



# Worm Geared Motors

**NMRV**<sup>®</sup> **NMRV**<sup>™</sup>  
*POWER*

**TECO**   **Westinghouse**

[www.tecowestinghouse.com](http://www.tecowestinghouse.com)

# 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**. A 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 Motor Coupling



**NMRV-P**  
Fitted for Motor Coupling

**Sizes:**

**063-075-090-110**

- Cases up to 110 in die-cast aluminum alloy and over 130 in G200 grey cast iron
- Aluminum 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 according to DIN 1843
- 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



	List Price (\$)	Output Torque M <sub>2</sub> [in-lbs]		Ratio	
		Min	Max	Min	Max
<b>NMRV 030</b>	323	115	168	5	80
<b>NMRV 040</b>	400	257	425		
<b>NMRV 050</b>	525	487	779		
<b>NMRV-P 063</b>	829	1044	1416	7,5	100
<b>NMRV-P 075</b>	900	1593	2186		
<b>NMRV-P 090</b>	1115	2390	3823		
<b>NMRV-P 110</b>	1613	4275	6416		
<b>NMRV 130</b>	2655	6549	9293		
<b>NMRV 150</b>	3397	8850	13,718		

- Power up to 20 HP
- Ratios between 5 and 100
- Max Torque 13,718 in-lbs
- Admissible radial loads max 4047 lbf

## Combined Worm Geared Motor



	List Price (\$)	Output Torque M <sub>2</sub> [in-lbs]		Ratio	
		Min	Max	Min	Max
<b>NMRV 030/050</b>	797	699	1283	100	5000
<b>NMRV 030 / NMRV-P 063</b>	1091	1328	2398		
<b>NMRV 040/050</b>	864	1062	1283		
<b>NMRV 040 / NMRV-P 063</b>	1104	2044	2398		
<b>NMRV 040 / NMRV-P 075</b>	1262	3115	3929		
<b>NMRV 040 / NMRV-P 090</b>	1529	3195	6195		
<b>NMRV 050 / NMRV-P 090</b>	1653	4956	6195		
<b>NMRV 050 / NMRV-P 110</b>	2283	5735	11,195		
<b>NMRV-P 063/110</b>	2587	9735	11,195		
<b>NMRV-P 063 / NMRV 130</b>	3531	9939	15,576		
<b>NMRV-P 063 / NMRV 150</b>	4136	17,443	26,630		

- Power up to 2.5 HP
- Ratios between 100 and 5000
- Max Torque 26,630 in-lbs

# ACCESSORIES



## Protection Cover



## Output Flanges

	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



FA



FB



FC



FD



FE

## Solid Output Shaft



Single Output Shaft



Double Output Shaft

## Torque Arm



## Torque Limiter

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



## Other Accessories

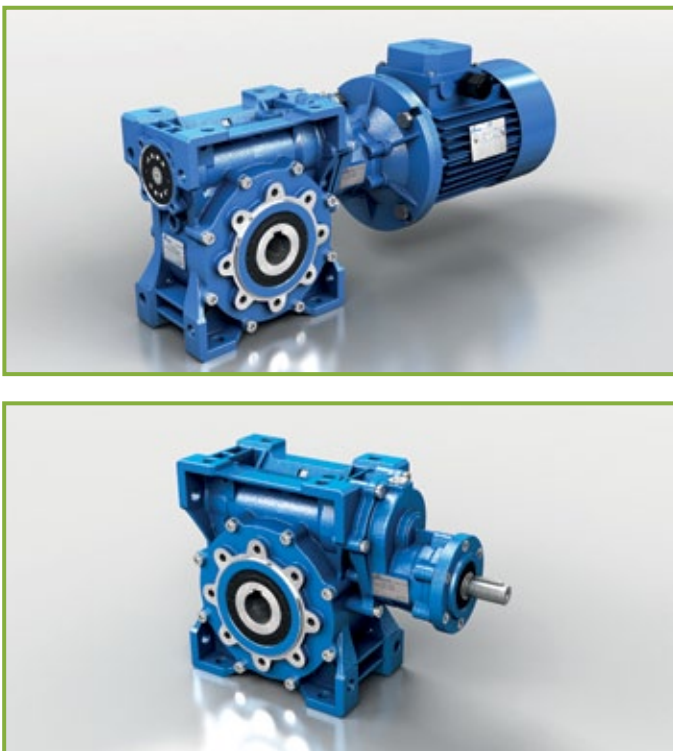
- Viton oil seals
- Low/high temperature and food grade oil
- Filling/ drain/ breather/ level plug
- Reinforced output

## 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 also be supplied as a separate unit to be mounted on any type of fitted geared motor.
- Die-cast aluminum alloy casing; gears hard and tempered with shaved profile steel 20M (UNI7846)
- Available as unpainted or painted with RAL blue epoxy-polyester powder
- Power up to 1.5 HP and motor sizes up to IEC 080
- Combined total ratios between 22.08 and 315
- Max Torque of group HA31+worm gear reducer 1823 in-lbs

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



- The pre-stage units called HW are available in two options: HW030, which can be mounted on NMRVpower 063-075 gearboxes and HW040, which can be fitted with NMRVpower 090-110 gearboxes.
- The pre-stage construction is modular and therefore it can be supplied for various motor connections both NEMA and IEC.
- Casing in aluminum alloy. Steel gears 20MnCr5 (UNI7846), hardened, tempered and carefully scraped
- Power up to 2.5 HP and motor sizes up to IEC 090
- Combined total ratios between 22.08 and 1083.33
- Max Torque of group HW+worm gear reducer 10.523 in-lbs

# GLOBAL PRESENCE



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