  |
| FA | 1         | 1         | 1         | 1           | 1           | 1           | 1   | 1      | 1    | 1    |
| FB | -         | 1         | 1         | 1           | 3           | 2           | 1   | 1      | -    | -    |
| FC | -         | 2         | 2         | 2           | -           | 3           | -   | -      | -    | -    |
| FD | -         | 2         | 2         | 2           | -           | 1           | -   | -      | -    | -    |
| FE | -         | -         | -         | 3           | -           | -           | -   | -      | -    | -    |

## DRAWINGS

## PRODUCT DATASHEET

The values reported in the tables are referred to the weight of the gearbox with lubricant included.  
Weight without motor.

| NMRV - NMRV-P (- kg) |     |     |     |     |     |     |     |      |     |
|----------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|
| 025                  | 030 | 040 | 050 | 063 | 075 | 090 | 110 | 130  | 150 |
| 0,7                  | 1,2 | 2,3 | 3,5 | 6,2 | 9   | 13  | 21  | 43,5 | 84  |

| NRV - NRV-P (- kg) |     |     |     |     |     |     |      |     |  |
|--------------------|-----|-----|-----|-----|-----|-----|------|-----|--|
| 030                | 040 | 050 | 063 | 075 | 090 | 110 | 130  | 150 |  |
| 1                  | 2   | 3,3 | 5,8 | 8,8 | 13  | 21  | 43,5 | 77  |  |

|     | HA31+NMRV040<br>(- kg) | HA31+NMRV050<br>(- kg) |
|-----|------------------------|------------------------|
| 063 | 4,2                    | 5,4                    |
| 071 | 4,3                    | 5,5                    |
| 080 | 4,5                    | 5,7                    |

| 056/063/071/080           |  |  |  |  | 063/071/080/090           |  |  |  |  |
|---------------------------|--|--|--|--|---------------------------|--|--|--|--|
| NMRV-P063/HW030<br>(- kg) |  |  |  |  | NMRV-P075/HW030<br>(- kg) |  |  |  |  |
| 7,1                       |  |  |  |  | 10                        |  |  |  |  |

| NMRV-P090/HW040<br>(- kg) |  |  |  |  | NMRV-P110/HW040<br>(- kg) |  |  |  |  |
|---------------------------|--|--|--|--|---------------------------|--|--|--|--|
| 14,6                      |  |  |  |  | 24,4                      |  |  |  |  |

| NMRV-<br>P090/IHW040<br>(- kg) | NMRV-<br>P110/IHW040<br>(- kg) |
|--------------------------------|--------------------------------|
| 14,6                           | 38,4                           |

| NMRV+NMRV - NMRV+NMRV-P - NMRV-P+NMRV - NMRV-P+NMRV-P (- kg) |         |         |         |         |         |         |         |         |         |         |         |         |         |
|--------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 025-030                                                      | 025-040 | 030-040 | 030-050 | 030-063 | 040-050 | 040-063 | 040-075 | 040-090 | 050-090 | 050-110 | 063-110 | 063-130 | 063-150 |
| 1,9                                                          | 3       | 3,5     | 4,7     | 7,4     | 5,8     | 8,5     | 11,3    | 15,3    | 16,5    | 38,5    | 41,2    | 54,2    | 90,2    |

| NRV+NMRV - NRV+NMRV-P - NRV-P+NMRV - NRV-P+NMRV-P (- kg) |         |         |         |         |         |         |         |         |         |         |         |  |
|----------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| 030-040                                                  | 030-050 | 030-063 | 040-050 | 040-063 | 040-075 | 040-090 | 050-090 | 050-110 | 063-110 | 063-130 | 063-150 |  |
| 3,5                                                      | 4,7     | 7,4     | 5,8     | 8,5     | 11,3    | 15,3    | 16,5    | 38,5    | 41,2    | 54,2    | 90,2    |  |

The values reported in the tables are referred to the weight of the gearbox with lubricant included.  
Weight without motor.

| SW (- kg) |     |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|-----|
| 030       | 040 | 050 | 063 | 075 | 090 | 105 |
| 1,2       | 2,3 | 3,5 | 6,2 | 9   | 13  | 21  |

| ISW (- kg) |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|
| 030        | 040 | 050 | 063 | 075 | 090 | 105 |
| 1          | 2   | 3,3 | 5,8 | 8,8 | 13  | 21  |

|     | HA31+SW040<br>(- kg) | HA31+SW050<br>(- kg) | HA31+SW063<br>(- kg) | HA31+SW075<br>(- kg) | HA31+SW090<br>(- kg) |
|-----|----------------------|----------------------|----------------------|----------------------|----------------------|
| 063 | 4,2                  | 5,4                  | 8,1                  | 10,9                 | 14,9                 |
| 071 | 4,3                  | 5,5                  | 8,2                  | 11,0                 | 15,0                 |
| 080 | 4,5                  | 5,7                  | 8,4                  | 11,2                 | 15,2                 |

| SW+SW (- kg) |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|
| 030-040      | 030-050 | 030-063 | 040-075 | 040-090 | 050-105 |
| 3,5          | 4,7     | 7,4     | 11,3    | 15,3    | 38,5    |

| ISW+SW (- kg) |         |         |         |         |         |
|---------------|---------|---------|---------|---------|---------|
| 030-040       | 030-050 | 030-063 | 040-075 | 040-090 | 050-105 |
| 3,5           | 4,7     | 7,4     | 11,3    | 15,3    | 38,5    |

PERFORMANCES

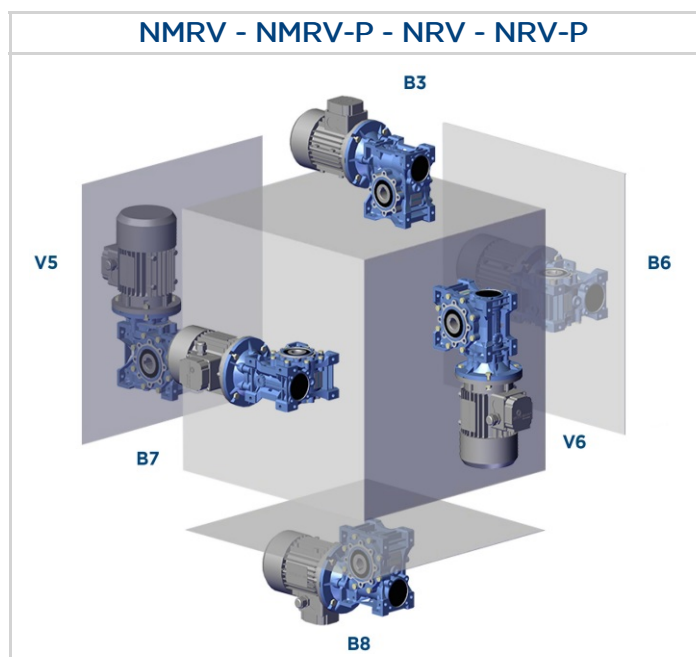
PRODUCT DATASHEET

NRV030

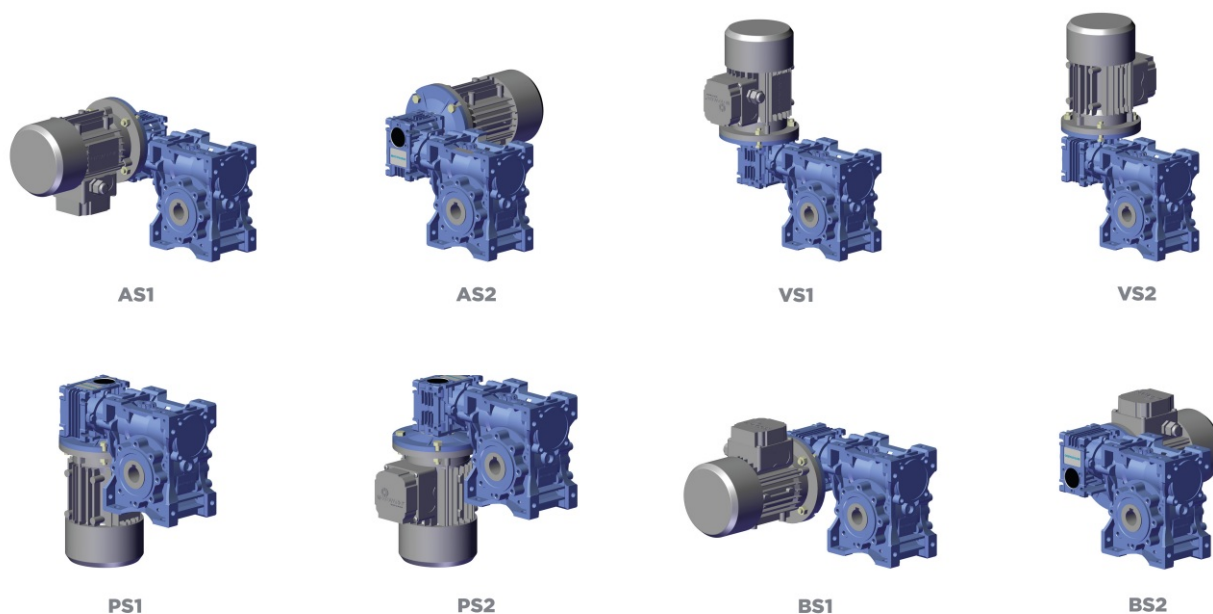
| n <sub>1</sub><br>[rpm] | Mn <sub>2</sub><br>[Nm] | i    | Pn <sub>1</sub><br>[kW] | n <sub>2</sub><br>[rpm] | Fr <sub>1</sub><br>[N] | Fr <sub>2</sub><br>[N] |
|-------------------------|-------------------------|------|-------------------------|-------------------------|------------------------|------------------------|
| 500                     | 25                      | 5,00 | 0,31                    | 100,0                   | 210                    | 841                    |
| 900                     | 21                      | 5,00 | 0,47                    | 180,0                   | 175                    | 692                    |
| 1140                    | 20                      | 5,00 | 0,56                    | 228,0                   | 175                    | 639                    |
| 1400                    | 19                      | 5,00 | 0,64                    | 280,0                   | 150                    | 597                    |
| 1750                    | 18                      | 5,00 | 0,76                    | 350,0                   | 150                    | 554                    |
| 2800                    | 12                      | 5,00 | 0,79                    | 560,0                   | 115                    | 474                    |

## MOUNTING POSITIONS

The mounting position of the gear unit identifies its space orientation. B3 mounting position, as from a technical point of view, ensures lower oil splash, better lubrication and less heating.



## Execution

**NMRV/NMRV-P+NMRV/NMRV-P - NRV/NRV-P+NMRV/NMRV-P**

## LUBRICANT

## PRODUCT DATASHEET

- The gear reducers size 025 - 030 - 040 - 050 - 063 - 075 - 090 - 105 - 110 - 130 - 150 are supplied complete with lubricant for life, synthetic oil, LAND OIL GEAR SINT. They can be mounted in any position envisaged in the catalogue, except for NMRV-P/SW 090 - 110 and NRV-P/ISW 075-090-110 for which you must specify the mounting position.
- For sizes 130 and 150 it is necessary to specify the position, otherwise the gear reducers are supplied with the quantity of oil relating to pos. B3.
- Only reduction units 130 and 150 are fitted with breather, level and oil drainage plugs.
- The pre-stage helical modules are supplied complete with life-long lubricant, synthetic oil, LAND OIL GEAR SINT. Lubrication is separated from that of the worm gear reducers.

It is recommended, after installation, to replace the closed plug used for transportation with the supplied breather plug.

Quantity of oil in litres ~

| NMRV  | 025  | 030  | 040  | 050  | 130 | 150 |
|-------|------|------|------|------|-----|-----|
| B3    | 0,02 | 0,04 | 0,08 | 0,15 | 4,5 | 7   |
| B8    |      |      |      |      | 3,3 | 5,1 |
| B6-B7 |      |      |      |      | 3,5 | 5,4 |
| V5    |      |      |      |      | 4,5 | 7   |
| V6    |      |      |      |      | 3,3 | 5,1 |

| NMRV-P | 063  | 075  | 090  | 110 |
|--------|------|------|------|-----|
| B3     | 0,33 | 0,55 | 1,15 | 1,6 |
| B8     |      |      |      |     |
| B6-B7  |      |      |      |     |
| V5     |      |      |      |     |
| V6     |      |      |      |     |

| SW    | 030  | 040  | 050  | 063 | 075  | 090 | 105 |
|-------|------|------|------|-----|------|-----|-----|
| B3    | 0,04 | 0,08 | 0,15 | 0,3 | 0,55 | 1   | 1,6 |
| B8    |      |      |      |     |      |     |     |
| B6-B7 |      |      |      |     |      |     |     |
| V5    |      |      |      |     |      |     |     |
| V6    |      |      |      |     |      |     |     |

| HW                | HW030     |           | HW040     |           |
|-------------------|-----------|-----------|-----------|-----------|
|                   | NMRV-P063 | NMRV-P075 | NMRV-P090 | NMRV-P110 |
| B3-B6-B7-B8-V5-V6 | 0,06      | 0,09      | 0,11      | 0,12      |

| H     | A31  |
|-------|------|
| B3-B5 | 0,07 |

LUBRICANT

PRODUCT DATASHEET

| NMRV  | 063 | 075  | 090 | 105 | 110 |
|-------|-----|------|-----|-----|-----|
| B3    | 0,3 | 0,55 | 1   | 1,6 | 3   |
| B8    |     |      |     |     | 2,2 |
| B6-B7 |     |      |     |     | 2,5 |
| V5    |     |      |     |     | 3   |
| V6    |     |      |     |     | 2,2 |

# DIRECTION OF ROTATION

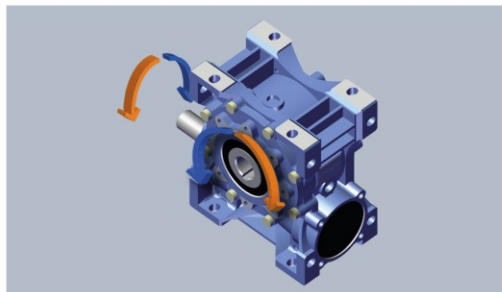
The worm screw rotation is right-handed.

## DIRECTION OF ROTATION - HIGH SPEED SHAFT

### NMRV - NRV - SW - ISW

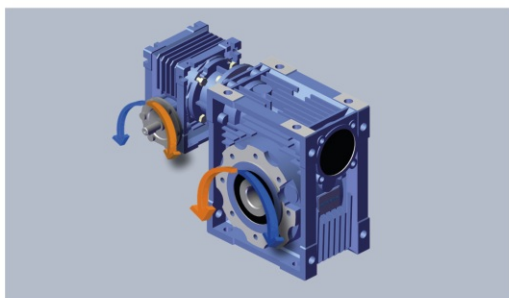


MOUNTING POSITION **B3**

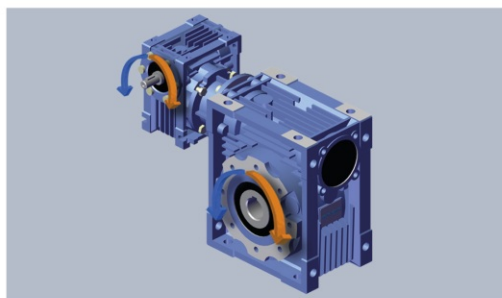


MOUNTING POSITION **B8**

### NMRV + NMRV - SW + SW - NRV + NMRV - ISW + SW



MOUNTING POSITION **BS1**



MOUNTING POSITION **AS1**