



# Worm Gear Reducers

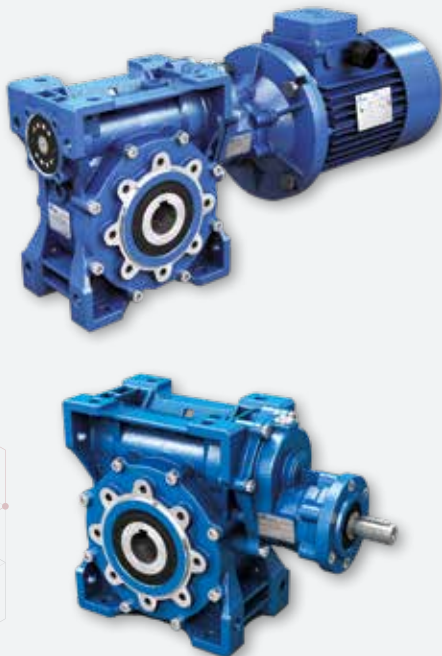


## NMRV Worm geared motor with HA31 pre-stage



- HA31 is the new single stage helical gear reducer available as pre-stage for the worm gear boxes NMRV040 and NMRV050; it can be supplied as a separate unit to be mounted on any type of fitted geared motor
- Die-cast aluminium alloy casing; gears hardened and tempered with shaved profile steel 20MnCr5 (UNI7846)
- Available as unpainted or painted with RAL 5010 blue epoxy-polyester powder
- Power up to 0,12-0,75 hp and motor sizes up to 080
- Combined total ratios between 22,08 and 315
- Max Torque of group HA31+worm gear reducer 120 in-lb
- Radial load 1088 lb
- IEC 4840 lb

## NMRV-P Worm geared motor with HW pre-stage



- The pre-stage units called HW are two: HW030 which can be mounted on gearboxes NMRVpower063-075 and HW040 which can be fitted with gearboxes NMRVpower 090-110
- The modular pre-stage construction allows for both IEC and NEMA motor connections
- Casing in aluminium alloy. Steel gears 20MnCr5 (UNI7846), hardened, tempered and carefully scraped
- Power up to 0.12-5 HP, NEMA 56C-180TC
- Combined total ratios between 22,08 and 1.083,33
- Max Torque of group HW+worm gear reducer 9867 lb
- Max radial load 2320 lb
- IEC 10320 lb

# FEATURES



NMRV and NMRVpower worm gear reducers currently represent the most advanced solution to market requirements in terms of **efficiency** and **flexibility**. The new NMRVpower series, also available as compact integral helical/worm option, has been designed to guarantee a **high modularity**. Low number of basic models can be applied to a **wide range of power ratings** guaranteeing high performance.

## NMRV®

SIZES:

025-030-040-050-130-150



NMRV

Fitted for quill input



NMRV-P

Fitted for motor coupling



SIZES:

063-075-090-110

- Cases up to 110 in die-cast aluminium alloy and over 130 in G200 grey cast iron
- Aluminium units are supplied complete with synthetic oil and allow for universal mounting positions, with no need to modify lubricant quantity
- Worm wheel: bronze Cu Sn12 Ni2 (UNI7013-10)
- Ground worm profile ZI (UNI4760)
- Excellent mechanical strength and particularly lightweight
- Loading capacity in accordance with: ISO.14521, DIN.3996, BS 721, AGMA 6034, ISO 6336, DIN 3990, DIN 743, ISO 281
- Size 030 and over are painted with RAL 5010 blue epoxy-polyester powder
- Available with pre-stage unit: PC for NMRV Series, HW for NMRV-P Series
- Worm gear reducers are available with different combinations: NMRV/NMRV, NMRV/NMRV-P, NMRV-P/NMRV-P and NMRV-P/NMRV
- ATEX versions available: 3GD/2GD

## OTHER VERSIONS



NRV

With Input Shaft



NRV-P

With Input Shaft



NMRV/NMRV-P

Combined Worm Geared Motor

# RANGE



## WORM GEARED MOTOR



|            | Output torque M <sub>2</sub> [lb] |            | Ratio |     |
|------------|-----------------------------------|------------|-------|-----|
|            | Min                               | Max        | Min   | Max |
| NMRV 030   | 2,922517                          | 4,271371   | 5     | 80  |
| NMRV 040   | 6,519461                          | 10,790832  |       | 100 |
| NMRV 050   | 12,364495                         | 19,783192  |       |     |
| NMRV-P 063 | 26,527462                         | 35,96944   |       |     |
| NMRV-P 075 | 40,46562                          | 55,527823  |       |     |
| NMRV-P 090 | 60,69843                          | 97,117488  |       |     |
| NMRV-P 110 | 96,66787                          | 162,986525 |       |     |
| NMRV 130   | 166,35866                         | 236,04945  |       |     |
| NMRV 150   | 224,809                           | 348,45395  |       |     |

- Power up to 0,12-15 hp
- Ratios between 5 and 100
- Max torque up to 13718 in-lb
- Admissible radial loads max 3445 lb

## COMBINED WORM GEARED MOTOR



|                            | Output torque $M_2$ [lb] |            | Ratio |       |
|----------------------------|--------------------------|------------|-------|-------|
|                            | Min                      | Max        | Min   | Max   |
| <b>NMRV 030/040</b>        | 9,666787                 | 16,411057  | 100   | 5,000 |
| <b>NMRV 030/050</b>        | 17,759911                | 32,597305  |       |       |
| <b>NMRV 030/NMRV-P 063</b> | 33,72135                 | 60,923239  |       |       |
| <b>NMRV 040/050</b>        | 26,97708                 | 32,597305  |       |       |
| <b>NMRV 040/NMRV-P 063</b> | 51,930879                | 60,923239  |       |       |
| <b>NMRV 040/NMRV-P 075</b> | 79,132768                | 99,815196  |       |       |
| <b>NMRV 040/NMRV-P 090</b> | 81,156049                | 157,3663   |       |       |
| <b>NMRV 050/NMRV-P 110</b> | 145,676232               | 284,383385 |       |       |
| <b>NMRV-P 063/110</b>      | 247,2899                 | 284,383385 |       |       |
| <b>NMRV-P 063/NMRV 130</b> | 252,460507               | 395,66384  |       |       |
| <b>NMRV-P 063/NMRV 150</b> | 443,098539               | 600,24003  |       |       |

- Power up to 0,12-2 hp
- Ratios between 100 and 5,000
- Max torque up to 23,631 in-lb
- Max radial load 4,047 lb
- IEC 16508 N

# ACCESSORIES

## PROTECTION COVER



## OUTPUT FLANGES



FA



FB



FC



FD



FE

|                   | FA | FB | FC | FD | FE |
|-------------------|----|----|----|----|----|
| <b>NMRV 030</b>   | •  | -  | -  | -  | -  |
| <b>NMRV 040</b>   | •  | •  | •  | •  | -  |
| <b>NMRV 050</b>   | •  | •  | •  | •  | -  |
| <b>NMRV-P 063</b> | •  | •  | •  | •  | •  |
| <b>NMRV-P 075</b> | •  | •  | -  | -  | -  |
| <b>NMRV-P 090</b> | •  | •  | •  | •  | -  |
| <b>NMRV-P 110</b> | •  | •  | -  | -  | -  |
| <b>NMRV 130</b>   | •  | -  | -  | -  | -  |
| <b>NMRV 150</b>   | •  | -  | -  | -  | -  |

• Available

- Not Available

## SOLID OUTPUT SHAFT



Single output shaft



Double output shaft

## TORQUE ARM



## TORQUE LIMITER



Available versions NMRL 050 and NMRL-P 063-075-090

## OTHER ACCESSORIES

- Viton oil seals
- Low/high temperature and food grade oil
- Filling/Drain/Breather/Level plug
- Reinforced Output

# SALES NETWORK



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