

UCAN TRANSMISSION ENTERPRISE



SINCE 2002

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WORM GEARBOX

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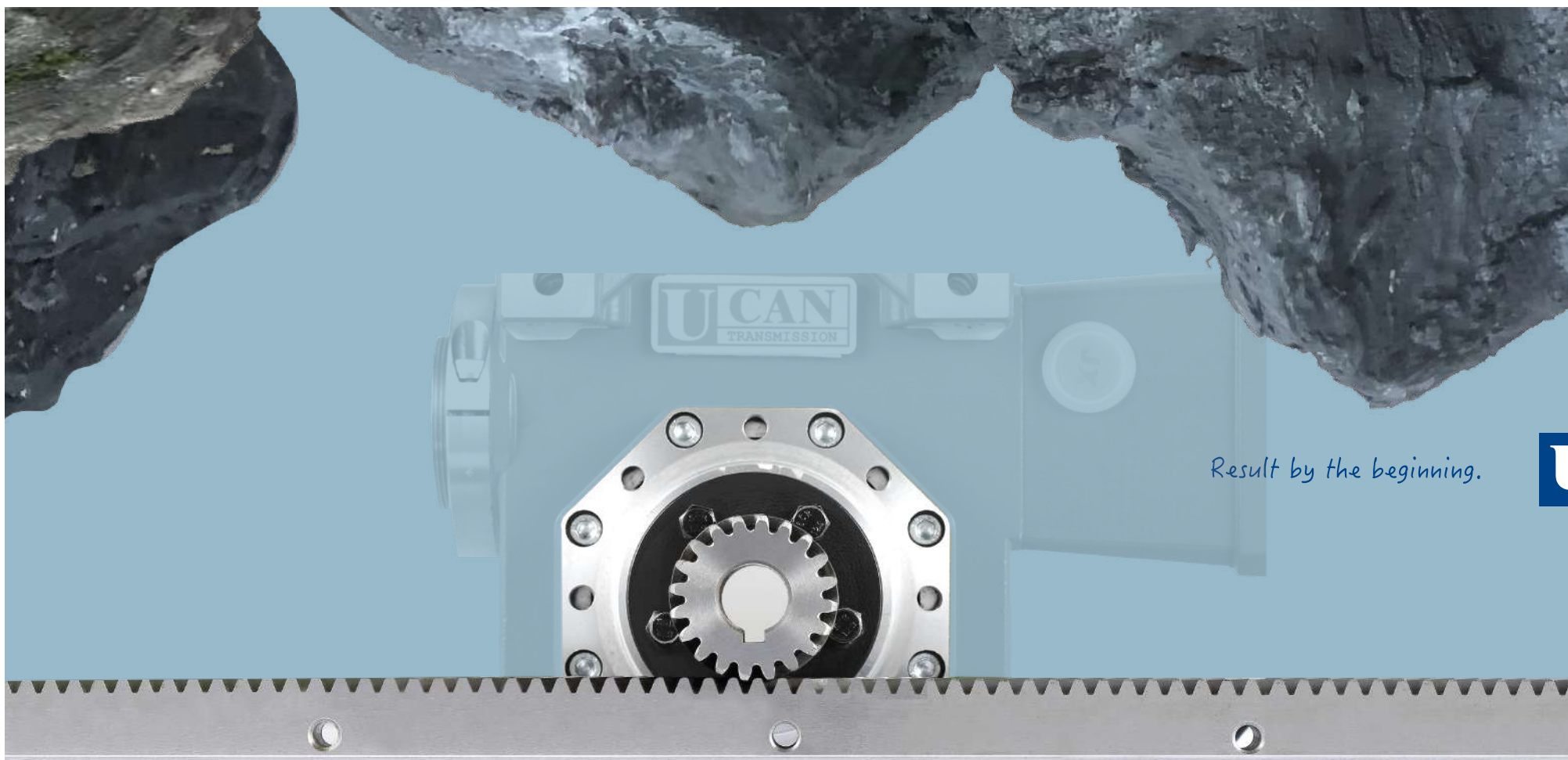
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HIGH PRECISION DUAL LEAD WORM GEARBOX

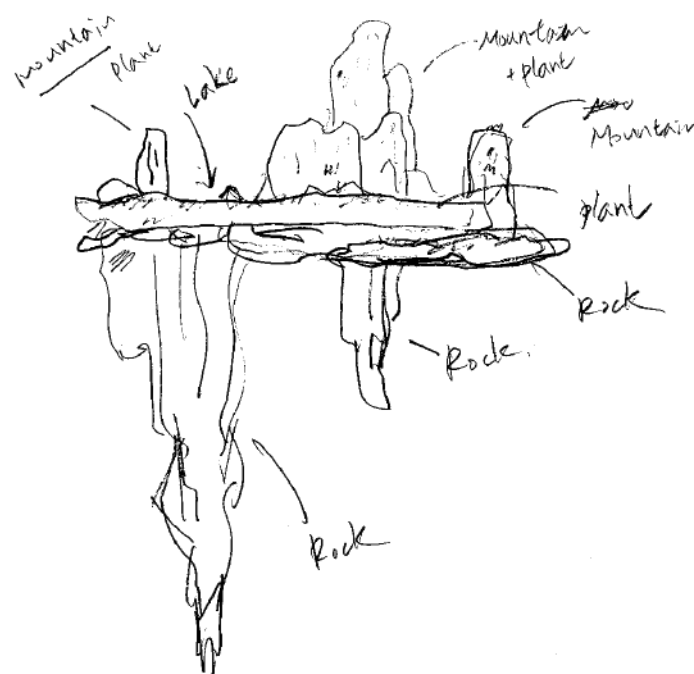
SERIES UDLB

1 Arc
Min

BACKLASH UP TO
1 ARC-MIN



As the series UDLB dual lead worm gearbox is an ideal substitute for the angle planetary gearbox, industrial automation and other related fields can drastically reduce the application cost of using the precision angle planetary gearbox. Besides, rotating the gearbox 90 degrees to install the servo system becomes a reality. And the worm input can be driven in series by a servo motor to achieve the synchronic output of multiple worm gears. This product can be used with the processing equipment of electronic, communication, and other industries.



HDLB

Sizes: 25 / 35

Parameters:

Nominal output torque : 14-36Nm($n_1=1000$)

Radial force: 1500-3800N

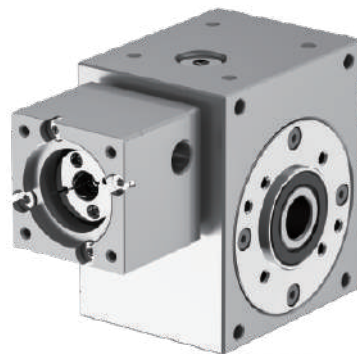
Axial force: 500-2800N

Backlash:

P0(2 arc-min)

P1(3-5 arc-min)

Protection class: IP65



UDLB

1 Arc Min

BACKLASH UP TO
1 ARC-MIN



Sizes: 45 / 50 / 55 / 63 / 75 / 90 / 110

Ratios:

5.2/7.25/10.25/14.5/19.5/30/45/60/90

Parameters:

Nominal output torque: 67-1015Nm($n_1=1000$)

Radial force: 5800-21500N

Axial force: 4000-16000N

Backlash:

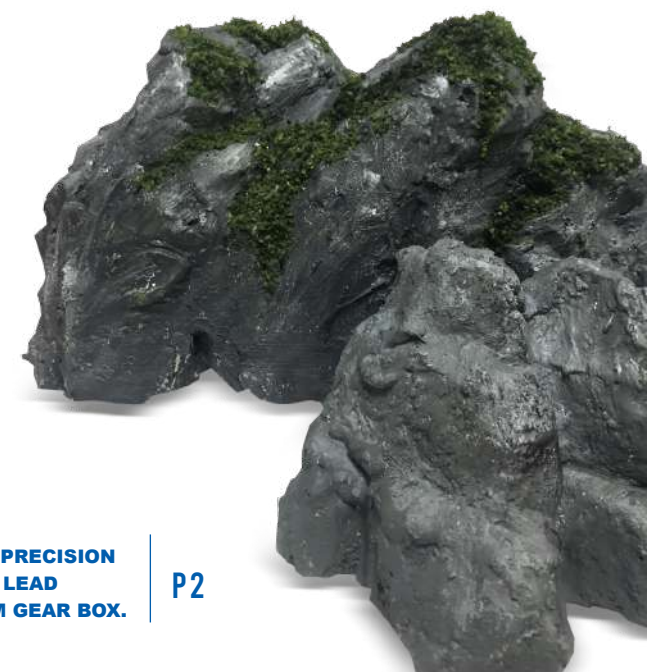
P0(1 arc-min) size 75 90 110

P0(2 arc-min) size 45 50 55 63

P1(2-4 arc-min) size 75 90 110

P1(3-5 arc-min) size 45 50 55 63

Protection class: IP65



**HIGH PRECISION
DUAL LEAD
WORM GEAR BOX.**

P2

HIGH PRECISION PLANETARY GEARBOX

SERIES UAB/UABR

HIGH PRECISION PLANETARY GEARBOX

1 Arc
Min

BACKLASH UP TO
1 ARC-MIN



High Rotational Speed



Low Noise



Strong Performance & Stable Operation

Sizes: 42 / 60 / 90 / 115 / 142 / 180 / 220

Ratios:

Stage(L1): 3/4/5/6/7/8/9/10

Stage(L2): 12/15/16/20/25/28/30/32/35/40/45/50/
60/70/80/90/100

Parameters:

Nominal output torque: 20-1500Nm

Radial force: 780-500000N

Axial force: 390-25000N

Backlash:

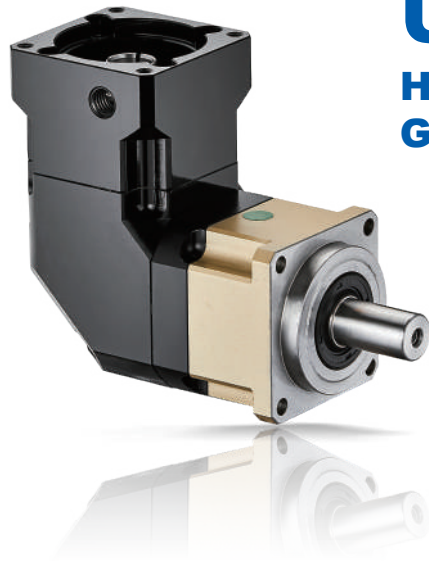
P0(\leq 1 arc-min)

P1(3-5 arc-min)

P2(5-7 arc-min)

Protection class: IP65





UABR

1 Arc Min BACKLASH UP TO 1 ARC-MIN

HIGH PRECISION PLANETARY GEARBOX

Sizes: 60 / 90 / 115 / 142 / 180 / 220

Ratios:

Stage(L1): 3/4/5/6/7/8/9/12/14/16/20

Stage(L2): 12/15/6/20/25/28/30/32/35/40/48/50/60/
64/70/80/90/100/20/40/160/200

Parameters:

Nominal output torque: 9-1500Nm

Radial force: 780-50000N

AAxial force: 390-25000N

Backlash:

P0(2-4 arc-min)

P1(4-7 arc-min)

P2(6-9 arc-min)

Protection class: IP65

U



UAR

RIGHT ANGLE REDUCER

Sizes: 42 / 60 / 90 / 120

Ratios:

Stage(L1): 2~3

Stage(L2): 6~21

Backlash:

Stage(L1): 0.5 arc-min

Stage(L2): 2 arc-min

Parameters:

Allowable Max Torque: 15-160Nm

Breaking Torque: 40-450Nm

Axial force: 390-25000N

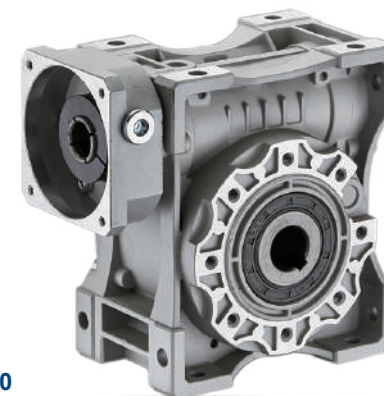


WORM GEAR REDUCER

NMRV



PMRV



NMRV Sizes 025 / 030 / 040 / 050 / 063 / 075 / 090 / 105 / 110 / 130 / 150

PMRVpower Sizes 063 / 075 / 090 / 110

Characteristics

- Available versions: fitted for motor coupling, with input shaft, with torque limiter
Power up to 18,5 kW
 - Cases up to 110 in die-cast aluminium alloy and over 130 in G200 grey cast iron
Ratios between 5 and 100
 - Max torque 1.550 Nm and admissible radial loads max 18.000 N
 - 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)
 - Size 025 and over are painted with RAL 5010 blue epoxy-polyester powder
 - Worm gear reducers are available with different combinations: NMRV+NMRV, PMRV+NMRV, NRV+NMRV,
 - Options: protection cover, torque arm, output flange, output shaft kit, torque limiter, viton oil seals, low/high temperature and food grade oil, filling/drain/breather/level plug,

SW / ISW



Sizes 030 / 040 / 050 / 063 / 075 / 090 / 105

Characteristics

- Available versions: SW - fitted for motor coupling, ISW - with input shaft, SWL - with torque limiter
Power up to 7,5 kW
 - Aluminium units are supplied complete with synthetic oil which allows universal position mounting, with no need to modify lubricant quantity. Moreover units without plugs reduce the risk of oil oxidation and contamination.
 - Reduction ratios between 5 and 100
 - Max torque 630 Nm and admissible radial loads max 12.000 N
 - Cases in die-cast aluminium alloy
-
- Worm wheel: bronze Cu Sn12 Ni2 (UNI7013-10)
Ground worm profile ZI (UNI4760)
Excellent mechanical strength while being especially lightweight
Painted with RAL 5010 blue epoxy-polyester powder
 - Worm gear reducers are available with different combinations: SW+SW and SW+ISW
 - Options: torque arm, feet mounting, output flange, output shaft kit, cover, double extension high speed shaft



STAINLESS STEEL REDUCER

USRV

The installation size and selection of the reducer are exactly the same as the NMRV reducer.

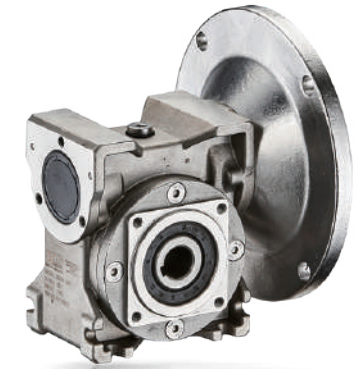
Only the box flange is precision cast with 304, and the wheel core is also 304.

Worm gear material is 12-2 tin bronze, fully synthetic worm gear oil.

The reducer surface is electrolytically polished.

The advantages are great corrosion resistant, easy to wash, multiple speed ratios, large torque, suitable for multi-directional installation.

The current models are 40, 50, 63, 75, and 90



USVF

The box body is designed according to the VF worm gear reducer. 304 precisely produced, compact structure, wheel core made of 304 material, worm gear 12-2 tin bronze.

Fully synthetic worm gear oil, the surface of the reducer is electrolytically polished, The advantages are corrosion resistant, easy to clean, and has various speed ratios.

There are currently three models: 40, 50, and 63.



USGM

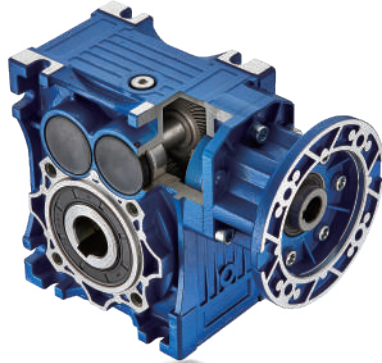
The reducer gear box is precisely produced with 304, the worm gear is 12-2 tin bronze, the wheel core is also 304, and it is fully synthetic worm gear oil.

All six sides of the box are processed, with beautiful appearance, easy cleaning and corrosion resistance.

There are six models: 30, 40, 50, 63, 75, 90, etc.



HELICAL HYPOID GEARBOX



HELICAL WORM GEARBOX



UHG

Feature

- The first-stage transmission adopts the hypoid gear, which has the high transmission efficiency.
- The output torque is large, and the load capacity is high.
- Smooth transmission and low noise.
- All the gears are made of high-grade alloy steel with a long lifespan. The external dimensions are almost the same as the NMRV series.
- The installation method is the same as NMRV series.
- There is no difference in the diameter of the hollow output shaft compared to the standard NMRV series reducer.
- It can use all of the accessories from NMRV series.

Parameters:

Nominal output torque: 125-299Nm
Radial force: 3325-13500N
Axial force: 665-2700N
Protection class: IP65

Ratios:

75/10/25/15/20/25/30/40/50/60/80/100/125/150/
200/250/300

Sizes: 50 / 63 / 75

UWG

The first-stage transmission adopts the worm gear and worm. It has a large ratio (total ratio can be up to 4000). Compared with the NMRV series, the UWG series has a higher ratio, output torque, and efficiency. The external dimensions are almost the same as the NMRV series. The installation method is similar to the NMRV series. There is no difference in the diameter of the hollow output shaft compared to the standard NMRV series reducer. It can use all of the accessories from NMRV series.

Parameters:

Nominal output torque: 17-2120Nm ($n_1=500$)
Radial force: 1350-18000N
Axial force: 270-36000N
Protection class: IP65

Ratios:

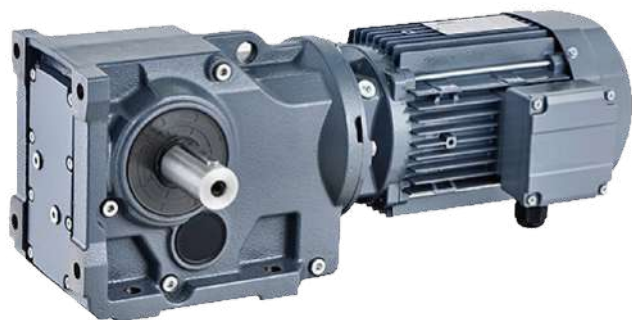
5/7.5/10/15/20/25/30/40/50/60/80/100

Sizes: 50 / 63 / 75 / 90 / 110 / 130

U



GEAR REDUCER



TK GEAR REDUCER

Specification:

Including 12 types gear unit, Customer can choose them according to the request.

Performance:

Service power range: 0.12 - 200kW

Max.output torque: 50000Nm

Ratio range: 3.98 - 32625



TR GEAR REDUCER

Specification:

Including 12 types gear unit, has 1 stage, 2 stages and 3 stages. Customer can choose them according to the request.

Performance:

Service power range: 0.12 - 160kW

Max.output torque: 18000Nm

Ratio range: 1.3 - 27001



TF GEAR REDUCER

Specification:

Including 11 types gear unit, has 2 stages and 3 stages. Customer can choose them according to the request.

Performance:

Service power range: 0.12 - 200kW
Max.output torque: 18000Nm
Ratio range: 3.77 - 31434



TS GEAR REDUCER

Specification:

Including 9 types gear unit, Customer can choose them according to the request.

Performance:

Service power range: 0.12kw - 22kw
Max.output torque: 4000Nm
Ratio range: 6.80 - 33818

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EC ECI Motors

High efficiency, average value can be over IE5 norms.

FEATURES

- High efficiency, average value can be over IE5 norms.
- Very high efficiency in wide speed up to 3600rpm and power range.
- Compact and light design with high uniformity in appearance design with other UCAN products.
- Mounting dimensions according to the IEC norm, easy to switch from old components to UCAN EC motors.
- Various and flexible mounting types suitable for different applications.
- Customized design is possible for special applications.
- Most matched drivers (controllers) based on the same development, one-stop solution for economy.
- Match almost all brands of commercial drivers (controllers).

APPLICATIONS

- Various of air conditionings and ventilation appliances.
- Pumps.
- Air compressors.
- Other industrial machines.



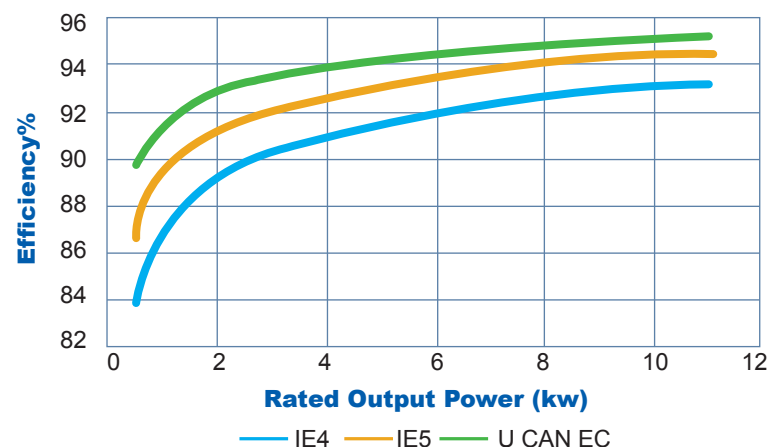
EC MOTOR drivers
(controllers)



ECI MOTOR
with drivers



Efficiency comparison at 1500 rpm





IE1/IE3/IE4 MOTOR

MS Series Aluminum Housing Three Phase Induction Motor

Motor Housing: Aluminum

Output Power: 0.06 kW – 18.5 kW

Frame Size: IEC 56-160

Poles: 2, 4, 6, 8

Voltage: 220/380V, 380/660V, 230/400V, 400/690V

(Customized available)

Frequency: 50 & 60 Hz

Insulation Class: IP 55

Efficiency: IE 、 IE3 、 IE4

U

YE Series Cast Iron Three Phase Induction Motor

Frame Size: IEC 80 – 355

Poles: 2, 4, 6, 8

Voltage: 220/380V, 380/660V, 230/400V, 400/690V (Customized available)

Frequency: 50 & 60 Hz

Insulation Class: IP 55

Efficiency : IE3 、 IE4



Result by the beginning.

HIGH TEMPERATURE SMOKE EXTRACTION MOTORS

Applications

The motors are suitable to be used in the area where people get-together, such as shopping mall, factory, warehouse, parking-area, railway station and the likes. They are high-temperature resistant, able to extract smoke and abstract heat quickly, delay the spread of fire, to assure free access to emergency entrance.

Specifications:

- Three phase, multi-voltage, IP55, TEFC
- Output: From 0.75 to 355kW
Frame size: From 80 to 355
- Voltage: 220-240/380-415V (100L and below),
380-415/660V-720V (112 and up)
- Insulation class: H
- Working duty: S1
- Squirrel-cage rotor / Aluminum casting
- Cooling type: TEFC or TEAO
- 2 meter leading wire (Without terminal box)
- Stainless steel name-plate
- Working with ventilator in normal condition.
- In special condition, they can run for 2 hours in Max.450°C of ambient temperature according to the standard.



Stainless-steel Housing NEMA Motors

- 1/4HP thru 15HP
- 56 thru 215T

U

FEATURES:

Service factor: 1.25

Protection class: IP69K

Ball bearings with food grade grease

Stainless-steel Housing

Continuous Duty 40: Ambient

TEFC & TENV

Application:

The shaft, housing, end-shield and bolts & nuts of the motor are using stainless-steel. It has features of nice appearance, anti-corrosion, and stainless, and can be widely use in the industry of food processing and chemical.

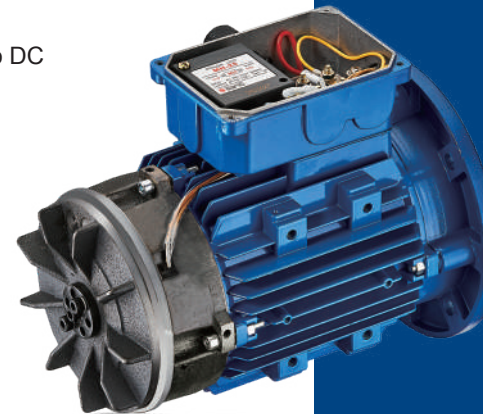


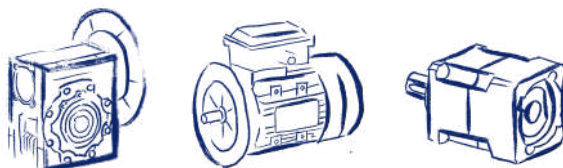
BRAKE MOTOR

BM SERIES

FEATURES:

- Frame number 56~132 (0.09KW~11KW), Employs DC magnetic brake coil.
- The brake lining is manufactured from high quality material, that features high friction-coefficient and long service life. Adjustment is made after 1,000,000 times of braking motions.
- Capable of resisting high temperature. It permits full load operation at 75°C.
- The brake motor USES AC power source, which is converted through a rectifier then supplied do DC braking coil. This results in low noise and low impact.
- Braking function is effective for clockwise and counter-clockwise rotation.
- Meet IEC international specifications. Suitable for 50/60 Hz power source with various voltages.
- F-class insulation. Resist high temperature up to 155°C.
- IP54 protection class.





Result by the beginning.



UCAN TRANSMISSION ENTERPRISE

No. 19, Zhenxing 3rd Rd., Daya Dist., Taichung City, Taiwan (R.O.C.)

TEL+886-4-2567-9901

FAX+886-4-2567-9615

E-MAIL:youcan.tw@msa.hinet.net

www.you-can.com.tw

