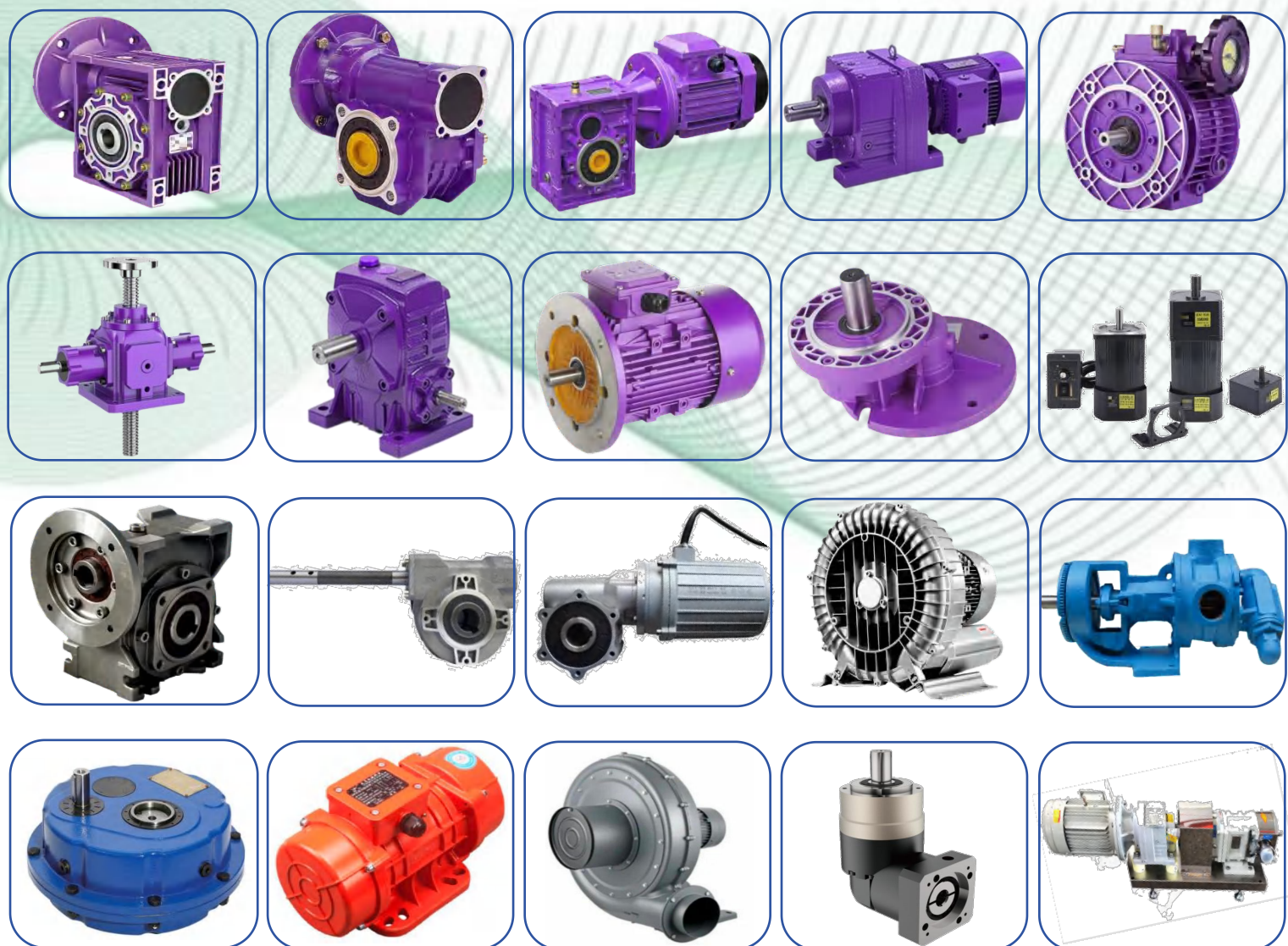


# Hangzhou GT Rail Traffic Equipment Co., Ltd

## IVH Drive Catalogue



## Company Profile

### ABOUT US:

Hangzhou GT Rail Traffic Equipment Co., Ltd was officially established on 2011 in Hangzhou. Our brands include GT RAIL and IVH DRIVE. GT RAIL focuses on the rail transit industry, while IVH DRIVE focuses on the transmission industry.

Currently, IVH DRIVE mainly sells reducers, motors, vortex blowers, and gear pumps in the international market. And even providing customers with a complete set of equipment transmission solutions, such as drive system, transmission system, and control system. IVH DRIVE is always focused on quality control, process, materials, design, and other aspects.

IVH DRIVE is steadily advancing in the fiercely competitive market, striving to provide customers with high-quality products and thoughtful services.

2011

SINCE

25+

EXPORT COUNTRIES

40+

PRODUCT COVERAGE

8

FACTORIES DISTRIBUTION



## **OUR HISTORY:**

**2011:** GT Rail was founded, launching the Hangzhou Hanggang Metro's project, a key step into the rail transit industry, laying its initial foundation.

**2012:** GT Rail started the Hangzhou Metro's project, expanding its local footprint and deepening engagement in the city's rail transit development.

**2013:** GT Rail took on the Ningbo Metro's project, extending its domestic reach beyond Hangzhou and broadening its market presence.

**2014:** GT Rail joined the Suzhou Metro's project, strengthening its position in the Yangtze River Delta's thriving rail transit market.

**2015:** GT Rail initiated the Nanjing Metro's project; with sales hitting \$1.5 million, it marked a notable business growth milestone.

**2016:** GT Rail entered the Shanghai Metro's project, a major market that enhanced its industry influence and reputation.

**2017:** GT Rail undertook the Nanning Metro's project, expanding to southern China and diversifying its domestic project portfolio.

**2018:** Domestic rail transit sales surpassed \$3 million, reflecting strong growth and increasing competitiveness in the local market.

**2019:** GT Rail ventured into the global market, focusing on exporting hardware and machinery, especially for reducers, motors, etc. opening new growth avenues.

**2020:** GT Rail expanded internationally to India, Ukraine, Russia, Brazil, etc., widening its global customer base significantly.

**2021:** Domestic rail transit sales broke through \$4 million, showing sustained growth and solid market performance at home.

**2022:** International market sales reached \$1 million, a key achievement that validated the success of its global expansion strategy.

**2023:** GT Rail entered markets like Vietnam, Turkey, Portugal, Germany, further diversifying its international presence.

**2024:** International market sales exceeded \$2 million, highlighting rapid growth and rising influence in global markets.



**PRODUCTION EQUIPMENT:**







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1、NMRV/VF Aluminium Worm Gear Reducer



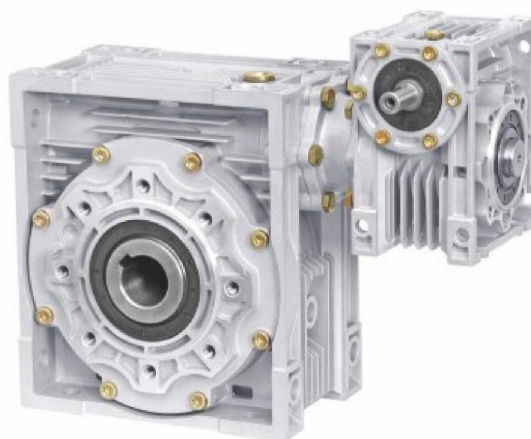
**NMRV025~150**



**NRV030~150**



**NMRV-NMRV...**



**NRV-NMRV...**

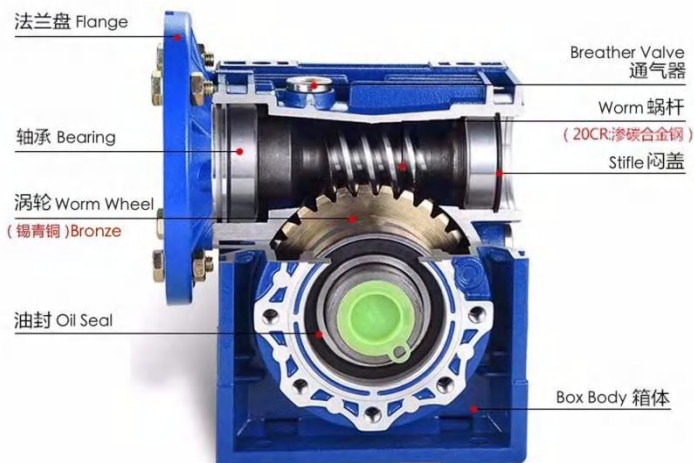


**UDL B3**



**UDL-NMRV...**

## 1、NMRV/VF Aluminium Worm Gear Reducer



### 结构特点 STRUCTURE FEATURES

- 1、优质铝合金铸造，重量轻，不生锈；
  - 2、输出扭矩大；
  - 3、传动平稳，噪音小，适合在恶劣环境中长期连续工作；
  - 4、散热效率高；
  - 5、美观耐用，体积小；
  - 6、可适应全方位安装。
- 1、 Made of high-quality aluminum alloy, light in weight and non-rusting.
  - 2、 Large in output torque.
  - 3、 Smooth in running and low in noise, can work long time in dreadful conditions.
  - 4、 High in radiating efficiency.
  - 5、 Good-looking in appearance, durable in service life and small in volume.
  - 6、 Suitable for omnibearing installation.

### 主要材料 MAIN MATERIALS

- 1、外壳：铝合金（机座：025-090），铸铁（机座：110-150）；
  - 2、蜗杆：20CrMnTi，渗碳淬火，齿面硬度56-62HRC，精磨后保持渗碳层厚度0.3-0.5mm；
  - 3、蜗轮：耐磨锡青铜。
- 1、 Housing: die-cast aluminum alloy (frame size: 025 to 090); cast iron (frame size: 110 to 150).
  - 2、 Worm: 20CrMnTi, carbonize heat treatment make the hardness of gear's surface up to 56~62 HRC, retain carburization layer's thickness between 0.3 and 0.5mm after precise grinding.
  - 3、 Worm wheel: wearable stannum bronze alloy.

### 表面涂装 SURFACE PAINTING

- 铝合金外壳：
- 1、先抛丸处理，再经特种防腐处理，保持银白金属感，并耐汽油，二甲苯等有机溶剂的腐蚀；
  - 2、磷化处理后，再喷RAL5010蓝色或银白色涂料。

- 铸铁外壳：
- 先涂红色防锈漆，后喷涂RAL5010A蓝色或银白色涂料。

- Aluminum alloy housing:
- 1、 Shot blasting and special antiseptic treatment on the aluminum alloy surface.
  - 2、 After phosphating, paint with RAL5010 blue or silvery white paint.

- Cast iron housing:
- First paint with red antirust paint, then paint with RAL5010 blue or silvery white paint.



## 1、NMRV/VF Aluminium Worm Gear Reducer

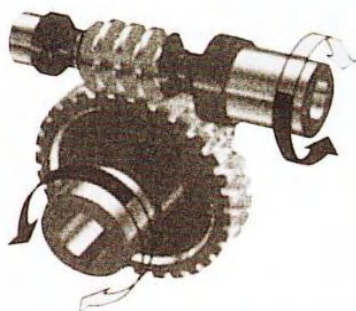
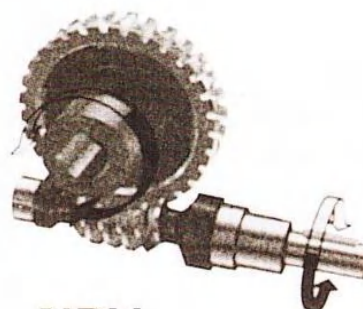
**NMRV 063-40-E-FA1-AS1 71B5 B3-7124或/or0.37-4/1**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

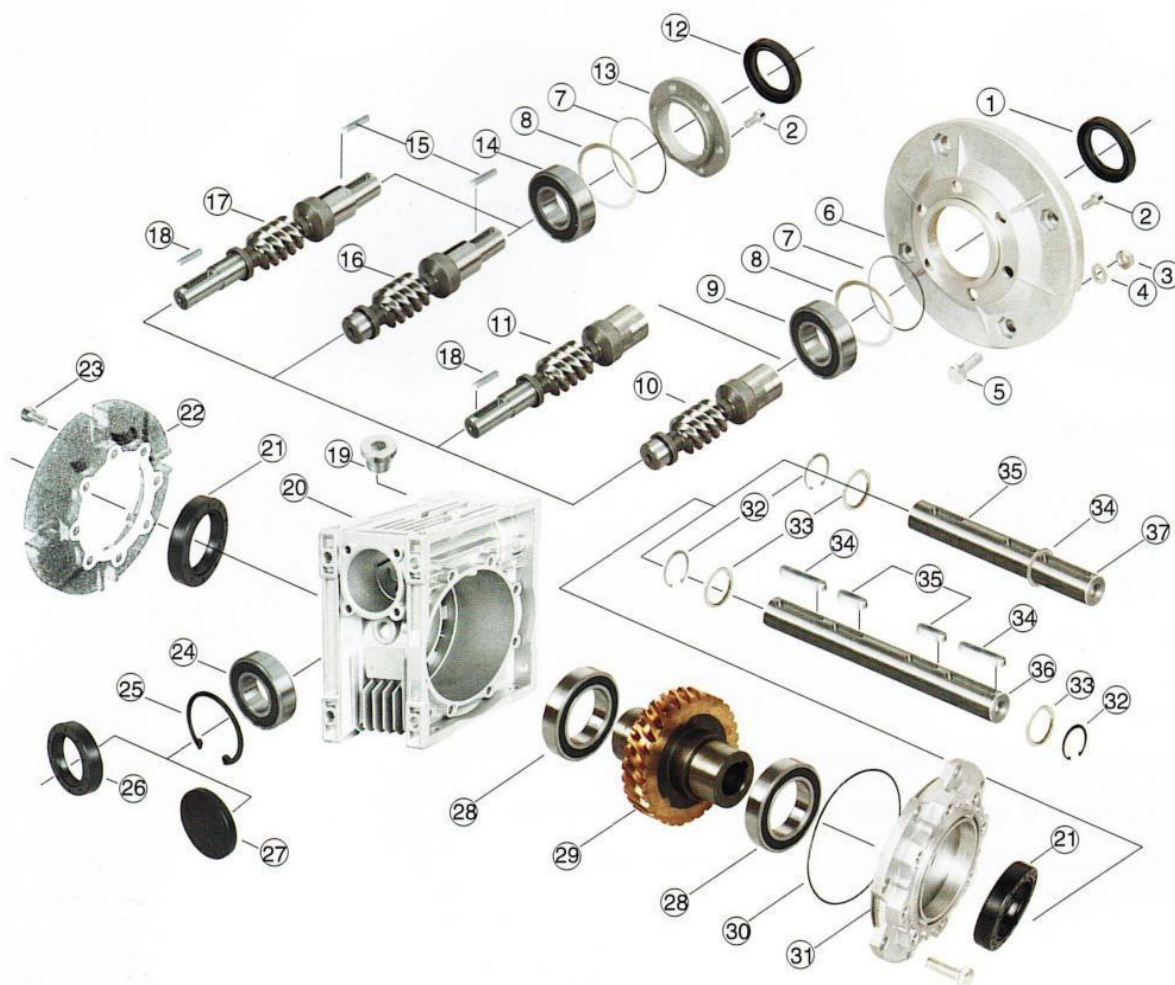
NO	说 明	Comments
1	型号代码 1).NMRV:孔输入带输入法兰 2).NRV:轴输入不带输入法兰	Model code 1).NMRV:Hole input with flange 2).NRV:Shaft input without flange
2	蜗轮蜗杆减速器中心距 ( 规格 )	Central distance of worm gear units(spec)
3	减速器速比 ( I=7.5;10;15;20;25;30;40;50;60;80;100 )	Speed ratio of reducer ( I=7.5;10;15;20;25;30;40;50;60;80;100 )
4	1 ).无代号表示不带蜗杆同向输出轴 2 ).E: 带蜗杆同向输出轴	1 ).No mark means single extension worm shaft 2 ).E: Double extension worm shaft
5	1 ).无代号表示不带输出法兰 2 ).FA,FB,FC,FD,FE(1/2):输出法兰代号和位置	1 ).No mark means without output flange 2 ).FA,FB,FC,FD,FE(1/2):output flange and position
6	1 ).无代号表示孔输出 2 ).AS ( 1/2 ) : 单向输出轴和位置 3 ).AB: 双向输出轴	1 ).No mark means hole output 2 ).AS ( 1/2 ) : Single output shaft and position 3 ).AB: Double output shaft
7	输入法兰规格型式 ( 不带电机时 )	Normalized form of input flange(without motor)
8	安装方位代号	Installation position code
9	1 ).无代号表示不带电机 2 ).电机型号或功率、极数	1 ).No mark means without motor 2 ).Model motors (poles of power)
10	电机接线盒位置, 默认位置1可以不写	Position diagram for motor terminal box default position1 can be no mention

蜗杆 蜗轮旋转方向:

## DIRECTION OF ROTATION

**NMRV****NRV**

1、NMRV/VF Aluminium Worm Gear Reducer



- |             |                                   |          |                     |
|-------------|-----------------------------------|----------|---------------------|
| 1、油封        | Oil seal                          | 19、油塞    | Oil plug            |
| 2、内六角螺钉     | Inner hex screw                   | 20、箱体    | Casing              |
| 3、螺母        | Nut                               | 21、油封    | Oil seal            |
| 4、弹性垫圈      | Spring washer                     | 22、输出法兰  | Output flange       |
| 5、六角头螺栓     | Hex screw                         | 23、内六角螺钉 | Inner hex screw     |
| 6、输入法兰      | Input flange                      | 24、轴承    | Bearing             |
| 7、O形圈       | O-Ring                            | 25、孔用挡圈  | Hole-circlip        |
| 8、调整垫片      | Adjust spacer                     | 26、油封    | Oil seal            |
| 9、轴承        | Bearing                           | 27、盖子    | Cover               |
| 10、孔输入蜗杆    | Hole input worm                   | 28、轴承    | Bearing             |
| 11、孔输入轴输出蜗杆 | Hole input and shaft output worm  | 29、蜗轮    | Worm wheel          |
| 12、油封       | Oil seal                          | 30、O形圈   | O-Ring              |
| 13、输入端盖     | Input cover                       | 31、输出端盖  | Output cover        |
| 14、轴承       | Bearing                           | 32、轴用挡圈  | Shaft-circlip       |
| 15、平键       | Key                               | 33、垫片    | Spacer              |
| 16、轴输入蜗杆    | Shaft input worm                  | 34、平键    | Key                 |
| 17、轴输入轴输出蜗杆 | Shaft input and shaft output worm | 35、平键    | Key                 |
| 18、平键       | Key                               | 36、双向输出轴 | Double output shaft |
|             |                                   | 37、单向输出轴 | Single output shaft |



## 1、NMRV/VF Aluminium Worm Gear Reducer



## VF 蜗轮减速器型号说明 WORM GEAR UNITS MODEL ILLUMINATE


**VF**   **30**   **F**   **-**   **15**   **-**   **E**   **SS1**   **P 71B5**   **B3**  
 ①   ②   ③   ④   ⑤   ⑥   ⑦   ⑧

No	说 明	Comments
1	蜗轮减速器代号	Code of worm gear units
2	蜗轮减速器中心距(规矩)	Central distance of worm gear units (spec)
3	结构型式 <b>1).A:</b> 底脚安装, 输入轴置上 <b>2).N:</b> 底脚安装, 输入轴置下 <b>3).V:</b> 底脚安装, 蜗杆竖直 <b>4).F(1/2):</b> 标准输出法兰 <b>5).FA(1/2):</b> 加长输出法兰 <b>6).P:</b> 端盖用于轴装式	Central distance of worm gear units (spec) <b>1).A:</b> Foot mounted overdriven <b>2).N:</b> Foot mounted underdriven <b>3).V:</b> Foot mounted wormshaft vertical <b>4).F(1/2):</b> Standard output flange <b>5).FA(1/2):</b> Extended output flange <b>6).P:</b> Side cover for shaft mounting

## 1、NMRV/VF Aluminium Worm Gear Reducer

4	减速器速比…… (i=7;10;14;……80;100)	Speed ratio of reducer (i=7;10;14;……80;100)
5	<b>1).</b> 无代号表示不带蜗杆同向输出轴 <b>2).</b> <b>E</b> : 带蜗杆同向输出轴	<b>1).</b> No mark means single extension worm shaft <b>2).</b> <b>E</b> : Double extension worm shaft
6	<b>1).</b> 无代号表示孔输出 <b>2).</b> <b>SS(1/2)</b> : 单向输出轴和位置 <b>3).</b> <b>DS</b> : 双向输出轴	<b>1).</b> No mark means hole output <b>2).</b> <b>SS(1/2)</b> : Single output shaft and position <b>3).</b> <b>DS</b> : Double output shaft
7	<b>1).</b> <b>IEC</b> 输入法兰 <b>2).</b> <b>HS</b> : 轴输入	<b>1).</b> <b>IEC</b> Output flange <b>2).</b> <b>HS</b> : Shaft input
8	安装方位代号	Installation position code

## VF/VF 双涡轮减速器型号说明 COMBINATION WORM GEAR UNITS MODEL ILLUMINATE

**VF**    **30/40**    **F**    **-**    **15**    **-**    **E**    **SS1**    **P 71B5**    **CW1**  


No	说 明	Comments
1	蜗轮减速器代号	Code of worm gear units
2	蜗轮减速器中心距(规矩)	Central distance of worm gear units (spec)
3	结构型式 <b>1).</b> <b>A</b> : 底脚安装, 输入轴置上 <b>4).</b> <b>F(1/2)</b> : 标准输出法兰 <b>5).</b> <b>FA(1/2)</b> : 加长输出法兰 <b>6).</b> <b>P</b> : 端盖用于轴装式	Central distance of worm gear units (spec) <b>1).</b> <b>A</b> :Foot mounted overdriven <b>4).</b> <b>F(1/2)</b> :Standard output flange <b>5).</b> <b>FA(1/2)</b> :Extended output flange <b>6).</b> <b>P</b> :Side cover for shaft mounting
4	减速器速比…… (i=240;245;315;……)	Speed ratio of reducer (i=240;245;315;……)
5	<b>1).</b> 无代号表示不带蜗杆同向输出轴 <b>2).</b> <b>E</b> : 带蜗杆同向输出轴	<b>1).</b> No mark means single extension worm shaft <b>2).</b> <b>E</b> : Double extension worm shaft
6	<b>1).</b> 无代号表示孔输出 <b>2).</b> <b>SS(1/2)</b> : 单向输出轴和位置 <b>3).</b> <b>DS</b> : 双向输出轴	<b>1).</b> No mark means hole output <b>2).</b> <b>SS(1/2)</b> : Single output shaft and position <b>3).</b> <b>DS</b> : Double output shaft
7	<b>1).</b> <b>IEC</b> 输入法兰 <b>2).</b> <b>HS</b> : 轴输入	<b>1).</b> <b>IEC</b> Output flange <b>2).</b> <b>HS</b> : Shaft input
8	安装方位代号	Installation position code

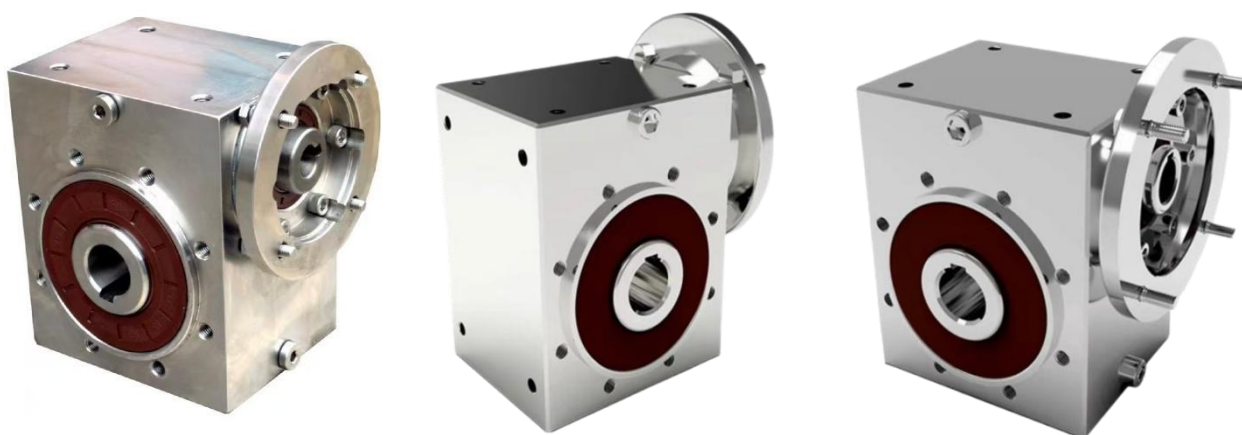


## 2、NMRV/VF Stainless Steel Worm Gear Reducer

### SSRV WORM GEAR REDUCER



### GGSS WORM GEAR REDUCER

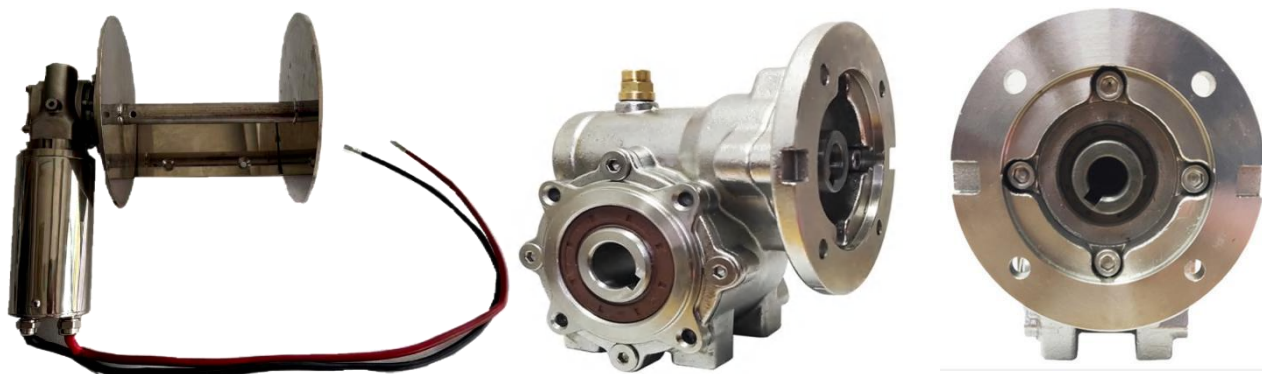


### SSVF WORM GEAR REDUCER



2、NMRV/VF Stainless Steel Worm Gear Reducer

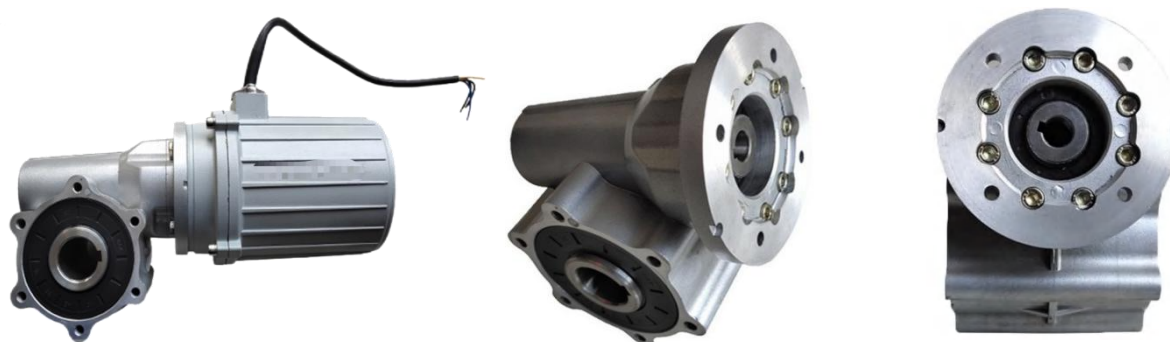
JPVF WORM GEAR REDUCER



SXVF WORM GEAR REDUCER



CWVF WORM GEAR REDUCER





### 3、Hyperbolic Gear Reducer



#### 产品概述 / Summarize

KRV系列高效型准双曲面齿轮减速机是我公司新一代实用性产品，融合了国内外先进技术，在保证安装尺寸与NMRV系列蜗轮蜗杆减速机兼容的前提下，通过借鉴SEW齿轮减速机结构采用全齿轮副传动，提高了传动效率，解决了当前蜗轮蜗杆减速机传动效率低，使用寿命短等问题，在工业发展中更起到了节能降耗，绿色环保的作用。

KRV series high efficiency hypoid gearbox is a new generation of product developed by our company. Fuses the advanced technology both at home and abroad. The mounting dimension of KRV the same with NMRV Series worm gearbox. Adopt gear transmission used for reference SEW helical gearbox structure to improve transmission efficiency, solved NMRV worm gearbox transmission efficiency low, service life short and etc. questions.

In industrial developing KRV the role of saving energy and reducing consumption, green environmental protection.

#### 结构特点 / Products characteristics

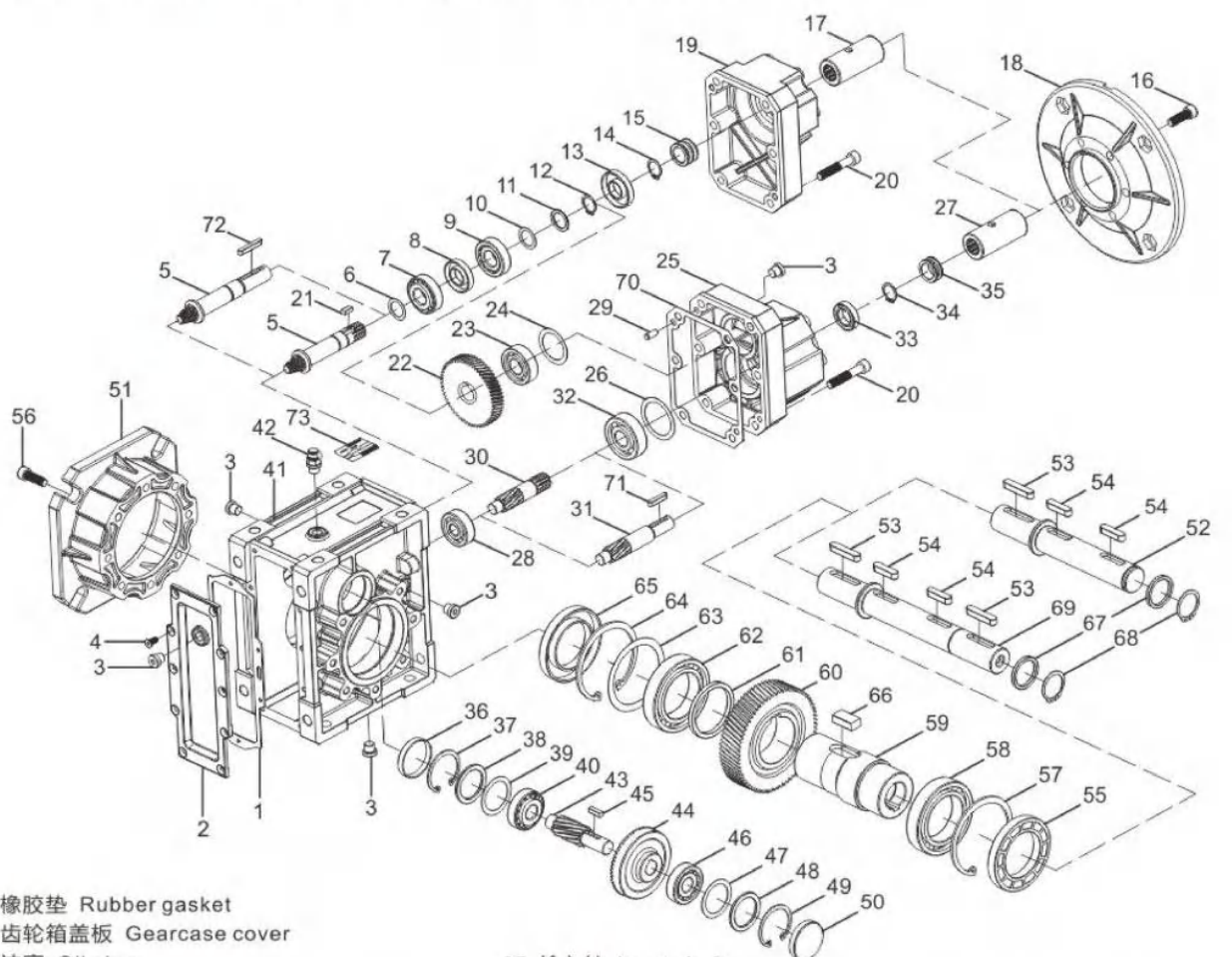
1. 采用准双曲面齿轮传动，传动比大；
2. 输出扭矩大，传动效率高，节能环保；
3. 优质铝合金铸造，重量轻，不生锈；
4. 传动平稳，噪音小，适合在恶劣环境中长期连续工作；
5. 美观耐用，体积小；
6. 可适应全方位安装，应用广泛，使用方便；
7. KRV系列减速机安装尺寸与NMRV系列蜗轮蜗杆减速机完全兼容(KRV050与NMRV050部分尺寸不同)；
8. 模块化组合，可多种形式组合，满足各种传动条件的需求。

1. Driven by hypoid gear, has big ratios
2. Large in output torque, high efficiency energy saving and environmental protection
3. Made of high-quality aluminum alloy, light in weight and non-rusting.
4. Smooth in running and low in noise, can work long time in dreadful conditions.
5. Good-looking in appearance, durable in service life and small in volume,
6. Suitable for all round installation, wide application and easy of use.
7. The mounting dimension of KRV series are compatible with NMRV series worm gear unit(A part of NMRV050 dimensions are different from KRV050)
8. Modular and multi-structure can meet the demands of various conditions.

### 3、Hyperbolic Gear Reducer

#### 准双曲面零件爆炸视图及名称

Explosion view and name of quasi hyperbolic surface parts



1. 橡胶垫 Rubber gasket
2. 齿轮箱盖板 Gearcase cover
3. 油塞 Oil plug
4. 内六角沉头螺钉 Hexagon sunk screw
5. 主动齿轮轴 Pinion shaft
6. 调整垫片 Shim ring
7. 轴承 Bearing
8. 油封 Oil seal
9. 轴承 Bearing
10. 调整垫片 Shim ring
11. 垫圈 Washer
12. 轴用挡圈 Shaft-circlip
13. 油封 Oil seal
14. 轴用挡圈 Shaft-Circlip
15. 橡胶套 Rubber boot
16. 内六角螺钉 Inner hex screw
17. 输入轴 Input shaft
18. 输入法兰 Input flange
19. 两级输入箱盖 2 stage input box cover
20. 内六角螺钉 Inner hex screw
21. 键 Key
22. 从动齿轮 Gear
23. 轴承 Bearing
24. 调整垫片 Shim ring
25. 三级输入箱盖 3 stage input box cover
26. 调整垫片 Shim ring

27. 输入轴 Input shaft
28. 轴承 Bearing
29. 圆柱销 Stifte
30. 主动齿轮 Pinion
31. 主动齿轮轴 Pinion shaft
32. 轴承 Bearing
33. 油封 Oil sea
34. 轴用挡圈 Shaft-circlip
35. 橡胶套 Rubber boot
36. 油封盖 Closing cap
37. 孔用挡圈 Hole-circlip
38. 垫圈 Washer
39. 调整垫片 Shim ring
40. 轴承 Bearing
41. 齿轮箱体 Gear case
42. 透气阀 Breather valve
43. 主动齿轮轴 Pinion shaft
44. 从动齿轮 Gear
45. 键 Key
46. 轴承 Bearing
47. 调整垫片 Shim ring
48. 垫圈 Washer
49. 孔手挡圈 Hole-circlip
50. 油封盖 Closing cap

51. 输出法兰 Output flange
52. 单向输出轴 Single output shaft
53. 键 Key
54. 键 Key
55. 油封 Oil seal
56. 内六角螺钉 Inner hex screw
57. 孔用挡圈 Hole-circlip
58. 轴承 Bearing
59. 输出轴 Hollow shaft
60. 从动齿轮 Gear
61. 垫圈 Washer
62. 轴承 Bearing
63. 调整垫片 Shim ring
64. 孔用挡圈 Hole-circlip
65. 油封 Oil seal
66. 键 Key
67. 垫圈 Washer
68. 轴用挡圈 Shaft-circlip
69. 输出双向轴 Double output shaft
70. 密封纸垫 Housing gasket
71. 键 Key
72. 键 Key
73. 铭牌 Nameplate



## 3、Hyperbolic Gear Reducer

## 型号说明/MODEL ILLUMINATE

减速机 / Gear unit							电机 / Motor			
KRV	063	2 /	20.25 /	FA1 /	SS1 /	B3 /	71B5-0.37-4P /	BMG /	1 /	X
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪

NO	说 明	Comments
1	减速机系列代号: KRV	Code for gear units series: KRV
2	减速机规格代号: 050、063、075、090、110	Specification code of gear units 050、063、075、090、110
3	1. 2: 表示2级传动 2. 3: 表示3级传动	1. 2:Means 2 stages 2. 3:Means 3 stages
4	减速机速比i	Speed ratio of reducer i
5	1.无代号表示不带输出法兰 2.FA,FB,FC,FD,FE(1/2):输出法兰代号和位置	1.No mark means without output flange 2.FA、FB、FC、FD、FE(1/2):output Flange and position
6	1.无代号表示孔输出 2.SS(1/2): 单向输出轴和位置 3.DS: 双向输出轴	1.No mark means hole output 2.SS(1/2):Single output shaft and position 3.DS:Double output shaft
7	安装方位代号	Installation position code
8	1.71B5: IEC输入法兰及规格代号 2.MV7124:紧凑型电机型号规格 3.71B5-0.37-4P: IEC输入法兰和电机功率、级数 4.56C: NEMA输入法兰及规格代号 5.ST80:伺服电机输入法兰规格代号 6.ST80-80ST-M01330:伺服电机输入法兰和伺服电机型号 7.80STM-M01330:紧凑型伺服电机型号规格 8.HS:表示轴输入	1. 71B5:IEC input flange code 2. MV7124:Compact motor type 3. 71B5-0.37-4P:IEC input flange code and model motors(poles of power) 4. 56C:NEMA input flange code 5. ST80:Servo motor input flange code 6. ST80-80ST-M01330:Servo motor input flange code and servo motor type 7. 80STM-M01330:Compact servo motor type 8. HS: means shaft input
9	1.无代号表示不带制动器 2.BMG:制动器	1.No mark means without brake 2.BMG:brake
10	电机接线盒位置, 默认位置1可以不写	Position of motor terminal box default position 1 not to write out is ok
11	电机进线位置, 默认位置X可以不写	Coil position for motor, default position X not to write out is ok

注: 订单时请说明是否带电机, 一般按不带电机供应。

NOTE: When ordering, you should show whether the reducers are equipped with motors, otherwise reducers aren't supplied with motors.

示例Example: **KRV0633/63.33/FA2/80B5**

4、R/F/S/K Four Series Gear Reducers

**R 系列**  
R series



**F 系列**  
F series



**S 系列**  
S series



**K 系列**  
K series

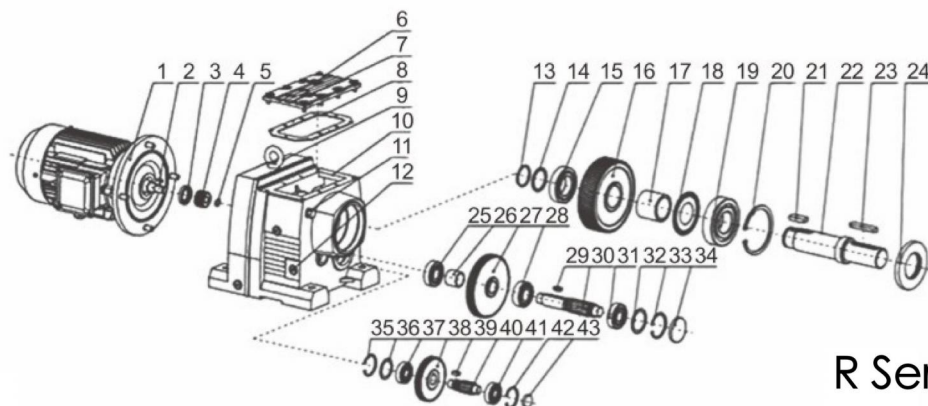




#### 4、R/F/S/K Four Series Gear Reducers

### RFSK四大系列零件爆炸视图及名称

Explosion views and names of RFSK four series parts

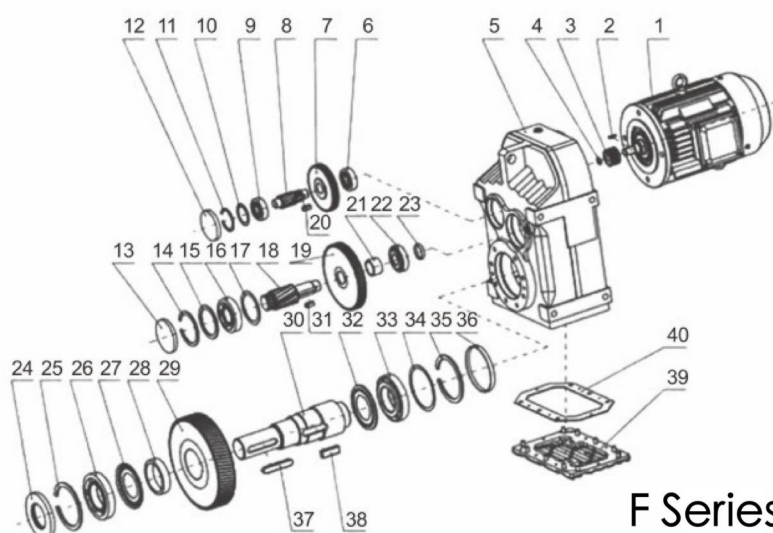


### R Series

1. 直联电机 Direct connected motor
2. 普通平键 Ordinary flat keys
3. 油封 Oil seal
4. 输入主动齿轮 Input the driving gear
5. 轴用弹性挡圈 Elastic retaining ring for shaft
6. 油塞 Oil plug
7. 视孔盖 Sight hole cover
8. 调整垫 Adjust the pad
9. 吊环螺钉 Eye bolt
10. 箱体 Box body
11. 通气塞 Ventilation plug
12. 油镜 Oil mirror
13. 轴用弹性挡圈 Elastic retaining ring for shaft
14. 垫圈 Gasket
15. 圆柱滚子轴承 Cylindrical roller bearings

16. 齿轮 Gears
17. 定距环 Fixed distance ring
18. 挡油环 Oil blocking ring
19. 深沟球轴承 Deep groove ball bearings
20. 孔用弹性挡圈 Elastic retaining ring for holes
21. 普通平键 Ordinary flat key
22. 输出轴 Output shaft
23. 普通平键 Ordinary flat key
24. 油封 Oil seal
25. 深沟球轴承 Deep groove ball bearings
26. 定距环 Fixed distance ring
27. 齿轮 Gears
28. 圆柱滚子轴承 Cylindrical roller bearings
29. 普通平键 Ordinary flat key
30. 齿轮轴 Gear shaft

31. 深沟球轴承 Deep groove ball bearings
32. 调整垫 Adjust the pad
33. 孔用弹性挡圈 Elastic retaining ring for holes
34. 密封盖弹性挡圈 Sealing cover elastic retaining ring
35. 孔用 Hole usage
36. 调整垫 Adjust the pad
37. 深沟球轴承 Deep groove ball bearings
38. 输入被动齿轮 Input passive gear
39. 普通平键 Ordinary flat key
40. 齿轮轴 Gear shaft
41. 深沟球轴承 Deep groove ball bearings
42. 孔用弹性挡圈 Elastic retaining ring for holes
43. 密封盖 Sealing cover



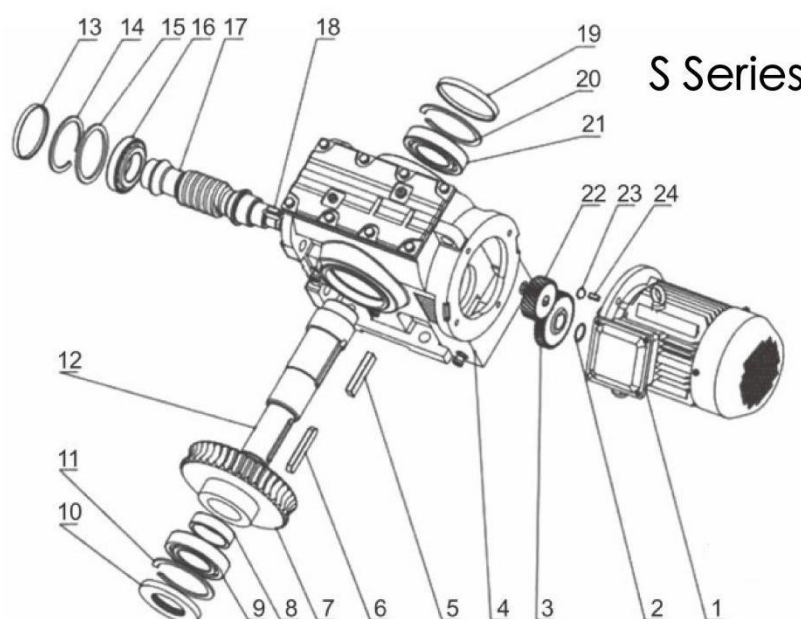
### F Series

1. 直联电机单元 Direct connected motor unit
2. 普通平键 Ordinary flat keys
3. 输入被动齿轮 Input passive gear
4. 轴用弹性挡圈 Elastic retaining ring for shaft
5. 箱体 Box body
6. 深沟球轴承 Deep groove ball bearings

7. 输入被动齿轮 Input passive gear
8. 齿轮轴 Gear shaft
9. 深沟球轴承 Deep groove ball bearings
10. 调整垫 Adjust the pad
11. 孔用弹性挡圈 Elastic retaining ring for holes
12. 封盖 Cover

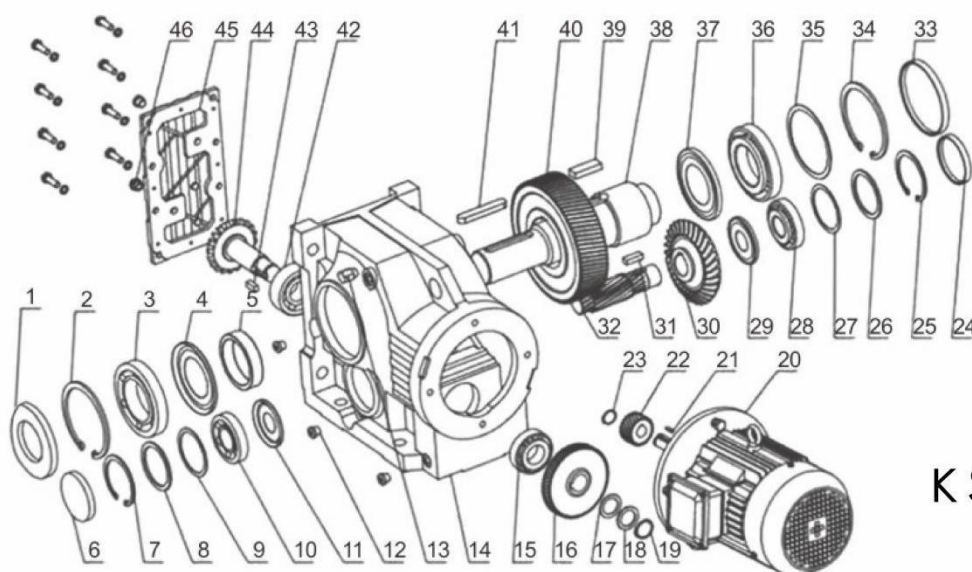
13. 封盖 Cover
14. 孔用弹性挡圈 Elastic retaining ring for holes
15. 垫圈 Gasket
16. 圆锥滚子轴承 Conical roller bearings
17. 挡油环 Oil blocking ring
18. 齿轮轴 Gear shaft
19. 齿轮 Gears
20. 普通平键 Ordinary flat key
21. 定距环 Fixed distance ring
22. 圆锥滚子轴承 Conical roller bearings
23. 封盖 Cover
24. 双唇油封 Double lip oil seal
25. 孔用弹性挡圈 Elastic retaining ring for holes
26. 圆锥滚子轴承 Conical roller bearings
27. 挡油环 Oil blocking ring
28. 定距环 Fixed distance ring
29. 齿轮 Gears
30. 输出轴 Output shaft
31. 普通平键 Ordinary flat key
32. 挡油环 Oil blocking ring
33. 圆锥滚子轴承 Conical roller bearings
34. 调整垫 Adjust the pad
35. 孔用弹性挡圈 Elastic retaining ring for holes
36. 封盖 Cover the lid
37. 普通平键 Ordinary flat key
38. 普通平键 Ordinary flat key
39. 铝盖板 Aluminum cover plate
40. 调整垫 Adjust the pad

#### 4、R/F/S/K Four Series Gear Reducers



### S Series

1. 直联电机单元 Direct connected motor unit
2. 轴用弹性挡圈 Elastic retaining ring for shaft
3. 输入被动齿轮 Input passive gear
4. 箱体 Box body
5. 普通平键 Ordinary flat key
6. 普通平键 Ordinary flat key
7. 蜗轮 Worm gear
8. 定距环 Fixed distance ring
9. 轴承 Bearings
10. 油封 Oil seal
11. 孔用弹性挡圈 Elastic retaining ring for holes
12. 输出轴 Output shaft
13. 封盖 Cover
14. 孔用弹性挡圈 Elastic retaining ring for holes
15. 垫圈 Gasket
16. 轴承 Bearings
17. 蜗杆 Worm gear
18. 普通平键 Ordinary flat key
19. 封盖 Cover
20. 孔用弹性挡圈 Elastic retaining ring for holes
21. 轴承 Bearings
22. 输入主动齿轮 Input the driving gear
23. 轴用弹性挡圈 Elastic retaining ring for shaft
24. 主动输入主动轮 Actively input the driving wheel



### K Series

1. 油封 Oil seal
2. 孔用弹性挡圈 Elastic retaining ring for holes
3. 圆柱滚子轴承 Cylindrical roller bearings
4. 挡油环 Oil blocking ring
5. 定距环 Fixed distance ring
6. 密封盖 Sealing cover
7. 孔用弹性挡圈 Elastic retaining ring for holes
8. 垫圈 Gaskets
9. 调整垫 Adjust the pad
10. 圆柱滚子轴承 Cylindrical roller bearings
11. 挡油环 Oil blocking ring
12. 油塞 Oil plug
13. 通气塞 Ventilation plug
14. 箱体 Box body
15. 圆柱滚子轴承 Cylindrical roller bearings
16. 被动齿轮 Passive gear
17. 调整垫 Adjust the pad
18. 垫圈 Gaskets
19. 轴用弹性挡圈 Elastic retaining ring for shaft
20. 直联电机 Direct connected motor
21. 普通平键 Ordinary flat key
22. 主动齿轮 Drive gear
23. 轴用弹性挡圈 Elastic retaining ring for shaft
24. 密封盖 Sealing cover
25. 孔用弹性挡圈 Elastic retaining ring for holes
26. 垫圈 Gaskets
27. 调整垫 Adjust the pad
28. 圆柱滚子轴承 Cylindrical roller bearings
29. 挡油环 Oil blocking ring
30. 锥齿轮 Cone gear
31. 普通平键 Ordinary flat key
32. 齿轮轴 Gear shaft
33. 密封盖 Sealing cover
34. 孔用弹性挡圈 Elastic retaining ring for holes
35. 调整垫 Adjust the pad
36. 圆柱滚子轴承 Cylindrical roller bearings
37. 挡油环 Oil blocking ring
38. 输出轴 Output shaft
39. 普通平键轴 Ordinary flat cast bearings
40. 齿轮 Gears
41. 普通平键 Ordinary flat key
42. 圆柱滚子轴承 Cylindrical roller bearings
43. 普通平键 Ordinary flat key
44. 锥齿轮轴 Cone gear shaft
45. 视孔盖 Sight hole cover
46. 油镜 Oil mirror



## 4、R/F/S/K Four Series Gear Reducers

## 型号说明 Model Notes

## 减速机符号说明 Reducer Model Introduction

<b>1</b>	<b>R</b>	<b>F</b>	<b>87</b>	<b>II</b>	<b>D</b>	<b>100</b>	<b>M</b>	<b>4</b>	<b>/</b>	<b>BMG</b>	<b>/</b>	<b>HF</b>	<b>/</b>	<b>TF</b>	<b>/</b>	<b>124.97</b>	<b>/</b>	<b>M1</b>	<b>/</b>	<b>90°</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						

<b>1</b> 企业代码 	<b>2</b> 产品代码 R-斜齿轮减速机 F-平行轴-斜齿轮减速机 K-斜齿轮-伞齿轮减速机 S-斜齿轮-蜗轮蜗杆减速机	<b>3</b> 装配形式 无代码-底脚安装 F-法兰安装 R.F-底脚法兰安装 M-法兰安装带加长轴承箱 X-底脚安装单级传动 XF-法兰安装单级传动	<b>4</b> 减速机规格号 87-减速机 规格号为87	<b>5</b> 法兰盘大小 无代码-无法兰, 或只有一种法兰, 或一种以上法兰中的最小法兰 II-两种法兰中的大法兰, 三种法兰中的法兰 III-三种法兰中的最大法兰
<b>6</b> 电动机 D-三相异步电动机 (IP54) YB-隔爆型三相异步电动机 YGP-轨道用变频三相异步电动机 YZP-冶金、起重用变频调速三相异步电动机 YVP-变频调速三相异步电动机 YD-变极多速三相异步电动机	<b>7</b> 电动机规格代号 100-电机中心高为100mm	<b>8</b> 电动机定子铁心长度代号 D、K、N、S、M、ML、L	<b>9</b> 电动机极数 4-电动机极数为4	<b>10</b> 制动器 无代码-无制动器 BMG-制动器
<b>11</b> 手动释放装置 无代码-无手动释放装置 HF-手动释放 锁在制动释放位置 HR-手动释放 自动返回制动位置	<b>12</b> 电机热保护 无代码-无电机热保护 TF-热敏电阻保护装置 PTC热敏电阻 TH-恒温器保护装置 双金属片开关	<b>13</b> 减速机转动比 124.97-减速机 传动比为124.97	<b>14</b> 安装位置 M1-安装形式图中 M1位置	<b>15</b> 接线盒位置 无代码-安装形式图中0°位置 90°-安装形式图中90°位置

<b>1</b>	<b>R</b>	<b>F</b>	<b>87</b>	<b>II</b>	<b>D</b>	<b>100</b>	<b>M</b>	<b>4</b>	<b>/</b>	<b>BMG</b>	<b>/</b>	<b>HF</b>	<b>/</b>	<b>TF</b>	<b>/</b>	<b>124.97</b>	<b>/</b>	<b>M1</b>	<b>/</b>	<b>90°</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						

<b>1</b> Qiye Code 	<b>2</b> Product Code R-Helical Geared Motor F-Parallel Shaft-Helical Geared Motor K-Helical-Bevel Geared Motor S-Helical-Worm Geared Motor	<b>3</b> Installation type No Code-Feet-mounted F-Flange-mounted F-Feet and Flange-mounted M-Flange-mounted with extended bearing housing X-Single-stage Feet-mounted XF-Single-stage Flange-mounted	<b>4</b> Gear Unit Size 87-Gear Unit Size 87	<b>5</b> Flange Size I -No Code-No flange or only one flange or the smallest flange II -Second bigger flange III -Biggest flange
<b>6</b> Electromotor D-Three-phase Asynchronous Motor(IP54) YB-Flame-Proof with three-phase asynchronous motor YZP-Metalurgy overweight with three-phase asynchronous motor with frequency. YD-Pole-Changing three-phase asynchronous motor	<b>7</b> Frame Size 100-Height of motor center is 100mm	<b>8</b> Stator Length D、K、N、S、M、ML、L	<b>9</b> Number of Poles 4-4 Poles	<b>10</b> Brake No Code-No Brakes BMG-Brakes
<b>11</b> Brake Release No Code-NO Brake Release HF-Manual release(lock in the brake release position) Brake Release HR-Manual release(automatic braking position)	<b>12</b> Thermistor No Code-NO Thermistor HF-Thermistor Sensor TF-Thermistor protection (PTC thermistor) TH-Thermostat protection (Bimetal switch)	<b>13</b> Ratio 124.97-Ration 124.97	<b>14</b> Mounting Position M1-Mounting Position M1	<b>15</b> Terminal Box Position No Code-Terminal Box Position is 0° 90° -Terminal Box Position is 90°

#### 4、R/F/S/K Four Series Gear Reducers

**1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13** **14** **15**

**F A 87 G D 100 M 4 / BMG / HF / TF / 123.29 / M1 / 90°**

<b>1</b> 企业代码	<b>2</b> 产品代码 R-斜齿轮减速机 F-平行轴-斜齿轮减速机 K-斜齿轮-伞齿轮减速机 S-斜齿轮-蜗轮蜗杆减速机	<b>3</b> 装配型式 无代码-底脚安装 F-法兰安装 A-空心轴安装 AF-法兰空心轴安装 H-锁紧盘输出轴 V-花键空心轴	<b>4</b> 减速机规格号 87-减速机规格号为87	<b>5</b> 扭矩臂 无代码-无扭矩臂 G-扭矩臂
<b>6</b> 电动机 D-三相异步电动机 (IP54) YB-隔爆型三相异步电动机 YGP-辊道用变频三相异步电动机 YZP-冶金、起重用变频调速三相异步电动机 YVP-变频调速三相异步电动机 YD-变频多速三相异步电动机	<b>7</b> 电动机规格代号 100-电机中心高为100mm	<b>8</b> 装配型式 电动机定子铁心长度代号 D、K、N、S、M、ML、L	<b>9</b> 电动机极数 4-电动机极数为4	<b>10</b> 制动器 无代码-无制动器 BMG-制动器
<b>11</b> 电动机 手动释放装置 无代码-无手动释放装置 HF-手动释放 锁在制动释放位置 HR-手动释放 自动返回制动位置	<b>12</b> 电机热保护 无代码-无电机热保护 TF-热敏电阻保护装置 PTC热敏电阻 TH-恒温器保护装置 双金属片开关	<b>13</b> 装配型式 减速机转动比 123.29-减速机传动比为123.29	<b>14</b> 安装位置 M1-安装形式图中M1位置	<b>15</b> 接线盒位置 无代码-安装型式图中0°位置 90° -安装型式图中90°位置

**1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13** **14** **15**

**F A 87 G D 100 M 4 / BMG / HF / TF / 123.29 / M1 / 90°**

<b>1</b> Qiye Code	<b>2</b> Product Code R-Helical Geared Motor F-Parallel Shaft-Helical Geared Motor K-Helical-Bevel Geared Motor S-Helical-Worm Geared Motor	<b>3</b> Unit Model No Code-Feet-mounted F-Flange-mounted A-Hollow Shaft-mounted AF-Flange-mounted with Hollow Shaft	<b>4</b> Gear Unit Size 87-Gear Unit Size 87	<b>5</b> Torque Arm No Code-No Torque Arm G-Torque Arm
<b>6</b> Electromotor D-Three-phase Asynchronous Motor(IP54) YB-Flame-Proof with threephase asynchronous motor YGP-Roller with threephase asynchronous motor YZP-Metalurgy overweight with three-phase asynchronous motor TVP-three phase asynchronous motor with frequency YD-Pole- Changing three-phase asynchronous motor	<b>7</b> Frame Size 100-Height of motor center is 100mm	<b>8</b> Stator Length D、K、N、S、M、ML、L	<b>9</b> Number of Poles 4-4 Poles	<b>10</b> Brake No Code-No Brakes BMG-Brakes
<b>11</b> Beake Release No Code-No Brake Release HF-Manual release(lock in the brake release position) Brake Release HR-Manual release(automatic braking position)	<b>12</b> Thermistor No Code-No Thermistor TF-Thermistor Sensor TF-Thermistor protection (PTC thermistor) TH-Thermostat protection (Bimetal swoth)	<b>13</b> Ratio 123.29-Ratio 123.29	<b>14</b> Mounting Position M1-Mounting Position M1	<b>15</b> Terminal Box Position No Code-Terminal Box Position is 0° 90° -Terminal Box Position is 90°



## 4、R/F/S/K Four Series Gear Reducers

K		A		87		T		D		100		L		4		/ BMG /		HF /		TF /		115.82 /		B /		M1 /		90°			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																
1 企业代码		2 产品代码 R-斜齿轮减速机 F-平行轴-斜齿轮减速机 K-斜齿轮-伞齿轮减速机 S-斜齿轮-蜗轮蜗杆减速机		3 装配型式 无代码-底脚安装 F-法兰安装 A-空心轴安装 AF-法兰空心轴安装 H-锁紧盘输出轴 V-花键空心轴		4 减速机规格号 87-减速机规格号为87		5 扭矩臂 无代码-无扭矩臂 T-扭矩臂		6 电动机 D-三相异步电动机 (IP54) YB-隔爆型三相异步电动机 YGP-铝道用变频三相异步电动机 YZP-冶金、起重用变频调速三相异步电动机 YVP-变频调速三相异步电动机 YD-变频多速三相异步电动机		7 电动机规格代号 100-电机中心高为100mm		8 电动机定子铁心长度代号 D、K、N、S、M、ML、L		9 电动机极数 4-电动机极数为4		10 制动器 无代码-无制动器 BMG-制动器		11 手动释放装置 无代码-无手动释放装置 HF-手动释放 锁在制动释放位置 HR-手动释放 自动返回制动位置		12 电机热保护 无代码-无电机热保护 TF-热敏电阻保护装置 PTC热敏电阻 TH-恒温器保护装置 双金属片开关		13 减速机转动比 115.82-减速机传动比为115.82		14 轴指向 A-轴指向为A B-轴指向为B AB-双输出轴		15 安装位置 M1-安装形式图中M1位置		16 接线盒位置 无代码-安装型式图中0°位置 90°-安装型式图中90°位置	

K		A		87		T		D		100		L		4		/ BMG		/ HF		/ TF		/ 115.82		/ B		/ M1		/ 90°																																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																																																
1		Qiye Code		2		Product Code		3		Unit Model		4		Gear Unit Size		5		Torque Arm		6		Electromotor		7		Frame Size		8		Stator Length		9		Number of Poles		10		Brake		11		Beake Release		12		Thermistor		13		Ratio		13		Position of the Output Shaft		15		Mounting Position		16		Terminal Box Position	
						R-Helical Geared Motor F-Parallel Shaft-Helical Geared Motor K-Helical-Bevel Geared Motor S-Helical-Worm Geared Motor				No Code-Feet-mounted F-Flange-mounted A-Hollow Shaft-mounted AF-Flange-mounted with Hollow Shaft				87-Gear Unit Size 87				No Code-No Torque Arm T-Torque Arm				D-Three-phase Asynchronous Motor(IP54) YB-Flams-Proof with threephase asynchronous motor YGP-Roller wirh threephase asynchronous motor YZP-Metallrvg overweigt with three-phase asynchronous motor TVP-three phase asynchronous motor asynchronous motor with frequency YD-Pole- Changing three-phase asynchronous motor				100-Height of motor center 100mm				D、K、N、S M、ML、L				4-4 P				No Code-No Brakes BMG-Brakes				No Code-No Brake Release HF-Manual release(lock in the brake release position) Brake Release HR-Manual release(automatic braking position)				No Code-No Thermistor TF-Thermistor Sensor TF-Thermistor protection (PTC thermistor) TH-Thermostat protection (Bimetal swoth)				115.82-Ratio 115.82				A-Shaft with A B-Shaft with B AB-Shaft with A+B				M1-Mounting Position M1				No Code-Terminal Box Position is 0° 90° -Terminal Box Position is 90°	

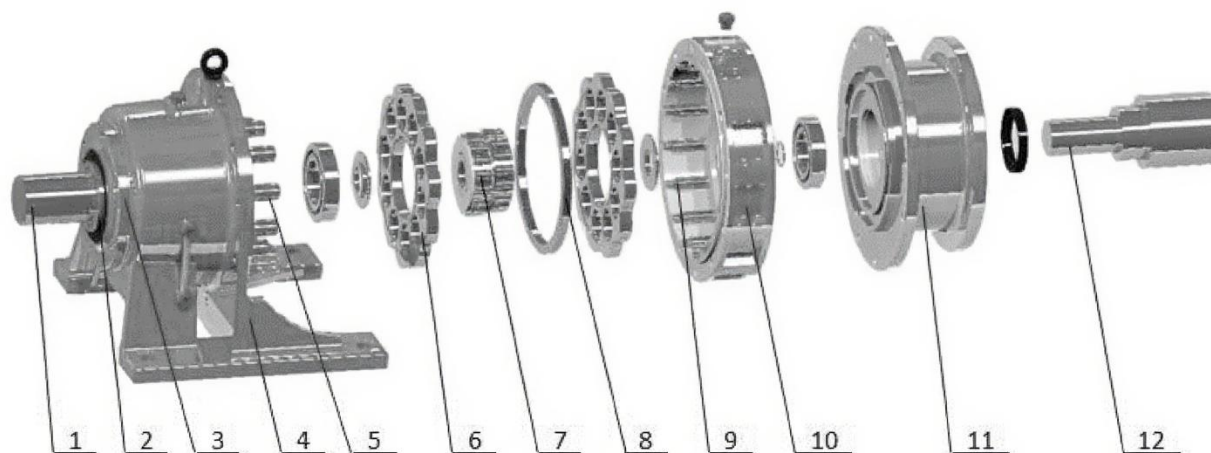
## 4、R/F/S/K Four Series Gear Reducers

S		A		87		T		D		100		M		4		BMG		HF		TF		110.4		d45		B		M1		90°	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17															
1 企业代码				2 产品代码 R-斜齿轮减速机 F-平行轴-斜齿轮减速机 K-斜齿轮-伞齿轮减速机 S-斜齿轮-蜗轮蜗杆减速机				3 装配型式 无代码-脚底安装 F-法兰安装 A-空心轴安装 AF-法兰空心轴安装 H-锁紧盘输出轴 V-花键空心轴				4 减速机规格号 87-减速机规格号为87				5 扭矩臂 无代码-无扭矩臂 T-扭矩臂															
6 电动机 D-三相异步电动机 (IP54) YB-隔爆型三相异步电动机 YGP-辊道用变频三相异步电动机 YZP-冶金、起重用变频调速三相异步电动机 YVP-变频调速三相异步电动机 YD-变频多速三相异步电动机				7 电动机规格代号 100-电机中心高为100mm				8 电动机定子铁心长度代号 D、K、N、S、M、ML、L				9 电动机极数 4-电动机极数为4				10 制动器 无代码-无制动器 BMG-制动器															
11 手动释放装置 无代码-无手动释放装置 HF-手动释放 锁在制动释放位置 HR-手动释放 自动返回制动位置				12 电机热保护 无代码-无电机热保护 TF-热敏电阻保护装置 PTC热敏电阻 TH-恒温器保护装置 双金属片开关				13 减速机传动比 110.4-减速机传动比为110.4				14 空心轴孔径 d45-空心轴孔径为45H7 (尺寸表中两种孔径选择一种)				15 轴指向 A-轴指向为A B-轴指向为B AB-双输出轴															
16 安装位置 M1-安装形式图中M1位置				17 接线盒位置 无代码-安装型式图中0°位置 90°-安装型式图中90°位置																											

S		A		87		T		D		100		M		4		/BMG/		HF/		TF/		110.4/		d45/		B/		M1/		90°	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17															
1 Qiye Code		2 Product Code  R-Helical Geared Motor F-Parallel Shaft-Helical Geared Motor K-Helical-Bevel Geared Motor S-Helical-worm Geared Motor				3 Unit Model  No Code-Feet-mounted F-Flange-mounted A-Hollow Shaft-mounted AF-Flange-mounted with Hollow Shaft				4 Gear Unit Size  87-Gear Unit Size 87				5 Torque Arm  No Code-No Torque Arm T-Torque Arm																	
6 Electromotor <small>D-Three-phase Asynchron-ous motor(IP54) YB-Flame-Proof with three-phase asynchronous motor YGP-Roller with three-phase asynchronous motor YZP-Metallurgy overweight with three-phase asynchronous motor YVP-Three phase asynchronous motor with frequency YD-Pole-Changing three-phase asynchronous motor</small>				7 Frame Size  100-Height of motor center is 100mm				8 Stator Length  D、K、N、S、M、ML、L				9 Number of Poles  4-4P				10 Brake  No Code-No Brakes BMG-Brakes															
11 Brake Release  No Code-No Brakes Release HF-Manual release(lock in the brake release position) Brake Release HR-Manual release(automatic bracking position)				12 Thermistor  No Code-No Thermistor TF-Thermistor Sensor TF-Thermistor protection (PTC thermistor) TF-Thermistor protection (Bimetal swtch)				13 Ratio  110.4-Ratio 110.4				14 Hollow shaft diameter  d45-Hollow shaft diameterter is45				15 Position of the Output Shaft  A-Shaft with A B-Shaft with B AB-Shaft with A+B															
16 Mountiong Position  M1-Mounting Position M1				17 Terminal Box Position  No Code-Terminal Box Position is 0° 90° -Terminal Box Position is 90°																											



## 5、Cycloidal Reducer



- |                            |                             |   |
|----------------------------|-----------------------------|---|
| 1.输出轴 Output shaft         | 2.紧固环 fastening ring        | 3.小端盖 Small end cover                       |
| 4.机座 Machine base          | 5.销轴销套 Pin shaft pin sleeve | 6.摆线轮 Cycloid wheel                         |
| 7.偏心轴承 Eccentric bearing   | 8.间隔环 Spacer ring           | 9.针齿销针齿套 Needle gear pin needle gear sleeve |
| 10.针齿壳 Needle gear housing | 11.电机接头 Motor connector     | 12.输入轴 Input shaft                          |

### 产品特性 PRODUCT CHARACTERISTICS

Cycloidal reducer is a novel transmission machinery that adopts the principle of planetary transmission with few tooth differences and cycloidal pinwheel meshing according to JB/T2982. It is widely used as a driving and reducing device in the fields of textile printing and dyeing, light industry and food, metallurgical miners, petrochemicals, lifting and transportation, and engineering machinery.

#### (1) High speed ratio and high efficiency

Single stage transmission can achieve a reduction ratio of 1:87, with an efficiency of over 90%. If multi-stage transmission is used, the reduction ratio is even greater.

#### (2) Compact structure and small volume

Adopting the principle of planetary transmission, the input shaft and output shaft are on the same axis, with a compact structure and small volume.

#### (3) Easy to assemble and disassemble, easy to maintain

Reasonable structural design, simple disassembly and assembly, and easy maintenance.

#### (4) Smooth operation with low noise

The cycloid needle teeth have a large number of meshing teeth, a high overlap coefficient, and a mechanism of mechanical stability, which minimizes vibration and noise control.

#### 5) Reliable use and long lifespan

The main transmission meshing parts are made of bearing steel, with good mechanical performance, smooth rolling friction, and longer durability and service life.

#### 6) Strong overload capacity, impact resistance, and low inertia moment

Suitable for situations with frequent startup and forward/reverse rotation.

## 5、Cycloidal Reducer

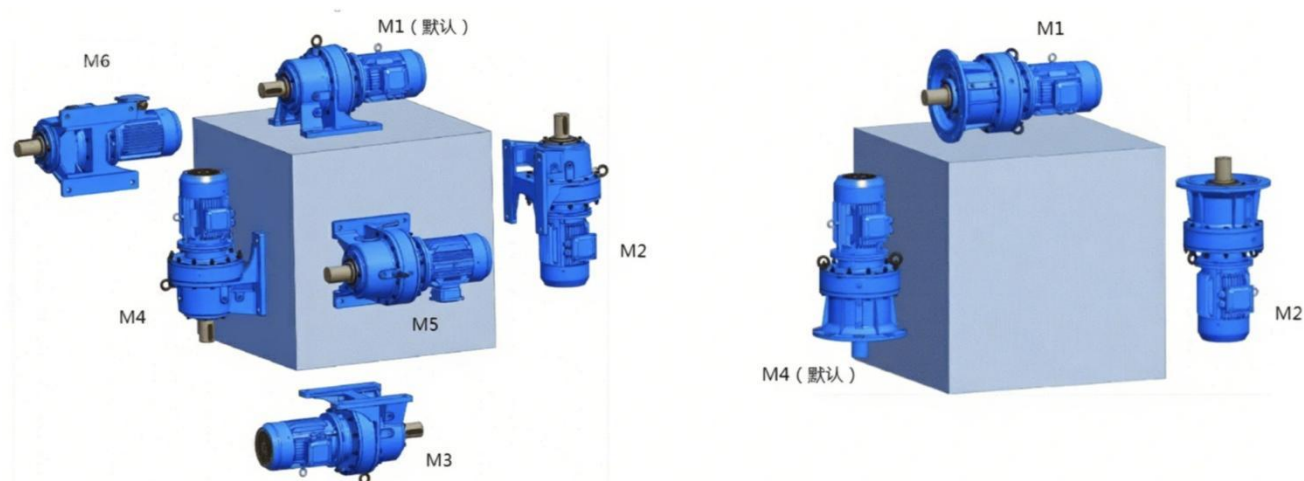
## 常规型号 CONVENTIONAL MODEL

1 class	B series	09	0	1	2	3	4		5	6	7	8	9	
	X series	1	2	3	4	5	6	7	8	9	10	11	12	
2 class	B series	10	20	31	41	42	52	53	63	64	74	84	85	95
	X series	32	42	53	63	64	84	85	95	96	106	117	118	128
3 class	B series	2009	320	420	531	631	742	852	953					
	X series	421	542	642	853	953	1064	1184	1285					

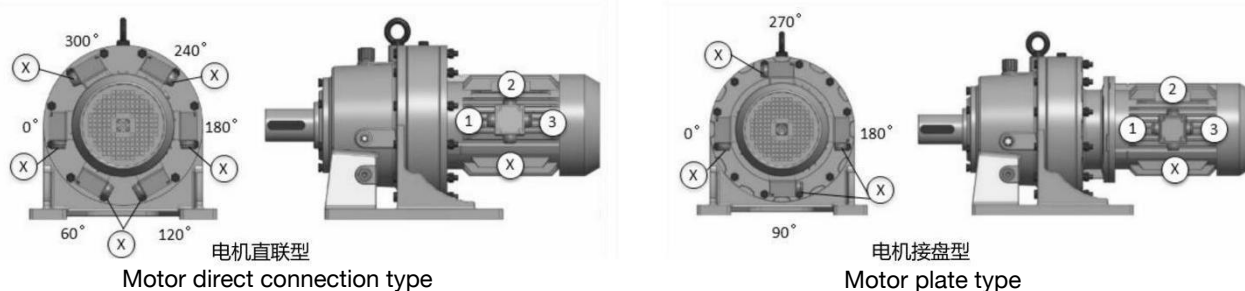
## 减速比 REDUCTION RATIO

1 CLASS	7	9	11	13	15	17	19	23
	29	35	43	59	71	87		
2 CLASS	99	121	187	289	319	391	493	595
	(11×9)	(11×11)	(17×11)	(17×17)	(29×11)	(23×17)	(29×17)	(35×17)
	649	731	841	1003	1225	1357	1505	1849
	(59×11)	(43×17)	(29×29)	(59×17)	(35×35)	(59×23)	(43×35)	(43×43)
3 CLASS	2065	2537	3053	3481	4189	5133	6177	7569
	(59×35)	(59×43)	(71×43)	(59×59)	(71×59)	(87×59)	(87×71)	(87×87)
8041 ~ 658503								

## 安装形式 INSTALLATION FORM



## 电机接线盒位置 LOCATION OF MOTOR JUNCTION BOX





## 5、Cycloidal Reducer

地脚安装 foot mounting



法兰安装 flange mounting



电机接盘型  
motor plate type



双轴型 double-shaft



电机直联型  
motor direct connection

产品系列	
B 系列	B series
X 系列	X series

安装方式	Installation method
地脚安装 W	foot mounting
法兰安装 L	flange mounting

减速级	Reducer class
一级减速 (无标注)	1 CLASS
二级减速 E	2 CLASS
三级减速 S	3 CLASS

输入端连接方式	Input connection method
双轴型 (无标注)	Double-shaft
配带电机 D	Equipped with motor

B W D 3 - 17 - Y5.5 - 6P - M4 - 180° - 2 - CZ

- CZ:电机直联 Motor direct connection
- ZP:电机自备或自配 Motor self provided or self equipped
- 入线口位置 2 Inlet position 2
- 电机接线盒方向 180° Direction of motor junction box 180°  
(参见电机接线盒位置及入线口表示方法)
- M4 安装形式 (参见安装型式图例) M4 Installation form
- 六极电机 (不注明时默认为 4P) 6 Horsepower motor
- 电机功率 5.5kW (参见选型参数表) motor power 5.5kw
- 减速比 17 (参见选型参数表) reduction ratio 17
- 型号 3 (参见选型参数表) model 3
- 配带电动机 Equipped with motor
- 一级减速 1 class reducer
- 地脚安装 foot mounting
- B 系列摆线针轮减速机 B-series cycloidal pinwheel reducer

6、SWL/SS Worm Screw Lift

产品图片 Product images



装配方式A  
Assembly method A



装配方式A  
Assembly method A



普通型  
Ordinary type



T(法兰型)  
T (flange type)



T(法兰型)  
T (flange type)



01



03

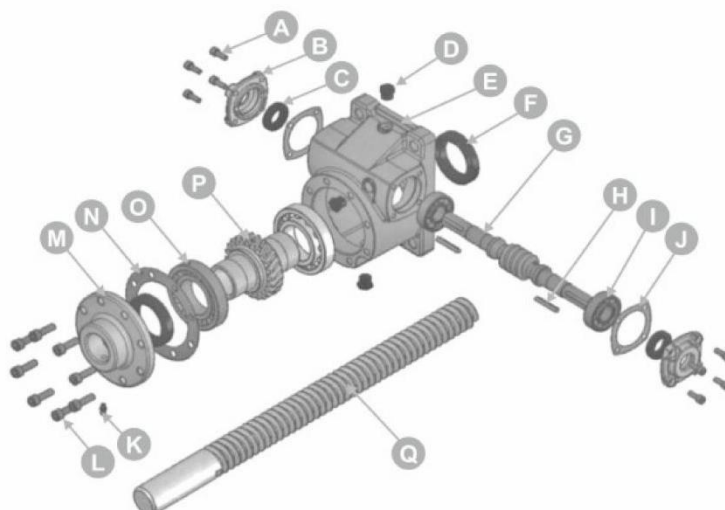


04

SWL 蜗轮丝杆升降机零件爆炸视图及名称

Explosion view and name of SWL worm gear screw elevator parts

- A-内六角螺丝 Hexagonal socket screw
- B-入力端盖 Inlet end cap
- C-油封 Oil seal
- D-放油螺栓 Oil drain bolt
- E-蜗轮箱 Worm gear box
- F-油封 Oil seal
- G-蜗杆 Worm gear
- H-键 Key
- I-轴承 Bearing
- J-石棉垫片 Asbestos gasket
- K-牛油嘴 Butter mouth
- L-内六角螺丝 Hexagonal socket screw
- M-出力端盖 Output end cover
- N-石棉垫片 Asbestos gasket
- O-轴承 Bearing
- P-蜗轮 Worm gear
- Q-丝杆 Screw rod





## 6、SWL/SS Worm Screw Lift

### 1. 概述 Summary

SWL系列蜗轮丝杆升降机具有起升、下降、借助辅件推进、翻转及各种高度位置调整等诸多功能。广泛应用于机械、冶金、建筑、水利、化工、医疗、文体等各种行业。

SWL蜗轮丝杆升降机是一种基础起重部件，具有结构紧凑、体积小、重量轻、无噪音、安装方便、使用灵活、可靠性高、动力源广泛、配套功能多、使用寿命长等许多优点。可以单台或组合使用，能按一定程序准确地控制调整提升或推进的高度，可以用电动机或其他动力直接带动，也可以手动。

为提高SWL系列蜗轮丝杆升降机的效率和承载能力，制定了特殊的、先进工艺提高升降机的综合性能，以满足广大客户的要求。

SWL有不同的结构型式和装配型式，提升高度可按用户的要求定制。

The SWL series worm gear screw elevator has many functions such as lifting, lowering, pushing with auxiliary parts, flipping, and various height and position adjustments. Widely used in various industries such as machinery, metallurgy, construction, water conservancy, chemical industry, medical, cultural and sports.

SWL worm gear screw lift is a basic lifting component with many advantages such as compact structure, small volume, light weight, no noise, easy installation, flexible use, high reliability, wide power source, multiple supporting functions, and long service life. It can be used individually or in combination, and can accurately control and adjust the height of lifting or propulsion according to a certain program. It can be directly driven by an electric motor or other power, or manually operated.

To improve the efficiency and load-bearing capacity of the SWL series worm screw elevator, special and advanced processes have been developed to enhance the overall performance of the elevator, in order to meet the requirements of our customers.

### 2. 型式 Type

#### 2.1 结构型式 Structural type

1型——丝杆与蜗轮为螺纹连接

Type 1– Threaded connection between screw and worm gear

2型——丝杆与蜗轮为键连接，螺母作轴向移动

Type 2– The screw is connected to the worm gear as a key, and the nut moves axially

#### 2.2 装配型式 Assembly type

升降机每种结构型式又分为两种装配型式

Each structural type of elevator is divided into two assembly types:

A型——丝杆（或螺母）向上移动；

Type A – The screw (or nut) moves upwards;

B型——丝杆（或螺母）向下移动。

Type B – The screw (or nut) moves downward.

#### 2.3 丝杆头部型式 Screw head type

1型结构型式的丝杆头部分为Ⅰ型（圆柱型）、Ⅱ型（法兰型）、Ⅲ型（螺纹型）和Ⅳ型（扁头型）四种型式；

The screw head of Type 1 structural type is divided into four types: Type I (cylindrical type), Type II (flange type), Type III (threaded type), and Type IV (flat head type);

2型结构型式的丝杆头部分为Ⅰ型（圆柱型）和Ⅲ型（螺纹型）两种型式。

The screw head of the Type 2 structural type is divided into two types: Type I (cylindrical type) and Type III (threaded type).

## 6、SWL/SS Worm Screw Lift

## 2.4 传动比 Transmission ratio

升降机分为两种传动比，即普通（P）和慢速（M）。

Elevators are divided into two transmission ratios, namely normal (P) and slow (M).

## 2.5 提升承载能力 Enhance carrying capacity

0.5, 1, 2.5, 5, 10, 15, 20, 25, 35, 50, 100 (×10kN) 11种。

0.5, 1, 2.5, 5, 10, 15, 20, 25, 35, 50, 100 (×10kN) 11 types.

## 2.6 丝杆的防护 Protection of screw rod

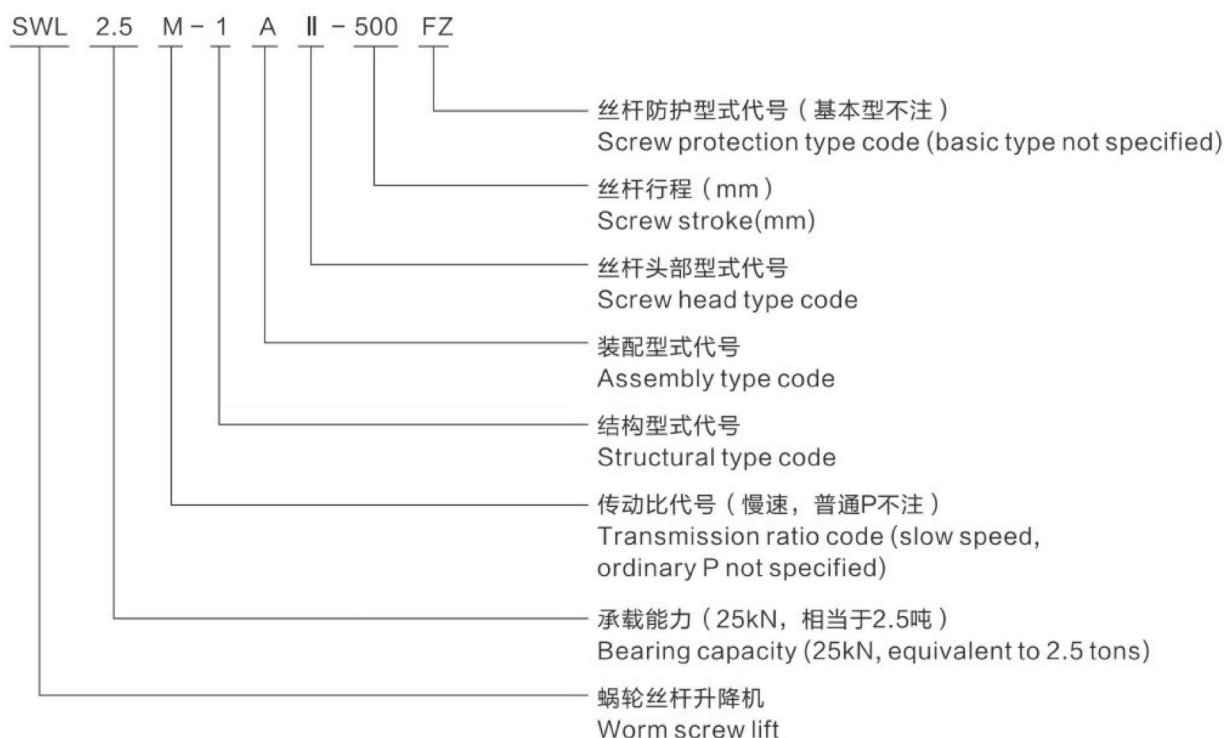
1型升降机丝杆的防护分为：基本型、防旋转型（F）和带防护罩型（Z）；

The protection of type 1 elevator screw is divided into: basic type, anti rotation transformation (F), and protective cover type (Z);

2型升降机丝杆的防护分为：基本型和带防护罩型（Z）。

The protection of type 2 elevator screws is divided into basic type and shielded type (Z).

## 2.7 标记示例 Tag Example





## 7、WP Worm Gear Reducer

### 产品图片 Product images

WPA



WPS



WPO



WPX



WPDA



WPKA



WPKS



WPDKA

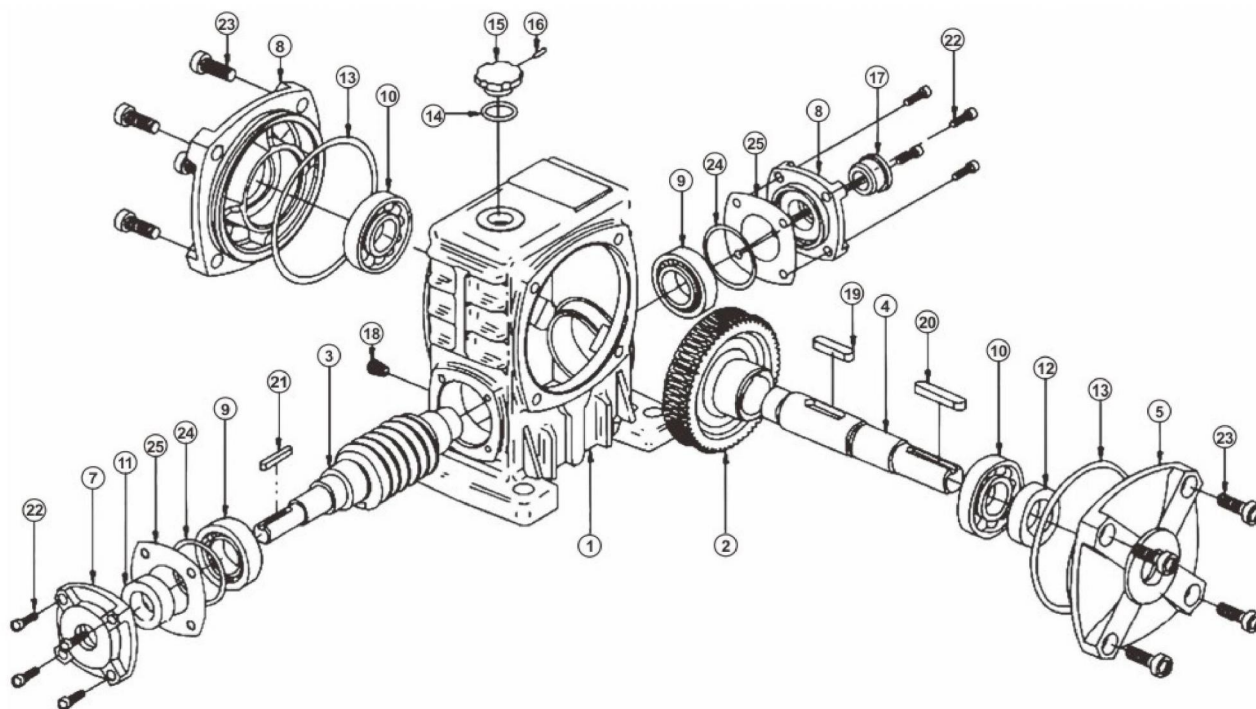


WPEA



## WP 蜗轮蜗杆零件爆炸视图及名称

WP Worm Gear Parts Explosion View and Name



- |                           |                        |                          |
|---------------------------|------------------------|--------------------------|
| 1. 机座 Frame               | 10. 轴承 Bearing         | 19. 平键 Key               |
| 2. 蜗轮 Worm wheel          | 11. 油封 Oil seal        | 20. 平键 Key               |
| 3. 蜗杆轴 Worm shaft         | 12. 油封 Oil seal        | 21. 平键 Key               |
| 4. 出力轴 Output shaft       | 13. O型圈 O ring         | 22. 内六角螺钉 Intl.hex screw |
| 5. 出力盖 Output shaft cover | 14. O型圈 O ring         | 23. 内六角螺钉 Intl.hex screw |
| 6. 出力盖 Output shaft cover | 15. 加油盖 Oil hole cover | 24. 调整圈 Shim             |
| 7. 入力盖 Input shaft cover  | 16. 塞子 Pin             | 25. 密封垫 Gasket           |
| 8. 入力盖 Input shaft cover  | 17. 油标 Oil gauge       |                          |
| 9. 轴承 Bearing             | 18. 油塞 Oil plug        |                          |

## 概述

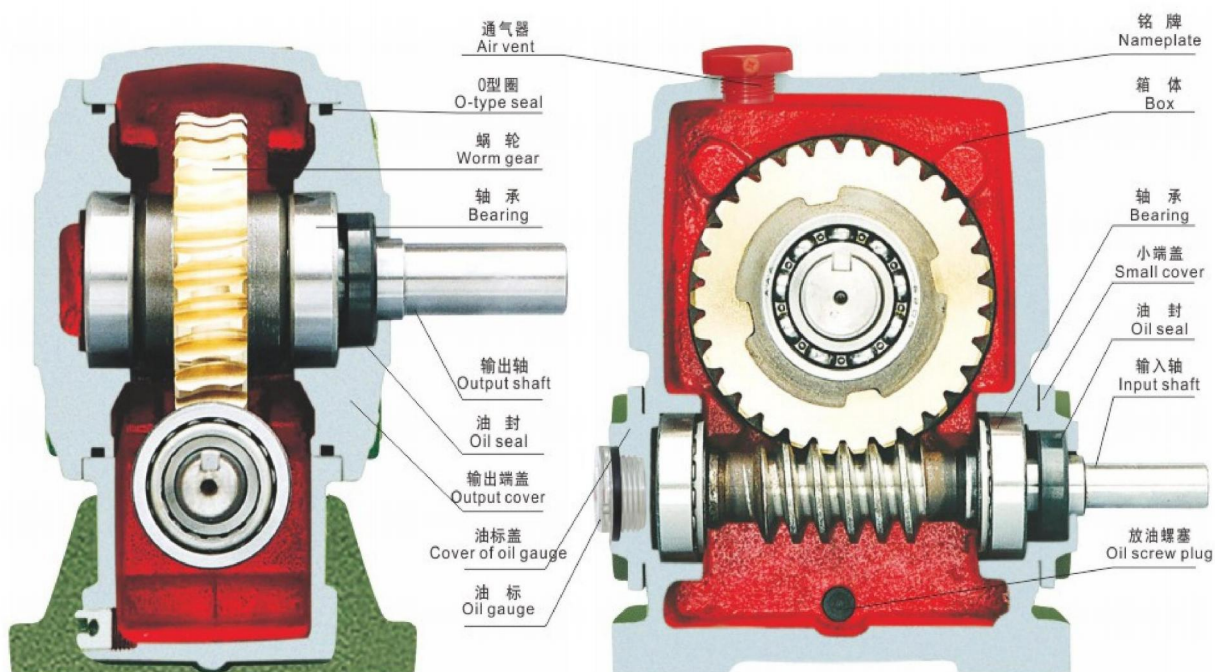
## Summary

WP蜗轮蜗杆减速机是在WD减速机的基础上发展起来的，蜗杆采用45#优质钢经热处理加工制造，蜗轮用锡青铜铸制而成，耐磨性能良好，尤其在承载能力上更加明显，蜗轮蜗杆减速机主要适用于塑料、冶金、饮料、矿山、起重运输、化工建筑等各种机械设备的减速传动。

WP worm gear reducer is developed on the basis of WD reducer. The worm gear is made of 45 # high-quality steel and processed by heat treatment. The worm gear is cast with tin bronze, which has good wear resistance, especially in terms of bearing capacity. The worm gear reducer is mainly suitable for deceleration transmission of various mechanical equipment such as plastics, metallurgy, beverages, mining, lifting and transportation, chemical construction, etc.

## 7、WP Worm Gear Reducer

### 产品结构图 Product structural drawing



### 型号及表示法 Model and strure table

W	P	W	E	D	K	A	50-80	600	B
1	2	3	4	5	6	7	8	9	10

<p>1 产品名称</p> <p>W—蜗杆减速机</p> <p>Product name</p> <p>W—worm speed reduce</p>	<p>2 箱体结构</p> <p>P—整体</p> <p>D—分体</p> <p>Box structure</p> <p>P—whole</p> <p>D—separate</p>	<p>3 箱体型式</p> <p>W—万能型</p> <p>无代码—基本型</p> <p>Box model</p> <p>W—universal</p> <p>Non-code—basic</p>	<p>4 整体结构</p> <p>E—双级</p> <p>EE—多级</p> <p>无代码—基本型</p> <p>Unit sture</p> <p>E—double</p> <p>EE—multistage</p> <p>Non-code—basic</p>	<p>5 输入轴联接方式</p> <p>D—带电机法兰</p> <p>无代码—基本型</p> <p>Connector of input shaft</p> <p>D—with motor frange</p> <p>Non-code—basic</p>
<p>6 输出轴结构</p> <p>K—中空输出轴</p> <p>无代码—基本型</p> <p>Structure of output shaft</p> <p>K—hollow</p> <p>Non-code—basic</p>	<p>7 输出、输入轴置式</p> <p>A—入轴在下 S—入轴在上</p> <p>O—出轴向上 X—出轴向下</p> <p>T—入轴向上 V—入轴向下</p> <p>无代码—基本型</p> <p>Arrangment of inputoroutput shaft</p> <p>A—input shaft is below</p> <p>S—input shaft is above</p> <p>O—output shaft is upward</p> <p>X—output shaft is downward</p> <p>T—input shaft is upward</p> <p>V—input shaft is downward</p> <p>Non-code—universal</p>	<p>8 中心距</p> <p>50-80</p> <p>Center distance</p> <p>50-80</p>	<p>9 传动比</p> <p>600</p> <p>Ratio</p> <p>600</p>	<p>10 轴指向</p> <p>B</p> <p>Shaft direction</p> <p>B</p>

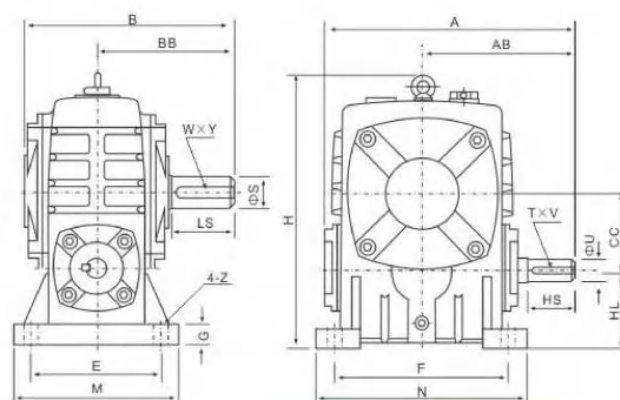
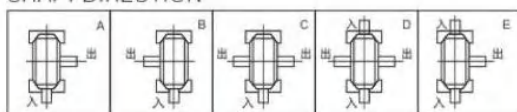


# 7、WP Worm Gear Reducer

## WPA 型



轴指向表示  
SHAFT DIRECTION

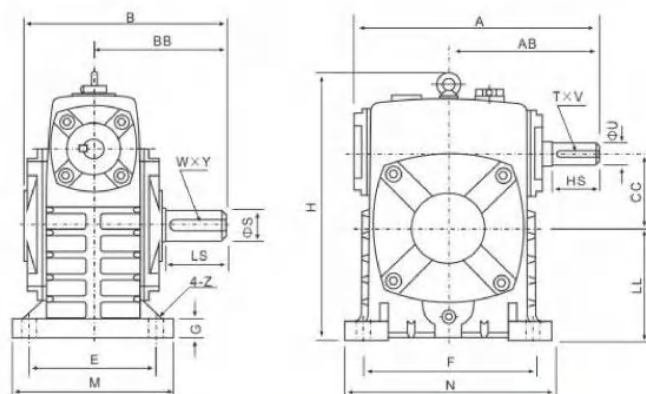
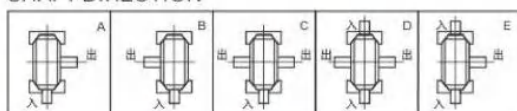


型号 size	传动比 ratio	A	AB	B	BB	CC	H	HL	M	N	E	F	G	Z	输入轴input shaft			输出轴output shaft			重量 (kg)	油量 (L)
															HS	U	T×V	LS	S	W×Y		
40	5	143	87	114	74	40	138	40	90	100	70	80	13	10	25	12	4×2.5	28	14	5×3	4	0.13
50		175	107	150	97	50	173	50	120	140	95	110	15	12	30	12	4×2.5	40	17	5×3	7	0.17
60		198	122	168	112	60	204	60	130	150	105	120	20	12	40	15	5×3	50	22	6×3.5	10	0.22
70		231	140	194	131	70	236	70	150	190	115	150	20	15	40	18	6×3.5	60	28	8×4	15	0.60
80		261	160	214	142	80	268	80	170	220	135	180	20	15	50	22	6×3.5	65	32	10×5	20	0.85
100	10	322	190	254	169	100	329	100	190	270	155	220	25	15	50	25	8×4	75	38	10×5	35	1.50
120		381	229	282	190	120	430	120	230	320	180	260	30	18	65	30	8×4	85	45	14×5.5	60	3.20
135		433	260	317	210	135	480	135	250	350	200	290	30	18	75	35	10×5	95	55	16×6	80	3.60
147		439	264	324	212	147	501	123	250	350	200	280	32	18	80	35	10×5	95	55	16×6	90	3.70
155		504	302	382	252	155	531	135	275	390	220	320	35	21	85	40	12×5	110	60	18×7	110	3.80
175	20	545	325	402	262	175	600	160	310	430	250	350	40	21	85	45	14×5.5	110	65	18×7	150	4.60
200		587	350	467	305	200	667	175	360	480	290	390	40	24	95	50	14×5.5	125	70	20×7.5	215	6.50
250		705	420	552	360	250	800	200	460	560	380	480	45	28	110	60	18×7	155	90	25×9	360	9.00

## WPS 型



轴指向表示  
SHAFT DIRECTION



型号 size	传动比 ratio	A	AB	B	BB	CC	H	LL	M	N	E	F	G	Z	输入轴input shaft			输出轴output shaft			重量 (kg)	油量 (L)
															HS	U	T×V	LS	S	W×Y		
40	5	143	87	114	74	40	141	60	90	100	70	80	13	10	25	12	4×2.5	28	14	5×3	4	0.30
50		175	107	150	97	50	180	80	120	140	95	110	15	12	30	12	4×2.5	40	17	5×3	7	0.45
60		198	122	168	112	60	207	90	130	150	105	120	20	12	40	15	5×3	50	22	6×3.5	10	0.55
70		231	140	194	131	70	238	105	150	190	115	150	20	15	40	18	6×3.5	60	28	8×4	15	0.80
80		261	160	214	142	80	270	120	170	220	135	180	20	15	50	22	6×3.5	65	32	10×5	20	1.10
100	10	322	190	254	169	100	331	150	190	270	155	220	25	15	50	25	8×4	75	38	10×5	35	2.90
120		381	229	282	190	120	423	180	230	320	180	260	30	18	65	30	8×4	85	45	14×5.5	60	4.40
135		433	260	317	210	135	482	215	250	350	200	290	30	18	75	35	10×5	95	55	16×6	80	6.20
147		439	264	324	212	147	495	203	250	350	200	280	32	18	80	35	10×5	95	55	16×6	90	6.35
155		504	302	382	252	155	541	235	275	390	220	320	35	21	85	40	12×5	110	60	18×7	110	6.50
175	20	545	325	402	262	175	594	260	310	430	250	350	40	21	85	45	14×5.5	110	65	18×7	150	8.00
200		587	350	467	305	200	677	290	360	480	290	390	40	24	95	50	14×5.5	125	70	20×7.5	215	9.30
250		705	420	552	360	250	824	350	460	560	380	480	45	28	110	60	18×7	155	90	25×9	360	18.0

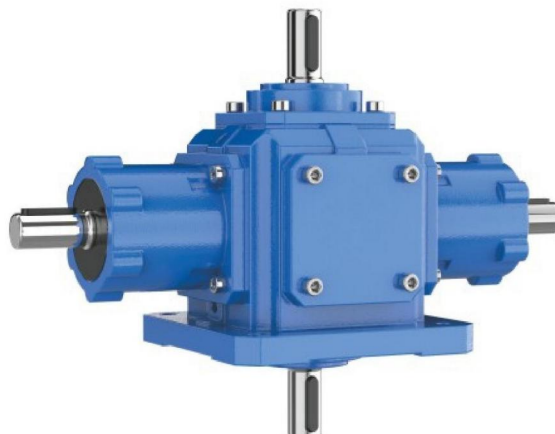
## 8、T-helical Gear Steering Gear

### 产品图片 Product images



## T系列螺旋锥齿轮传动箱

T Series spiral bevel gearbox



1.1 T系列一级螺旋锥齿轮传动箱，标准化，多品种，速比1:1、1.5:1、2:1、2.5:1、3:1、4:1、5:1全部为实际传动比。平均效率98%。

1.2 有单轴、双横轴、单纵横、双纵轴可选。

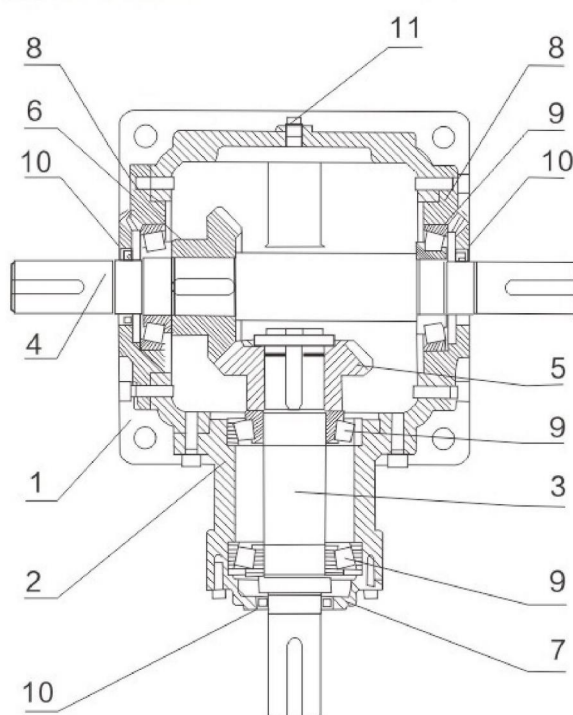
1.3 螺旋锥齿轮可以运转，低速或高速传动平稳，而且噪声低，振动小，承受力大。

1.1 T series spiral bevel gearbox, production standardization, multi-viety, Ratio of 1:1、1.5:1、2:1、2.5:1、3:1、4:1 and 5:1, they are normal Ratio. Average efficienly 98%.

1.2 There are one input shaft, two input shafts, unilatoral output shaft and Double side output shaft.

1.3 Spiral bivel gear are both position and reverse rotation lows sp Nuodun or hight sp Nuodun operate stably and noise low, vibra tion Gently carrying larger force.

## T系列结构图 T series structure drawing

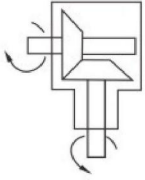
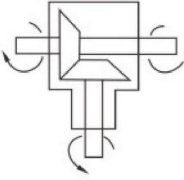
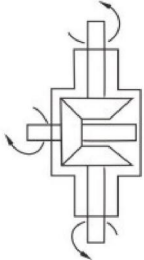
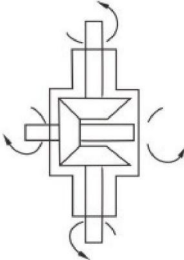


1、机座	Housing
2、横轴座	Housing of input shaft
3、横 轴	Input shaft
4、纵轴	Output shaft
5、横轴锥齿轮	Drive spiral bevel gear
6、纵轴锥齿轮	Drive sporal bevel gear
7、端盖	Bearing seat of input shaft
8、端盖	Bearing seat of input shaft
9、轴承	Bearing
10、油封	Oil Seal
11、油镜	Oil gauge



## 8、T-helical Gear Steering Gear

### 转向功能 Function of rotation

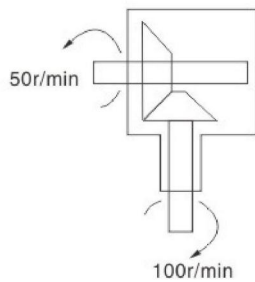
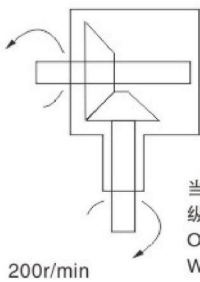
1 横轴 Input shaft		2 横轴 Input shaft	
2轴2-extended shaft	3轴3-extended shaft	3轴3-extended shaft	4轴4-extended shaft
			

说明：当输入轴旋转方向改变，输出轴相应改变。

Specification: Direction of rotation of output shaft varies with that of input shaft.

### 选定输入轴时应注意转速关系:(1:1传动比时无关系)

Pay attention to the ratio when fixing the input side (there is nothing in case of ratio of 1:1)

[减速 Reducer]	[增速 Multiplier]
 <p>当横轴输入100r/min时 纵横输出50r/min Output speed is 50rpm, When input speed is 100rpm</p>	 <p>当横轴输入100r/min时 纵横输出200r/min Output speed is 200rpm, When input speed is 100rpm</p>

### 型号表示方法 T series model notes

<b>T</b>	<b>06</b>	<b>1:1</b>	<b>I-LR</b>	<b>B</b>
1	2	3	4	5
<b>1</b> 产品代码 Product Code  T—螺旋锥齿轮传动箱 T—spiral bevel gearbox	<b>2</b> 机座号 Size of gear units	<b>3</b> 速比 ratio 增速: 1:2 减速: 2:1 Multiplier: 1:2 Reducer: 2:1	<b>4</b> 轴配置 Shaft arrangement	<b>5</b> 安装方法 Mounting position

## 8、T-helical Gear Steering Gear

T系列重量表 T series Weight table

Type	T2	T4	T6	T7	T8	T10	T12	T16	T20	T25
m(kg)	2	10	21	32	49	78	124	188	297	488

T系列Fr(N)表 T series Fr(N) table

iN	n1 (r/min)	T2		T4		T6		T7		T8		T10		T12		T16		T20		T25	
		横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴	横轴	纵轴
1:1	1450	265	216	833	951	1911	2450	2450	3136	3234	3381	4165	4508	5096	5586	10633	10976				
	1150	323	235	882	1029	2058	2597	2744	3234	3479	3626	4459	4851	5488	6076	11368	11760	15386	15608		
	870	402	255	960	1127	2205	2842	2989	3381	3773	3969	4851	5292	5880	6566	12446	12740	16660	17150	24794	25480
	580	549	314	1078	1323	2499	3185	3381	3822	4263	4459	5488	5880	6713	7301	14014	14504	18816	19404	28028	28910
	400	637	353	1372	1715	3185	3528	4018	4900	4851	5978	6272	7056	7742	8134	15680	16170	21070	21756	31360	32340
	300	696	392	1519	1960	3430	3528	4410	5537	5243	6958	6713	7987	8232	9065	17150	17640	23422	24108	34300	35280
	200	784	441	1911	1960	3430	3528	5096	6272	7889	8820	8575	9604	9261	10290	19600	19894	25970	26754	38612	39788
	100	980	588	1911	1960	3430	3528	5096	6272	8428	8820	9996	11760	11368	12593	22540	22540	28420	32928	39200	49000
	10	980	588	1911	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	22540	22540	28420	33320	39200	49000
1.5:1	1450			1078	1960	2548	2842	3430	5390	4361	7987	5194	9212	5978	10486	5978	12152	7630	14602		
	1150			1078	1960	3038	3087	4067	5978	5096	8820	6174	10486	7252	12152	6419	13083	8771	17934	12985	24647
	870			1078	1960	3430	3332	4753	6076	6076	8820	7448	11760	8869	14504	6958	14210	9506	19453	13573	29400
	580			1078	1960	3430	3528	5096	6174	7644	8820	9555	11760	11466	14504	7840	16072	10780	22001	15680	33222
	400			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	8820	17934	12005	24598	17542	37142
	300			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	9604	19600	13132	27342	19159	40474
	200			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	10829	22148	14798	30282	21658	45766
	100			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	13328	22540	18228	33320	26656	49000
	10			1078	1960	3430	3528	5096	6272	8428	8820	9996	11760	11858	14504	22540	22540	28420	33320	39200	49000

备注：各规格更低的输出转速按以上最大的Fr值。

Notes: If there is lower output speed, please choose the maximum Fr in the above table.

## 9、UDL Continuously Variable Transmission

### 产品图片 Product images



**UDL..B3**



**UDL..B5**

### 无级变速器简介 Introduction to Continuously Variable Transmission

UDL 系列无级变速器的设计，融合了国内外的先进技术，产品有以下主要特点：

1. 调速精度高：达0.5-1转。
2. 变速范围大，输出速比可在1:1.4至1:7之间任意变化。
3. 强度高，寿命长。
4. 调速方便。
5. 可持续工作运转，且可正反方向运转，运转平稳，性能稳定，噪音低。
6. 全密封，对环境要求低。
7. 机构紧凑，体积小。
8. 采用优质铝合金压铸成型，外形美观，重量轻，永不生锈。
9. 适应性好。UDL 系列无级变速器可与各种减速机组合，实现低速无级变速。

UDL 系列无级变速器可广泛用于食品、包装、化工、制药、塑料、造纸、机床、交通以及各种需高速的自动生产线、输送线、装配流水线，是您机器上理想的伙伴。

The design of UDL series stepless speed variator compromises the advanced technology both at home and abroad. The products include the following main characteristics:

1. High speed-regulating precision: up to 0.58-1 rotation.
2. Large speed-changing range: The speed ratio ranges from 1:1.4 to 1:7 freely.
3. High in strength and long in service life.
4. Convenient to regulate the speed.
5. Continuous in running, front-to-back in running direction, smooth in driving, stable in performance and low in noise.
6. Full in sealing and suitable for any environment.
7. Compact in structure and small in volume.
8. Made of high-quality aluminium alloy diecast into forming, good-looking in appearance, light in weight and it never gets rusty.
9. Good in adaptataion: UDL series stepless speed variators can be combined with all kinds of speed reducers, as to achieve low stepless speed-changing.

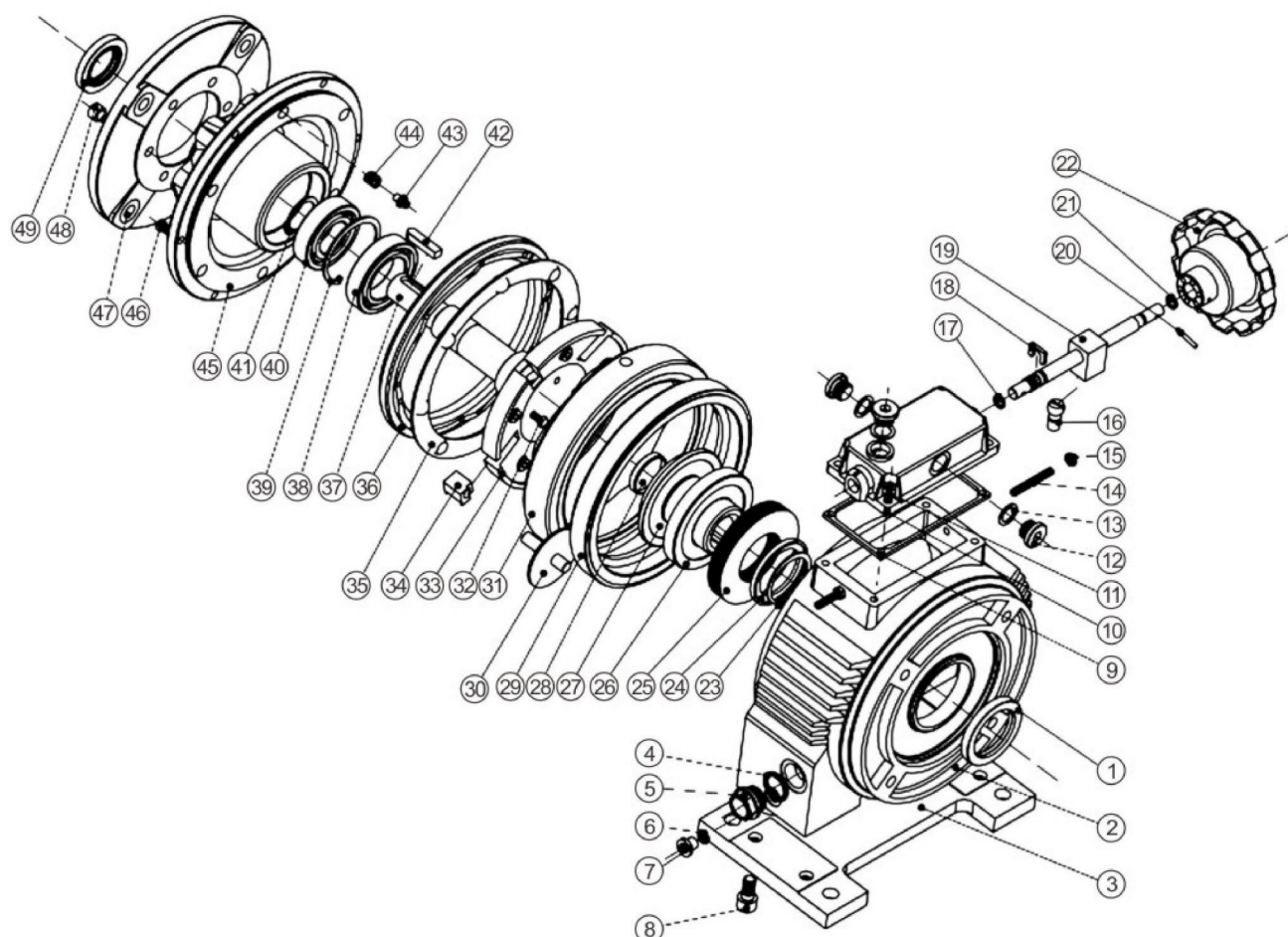
UDL series stepless speed variators are widely used for foodstuffs, ceramics, packing, chemicals, pharmacy, plastics, paper-making, machine-tools, communications, and all kinds of automatic lines, pipelines and assembly lines which need speed-regulation. It is a good companion for your production.



## 9、UDL Continuously Variable Transmission

### UDL无级变速器爆炸视图及名称

UDL continuously variable transmission explosion view and name



1. 油封 Oil seal
2. 箱体 Variator casing
3. 底脚 Foot
4. O型圈 O-ring
5. 油镜 Oil level plug
6. O型圈 O-ring
7. 油塞 Oil drain plug
8. 内六角螺钉 Inner hex screw
9. 操作盒垫片 control cover seal
10. 操作盒 control cover
11. 内六角螺钉 Inner hex screw
12. 油塞 Oil drain plug
13. O型圈 O-ring
14. 限位螺丝 Limit screw
15. 螺母 Slotted head nut
16. 球头螺丝 Ball head screw
17. O型圈 O-ring

18. 挡圈 Circlip
19. 操作块 Control block
20. 弹性销 Stitch pin
21. O型圈 O-ring
22. 手轮 Handwheel
23. 挡圈 Circlip
24. 碟簧挡圈 Spring holder ring
25. 碟型弹簧 Belleville spring
26. 太阳轮片 Sun wheel piece
27. 太阳轮 Sun wheel
28. 堵盖 Black cover
29. 固定轨 Fixed orbit
30. 行星轮 Planet disk
31. 滑动轨 Glide orbit
32. 六角头螺丝 Hexagon head screw
33. 行星架 Planet carrier
34. 滑块 Glide block

35. 钢球环 Ball ring holder
36. 调整轨 Adjustable orbit
37. 输出轴 Output shaft
38. 轴承 Bearing
39. 挡圈 Circlip
40. 轴承 Bearing
41. 挡圈 Circlip
42. 平键 Key
43. 圆柱销 Columnar pin
44. 弹簧 Spring
45. 输出端盖 Output cover
46. 内六角螺钉 Inner hex screw
47. 输出法兰 Output flange
48. 内六角螺钉 Inner hex screw
49. 油封 Oil seal

## 9、UDL Continuously Variable Transmission

## 型号说明 Model illuminate

无级变速器 / Stepless speed variator

<b>UD</b>	<b>L</b>	<b>0.75</b>	<b>B5</b>	<b>B5</b>
└─┘	└─┘	└─┘	└─┘	└─┘
①	②	③	④	⑤

No	说 明	Comments
1	无级变速器代号	Code of stepless speed variator
2	1). L : 铝合金机壳 2). 不标注时为铸铁机壳	1). L : Aluminium alloy casing 2). No mark means cast iron casing
3	电机功率	Motor power
4	1). B3 : 底脚安装机型 2). B5 : 法兰安装机型	1). B3 : Foot-mounted model 2). B5 : Flange-mounted model
5	安装方位代号	Code of installation positon

无级变速器与齿轮减速器组合 / Combination of stepless speed variator and gear speed reducer

<b>UDL</b>	<b>0.75</b>	<b>C</b>	<b>B5</b>	<b>B5</b>
└─┘	└─┘	└─┘	└─┘	└─┘
①	③	②	④	⑤

No	说 明	Comments
1	铝合金机壳无级变速器代号	Code of stepless speed variator with aluminium alloy casing
2	电机功率	Motor power
3	齿轮减速器代号	Code of gear reducer
4	1). B3 : 底脚安装机型 2). B5 : 法兰安装机型	1). B3 : Foot-mounted model 2). B5 : Flange-mounted model
5	安装方位代号	Code of installation positon

## 9、UDL Continuously Variable Transmission

## 性能参数 Performance parameter

UDL系列无级变速器性能参数 / Performance table for udl series speed variator

(n<sub>1</sub>=140 r/min)

	型号 Model	i	n <sub>2</sub> [r/min]	M <sub>2</sub> [Nm]
0.18KW	<b>UDL0.18</b>	1.6 ~ 8.2	880 ~ 170	1.5 ~ 3
0.37KW	<b>UDL0.37</b>	1.4 ~ 7	1000 ~ 200	3 ~ 6
0.55KW	<b>UDL0.55</b>	1.4 ~ 7	1000 ~ 200	4 ~ 8
0.75KW	<b>UDL0.75</b>	1.4 ~ 7	1000 ~ 200	6 ~ 12
1.1KW	<b>UDL1.1(UD1.1)</b>	1.4 ~ 7	1000 ~ 200	9 ~ 18
1.5KW	<b>UD1.5</b>	1.4 ~ 7	1000 ~ 200	12 ~ 24
2.2KW	<b>UD2.2</b>	1.4 ~ 7	1000 ~ 200	18 ~ 36
3.0KW	<b>UD3.0</b>	1.4 ~ 7	1000 ~ 200	24 ~ 48
4.0KW	<b>UD4.0</b>	1.4 ~ 7	1000 ~ 200	32 ~ 64
5.5KW	<b>UD5.5</b>	1.4 ~ 7	1000 ~ 200	45 ~ 90
7.5KW	<b>UD7.5</b>	1.4 ~ 7	1000 ~ 200	59 ~ 118

无级变速器与齿轮减速器组合性能参数 / Performance table for stepless speed variator &amp; gear speed reducer

(n<sub>1</sub>=140 r/min)

型号 Model	i	n <sub>2</sub> [r/min]	M <sub>2</sub> [Nm]
<b>UDL0.18-CB3</b>	5	176 ~ 34	7 ~ 15
<b>UDL0.37-CB3</b>	5	200 ~ 40	15 ~ 30
<b>UDL0.55-CB3</b>	5	200 ~ 40	30 ~ 60



## 10、Three Phase Asynchronous Motor

### 产品图片 Product images



**B5型 / B5 type**



**双轴型 / Dual axis type**



**方形B5 / Square B5**



**圆型B14 / Circular B14**



**圆型YVF2 / Circular YVF2**



**圆型Y2EJ / Circular Y2EJ**



**方形B3 / Square B3**



**方形YVF2 / Square YVF2**



**方形Y2EJ / Square Y2EJ**



**洗车房专用**  
Dedicated for car wash room



**齿轮专用**  
Gear specific

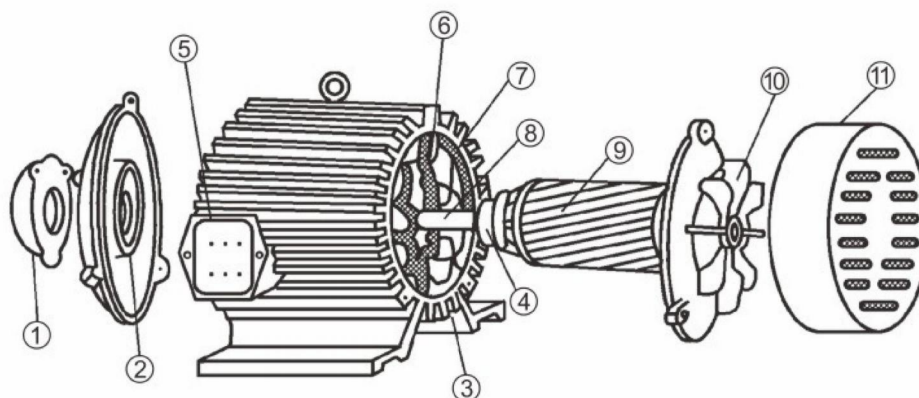


**齿轮专用**  
Gear specific

## 10、Three Phase Asynchronous Motor

## YE3三相异步电动机零件爆炸视图及名称

Explosion view and name of YE3 three-phase asynchronous motor parts



1. 轴承盖 Bearing cover
2. 端盖 End caps
3. 机座 Machine base
4. 轴承 Bearings
5. 接线盒 Junction box
6. 定子铁芯 Stator core

7. 定子绕组 Stator winding
8. 转轴 Rotating shaft
9. 转子 Rotor
10. 风扇 Fan
11. 罩壳 Cover shell

## 概述 Summary

作电动机运行的三相异步电机。三相异步电动机转子的转速低于旋转磁场的转速，转子绕组因与磁场间存在着相对运动而产生电动势和电流，并与磁场相互作用产生电磁转矩，实现能量变换。

与单相异步电动机相比，三相异步电动机运行性能好，并可节省各种材料。按转子结构的不同，三相异步电动机可分为笼式和绕线式两种。笼式转子的异步电动机结构简单、运行可靠、重量轻、价格便宜，得到了广泛的应用，其主要缺点是调速困难。绕线式三相异步电动机的转子和定子一样也设置了三相绕组并通过滑环、电刷与外部变阻器连接。调节变阻器电阻可以改善电动机的起动性能和调节电动机的转速。

A three-phase asynchronous motor that operates as an electric motor. The speed of the rotor of a three-phase asynchronous motor is lower than that of the rotating magnetic field. The rotor winding generates electromotive force and current due to relative motion with the magnetic field, and interacts with the magnetic field to produce electromagnetic torque, achieving energy conversion.

Compared with single-phase asynchronous motors, three-phase asynchronous motors have better operating performance and can save various materials. According to the different rotor structures, three-phase asynchronous motors can be divided into cage type and wound type. The asynchronous motor with cage rotor has a simple structure, reliable operation, light weight, and low price, and has been widely used. Its main disadvantage is the difficulty in speed regulation. The rotor and stator of a wound three-phase asynchronous motor are also equipped with three-phase windings and connected to external resistors through slip rings and brushes. Adjusting the resistance of the variable resistor can improve the starting performance of the motor and regulate its speed.

## 10、Three Phase Asynchronous Motor

## YE3技术参数 Technical data

型号 Type	额定功率 Rated Output		额定 转速 Rated Speed rpm	效率 Efficiency $\eta$ % (IE3)	效率 75%负载 Efficiency at 75% Load	效率 50%负载 Efficiency at 50% Load	功率 因数 Power factor $\cos \phi$	额定电流 Rated current A			额定 转矩 Rated Torque Nm	堵转转矩/ 额定转矩 $T_s/T_n$	最大转矩/ 额定转矩 $T_{max}/T_n$	堵转电流/ 额定电流 $I_s/I_n$
	KW	HP						380V	400V	415V				
YE3-631-4	0.12	0.18	1320	64.8	64.8	63.5	0.72	0.39	0.37	0.36	0.87	2.1	2.2	4.4
YE3-632-4	0.18	0.25	1320	69.9	69.9	68.5	0.73	0.54	0.51	0.49	1.30	2.1	2.2	4.4
YE3-711-4	0.25	0.37	1340	73.5	73.5	72.0	0.74	0.70	0.66	0.64	1.78	2.1	2.2	5.2
YE3-712-4	0.37	0.5	1340	77.3	77.3	75.8	0.75	0.97	0.92	0.89	2.64	2.1	2.2	5.2
YE3-801-4	0.55	0.75	1400	80.8	80.8	79.2	0.75	1.38	1.31	1.26	3.75	2.4	2.3	5.2
YE3-802-4	0.75	1	1420	82.5	82.5	80.9	0.75	1.84	1.75	1.69	5.04	2.3	2.3	6.6
YE3-90S-4	1.1	1.5	1445	84.1	84.1	82.4	0.76	2.61	2.48	2.39	7.27	2.3	2.3	6.8
YE3-90L-4	1.5	2	1445	85.3	85.3	83.6	0.77	3.47	3.3	3.18	9.91	2.3	2.3	7.0
YE3-100L1-4	2.2	3	1450	86.7	86.7	85.0	0.81	4.76	4.52	4.36	14.6	2.3	2.3	7.6
YE3-100L2-4	3	4	1450	87.7	87.7	85.9	0.82	6.34	6.02	5.8	20.0	2.3	2.3	7.6
YE3-112M-4	4	5.5	1450	88.6	88.6	86.8	0.82	8.37	7.95	7.66	26.5	2.2	2.3	7.8
YE3-132S-4	5.5	7.5	1460	89.6	89.6	87.8	0.83	11.2	10.7	10.3	36.0	2.0	2.3	7.9
YE3-132M-4	7.5	10	1460	90.4	90.4	88.6	0.84	15.0	14.3	13.7	49.1	2.0	2.3	7.5
YE3-160M-4	11	15	1465	91.4	91.4	89.6	0.85	21.5	20.4	19.7	71.7	2.2	2.3	7.7
YE3-160L-4	15	20	1465	92.1	92.1	90.3	0.86	28.8	27.3	26.3	97.8	2.2	2.3	7.8
YE3-180M-4	18.5	25	1470	92.6	92.6	90.7	0.86	35.3	33.5	32.3	120.2	2.0	2.3	7.8
YE3-180L-4	22	30	1470	93.0	93.0	91.1	0.86	41.8	39.7	38.3	142.9	2.0	2.3	7.8
YE3-200L-4	30	40	1475	93.6	93.6	91.7	0.86	56.6	53.8	51.8	194.2	2.0	2.3	7.3
YE3-225S-4	37	50	1485	93.9	93.9	92.0	0.86	69.6	66.1	63.7	237.9	2.0	2.3	7.4
YE3-225M-4	45	60	1485	94.2	94.2	92.3	0.86	84.4	80.2	77.3	289.4	2.0	2.3	7.4
YE3-250M-4	55	75	1485	94.6	94.6	92.7	0.86	103	97.6	94.1	353.7	2.2	2.3	7.4
YE3-280S-4	75	100	1486	95.0	95.0	93.1	0.88	136	129	125	482.0	2.0	2.3	6.9
YE3-280M-4	90	125	1486	95.2	95.2	93.3	0.88	163	155	149	578.4	2.0	2.3	6.9
YE3-315S-4	110	150	1488	95.4	95.4	93.5	0.89	197	187	180	706.0	2.0	2.2	7.0
YE3-315M-4	132	180	1488	95.6	95.6	93.7	0.89	236	224	216	847.2	2.0	2.2	7.0
YE3-315L1-4	160	200	1488	95.8	95.8	93.9	0.89	285	271	261	1027	2.0	2.2	7.1
YE3-315L2-4	200	270	1490	96.0	96.0	94.1	0.90	352	334	322	1282	2.0	2.2	7.1
YE3-355M-4	250	340	1490	96.0	96.0	94.1	0.90	440	418	403	1602	2.0	2.2	7.1
YE3-355L-4	315	430	1490	96.0	96.0	94.1	0.90	554	526	507	2019	2.0	2.2	7.1



## 10、Three Phase Asynchronous Motor

## Y2EJ技术参数 Technical data

型号 Type	额定功率 Output power		满载时 Full loaded				空载 振动 unloaded vibration (mm/s)	空载 噪声 unloaded Noise dB(A)	堵转电流	堵转转矩	最大转矩	制动器静 制动力矩 Torgue of brake static braking(N.M)	空载时 制动时间 unloaded Braking time(s)
	(KW)	(HP)	异步 转速 Asynchronous Speed (r/min)	电流 Current (A)	效率 Eff (%)	功率 因数 Power factor (cos φ)			Locked rotor current Full load current (倍multiple)	Locked rotor torque Full load torque (倍multiple)	Max torque Full load torque (倍multiple)		
同步转速 1500r/min(4极)380V 50Hz Synchronous Speed 1500r/min(2P)380V 50HZ													
Y2EJ-71M1-4	0.25	0.34	1350	0.79	65	0.74	1.8	58	5.2	2.1	2.2	4.0	0.20
Y2EJ-71M2-4	0.37	0.5	1350	1.12	67	0.75	1.8	58	5.2	2.1	2.2	4.0	0.20
Y2EJ-80M1-4	0.55	0.75	1380	1.57	71	0.75	1.8	61	5.2	2.4	2.3	7.5	0.20
Y2EJ-80M2-4	0.75	1	1380	2.05	73	0.76	1.8	61	6.0	2.3	2.3	7.5	0.20
Y2EJ-90S-4	1.1	1.5	1390	2.8	76.2	0.77	1.8	67	6.0	2.3	2.3	15	0.20
Y2EJ-90L-4	1.5	2	1390	3.7	78.5	0.79	1.8	67	6.0	2.3	2.3	15	0.20
Y2EJ-100L1-4	2.2	3	1410	5.1	81	0.81	1.8	70	7.0	2.3	2.3	30	0.20
Y2EJ-100L2-4	3	4	1410	6.7	82.6	0.82	1.8	70	7.0	2.3	2.3	30	0.20
Y2EJ-112M-4	4	5.5	1440	8.8	84.2	0.82	1.8	74	7.0	2.3	2.3	40	0.25
Y2EJ-132S-4	5.5	7.5	1450	11.7	85.7	0.83	1.8	78	7.0	2.3	2.3	75	0.25
Y2EJ-132M-4	7.5	10	1450	15.6	87	0.84	1.8	78	7.0	2.3	2.3	75	0.25
Y2EJ-160M-4	11	15	1460	22.5	88.4	0.84	2.8	82	7.0	2.2	2.3	150	0.35
Y2EJ-160L-4	15	20	1460	30.0	89.4	0.85	2.8	82	7.0	2.2	2.3	150	0.35
Y2EJ-180M-4	18.5	25	1470	36.3	90	0.86	2.8	82	7.5	2.2	2.3	220	0.60
Y2EJ-180L-4	22	30	1470	42.9	90.5	0.86	2.8	82	7.5	2.2	2.3	300	0.70
Y2EJ-200L-4	30	40	1470	58	91.4	0.86	2.8	84	7.2	2.2	2.3	300	0.70
Y2EJ-225S-4	37	50	1480	70.2	92	0.87	3.5	81	7.2	2.2	2.3	450	0.80
Y2EJ-225M-4	45	60	1480	85	92.5	0.87	3.5	81	7.2	2.2	2.3	450	0.80
Y2EJ-250M-4	55	74	1480	103.3	93	0.87	3.5	92	7.2	2.2	2.3	600	0.8
Y2EJ-280S-4	75	100	1480	139.9	93.6	0.87	3.5	95	7.2	2.2	2.3	850	1.2
Y2EJ-280M-4	90	120	1480	167.4	93.9	0.87	3.5	95	7.2	2.2	2.3	850	1.2

## 10、Three Phase Asynchronous Motor

## YVF2技术参数 Technical data

额定电压：380V 频率：50HZ Rated Voltage: 380V Frequency: 50HZ

型号 Type	功率 kW	额定 电流 A	转速 r/min	效率 Eff %	功率 因数 P.F	额定 转矩 N.m	噪声 dB(A)	恒转矩调频范围 Constant Torque Frequency Range Hz	恒功率调频范围 Constant Output Frequency Range Hz
同步转速 1500r/min									
YVF2-80M1-4	0.55	1.57	1390	71.0	0.75	3.78	73	5-50	50-100
YVF2-80M2-4	0.75	2.05	1390	73.0	0.76	5.15	73		
YVF2-90S-4	1.1	2.85	1390	76.2	0.77	7.56	76		
YVF2-90L-4	1.5	3.68	1390	78.5	0.79	10.3	76		
YVF2-100L1-4	2.2	5.09	1410	81.0	0.81	14.9	79		
YVF2-100L2-4	3	6.73	1410	82.6	0.82	20.3	79		
YVF2-112M-4	4	8.80	1440	84.2	0.82	26.5	80		
YVF2-132S-4	5.5	11.7	1440	85.7	0.83	36.5	86		
YVF2-132M-4	7.5	15.6	1440	87.0	0.84	49.7	86		
YVF2-160M-4	11	22.5	1460	88.4	0.84	72.0	90		
YVF2-160L-4	15	30.0	1460	89.4	0.85	98.1	90		
YVF2-180M-4	18.5	36.3	1470	90.0	0.86	120	91		
YVF2-180L-4	22	42.9	1470	90.5	0.86	143	91		
YVF2-200L-4	30	58.0	1470	91.4	0.86	195	92		
YVF2-225S-4	37	70.2	1475	92.0	0.87	240	94		
YVF2-225M-4	45	85.0	1475	92.5	0.87	291	94		
YVF2-250M-4	55	103	1480	93.0	0.87	355	96		
YVF2-280S-4	75	140	1480	93.6	0.87	484	99		
YVF2-280M-4	90	167	1480	93.9	0.87	571	99		
YVF2-315S-4	110	201	1480	94.5	0.88	710	105		
YVF2-315M-4	132	240	1480	94.8	0.88	852	105		
YVF2-315L1-4	160	288	1480	94.9	0.89	1032	109		
YVF2-315L-4	185	333	1480	94.9	0.89	1194	109		
YVF2-315L2-4	200	360	1480	94.9	0.89	1291	109		
YVF2-315L3-4	220	396	1480	94.9	0.89	1420	109		
YVF2-355M1-4	220	396	1490	94.9	0.89	1410	111		
YVF2-355M-4	250	444	1490	95.1	0.90	1602	111		
YVF2-355L1-4	280	497	1490	95.1	0.90	1795	113		
YVF2-355L-4	315	559	1490	95.1	0.90	2019	113		
YVF2-355L2-4	355	630	1490	95.1	0.90	2275	113		
YVF2-355L3-4	375	666	1490	95.1	0.90	2404	113		

## 10、Three Phase Asynchronous Motor



### YE1 / YE2 系列三相异步电机

YE1 / YE2 series of three-phase asynchronous motor

YE1/YE2系列三相异步电机，具有高效，节能，低振动，低噪音，性能可靠，安装维护方便等特点。可用于压缩机，风机，水泵，破碎机等机械设备，及在石油，化工，医药，矿山及其它环境条件比较恶劣的场合作动力源使用。

YE1 / YE2 series three-phase asynchronous motor, with high efficiency, energy saving, low vibration, low noise, reliable performance, convenient installation and maintenance characteristics. It can be used for compressor, fan, water pump, crusher and other mechanical equipment, and in petroleum, chemical, pharmaceutical, mine and other harsh environmental conditions of the field cooperative power source use.

### YE3 / YE4 / YE5 系列高效/超高效三相异步电机

YE3 / YE4 / YE5 series of highly efficient / ultra-efficient three-phase induction motor

YE3 / YE4 / YE5 系列高效/超高效三相异步电机:是在我国于2020年颁布实施了电机强制性能效标准GB18613-2020《中小型电动机能效限定值及能效等级》的基础上，更为适应国内外市场的需要而研发生产的系列高效/超高效三相异步电机。其效率符合GB18613-2020 / IEC60034-30 能效要求。

YE3 / YE4 / YE5 series efficient / ultra-efficient three-phase asynchronous motor: it is a series of efficient / ultra-efficient three-phase asynchronous motor developed and produced on the basis of the energy efficiency Limit Value and Energy Efficiency Grade of Small and medium-sized motors to meet the needs of domestic and foreign markets. Its efficiency meets the energy efficiency requirements of GB18613-2020 / IEC60034-30.



## 10、Three Phase Asynchronous Motor

### YS(JW)系列三相感应异步电动机

YS (JW) series three-phase induction asynchronous motor



功率60W~750W，JW系列三相异步电动机是一种按照国家微型电机标准设计制造的电动机。它具有噪声低、体积小、重量轻、外观美观、起动性能好、运行可靠和维护方便等特点。采用B级绝缘，外壳防护等级为IP44，冷却方式为IC411，额定电压为380V，额定频率为50Hz。它广泛应用于钻床、小型机床、医疗器械、风机和各种机械设备等领域。

JW series three-phase asynchronous motor is a motor designed and manufactured according to the national standard of micro motor. The rated power is from 60W to 750W, the advantages are with low noise, small volume, light weight, beautiful appearance, good starting performance, reliable operation and convenient maintenance. Insulation class is B, IP44, cooling way is IC411, rated voltage of 380V-50Hz. It is widely used in drilling machines, small machine tools, medical instruments, fans, and various mechanical equipment fields.

# 減速電機

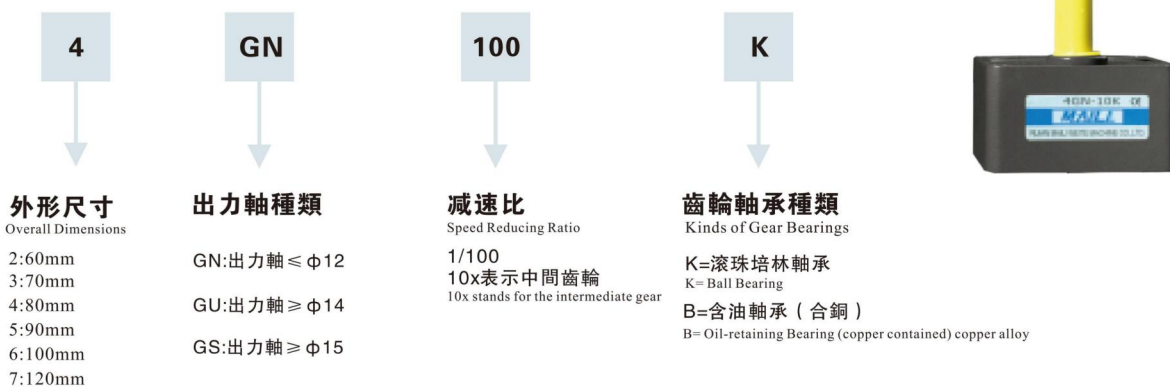
## 交流馬達型號之選定

The selection for AC motor and gear

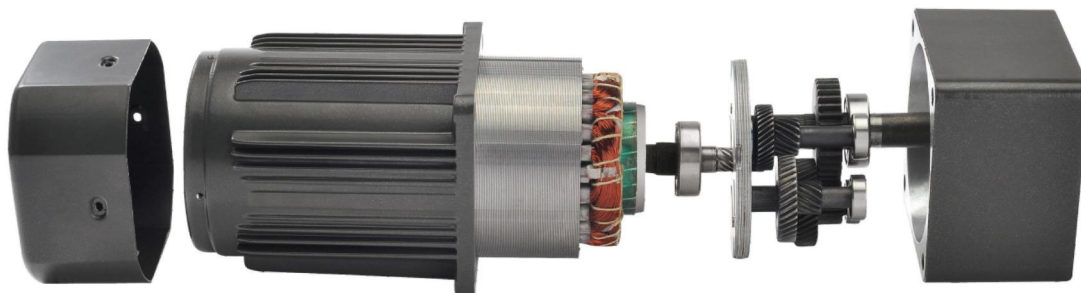


## 齒輪型號之選定

The selection for AC motor



## MODULAR COMBINED SYSTEM:



## 11、Reduction Motor





# 减速电机

## 交流马达型号之选定

The selection for AC motor and gear

4	R	K	25	GN	A	
<b>外形尺寸</b> Overall Dimensions	<b>機種</b> Kinds	<b>馬達系列</b> Motor Series	<b>出力</b> Output Force	<b>馬達軸形狀</b> Motor Axis Shape	<b>電壓極數</b> Voltage Poles	<b>其它附件</b> Other Accessories
4:80mm 5:90mm 6:100mm 8:145mm	I:感應式 R:可逆式 T:轉矩馬達	I: Inductive R: Reversible T: Torque Motor	25=25W 30=30W 40=40W 60=60W 90=90W 120=120W 140=140W 160=160W 180=180W 200=200W 250=250W 400=400W 750=750W 1500=1500W	GN螺旋齒軸 (25W~40W馬達) GN Spiral Toothing Axis (25W~40W moter)  GU螺旋齒軸 (60W~250W馬達) GU Spiral Toothing Axis (60W~250W moter)	A=1 $\phi$ 110V4P B=1 $\phi$ 110V2P C=1 $\phi$ 220V4P D=1 $\phi$ 220V2P S=3 $\phi$ 220V4P U=3 $\phi$ 380V4P W=3 $\phi$ 440V4P Y=3 $\phi$ 220/380V4P Z=3 $\phi$ 220/440V4P H=3 $\phi$ 380V2P L=480V 4P	F:風扇 F: Fan M:電磁剎車 M: Electromagnetic Brake Z:機械阻尼 Z: mechanical damping T:接線盒 T: Terminal Box P:溫度開關 P: Temperature Switch



馬達軸形狀前加R為調速馬達  
Plus "R" before the axis shape of the motor stands for the speed regulation motor

## 齒輪型號之選定

The selection for AC motor

4	GU	100	RC	K
<b>外形尺寸</b> Overall Dimensions	<b>出力軸種類</b>	<b>減速比</b> Speed Reducing Ratio	<b>出力軸種類</b> Type of output shaft	<b>齒輪軸承種類</b> Kinds of Gear Bearings
4:80mm 5:90mm 6:100mm 8:145mm	GN:出力軸 $\leq \phi 12$ GU:出力軸 $\geq \phi 14$		RC:中空軸 RC:Hollow shaft RT:中實軸 RT:In the real axis	K=滾珠培林軸承 K= Ball Bearing



## 11、Reduction Motor

## 減速電機

CH	18	400	30	SZ	B	G1	LB
↓	↓	↓	↓	↓	↓	↓	↓
機型代號 Model code	出力軸直徑 Output shaft dia	馬力 Horsepower	減速比 Speed reducing ration	電壓極速 Top speed of voltage	附件 Accessory	入綫口方向 WIRE INLET	
CH:臥式 CH: horizontal	18	100W	1:3...1:1800	A=1 φ 110V4P	B : DC90V安全剎車器 BRAKE UNIT YB : 手釋放剎車器 WITH RELEASE BRAKE UNIT D : DC24V送電剎車器 DC24V BRAKE	T: 向上 TOP D: 向下 DOWN	F: 向前 FORWARD
CV:立式 CV: vertical	22	200W		C=1 φ 220V4P			
	28	400W		S=3 φ 220V4P			
	32	550W		U=3 φ 380V4P			
	40	750W		W=3 φ 440V4P	依出力軸看配綫盒方向 VIEW FROM OUTPUT SHAFT	G1: 左方向(標準型) LEFT (STD) G2: 右方向 RIGHT G3: 上方向 UPPER G4: 下方向 LOWER	B: 向後 BACK L: 向左 LEFT R: 向右 RIGHT
	50	1100W		Y=3 φ 220~240/ 380~440V4P			
		1500W		Z= 縮框型減速電機 light type duty			
		2200W					
		3700W					





## XG系列/ XG SERIES

### 1、设计特点 DESIGN CHARACTERISTICS

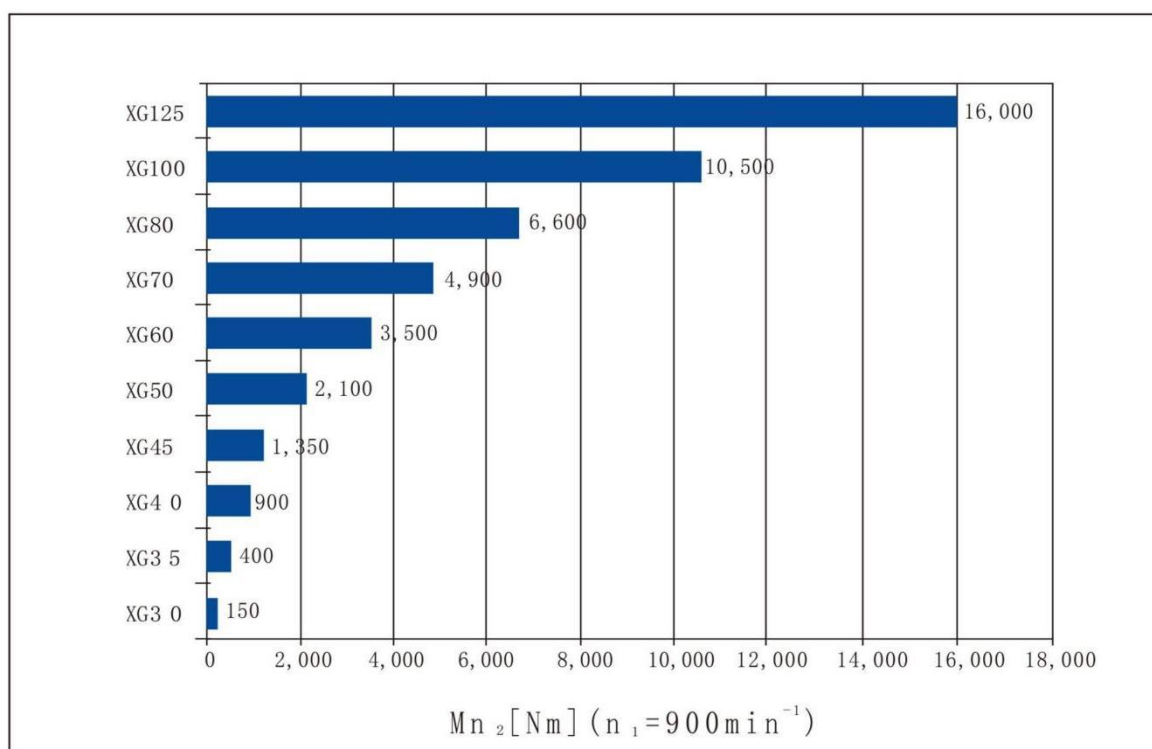
主要的设计特点如下:

- 1) 全部采用低碳合金钢渗碳处理
- 2) 齿轮及齿轮轴精度高
- 3) 体积小、扭矩大

(A1)

The characteristics are as follows:

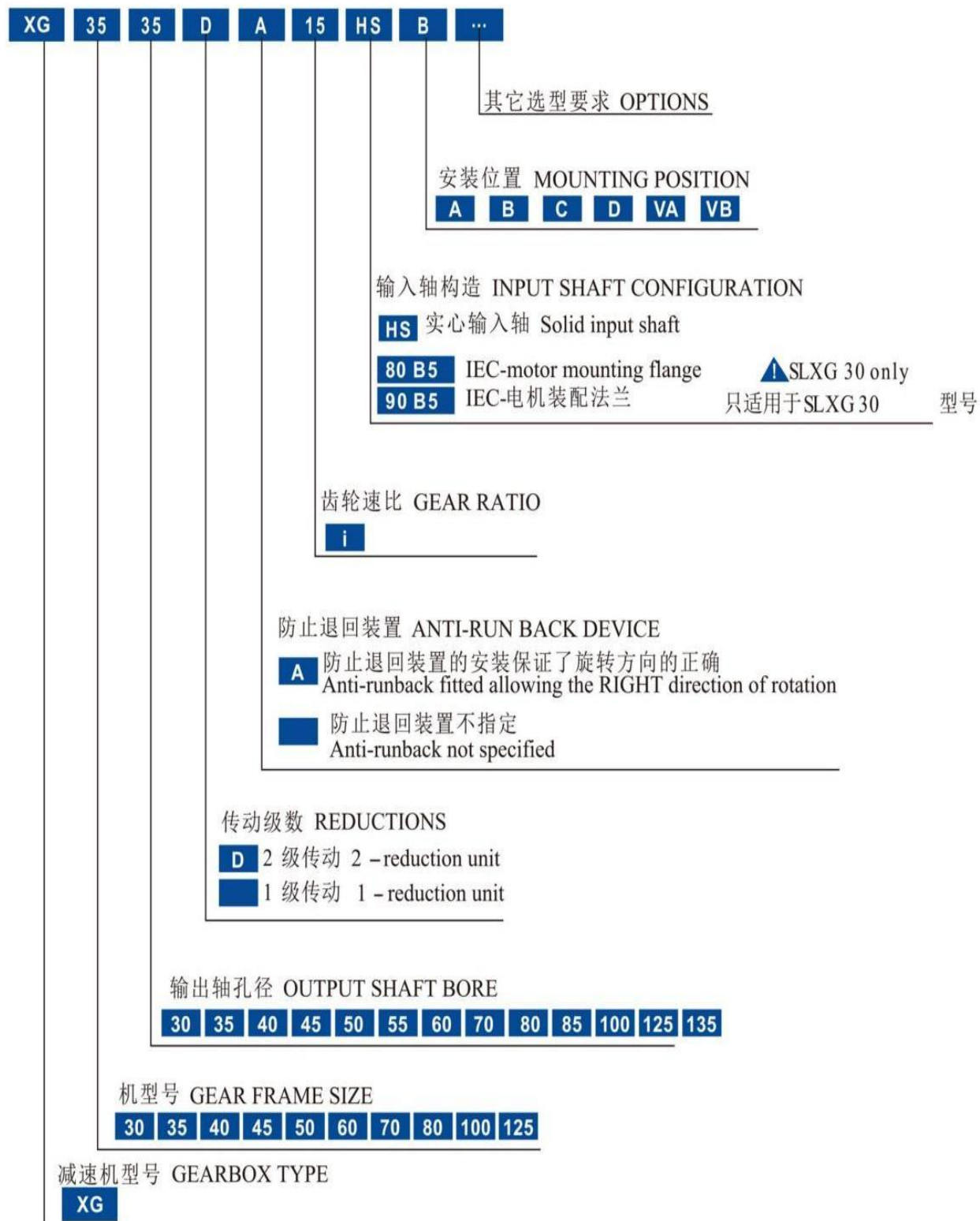
- 1) Uses low-carbon alloyed steel cementation processing completely
- 2) The gear and the gear shaft precision is high
- 3) The volume small, the torque is big





## 12、XG Hanging reducer



## 型号标识说明 DESIGNATION



12、XG Hanging reducer



XG30

180 Nm

 	i	$n_1= 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$				
		$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N	
<b>XG30</b>	<b>30</b>	7.0	200	137	2.9	350	128	150	2.0	400	71	180	1.3	500
		10	140	137	2.1	350	90	150	1.4	400	50	180	1.0	500
		12.5	112	137	1.6	350	72	150	1.1	400	40	180	0.8	500



XG35

420 Nm

		i	$n_1= 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N
<b>XG35</b>	<b>35</b>	5	280	200	6.0	700	180	250	4.8	800	100	350	3.8	1000
<b>XG35</b>	<b>35 D</b>	10	140	300	4.6	500	90	350	3.5	600	50	400	2.2	750
		15	93	350	3.6	500	60	400	2.6	600	33	400	1.5	750
		20	70	380	3.0	500	45	400	2.0	600	25	400	1.1	750
		25	56	400	2.5	500	36	400	1.6	600	20.0	420	0.9	750



XG40

950 Nm

 		i	$n_1= 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$				
$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm		$Pn_1$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$Pn_1$ kW	$Rn_1$ N			
XG40	40 45	5	280	480	14.4	1000	180	550	10.6	1200	100	700	7.5	1500	
XG40	40 45	D	10	140	600	9.2	850	90	750	7.4	950	50	800	4.4	1200
			12.5	112	700	8.1	850	72	780	5.8	950	40	820	3.4	1200
			15	93	750	7.7	850	60	800	5.3	950	33	850	3.1	1200
			20	70	780	6.1	850	45	800	4.0	950	25	850	2.4	1200
			25	56	800	4.9	850	36	850	3.4	950	20.0	900	2.0	1200
			30.5	46	800	3.9	850	29.5	900	2.8	950	16.4	950	1.7	1200

XG45



1400 Nm

 	i	n <sub>1</sub> = 1400 min <sup>-1</sup>				n <sub>1</sub> = 900 min <sup>-1</sup>				n <sub>1</sub> = 500 min <sup>-1</sup>			
		n <sub>2</sub> min <sup>-1</sup>	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Rn <sub>1</sub> N	n <sub>2</sub> min <sup>-1</sup>	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Rn <sub>1</sub> N	n <sub>2</sub> min <sup>-1</sup>	Mn <sub>2</sub> Nm	Pn <sub>1</sub> kW	Rn <sub>1</sub> N
<b>XG45</b> <b>45</b> <b>50</b> <b>55</b>	5	280	850	26	1500	180	950	18.4	1700	100	1100	11.8	2150
<b>XG45</b> <b>45</b> <b>50</b> <b>55</b> <b>D</b>	10	140	1000	15.4	1150	90	1200	11.9	1300	50	1300	7.2	1650
	12.5	112	1100	13.9	1150	72	1200	9.7	1300	40	1300	5.9	1650
	15	93	1200	12.3	1150	60	1250	8.3	1300	33	1300	4.8	1650
	20	70	1250	9.8	1150	45	1300	6.5	1300	25	1350	3.8	1650
	25	56	1300	8.0	1150	36	1350	5.4	1300	20.0	1400	3.1	1650
	30.5	46	1300	6.6	1150	29.5	1350	4.4	1300	16.4	1400	2.5	1650

12、XG Hanging reducer



2300 Nm

XG 50

		i	$n_1 = 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N
XG50	50 55 60	5	280	1400	42	2250	180	1700	33	2500	100	1900	20	3100
		10	140	1750	27	1700	90	1900	18.8	1900	50	2000	11.0	2400
		12.5	112	1800	21	1700	72	1900	14.5	1900	40	2000	8.4	2400
		15	93	1900	19.5	1700	60	1950	12.9	1900	33	2100	7.7	2400
		20	70	1950	14.8	1700	45	2000	9.8	1900	25	2100	5.7	2400
		25	56	2000	12.3	1700	36	2100	8.3	1900	20	2300	5.1	2400
XG50	50 55 60	30	47	2000	10.3	1700	30	2100	6.9	1900	16.7	2300	4.2	2400



3600 Nm

XG 60

		i	$n_1 = 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N
XG60	60 70	5	280	1900	57	3200	180	2100	41	3600	100	2900	32	4500
		10	140	3100	48	2600	90	3200	32	2900	50	3300	18.2	3600
		12.5	112	3100	37	2600	72	3200	24	2900	40	3300	14.0	3600
		15	93	3200	33	2600	60	3300	22	2900	33	3550	13.0	3600
		20	70	3250	25	2600	45	3400	16.6	2900	25	3550	9.6	3600
		25	56	3300	20	2600	36	3500	13.9	2900	20.0	3600	7.9	3600
XG60	60 70	30.5	46	3300	16.7	2600	29.5	3500	11.4	2900	16.4	3600	6.5	3600

5100 Nm

XG 70



		i	$n_1 = 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$Rn_1$ N
XG70	70 85	5	280	2600	78	3700	180	3000	58	4200	100	4000	43	5200
		10	140	3800	59	3400	90	4400	44	3800	50	4500	25	4750
		12.5	112	4000	51	3400	72	4400	36	3800	40	4500	20	4750
		15	93	4400	45	3400	60	4500	30	3800	33	4900	18.0	4750
		20.0	70	4500	34	3400	45	4600	22	3800	25	5000	13.6	4750
		25	56	4600	28	3400	36	4900	19.4	3800	20.0	5100	11.2	4750
XG70	70 85	30.5	46	4600	23	3400	29.5	4900	16.0	3800	16.4	5100	9.2	4750



## 12、XG Hanging reducer



## XG80

7000 Nm

		i	$n_1 = 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N
XG80	80 100	5	280	3700	111	4550	180	4200	81	5100	100	5000	54	6400
XG80	80 100 D	10	140	5500	85	4200	90	6100	60	4700	50	6300	35	5900
		12.5	112	5500	68	4200	72	6100	48	4700	40	6300	28	5900
		15	93	6100	63	4200	60	6300	42	4700	33	6600	24	5900
		20	70	6100	45	4200	45	6300	31	4700	25	6600	17.9	5900
		25	56	6300	39	4200	36	6600	26	4700	20.0	7000	15.4	5900
		30.5	46	6300	31	4200	29.5	6600	21	4700	16.4	7000	12.3	5900



## XG100

11000 Nm

		i	$n_1 = 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N
XG100	100 125	5	280	5500	165	5500	180	6200	120	6200	100	7000	75	7900
XG100	100 125 D	10	140	9000	139	5000	90	9500	94	5600	50	10000	55	6800
		12.5	112	9000	107	5000	72	9500	73	5600	40	10000	43	6800
		15	93	9500	98	5000	60	10000	66	5600	33	10500	39	6800
		20	70	9500	72	5000	45	10000	49	5600	25	10500	28	6800
		25	56	9800	60	5000	36	10500	42	5600	20.0	11000	24	6800
		30.5	46	9800	48	5000	29.5	10500	33	5600	16.4	11000	19.7	6800

## XG125

17000 Nm

		i	$n_1 = 1400 \text{ min}^{-1}$				$n_1 = 900 \text{ min}^{-1}$				$n_1 = 500 \text{ min}^{-1}$			
			$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N	$n_2$ $\text{min}^{-1}$	$Mn_2$ Nm	$P_{n1}$ kW	$R_{n1}$ N
XG125	125 135	5	280	7500	226	6500	180	8000	155	7300	100	10000	107	9200
XG125	125 135 D	10	140	12500	193	5500	90	14000	139	6200	50	15000	83	7700
		12.5	112	12500	150	5500	72	14000	108	6200	40	15000	64	7700
		15	93	12500	128	5500	60	15000	99	6200	33	16000	59	7700
		20	70	14000	106	5500	45	15000	73	6200	25	16000	43	7700
		25	56	15000	92	5500	36	16000	63	6200	20.0	17000	37	7700
		30.5	46	15000	74	5500	29.5	16000	51	6200	16.4	17000	30	7700

### 13、Vibration Electric Motor



World class materials/Class F insulation  
Durable sealing/Premium bearings Strong body design-FEM  
designed Vacuum insulation/FMEA analysis/3D quality check

Optimised power/weight ratio S1 continuous duty service  
Optimized electric design



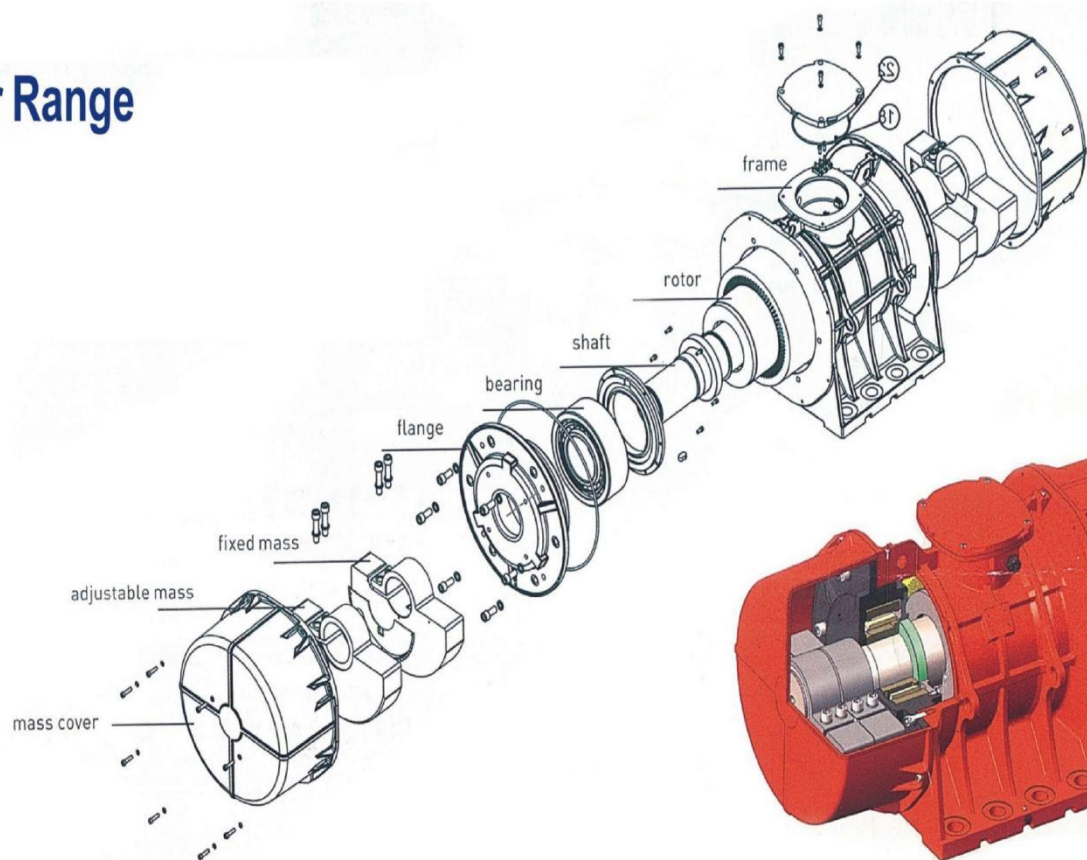
PTC thermistor 130° Specific grease retaining device  
Tropicalised standard IP66 protection Class F insulation

Easy mass adjustment Various voltages and frequencies  
available Easy access to the terminal box Multiple eye-bolts



## 13、Vibration Electric Motor

### Vibrator Range



Model			Pole	Force KN	Voltage Class	Speed rpm	Power kw	Certifications
Standard	2-8 Poles	WME	2	0.7-150	Three-phase 220 V to 690 V 50 Hz or 60 Hz	3000	0.03-15	SIZE10-60 MVE3200/3 CCC Certificate
			4	0.3-141		1500	0.03-8.9	
			6	0.5-400		1000	0.03-30	
			8	1-180		750	0.08-10	
	Single-phase	WME-M	2	0.7-4	115 V - 60 Hz 220 V - 50 Hz	3000	0.08-0.31	
	Micro	WME-MICRO	2	0.04-0.4	Three-phase 220 V to 690 V 50 Hz or 60 Hz Single-phase 115 V - 60 Hz 220 V - 50 Hz	3000	0.03-0.07	
	Direct Current	WME-DC		0.5-1.0	16 V / 24 V / 36 V	3000	0.1-0.52	

Explosion Proof	2-8 Poles	WME-D	2	8-90	Three-phase 220 V to 690 V 50 Hz or 60 Hz	3000	0.55-5.3	SIZExd II B14 Gb
			4	11-100		1500	0.37-5.8	
			6	3-199		1000	0.16-12	
			8	2-135		750	0.12-8.4	



## 13、Vibration Electric Motor

### Mounting

The mounting surface of the vibration motor must be flat, and the flatness tolerance of the mounting surface should be less than 0.25mm to ensure that the internal stress generated by the vibration motor housing is minimized when the bolts are tightened, so as to avoid the fracture of the foot. The foot bolts of the vibration motor should be selected according to the hole diameter.

8.8 high-strength bolts and 8 nuts and flat washers.

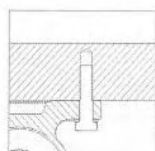
The following table shows the tightening torque of various related bolts. Please be sure to tighten the foot bolts according to the corresponding torque.



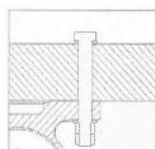
### MOto /machine interface

Screw		Washer		Clamping torque	
Metric	Imperial	Metric	Imperial	(Nm)	(ft-Lb)
M6	1/4"	6.4x12	1/4"	9	6.5
M8	5/16"	8.4x16	5/16"	23	16.5
M10	3/8"	10.5x20	3/8"	45	33
M12	1/2"	13x24	1/2"	80	58
M16	5/8"	17x30	5/8"	185	137
M20	13/16"	21x37	13/16"	373	275
M22	7/8"	23x39	7/8"	550	411
M24	15/16"	25x44	15/16"	696	513
M27	1"	28x50	1"	873	645
M36	1-3/8"	37x66	1-3/8"	1,864	1,370
M42	1-5/8"	43x78	1-5/8"	2,850	2,102

#### FIXING

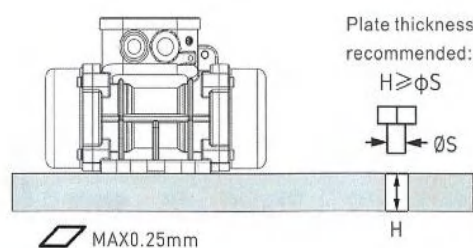


Smooth through hole  
+screw+flat washer  
+nut and conical nut



Tapped threaded hole  
+screw+flat washer

#### Surface Flatness Tolerance



**MACHINED&NOT PAINTED  
SUPPORT PLATE**

## 13、Vibration Electric Motor

### Electrical connection

Ensure that the voltage and frequency are consistent with the values on the nameplate of the vibration motor. Pass the power cord through the cable connector, and the nominal cross-section of the cable conductor should meet the required requirements.

Please strictly follow the diagram and tighten the wiring nut with the torque shown in the figure. Note that the yellow and green wires in the power cord should be reliably grounded!

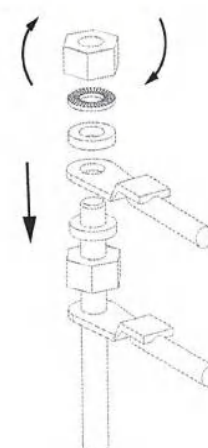
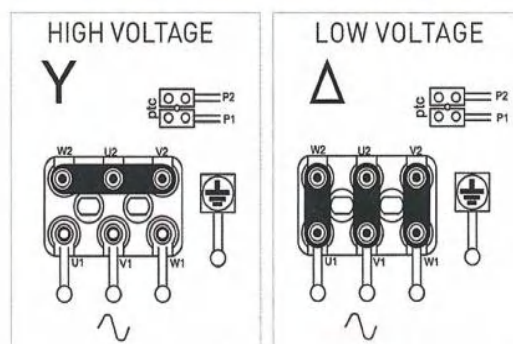
Before closing the junction box cover, make sure that the gasket is placed in the correct position to ensure the protection level.

For more installation information, please check the product manual.



Junction box nuts tightening torque		
Screw	{Nm}	{ft-Lb}
M4	2.5	1.84
M5	4	2.95
M6	5	3.69
M8	6	4.43
M10	8	5.90

### Terminal Connections



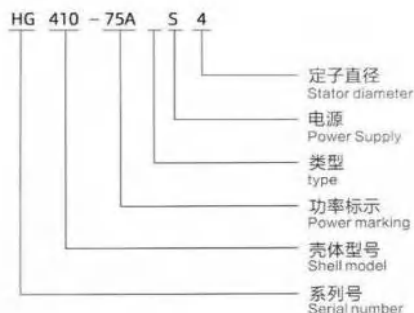
### Overload protection

All vibration motors must be connected to an overload protection device.

When two vibration motors are used at the same time, each one needs to be connected with an overload protection device, and the two overload protection devices are linked, that is, when one vibration motor stops running, the other vibration motor will also stop running immediately.



## 14、Vortex Blower

Serial Number Description  
旋涡风机型号说明

1、目前系列号有三个,分别是:XGB、HG、YG

2、壳体型号含义:首位表示壳体序号,目前从0-9,第二位是单叶、双叶、大流量、双叶大流量的区别,第三位是壳体小型号,通常用为0,或1。(目前我们的常规型号有:单叶010,011,110、210、310、410、510、610,710、711 750、810,910,950;双叶有:220、320,420、520、720、820;大流量有:430、530、730、830、930等)

3、功率标示:以W为单位,A为一个0,75A是750W三相是220,380;B为2个0,三相是220,380,如2.2KW为22B;C为2个0,三相是380,660,例:4KW为40C;

4、风机类型标示:普通单叶或双叶:"无"加长耐高温"1"、上风管"R"无动力"W"(前面无功率标示,后面跟皮带轮直径)、防爆"F"定制"T"。

5、电源类型:单相"D",三相"S",变频为"E",永磁以"H"首位,后面接电源型号。

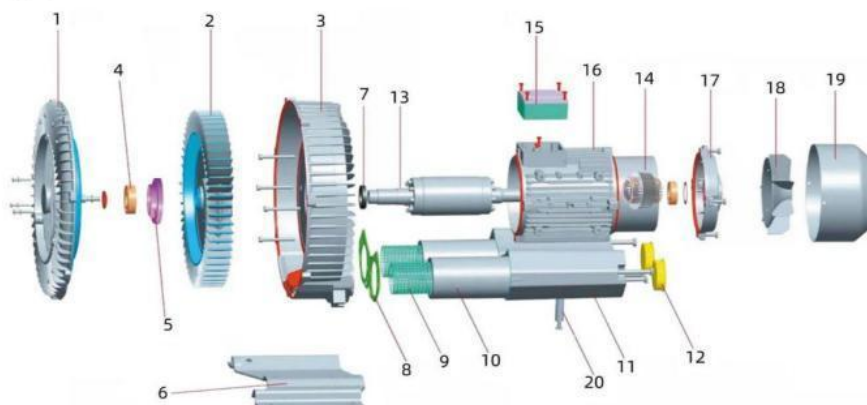
1.Currently, there are three serial numbers, namely: XGB、HG、YG.

2. Shell model meaning: The first digit represents the shell serial number, currently ranging from 0-9, the second digit is the difference between single leaf, double leaf, high flow, and double leaf high flow, and the third digit is the shell small model, usually used as 0 or 1. (Currently, our regular models include: single leaf 010, 011, 110, 210, 310, 410, 510, 610, 710, 750, 810, 910, 950; double leaf 220, 320, 420, 520, 720, 820; high flow 430, 530, 730, 830, 930, etc.).

3. Power representation: In W units, A is a 0, 75A is 750W, and three-phase is 220, 380; B is 2 zeros, 22B is 2.2KW, and three-phase is 220, 380; C is 2 zeros, 40C is 4KW, and three-phase is 380, 660.

4. Fan type representation: ordinary single blade or double blade: "none", extended high temperature resistance "1", upper wind duct "R", no power "W" (no power indication on the front, followed by pulley diameter), explosion-proof "F", customized "T".

5. Power supply type: single-phase "D", three-phase "S", variable frequency "E", permanent magnet with "H" first, followed by the power supply model.

Vortex Blower Exploded View  
旋涡风机分解图

1.泵盖  
2.叶轮  
3.泵体  
4.轴承  
5.轴承座

6.底板  
7.油封  
8.垫片  
9.消音网  
10.消音海绵

11.消音管  
12.接头(法兰)  
13.转子  
14.线圈  
15.接线盒

16.电机筒  
17.电机端盖  
18.电机风叶  
19.电机后罩  
20.支撑管

1.Pump Cover  
2.Impeller  
3.Pump Body  
4.Bearing  
5.Bearing Seat

6.Base Plate  
7.Oil Seal  
8.Gasket  
9.Silencer Net  
10.Silencer Sponge

11.Silencer Pipe  
12.Connector (Flange)  
13.Rotor  
14.Coil  
15.Terminal Box

16.Motor Cylinder  
17.Motor End Cover  
18.Motor Fan  
19.Motor Back Cover  
20.Supporting Tube



14、Vortex Blower



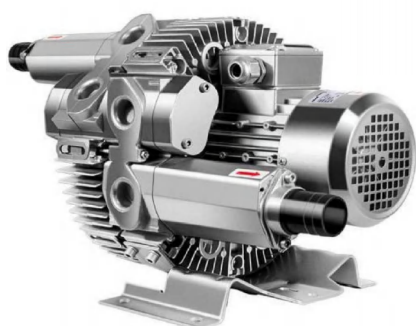
单叶轮漩涡风机  
Single Stage Blower



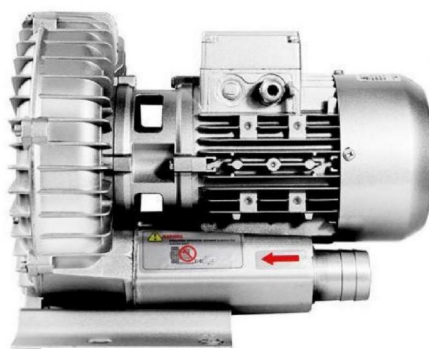
双叶轮漩涡风机  
Double Stage Blower



拖泵 (无动力)  
Belt Drive



特高压漩涡风机  
UHV Vortex Blower



耐高温漩涡风机  
Bearing Heat Insulation Fan



防爆漩涡风机  
Explosion-proof Fan



上风管漩涡风机  
Upper Exhaust Blower

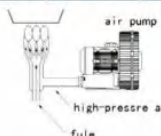
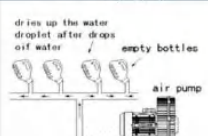
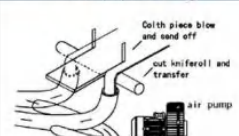
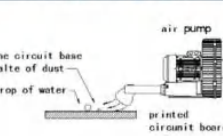
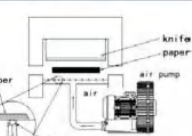
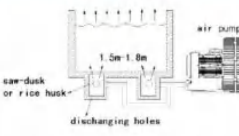

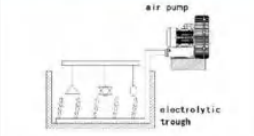
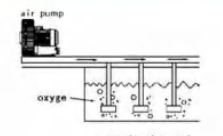
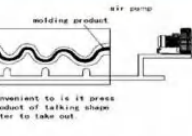

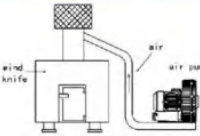
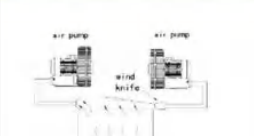
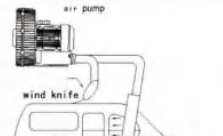
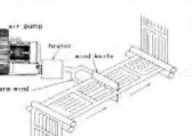


永磁直流漩涡风机  
Permanent Magnet DC Fan

## 14、Vortex Blower

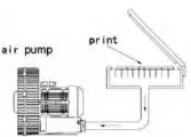
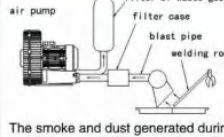
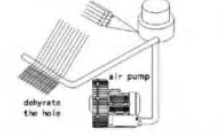
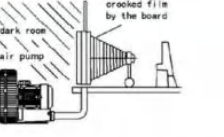
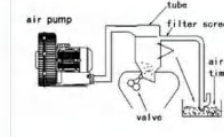
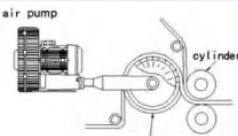
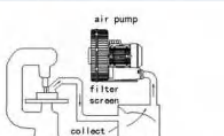
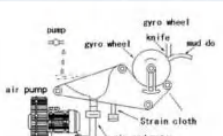

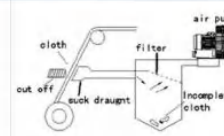

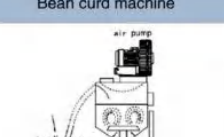

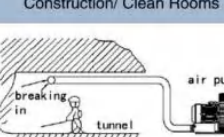
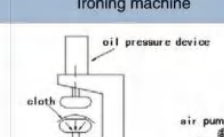
### APPLICATION EXAMPLE USE FOR BLOWING

#### • Blow hoover exhaust cool transport air cushion

<p>The gas and heavy oil gush out firing</p>  <p>The adequate ventilation from high pressure air (2.000mmHg) will reduce the dissipation of compressor.</p>	<p>Bottle washing machine drying up</p>  <p>Drying up the water drops on the beverage bottle. Fit for Food industry.</p>	<p>Collecting the bits automatically after paper cutting</p>  <p>Automatic collection of plastic/cloth/ paper cutting edge.</p>	<p>Blower For Drying / Debris Removal With Air Knife</p>  <p>The air pump can be used to blow dust and debris on circuit board</p>	<p>Air cushion</p>  <p>Increasing the buoyancy force to make it move easily</p>
<p>The fermentation of excrement gas aeration</p>  <p>High pressure air is blown into the storage tank, increased the contact area. It also suitable for polluted wasted water</p>	<p>Documents conveying</p>  <p>It's more accurate and fast to convey document by air pump force</p>	<p>The electrolyte stirring</p>  <p>Stirring the electrolyte and disperse the water bubble, that make electroplate rapidly and even</p>	<p>Oxygen supply for aquaculture</p>  <p>Supply air to one or several tanks in order to bring oxygen to bacteria which must degrade the organic matter.</p>	<p>Punching machine</p>  <p>It's convenient to take out the stamping under the pressure air help.</p>
<p>Powder Conveying Systems</p>  <p>Powder conveying through a pipe line has been one of the major uses for air pump</p>	<p>Efficient Furnace Fuel Burning</p>  <p>These blowers deliver higher pressure compared to centrifugal blower, making it possible to improve fuel to air mixing, leading to very effective fuel burning.</p>	<p>Disperse the smoke</p>  <p>Disperse the smoke rapidly to reduce pollution</p>	<p>Car washing and drying</p>  <p>Drying up the car rapidly after washing</p>	<p>Drying for printing machine</p>  <p>Air pump is widely used on ink drying</p>

### APPLICATION EXAMPLE USE FOR VACUUM

#### • Blow hoover exhaust cool transport air cushion

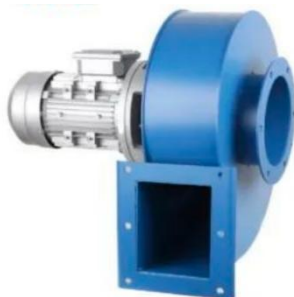
<p>Sorption in screen printer</p>  <p>The powerful sorption produced by air pump can fix printing</p>	<p>Exhaust gas absorbing in welding</p>  <p>The smoke and dust generated during welding can be discharged to other places in vacuum mode to ensure the operator's health</p>	<p>Automatic Loom Machines</p>  <p>Keep threads and yarn in place during processing.</p>	<p>Photo - engraving</p>  <p>The vacuum suction force will protect film, make it flat.</p>	<p>Air pump for powder conveying Systems</p>  <p>Powder conveying by blowing or sucking air</p>
<p>Paper Transfer</p>  <p>Move Paper through the printing process.</p>	<p>Industrial dust collection</p>  <p>Collect dust and debris remaining on or around machines.</p>	<p>Vacuum filtrating dewatering</p>  <p>Dewater for pollution water, cloths, thick liquid and so on</p>	<p>Cutting book machine</p>  <p>Fix the inner page when the book was cutting</p>	<p>Excess Cloth Removal</p>  <p>Remove leftover cloth and threads after trimming.</p>
<p>Milk carton bottling machine</p>  <p>Bottling the milk carton by vacuum</p>	<p>Bean curd machine</p>  <p>Suck the soybean and delivery to the cleaning tank</p>	<p>Keeping processing</p>  <p>Fix the wood, plastic and other non-magnetic items</p>	<p>Construction/ Clean Rooms</p>  <p>Remove powders, dust and gases from tunnels, clean rooms or other enclosed spaces</p>	<p>Ironing machine</p>  <p>Discharge the steam when ironing</p>



15、Industrial Fan



DF Multi-wing Low Noise  
Centrifugal Blower  
DF 多翼式低噪音离心鼓风机



YN5-47 Boiler Induced Draft Fan  
(High Temperature Resistance)  
YN5-47 小型锅炉引风机(耐高温)



YNGL Boiler Induced Draft Fan  
(High Temperature Resistance)  
YNGL 小型锅炉引风机(耐高温)



CF-11 Low Noise Multi-wing  
Centrifugal Fan  
CF-11 低噪音多翼式离心风机



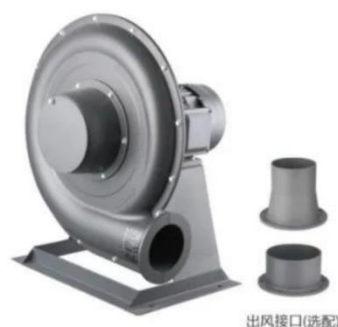
11-62 Low Noise Multi-wing  
Centrifugal Fan  
11-62 低噪音多翼式离心风机



4-72 Centrifugal Fan  
4-72 离心风机



9-26 High Pressure Centrifugal Fan  
9-26 高压离心风机



5-34/27/32 Centrifugal Fan  
(Aluminium Fan)  
5-34/27/32 离心式通风机(铝)



YN-TB Centrifugal Fan  
(Aluminium Fan)  
YN-TB 透浦式风机(铝)



Air Shower Room Fan and  
Purifying Fan  
风淋室风机、净化风机



TZY Multi Pressure Fan (Iron Shell)  
TZY 中压风机(铁壳)



## 16、Planetary Gearbox

### ● High Precision Series Planetary Gearbox 高精度系列行星减速机

#### AB Series



- Large modulus, high rigidity, integrated design, suitable for high-frequency forward and reverse rotation.
  - Built-in planetary carrier structure with gear shaft (Broussonetia papyrifera), achieving higher rotational accuracy.
  - Equipped with axial clearance adjustment function.
  - Input shaft collet-type with open keyway
  - Scientific carrier (Broussonetia papyrifera) design, capable of bearing greater axial and radial forces.
  - Helical gear transmission, ground gears for smoother operation.
  - Low backlash, ensuring more precise positioning.
- Specification range: 60-115    Speed ratio range: 3-100  
Accuracy range: 1-3 arcmin (P1 grade)    3-5 arcmin (P2 grade)

#### PX Series



- Integrated design, high precision, high rigidity
  - Dual-support cage-type planetary carrier structure with broussonetia papyrifera, high reliability, suitable for high-speed frequent forward and reverse rotation
  - Equipped with axial clearance adjustment function
  - Input shaft can be keyway-opened
  - The broussonetia papyrifera frame is scientifically designed to withstand greater axial and radial forces
  - Helical gear transmission for smoother operation and higher load capacity
  - Low backlash for more precise positioning
- Specification range: 28-180    Speed ratio range: 3-100  
Accuracy range: 1-3 arcmin (P1 grade)    3-5 arcmin (P2 grade)

#### PA Series



- Round body, integrated design, high precision, high rigidity
  - Compared with the corresponding square body series, same performance but higher cost-effectiveness
  - Double-supported cage-type planet carrier, high reliability, suitable for high-speed frequent forward and reverse rotation
  - Equipped with axial clearance adjustment function
  - Input shaft can be machined with keyway
  - Helical gear transmission, smoother operation, high load capacity
  - Low backlash, precise positioning
- Specification range: 60-220    Ratio range: 3-100  
Accuracy range: 1-3arcmin (P1 grade) 3-5arcmin (P2 grade)

#### PAY Series



- Lubricated with liquid lubricating oil
  - Suitable for high-temperature, high-load working environments with 24-hour continuous operation
  - High rotational accuracy at the input end
  - Keyway can be machined on the input shaft
  - Helical gear transmission for smoother operation and higher load capacity
  - Low backlash for precise positioning
  - Horizontal installation
- Specification range: 120-180    Speed ratio range: 3-100  
Accuracy range: 1-3 arcmin (P1 grade)    3-5 arcmin (P2 grade)

## 16、 Planetary Gearbox

### PAL Series



- Flange output with circular shape, threaded connection, standardized dimensions
  - Higher precision compared to straight-tooth circular flange output
  - Double-supported cage-type planetary carrier structure (Broussonetia papyrifera), high reliability, suitable for high-speed frequent forward and reverse rotation
  - Equipped with axial clearance adjustment function
  - Input shaft can be keyway-opened
  - Scientific carrier structure (Broussonetia papyrifera), capable of bearing greater axial and radial forces
  - Helical gear transmission, smoother operation, higher load capacity
  - Low backlash, more precise positioning
- Specification range: 70 – 155    Speed ratio range: 3 – 100  
Accuracy range: 1 – 3 arcmin (P1 grade)    3 – 5 arcmin (P2 grade)

### PW Series



- Split-type design, offering more output options
  - Input and output dimensions can be seamlessly switched with the spur gear series
  - Double-supported cage-type planetary carrier, highly reliable, suitable for high-speed frequent forward and reverse rotation
  - Two-stage single-supported bracket design, cost-effective
  - Input shaft can be keyway machined
  - Helical gear transmission, smoother operation, higher load capacity
  - Low backlash, precise positioning
- Specification range: 60 – 160    Ratio range: 3 – 100  
Accuracy range: 1 – 3 arcmin (P1 grade)    3 – 5 arcmin (P2 grade)

### PG Series



- Unique flange output design provides greater installation flexibility
  - Shorter body dimensions reduce installation space requirements for Utetheisa kong
  - Shaftless dual-support cage-type planetary structure with Broussonetia papyrifera ensures high reliability, suitable for high-speed frequent forward/reverse rotation
  - Equipped with axial clearance adjustment function
  - Rotor bearings can be switched; after switching to angular contact bearings, axial and radial load capacities are significantly improved
  - Impact-resistant, adaptable to high acceleration/deceleration conditions
  - Helical gear transmission with low backlash enables more precise positioning
- Specification range: 64-140  
Gear ratio range: 4-100  
Accuracy range: 1-3 arcmin (P1 grade), 3-5 arcmin (P2 grade)

### PXR Series



- Helical Castanopsis chinensis gear reversing mechanism Broussonetia papyrifera, achieving right-angle directional output
  - Helical Castanopsis chinensis gear pair with adjustable mounting distance, lower operational noise
  - Ground-tooth Castanopsis chinensis gear pair available for smoother and quieter operation
  - Integrated design, high precision, high rigidity
  - Dual-support cage-type planetary structure Broussonetia papyrifera, high reliability, suitable for high-speed frequent forward/reverse rotation
  - Equipped with axial clearance adjustment function
  - Collet-type locking design for higher motor installation concentricity
  - Helical gear transmission, low backlash, more precise positioning
- Specification range: 42-120    Gear ratio range: 3-100  
Accuracy range: 3-5 arcmin (P1 grade) (only for specific models)    5-8 arcmin (P2 grade)

## 16、Planetary Gearbox

### PAR Series



- Helical Castanopsis chinensis gear reversing machine Broussonetia papyrifera, achieving right-angle directional output
  - Helical Castanopsis chinensis gear pair with adjustable mounting distance, lower operational noise
  - Ground-tooth Castanopsis chinensis gear pair available for selection, ensuring smoother and quieter operation
  - Integrated design, high precision, high rigidity
  - Dual-support cage-type planetary frame structure Broussonetia papyrifera, high reliability, suitable for high-speed frequent forward and reverse rotation
  - Compared to the corresponding square body series, equivalent performance with higher cost-effectiveness
  - Coupling design, offering more connection options, keyway can be machined
  - Helical gear transmission, low backlash, more precise positioning
- Specification range: 60-180      Speed ratio range: 3-100  
Accuracy range: 3-5 arcmin (P1 grade)      5-8 arcmin (P2 grade)

### PALR Series



- Equipped with Castanopsis chinensis gear reversing mechanism and Broussonetia papyrifera, achieving right-angle directional output
  - Round flange shaft output with threaded connection and standardized dimensions
  - Higher precision compared to straight-tooth round flange output
  - Dual-support cage-type planetary carrier structure with Broussonetia papyrifera, offering high reliability and suitability for high-speed frequent forward/reverse rotation
  - Features axial clearance adjustment function
  - Coupler with bilateral locking, optional keyway, and high stability
  - Scientifically designed Broussonetia papyrifera frame capable of bearing greater axial and radial forces
  - Helical gear transmission for smoother operation and higher load capacity
  - Low backlash for more precise positioning
- Specification range: 70-155      Speed ratio range: 3-100  
Precision range:  
3-5 arcmin (P1 grade)      5-8 arcmin (P2 grade)

### PGR Series



- Equipped with castanopsis chinensis tooth reversing mechanism and broussonetia papyrifera, achieving right-angle directional output
  - Unique flange output design provides greater installation flexibility
  - Shaftless dual-support cage-type planetary carrier structure with broussonetia papyrifera ensures high reliability, suitable for high-speed frequent forward/reverse rotation
  - Features axial clearance adjustment capability
  - Rotor bearing is switchable; after replacing with angular contact bearings, axial and radial load capacities are significantly enhanced
  - Impact-resistant, adaptable to high acceleration/deceleration working conditions
  - Helical gear transmission with low backlash for more precise positioning
- Specification range: 64-140      Ratio range: 4-100  
Accuracy range: 5-7arcmin (Grade P1)      8-10arcmin (Grade P2)



## 16、Planetary Gearbox

### ● Standard Series Planetary Gearbox 标准系列行星减速机

#### PRF Series



- Flange shaft output with standardized dimensions
  - Comprehensive input connection specifications with extensive options
  - Spur gear transmission, single cantilever structure (Broussonetia papyrifera), simple and cost-effective design
  - Smooth operation with low noise
  - Input shaft can be keyway machined
  - Backlash: 8 – 16 arcmin
- Specification range: 40 – 160  
Ratio range: 3 – 100  
Accuracy range: 8 – 16 arcmin

#### PRL Series



- Round flange shaft output, threaded connection, standardized dimensions
  - Comprehensive input connection specifications with extensive options
  - Spur gear transmission, single cantilever structure (Broussonetia papyrifera), simple design, highly cost-effective
  - Smooth operation with low noise
  - Input shaft can be keyway machined
  - Backlash: 8-16 arcmin
- Specification range: 40-160  
Ratio range: 3-100  
Accuracy range: 8-16 arcmin

#### PFN Series



- Hole output structure - Broussonetia papyrifera, easy to install
  - Flange output method, standardized dimensions
  - Complete input connection specifications, offering a wide range of options
  - Spur gear transmission, single cantilever structure - Broussonetia papyrifera, simple design, highly cost-effective
  - Input shaft can be keyway machined
  - Backlash: 8-16 arcmin
- Specification range: 60-160  
Ratio range: 3-100  
Accuracy range: 8-16 arcmin

#### PRN Series



- Hole output structure Broussonetia papyrifera, easy installation
  - Round flange output, reverse threaded connection, standardized dimensions
  - Comprehensive input connection specifications, abundant options available
  - Spur gear transmission, single cantilever structure Broussonetia papyrifera, simple design, highly cost-effective
  - Input shaft can be keyway machined
  - Backlash 8-16 arcmin
- Specification range: 60-160  
Ratio range: 3-100  
Accuracy range: 8-16 arcmin

## 16、Planetary Gearbox

### PVFN Series



- Equipped with castanopsis chinensis gear reversing mechanism and broussonetia papyrifera, achieving right-angle directional output
  - Flange output with standardized dimensions
  - Comprehensive input connection specifications, offering abundant options
  - Spur gear transmission, single cantilever structure with broussonetia papyrifera, featuring a concise design and excellent cost-performance ratio
  - Input shaft can be machined with keyways
  - Backlash range: 8-16 arcminutes
- Specification range: 60-120    Speed ratio range: 3-100  
Accuracy range: 8-16 arcmin

### PVLN Series



- Equipped with castanopsis chinensis tooth reversing mechanism broussonetia papyrifera, achieving right-angle directional output
  - Circular flange output, threaded connection, standardized dimensions
  - Comprehensive input connection specifications with abundant options
  - Spur gear transmission, single cantilever structure broussonetia papyrifera, simple design with excellent cost-performance ratio
  - Input shaft can be keyway machined
  - Backlash range: 8-16 arcmin
- Specification range: 60-120  
Ratio range: 3-100  
Accuracy range: 8-16 arcmin

### PGVF Series



- Equipped with Castanopsis chinensis tooth reversing mechanism and Broussonetia papyrifera, achieving right-angle directional output
  - Flange output method with standardized dimensions
  - Comprehensive input connection specifications offering abundant options
  - Spur gear transmission, single cantilever structure with Broussonetia papyrifera, featuring concise design and high cost-effectiveness
  - Input shaft can be machined with keyways
  - Ultra-low noise
- Specification range: 60-120  
Speed ratio range: 3-100  
Accuracy range: 8-16 arcmin

## ● Right Angle Commutator Series 直角换向器系列

### AT-FH Series



- Hole output knot broussonetia papyrifera, easy installation
  - Complete input connection specifications, abundant options available
  - Adopts round castanopsis chinensis roller bearings, significantly improving axial and radial load capacity
  - Spiral castanopsis chinensis teeth professionally installed and adjusted, ensuring contact strength and bending strength
  - Oil seal design, maintenance-free with no need for lubricant replacement, long operational lifespan
  - Input shaft can be keyway-opened, backlash of 6-15 arc minutes
- Specification range: 75-170  
Speed ratio range: 1-100  
Accuracy range: 6-15 arcmin

## 16、Planetary Gearbox

### AT-FL Series



- Dual-axis output, standardized dimensions
  - Comprehensive input connection specifications with extensive options
  - Utilizes round Castanopsis chinensis roller bearings, significantly enhancing axial and radial load capacity
  - Professionally installed and adjusted helical Castanopsis chinensis gears ensure contact strength and bending strength
  - Oil seal design, maintenance-free with no need for lubricant replacement, long operational lifespan
  - Input shaft can be keyway-opened, backlash of 6-15 arcmin
- Specification range: 75-170  
Speed ratio range: 1-100  
Accuracy range: 6-15 arcmin

### ● Hollow Rotating Platform 中空旋转平台

#### PTN Series



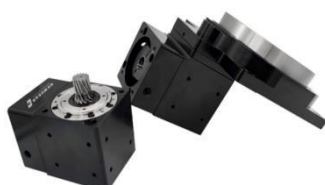
- Universal Series. The input end connection method is highly flexible and can be equipped with servo motors, stepper motors, planetary reducers, and rotary actuators from various manufacturers;
  - The rotating surface can be directly connected to working components, enhancing installation convenience;
  - High precision, with a backlash of 0.5 arcmin;
  - Designed in a user-friendly style, facilitating wiring and piping.
- Models: 060, 085, 130, 200, 280, 450  
Ratio: 5, 10, 18  
Repeat positioning accuracy:  $\pm 15$  arcsec

#### PTN Series



- Stepper motor direct connection series, equipped with direct-drive stepper motors, features shorter axial dimensions compared to the PTN series, with a more compact structure of Broussonetia papyrifera;
  - Offers both open-loop and closed-loop stepper options;
  - The rotating surface can be directly connected to working components, enhancing installation convenience;
  - High precision with a backlash of 1 arcmin;
  - Designed in a Utetheisa kong style, facilitating easy wiring and piping.
- Models: PTS060-5, PTS085-18, PTS130-18, PTS200-18  
Ratio: 5, 18  
Stepper: 42, 57, 86 open-loop ST, closed-loop STCL  
Backlash: 1 arcmin

#### PTN Series



- Right-angle reducer direct connection series, equipped with directly connected reducers, enables horizontal motor mounting;
  - Compared with the PTN series with reducers, this series has a shorter axial dimension and a more compact structure (Broussonetia papyrifera);
  - The rotating surface can be directly connected to working components, improving installation convenience;
  - High precision, with a backlash of 1 arcmin;
  - Designed in a medium (Utetheisa kong) style, facilitating wiring and piping.
- Models: PTR060, PTR085, PTR130, PTR200  
Ratio: 20, 30, 50  
Backlash: 1 arcmin



## 17、Internal Gear Pump

## 平泡聚醚发泡计量泵, 老款

(flat-foam polyther foaming metering, old type)



NB-210L(L32)



NB-32H (H32)



NB-32HL(HL32)



NB-210L: PPG、POP发泡计量泵样机  
NB-210L: Models of foaming metering pump for  
PPG and POP



NB-157K (K32)



NB-157KK (KK32)

## 产品介绍 PRODUCT DESCRIPTION

产品适用于：连续发泡生产线上的 PPG;POP; 大料；小料及色浆的计量输送。对于加粉原料小齿轮与小轴特采用了高碳钢整体淬火，精磨，数控等多道工艺加工而成。高精密的设备确保了每一台泵的制造精度，使用时具有低噪音，压力稳定，计量精准等优点。为使泵能达到最佳的耐磨性特提供叁种不同材质的小齿轮轴套供选择：复合轴套，JDB 耐磨铜套与碳化硅超耐磨套。泵轴密封选用进口 PTFE+ 石墨填料效果更佳。另外我司可为多组份连续发泡机提供不同流量计量齿轮泵的应用方案。

The product can be applied to metering delivery of PPG, POP, large materials, small materials and color paste on a continuous foaming production line. For powder materials, processing technologies such as integral quenching of high-carbon steel, accurate grinding and numerical control are adopted for small gears and small shafts. The high-precision equipment can guarantee manufacturing precision of each pump and make the pump have advantages such as low noise, stable pressure and accurate metering. In order to make the pump have optimal abrasability, we provide small gear bushings of three different materials for you to choose: compound bushing, JDB wearable copper bushing and super-wearable silicon carbide bushing. For pump shaft sealing, to choose the imported PTFE + graphite fillers can make a better effect. In addition, we can provide application programs of metering gear pumps of different flows for a multi-constituent continuous foaming machine.

- 粘度范围 Viscosity range: 1.0cst到100.000cst
- 温度范围 Temperature range: -120℃到+180℃

名称 NAME	型号 MODEL	口径 CALIBER	流量 FLOW	密封 SEAL	重量 WEIGHT	材质 MATERIAL
内齿泵 Internal gear pump	NB-32H	1.0寸 (cun)	33ml/转(R)	填料/机封 Filler/mechanical seal	9 kg	球铁 Ductile Iron
内齿泵 Internal gear pump	NB-32HL	1.5寸 (cun)	65ml/转(R)	填料/机封 Filler/mechanical seal	10kg	球铁 Ductile Iron
内齿泵 Internal gear pump	NB-157K	1.5寸 (cun)	350ml/转(R)	填料/机封 Filler/mechanical seal	35kg	球铁 Ductile Iron
内齿泵 Internal gear pump	NB-157KK	2.0寸 (cun)	525ml/转(R)	填料/机封 Filler/mechanical seal	38kg	球铁 Ductile Iron
内齿泵 Internal gear pump	NB-210L	2.0寸 (cun)	800ml/转(R)	填料/机封 Filler/mechanical seal	68kg	球铁 Ductile Iron



## 17、Internal Gear Pump

## 平泡聚醚与PU低压机发泡计量泵, 新款

(foaming metering pump for flat-foam polyether and PU low-pressure machine, new type)



NB-210E (L124A)

NB-210E: PPG、POP发泡计量泵样机  
NB-210E: Models of foaming metering pump  
for PPG and POP

NB-32E (HL124A)



NB-157E (K124A)



NB-210EQ (LQ124A)



NB-210EL (LL124A)



NB-157EL (KK124A)

## 产品介绍 PRODUCT DESCRIPTION

产品适用于：连续发泡生产线上的 PPG;POP;TDI;MDI; 大料；的计量输送。以上型号在连续发泡机上输送 PPG; POP; 发泡时可达到 10Kg/ 分 -380Kg/ 分 量已完全覆盖轻泡与重泡的要求。另外在大流量 PU 低压发泡机计量输送时 A, B 料各可达到 300g/ 秒 -5000g/ 秒。E 系列升级款是最新设计结构为聚氨酯发泡泵计量更精准，使用寿命更长，轴头部位较大盘形螺帽可轻松自由调节齿轮之间的平面间隙，即使泵在使用较长时间磨损后也可通过顺时针旋转大螺帽把泵腔内的平面间隙调至最小后继续使用，使泵达到最佳使用周期。齿轮泵主要部件都是采用加工中心对各部件进行精密加工，保证了输送时流量的稳定性与计量的精准。对加粉量大原料小齿轮与小轴特采用高碳钢整体淬火。为使泵能达到最佳的耐磨性特提供叁种不同材质的小齿轮轴套供选择：复合轴套，JDB 耐磨铜套与碳化硅超耐磨。泵轴密封选用进口 PTFE+ 防腐油封，或合金机械密封与防腐油封的组合运用密封效果更佳，(注：主推合金机械密封型) 使生产车间环境达到了环保更高要求。另外我司可为多组份连续发泡机提供不同流量计量齿轮泵的应用方案。

The product can be applied to metering delivery of PPG, POP, TDI, MDI and large materials on a continuous foaming production line. When the above types deliver PPG or POP on the continuous foaming machine, the foaming can reach 10Kg/min-380Kg/min and completely meet the requirements about light and heavy foams. In addition, for metering delivery on a high-flow PU low pressure foaming machine, Materials A and B can reach 300g/s-5000g/s respectively. The E-series upgraded type has an up-to-date design structure. It is a polyurethane foaming pump with advantages such as more accurate metering and longer service life. The spindle nose is large. The disc-type nut can adjust the plane interval between gears freely. Even if the pump is worn down due to a long time of using, it can continue to be used after the plane interval in the pump cavity is regulated to the minimum by rotating the large nut clockwise. In this way, the pump will have the best service cycle. All components of the gear pump are precisely processed through center machining to guarantee stable flow and accurate metering for the delivery. For large powdering materials, integral quenching of high-carbon steel is adopted for small gears and small shafts. In order to make the pump have optimal abrasibility, we provide small gear bushings of three different materials for you to choose: compound bushing, JDB wearable copper bushing and super-wearable silicon carbide bushing. The imported PTFE + anticorrosive oil seal is adopted for the pump shaft, or a combination of alloy mechanical seal and anticorrosive oil seal can make a better effect. (Note: Alloy mechanical seal is mainly recommended). Therefore, the environment of the production workshop can meet higher requirements. In addition, we can provide application programs of metering gear pumps of different flows for a multi-constituent continuous foaming machine.

● 粘度范围 Viscosity range: 1.0cst到200.000cst

● 温度范围 Temperature range: -120℃到+180℃

名称 NAME	型号 MODEL	口径 CALIBER	流量 FLOW	密封 SEAL	重量 WEIGHT	材质 MATERIAL
内齿泵 Internal gear pump	NB-32E	1.5寸 (cun)	65ml/转(R)	填料/机封 Filler/mechanical seal	25 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157E	2.0寸 (cun)	350ml/转(R)	填料/机封 Filler/mechanical seal	50 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157EL	2.0寸 (cun)	525ml/转(R)	填料/机封 Filler/mechanical seal	55 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-210E	2.0寸 (cun)	800ml/转(R)	填料/机封 Filler/mechanical seal	70 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-210EQ	2.5寸法兰 (cun flange)	800ml/转(R)	填料/机封 Filler/mechanical seal	80 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-210EL	3.0寸法兰 (cun flange)	1050ml/转(R)	填料/机封 Filler/mechanical seal	125kg	球铁 Ductile iron



## 17、Internal Gear Pump

## 圆泡及PU机发泡计量泵

(foaming metering pump for round-foam and PU machine)



NB-20W/130W (HL4195)



NB-16W (台湾A10/HJ4195)



## PU、AB料、圆泡聚醚、平泡色浆、阻燃剂发泡计量泵样机

Models of foaming metering pump for PU, materials A and B, round-foam polyester, flat-foam color paste and flame retardant

## 产品介绍 PRODUCT DESCRIPTION

产品适用于：圆泡生产线 15Kg-65Kg 粉油的计量输送，齿轮为高碳钢经整体淬火，小轴套采用碳化硅套大大延长了使用寿命。在海绵连续发泡机上输送：MC 与 TDI 时具有压力稳定，流量更精准，缩短泡头长度等优点。在小流量 PU 低压发泡机 A,B 料计量输送时可各达到 50g/秒 -300g/秒，对于加粉原料特将齿轮整体淬火，并选用了碳化硅超耐磨轴套。内部装有多道防腐油封解决了输送泄漏问题，使生产车间空气更清新，环境更环保。另外对于特殊原料可根据用户要求设计不同材质与性能的泵实现真正意义上的非标定制。

The product can be applied to metering delivery of 15Kg-65Kg powder and oil on a round-foam production line. The gear is made of high-carbon steel of integral quenching. The small bushing is made of silicon carbide, so its service life is remarkably prolonged. When it delivers MC or TDI in a sponge continuous foaming machine, it has advantages such as stable pressure, more accurate flow and shortened foam head length. For metering delivery on a small-flow PU low pressure foaming machine, Materials A and B can reach 50g/s-300g/s respectively. For powder materials, the gear has gone through integral quenching and the super-wearable silicon carbide bushing is adopted. The several anticorrosive oil seals inside can solve the problem of delivery leakage, making the air in the production workshop fresher and the environment better. In addition, for special raw materials, pumps of different materials and performances can be designed according to the users' requirements so that non-standard customization in a real sense can be realized.

- 粘度范围 Viscosity range: 1.0cst到50.000cst
- 温度范围 Temperature range: -100℃到+180℃

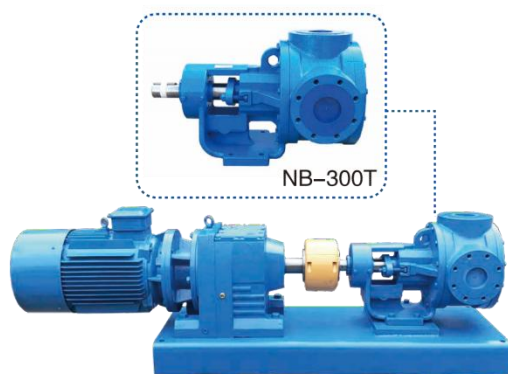
名称 NAME	型号 MODEL	口径 CALIBER	流量FLOW	密封 SEAL	重量 WEIGHT	材质 MATERIAL
内齿泵 Internal gear pump	NB-16W	1.0寸 (cun)	16ml/转(R)	防腐油封 Anticorrosive oil seal	11kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-40W	1.5寸 (cun)	40ml/转(R)	防腐油封 Anticorrosive oil seal	13kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-65W	1.5寸 (cun)	65ml/转(R)	防腐油封 Anticorrosive oil seal	13kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-80W	1.5寸 (cun)	80ml/转(R)	防腐油封 Anticorrosive oil seal	13kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-130W	1.5寸 (cun)	130ml/转(R)	防腐油封 Anticorrosive oil seal	18kg	球铁 Ductile iron



## 17、Internal Gear Pump

## 槽车卸料及管道输送泵

(tanker discharge and pipeline delivery pump)



NB-300T

PPG、POP、4寸大流量槽车卸料及管道输送泵样机

Models of 4-cun high-flow tanker discharge and pipeline delivery pump for PPG and POP

## 产品介绍 PRODUCT DESCRIPTION

产品适用于：聚氨酯化工原料 PPG,POP,TDI,MDI 的槽车卸料到大储存罐或大储存罐输送到发泡罐的远距离管道输送。连续发泡机上 PPG 与 POP; 大料的发泡计量输送与大储存罐到发泡罐的补料。另外我司承建过较多新建海绵厂及涂料；油墨；树脂化工厂齿轮泵远距离输送项目尤其在粘度化工原料的输送上积累了大量的应用数据，可为新建项目提供完整流体输送应用方案。为使泵能达到最佳的耐磨性小齿轮可根据不同化工原料的特性选择：复合轴套，JDB 耐磨铜套与碳化硅超耐磨套。使泵的使用寿命达到最佳效果。

The product can be applied to tanker discharge of polyurethane chemical materials such as PPG, POP, TDI, MDI to a large storage tank or long-distance pipeline delivery from a large storage tank to a foaming tank. Foaming metering delivery of PPG, POP and large materials on a continuous foaming machine and feeding from a large storage tank to a foaming tank. In addition, we have undertaken several gear pump long-distance delivery projects for newly-built sponge factories and paint, oil and resin chemical plants. Especially, we have accumulated a large quantity of application data about delivery of high-viscosity chemical materials and can provide application programs about complete fluid delivery for new projects. In order to make the pump have optimal abrasability, the small gear can be equipped with a compound bushing, JDB wearable copper bushing or super-wearable silicon carbide bushing according to the property of different chemical materials so that pump can have the longest service life.

- 粘度范围 Viscosity range: 1.0cst到200.000cst
- 温度范围 Temperature range: -120℃到+180℃

名称 NAME	型号 MODEL	口径 CALIBER	流量 FLOW	密封 SEAL	重量 WEIGHT	材质 MATERIAL
内齿泵 Internal gear pump	NB-136T	1.5寸(cun)	235ml/转(R)	机封/填料 Mechanical seal/filler	38 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157	2.0寸(cun)	350ml/转(R)	机封/填料 Mechanical seal/filler	50 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157L	2.0寸(cun)	525ml/转(R)	机封/填料 Mechanical seal/filler	55 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157T	2.0寸(cun)	350ml/转(R)	机封/填料 Mechanical seal/filler	52 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157TL	2.0寸(cun)	525ml/转(R)	机封/填料 Mechanical seal/filler	58 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-153J	2.0寸(cun)	460ml/转(R)	机封/填料 Mechanical seal/filler	85 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157F	2.0寸(cun)	350ml/转(R)	磁连密封 Magnetic seal	35 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-157FL	2.0寸(cun)	525ml/转(R)	磁连密封 Magnetic seal	38 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-210F	2.5寸法兰(cun flange)	800ml/转(R)	骨架机封 Framework mechanical seal	62 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-210FL	3.0寸法兰(cun flange)	1050ml/转(R)	防腐油封 Mechanical seal/filler	75 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-210T	3.0寸法兰(cun flange)	1050ml/转(R)	机封/填料 Mechanical seal/filler	120 kg	球铁 Ductile iron
内齿泵 Internal gear pump	NB-300T	4.0寸法兰(cun flange)	2500ml/转(R)	机封/填料 Mechanical seal/filler	230 kg	球铁 Ductile iron



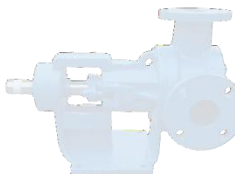
NB-136T



NB-157/157L



NB-157T/157TL(台湾泵A20/A25)



NB-153J



NB-157F/157FL/210F/210FL

NB-157F/157FL/210F/210FL  
大流量磁联减速机、聚氨酯原料  
输送泵样机

NB-210T

NB-210TJ(合金机械密封型)  
TDI、MDI、PPG、POP、3寸  
槽车卸料及管道输送泵样机

## 17、Internal Gear Pump

## 小料泵及补料泵

(small material pump and feeding pump)



NB-32X/FH (F32/FH32)



NB-32G (G32)



NB-32F



NB-32D



NB-106M



NB-106J



NB-106J: 合金机械密封型 TDI、MDI、MC 补料泵样机

NB-106J: Model of TDI, MDI and MC feeding pump with alloy mechanical seal

## 产品介绍 PRODUCT DESCRIPTION

产品适用于：连续发泡机上的小料及色浆的计量输送。PU 发泡机的补料泵与 200Kg 铁桶的抽料泵。大储存罐到发泡罐的补料泵。齿轮采用加工中心等多道工艺加工而成。高精密的设备确保了每台泵的制造精度，使用时具有低噪音，压力稳定，计量精准等优点。为使泵能达到最佳的耐磨性小齿轮可根据不同化工原料的特性选择：复合轴套，JDB 耐磨铜套与碳化硅超耐磨套。使泵的使用寿命延长至最佳。另外我司可为多组份连续发泡机提供不同流量计量齿轮泵的应用方案。

The product can be applied to metering delivery of small materials and color paste on a continuous foaming machine. Feeding pump for a PU foaming machine and transfer pump for an iron bucket of 200Kg. Feeding pump from a large storage tank to a foaming tank. The gear is processed through center machining and other technologies. The high-precision equipment can guarantee manufacturing precision of each pump and make the pump have advantages such as low noise, stable pressure and accurate metering. In order to make the pump have optimal abrasability, the small gear can be equipped with a compound bushing, JDB wearable copper bushing or super-wearable silicon carbide bushing according to the property of different chemical materials so that the pump can have the longest service life. In addition, we can provide application programs of metering gear pumps of different flows for the multi-constituent continuous foaming machine.

● 粘度范围 Viscosity range: 1.0cst到50.000cst

● 温度范围 Temperature range: -120℃到+180℃

名称 NAME	型号 MODEL	口径 CALIBER	流量 FLOW	密封 SEAL	重量 WEIGHT	材质 MATERIAL
内齿轮泵 Internal gear pump	NB-32X	0.5寸(cun)	4ml/转(R)	填料 Filler	3kg	球铁 Ductile iron
内齿轮泵 Internal gear pump	NB-32FH	0.5寸(cun)	8ml/转(R)	填料 Filler	3.3kg	球铁 Ductile iron
内齿轮泵 Internal gear pump	NB-32G	1.0寸(cun)	16ml/转(R)	填料 Filler	5kg	球铁 Ductile iron
内齿轮泵 Internal gear pump	NB-32F	1.5寸(cun)	65ml/转(R)	机封 Mechanical seal	10kg	球铁 Ductile iron
内齿轮泵 Internal gear pump	NB-32D	1.5寸(cun)	65ml/转(R)	机封 Mechanical seal	11 kg	球铁 Ductile iron
内齿轮泵 Internal gear pump	NB-106J	1.5寸(cun)	130ml/转(R)	机封 Mechanical seal	26kg	球铁 Ductile iron
内齿轮泵 Internal gear pump	NB-106M	1.5寸(cun)	130ml/转(R)	机封 Mechanical seal	15kg	球铁 Ductile iron



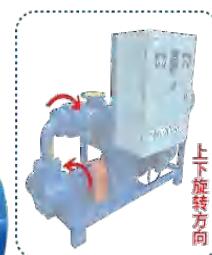
## 17、Internal Gear Pump



粉油混磨机(单机)  
Powder oil mixing mill (single machine)



粉油混磨一体机  
Powder oil mixed grinding integrated machine



## 产品介绍 PRODUCT DESCRIPTION

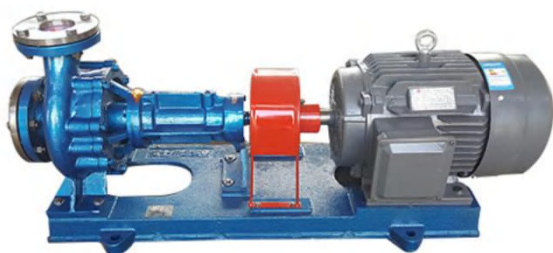
粉油混磨机主要应用于:家私绵;大力绵;生产过程中的普通聚醚与三聚氰胺或聚醚与石粉混合后进行高速剪切;研磨;乳化,分散;让其在发泡过程中与其它聚氨酯原料充分均匀混合在一起;化学反应更加充分;生产出更高品质的海绵。混磨机的工作流程:先将原料在地罐搅拌充分后再由泵抽到→粉油混磨机→输送到发泡罐等待发泡。工作效率可达2-8吨/h。(供料泵一定要加变频器来控制流量;通过控制流量才能达到您所需细度及研磨效果。)混磨机内部主要采用8片合金研磨片,结构完全根据高低粘度混合原料设计,原料进入混磨锥腔后会经过三组磨片高速剪切;研磨;乳化,分散;所有合金研磨片都由多形状组合而成;其中有:水滴孔,弧形槽,直腰槽,斜刀孔,通过这些不同规格的磨片将原料从不同角度甩出并经过多次研磨剪切让粉粒破碎,研磨后发现原料的比重有很大变化,粉与油充分溶解于一体,发泡后对海绵的手感,气孔,豆孔,有了明显改善。混磨机上市10年来通过众多用户信息反馈及数据分析后我司再次对配对合金磨片进行了二次优化升级研磨效果有了进一步提升。

The powder oil mixing mill is mainly used for: furniture foam; HI-POLY; High speed shearing of ordinary polyether mixed with melamine or polyether mixed with stone powder during the production process; grind; Emulsification and dispersion; Mix it thoroughly and evenly with other polyurethane raw materials during the foaming process; Chemical reactions are more complete; Produce higher quality sponges. The workflow of the mixing mill: First, mix the raw materials in the ground tank and then pump them to the → powder oil mixer → transport them to the foaming tank to wait for foaming. The work efficiency can reach 2-8 tons/h. (The feed pump must be equipped with a frequency converter to control the flow rate; By controlling the flow rate, you can achieve the desired fineness and grinding effect.) The mixing mill mainly uses 8 alloy grinding plates inside, and the structure is designed completely based on the high and low viscosity mixed raw materials. After entering the mixing cone cavity, the raw materials will undergo high-speed shearing by three sets of grinding plates; grind; Emulsification and dispersion; All alloy grinding plates are composed of a combination of multiple shapes; Among them, there are water droplet holes, arc-shaped grooves, straight waist grooves, and inclined knife holes. Through these different specifications of grinding discs, the raw materials are thrown out from different angles and subjected to multiple grinding and shearing to break the powder particles. After grinding, it was found that the specific gravity of the raw materials changed greatly, and the powder and oil were fully dissolved into one. After foaming, the hand feel, pores, and bean holes of the sponge were significantly improved. In the past 10 years since the launch of the hybrid grinding machine, our company has once again optimized and upgraded the paired alloy grinding discs through numerous user information feedback and data analysis, which has further improved the grinding effect.

名称 NAME	型号 MODEL	口径 CALIBER	流量 FLOW	密封 SEAL	重量 WEIGHT	材质 MATERIAL	电机功率 MOTOR POWER
粉油混磨机 Powder oil mixing mill	SXHM-822N	3.0寸法兰	1-8t	机封/填料 Mechanical seal/filler	330 kg	合金钢/球铁 Alloy Steel/ductile iron	22KW
粉油混磨机 Powder oil mixing mill	SXHM-830N	3.0寸法兰	1-8t	机封/填料 Mechanical seal/filler	380 kg	合金钢/球铁 Alloy Steel/ductile iron	30KW

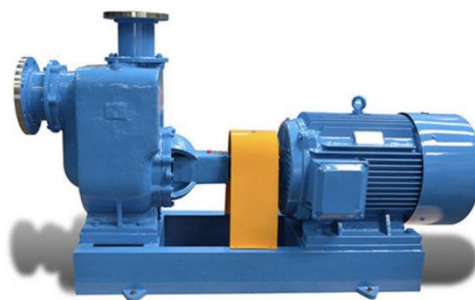


18、Centrifugal Pump



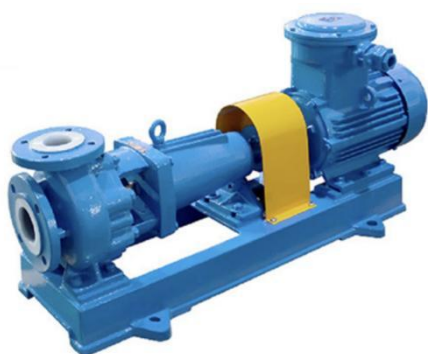
RY SERIES OF AIR COOLED HEAT PUMP

RY 系列风冷式热油泵



CYZ SERIES SELF-PRIMING CENTRIFUGAL OIL PUMP

CYZ 型自吸式离心油泵



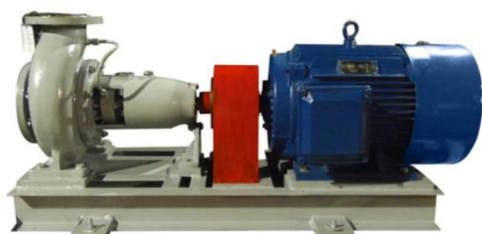
IHF SERIES FLUOROPLASTIC LINED  
CENTRIFUGAL PUMP

IHF 系列氟塑料衬里离心泵



AY TYPE SINGLE-STAGE/TWO STAGE  
CENTRIFUGAL PUMP

AY 型单两级离心油泵



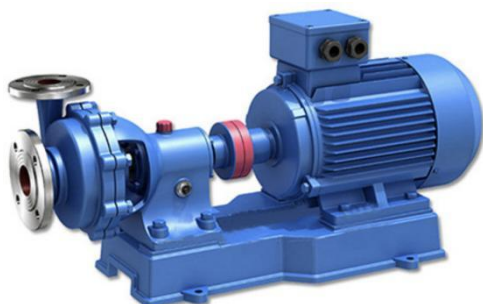
ZA SERIES PETROLEUM AND  
CHEMICALS PROCESS PUMP

ZA 系列石油化工流程泵



CZ TYPE SINGLE-STAGE SINGLE-SUCTION  
CANTIEVER CENTRIFUGAL PUMP

CZ 型单级单吸悬臂式离心泵



FB、AFB STAINLESS STEEL  
CORROSION-RESISTANCE CENTRIFUGAL PUMP

FB、AFB 型不锈钢耐腐蚀离心泵



WFB SERIES PACKINGLESS AUTOMATIC  
SELF-PRIMING PUMP

WFB 系列无密封自控自吸泵

## 19、Rotary Pump

### HIGH VISCOSITY HEAVY OIL ROTARY PUMP 高粘度稠油转子泵



●The high viscosity heavy oil rotary pump is mainly suitable for transporting media with high viscosity; In terms of oil pump selection, it is necessary to refer to the properties of the medium; The high viscosity heavy oil rotary pump produced by Shenghui Pump Industry adds insulation devices on the basis of the high viscosity rotary pump, which has the effect of insulating the pump liquid and preventing crystallization, making it an ideal high viscosity liquid delivery pump.

●Main components: Pump cover, small shaft, small shaft sleeve, small gear, internal gear, pump body, main shaft, main shaft sleeve, packing seal or mechanical seal, packing gland or sealing gland, pump seat, front bearing cover, bearing, rear bearing cover.

### GNB TYPE RING TYPE HIGH VISCOSITY PUMP GNB 型内环式高粘度转子泵



●The GNB type inner ring high viscosity rotor pump belongs to the positive displacement internal gear pump. The pump adopts a combination of positive displacement rotor and idler gear. The positive displacement rotor and idler gear combination of the pump has a good buffering effect during operation, which can achieve low shear and pulse free liquid delivery. The tooth shape of the internal gear is crown tooth shape, and the "inlet volume" of the internal gear pump chamber is surrounded by the crescent shaped wall surface of the pump body and the tooth surfaces of the two liquid sealing surfaces. During the continuous rotation of the gear, liquid is generated to achieve the purpose of transportation.

### 3RP SERIES ROTARY LOBE PUMP 3RP 型凸轮转子泵



●The 3RP cam rotor pump belongs to the rotary displacement pump, with high efficiency and long service life. It is suitable for conveying suspended liquids containing solid particles and media with high requirements for corrosiveness and hygiene at temperatures ranging from -30 °C to +180 °C and viscosities ranging from 30 to  $1.0 \times 10^5$  cSt. The internal parts of the pump body that come into contact with the media are made of stainless steel materials, and the pump speed can be changed according to the different physical characteristics of the media.

### SHGB TYPE OF ROTATING CAM FOLLOWER SHGB 旋转凸轮转子泵



●The SHGB rotary cam rotor pump adopts a modular floating mechanical seal instead of the existing spring thrust mechanical seal structure.

●The SHGB rotary cam rotor pump relies on two synchronously rotating rotors that produce suction (vacuum degree) at the inlet during the rotation process, thereby sucking in the material to be conveyed. The two rotors divide the rotor chamber into several small spaces and operate in the order of I → II → III → IV, and the medium is transported to the discharge port. In this cycle, the medium (material) is transported out.



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