



TRANSMISSION

DRIVE TO THE FUTURE

AC / DC GEAR MOTOR



BRUSHLESS DC GEAR MOTOR



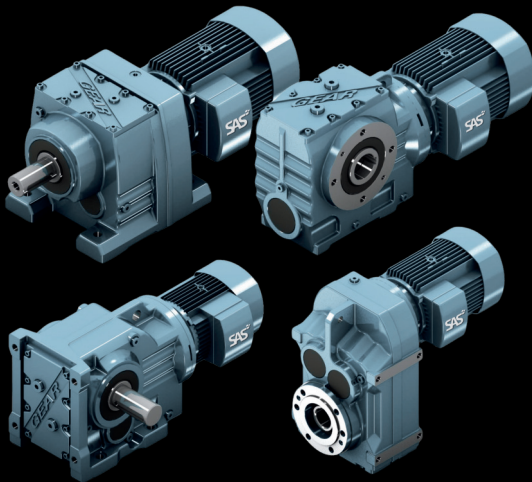
SERVO MOTOR & SERVO DRIVE



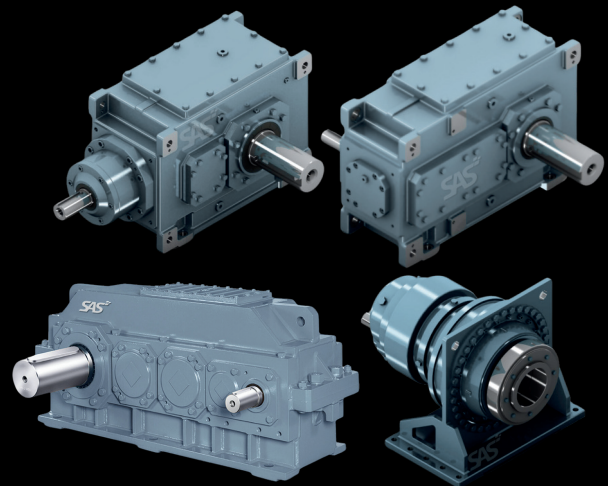
HIGH PRECISION PLANETARY GEAR



4 SERIES GEAR MOTOR



HEAVY DUTY INDUSTRIAL GEAR BOX



IEC STANDARD MOTOR



HYPOID GEAR



NMRV WORM GEAR REDUCER



AC / DC Gear Motor



Power Motor : AC Gear Motor

: 10W , 15W , 25W , 40W , 60W , 90W , 120W , 140W , 200W

Type of Motor

1. Induction Motor .,
2. Reversible Motor .,
3. Variable Speed Motor .,
4. Electromagnetic Brake.

Voltage AC Gear Motor

- A : Single Phase 100V ., 50Hz or 60Hz 4Pole
- B : Single Phase 110V ., 50Hz 2Pole
- C : Single Phase 220/230V 4Pole
- D : Single Phase 220V ., 50Hz 2Pole
- E : Single Phase 110/120V ., 60Hz 4Pole
- H : Single Phase 220/230V ., 60Hz 4Pole
- S : Three Phase 200/220/230V ., 50/60Hz 4Pole
- S3 : Three Phase 380/400V/415V ., 50/60Hz 4Pole
- T : Three Phase 200/220/230V ., 50/60Hz 2Pole
- T3 : Three Phase 380/400/415V ., 50/60Hz 2Pole

Power Motor : DC Gear Motor

: 10W , 15W , 25W , 40W , 60W , 90W , 120W , 250W , 300W

Voltage DC Gear Motor

: 12VDC ., 24VDC ., 90VDC

Output Speed (rpm)

**3000

Brush Life (H)

**2000

Overheat Protection

Thermal protector inside : Class B & Class F

Ambient Temperature

: ≤85% (Noncondensing)

Protection Class

: Lead Wire Type : IP20 .,
Terminal Box Type : IP54



Gear Head

**Flame Size : 0:42mm ., 2:60mm ., 3: 70mm .,
4: 80mm ., 5: 90mm., 6: 104mm.

Type of Pinion

**GN Type Gear ., **GU Type Gear

Gear Ratio

: 1/3 , 1/3.6 , 1/5 , 1/6 , 1/7.5 , 1/9 , 1/12.5 , 1/15 , 1/18 , 1/25 , 1/30 , 1/ 36
, 1/50 , 1/60 , 1/75 , 1/90 , 1/100 , 1/120 , 1/150 , 1/180 , 1/200

Type of Output Shaft

- **RH : Hollow Shaft
- **RA : Worm Output Shaft
- **RC : Spiral Bevel Hollow Shaft
- **RT : Spiral Bevel Solid Shaft



Speed Controller

UX Series Speed Controller With Digital Display Panel

- ** MCU digital control technology that features great variety of functions and excellent performance.
- ** Digital display menu that is easy to change settings
- **Set magnification and automatic conversion into target value to meet with customer needs.
- **Achieve slow acceleration and slow deceleration adjustment.
- **Panel operation or external switch control.



| Supply voltage | Motor power | QF Current specifications |
|----------------|-------------|---------------------------|
| 220V | 6~200W | 2A |
| 220V | 200W | 3A |
| 110V | 6~200W | 4A |
| 110V | 200W | 6A |



Brushless DC Gear Motor



Motor Type

BLD: Brushless motor with square gearbox; BLPD: Brushless motor with planetary gearbox

Output Power

10W, 15W, 25W, 40W, 60W, 90W, 200W, 400W

Voltage

24: DC24V, 36: DC36V, 48: DC48V, 110: DC110V, 220: DC220V

Motor Speed

15S: 1500RPM, 18S: 1800RPM, 25S: 2500RPM, 30S: 3000RPM

Motor Shaft Shape

C: Helical teeth, A: optical axis

Gear Head Ratio

GN/GU: 1/3, 1/3.6, 1/5, -1/200, 1/250, 1/300
GFS: 1/5, -1/200

Square Type Reducer

GN: General helical gear, GU: Reinforced helical gear
GFS: L Type Hollow Flat Reduction Box



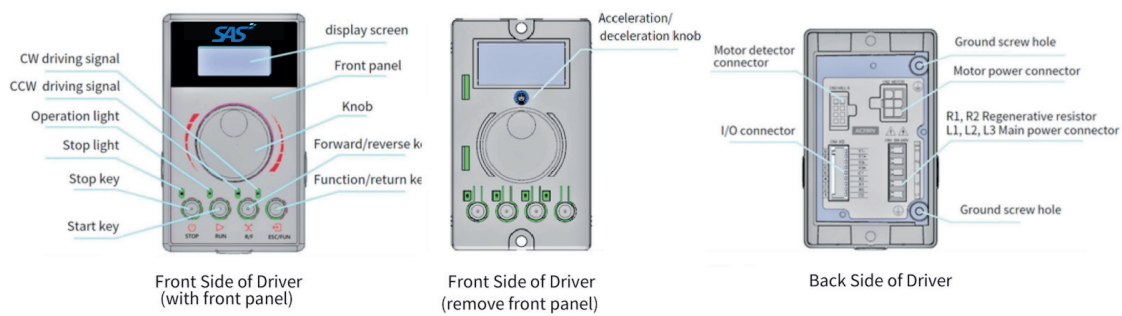
Driver Controller

BUD SERIES DRIVER AC INPUT

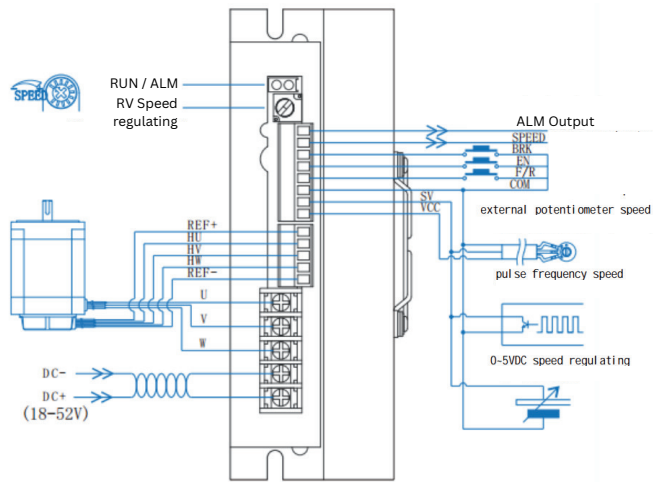
**Single-Phase or Three-Phase. Input voltage of alternating current

FEATURE-RICH

**Reverse direction **Modify velocity **Setting for Acceleration/Deceleration Time
**Various speed configurations **Operatings model selection. **Protection function , Alarm indication



** Digital display menu that is easy to change settings
**Set magnification and automatic conversion into target value to meet with customer needs.
**Panel operation or external switch control.



SERVO DRIVE & SERVO MOTOR

HIGH PERFORMANCE



- RATE POWER : 100W - 3000W
- INTERFACE : PULSE , ETHERCAT
- RATE VOLTAGE : AC220V - AC380V
- RATE SPEED : 1500RPM-3000RPM
- HIGH INERTIA

- STANDARD FLANGE : Ø60 , Ø80 , Ø100 , Ø110 , Ø130 , Ø180

- ENCODER : 17-BIT INCREMENTAL, MAGNETIC, 17-BIT ABSOLUTE, MAGNETIC., 23-BIT, OPTICAL ENCODER OR 23-BIT MULTI-TURN OPTICAL ENCODER

- OPTIONS : WITH BRAKE , WITH OIL SEAL

- SHAFT : FLANGE OUTPUT , STRAIGHT SHAFT , KEYWAY , NO THREAD OR THREAD

HIGH PRECISION PLANETARY GEAR

- ***LOW NOISE:** The use of helical gear design , to achieve a smooth, quiet operation of the reducer
- ***HIGH PRECISION :** Backlash 3 arcmin or less , accurate positioning
- ***HIGH RIGIDITY , HIGH TORQUE**
- ***HIGH EFFICIENCY:** 1-Stage up to 95% or more , 2-Stage up to 92% or more
- ***MAINTENANCE-Free :** Low grease wear , can be lifetime lubrication
- ***SEALING EFFECT IS GOOD**
- ***INSTALLATION UNRESTRAINED :** Can be installed arbitrarily
- ***WIDE APPLICABILITY :** Applicable to any type of servo motor



PRODUCT FOCUS

GR

Series



GR Series Helical Gearmotors has reasonable structure, high universality, low temperature rise, large carrying capacity and outstanding performance. It can be combined with GF/K/S and MB series to obtain lower output speed and larger torque. They continually distinguish themselves with their high efficiency and durable gearing.

Product range

- *Power ratings from 0.180 to 160 kW
- *Ratio from 1.3 to 23,401
- *Output torques to $\leq 180,000$ N.m

Reducer

- *Efficiency = 98.5% (1-Stage) 97% (2-Stage) or 95.5% (3-Stage)
- *Finished ground or shaved gear teeth to assure minimum noise, minimum heat, and maximum mechanical efficiency
- *Anti-friction bearings for optimum load capacity and long life
- *Captured keys on input and output shafts
- *Metric or inch dimension output shaft
- *Removable inspection cover

Motor

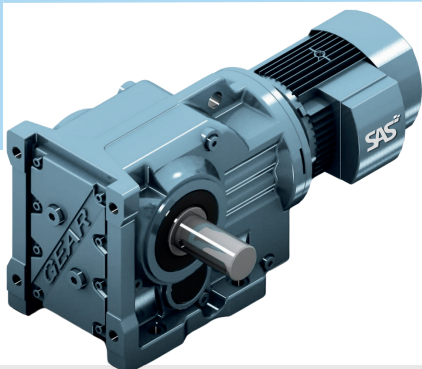
- *Inverter duty
- *Connection terminals
- *Premium Efficiency Motor IE3
- *50Hz, 60Hz, or 50/60Hz global motor

Mounting

- *B5/B14 flange with centering tenon
- *Foot/Flange for size GR09-GR89
- *Can be ordered for any mounting orientation

GK

Series



GK Series Helical-Bevel Gearmotors Uses 2-pairs for helical gears and one pair of spiral bevel gear for transmission, makes input and output right angle. Spiral bevel gear transmission featured by large superposition coefficient, high carrying capacity force, steady and reliable transmission. Gears use alloy steel cementite quenching, characterized by high hardness and sound abrasion resistance. It is multiple structural types can be combined with GR and MB series, with low output speed and large torque.

Product range

- *Power ratings from 0.18 to 200 kW
- *Ratio from 3.89 to 24,353
- *Output torques to $\leq 50,000$ N.m

Reducer

- *Efficiency = 95.5%
- *Finished ground or shaved gear teeth to assure minimum noise, minimum heat, and maximum mechanical efficiency
- *Anti-friction bearings for optimum load capacity and long life
- *Captured keys on input and output shafts
- *Metric or inch dimension output shaft
- *Removable inspection cover

Motor

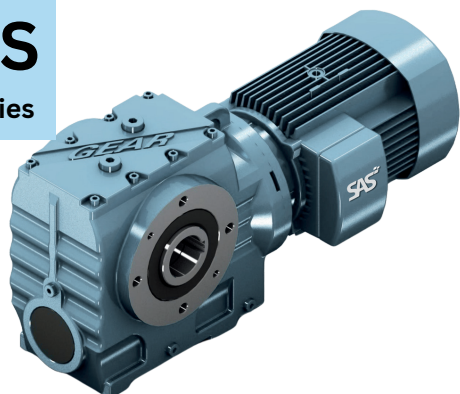
- *Inverter duty
- *Connection terminals
- *Premium Efficiency Motor IE3
- *50Hz, 60Hz, or 50/60Hz global motor

Mounting

- *Torque arm for shaft mounting
- *B14 or B5 flange with centering tenon
- *Can be ordered for any mounting orientation

GS

Series



GS Series Helical-Worm Gearmotors is different from ordinary ones for their reasonable structure, input using a pair of helical gear for deceleration to lower the rotary speed of worm, less heat, as well as easy to gain larger gear ratio. Combined with GR and MB series, they can meet customer's different requirements.

Product range

- *Power ratings from 0.180 to 160 kW
- *Ratio from 1.3 to 23,401
- *Output torques to $\leq 180,000$ N.m

Reducer

- *Efficiency = 94%, depending on ratio
- *Gear are milled, hardened and ground assure minimum noise, minimum heat, and maximum mechanical efficiency
- *Anti-friction bearings for optimum load capacity and long life
- *Captured keys on input and output shafts
- *Metric or inch dimension output shaft
- *Removable inspection cover

Motor

- *Inverter duty
- *Connection terminals
- *Premium Efficiency Motor IE3
- *50Hz, 60Hz, or 50/60Hz global motor

Mounting

- *Torque arm for shaft mounting
- *B14 or B5 flange with centering tenon
- *Foot mounting
- *Can be ordered for any mounting orientation

PRODUCT FOCUS

GF

Series



GF Series Parallel-Helical Gearmotors

is parallel-helical gear, has small volume, lightweight, large transfer torque, low consumption, high efficiency, low temperature rise, high carrying capacity force and multiple structural types and etc. It is applicable for locations of different installation conditions.

Product range

- *Power ratings from 0.180 to 160 kW
- *Ratio from 1.3 to 23,401
- *Output torques to $\leq 180,000$ N.m

Reducer

- *Efficiency = 97% (2-Stage) or 95.5% (3-Stage)
- *Finished ground or shaved gear teeth to assure minimum noise, minimum heat, and maximum mechanical efficiency (approximately 1.5% loss/stage)
- *Anti-friction bearings for optimum load capacity and long life
- *Captured keys on input and output shafts
- *Metric or inch dimension output shaft
- *Removable inspection cover

Motor

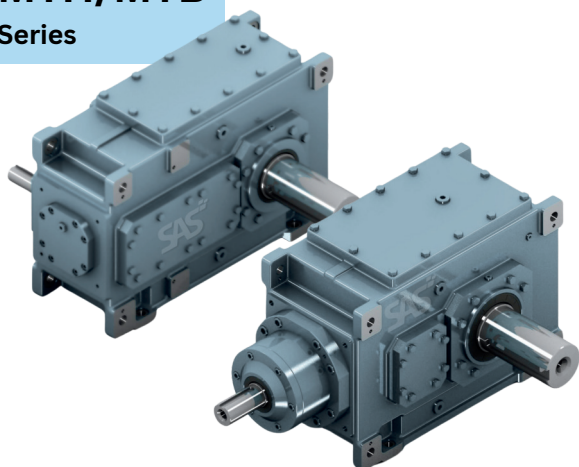
- *Inverter duty
- *Connection terminals
- *Premium Efficiency Motor IE3
- *50Hz, 60Hz, or 50/60Hz global motor

Mounting

- *Built-in torque arm for shaft mounting
- *B14 or B5 flange with centering tenon
- *Tapped rail holes for foot mounting
- *Can be ordered for any mounting orientation

MTH/MTB

Series



MTH/B SERIES GEARBOX has more sizes with a reduced variety of parts; higher reliability combined with increased power capacity, flanged output shafts facilitate assembly of gear reducer in confined spaces.

Product range

- *Helical (parallel offset) and bevel-helical (right angle)
- *Ratio from 7:1 to 112:1. Higher ratios with additional gear unit on input.
- *Output Torque : $\leq 470,000$ N.m

Standard Features

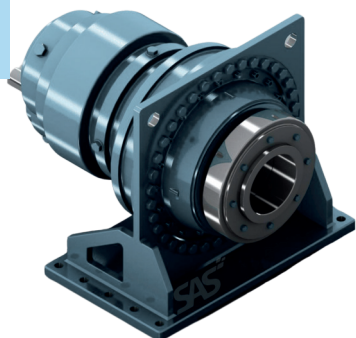
- *8 Size available - avoids unnecessary oversizing
- *High capacity anti-friction bearings for trouble-free service and extended life
- *Motor adapter (IEC or NEMA C-face) or V-belt + footed motor
- *Gray cast iron housings
- *Robust single block housing
- *Modular construction
- *Splash and pressure lubrication
- *Short delivery - parts in stock for standard units
- *Manufacturing certified ISO 9001 : 2015

Mounting

- *Foot-mounted or Shaft mounted
- *Horizontal, Vertical or upright
- *Solid shaft, Hollow shaft / Keyway, or shrink disc
- *Flange or torque arm
- *Optional Features
- *Backstops, base plate, coupling guards
- *Complete power transmission packages are available to include motors, AC drives, reducers, base plates, swingbases, couplings and torque arm
- *Multiple seal arrangement
- *Ductile iron housing
- *Drywell design

GF

Series



GP SERIES PLANETARY GEARBOX reducer use several planets gears to transfer load, thus to actualize power division and effective use of inner mesh joggle. It is featured by compact structure, small volume, lightweight, wide range of ratio, high driving efficiency and etc.

Product range

- *Helical and bevel-helical
- *Ratio from 100:1 to more than 5,000:1
- *Output Torque : $\leq 2,600,000$ N.m

Standard Features

- *High capacity anti-friction bearings for trouble-free service and extended life
- *Gray cast iron housings
- *Splash and pressure lubrication
- *Modular construction
- *Compact design
- *Short delivery - parts in stock for standard units
- *NEMA C-face adapter or V-belt motor mounting
- *International product support available through worldwide technical sales offices
- *Manufacturing certified ISO 9001: 2015

Optional Features

- *Torque arm
- *Backstops
- *Base plates
- *Coupling guards
- *Complete power transmission packages are available to include motors, AC drives, reducers, base plates, swingbases, couplings and torque arm
- *Applications
- *Low speed, high torque
- *Drying processes - construction materials industry
- *Filling processes - cement industry
- *Slow running material processing - mixers, rotary filters
- *Food industry

IEC STANDARD MOTOR

“MOTOR ENERGY SAVING EVOLUTION VALUE”

POWER MOTOR : 0.12 KW UP TO 315KW

COOLING METHOD : IC411

WORKING SYSTEM : S1

ENERGY EFFICIENCY RATING : GB18613-2012 LEVEL 3

QUALITY ASSURANCE : ISO9001

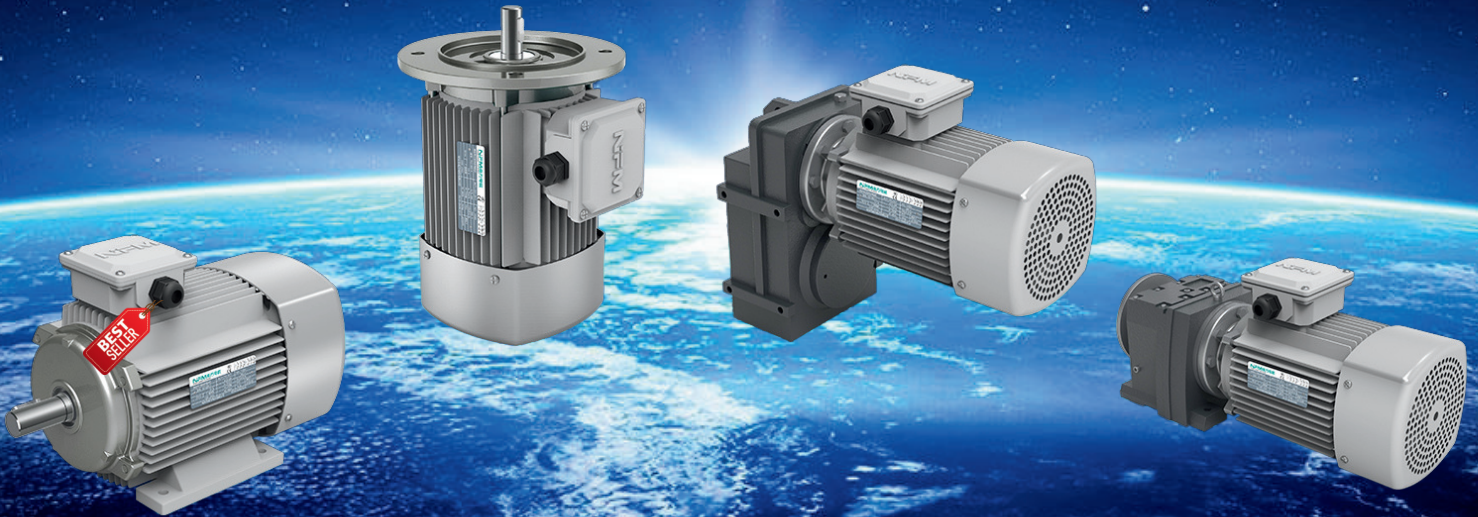
RATED VOLTAGE : 380V

RATED FREQUENCY : 50 HZ

PROTECTION LEVEL : IP55 , IP65

INSULATION CLASS : F , H

INSTALLATION : B3 , B35 , B5



IE3 - PREMIUM EFFICIENCY

IE4 - SUPER PREMIUM EFFICIENCY

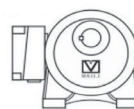
CH & CV SMALL GEAR MOTOR : NORMAL DUTY

HORIZONTAL Foot-mounted

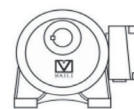
VERTICAL & HORIZONTAL Flange-mounted



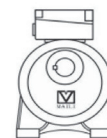
- Power motor** : 0.1 kW, 0.2 kW, 0.4 kW, 0.55 kW, 0.75 kW, 1.1 kW, 1.5 kW, 2.2 kW, 3.7 kW
- Output shaft dia** : Ø18, Ø22, Ø28, Ø32, Ø40, Ø50
- Ratio** : 1/3 1/1800
- Voltage** : 1 Phase 220VAC, 3 Phase 220VAC, 3 Phase 380VAC, 3 Phase 440VAC
- Accessory** : DC90V Brake, Brake unit with release brake, DC24V Brake



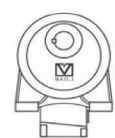
G1



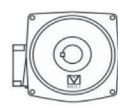
G2



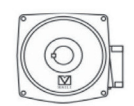
G3



G4



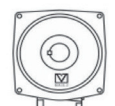
G1



G2



G3



G4

HYPOID GEAR

FIVE STRENGTHS

PERFECT SERVICE SYSTEM

HEAT PROOF & COLD PROOF

PROTECTION CLASS IP65

STABLE TECHNIQUE, HIGH QUALITY

OBTAINED CCC & CE CERTIFICATION



SERIES : H , F2 , F3 , F , H2 , G3/G4

POWER MOTOR : 15W - 3.7KW

GEAR RATIO : 1/5 UP TO 1/1600

RATE VOLTAGE : 1 PHASE 220VAC OR 3 PHASE 380VAC

STRUCTURE FROM : -HORIZONTAL

-VERTICAL

-FOOTMOUNTED/FLANGEMOUNTED

-HOLLOW SHAFT/SOLID SHAFT

BRAKE UNIT : -DC90V BRAKE WORKING WHEN POWER OFF

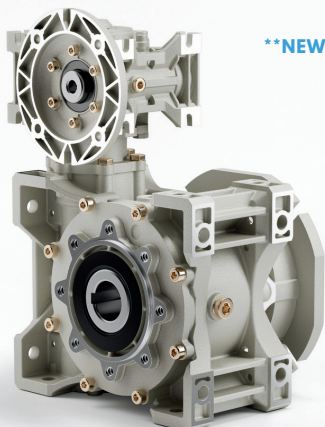
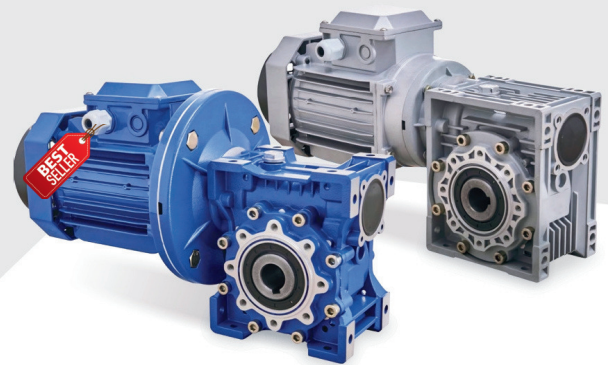
-DC24V BRAKE WORKING WHEN POWER OFF

SUPPLY

-BRAKE WITH MANUAL RELEASE



NMRV WORM GEAR REDUCER



**NEW VERSION



Structure Features

- *High quality die casting aluminium alloy housing, suitable for universal mounting.
- *Heat sink design for cooling provides great surface area
- *025 to 150, transmit power scope from 60W to 15 kW.
- *Larger speed ratio range. ratio 5:1 to 100:1
- *Hardened worm with fine grinding has the feature of higher efficiency and big output torque.
- *Low noise and stable running
- *Can adapt long term work condition in terrible environments