2025版

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Honesty Practicality Cooperation and Win-win


**瑞安市展鵬机械有限公司**

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国家高新技术企业

ISO9001：2015

RAZP

瑞展鵬

# 高精度齒輪減速機

High precision gear reducer

## ▶ CH/CV小型減速電機

CH/CV small-size reduction motor

## 直交軸系列微特減速電機

Rectangular shaft series VT reduction motor

# 瑞安展鵬机械

**RUIAN ZHANPENG MACHINERY**

http://www.zpgearmotor.com


## 企業簡介

瑞安市展鵬機械有限公司，創辦于2011年，坐落于工業發達的浙江省瑞安市。公司致力于傳動設備的研發、生產制造和銷售，主要產品有平行軸系列微特交流減速電機、直交軸系列微特交流減速電機、CH/CV系列小型減速電機、高效高精度系列行星減速器。產品廣泛應用于金融機械、食品包裝機械、辦公機械、畜牧機械、醫藥機械、廣告設備、電子儀器和立體車庫等領域。先後通過了國家强制性產品認證（3C認證）、歐盟CE認證、ISO9001：2015質量體系認證等。

公司秉承“高科技・高質量・高信譽”的宗旨，一直致力爲自主研制，自我開發的路子。

我們熱情歡迎國内外新老朋友莅臨公司參觀指導，展鵬人期待與你握手，共同携手合作共創輝煌燦爛明天。

## Brief Introduction

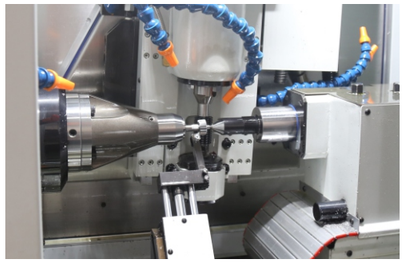
Ruian Zhanpeng Machinery Co., Ltd., founded in 2011,locating in Rui’an City of Zhejiang Province which features developed industry.The company is devoted to the R&D,manufacturing and sale of driving equipment,and the main products include:parallel axisseries VT AC reducer, rectangular axisseries VT AC reducer,CH/CV series small reducer,high efficiency and high precisionseries planetary reducer,The products are widely applied in the fields such as financial machinery,food packaging machinery,printing machinery,office machinery,livestock machinery, medical machinery,advertising equipment,electronic instruments and dimensional garage,The products have passed the China Compulsory Certification(3CCertification),European U nion CE Certification,ISO9001:2015 Quality Sytem Certification and so on.

Adhering to the principle of “high technology,high quality and high reputation”,our company has been dedicating self R&D all the time.

We warmly welcome the friends at home and abroad to our company for visiting and guidance, and Zhanpeng people are looking forward to shaking hands with you,and creating brilliant and bright future together.

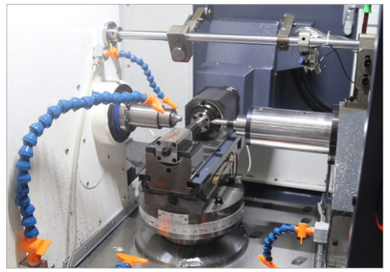
# 現代化的生產設備
## Modern production equipment





先进的自动化生产设备，流水线精密工序和装配，进行一流品质，技术专家直接参与生产，保证产品的稳定性和可靠性万无一失。与日俱增的精品意识和源源不断的创新产品赢得了广大客户的信任。

The company has advanced automatic production equipment to provide a strong guarantee for the accurate quality of products to ensure the stability and reliability of products. Technical experts participate in improving the understanding of quality and innovative products, and continue to win the high trust and recognition of customers.


# 目録
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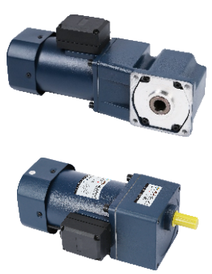
| 電源 Power Supply | 速度變化 Change of Speed | 剎車及保持力 Brake and Holding Power | 旋轉方向 Direction of Rotation | 馬達機種 Kinds of Motor | 馬達出力 Motor Output Force |
|---|---|---|---|---|---|
| 單相 Single-phase | 固定速度 Fixed Speed | 無保持力 No Holding Power | 單一方向 Single Direction | 感應性 Inductivity | 6W-200W |
| | | | | ● 連續額定 Continuous Rating<br>● 起動轉矩 Starting Torque / 額定轉矩 Rated Torque =0.7-1.0<br>● 一般動力用 For the use of common dynamic force<br>● 機種豐富 A wide range of varieties<br>● 用途廣泛 Widely Applicable | |
| | | 保持力 Holding Power | 頻繁正逆轉 Frequent Positive and Negative Rotation | 可逆式 Reversible | 6W-200W |
| | | | | ● 30分鐘額定 30-minute Rating<br>● 起動轉矩 Starting Torque / 額定轉矩 Rated Torque =0.8–1.2<br>● 頻繁正逆轉使用 For Frequent Positive and Negative Rotation<br>● 正逆轉切換簡單 Simple Shift between Positive and Negative Rotation<br>● 內藏簡易剎車裝置停止過轉小，具保持力 In-built simple braking device for stop with small excessive rotation, hence holding force | |
| | | 剎車及保持力 Brake and Holding Power | 正逆轉 Positive and Negative Rotation | 剎車馬達 Brake Motor | 6W–200W |
| | | | | ● 具安全剎車 Safe brake<br>● 剎車保持力大 Great brake maintaining power<br>● 機種豐富 A wide range of varieties | |
| | 速度自由變化 Optional Change of Speed | | | 變速馬達 Change Speed Motor | 6W–200W |
| | | | | ● 馬達與轉速發電機的結合成爲開路控制馬達 The combination of motor and tachometric dynamo makes an open loop control motor<br>● 速度控制簡單配綫容易 Simple to control over the speed and easy in wiring<br>● 速度變化寬廣 A wide range of speed change<br>● 具備剎車功能 Equipped with brake function | |
| 三相 Three-phase | | | | 感應性 Inductivity | 25W-200W |
| | | | | ● 功率大 High Power<br>● 高效率 High Efficiency<br>● 產業機械適合 Suitable for industrial machinery | |





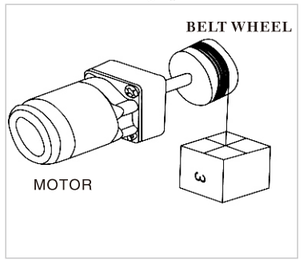


## 馬達容量的具體計算方法
## Method for calculating motor capacity

1、求馬達所需的容量時，如下列標示。此處爲一般的基本式。
2、實際使用時應考慮到加速時，巨大的瞬間負荷所需的動力，或者設計上的安全，電壓的變化所造成的影響之後，再選擇馬達

1、The method for calculating the required capacity of the motor is shown as below. The general basic form is introduced here.
2、The power for the enormous instantaneous load under acceleration during actual operation and the design safety and influence caused by the voltage change should be taken into consideration before selecting the motor

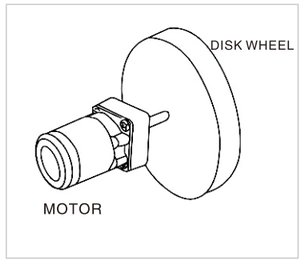
### （1）卷起荷重物時
### （1）When rolling up the load




$$Pg=\frac{\omega v}{6.12}\times\frac{100}{\eta}[w]$$

ω:荷重[kgf]
ω:Load weight[kgf]
V：速度[m/min]
V：Speed[m/min]
η:效率[%]
η:Efficieny[%]

### （2）驅動慣性體時
### （2）When driving the coasting body




Pg=1.027nT[W]
$Gd^2$包括回轉體的圓輪效果
$Gd^2$ includes the round wheel effect of the rotational part

$$T=\frac{GD^2}{375}\times\frac{n}{T}\ (kg/mx10^2)$$

n：回轉數[rpm]
n：revolutions per[rpm]
T：轉矩[kg・m]
T：Torque[kg・m]
$GD^2$：飛輪效率[kg・$m^2$]
$GD^2$：Flywheel efficiency[kg・$m^2$]
t：時間[sec]
t：Time[sec]

$$Pg=(P1+P2+P3)\times\frac{100}{\eta}\ [W]$$

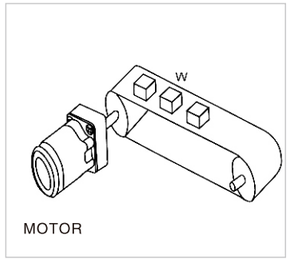
無負荷動力P1=9.8μωVL [W]
No load Dynamic powerP1=9.8μωVL [W]

水平動力 $P2=\frac{\mu QL}{367}$ [W]
Horizontal Dynamic power$P2=\frac{\mu QL}{367}$[W]

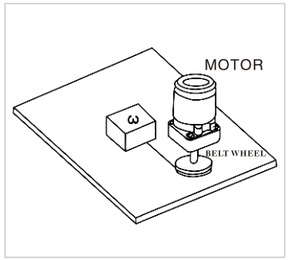
垂直動力$P2=\pm\frac{QH}{367}$ [W]
Vertical dynamic power $P2=\pm\frac{QH}{367}$[W]

L：運送帶的長度[m]
L: The length of conveying belt [m]
ω:環狀帶比量[kgf/m]
ω: The specific flow of the loop-shaped belt [kgf/m]
μ：摩擦系數]
μ：Coefficient of Friction
V：環狀帶的速度[m/sec]
V: The speed of the loop-shaped belt [m/sec]
Q：運送量[kgf/h]
Q: The conveying volume [kgf/h]
η：效率[%]
η：Efficiency[%]
H：傾斜運送機的兩端高低差[m]
H：height difference between the two ends of slop conveyer[m]

### （3）皮帶輸送時
### （3）When conveying with belt




### （4）把接觸面水平移動時
### （4）When moving the contact surfacehorizontally




$$Pg=\frac{\mu\omega v}{6.12}\ [W]$$

ω：荷重[kgf]
ω：Load weight[kgf]
V：速度[m/min]
V：Speed[m/min]
μ：摩擦系數
μ：Coefficient of friction
Pg：所需動力(W)
Pg：Required Dynamic power(W)

### （5）驅動導螺杆時
### （5）Drive the leadscrew

1)水平移動時
1)When moving horizontally

Pg=(P1+P2)[W]

外部負荷
External load

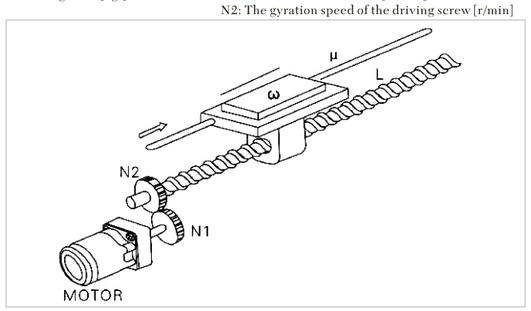
$$Pg=1.027N2K\frac{(F+\mu\omega)}{2\pi\eta}[W]$$

預壓負荷
Setting load

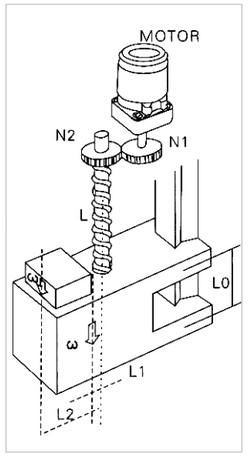
$$P2=1.027N2K\frac{Fao.L}{2\pi}[W]$$

F：切削力[kgf]
F: Cutting force [kgf]

ω：工作質量+工作臺質量[kgf/m]
ω：Work quality+Workbench Quality[kgf/m]
μ：滾動裝置的摩擦系數[0.01]
μ: The frictional coefficient of the rolling device [0.01]
L：導螺杆的LEAD[m]
L: The LEAD of driving screw [m]
η：導螺杆效率[0.9]
η: The efficiency of driving screw [0.9]
Fao：預壓荷重[kgf]
Fao: Setting load
K：預壓螺帽的內部摩擦系數[0.1–0.3]
K: The internal frictional coefficient of the driving cap [0.1-0.3]
N2：導螺杆的回旋速度[r/min]
N2: The gyration speed of the driving screw [r/min]




### （6）上下移動時
### （6）When moving up and down




Pa=(P1+P2)[W]
在此，外部負荷
Here, external load

$$P1=1.027N2\frac{(F+\mu\omega)L}{2\pi\eta}[W]$$

$$W=\frac{(\omega_1L_1+\omega_2L_2)}{Lo}[kgf]$$

預壓負荷
Setting load

$$P2=1.027N2K\frac{Fao\ L}{2\pi}[W]$$

ω1：工作質量 Work quality
ω2：工作臺質量 Workbench Quality
L1:導螺杆中心與工作重心的距離[m]
L1: The distance between the center of the driving screw and the center of working gravity [m]
L2:導螺杆中心與工作重心的距離[m]
L2: The distance between the center of the driving screw and the center of working gravity [m]
L0:工作臺脚之間的距離[m]
L0: The distance between the working table feet [m]
L：導螺杆的LEAD[m]
L: The LEAD of driving screw [m]
μ：滾動裝置的摩擦系數[0.01]
μ: The frictional coefficient of the rolling device [0.01]
Fao：預壓荷重
Fao: Setting load [kgf]
K：預壓螺帽的內部摩擦
K: The internal frictional coefficient of the driving cap [0.1-0.3]
系數 coefficient[0.1-0.3]
N2：導螺杆的回旋速度[r/min]
N2: The gyration speed of the driving screw [r/min]
η:導螺杆效率[0.9]
η: The efficiency of driving screw [0.9]

# 交流馬達、齒輪型號之選定 Micro and special electromotor

## 交流馬達型號之選定
The selection for AC motor and gear

| 4 | R | K | 25 | GN | A | □ |
|---|---|---|---|---|---|---|
| 外形尺寸 | 機種 | 馬達系列 | 出力 | 馬達軸形狀 | 電壓極數 | 其它附件 |

**外形尺寸** Overall Dimensions
- 2:60mm
- 3:70mm
- 4:80mm
- 5:90mm
- 6:100mm

**機種** Kinds
- I:感應式 I: Inductive
- R:可逆式 R: Reversible
- T:轉矩馬達 T: Torque Motor

**馬達系列** Motor Series
- K系列 K Series

**出力** Output Force
- 15=15W
- 20=20W
- 25=25W
- 30=30W
- 40=40W
- 60=60W
- 90=90W
- 120=120W
- 140=140W
- 160=160W
- 180=180W
- 200=200W
- 250=250W
- 370=370W

**馬達軸形狀** Motor Axis Shape
- A圓柱軸 A Cylinder Axis
- GN螺旋齒軸（標準型 GN 齒輪箱） GN Spiral Toothing Axis (match with GN gear box)
- GU螺旋齒軸（加强型 GU 齒輪箱） GU Spiral Toothing Axis (match with GU gear box)

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

**電壓極數** Voltage Poles
- A=1 ϕ 110V4P
- B=1 ϕ 110V2P
- C=1 ϕ 220V4P
- D=1 ϕ 220V2P
- S=3 ϕ 220V4P
- U=3 ϕ 380V4P
- W=3 ϕ 440V4P
- Y=3 ϕ 220/380V4P
- Z=3 ϕ 220/440V4P
- H=3 ϕ 380V2P

**其它附件** Other Accessories
- F:风扇 F: Fan
- M:电磁刹车 M:Electromagnetic Brake
- Z:机械阻尼 Z: mechanical damping
- T:接线盒 T: Terminal Box
- P:温度开关 P: Temperature Switch

## 齒輪型號之選定
The selection for AC motor

| 4 | GN | 100 | K |
|---|---|---|---|
| 外形尺寸 | 齒輪種類 | 減速比 | 齒輪軸承種類 |

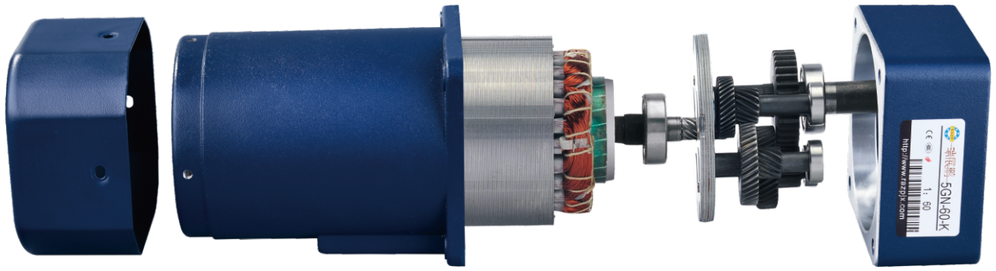

**外形尺寸** Overall Dimensions
- 2:60mm
- 3:70mm
- 4:80mm
- 5:90mm
- 6:100mm

**齒輪種類** Kinds of Gears
- GN 一般形齒輪箱 GN Common Gear Box
- GU 加强形齒輪箱 GU Reinforced Gear Box
- GS 加强形齒輪箱 GS Reinforced Gear Box

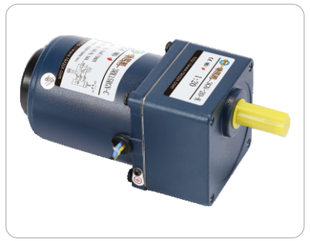
**減速比** Speed Reducing Ratio
- 1/100
- 10x表示中間齒輪 10x stands for the intermediate gear

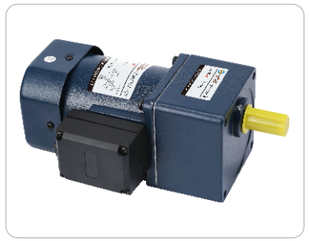
**齒輪軸承種類** Kinds of Gear Bearings
- K=滚珠軸承 K= Ball Bearing
- B=含油軸承（合銅） B= Oil-retaining Bearing (copper contained) copper alloy

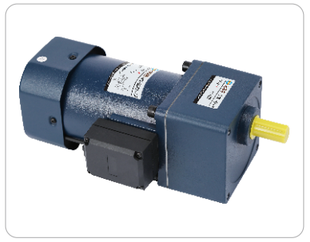
## 產品模塊化組合體系
MODULAR COMBINED SYSTEM OF PRODUCT



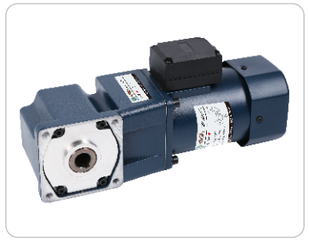












# 6/10W

□60mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 額定扭矩 Rated Torque mN.m | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|
| 2RK-6GN-A | 可逆式 Reversible | 6 | 單相 1-phase 110 | 50 | 0.26 | 60 | 47 | 1200 | 4μF/250V |
| | | | | 60 | 0.23 | 55 | 38 | 1450 | |
| 2IK-6GN-A | 感應 Induction | | | 50 | 0.24 | 55 | 47 | 1200 | 3.5.μF/250V |
| | | | | 60 | 0.25 | 50 | 38 | 1450 | |
| 2RK-6GN-C | 可逆式 Reversible | 6 | 單相 1-phase 220 | 50 | 0.14 | 55 | 48 | 1200 | 1.0μF/450V |
| 2IK-6GN-C | 感應 Induction | | | 50 | 0.13 | 50 | 48 | 1200 | 0.8μF/450V |
| 2RK-10GN-C | 可逆式 Reversible | 10 | 單相 1-phase 220 | 50 | 0.2 | 80 | 79 | 1200 | 1.0μF/450V |
| | | | | 60 | 0.23 | 75 | 69 | 1450 | |
| 2IK-10GN-C | 感應 Induction | 10 | | 50 | 0.16 | 80 | 79 | 1200 | |
| | | | | 60 | 0.2 | 75 | 69 | 1450 | |
| 2RK-10GN-A | 可逆式 Reversible | 10 | 單相 1-phase 110 | 50 | 0.28 | 85 | 78 | 1200 | 4.5μF/250V |
| | | | | 60 | 0.31 | 80 | 71 | 1450 | |
| 2IK-10GN-A | 感應 Induction | 10 | | 50 | 0.25 | 85 | 78 | 1200 | |
| | | | | 60 | 0.29 | 80 | 71 | 1450 | |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 417 | 300 | 250 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 41 | 37 | 30 | 25 | 20 | 16 | 15 | 12.5 | 10 | 8.3 | 7.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 3.6 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 90 | 100 | 120 | 150 | 180 | 200 |
| 最大允許負載 Max allowable load | 6W | kg.cm | 1.3 | 1.6 | 2.32 | 2.67 | 3.3 | 4.5 | 5.5 | 6.2 | 7.3 | 8.1 | 9.7 | 11.2 | 13.8 | 15.2 | 17.1 | 21.2 | 25.3 | 29.6 | 3.0 | | | | |
| | | N.m | 0.13 | 0.16 | 0.22 | 0.26 | 0.32 | 0.43 | 0.53 | 0.6 | 0.72 | 0.8 | 0.96 | 1.1 | 1.38 | 1.5 | 1.7 | 2.1 | 2.5 | 2.9 | | | | | |
| | 10W | kg.cm | 2.1 | 2.51 | 3.42 | 4.1 | 5.3 | 6.7 | 8.7 | 10.1 | 11.6 | 12.9 | 16.2 | 19.2 | 23.1 | 26.2 | 28.2 | 3.0 | | | | | | | |
| | | N.m | 0.2 | 0.25 | 0.34 | 0.4 | 0.51 | 0.67 | 0.86 | 1.0 | 1.15 | 1.28 | 1.6 | 1.92 | 2.3 | 2.6 | 2.8 | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情况存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

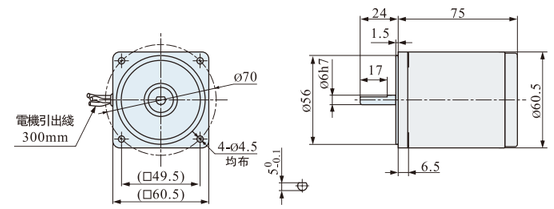
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





## 圓軸型
Circular shaft type

2IK-6A-C　2RK-6A-C
2IK-6A-A　2RK-6A-C

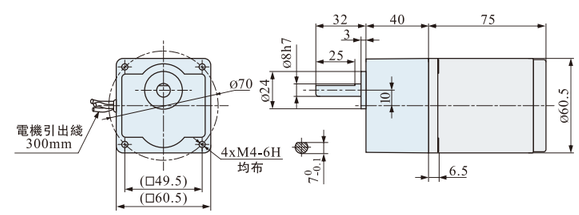



結構：電動機
重量：0.85kg

Structure: Electric motor
Weight: 0.85kg

## 定速型 Optical axis type　齒輪品名 Name of Gear 2GN □K

2IK-6GN-C　2RK-6GN-C
2IK-6GN-A　2RK-6GN-A

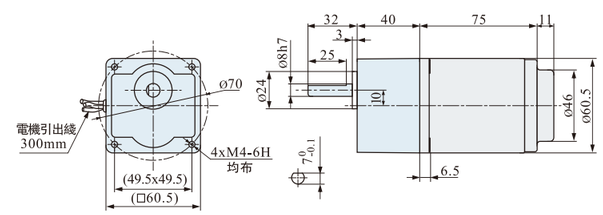



結構：減速器+電動機
重量：1.17kg
減速比：1:3-1:200

Structure: Reducer+Electric motor
Weight: 1.17kg
Speed Reducing Ratio: 1:3-1:200

## 調速型 Speed regulation type　齒輪品名 Name of Gear 2GN □K

2IK-6RGN-C　2RK-6RGN-C
2IK-6RGN-A　2RK-6RGN-A




結構：減速器+電動機+調速器
重量：1.2kg
減速比：1:3-1:200

Structure: Reducer+Electric motor+Speed governor
Weight: 1.2kg
Speed Reducing Ratio: 1:3-1:200

# 15/20W

□70mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3IK15GN-C 3IK15A-C | 感應 Induction | 15 | 單相 1-phase 220 | 50 | 0.15 | 143 | 1430 | 115 | 1150 | 1250 | 1.2/450 |
| | | | | 60 | 0.14 | 120 | 1200 | 95.5 | 955 | 1500 | 1.2/450 |
| 3RK15GN-C 3RK15A-C | 可逆 Reversible | | | 50 | 0.16 | 187 | 1870 | 150 | 1500 | 1250 | 1.5/450 |
| | | | | 60 | 0.18 | 158 | 1580 | 127 | 1270 | 1500 | 1.5/450 |
| 3IK15GN-A 3IK15A-A | 感應 Induction | 15 | 單相 1-phase 110 | 50 | 0.33 | 143 | 1430 | 115 | 1150 | 1250 | 5/250 |
| | | | | 60 | 0.30 | 120 | 1200 | 95.5 | 955 | 1500 | 5/250 |
| 3RK15GN-A 3RK15A-A | 可逆 Reversible | | | 50 | 0.36 | 187 | 1870 | 150 | 1500 | 1250 | 6/250 |
| | | | | 60 | 0.38 | 158 | 1580 | 127 | 1270 | 1500 | 6/250 |
| 3IK15GN-U 3IK15A-U | — | 15 | 三相 3-phase 380 | 50 | 0.06 | 143 | 1430 | 115 | 1150 | 1250 | — |
| | | | | 60 | 0.055 | 120 | 1200 | 95.5 | 955 | 1500 | — |
| 3RK15GN-S 3RK15A-S | — | 15 | 三相 3-phase 220 | 50 | 0.1 | 143 | 1430 | 115 | 1150 | 1250 | — |
| | | | | 60 | 0.1 | 120 | 1200 | 95.5 | 955 | 1500 | — |
| 3IK20GN-C 3IK20A-C | 感應 Induction | 20 | 單相 1-phase 220 | 50 | 0.22 | 187 | 1870 | 150 | 1500 | 1250 | 1.8/450 |
| | | | | 60 | 0.22 | 158 | 1580 | 127 | 1270 | 1500 | 1.8/450 |
| 3RK20GN-C 3RK20A-C | 可逆 Reversible | | | 50 | 0.26 | 187 | 1870 | 150 | 1500 | 1300 | 1.8/450 |
| | | | | 60 | 0.28 | 158 | 1580 | 127 | 1270 | 1550 | 1.8/450 |
| 3IK20GN-A 3IK20N-A | 感應 Induction | 20 | 單相 1-phase 110 | 50 | 0.45 | 187 | 1870 | 150 | 1500 | 1250 | 8/250 |
| | | | | 60 | 0.46 | 158 | 1580 | 127 | 1270 | 1500 | 8/250 |
| 3RK20GN-A 3RK20A-A | 可逆 Reversible | | | 50 | 0.54 | 187 | 1870 | 150 | 1500 | 1300 | 10/250 |
| | | | | 60 | 0.58 | 158 | 1580 | 127 | 1270 | 1550 | 9/250 |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7.5 | 6 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 |
| 最大允許負載 Max allowable load | 15W | kg.cm | 2.86 | 4.81 | 5.67 | 7.51 | 9.46 | 11.8 | 14.7 | 17 | 21.5 | 23.5 | 30.6 | 34.1 | 39.27 | 47.1 | 50 | | | | | | | |
| | | N.m | 0.28 | 0.48 | 0.56 | 0.75 | 0.93 | 1.18 | 1.47 | 1.67 | 2.15 | 2.35 | 3.01 | 3.34 | 3.92 | 4.7 | 4.9 | | | | | | | |
| | 20W | kg.cm | 3.52 | 5.80 | 7.56 | 8.74 | 12.6 | 14.5 | 17.15 | 22.6 | 26.1 | 30.4 | 40.8 | 45.5 | 50 | | | | | | | | | |
| | | N.m | 0.35 | 0.58 | 0.75 | 0.87 | 1.24 | 1.45 | 1.71 | 2.23 | 2.61 | 3.04 | 4.01 | 4.4 | 4.9 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

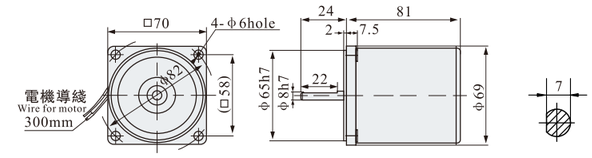
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





## 圓軸型
Circular shaft type

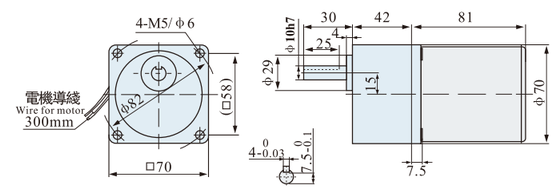
3IK15A-A 3RK15A-A
3IK15A-C 3RK15A-C
3IK15A-Y 3RK15A-Y




結構：電動機 Structure：Electric motor
重量：1.1kg Weight：1.1kg

## 定速型 Optical axis type　齒輪品名 Name of Gear 3GN□K

3IK15GN-A 3RK15GN-A
3IK15GN-C 3RK15GN-C
3IK15GN-CZ 3RK15GN-CZ
3IK15GN-Y 3RK15GN-Y

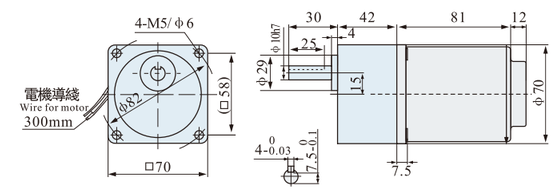



結構：減速器+電動機
重量：1.6kg
減速比：1:3-1:250

Structure：Reducer+Electric motor
Weight：1.6kg
Speed Reducing Ratio：1:3-1:250

## 調速型 Speed regulation type　齒輪品名 Name of Gear 3GN□K

3RK15RGN-A 3IK15RGN-A
3IK15RGN-C 3IK15RGN-C

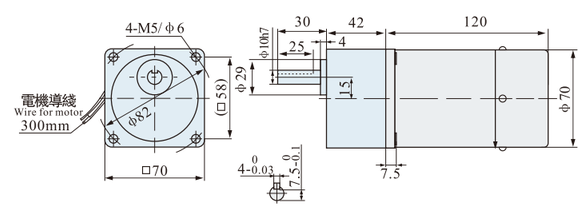



結構：減速器+電動機+調速器
重量：1.7kg
減速比：1:3-1:250

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：1.7kg
Speed Reducing Ratio：1:3-1:250

## 剎車定速型 Brake Optical axis type　齒輪品名 Name of Gear 3GN□K

3IK15GN-AM 3RK15GN-AM
3IK15GN-CM 3RK15GN-CM
3IK15GN-YM 3RK15GN-YM

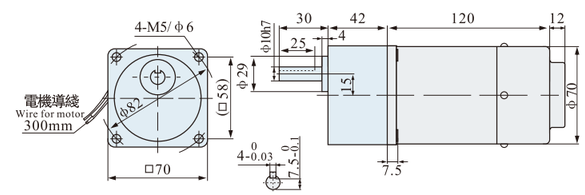



結構：減速器+電動機+剎車器
重量：1.9kg
減速比：1:3-1:250

Structure：Reducer+Electric motor+Brake
Weight：1.9kg
Speed Reducing Ratio：1:3-1:250

## 剎車調速型 Brake Speed regulation type　齒輪品名 Name of Gear 3GN□K

3IK15RGN-CM 3RK15RGN-CM
3IK15RGN-AM 3RK15RGN-AM




結構：減速器+電動機+剎車器+調速器
重量：2.0kg
減速比：1:3-1:250

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：2.0kg
Speed Reducing Ratio：1:3-1:250

# 25/30W

## □80mm

## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4IK25GN-C 4IK25A-C | 感應 Induction | 25 | 單相 1-phase 220 | 50 | 0.22 | 231 | 2310 | 185 | 1850 | 1250 | 1.5/450 |
| | | | | 60 | 0.21 | 192 | 1920 | 154 | 1540 | 1550 | 1.5/450 |
| 4RK25GN-C 4RK25A-C | 可逆 Reversible | | | 50 | 0.24 | 231 | 2310 | 185 | 1850 | 1250 | 2/450 |
| | | | | 60 | 0.26 | 192 | 1920 | 154 | 1540 | 1550 | 2/450 |
| 4IK25GN-A 4IK25A-A | 感應 Induction | 25 | 單相 1-phase 110 | 50 | 0.48 | 231 | 2310 | 185 | 1850 | 1250 | 6/250 |
| | | | | 60 | 0.46 | 192 | 1920 | 154 | 1540 | 1550 | 6/250 |
| 4RK25GN-A 4RK25A-A | 可逆 Reversible | | | 50 | 0.50 | 231 | 2310 | 185 | 1850 | 1250 | 8/250 |
| | | | | 60 | 0.56 | 192 | 1920 | 154 | 1540 | 1550 | 8/250 |
| 4IK25GN-U 4IK25A-U | — | 25 | 三相 3-phase 380 | 50 | 0.14 | 231 | 2310 | 185 | 1850 | 1250 | — |
| | | | | 60 | 0.12 | 192 | 1920 | 154 | 1540 | 1550 | — |
| 4RK25GN-S 4RK25A-S | — | 25 | 三相 3-phase 220 | 50 | 0.24 | 231 | 2310 | 185 | 1850 | 1250 | — |
| | | | | 60 | 0.225 | 192 | 1920 | 154 | 1540 | 1550 | — |
| 4IK30GN-C 4IK30A-C | 感應 Induction | 30 | 單相 1-phase 220 | 50 | 0.28 | 275 | 2750 | 220 | 2200 | 1250 | 2.2/450 |
| | | | | 60 | 0.3 | 231 | 2310 | 185 | 1850 | 1550 | 2.2/450 |
| 4RK30GN-C 4RK30A-C | 可逆 Reversible | | | 50 | 0.3 | 275 | 2750 | 220 | 2200 | 1250 | 2.5/450 |
| | | | | 60 | 0.32 | 231 | 2310 | 185 | 1850 | 1550 | 2.5/450 |
| 4IK30GN-A 4IK30A-A | 感應 Induction | 30 | 單相 1-phase 110 | 50 | 0.58 | 275 | 2750 | 220 | 2200 | 1250 | 8/250 |
| | | | | 60 | 0.60 | 231 | 2310 | 185 | 1850 | 1550 | 8/250 |
| 4RK30GN-A 4RK30A-A | 可逆 Reversible | | | 50 | 0.60 | 275 | 2750 | 220 | 2200 | 1250 | 10/250 |
| | | | | 60 | 0.65 | 231 | 2310 | 185 | 1850 | 1550 | 10/250 |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 |
| 最大允許負載 Max allowable load | 25W | kg.cm | 4.5 | 7.9 | 9.46 | 12 | 15.7 | 19 | 23 | 28.4 | 31.5 | 35 | 42 | 51.1 | 56.7 | 62 | 76.6 | 80 | | | | | | | |
| | | N.m | 0.45 | 0.79 | 0.93 | 1.18 | 1.55 | 1.86 | 2.25 | 2.78 | 3.1 | 3.43 | 4.12 | 5.01 | 5.57 | 6.18 | 7.52 | 7.84 | | | | | | | |
| | 30W | kg.cm | 5.7 | 8.1 | 11.3 | 14.2 | 18.9 | 23.6 | 28.3 | 34 | 37.8 | 42.5 | 51.1 | 60.2 | 68.1 | 65.7 | 80 | | | | | | | | |
| | | N.m | 0.56 | 0.8 | 1.1 | 1.39 | 1.85 | 2.32 | 2.78 | 3.34 | 3.7 | 4.17 | 5.01 | 6.01 | 6.68 | 6.5 | 7.84 | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

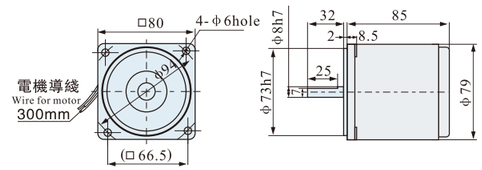
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





### 圓軸型
Circular shaft type

4IK25A-A　4RK25A-A
4IK25A-C　4RK25A-C
4IK25A-Y　4RK25A-Y

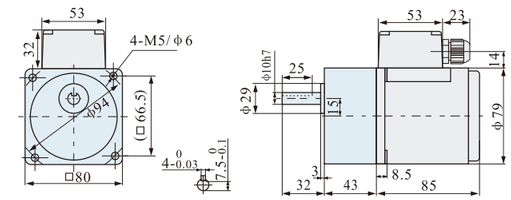



結構：電動機
重量：1.5kg

Structure：Electric motor
Weight：1.5kg

### 帶端子箱型 With terminal box type　齒輪品名 Name of Gear 4GN□K

4IK25GN-AT　4RK25GN-AT
4IK25GN-CT　4RK25GN-CT
4IK25GN-UT　4RK25GN-UT
4IK25GN-ST　4RK25GN-ST

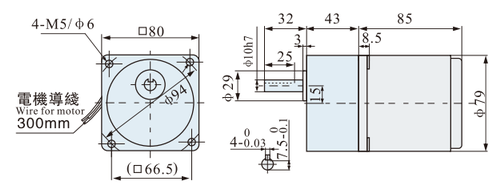



結構：減速器+電動機+端子箱
重量：2.2kg
減速比：1:3-1:300

Structure：Reducer+Electric motor+Terminal box
Weight：2.2kg
Speed Reducing Ratio：1:3-1:300

### 定速型 Optical axis type　齒輪品名 Name of Gear 4GN□K

4IK25GN-A　4RK25GN-A
4IK25GN-C　4RK25GN-C
4IK25GN-CZ　4RK25GN-CZ
4IK25GN-Y　4RK25GN-Y

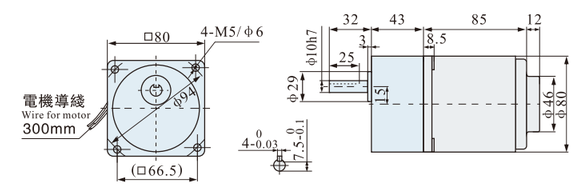



結構：減速器+電動機
重量：2.1kg
減速比：1:3-1:300

Structure：Reducer+Electric motor
Weight：2.1kg
Speed Reducing Ratio：1:3-1:300

### 調速型 Speed regulation type　齒輪品名 Name of Gear 4GN□K

4IK25RGN-A　4RK25RGN-A
4IK25RGN-C　4RK25RGN-C

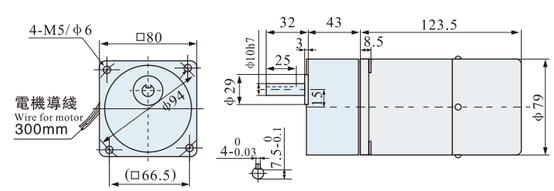



結構：減速器+電動機+調速器
重量：2.2kg
減速比：1:3-1:300

Structure：Reducer+Electric motor+Speed governor
Weight：2.2kg
Speed Reducing Ratio：1:3-1:300

### 剎車定速型 Brake Optical axis type　齒輪品名 Name of Gear 4GN□K

4IK25GN-AM　4RK25GN-AM
4IK25GN-CM　4RK25GN-CM
4IK25GN-YM　4RK25GN-YM

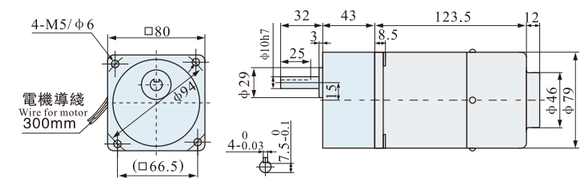



結構：減速器+電動機+剎車器
重量：2.4kg
減速比：1:3-1:300

Structure：Reducer+Electric motor+Brake
Weight：2.4kg
Speed Reducing Ratio：1:3-1:300

### 剎車調速型 Brake Speed regulation type　齒輪品名 Name of Gear 4GN□K

4IK25RGN-AM　4RK25RGN-AM
4IK25RGN-CM　4RK25RGN-CM




結構：減速器+電動機+剎車器+調速器
重量：2.5kg
減速比：1:3-1:300

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：2.5kg
Speed Reducing Ratio：1:3-1:300

# 40W

## □90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK40GU-C 5IK40A-C | 感應 Induction | 40 | 單相 1-phase 220 | 50 | 0.35 | 367 | 3670 | 294 | 2940 | 1300 | 2.5/450 |
| | | | | 60 | 0.33 | 307 | 3070 | 246 | 2460 | 1550 | 2.5/450 |
| 5RK40GU-C 5RK40A-C | 可逆 Reversible | | | 50 | 0.38 | 367 | 3670 | 294 | 2940 | 1300 | 3.0/450 |
| | | | | 60 | 0.4 | 307 | 3070 | 246 | 2460 | 1550 | 3.0/450 |
| 5IK40GU-A 5IK40A-A | 感應 Induction | 40 | 單相 1-phase 110 | 50 | 0.70 | 367 | 3670 | 294 | 2940 | 1300 | 10/250 |
| | | | | 60 | 0.72 | 307 | 3070 | 246 | 2460 | 1550 | 10/250 |
| 5RK40GU-A 5RK40A-A | 可逆 Reversible | | | 50 | 0.76 | 367 | 3670 | 294 | 2940 | 1300 | 12/250 |
| | | | | 60 | 0.80 | 307 | 3070 | 246 | 2460 | 1550 | 12/250 |
| 5IK40GU-U 5IK40A-U | —— | 40 | 三相 3-phase 380 | 50 | 0.24 | 367 | 3670 | 294 | 2940 | 1300 | —— |
| | | | | 60 | 0.22 | 307 | 3070 | 246 | 2460 | 1550 | —— |
| 5RK40GU-S 5RK40A-S | —— | 40 | 三相 3-phase 220 | 50 | 0.42 | 367 | 3670 | 294 | 2940 | 1300 | —— |
| | | | | 60 | 0.38 | 307 | 3070 | 246 | 2460 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 40W | kg.cm | 7.3 | 12 | 14.5 | 18 | 24.2 | 30 | 36 | 43.6 | 55 | 65.5 | 78 | 87 | 98 | 100 | | | | | | | | | |
| | | N.m | 0.72 | 1.18 | 1.43 | 1.77 | 2.4 | 2.94 | 3.53 | 4.28 | 5.0 | 6.24 | 7.7 | 8.57 | 9.64 | 9.81 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

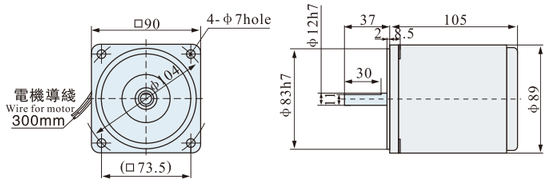
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





### 圓軸型
Circular shaft type

5IK40A-A　5RK40A-A
5IK40A-C　5RK40A-C
5IK40A-Y　5RK40A-Y

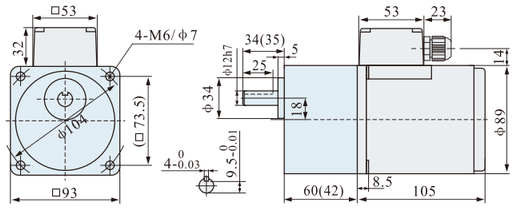



結構：電動機　Structure：Electric motor
重量：2.3kg　Weight：2.3kg

### 帶端子箱型
With terminal box type

**齒輪品名** Name of Gear 5GU□K

5IK40GM-AT　5RK40GM-AT
5IK40GM-CT　5RK40GM-CT
5IK40GM-U(Y)T　5RK40GM-U(Y)T
5IK40GM-ST　5RK40GM-ST

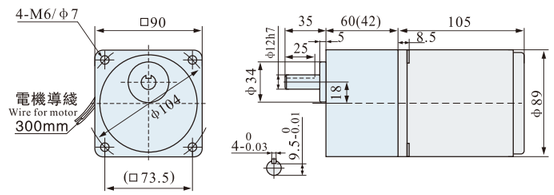



結構：減速器+電動機+端子箱　Structure：Reducer+Electric motor+Terminal box
重量：3.5kg　Weight：3.5kg
減速比：1:3–1:500　Speed Reducing Ratio：1:3-1:500

### 定速型
Optical axis type

**齒輪品名** Name of Gear 5GU□K

5IK40GU-A　5RK40GU-A
5IK40GU-C　5RK40GU-C
5IK40GU-CZ　5RK40GU-CZ
5IK40GU-Y　5RK40GU-Y

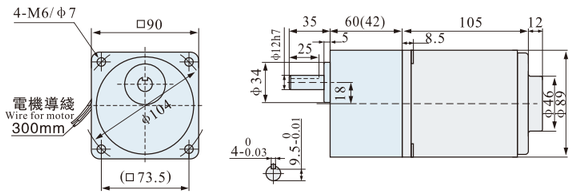



結構：減速器+電動機　Structure：Reducer+Electric motor
重量：3.4kg　Weight：3.4kg
減速比：1:3–1:500　Speed Reducing Ratio：1:3-1:500

### 調速型
Speed regulation type

**齒輪品名** Name of Gear 5GU□K

5IK40RGU-A　5RK40RGU-A
5IK40RGU-C　5RK40RGU-C

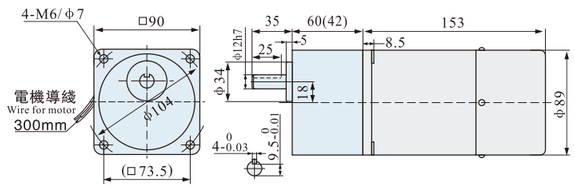



結構：減速器+電動機+調速器　Structure：Reducer+Electric motor+Speed governor
重量：3.5kg　Weight：3.5kg
減速比：1:3–1:500　Speed Reducing Ratio：1:3-1:500

### 剎車定速型
Brake Optical axis type

**齒輪品名** Name of Gear 5GU□K

5IK40GU-AM　5RK40GU-AM
5IK40GU-CM　5RK40GU-CM
5IK40GU-YM　5RK40GU-YM



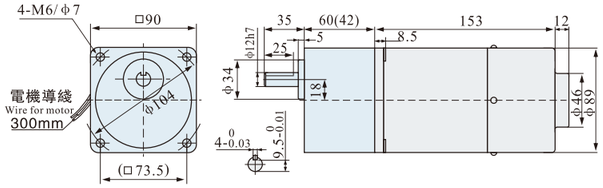

結構：減速器+電動機+剎車器
重量：3.7kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake
Weight：3.7kg
Speed Reducing Ratio：1:3-1:500

### 剎車調速型
Brake Speed regulation type

**齒輪品名** Name of Gear 5GU□K

5IK40RGU-AM　5RK40RGU-AM
5IK40RGU-CM　5RK40RGU-CM




結構：減速器+電動機+剎車器+調速器
重量：3.8kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：3.8kg
Speed Reducing Ratio：1:3-1:500

# 60W

## □90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK60GU-CF 5IK60A-CF | 感應 Induction | 60 | 單相 1-phase 220 | 50 | 0.45 | 551 | 5510 | 441 | 4410 | 1350 | 3.5/450 |
| | | | | 60 | 0.48 | 462 | 4620 | 370 | 3700 | 1550 | 3.5/450 |
| 5RK60GU-CF 5RK60A-CF | 可逆 Reversible | | | 50 | 0.5 | 837 | 8370 | 670 | 6700 | 1350 | 4/450 |
| | | | | 60 | 0.52 | 692 | 6920 | 554 | 5540 | 1550 | 4/450 |
| 5IK60GU-AF 5IK60A-AF | 感應 Induction | 60 | 單相 1-phase 110 | 50 | 0.90 | 551 | 5510 | 441 | 4410 | 1350 | 14/250 |
| | | | | 60 | 0.88 | 462 | 4620 | 370 | 3700 | 1550 | 14/250 |
| 5RIK60GU-AF 5RK60A-AF | 可逆 Reversible | | | 50 | 1.0 | 837 | 8370 | 670 | 6700 | 1350 | 16/250 |
| | | | | 60 | 1.2 | 692 | 6920 | 554 | 5540 | 1550 | 16/250 |
| 5IK60GU-UF 5IK60A-UF | —— | 60 | 三相 3-phase 380 | 50 | 0.30 | 551 | 5510 | 441 | 4410 | 1350 | —— |
| | | | | 60 | 0.28 | 462 | 4620 | 370 | 3700 | 1550 | —— |
| 5RK60GU-SF 5RK60A-SF | —— | 60 | 三相 3-phase 220 | 50 | 0.52 | 551 | 5510 | 441 | 4410 | 1350 | —— |
| | | | | 60 | 0.48 | 462 | 4620 | 370 | 3700 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 375 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 4 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 60W | kg.cm | 11 | 14.6 | 18 | 21.8 | 27 | 36 | 41 | 50 | 65 | 81 | 98 | 117 | 130 | 147 | 200 | | | | | | | | | |
| | | N.m | 1.08 | 1.42 | 1.77 | 2.14 | 2.64 | 3.57 | 4.02 | 4.80 | 6.24 | 8.03 | 9.64 | 11.5 | 12.8 | 14.4 | 19.6 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

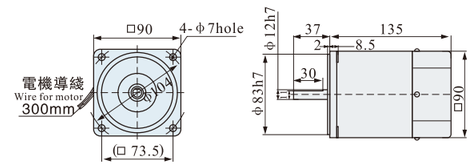
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





### 圓軸型
Circular shaft type

| | 齒輪品名 Name of Gear 5GU□K |
|---|---|
| 5IK60A-AF | 5RK60A-AF |
| 5IK60A-CF | 5RK60A-CF |
| 5IK60A-YF | 5RK60A-YF |

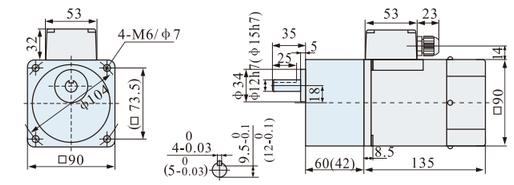



結構：電動機
重量：2.6kg

Structure：Electric motor
Weight：2.6kg

### 帶端子箱型
With terminal box type

| | 齒輪品名 Name of Gear 5GU□K |
|---|---|
| 5IK60GU-AFT | 5RK60GU-AFT |
| 5IK60GU-CFT | 5RK60GU-CFT |
| 5IK60GU-U(Y)FT | 5RK60GU-U(Y)FT |
| 5IK60GU-SFT | 5RK60GU-SFT |

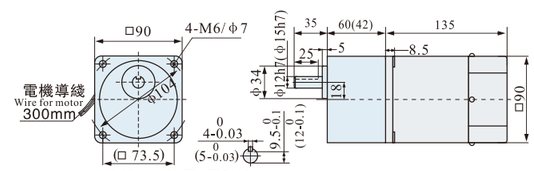



結構：減速器+電動機+端子箱
重量：3.9kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Terminal box
Weight：3.9kg
Speed Reducing Ratio：1:3-1:500

### 定速型
Optical axis type

| | 齒輪品名 Name of Gear 5GU□K |
|---|---|
| 5IK60GU-AF | 5RK60GU-AF |
| 5IK60GU-CF | 5RK60GU-CF |
| 5IK60GU-YF | 5RK60GU-YF |

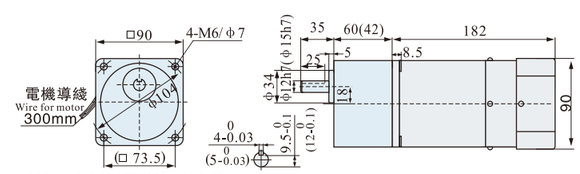



結構：減速器+電動機
重量：3.8kg
減速比：1:3–1:500

Structure：Reducer+Electric motor
Weight：3.8kg
Speed Reducing Ratio：1:3-1:500

### 剎車定速型
Brake Optical axis type

| | 齒輪品名 Name of Gear 5GU□K |
|---|---|
| 5IK60GU-AFM | 5RK60GU-AFM |
| 5IK60GU-CFM | 5RK60GU-CFM |
| 5IK60GU-YFM | 5RK60GU-YFM |

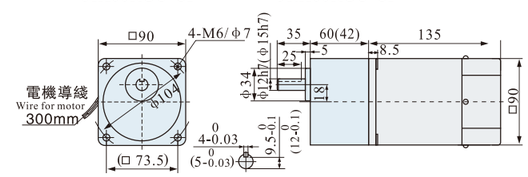



結構：減速器+電動機+剎車器
重量：4kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake
Weight：4kg
Speed Reducing Ratio：1:3-1:500

### 調速型
Speed regulation type

| | 齒輪品名 Name of Gear 5GU□K |
|---|---|
| 5IK60RGU-AF | 5RK60RGU-AF |
| 5IK60RGU-CF | 5RK60RGU-CF |

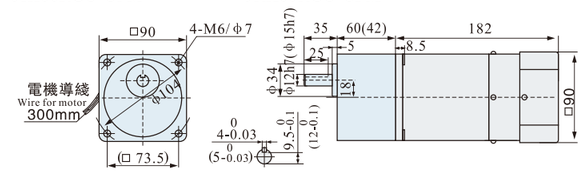



結構：減速器+電動機+調速器
重量：3.9kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Speed governor
Weight：3.9kg
Speed Reducing Ratio：1:3-1:500

### 剎車調速型
Brake Speed regulation type

| | 齒輪品名 Name of Gear 5GU□K |
|---|---|
| 5IK60RGU-AFM | 5RK60RGU-AFM |
| 5IK60RGU-CFM | 5RK60RGU-CFM |

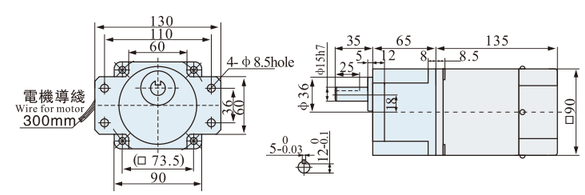



結構：減速器+電動機+剎車器+調速器
重量：4.1kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake +Speed governor
Weight：4.1kg
Speed Reducing Ratio：1:3-1:500

### 90GS定速型
Optical axis type

| | 齒輪品名 Name of Gear 5GS□K |
|---|---|
| 5IK60GU-AF | 5RK60GU-AF |
| 5IK60GU-CF | 5RK60GU-CF |
| 5IK60GU-YF | 5RK60GU-YF |
| 5IK60GU-SF | 5RK60GU-SF |

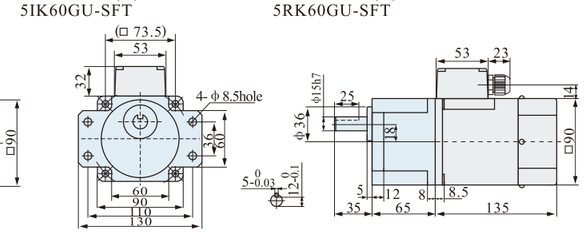



結構：減速器+電動機+調速器
重量：3.9kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Speed governor
Weight：3.9kg
Speed Reducing Ratio：1:3-1:500

### 90GS帶端子箱型
With terminal box type

| | 齒輪品名 Name of Gear 5GS□K |
|---|---|
| 5IK60GU-AFT | 5RK60GU-AFT |
| 5IK60GU-CFT | 5RK60GU-CFT |
| 5IK60GU-U(Y)FT | 5RK60GU-U(Y)FT |
| 5IK60GU-SFT | 5RK60GU-SFT |




結構：減速器+電動機+端子箱
重量：4kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Terminal box
Weight：4kg
Speed Reducing Ratio：1:3-1:500

# 90/120W

## □90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK90GU-CF 5IK90A-CF | 感應 Induction | 90 | 單相 1-phase 220 | 50 | 0.62 | 837 | 8370 | 670 | 6700 | 1350 | 5/450 |
| | | | | 60 | 0.60 | 692 | 6920 | 554 | 5540 | 1550 | 5/450 |
| 5RK90GU-CF 5RK90A-CF | 可逆 Reversible | | | 50 | 0.68 | 837 | 8370 | 670 | 6700 | 1350 | 6/450 |
| | | | | 60 | 0.72 | 692 | 6920 | 554 | 5540 | 1550 | 6/450 |
| 5IK90GU-AF 5IK90A-AF | 感應 Induction | 90 | 單相 1-phase 110 | 50 | 1.25 | 837 | 8370 | 670 | 6700 | 1350 | 20/250 |
| | | | | 60 | 1.2 | 692 | 6920 | 554 | 5540 | 1550 | 18/250 |
| 5RK90GU-AF 5RK90A-AF | 可逆 Reversible | | | 50 | 1.38 | 837 | 8370 | 670 | 6700 | 1350 | 24/250 |
| | | | | 60 | 1.5 | 692 | 6920 | 554 | 5540 | 1550 | 24/250 |
| 5IK90GU-UF 5IK90A-UF | —— | 90 | 三相 3-phase 380 | 50 | 0.32 | 837 | 8370 | 670 | 6700 | 1350 | —— |
| | | | | 60 | 0.3 | 692 | 6920 | 554 | 5540 | 1500 | —— |
| 5RK90GU-SF 5RK90A-SF | —— | 90 | 三相 3-phase 220 | 50 | 0.55 | 837 | 8370 | 670 | 6700 | 1350 | —— |
| | | | | 60 | 0.48 | 692 | 6920 | 554 | 5540 | 1500 | —— |
| 5IK120GU-CF 5IK120A-CF | 感應 Induction | 120 | 單相 1-phase 220 | 50 | 0.85 | 1137 | 11370 | 910 | 9100 | 1350 | 6/450 |
| | | | | 60 | 0.82 | 955 | 9550 | 764 | 7640 | 1500 | 6/450 |
| 5RK120GU-CF 5RK120A-CF | 可逆 Reversible | | | 50 | 0.95 | 1137 | 11370 | 910 | 9100 | 1350 | 8/450 |
| | | | | 60 | 1.0 | 955 | 9550 | 764 | 7640 | 1500 | 8/450 |
| 5IK120GU-AF 5IK120A-AF | 感應 Induction | 120 | 單相 1-phase 110 | 50 | 1.7 | 1137 | 11370 | 910 | 9100 | 1350 | 24/250 |
| | | | | 60 | 1.65 | 955 | 9550 | 764 | 7640 | 1500 | 24/250 |
| 5RK120GU-AF 5RK120A-AF | 可逆 Reversible | | | 50 | 1.9 | 1137 | 11370 | 910 | 9100 | 1350 | 30/250 |
| | | | | 60 | 2.1 | 955 | 9550 | 764 | 7640 | 1500 | 30/250 |
| 5RK120GU-UF 5RK120A-UF | —— | 120 | 三相 3-phase 380 | 50 | 0.34 | 1137 | 11370 | 910 | 9100 | 1350 | —— |
| | | | | 60 | 0.31 | 955 | 9550 | 764 | 7640 | 1500 | —— |
| 5RK120GU-SF 5RK120A-SF | —— | 120 | 三相 3-phase 220 | 50 | 0.59 | 1137 | 11370 | 910 | 9100 | 1350 | —— |
| | | | | 60 | 0.54 | 955 | 9550 | 764 | 7640 | 1500 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 45 | 37.5 | 30 | 25 | 20 | 15 | 12.5 | 10 | 8 | 7.5 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 90W | kg.cm | 15.7 | 26.5 | 31.5 | 39.4 | 52.5 | 65.7 | 71 | 94.6 | 118 | 141 | 170 | 189 | | | | | | 200 | | | | | |
| | | N.m | 1.54 | 2.6 | 3.1 | 3.86 | 5.15 | 6.44 | 6.96 | 9.28 | 11.6 | 13.9 | 16.7 | 18.5 | | | | | | 19.6 | | | | | |
| | 120W | kg.cm | 21.5 | 36 | 42 | 54 | 70 | 87.57 | 98 | 126 | 148 | 189 | | | | | | | | 200 | | | | | |
| | | N.m | 2.11 | 3.52 | 4.13 | 5.28 | 6.88 | 8.59 | 9.6 | 12.4 | 14.5 | 18.5 | | | | | | | | 19.6 | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

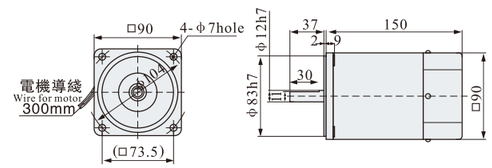
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





### 圓軸型
Circular shaft type

5IK90(120)A-AF 5RK90(120)A-AF
5IK90(120)A-CF 5RK90(120)A-CF
5IK90(120)A-YF 5RK90(120)A-YF

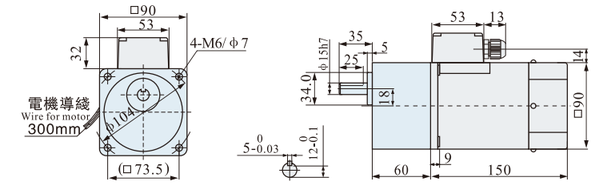



結構：電動機
重量：3.1kg

Structure：Electric motor
Weight：3.1kg

### 90GU帶端子箱型 With terminal box type
齒輪品名 Name of Gear 5GU□K

5IK90(120)GU-AFT 5RK90(120)GU-AFT
5IK90(120)GU-CFT 5RK90(120)GU-CFT
5IK90(120)GU-U(Y)FT 5RK90(120)GU-U(Y)FT
5IK90(120)GU-SFT 5RK90(120)GU-SFT

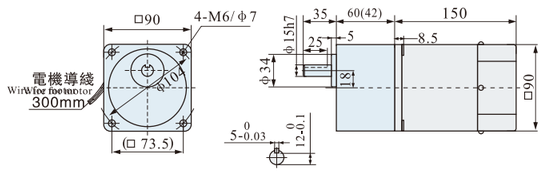



結構：減速器+電動機+端子箱
重量：4.3kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Terminal box
Weight：4.3kg
Speed Reducing Ratio：1:3-1:500

### 定速型 Optical axis type
齒輪品名 Name of Gear 5GU□K

5IK90(120)GU-AF 5RK90(120)GU-AF
5IK90(120)GU-CF 5RK90(120)GU-CF
5IK90(120)GU-U(Y)F 5RK90(120)GU-U(Y)F
5IK90(120)GU-SF 5RK90(120)GU-SF

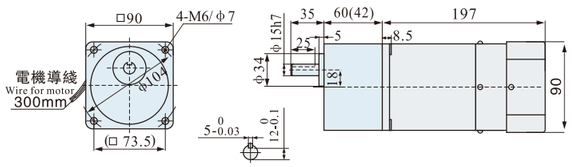



結構：減速器+電動機
重量：3.8kg
減速比：1:3–1:500

Structure：Reducer+Electric motor
Weight：3.8kg
Speed Reducing Ratio：1:3-1:500

### 剎車定速型 Brake Optical axis type
齒輪品名 Name of Gear 5GU□K

5IK90(120)GU-AFM 5RK90(120)GU-AFM
5IK90(120)GU-CFM 5RK90(120)GU-CFM
5IK90(120)GU-U(Y)FM 5RK90(120)GU-U(Y)FM
5IK90(120)GU-SFM 5RK90(120)GU-SFM

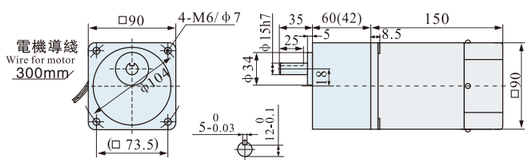



結構：減速器+電動機+剎車器
重量：4kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake
Weight：4kg
Speed Reducing Ratio：1:3-1:500

### 調速型 Speed regulation type
齒輪品名 Name of Gear 5GU□K

5IK90(120)RGU-AF 5RK90(120)RGU-AF
5IK90(120)RGU-CF 5RK90(120)RGU-CF

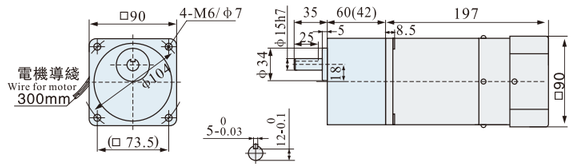



結構：減速器+電動機+調速器
重量：3.9kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Speed governor
Weight：3.9kg
Speed Reducing Ratio：1:3-1:500

### 剎車調速型 Brake Speed regulation type
齒輪品名 Name of Gear 5GU□K

5IK90(120)RGU-AFM 5RK90(120)RGU-AFM
5IK90(120)RGU-CFM 5RK90(120)RGU-CFM




結構：減速器+電動機+剎車器+調速器
重量：4.1kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake +Speed governor
Weight：4.1kg
Speed Reducing Ratio：1:3-1:500

# 90/120W

## □90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK90GU-CF 5IK90A-CF | 感應 Induction | 90 | 單相 1-phase 220 | 50 | 0.62 | 837 | 8370 | 670 | 6700 | 1350 | 5/450 |
| | | | | 60 | 0.60 | 692 | 6920 | 554 | 5540 | 1550 | 5/450 |
| 5RK90GU-CF 5RK90A-CF | 可逆 Reversible | | | 50 | 0.68 | 837 | 8370 | 670 | 6700 | 1350 | 6/450 |
| | | | | 60 | 0.72 | 692 | 6920 | 554 | 5540 | 1550 | 6/450 |
| 5IK90GU-AF 5IK90A-AF | 感應 Induction | 90 | 單相 1-phase 110 | 50 | 1.25 | 837 | 8370 | 670 | 6700 | 1350 | 20/250 |
| | | | | 60 | 1.2 | 692 | 6920 | 554 | 5540 | 1550 | 18/250 |
| 5RK90GU-AF 5RK90A-AF | 可逆 Reversible | | | 50 | 1.38 | 837 | 8370 | 670 | 6700 | 1350 | 24/250 |
| | | | | 60 | 1.5 | 692 | 6920 | 554 | 5540 | 1550 | 24/250 |
| 5IK90GU-UF 5IK90A-UF | — | 90 | 三相 3-phase 380 | 50 | 0.32 | 837 | 8370 | 670 | 6700 | 1350 | — |
| | | | | 60 | 0.3 | 692 | 6920 | 554 | 5540 | 1500 | — |
| 5RK90GU-SF 5RK90A-SF | — | 90 | 三相 3-phase 220 | 50 | 0.55 | 837 | 8370 | 670 | 6700 | 1350 | — |
| | | | | 60 | 0.48 | 692 | 6920 | 554 | 5540 | 1500 | — |
| 5IK120GU-CF 5IK120A-CF | 感應 Induction | 120 | 單相 1-phase 220 | 50 | 0.85 | 1137 | 11370 | 910 | 9100 | 1350 | 6/450 |
| | | | | 60 | 0.82 | 955 | 9550 | 764 | 7640 | 1500 | 6/450 |
| 5RK120GU-CF 5RK120A-CF | 可逆 Reversible | | | 50 | 0.95 | 1137 | 11370 | 910 | 9100 | 1350 | 8/450 |
| | | | | 60 | 1.0 | 955 | 9550 | 764 | 7640 | 1500 | 8/450 |
| 5IK120GU-AF 5IK120A-AF | 感應 Induction | 120 | 單相 1-phase 110 | 50 | 1.7 | 1137 | 11370 | 910 | 9100 | 1350 | 24/250 |
| | | | | 60 | 1.65 | 955 | 9550 | 764 | 7640 | 1500 | 24/250 |
| 5RK120GU-AF 5RK120A-AF | 可逆 Reversible | | | 50 | 1.9 | 1137 | 11370 | 910 | 9100 | 1350 | 30/250 |
| | | | | 60 | 2.1 | 955 | 9550 | 764 | 7640 | 1500 | 30/250 |
| 5RK120GU-UF 5RK120A-UF | — | 120 | 三相 3-phase 380 | 50 | 0.34 | 1137 | 11370 | 910 | 9100 | 1350 | — |
| | | | | 60 | 0.31 | 955 | 9550 | 764 | 7640 | 1500 | — |
| 5RK120GU-SF 5RK120A-SF | — | 120 | 三相 3-phase 220 | 50 | 0.59 | 1137 | 11370 | 910 | 9100 | 1350 | — |
| | | | | 60 | 0.54 | 955 | 9550 | 764 | 7640 | 1500 | — |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 45 | 37.5 | 30 | 25 | 20 | 15 | 12.5 | 10 | 8 | 7.5 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 90W | kg.cm | 15.7 | 26.5 | 31.5 | 39.4 | 52.5 | 65.7 | 71 | 94.6 | 118 | 141 | 170 | 189 | 200 | | | | | | | | | | |
| | | N.m | 1.54 | 2.6 | 3.1 | 3.86 | 5.15 | 6.44 | 6.96 | 9.28 | 11.6 | 13.9 | 16.7 | 18.5 | 19.6 | | | | | | | | | | |
| | 120W | kg.cm | 21.5 | 36 | 42 | 54 | 70 | 87.57 | 98 | 126 | 148 | 189 | 200 | | | | | | | | | | | | |
| | | N.m | 2.11 | 3.52 | 4.13 | 5.28 | 6.88 | 8.59 | 9.6 | 12.4 | 14.5 | 18.5 | 19.6 | | | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

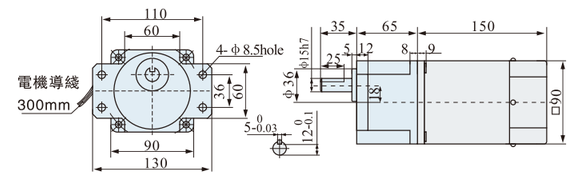




### 定速型 Optical axis type — 齒輪品名 Name of Gear 5GS□K

5IK90(120)GU-AF
5IK90(120)GU-CF
5IK90(120)GU-U(Y)F
5IK90(120)GU-SF

5RK90(120)GU-AF
5RK90(120)GU-CF
5RK90(120)GU-U(Y)F
5RK90(120)GU-SF



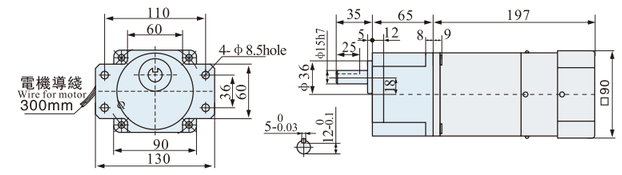

結構：減速器+電動機
重量：4.4kg
減速比：1:3–1:500

Structure：Reducer+Electric motor
Weight：4.4kg
Speed Reducing Ratio：1:3-1:500

### 剎車定速型 Brake Optical axis type — 齒輪品名 Name of Gear 5GS□K

5IK90(120)GU-AFM
5IK90(120)GU-CFM
5IK90(120)GU-U(Y)FM
5IK90(120)GU-SFM

5RK90(120)GU-AFM
5RK90(120)GU-CFM
5RK90(120)GU-U(Y)FM
5RK90(120)GU-SFM



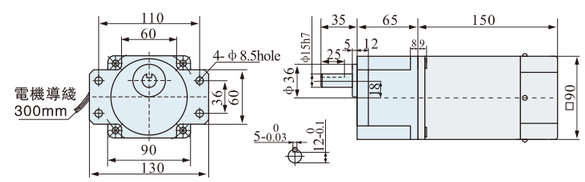

結構：減速器+電動機+剎車器
重量：4.9kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake
Weight：4.9kg
Speed Reducing Ratio：1:3-1:500

### 調速型 Speed regulation type — 齒輪品名 Name of Gear 5GS□K

5IK90(120)RGU-AF
5IK90(120)RGU-CF

5RK90(120)RGU-AF
5RK90(120)RGU-CF



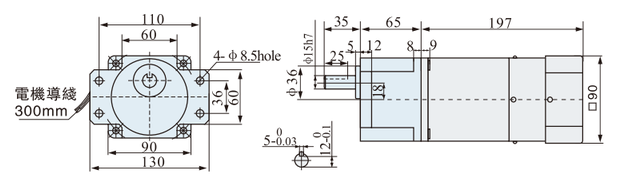

結構：減速器+電動機+調速器
重量：4.5kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Speed governor
Weight：4.5kg
Speed Reducing Ratio：1:3-1:500

### 剎車調速型 Brake Speed regulation type — 齒輪品名 Name of Gear 5GS□K

5IK90(120)RGU-AFM
5IK90(120)RGU-CFM

5RK90(120)RGU-AFM
5RK90(120)RGU-CFM



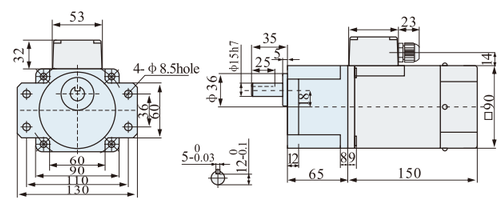

結構：減速器+電動機+剎車器+調速器
重量：4.9kg
減速比：1:3–1:500

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：4.9kg
Speed Reducing Ratio：1:3-1:500

### 帶端子箱型 With terminal box type — 齒輪品名 Name of Gear 5GS□K

5IK90(120)GU-AFT
5IK90(120)GU-CFT
5IK90(120)GU-U(Y)FT
5IK90(120)GU-SFT

5RK90(120)GU-AFT
5RK90(120)GU-CFT
5RK90(120)GU-U(Y)FT
5RK90(120)GU-SFT




結構：減速器+電動機+端子箱
Structure：Reducer+Electric motor+Terminal box

重量：4.5kg 減速比：1:3–1:500
Weight：4.5kg Speed Reducing Ratio：1:3-1:500

# 120/140W

## □100mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK120GU-CF 6IK120A-CF | 感應 Induction | 120 | 單相 1-phase 220 | 50 | 1.0 | 1100 | 11000 | 880 | 8800 | 1350 | 6/450 |
| | | | | 60 | 1.0 | 925 | 9250 | 740 | 7400 | 1550 | 6/450 |
| 6RK120GU-CF 6RK120A-CF | 可逆 Reversible | | | 50 | 1.2 | 1575 | 15750 | 1260 | 12600 | 1350 | 8/450 |
| | | | | 60 | 1.4 | 1225 | 12250 | 980 | 9800 | 1550 | 8/450 |
| 6IK120GU-AF 6IK120A-AF | 感應 Induction | 120 | 單相 1-phase 110 | 50 | 1.7 | 1100 | 11000 | 880 | 8800 | 1350 | 30/250 |
| | | | | 60 | 1.6 | 925 | 9250 | 740 | 7400 | 1550 | 28/250 |
| 6RK120GU-AF 6RK120A-AF | 可逆 Reversible | | | 50 | 1.8 | 1575 | 15750 | 1260 | 12600 | 1350 | 32/250 |
| | | | | 60 | 2.0 | 1225 | 12250 | 980 | 9800 | 1550 | 32/250 |
| 6IK120GU-UF 6IK120A-UF | —— | 120 | 三相 3-phase 380 | 50 | 0.46 | 1100 | 11000 | 880 | 8800 | 1350 | —— |
| | | | | 60 | 0.42 | 925 | 9250 | 740 | 7400 | 1550 | —— |
| 6RK120GU-SF 6RK120A-SF | —— | 120 | 三相 3-phase 220 | 50 | 0.8 | 1100 | 11000 | 880 | 8800 | 1350 | —— |
| | | | | 60 | 0.73 | 925 | 9250 | 740 | 7400 | 1550 | —— |
| 6IK140GU-CF 6IK140A-CF | 感應 Induction | 140 | 單相 1-phase 220 | 50 | 1.23 | 1285 | 12850 | 1028 | 10280 | 1350 | 8/450 |
| | | | | 60 | 1.12 | 1078 | 10780 | 863 | 8630 | 1550 | 8/450 |
| 6RK140GU-CF 6RK140A-CF | 可逆 Reversible | | | 50 | 1.3 | 1285 | 12850 | 1028 | 10280 | 1350 | 10/450 |
| | | | | 60 | 1.43 | 1078 | 10780 | 863 | 8630 | 1550 | 10/450 |
| 6IK140GU-AF 6IK140A-AF | 感應 Induction | 140 | 單相 1-phase 110 | 50 | 2.05 | 1285 | 12850 | 1028 | 10280 | 1350 | 32/250 |
| | | | | 60 | 1.9 | 1078 | 10780 | 863 | 8630 | 1550 | 30/250 |
| 6RK140GU-AF 6RK140A-AF | 可逆 Reversible | | | 50 | 2.2 | 1285 | 12850 | 1028 | 10280 | 1350 | 40/250 |
| | | | | 60 | 2.4 | 1078 | 10780 | 863 | 8630 | 1550 | 32/250 |
| 6RK140GU-UF 6RK140A-UF | —— | 140 | 三相 3-phase 380 | 50 | 0.55 | 1285 | 12850 | 1028 | 10280 | 1350 | —— |
| | | | | 60 | 0.46 | 1078 | 10780 | 863 | 8630 | 1550 | —— |
| 6RK140GU-SF 6RK140A-SF | —— | 140 | 三相 3-phase 220 | 50 | 0.88 | 1285 | 12850 | 1028 | 10280 | 1350 | —— |
| | | | | 60 | 0.80 | 1078 | 10780 | 863 | 8630 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 41 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 120W | kg.cm | 21.5 | 36 | 54 | 69.8 | 85 | 103 | 125 | 139 | 172 | 209 | 226 | 251 | 315 | | | | | | | | | | |
| | | N.m | 2.11 | 3.52 | 5.28 | 6.85 | 8.45 | 10.2 | 12.3 | 13.6 | 16.9 | 20.5 | 22.14 | 24.6 | 31 | | | | | | | | | | |
| | 140W | kg.cm | 25.1 | 42 | 63 | 73.5 | 99.2 | 120 | 132 | 147 | 200.7 | 221 | 238 | 265 | 330 | | | | | | | | | | |
| | | N.m | 2.46 | 4.11 | 6.16 | 8.02 | 9.86 | 11.8 | 13 | 14.4 | 19.73 | 21.7 | 23.4 | 26 | 32.5 | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

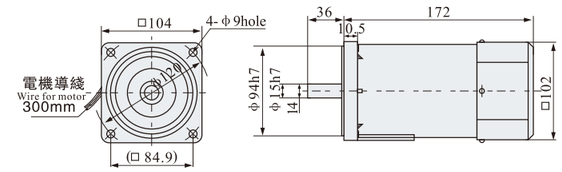
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





## 圓軸型
Circular shaft type

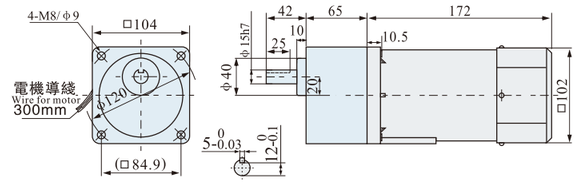
6IK120(140)A-AF　6RK120(140)A-AF
6IK120(140)A-CF　6RK120(140)A-CF
6IK120(140)A-YF　6RK120(140)A-YF




結構：電動機　Structure：Electric motor
重量：4.8kg　Weight：4.8kg

## 定速型 齒輪品名 6GU□K
Optical axis type　Name of Gear

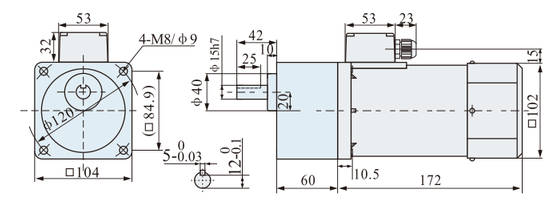
6IK120(140)GU-AF　6RK120(140)GU-AF
6IK120(140)GU-CF　6RK120(140)GU-CF
6IK120(140)GU-YF　6RK120(140)GU-YF




結構：減速器+電動機　Structure：Reducer+Electric motor
重量：6.4kg　Weight：6.4kg
減速比：1:3-1:250　Speed Reducing Ratio：1:3-1:250

## 帶端子箱型 齒輪品名 6GU□K
With terminal box type　Name of Gear

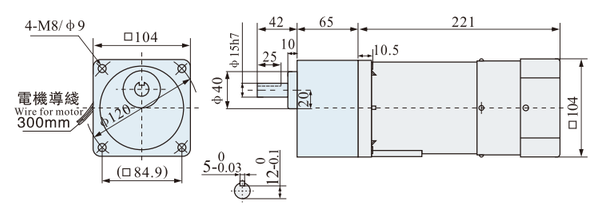
6IK120(140)GU-AFT　6RK120(140)GU-AFT
6IK120(140)GU-CFT　6RK120(140)GU-CFT
6IK120(140)GU-U(Y)FT　6RK120(140)GU-U(Y)FT
6IK120(140)GU-SFT　6RK120(140)GU-SFT




結構：減速器+電動機+端子箱
重量：6.5kg
減速比：1:3-1:250
Structure：Reducer+Electric motor+Terminal box
Weight：6.5kg
Speed Reducing Ratio：1:3-1:250

## 剎車定速型 齒輪品名 6GU□K
Brake Optical axis type　Name of Gear

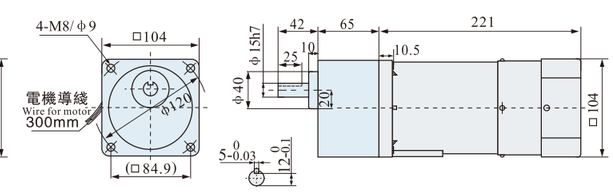
6IK120(140)GU-AFM　6RK120(140)GU-AFM
6IK120(140)GU-CFM　6RK120(140)GU-CFM
6IK120(140)GU-YFM　6RK120(140)GU-YFM




結構：減速器+電動機+剎車器
重量：6.9kg
減速比：1:3-1:250
Structure：Reducer+Electric motor+Brake
Weight：6.9kg
Speed Reducing Ratio：1:3-1:250

## 剎車調速型 齒輪品名 6GU□K
Brake Speed regulation type　Name of Gear

6IK120(140)RGU-AFM　6RK120(140)RGU-AFM
6IK120(140)RGU-CFM　6RK120(140)RGU-CFM




結構：減速器+電動機+剎車器+調速器
重量：6.9kg
減速比：1:3-1:250
Structure：Reducer+Electric motor+Brake+Speed governor
Weight：6.9kg
Speed Reducing Ratio：1:3-1:250

# 160/180W

## □100mm

## 電機特性
**List of motor characteristics**

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK160GU-CF 6IK160A-CF | 感應 Induction | 160 | 單相 1-phase 220 | 50 | 1.25 | 1575 | 15750 | 1260 | 12600 | 1350 | 8/450 |
| | | | | 60 | 1.24 | 1225 | 12250 | 980 | 9800 | 1550 | 8/450 |
| 6RK160GU-CF 6RK160A-CF | 可逆 Reversible | | | 50 | 1.4 | 1575 | 15750 | 1260 | 12600 | 1350 | 10/450 |
| | | | | 60 | 1.46 | 1225 | 12250 | 980 | 9800 | 1550 | 10/450 |
| 6IK160GU-AF 6IK160A-AF | 感應 Induction | 160 | 單相 1-phase 110 | 50 | 2.4 | 1575 | 15750 | 1260 | 12600 | 1350 | 32/250 |
| | | | | 60 | 2.2 | 1225 | 12250 | 980 | 9800 | 1550 | 30/250 |
| 6RK160GU-AF 6RK160A-AF | 可逆 Reversible | | | 50 | 2.6 | 1575 | 15750 | 1260 | 12600 | 1350 | 40/250 |
| | | | | 60 | 2.8 | 1225 | 12250 | 980 | 9800 | 1550 | 36/250 |
| 6IK160GU-UF 6IK160A-UF | —— | 160 | 三相 3-phase 380 | 50 | 0.55 | 1468 | 14680 | 1175 | 11750 | 1350 | —— |
| | | | | 60 | 0.50 | 1232 | 12320 | 986 | 9860 | 1550 | —— |
| 6RK160GU-SF 6RK160A-SF | —— | 160 | 三相 3-phase 220 | 50 | 0.95 | 1468 | 14680 | 1175 | 11750 | 1350 | —— |
| | | | | 60 | 0.86 | 1232 | 12320 | 986 | 9860 | 1550 | —— |
| 6IK180GU-CF 6IK180A-CF | 感應 Induction | 180 | 單相 1-phase 220 | 50 | 1.50 | 1837 | 18370 | 1470 | 14700 | 1350 | 10/450 |
| | | | | 60 | 1.46 | 1540 | 15400 | 1232 | 12320 | 1550 | 10/450 |
| 6RK180GU-CF 6RK180A-CF | 可逆 Reversible | | | 50 | 1.50 | 1837 | 18370 | 1470 | 14700 | 1350 | 12/450 |
| | | | | 60 | 1.46 | 1540 | 15400 | 1232 | 12320 | 1550 | 12/450 |
| 6IK180GU-AF 6IK180A-AF | 感應 Induction | 180 | 單相 1-phase 110 | 50 | 2.8 | 1837 | 18370 | 1470 | 14700 | 1350 | 40/250 |
| | | | | 60 | 2.6 | 1540 | 15400 | 1232 | 12320 | 1550 | 40/250 |
| 6RK180GU-AF 6RK180A-AF | 可逆 Reversible | | | 50 | 2.8 | 1837 | 18370 | 1470 | 14700 | 1350 | 48/250 |
| | | | | 60 | 2.6 | 1540 | 15400 | 1232 | 12320 | 1550 | 48/250 |
| 6RK180GU-UF 6RK180A-UF | —— | 180 | 三相 3-phase 380 | 50 | 0.80 | 1825 | 18250 | 1460 | 14600 | 1350 | —— |
| | | | | 60 | 0.75 | 1475 | 14750 | 1180 | 11800 | 1550 | —— |
| 6RK180GU-SF 6RK180A-SF | —— | 180 | 三相 3-phase 220 | 50 | 1.05 | 1825 | 18250 | 1460 | 14600 | 1350 | —— |
| | | | | 60 | 1.0 | 1475 | 14750 | 1180 | 11800 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 41 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 160W | kg.cm | 28.7 | 48 | 72 | 87 | 113.3 | 137.3 | 157 | 174 | 229 | 261 | 285 | 317 | 396 | 440 | | | | | | | | | |
| | | N.m | 2.81 | 4.69 | 7.04 | 8.53 | 11.27 | 13.53 | 15.4 | 17 | 22.6 | 25.6 | 28 | 31.1 | 38.8 | 43 | | | | | | | | | |
| | 180W | kg.cm | 32.3 | 54 | 81 | 94.7 | 127.5 | 154.5 | 170 | 189 | 237 | 284 | 310 | 344 | 430 | 440 | | | | | | | | | |
| | | N.m | 3.17 | 5.28 | 7.92 | 9.28 | 12.68 | 15.23 | 16.7 | 18.7 | 23.2 | 27.8 | 30.1 | 33.4 | 42.2 | 43 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

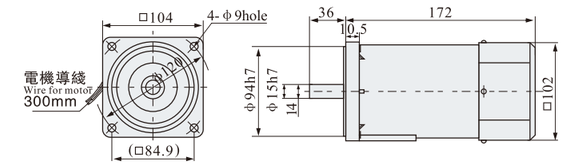
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





## 圓軸型
Circular shaft type

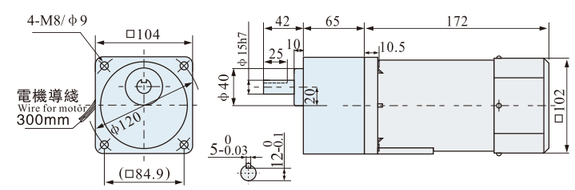
6IK160(180)A-AF　6RK160(180)A-AF
6IK160(180)A-CF　6RK160(180)A-CF
6IK160(180)A-YF　6RK160(180)A-YF




結構：電動機　Structure：Electric motor
重量：5kg　Weight：5kg

## 定速型 Optical axis type　齒輪品名 Name of Gear 6GU□K

6IK160(180)GU-AF　6RK160(180)GU-AF
6IK160(180)GU-CF　6RK160(180)GU-CF
6IK160(180)GU-YF　6RK160(180)GU-YF

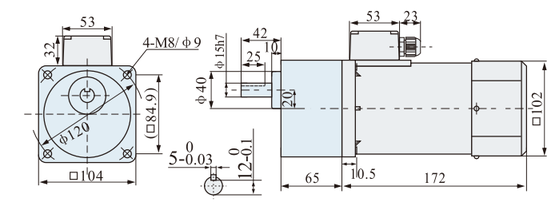



結構：減速器+電動機
重量：6.6kg
減速比：1:3–1:250

Structure：Reducer+Electric motor
Weight：6.6kg
Speed Reducing Ratio：1:3-1:250

## 帶端子箱型 With terminal box type　齒輪品名 Name of Gear 6GU□K

6IK160(180)GU-AFT　6RK160(180)GU-AFT
6IK160(180)GU-CFT　6RK160(180)GU-CFT
6IK160(180)GU-U(Y)FT　6RK160(180)GU-U(Y)FT
6IK160(180)GU-SFT　6RK160(180)GU-SFT

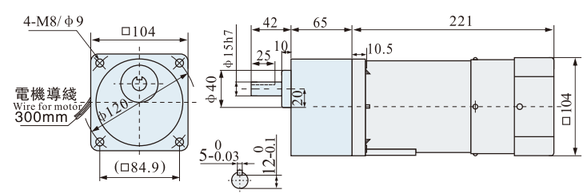



結構：減速器+電動機+端子箱
重量：6.7kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Terminal box
Weight：6.7kg
Speed Reducing Ratio：1:3-1:250

## 剎車定速型 Brake Optical axis type　齒輪品名 Name of Gear 6GU□K

6IK160(180)GU-AFM　6RK160(180)GU-AFM
6IK160(180)GU-CFM　6RK160(180)GU-CFM
6IK160(180)GU-YFM　6RK160(180)GU-YFM

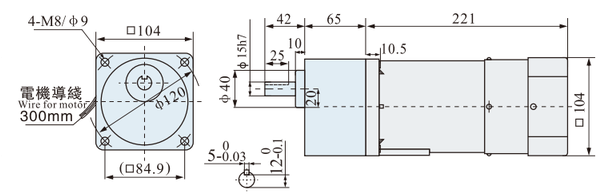



結構：減速器+電動機+剎車器
重量：7kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Brake
Weight：7kg
Speed Reducing Ratio：1:3-1:250

## 剎車調速型 Brake Speed regulation type　齒輪品名 Name of Gear 6GU□K

6IK160(180)RGU-AFM　6RK160(180)RGU-AFM
6IK160(180)RGU-CFM　6RK160(180)RGU-CFM




結構：減速器+電動機+剎車器+調速器
重量：7.1kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：7.1kg
Speed Reducing Ratio：1:3-1:250

# 200/250W

## □100mm

## 電機特性
## List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK200GU-CF 6IK200A-CF | 感應 Induction | 200 | 單相 1-phase 220 | 50 | 1.55 | 1485 | 14850 | 1414 | 14140 | 1350 | 8/450 |
| | | | | 60 | 1.5 | 1294 | 12940 | 1232 | 12320 | 1550 | 8/450 |
| 6RK200GU-CF 6RK200A-CF | 可逆 Reversible | | | 50 | 1.55 | 1485 | 14850 | 1414 | 14140 | 1350 | 10/450 |
| | | | | 60 | 1.5 | 1294 | 12940 | 1232 | 12320 | 1550 | 10/450 |
| 6IK200GU-AF 6IK200A-AF | 感應 Induction | 200 | 單相 1-phase 110 | 50 | 3.0 | 1485 | 14850 | 1414 | 14140 | 1350 | 32/250 |
| | | | | 60 | 2.8 | 1294 | 12940 | 1232 | 12320 | 1550 | 30/250 |
| 6RK200GU-AF 6RK200A-AF | 可逆 Reversible | | | 50 | 3.0 | 1485 | 14850 | 1414 | 14140 | 1350 | 40/250 |
| | | | | 60 | 2.8 | 1294 | 12940 | 1232 | 12320 | 1550 | 36/250 |
| 6IK200GU-UF 6IK200A-UF | —— | 200 | 三相 3-phase 380 | 50 | 0.9 | 1600 | 16000 | 1450 | 14500 | 1350 | —— |
| | | | | 60 | 0.87 | 1386 | 13860 | 1260 | 12600 | 1550 | —— |
| 6RK200GU-SF 6RK200A-SF | —— | 200 | 三相 3-phase 220 | 50 | 1.15 | 1600 | 16000 | 1450 | 14500 | 1350 | —— |
| | | | | 60 | 1.1 | 1386 | 13860 | 1260 | 12600 | 1550 | —— |
| 6IK250GU-CF 6IK250A-CF | 感應 Induction | 250 | 單相 1-phase 220 | 50 | 1.6 | 2020 | 20200 | 1837 | 18370 | 1350 | 10/450 |
| | | | | 60 | 1.55 | 1700 | 17000 | 1540 | 15400 | 1550 | 10/450 |
| 6RK250GU-CF 6RK250A-CF | 可逆 Reversible | | | 50 | 1.6 | 2020 | 20200 | 1837 | 18370 | 1350 | 12/450 |
| | | | | 60 | 1.55 | 1700 | 17000 | 1540 | 15400 | 1550 | 12/450 |
| 6IK250GU-AF 6IK250A-AF | 感應 Induction | 250 | 單相 1-phase 110 | 50 | 3.2 | 2020 | 20200 | 1837 | 18370 | 1350 | 40/250 |
| | | | | 60 | 3.0 | 1700 | 17000 | 1540 | 15400 | 1550 | 40/250 |
| 6RK250GU-AF 6RK250A-AF | 可逆 Reversible | | | 50 | 3.3 | 2020 | 20200 | 1837 | 18370 | 1350 | 48/250 |
| | | | | 60 | 3.2 | 1700 | 17000 | 1540 | 15400 | 1550 | 48/250 |
| 6RK250GU-UF 6RK250A-UF | —— | 250 | 三相 3-phase 380 | 50 | 1.3 | 2022 | 20220 | 1840 | 18400 | 1350 | —— |
| | | | | 60 | 1.2 | 1760 | 17600 | 1600 | 16000 | 1550 | —— |
| 6RK250GU-SF 6RK250A-SF | —— | 250 | 三相 3-phase 220 | 50 | 1.21 | 2022 | 20220 | 1840 | 18400 | 1350 | —— |
| | | | | 60 | 1.15 | 1760 | 17600 | 1600 | 16000 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
## Allowable load for the gear motor

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 85 | 75 | 60 | 50 | 40 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 |
| 最大允許負載 Max allowable load | 200W | kg.cm | 39.4 | 66 | 89.8 | 119 | 149 | 180 | 214 | 239 | 299 | 358 | 392 | 435 | 440 | | | | | | | | |
| | | N.m | 3.86 | 6.44 | 8.8 | 11.7 | 14.5 | 17.6 | 21.0 | 23.4 | 29.3 | 35.1 | 38.4 | 42.6 | 43 | | | | | | | | |
| | 250W | kg.cm | 49.3 | 82.1 | 112 | 149 | 486 | 224 | 268 | 298 | 375 | 438 | 440 | | | | | | | | | | |
| | | N.m | 4.83 | 8.1 | 11 | 14.6 | 18.3 | 22 | 26.4 | 29.3 | 36.6 | 43 | 43 | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

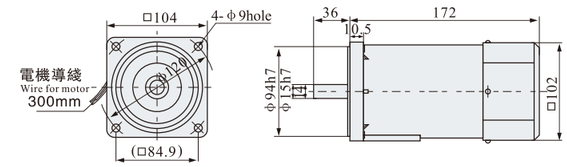
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





## 圓軸型
Circular shaft type

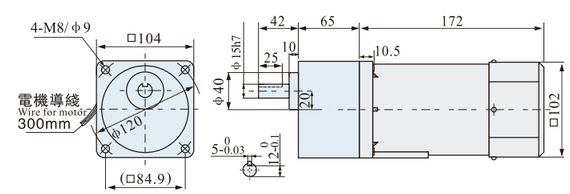
6IK200(250)A-AF　6RK200(250)A-AF
6IK200(250)A-CF　6RK200(250)A-CF
6IK200(250)A-YF　6RK200(250)A-YF




結構：電動機　Structure：Electric motor
重量：5kg　Weight：5kg

## 定速型 Optical axis type　齒輪品名 Name of Gear 6GU□K

6IK200(250)GU-AF　6RK200(250)GU-AF
6IK200(250)GU-CF　6RK200(250)GU-CF
6IK200(250)GU-YF　6RK200(250)GU-YF

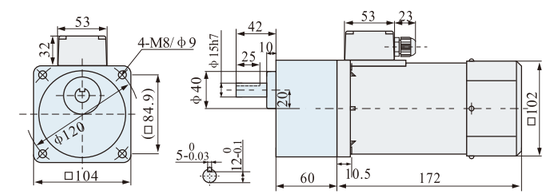



結構：減速器+電動機
重量：6.6kg
減速比：1:3–1:250

Structure：Reducer+Electric motor
Weight：6.6kg
Speed Reducing Ratio：1:3-1:250

## 帶端子箱型 With terminal box type　齒輪品名 Name of Gear 6GU□K

6IK200(250)GU-AFT　6RK200(250)GU-AFT
6IK200(250)GU-CFT　6RK200(250)GU-CFT
6IK200(250)GU-U(Y)FT　6RK200(250)GU-U(Y)FT
6IK200(250)GU-SFT　6RK200(250)GU-SFT

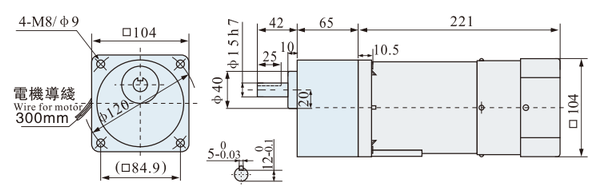



結構：減速器+電動機+端子箱
重量：6.7kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Terminal box
Weight：6.7kg
Speed Reducing Ratio：1:3-1:250

## 剎車定速型 Brake Optical axis type　齒輪品名 Name of Gear 6GU□K

6IK200(250)GU-AFM　6RK200(250)GU-AFM
6IK200(250)GU-CFM　6RK200(250)GU-CFM
6IK200(250)GU-YFM　6RK200(250)GU-YFM

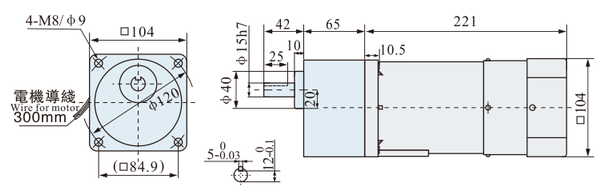



結構：減速器+電動機+剎車器
重量：7kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Brake
Weight：7kg
Speed Reducing Ratio：1:3-1:250

## 剎車調速型 Brake Speed regulation type　齒輪品名 Name of Gear 6GU□K

6IK200(250)RGU-AFM　6RK200(250)RGU-AFM
6IK200(250)RGU-CFM　6RK200(250)RGU-CFM




結構：減速器+電動機+剎車器+調速器
重量：7.1kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：7.1kg
Speed Reducing Ratio：1:3-1:250

# 370W

## □100mm

## 電機特性
**List of motor characteristics**

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK370GU-CF 6IK370A-CF | 感應 Induction | 370 | 單相 1-phase 220 | 50 | 2.3 | 2944 | 29440 | 2560 | 25660 | 1350 | 15/450 |
| | | | | 60 | 2.1 | 2622 | 26220 | 2280 | 22880 | 1550 | 15/450 |
| 6RK370GU-CF 6RK370A-CF | 可逆 Reversible | | | 50 | 2.3 | 2944 | 29440 | 2560 | 25660 | 1350 | 15/450 |
| | | | | 60 | 2.1 | 2622 | 26220 | 2280 | 22880 | 1550 | 15/450 |
| 6IK370GU-AF 6IK370A-AF | 感應 Induction | 370 | 單相 1-phase 110 | 50 | 3.0 | 2944 | 29440 | 2560 | 25660 | 1350 | 32/250 |
| | | | | 60 | 2.8 | 2622 | 26220 | 2280 | 22880 | 1550 | 30/250 |
| 6RK370GU-AF 6RK370A-AF | 可逆 Reversible | | | 50 | 3.0 | 2944 | 29440 | 2560 | 25660 | 1350 | 40/250 |
| | | | | 60 | 2.8 | 2622 | 26220 | 2280 | 22880 | 1550 | 36/250 |
| 6IK370GU-UF 6IK370A-UF | —— | 370 | 三相 3-phase 380 | 50 | 1.4 | 3018 | 30180 | 2624 | 26240 | 1350 | —— |
| | | | | 60 | 1.2 | 2680 | 26800 | 2330 | 23300 | 1550 | —— |
| 6RK370GU-SF 6RK370A-SF | —— | 370 | 三相 3-phase 220 | 50 | 2.5 | 3018 | 30180 | 2624 | 26240 | 1350 | —— |
| | | | | 60 | 2.0 | 2680 | 26800 | 2330 | 23300 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 85 | 75 | 60 | 50 | 40 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 |
| 最大允許負載 Max allowable load | 370W | kg.cm | 62.2 | 106 | 142 | 190 | 238 | 285 | 342 | 381 | 440 | | | | | | | | | | | | |
| | | N.m | 6.22 | 10.4 | 14.0 | 18.6 | 23.3 | 28 | 33.6 | 37.3 | 43 | | | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

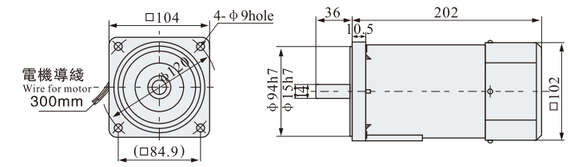
- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





## 圓軸型
Circular shaft type

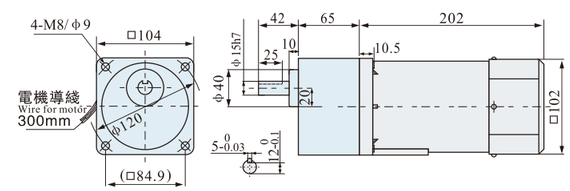
6IK370A-AF　6RK370A-AF
6IK370A-CF　6RK370A-CF
6IK370A-YF　6RK370A-YF




結構：電動機　Structure：Electric motor
重量：5kg　Weight：5kg

## 定速型 Optical axis type　齒輪品名 Name of Gear 6GU□K

6IK370CU-AF　6RK370CU-AF
6IK370GU-CF　6RK370GU-CF
6IK370GU-YF　6RK370GU-YF

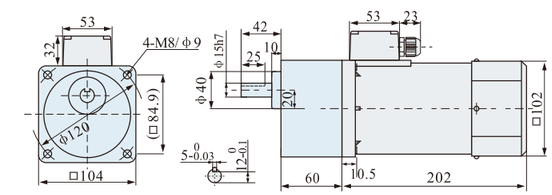



結構：減速器+電動機
重量：6.6kg
減速比：1:3–1:250

Structure：Reducer+Electric motor
Weight：6.6kg
Speed Reducing Ratio：1:3-1:250

## 帶端子箱型 With terminal box type　齒輪品名 Name of Gear 6GU□K

6IK370CU-AFT　6RK370CU-AFT
6IK370GU-CFT　6RK370GU-CFT
6IK370GU-U(Y)YF　6RK370GU-U(Y)YF
6IK370GU-SFT　6RK370GU-SFT

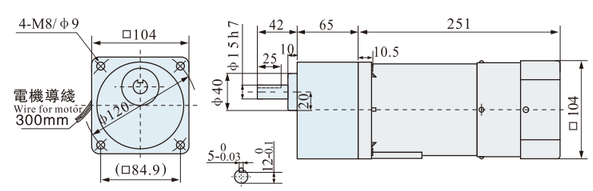



結構：減速器+電動機+端子箱
重量：6.7kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Terminal box
Weight：6.7kg
Speed Reducing Ratio：1:3-1:250

## 剎車定速型 Brake Optical axis type　齒輪品名 Name of Gear 6GU□K

6IK370CU-AFM　6RK370CU-AFM
6IK370GU-CFM　6RK370GU-CFM
6IK370GU-YFM　6RK370GU-YFM

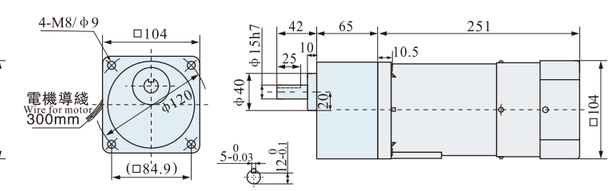



結構：減速器+電動機+剎車器
重量：7kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Brake
Weight：7kg
Speed Reducing Ratio：1:3-1:250

## 剎車調速型 Brake Speed regulation type　齒輪品名 Name of Gear 6GU□K

6IK370RCU-AFM　6RK370RCU-AFM
6IK370RGU-CFM　6RK370RGU-CFM




結構：減速器+電動機+剎車器+調速器
重量：7.1kg
減速比：1:3–1:250

Structure：Reducer+Electric motor+Brake+Speed governor
Weight：7.1kg
Speed Reducing Ratio：1:3-1:250

# 交流馬達、齒輪型號之選定 Micro and special electromotor

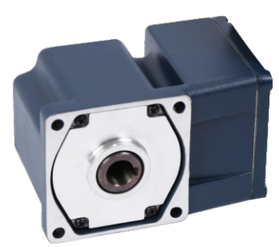
## 交流馬達型號之選定
The selection for AC motor and gear

| 4 | R | K | 25 | GN | A | □ |
|---|---|---|---|---|---|---|
| 外形尺寸 Overall Dimensions | 機種 Kinds | 馬達系列 Motor Series | 出力 Output Force | 馬達軸形狀 Motor Axis Shape | 電壓極數 Voltage Poles | 其它附件 Other Accessories |
| 4:80mm<br>5:90mm<br>6:100mm | I:感應式 I: Inductive<br>R:可逆式 R: Reversible<br>T:轉矩馬達 T: Torque Motor | K系列 K Series | 25=25W<br>30=30W<br>40=40W<br>60=60W<br>90=90W<br>120=120W<br>140=140W<br>160=160W<br>180=180W<br>200=200W<br>250=250W | GN螺旋齒軸（標準型） GN Spiral Toothing Axis<br>GU螺旋齒軸（加强型） GU Spiral Toothing Axis | A=1φ110V4P<br>B=1φ110V2P<br>C=1φ220V4P<br>D=1φ220V2P<br>S=3φ220V4P<br>U=3φ380V4P<br>W=3φ440V4P<br>Y=3φ220/380V4P<br>Z=3φ220/440V4P<br>H=3φ380V2P | F:风扇 F: Fan<br>M:电磁刹车 M:Electromagnetic Brake<br>Z:机械阻尼 Z: mechanical damping<br>T:接线盒 T: Terminal Box<br>P:温度开关 P: Temperature Switch |

馬達軸形狀前加R爲調速馬達
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

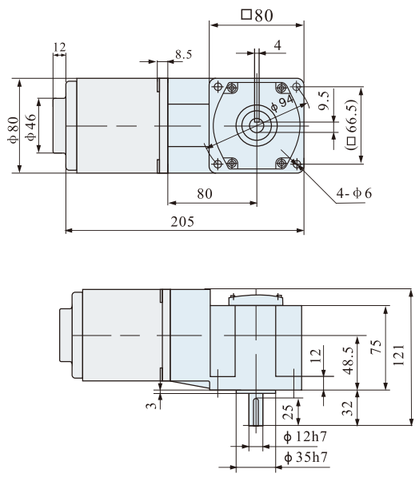
| 4 | GU | 100 | RC | K |
|---|---|---|---|---|
| 外形尺寸 Overall Dimensions | 齒輪種類 Kinds of Gears | 減速比 Speed Reducing Ratio | 出力軸種類 Type of output shaft | 齒輪軸承種類 Kinds of Gear Bearings |
| 4:80mm<br>5:90mm<br>6:100mm | GU 加强形齒輪箱 GU Reinforced Gear Box<br>GN 一般形齒輪箱 GN Common Gear Box | | RC:中空軸 RC:Hollow shaft<br>RT:中實軸 RT:In the real axis | K=滚珠培林軸承 K= Ball Bearing |



## 80型 CAD 尺寸
## Model 80 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：3.5kg

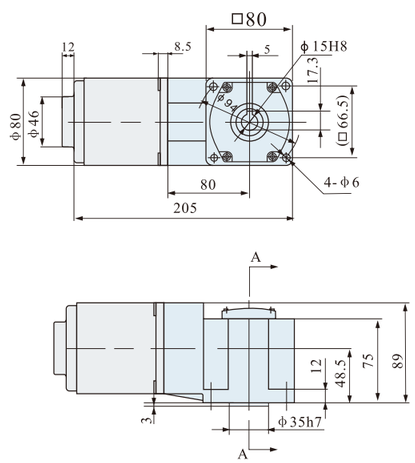
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 3.5kg




## 80型 CAD 尺寸
## Model 80 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：3.4kg

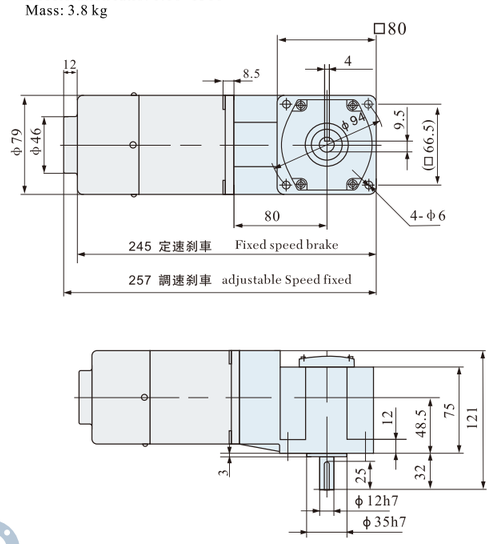
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 3.4kg




## 80型 CAD 尺寸
## Model 80 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：3.8kg

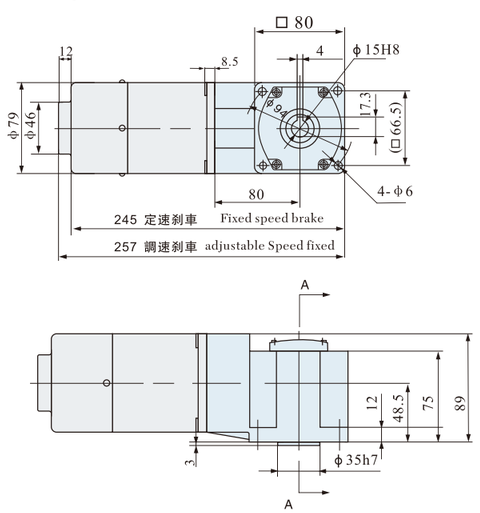
Combination: fixed speed / adjustable speed brake motor
+ right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 3.8 kg




## 80型 CAD 尺寸
## Model 80 CAD size

組合：剎車定速/調速電機+直角中空減速箱
減速比：1:10~1500
質量：3.7kg

Combination: fixed speed / adjustable speed brake motor +
right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 3.7kg








# 40W
## □90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK40GU-C 5IK40A-C | 感應 Induction | 40 | 單相 1-phase 220 | 50 | 0.35 | 367 | 3670 | 294 | 2940 | 1300 | 2.5/450 |
| | | | | 60 | 0.33 | 307 | 3070 | 246 | 2460 | 1550 | 2.5/450 |
| 5RK40GU-C 5RK40A-C | 可逆 Reversible | | | 50 | 0.38 | 367 | 3670 | 294 | 2940 | 1300 | 3.0/450 |
| | | | | 60 | 0.4 | 307 | 3070 | 246 | 2460 | 1550 | 3.0/450 |
| 5IK40GU-A 5IK40A-A | 感應 Induction | 40 | 單相 1-phase 110 | 50 | 0.70 | 367 | 3670 | 294 | 2940 | 1300 | 10/250 |
| | | | | 60 | 0.72 | 307 | 3070 | 246 | 2460 | 1550 | 10/250 |
| 5RK40GU-A 5RK40A-A | 可逆 Reversible | | | 50 | 0.76 | 367 | 3670 | 294 | 2940 | 1300 | 12/250 |
| | | | | 60 | 0.80 | 307 | 3070 | 246 | 2460 | 1550 | 12/250 |
| 5IK40GU-U 5IK40A-U | — | 40 | 三相 3-phase 380 | 50 | 0.24 | 367 | 3670 | 294 | 2940 | 1300 | — |
| | | | | 60 | 0.22 | 307 | 3070 | 246 | 2460 | 1550 | — |
| 5RK40GU-S 5RK40A-S | — | 40 | 三相 3-phase 220 | 50 | 0.42 | 367 | 3670 | 294 | 2940 | 1300 | — |
| | | | | 60 | 0.38 | 307 | 3070 | 246 | 2460 | 1550 | — |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
## Allowable load for the gear motor

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 40W kg.cm | 7.3 | 12 | 14.5 | 18 | 24.2 | 30 | 36 | 43.6 | 55 | 65.5 | 78 | 87 | 98 | 100 | | | | | | | | | |
| | 40W N.m | 0.72 | 1.18 | 1.43 | 1.77 | 2.4 | 2.94 | 3.53 | 4.28 | 5.0 | 6.24 | 7.7 | 8.57 | 9.64 | 9.81 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

# 25/30W

## □80mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4IK25GN-C 4IK25A-C | 感應 Induction | 25 | 單相 1-phase 220 | 50 | 0.22 | 231 | 2310 | 185 | 1850 | 1250 | 1.5/450 |
| | | | | 60 | 0.21 | 192 | 1920 | 154 | 1540 | 1550 | 1.5/450 |
| 4RK25GN-C 4RK25A-C | 可逆 Reversible | | | 50 | 0.24 | 231 | 2310 | 185 | 1850 | 1250 | 2/450 |
| | | | | 60 | 0.26 | 192 | 1920 | 154 | 1540 | 1550 | 2/450 |
| 4IK25GN-A 4IK25A-A | 感應 Induction | 25 | 單相 1-phase 110 | 50 | 0.48 | 231 | 2310 | 185 | 1850 | 1250 | 6/250 |
| | | | | 60 | 0.46 | 192 | 1920 | 154 | 1540 | 1550 | 6/250 |
| 4RK25GN-A 4RK25A-A | 可逆 Reversible | | | 50 | 0.50 | 231 | 2310 | 185 | 1850 | 1250 | 8/250 |
| | | | | 60 | 0.56 | 192 | 1920 | 154 | 1540 | 1550 | 8/250 |
| 4IK25GN-U 4IK25A-U | — | 25 | 三相 3-phase 380 | 50 | 0.14 | 231 | 2310 | 185 | 1850 | 1250 | — |
| | | | | 60 | 0.12 | 192 | 1920 | 154 | 1540 | 1550 | — |
| 4RK25GN-S 4RK25A-S | — | 25 | 三相 3-phase 220 | 50 | 0.24 | 231 | 2310 | 185 | 1850 | 1250 | — |
| | | | | 60 | 0.225 | 192 | 1920 | 154 | 1540 | 1550 | — |
| 4IK30GN-C 4IK30A-C | 感應 Induction | 30 | 單相 1-phase 220 | 50 | 0.28 | 275 | 2750 | 220 | 2200 | 1250 | 2.2/450 |
| | | | | 60 | 0.3 | 231 | 2310 | 185 | 1850 | 1550 | 2.2/450 |
| 4RK30GN-C 4RK30A-C | 可逆 Reversible | | | 50 | 0.3 | 275 | 2750 | 220 | 2200 | 1250 | 2.5/450 |
| | | | | 60 | 0.32 | 231 | 2310 | 185 | 1850 | 1550 | 2.5/450 |
| 4IK30GN-A 4IK30A-A | 感應 Induction | 30 | 單相 1-phase 110 | 50 | 0.58 | 275 | 2750 | 220 | 2200 | 1250 | 8/250 |
| | | | | 60 | 0.60 | 231 | 2310 | 185 | 1850 | 1550 | 8/250 |
| 4RK30GN-A 4RK30A-A | 可逆 Reversible | | | 50 | 0.60 | 275 | 2750 | 220 | 2200 | 1250 | 10/250 |
| | | | | 60 | 0.65 | 231 | 2310 | 185 | 1850 | 1550 | 10/250 |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
## Allowable load for the gear motor

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 |
| 最大允許負載 Max allowable load | 25W | kg.cm | 4.5 | 7.9 | 9.46 | 12 | 15.7 | 19 | 23 | 28.4 | 31.5 | 35 | 42 | 51.1 | 56.7 | 62 | 76.6 | 80 | | | | | | | |
| | | N.m | 0.45 | 0.79 | 0.93 | 1.18 | 1.55 | 1.86 | 2.25 | 2.78 | 3.1 | 3.43 | 4.12 | 5.01 | 5.57 | 6.18 | 7.52 | 7.84 | | | | | | | |
| | 30W | kg.cm | 5.7 | 8.1 | 11.3 | 14.2 | 18.9 | 23.6 | 28.3 | 34 | 37.8 | 42.5 | 51.1 | 60.2 | 68.1 | 65.7 | 80 | | | | | | | | |
| | | N.m | 0.56 | 0.8 | 1.1 | 1.39 | 1.85 | 2.32 | 2.78 | 3.34 | 3.7 | 4.17 | 5.01 | 6.01 | 6.68 | 6.5 | 7.84 | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





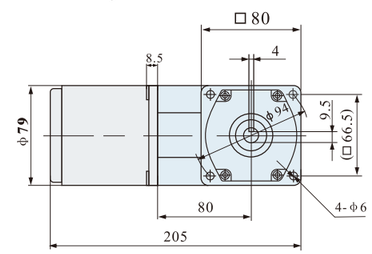
## 直角中實減速箱
Right angle solid-shaft reduction gear box

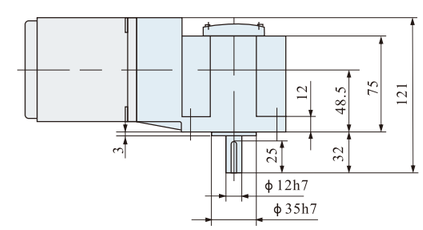
型號:4GN □RT-K　Model:4GN □RT-K
速比:1:10~1500　Gear ratio:1:10~1500

### 80型 CAD 尺寸
### Model 80 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：3.4kg

Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 3.4kg



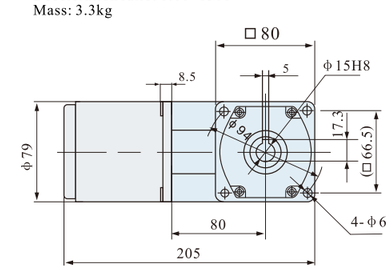

## 直角中空減速箱
Right angle hollow-shaft reduction gear box

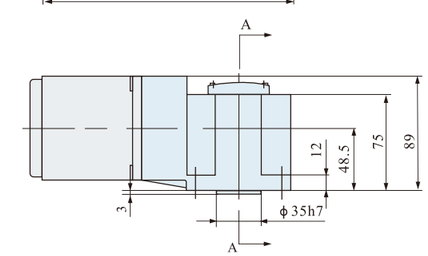
型號:4GN □RC-K　Model:4GN □RC-K
速比:1:10~1500　Gear ratio:1:10~1500

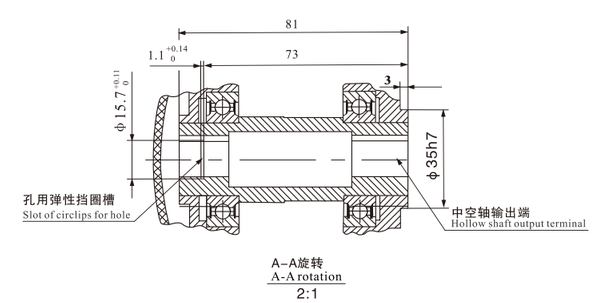
### 80型 CAD 尺寸
### Model 80 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：3.3kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 3.3kg



## 直角中實減速箱
Right angle solid-shaft reduction gear box

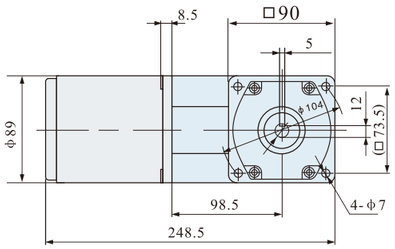
型号:5GU □RT-K
速比:1:10~1500

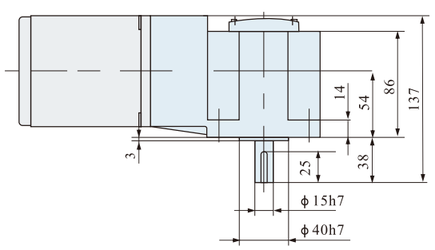
Model:5GU □RT-K
Gear ratio:1:10~1500

## 90型 CAD 尺寸
Model 90 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：5.3kg

Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.3kg




## 直角中空減速箱
Right angle hollow-shaft reduction gear box

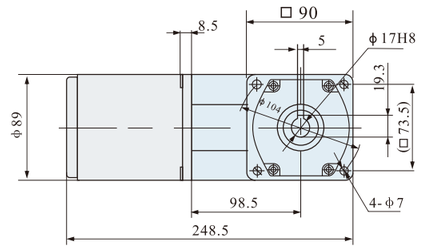
型号:5GU □RC-K
速比:1:10~1500

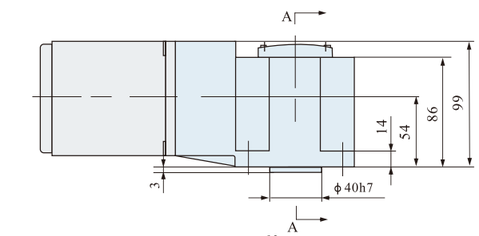
Model:5GU □RC-K
Gear ratio:1:10~1500

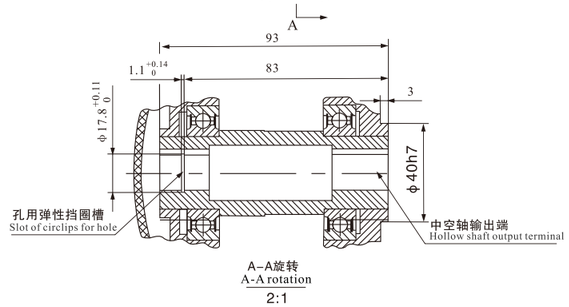
## 90型 CAD 尺寸
Model 90 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：5.2kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.2kg



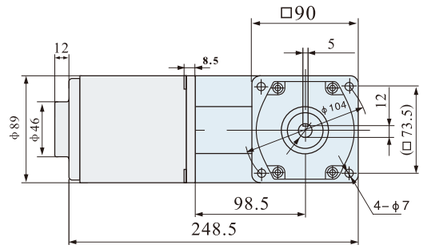


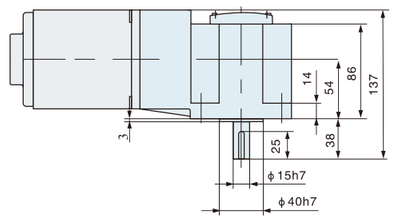



## 90型 CAD 尺寸
Model 90 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：5.4kg

Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.4kg

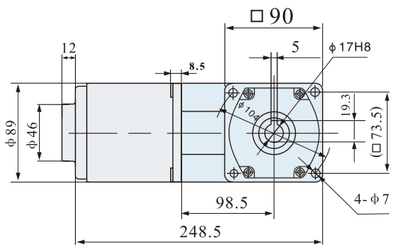


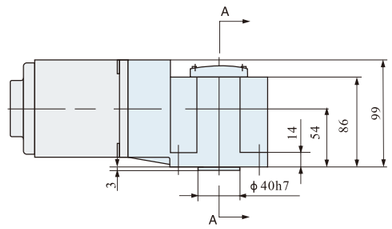




## 90型 CAD 尺寸
Model 90 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：5.3kg

Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.3kg

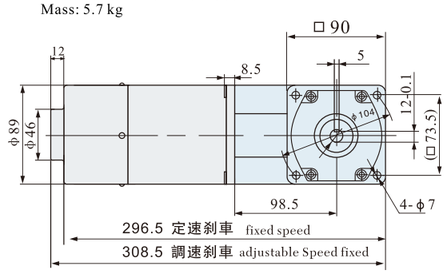


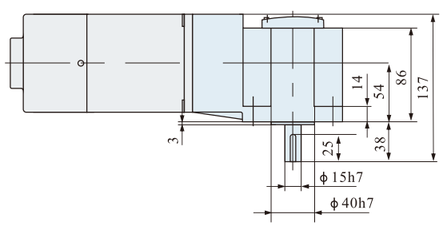




## 90型 CAD 尺寸
Model 90 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：5.7kg

Combination: fixed speed / adjustable speed brake motor
+ right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.7 kg

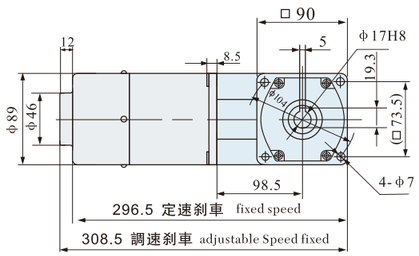


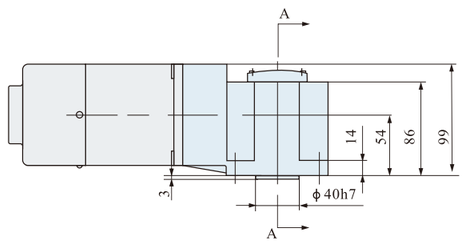




## 90型 CAD 尺寸
Model 90 CAD size

組合：剎車定速/調速電機+直角中空減速箱
減速比：1:10~1500
質量：5.6kg

Combination: fixed speed / adjustable speed brake motor +
right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.6kg



# 60W

□90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK60GU-CF 5IK60A-CF | 感應 Induction | 60 | 單相 1-phase 220 | 50 | 0.45 | 551 | 5510 | 441 | 4410 | 1350 | 3.5/450 |
| | | | | 60 | 0.48 | 462 | 4620 | 370 | 3700 | 1550 | 3.5/450 |
| 5RK60GU-CF 5RK60A-CF | 可逆 Reversible | | | 50 | 0.5 | 837 | 8370 | 670 | 6700 | 1350 | 4/450 |
| | | | | 60 | 0.52 | 692 | 6920 | 554 | 5540 | 1550 | 4/450 |
| 5IK60GU-AF 5IK60A-AF | 感應 Induction | 60 | 單相 1-phase 110 | 50 | 0.90 | 551 | 5510 | 441 | 4410 | 1350 | 14/250 |
| | | | | 60 | 0.88 | 462 | 4620 | 370 | 3700 | 1550 | 14/250 |
| 5RIK60GU-AF 5RK60A-AF | 可逆 Reversible | | | 50 | 1.0 | 837 | 8370 | 670 | 6700 | 1350 | 16/250 |
| | | | | 60 | 1.2 | 692 | 6920 | 554 | 5540 | 1550 | 16/250 |
| 5IK60GU-UF 5IK60A-UF | —— | 60 | 三相 3-phase 380 | 50 | 0.30 | 551 | 5510 | 441 | 4410 | 1350 | —— |
| | | | | 60 | 0.28 | 462 | 4620 | 370 | 3700 | 1550 | —— |
| 5RK60GU-SF 5RK60A-SF | —— | 60 | 三相 3-phase 220 | 50 | 0.52 | 551 | 5510 | 441 | 4410 | 1350 | —— |
| | | | | 60 | 0.48 | 462 | 4620 | 370 | 3700 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 375 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 40 | 35 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 4 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 60W | kg.cm | 11 | 14.6 | 18 | 21.8 | 27 | 36 | 41 | 50 | 65 | 81 | 98 | 117 | 130 | 147 | 200 | | | | | | | | | |
| | | N.m | 1.08 | 1.42 | 1.77 | 2.14 | 2.64 | 3.57 | 4.02 | 4.80 | 6.24 | 8.03 | 9.64 | 11.5 | 12.8 | 14.4 | 19.6 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





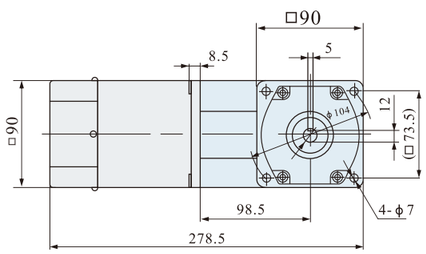
## 直角中實減速箱
Right angle solid-shaft reduction gear box

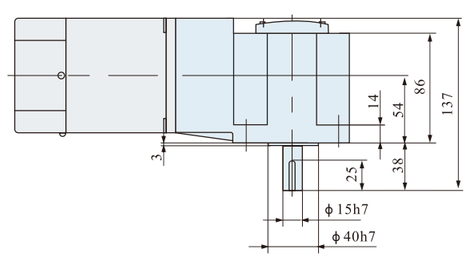
型号:5GU □RT-K　Model:5GU □RT-K
速比:1:10~1500　Gear ratio:1:10~1500

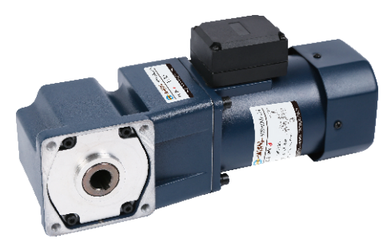
## 90型 CAD 尺寸
Model 90 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：5.4kg

Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.4kg



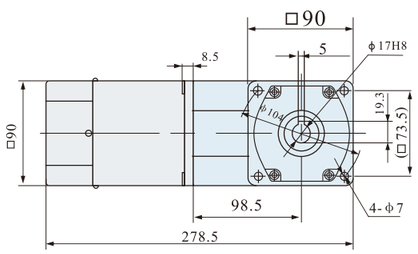
## 直角中空減速箱
Right angle hollow-shaft reduction gear box

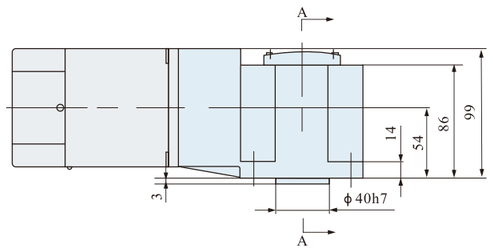
型号:5GU □ RC-K　Model:5GU □RC-K
速比:1:10~1500　Gear ratio:1:10~1500

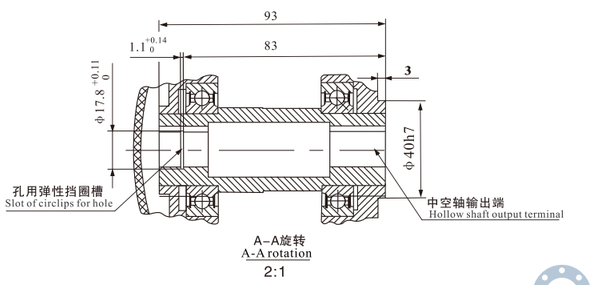
## 90型 CAD 尺寸
Model 90 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：5.3kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.3kg



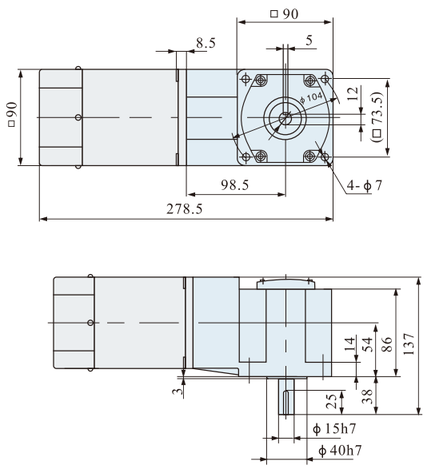



## 90型 CAD 尺寸
## Model 90 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：5.5kg

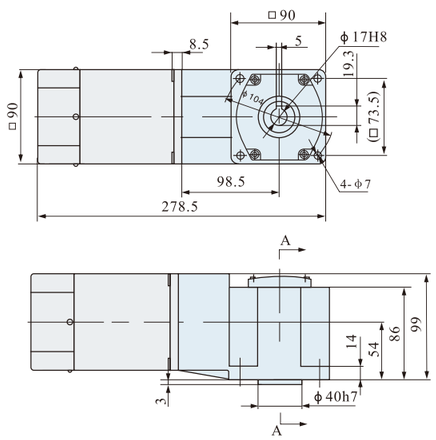
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.5kg




## 90型 CAD 尺寸
## Model 90 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：5.4kg

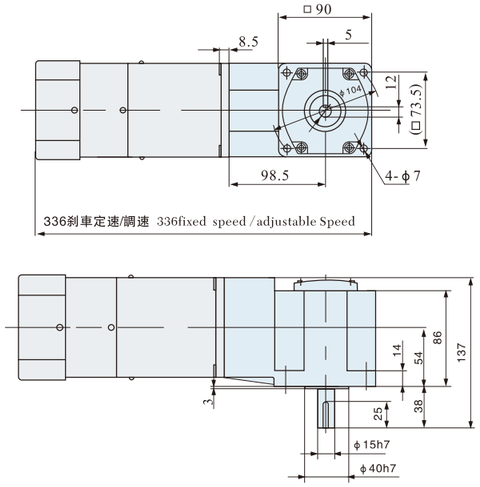
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.4kg




## 90型 CAD 尺寸
## Model 90 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：6.1kg

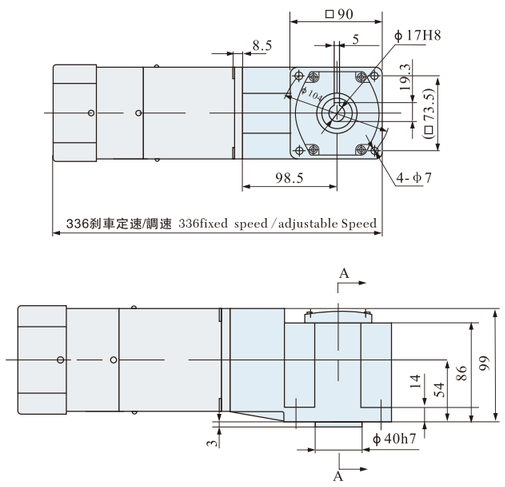
Combination: fixed speed / adjustable speed brake motor
+ right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6.1 kg




## 90型 CAD 尺寸
## Model 90 CAD size

組合：剎車定速/調速電機+直角中空減速箱
減速比：1:10~1500
質量：6kg

Combination: fixed speed / adjustable speed brake motor +
right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6kg








# 90/120W

## □90mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5IK90GU-CF 5IK90A-CF | 感應 Induction | 90 | 單相 1-phase 220 | 50 | 0.62 | 837 | 8370 | 670 | 6700 | 1350 | 5/450 |
| | | | | 60 | 0.60 | 692 | 6920 | 554 | 5540 | 1550 | 5/450 |
| 5RK90GU-CF 5RK90A-CF | 可逆 Reversible | | | 50 | 0.68 | 837 | 8370 | 670 | 6700 | 1350 | 6/450 |
| | | | | 60 | 0.72 | 692 | 6920 | 554 | 5540 | 1550 | 6/450 |
| 5IK90GU-AF 5IK90A-AF | 感應 Induction | 90 | 單相 1-phase 110 | 50 | 1.25 | 837 | 8370 | 670 | 6700 | 1350 | 20/250 |
| | | | | 60 | 1.2 | 692 | 6920 | 554 | 5540 | 1550 | 18/250 |
| 5RK90GU-AF 5RK90A-AF | 可逆 Reversible | | | 50 | 1.38 | 837 | 8370 | 670 | 6700 | 1350 | 24/250 |
| | | | | 60 | 1.5 | 692 | 6920 | 554 | 5540 | 1550 | 24/250 |
| 5IK90GU-UF 5IK90A-UF | —— | 90 | 三相 3-phase 380 | 50 | 0.32 | 837 | 8370 | 670 | 6700 | 1350 | —— |
| | | | | 60 | 0.3 | 692 | 6920 | 554 | 5540 | 1500 | —— |
| 5RK90GU-SF 5RK90A-SF | —— | 90 | 三相 3-phase 220 | 50 | 0.55 | 837 | 8370 | 670 | 6700 | 1350 | —— |
| | | | | 60 | 0.48 | 692 | 6920 | 554 | 5540 | 1500 | —— |
| 5IK120GU-CF 5IK120A-CF | 感應 Induction | 120 | 單相 1-phase 220 | 50 | 0.85 | 1137 | 11370 | 910 | 9100 | 1350 | 6/450 |
| | | | | 60 | 0.82 | 955 | 9550 | 764 | 7640 | 1500 | 6/450 |
| 5RK120GU-CF 5RK120A-CF | 可逆 Reversible | | | 50 | 0.95 | 1137 | 11370 | 910 | 9100 | 1350 | 8/450 |
| | | | | 60 | 1.0 | 955 | 9550 | 764 | 7640 | 1500 | 8/450 |
| 5IK120GU-AF 5IK120A-AF | 感應 Induction | 120 | 單相 1-phase 110 | 50 | 1.7 | 1137 | 11370 | 910 | 9100 | 1350 | 24/250 |
| | | | | 60 | 1.65 | 955 | 9550 | 764 | 7640 | 1500 | 24/250 |
| 5RK120GU-AF 5RK120A-AF | 可逆 Reversible | | | 50 | 1.9 | 1137 | 11370 | 910 | 9100 | 1350 | 30/250 |
| | | | | 60 | 2.1 | 955 | 9550 | 764 | 7640 | 1500 | 30/250 |
| 5RK120GU-UF 5RK120A-UF | —— | 120 | 三相 3-phase 380 | 50 | 0.34 | 1137 | 11370 | 910 | 9100 | 1350 | —— |
| | | | | 60 | 0.31 | 955 | 9550 | 764 | 7640 | 1500 | —— |
| 5RK120GU-SF 5RK120A-SF | —— | 120 | 三相 3-phase 220 | 50 | 0.59 | 1137 | 11370 | 910 | 9100 | 1350 | —— |
| | | | | 60 | 0.54 | 955 | 9550 | 764 | 7640 | 1500 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
## Allowable load for the gear motor

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 250 | 200 | 150 | 120 | 100 | 75 | 60 | 50 | 45 | 37.5 | 30 | 25 | 20 | 15 | 12.5 | 10 | 8 | 7.5 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 6 | 7.5 | 10 | 12.5 | 15 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 90W | kg.cm | 15.7 | 26.5 | 31.5 | 39.4 | 52.5 | 65.7 | 71 | 94.6 | 118 | 141 | 170 | 189 | 200 | | | | | | | | | | |
| | | N.m | 1.54 | 2.6 | 3.1 | 3.86 | 5.15 | 6.44 | 6.96 | 9.28 | 11.6 | 13.9 | 16.7 | 18.5 | 19.6 | | | | | | | | | | |
| | 120W | kg.cm | 21.5 | 36 | 42 | 54 | 70 | 87.57 | 98 | 126 | 148 | 189 | 200 | | | | | | | | | | | | |
| | | N.m | 2.11 | 3.52 | 4.13 | 5.28 | 6.88 | 8.59 | 9.6 | 12.4 | 14.5 | 18.5 | 19.6 | | | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

## 直角中實減速箱
Right angle solid-shaft reduction gear box

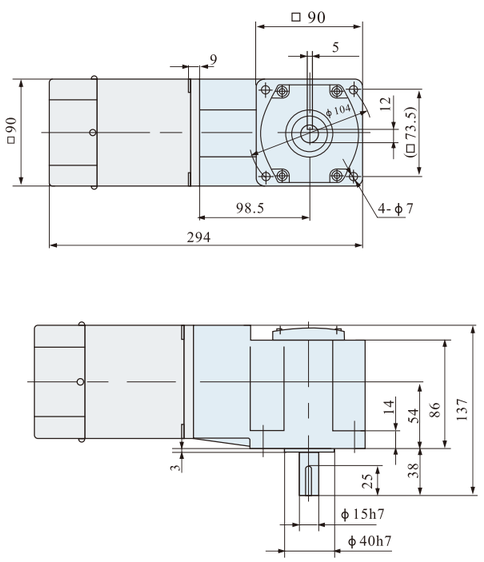
型号:5GU □RT-K
速比:1:10~1500

Model:5GU□ RT-K
Gear ratio:1:10~1500

## 90型 CAD 尺寸
## Model 90 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：5.9kg

Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.9kg




## 直角中空減速箱
Right angle hollow-shaft reduction gear box

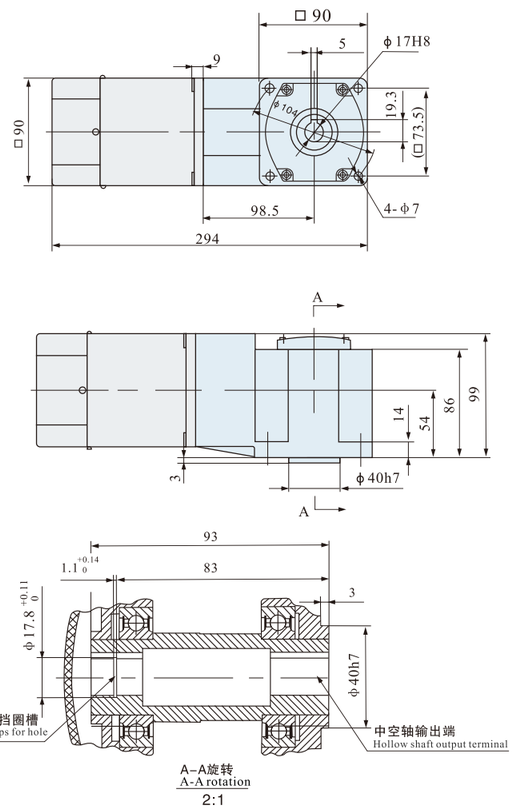
型号:5GU □RC-K
速比:1:10~1500

Model:5GU□ RC-K
Gear ratio:1:10~1500

## 90型 CAD 尺寸
## Model 90 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：5.8kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 5.8kg



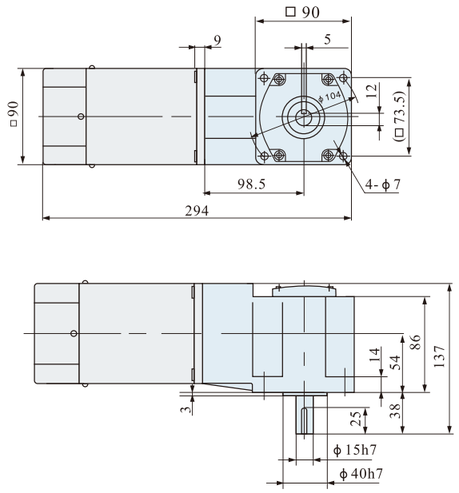





## 90型 CAD 尺寸
## Model 90 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：6kg

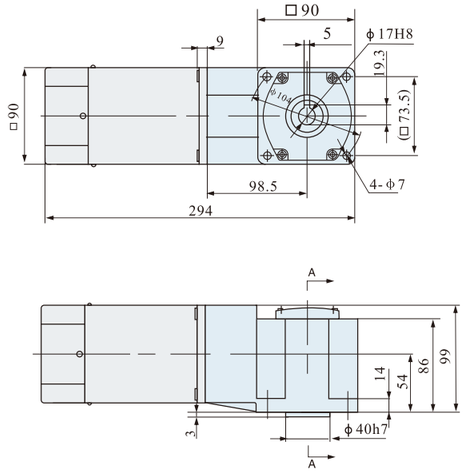
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 6kg




## 90型 CAD 尺寸
## Model 90 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：5.9kg

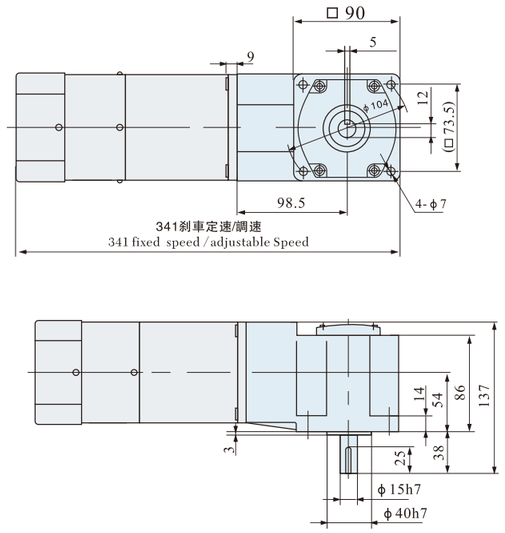
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 5.9kg




## 90型 CAD 尺寸
## Model 90 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：6.6kg

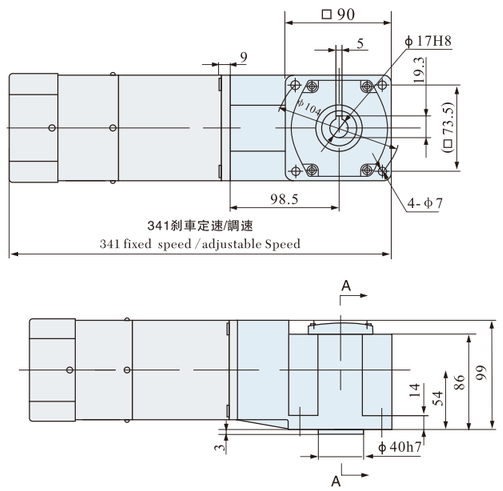
Combination: fixed speed / adjustable speed brake motor
+ right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6.6 kg




## 90型 CAD 尺寸
## Model 90 CAD size

組合：剎車定速/調速電機+直角中空減速箱
減速比：1:10~1500
質量：6.5kg

Combination: fixed speed / adjustable speed brake motor +
right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 6.5kg



# 120/140W

□100mm


## 電機特性
List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK120GU-CF 6IK120A-CF | 感應 Induction | 120 | 單相 1-phase 220 | 50 | 1.0 | 1100 | 11000 | 880 | 8800 | 1350 | 6/450 |
| | | | | 60 | 1.0 | 925 | 9250 | 740 | 7400 | 1550 | 6/450 |
| 6RK120GU-CF 6RK120A-CF | 可逆 Reversible | | | 50 | 1.2 | 1575 | 15750 | 1260 | 12600 | 1350 | 8/450 |
| | | | | 60 | 1.4 | 1225 | 12250 | 980 | 9800 | 1550 | 8/450 |
| 6IK120GU-AF 6IK120A-AF | 感應 Induction | 120 | 單相 1-phase 110 | 50 | 1.7 | 1100 | 11000 | 880 | 8800 | 1350 | 30/250 |
| | | | | 60 | 1.6 | 925 | 9250 | 740 | 7400 | 1550 | 28/250 |
| 6RK120GU-AF 6RK120A-AF | 可逆 Reversible | | | 50 | 1.8 | 1575 | 15750 | 1260 | 12600 | 1350 | 32/250 |
| | | | | 60 | 2.0 | 1225 | 12250 | 980 | 9800 | 1550 | 32/250 |
| 6IK120GU-UF 6IK120A-UF | —— | 120 | 三相 3-phase 380 | 50 | 0.46 | 1100 | 11000 | 880 | 8800 | 1350 | —— |
| | | | | 60 | 0.42 | 925 | 9250 | 740 | 7400 | 1550 | —— |
| 6RK120GU-SF 6RK120A-SF | —— | 120 | 三相 3-phase 220 | 50 | 0.8 | 1100 | 11000 | 880 | 8800 | 1350 | —— |
| | | | | 60 | 0.73 | 925 | 9250 | 740 | 7400 | 1550 | —— |
| 6IK140GU-CF 6IK140A-CF | 感應 Induction | 140 | 單相 1-phase 220 | 50 | 1.23 | 1285 | 12850 | 1028 | 10280 | 1350 | 8/450 |
| | | | | 60 | 1.12 | 1078 | 10780 | 863 | 8630 | 1550 | 8/450 |
| 6RK140GU-CF 6RK140A-CF | 可逆 Reversible | | | 50 | 1.3 | 1285 | 12850 | 1028 | 10280 | 1350 | 10/450 |
| | | | | 60 | 1.43 | 1078 | 10780 | 863 | 8630 | 1550 | 10/450 |
| 6IK140GU-AF 6IK140A-AF | 感應 Induction | 140 | 單相 1-phase 110 | 50 | 2.05 | 1285 | 12850 | 1028 | 10280 | 1350 | 32/250 |
| | | | | 60 | 1.9 | 1078 | 10780 | 863 | 8630 | 1550 | 30/250 |
| 6RK140GU-AF 6RK140A-AF | 可逆 Reversible | | | 50 | 2.2 | 1285 | 12850 | 1028 | 10280 | 1350 | 40/250 |
| | | | | 60 | 2.4 | 1078 | 10780 | 863 | 8630 | 1550 | 32/250 |
| 6RK140GU-UF 6RK140A-UF | —— | 140 | 三相 3-phase 380 | 50 | 0.55 | 1285 | 12850 | 1028 | 10280 | 1350 | —— |
| | | | | 60 | 0.46 | 1078 | 10780 | 863 | 8630 | 1550 | —— |
| 6RK140GU-SF 6RK140A-SF | —— | 140 | 三相 3-phase 220 | 50 | 0.88 | 1285 | 12850 | 1028 | 10280 | 1350 | —— |
| | | | | 60 | 0.80 | 1078 | 10780 | 863 | 8630 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 41 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 120W | kg.cm | 21.5 | 36 | 54 | 69.8 | 85 | 103 | 125 | 139 | 172 | 209 | 226 | 251 | 315 | | | | | | | | | | |
| | | N.m | 2.11 | 3.52 | 5.28 | 6.85 | 8.45 | 10.2 | 12.3 | 13.6 | 16.9 | 20.5 | 22.14 | 24.6 | 31 | | | | | | | | | | |
| | 140W | kg.cm | 25.1 | 42 | 63 | 73.5 | 99.2 | 120 | 132 | 147 | 200.7 | 221 | 238 | 265 | 330 | | | | | | | | | | |
| | | N.m | 2.46 | 4.11 | 6.16 | 8.02 | 9.86 | 11.8 | 13 | 14.4 | 19.73 | 21.7 | 23.4 | 26 | 32.5 | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





# 160/180W

□100mm

## 電機特性
**List of motor characteristics**

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK160GU-CF 6IK160A-CF | 感應 Induction | 160 | 單相 1-phase 220 | 50 | 1.25 | 1575 | 15750 | 1260 | 12600 | 1350 | 8/450 |
| | | | | 60 | 1.24 | 1225 | 12250 | 980 | 9800 | 1550 | 8/450 |
| 6RK160GU-CF 6RK160A-CF | 可逆 Reversible | | | 50 | 1.4 | 1575 | 15750 | 1260 | 12600 | 1350 | 10/450 |
| | | | | 60 | 1.46 | 1225 | 12250 | 980 | 9800 | 1550 | 10/450 |
| 6IK160GU-AF 6IK160A-AF | 感應 Induction | 160 | 單相 1-phase 110 | 50 | 2.4 | 1575 | 15750 | 1260 | 12600 | 1350 | 32/250 |
| | | | | 60 | 2.2 | 1225 | 12250 | 980 | 9800 | 1550 | 30/250 |
| 6RK160GU-AF 6RK160A-AF | 可逆 Reversible | | | 50 | 2.6 | 1575 | 15750 | 1260 | 12600 | 1350 | 40/250 |
| | | | | 60 | 2.8 | 1225 | 12250 | 980 | 9800 | 1550 | 36/250 |
| 6IK160GU-UF 6IK160A-UF | —— | 160 | 三相 3-phase 380 | 50 | 0.55 | 1468 | 14680 | 1175 | 11750 | 1350 | —— |
| | | | | 60 | 0.50 | 1232 | 12320 | 986 | 9860 | 1550 | —— |
| 6RK160GU-SF 6RK160A-SF | —— | 160 | 三相 3-phase 220 | 50 | 0.95 | 1468 | 14680 | 1175 | 11750 | 1350 | —— |
| | | | | 60 | 0.86 | 1232 | 12320 | 986 | 9860 | 1550 | —— |
| 6IK180GU-CF 6IK180A-CF | 感應 Induction | 180 | 單相 1-phase 220 | 50 | 1.50 | 1837 | 18370 | 1470 | 14700 | 1350 | 10/450 |
| | | | | 60 | 1.46 | 1540 | 15400 | 1232 | 12320 | 1550 | 10/450 |
| 6RK180GU-CF 6RK180A-CF | 可逆 Reversible | | | 50 | 1.50 | 1837 | 18370 | 1470 | 14700 | 1350 | 12/450 |
| | | | | 60 | 1.46 | 1540 | 15400 | 1232 | 12320 | 1550 | 12/450 |
| 6IK180GU-AF 6IK180A-AF | 感應 Induction | 180 | 單相 1-phase 110 | 50 | 2.8 | 1837 | 18370 | 1470 | 14700 | 1350 | 40/250 |
| | | | | 60 | 2.6 | 1540 | 15400 | 1232 | 12320 | 1550 | 40/250 |
| 6RK180GU-AF 6RK180A-AF | 可逆 Reversible | | | 50 | 2.8 | 1837 | 18370 | 1470 | 14700 | 1350 | 48/250 |
| | | | | 60 | 2.6 | 1540 | 15400 | 1232 | 12320 | 1550 | 48/250 |
| 6RK180GU-UF 6RK180A-UF | —— | 180 | 三相 3-phase 380 | 50 | 0.80 | 1825 | 18250 | 1460 | 14600 | 1350 | —— |
| | | | | 60 | 0.75 | 1475 | 14750 | 1180 | 11800 | 1550 | —— |
| 6RK180GU-SF 6RK180A-SF | —— | 180 | 三相 3-phase 220 | 50 | 1.05 | 1825 | 18250 | 1460 | 14600 | 1350 | —— |
| | | | | 60 | 1.0 | 1475 | 14750 | 1180 | 11800 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

## 減速電機允許負載
**Allowable load for the gear motor**

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 41 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 | 5 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 | 300 | 500 |
| 最大允許負載 Max allowable load | 160W | kg.cm | 28.7 | 48 | 72 | 87 | 113.3 | 137.3 | 157 | 174 | 229 | 261 | 285 | 317 | 396 | 440 | | | | | | | | | |
| | | N.m | 2.81 | 4.69 | 7.04 | 8.53 | 11.27 | 13.53 | 15.4 | 17 | 22.6 | 25.6 | 28 | 31.1 | 38.8 | 43 | | | | | | | | | |
| | 180W | kg.cm | 32.3 | 54 | 81 | 94.7 | 127.5 | 154.5 | 170 | 189 | 237 | 284 | 310 | 344 | 430 | 440 | | | | | | | | | |
| | | N.m | 3.17 | 5.28 | 7.92 | 9.28 | 12.68 | 15.23 | 16.7 | 18.7 | 23.2 | 27.8 | 30.1 | 33.4 | 42.2 | 43 | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

# 200/250W

## □100mm

### 電機特性
### List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK200GU-CF 6IK200A-CF | 感應 Induction | 200 | 單相 1-phase 220 | 50 | 1.55 | 1485 | 14850 | 1414 | 14140 | 1350 | 8/450 |
| | | | | 60 | 1.5 | 1294 | 12940 | 1232 | 12320 | 1550 | 8/450 |
| 6RK200GU-CF 6RK200A-CF | 可逆 Reversible | | | 50 | 1.55 | 1485 | 14850 | 1414 | 14140 | 1350 | 10/450 |
| | | | | 60 | 1.5 | 1294 | 12940 | 1232 | 12320 | 1550 | 10/450 |
| 6IK200GU-AF 6IK200A-AF | 感應 Induction | 200 | 單相 1-phase 110 | 50 | 3.0 | 1485 | 14850 | 1414 | 14140 | 1350 | 32/250 |
| | | | | 60 | 2.8 | 1294 | 12940 | 1232 | 12320 | 1550 | 30/250 |
| 6RK200GU-AF 6RK200A-AF | 可逆 Reversible | | | 50 | 3.0 | 1485 | 14850 | 1414 | 14140 | 1350 | 40/250 |
| | | | | 60 | 2.8 | 1294 | 12940 | 1232 | 12320 | 1550 | 36/250 |
| 6IK200GU-UF 6IK200A-UF | —— | 200 | 三相 3-phase 380 | 50 | 0.9 | 1600 | 16000 | 1450 | 14500 | 1350 | —— |
| | | | | 60 | 0.87 | 1386 | 13860 | 1260 | 12600 | 1550 | —— |
| 6RK200GU-SF 6RK200A-SF | —— | 200 | 三相 3-phase 220 | 50 | 1.15 | 1600 | 16000 | 1450 | 14500 | 1350 | —— |
| | | | | 60 | 1.1 | 1386 | 13860 | 1260 | 12600 | 1550 | —— |
| 6IK250GU-CF 6IK250A-CF | 感應 Induction | 250 | 單相 1-phase 220 | 50 | 1.6 | 2020 | 20200 | 1837 | 18370 | 1350 | 10/450 |
| | | | | 60 | 1.55 | 1700 | 17000 | 1540 | 15400 | 1550 | 10/450 |
| 6RK250GU-CF 6RK250A-CF | 可逆 Reversible | | | 50 | 1.6 | 2020 | 20200 | 1837 | 18370 | 1350 | 12/450 |
| | | | | 60 | 1.55 | 1700 | 17000 | 1540 | 15400 | 1550 | 12/450 |
| 6IK250GU-AF 6IK250A-AF | 感應 Induction | 250 | 單相 1-phase 110 | 50 | 3.2 | 2020 | 20200 | 1837 | 18370 | 1350 | 40/250 |
| | | | | 60 | 3.0 | 1700 | 17000 | 1540 | 15400 | 1550 | 40/250 |
| 6RK250GU-AF 6RK250A-AF | 可逆 Reversible | | | 50 | 3.3 | 2020 | 20200 | 1837 | 18370 | 1350 | 48/250 |
| | | | | 60 | 3.2 | 1700 | 17000 | 1540 | 15400 | 1550 | 48/250 |
| 6RK250GU-UF 6RK250A-UF | —— | 250 | 三相 3-phase 380 | 50 | 1.3 | 2022 | 20220 | 1840 | 18400 | 1350 | —— |
| | | | | 60 | 1.2 | 1760 | 17600 | 1600 | 16000 | 1550 | —— |
| 6RK250GU-SF 6RK250A-SF | —— | 250 | 三相 3-phase 220 | 50 | 1.21 | 2022 | 20220 | 1840 | 18400 | 1350 | —— |
| | | | | 60 | 1.15 | 1760 | 17600 | 1600 | 16000 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

### 減速電機允許負載
### Allowable load for the gear motor

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 85 | 75 | 60 | 50 | 40 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 |
| 最大允許負載 Max allowable load | 200W | kg.cm | 39.4 | 66 | 89.8 | 119 | 149 | 180 | 214 | 239 | 299 | 358 | 392 | 435 | 440 | | | | | | | | |
| | | N.m | 3.86 | 6.44 | 8.8 | 11.7 | 14.5 | 17.6 | 21.0 | 23.4 | 29.3 | 35.1 | 38.4 | 42.6 | 43 | | | | | | | | |
| | 250W | kg.cm | 49.3 | 82.1 | 112 | 149 | 486 | 224 | 268 | 298 | 375 | 438 | 440 | | | | | | | | | | |
| | | N.m | 4.83 | 8.1 | 11 | 14.6 | 18.3 | 22 | 26.4 | 29.3 | 36.6 | 43 | 43 | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.





# 370W

## □100mm

### 電機特性
### List of motor characteristics

| 電機型號 Motor model / 公司型號 JWD types | 規格 Specs | 輸出功率 Output Power W | 電源電壓 Voltage V | 頻率 Frequency Hz | 電流 Current A | 起動扭矩 Starting Torque mN.m | 起動扭矩 Starting Torque gf.cm | 額定扭矩 Rated Torque mN.m | 額定扭矩 Rated Torque gf.cm | 額定轉速 Rated Revolution r/min | 電容容量/耐壓 Capacity/Ve μF/VAC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6IK370GU-CF 6IK370A-CF | 感應 Induction | 370 | 單相 1-phase 220 | 50 | 2.3 | 2944 | 29440 | 2560 | 25660 | 1350 | 15/450 |
| | | | | 60 | 2.1 | 2622 | 26220 | 2280 | 22880 | 1550 | 15/450 |
| 6RK370GU-CF 6RK370A-CF | 可逆 Reversible | | | 50 | 2.3 | 2944 | 29440 | 2560 | 25660 | 1350 | 15/450 |
| | | | | 60 | 2.1 | 2622 | 26220 | 2280 | 22880 | 1550 | 15/450 |
| 6IK370GU-AF 6IK370A-AF | 感應 Induction | 370 | 單相 1-phase 110 | 50 | 3.0 | 2944 | 29440 | 2560 | 25660 | 1350 | 32/250 |
| | | | | 60 | 2.8 | 2622 | 26220 | 2280 | 22880 | 1550 | 30/250 |
| 6RK370GU-AF 6RK370A-AF | 可逆 Reversible | | | 50 | 3.0 | 2944 | 29440 | 2560 | 25660 | 1350 | 40/250 |
| | | | | 60 | 2.8 | 2622 | 26220 | 2280 | 22880 | 1550 | 36/250 |
| 6IK370GU-UF 6IK370A-UF | —— | 370 | 三相 3-phase 380 | 50 | 1.4 | 3018 | 30180 | 2624 | 26240 | 1350 | —— |
| | | | | 60 | 1.2 | 2680 | 26800 | 2330 | 23300 | 1550 | —— |
| 6RK370GU-SF 6RK370A-SF | —— | 370 | 三相 3-phase 220 | 50 | 2.5 | 3018 | 30180 | 2624 | 26240 | 1350 | —— |
| | | | | 60 | 2.0 | 2680 | 26800 | 2330 | 23300 | 1550 | —— |

- 上表參數是指電機單體，不附加任何負荷裝置。
- 電機額定轉速、額定電流允許在±5%範圍內變動。

- Parameters in above table refer to motor alone,without any load device.
- Permissible change in rated speed and rated current of the motor is within the range of ±5%.

### 減速電機允許負載
### Allowable load for the gear motor

| 減速參數 Geared-down parameter | 同步轉速r/mn Synchronous speed | | 500 | 300 | 200 | 150 | 120 | 100 | 85 | 75 | 60 | 50 | 40 | 37 | 30 | 25 | 20 | 15 | 12 | 10 | 8 | 7 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 減速比i ratio | | 3 | 5 | 7.5 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 100 | 120 | 150 | 180 | 200 | 250 |
| 最大允許負載 Max allowable load | 370W | kg.cm | 62.2 | 106 | 142 | 190 | 238 | 285 | 342 | 381 | 440 | | | | | | | | | | | | |
| | | N.m | 6.22 | 10.4 | 14.0 | 18.6 | 23.3 | 28 | 33.6 | 37.3 | 43 | | | | | | | | | | | | |

- 轉速是以電動機的同步轉速爲基準除以減速比而算出的數值。實際轉速將隨負載大小變化而比所示數值減少2~15%左右。
- 希望以大于上表的減速比進一步減速時，可在電動機與減速機之間安裝減速比爲10的中間減速機。
- 當負載扭矩超過減速電機最大允許負載扭矩，并有堵轉情況存在時，請在減速箱輸出軸和負載連接處加裝扭矩限制裝置，確保齒輪減速箱正常運行。

- The speed is based on the synchronous motor speed reduction ratio as a benchmark calculated by dividing the value of.Actual speed will vary the size of the load changes in less than the values shown in2~15%.
- Hope to the table of the reduction ratio is greater than the further reduction,it would be installed between the motor and the reducer reduction ratiio of 10 the middle of the reducer.
- When the load torque exceeds the maximum allowable load torque gear motor,and a locked rotor situation exists,please slow down box at the junction of the output shaft and load torque limit device installed to ensure the normal operation gearbox.

## 直角中實減速箱
Right angle solid-shaft reduction gear box

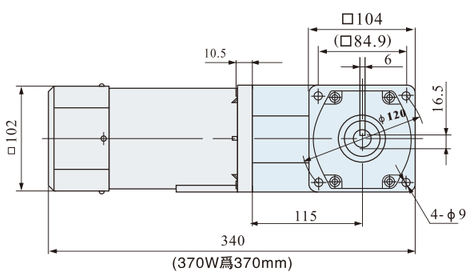
型号:6GU □RT-K
速比:1:10~1500

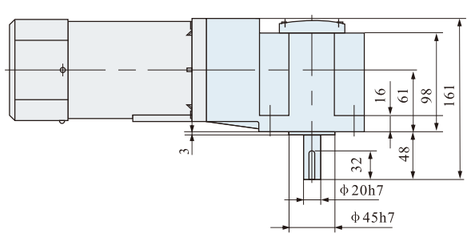
Model:6GU□ RT-K
Gear ratio:1:10~1500

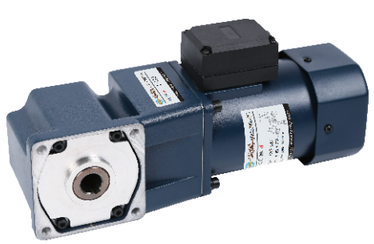
## 100型 CAD 尺寸
## Model 100 CAD size

組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：8.8kg

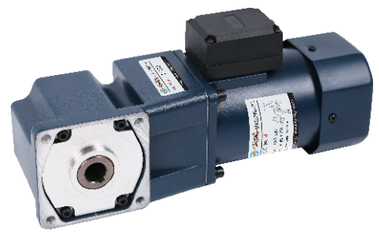
Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.8kg



## 直角中空減速箱
Right angle hollow-shaft reduction gear box



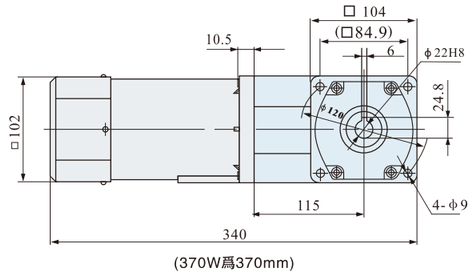
型号:6GU □RC-K
速比:1:10~1500

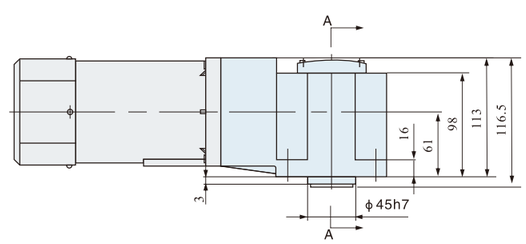
Model:6GU□ RC-K
Gear ratio:1:10~1500

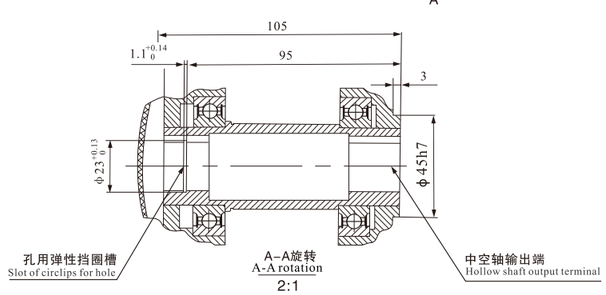
## 100型 CAD 尺寸
## Model 100 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：8.7kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.7 kg



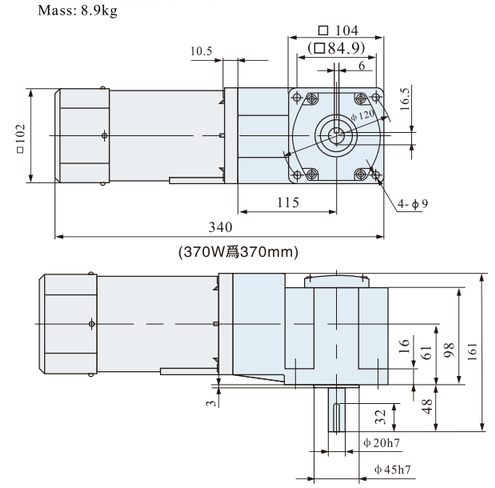





## 100型 CAD 尺寸
## Model 100 CAD size

組合：調速電機+直角中實減速箱
減速比：1:10~1500
質量：8.9kg

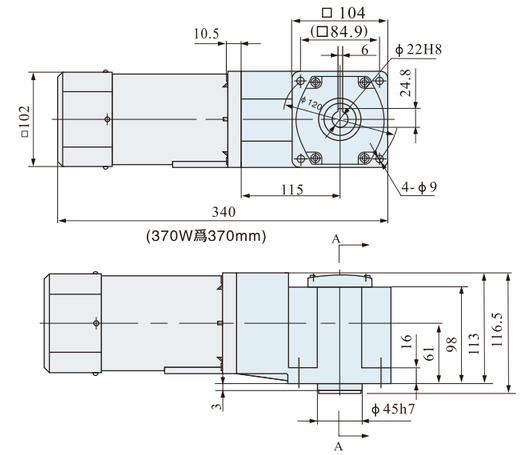
Combination: adjustable speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.9kg




## 100型 CAD 尺寸
## Model 100 CAD size

組合：調速電機+直角中空減速箱
減速比：1:10~1500
質量：8.8kg

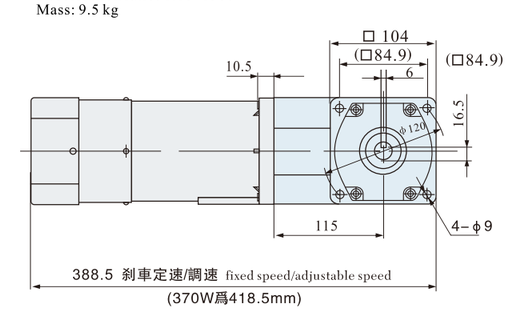
Combination: adjustable speed motor + right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass:8.8kg

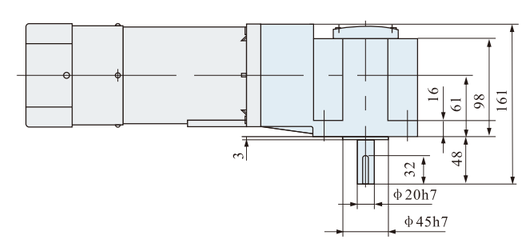



## 100型 CAD 尺寸
## Model 100 CAD size

組合：剎車定速/調速電機+直角中實減速箱
減速比：1:10~1500
質量：9.5kg

Combination: fixed speed / adjustable speed brake motor
+ right angle solid deceleration gear box
Deceleration ratio: 1:10~1500
Mass: 9.5 kg

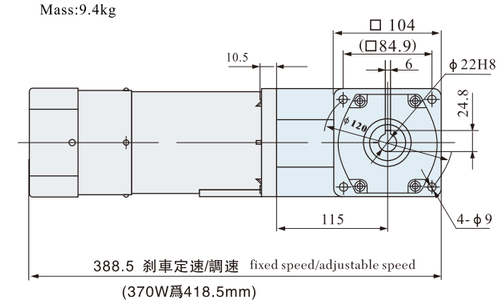


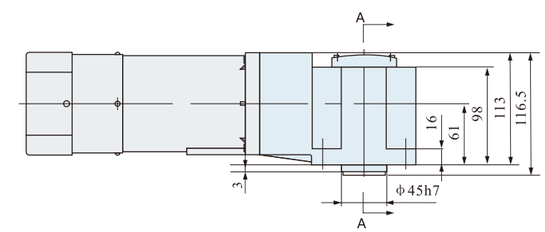




## 100型 CAD 尺寸
## Model 100 CAD size

組合：剎車定速/調速電機+直角中空減速箱
減速比：1:10~1500
質量：9.4kg

Combination: fixed speed / adjustable speed brake motor +
right angle hollow deceleration gear box
Deceleration ratio: 1:10~1500
Mass:9.4kg



## 直角中實減速箱
Right angle solid-shaft reduction gear box

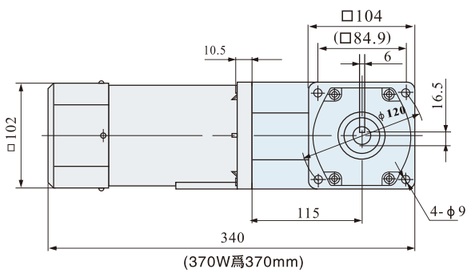
型号:6GU □RT-K
速比:1:10~1500

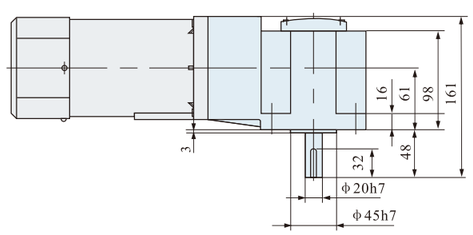
Model:6GU□ RT-K
Gear ratio:1:10~1500

## 100型 CAD 尺寸
## Model 100 CAD size

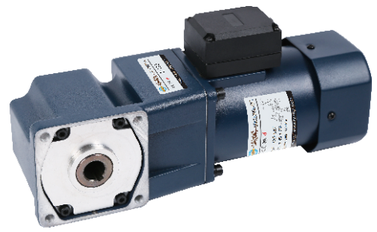
組合：定速電機+直角中實減速箱
減速比：1:10~1500
質量：8.8kg

Combination: fixed speed motor + right angle solid reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.8kg




## 直角中空減速箱
Right angle hollow-shaft reduction gear box



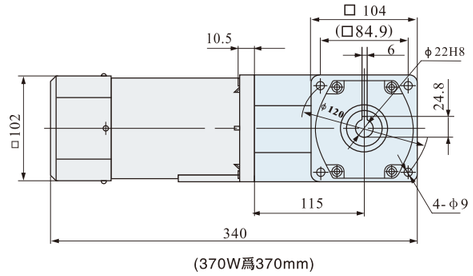
型号:6GU □RC-K
速比:1:10~1500

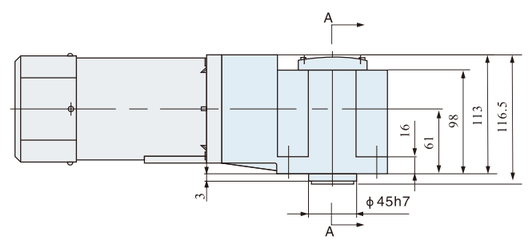
Model:6GU□ RC-K
Gear ratio:1:10~1500

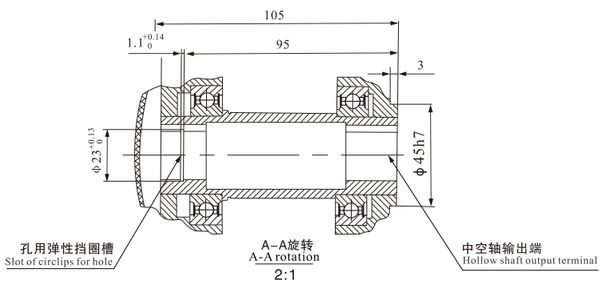
## 100型 CAD 尺寸
## Model 100 CAD size

組合：定速電機+直角中空減速箱
減速比：1:10~1500
質量：8.7kg

Combination: fixed speed motor + right angle hollow reduction gear box
Deceleration ratio: 1:10~1500
Mass: 8.7kg



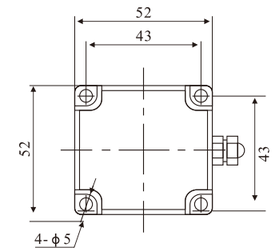



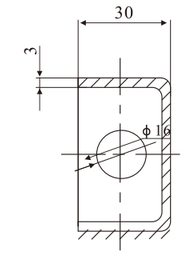




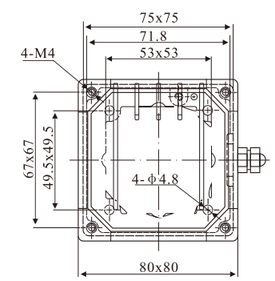

# 接綫盒種類
## Type of junction box

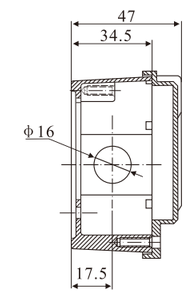
### 防水接綫盒 Waterproof junction box



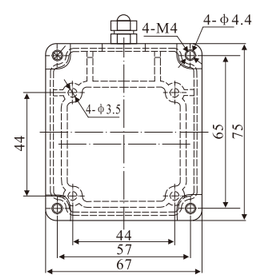



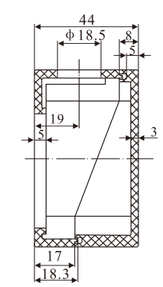

### D型接綫盒 D type junction box



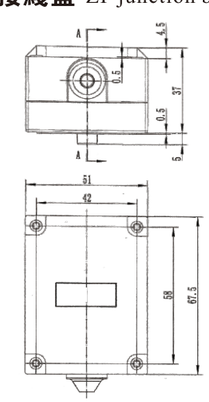



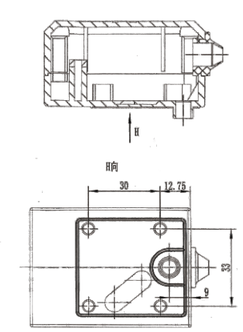

### SX型接綫盒 SX type junction box




### ZP接綫盒 ZP junction box



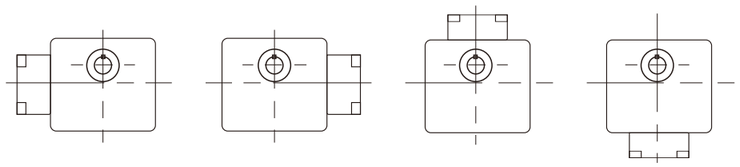




# 接綫盒方向選定 Junction box orientation selected

## 微特馬達配綫盒方向選定
Micro motor wiring box direction selected

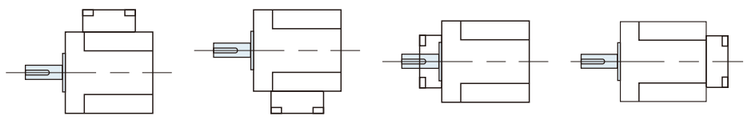
| TYPE | G1–左方向 LEFT SIDE | G2–右方向 RIGHT SIDE | G3–上方向 UPPER SIDE | G4–下方向 LOWER SIDE |
|---|---|---|---|---|

### 平行軸
Parallel axis



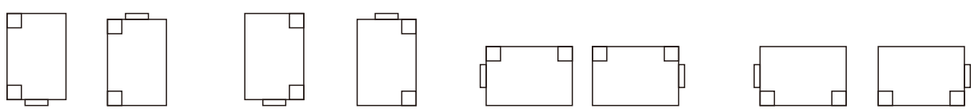
| G1 | G2 | G3 | G4 |
|---|---|---|---|

### 直交軸
Orthogonal axis



| G1 | G2 | G3 | G4 |
|---|---|---|---|

## 入綫口方向
Wire inlet direction



| （左下） Left lower | （左上） Top left | （右下） Right lower | （右上） Upper right | （上左） Onthe left | （上右） On the right | （下左） Under the left | （下右） lower right |
|---|---|---|---|---|---|---|---|
| LD | LT | RD | RT | TL | TR | DL | DR |

| （左前） Left front | （左後） Left back | （右前） Right front | （右後） right back | （上前） left front | （上後） left back | （下前） lower front | （下後） lower back |
|---|---|---|---|---|---|---|---|
| LF | LB | RF | RB | TF | TB | DF | DB |



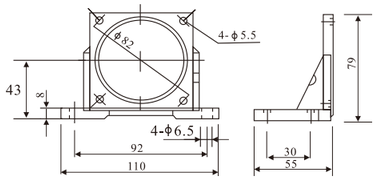
# 二極電機
## Two-pole motor

### 電機性能参數 Motor performance parameter

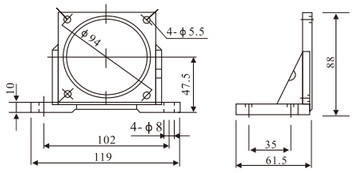
| 機 種 Kinds 圓 軸Circular Axis | 出 力 Output Force (W) | 電 壓 Voltage (V) | 頻 率 Frequency (Hz) | 極數 Poles (P) | 額定轉速 RatedRevolution (rpm) | 起動轉矩 Starting Torque (Kg.cm) | 額定轉矩 Rated Torque (Kg.cm) | 額定電流 Rated Current (A) | 電容量 Electric Capacity (μF) | 額定時間 Rated Time |
|---|---|---|---|---|---|---|---|---|---|---|
| 41K25A-D | 25 | 1 ϕ 220 | 50 | 2 | 2800 | 1.1 | 0.85 | 0.25 | 2.5/450 | 連 續 Continuous |
| 51K40A-D | 40 | 1 ϕ 220 | 50 | 2 | 2800 | 1.5 | 1.39 | 0.28 | 3.0/450 | 連 續 Continuous |
| 51K60A-DF | 60 | 1 ϕ 220 | 50 | 2 | 2800 | 1.9 | 2.1 | 0.49 | 4.0/450 | 連 續 Continuous |
| 51K90A-DF | 90 | 1 ϕ 220 | 50 | 2 | 2800 | 4.2 | 2.95 | 0.94 | 8.0/450 | 連 續 Continuous |
| 51K90A-EF | 90 | 3 ϕ 220/380 | 50 | 2 | 2800 | 10.8 | 3.13 | 0.28 | — | 連 續 Continuous |
| 51K120A-DF | 120 | 1 ϕ 220 | 50 | 2 | 2800 | 4.0 | 3.13 | 0.82 | 8.0/450 | 連 續 Continuous |

### 特殊配件 Special accessories
### 馬達安裝用L型腳座 L shape foot seat installed for motor

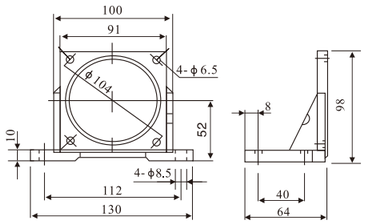
PAL-3N（□70mm用）
PAL-3N（For□70mm）



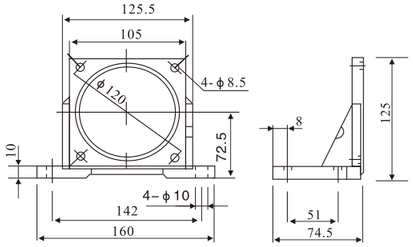

PAL-4N（□80mm用）
PAL-4N（For□80mm）




PAL-5N（□90mm用）
PAL-5N（For□90mm）




PAL-6N（□104mm用）
PAL-6N（For□104mm）




## 延長綫
Prolonging line

使用于速度馬達和控制器之間的延長綫
Prolonging line used between speed motor and controller

爲額外銷售品
Additional sale product

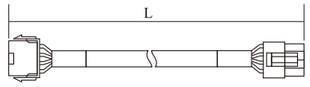
買控制器時，附有0.5m的延長綫.如需要加延長時，請額外購買。
When buying the controller, there will be prolonging linewith 0.5 m. If it needs to be prolonged, please buy it additionally.

延長綫的長度和產品名稱，請參照顧下圖。
The length of prolonging line and the name of the product, please refer to the following figure

### 產品名稱
The name of the product

| 產品名稱 The name of the product | L（延長綫長度） L (the length of the prolonging line) |
|---|---|
| MC-01 | 1.0m |
| MC-02 | 2.0m |
| MC-03 | 3.0m |

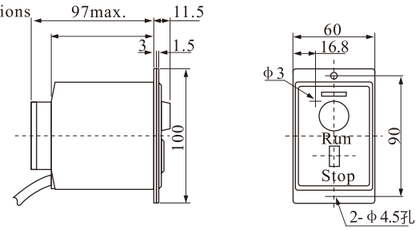
DIMENSION 单位：m Unit：m



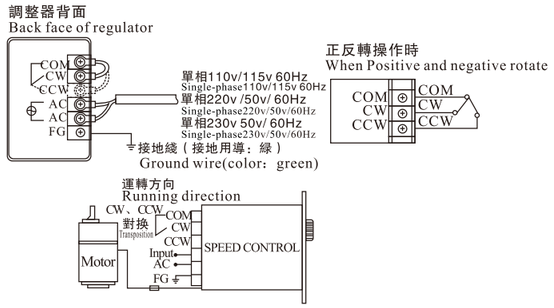

# 速度控制器外型安裝尺寸 Speed controlld Appearance installment size

## US-52 速度控制器
**US -52 Speed controller**


尺寸圖 Dimensions

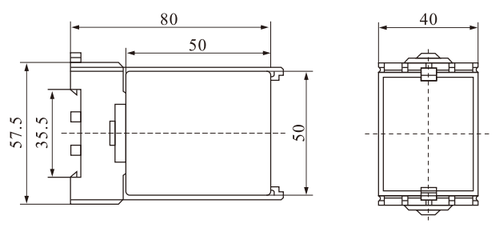



### 控制器接綫圖
Connection diarams of the controller

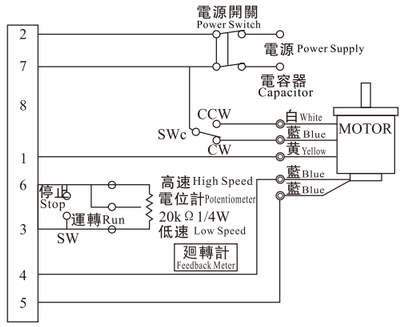



## SS-22 速度控制器
**SS-22 Speed controller**


尺寸圖 Dimensions




### 控制器接綫圖
Connection diarams of the controllerbb



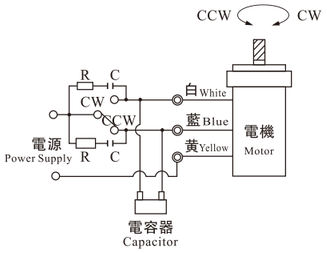

注：以上“接綫圖”僅供參考
Note:“Connection diarams” is for reference only.



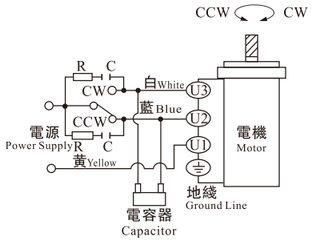
# Speed controller and motor wiring diagram 速度控制器與馬達接綫示意圖

## 接綫方式
Wiring method

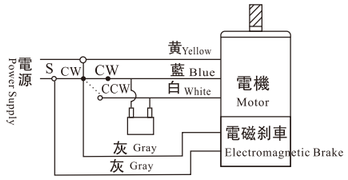
### 單相電機接綫圖
Single-phase motor wiring diagram



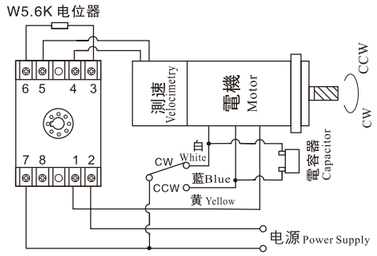

### 單相配端子箱電機接綫圖
Single-phase motor with terminal box wiring diagram



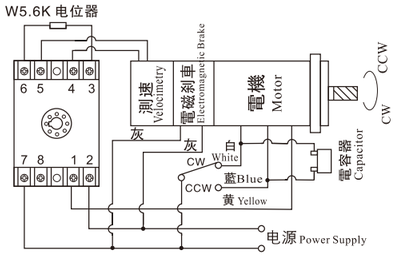

### 單相剎車馬達接綫圖
Single-phase brake motor wiring diagram



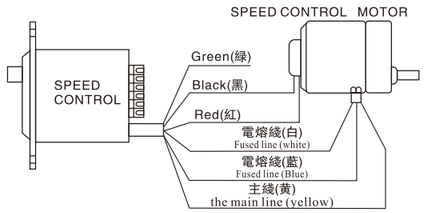

### 調速電機配SS速度控制器
Speed regulating motor with SS speed controller



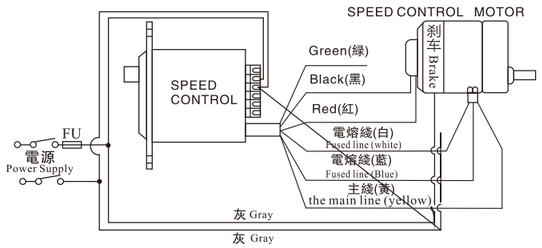

### 剎車帶調速電機配SS速度控制器
Brake band speed regulating motor with SS speed controller



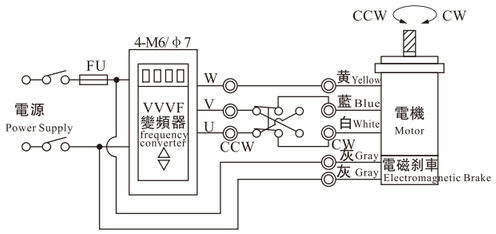

### 調速電機配US速度控制器
Speed regulating motor with US speed controller



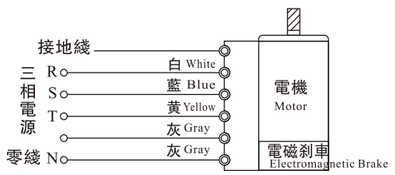

### 剎車帶調速電機配US速度控制器
Brake band speed regulating motor with US speed controller




### 三相剎車電機配變頻器
Three-phase brake motor with frequency converter




### 三相剎車馬達接綫圖
Three-phase brake motor wiring diagram




圖中R、C爲阻容吸收回路，確保電機及相關控制部件可靠工作

The R and C circuit is resistance-capacitance absorption circuit,which ensures the reliable operation of the motor and relative control components.

(R=5~330Ω C=0.1~0.22 F 250VAC(450VAC)

# 交流馬達、齒輪型號之選定 Micro and special electromotor

CH 18 - 400 - 30 SZ B G1 LB

**機型代號 Model code**
CH:卧式
CH: horizontal
CV:立式
CV: vertical

**出力軸直徑 Output shaft dia**
18
22
28
32
40
50

**馬力 Horsepower**
100W
200W
400W
550W
750W
1100W
1500W
2200W
3700W

**減速比 Speed reducing ration**
1:3...1:200

**電壓極速 Top speed of voltage**
A=1ϕ110V4P
C=1ϕ220V4P
S=3ϕ220V4P
U=3ϕ380V4P
W=3ϕ440V4P
Y=3ϕ220~240/380~440V4P
Z= 縮框型減速電機 light tpye duty

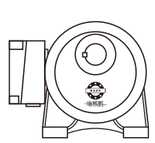
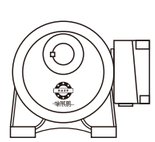
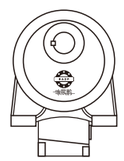
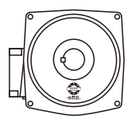
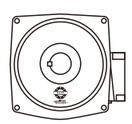
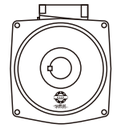
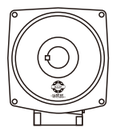
**附件 Accessory**
B : DC90V安全剎車器 BRAKE UNIT
YB : 手釋放剎車器 WITH RELEASE BAKE UNIT
D : DC24V送電剎車器 DC24V BRAKE

**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

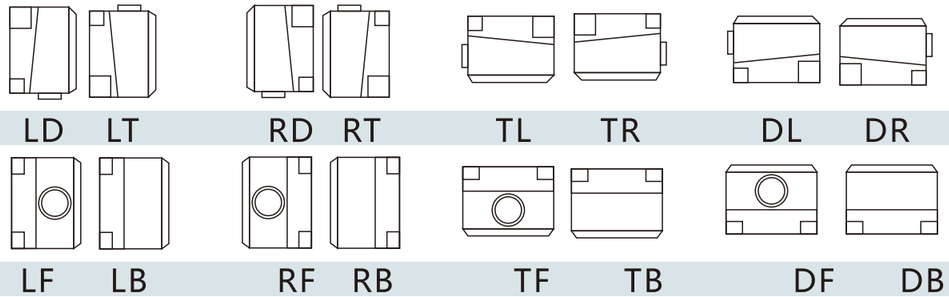
**入綫口方向 WIRE INLET**
T: 向上 TOP
D: 向下 DOWN
F: 向前 FORWARD
B: 向後 BACK
L: 向左 LEFT
R: 向右 RIGHT



## 配綫盒方向選定 (TERMINAL BOX DIRECTION)

| TYPE | G1–左方向 LEFT SIDE | G2–右方向 RIGHT SIDE | G3–上方向 UPPER SIDE | G4–下方向 LOWER SIDE |
|---|---|---|---|---|
| CH型 CH TYPE |  |  |  |  |
| | G1 | G2 | G3 | G4 |
| CV型 CV TYPE |  |  |  |  |
| | G1 | G2 | G3 | G4 |

## 入綫口方向 (WIRE INLET DIRECTION)




## 減速機與透氣塞安裝位置示意圖 (REDUCER AND VENTLATION INSTALLATION)

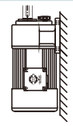
CH機型安裝範例 CHINSTALLATION EXAMPLES


HO標準STANDARD(CPG正立CPG STAND )


H3(左側LETF SIDE )


H6(倒裝INVERT )


H9(右側RIGHT SIDE )


HU(軸向上SHAFT UP )


HD(軸向下SHAFT DOWN )

CH機型安裝範例 CHINSTALLATION EXAMPLES


VO標準STANDARD(CPG正立CPG STAND )


V3(CPG順轉90° CPG CLOCKWISE90° )


V6(CPG順轉180° CPG CLOCKWISE 180° )


V9(CPG逆轉90° CPG LEFT TURN90° )


VU(軸向上SHAFT UP )


VD(軸向下SHAFT DOWN )

# 0.1KW

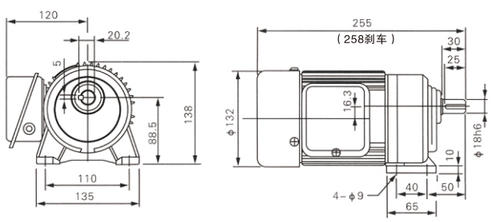
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

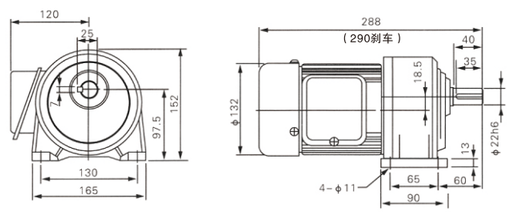
### 馬達尺寸圖 Dimensions chart

單位：mm

**標準型 CH-18-100-3~60**
Mormal Duty Type CH-18-100-3~60
輕負載縮框型 CH-18-100-70~200
Light load miniature frame CH-18-100-70~200




**標準型 CH-22-100-60~200**
Mormal Duty Type CH-22-100-60~200

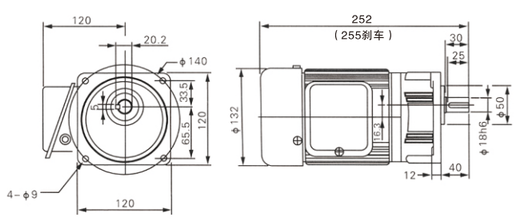



## CV 型立式三相鋁殼（剎車）馬達減速機

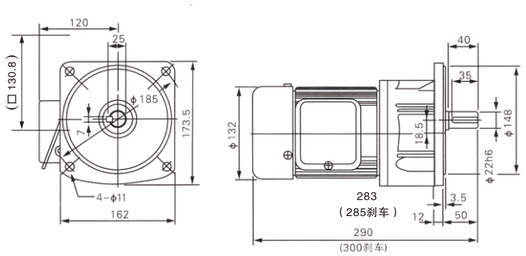
CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

### 馬達尺寸圖 Dimensions chart

**標準型CV-18-100-3~60**
Mormal Duty Type CV-18-100-3~60
輕負載縮框型 CH-18-100-70~200
Light load miniature frame CH-18-100-70~200




**標準型 CV-22-100-60~200**
Mormal Duty Type CV-22-100-60~200








# 0.2KW

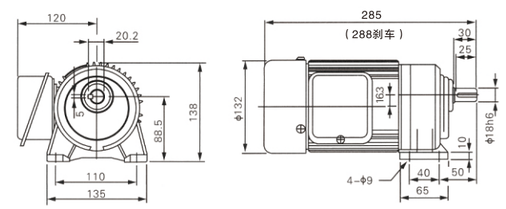
單位：mm

### 馬達尺寸圖 Dimensions chart

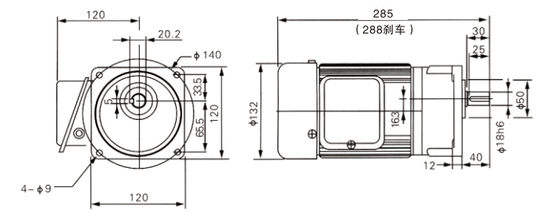
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

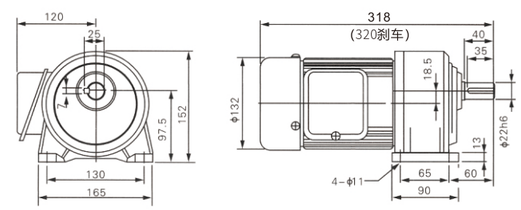
**標準型 CH-18-200-3~10**
Mormal Duty Type CH-18-200-3~10
輕負載縮框型 CH-18-200-15~90
Light load miniature frame CH-18-200-15~90



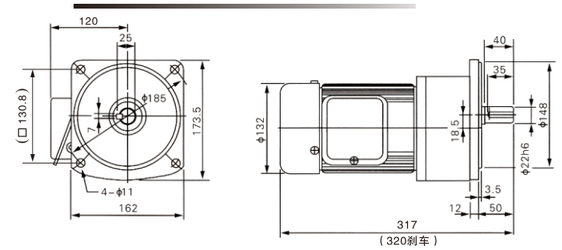

**標準型 CV-18-200-3~10**
Mormal Duty Type CV-18-200-3~10
輕負載縮框型 CH-18-200-15~90
Light load miniature frame CH-18-200-15~90



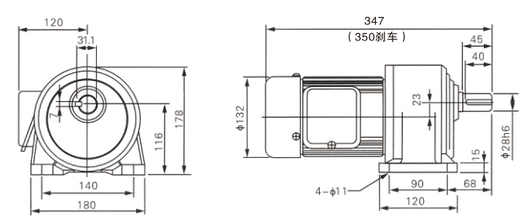

**標準型CH-22-200-15~90**
Mormal Duty Type CH-22-200-15~90
輕負載縮框型 CH-22-200-100~200
Light load miniature frame CH-22-200-100~200



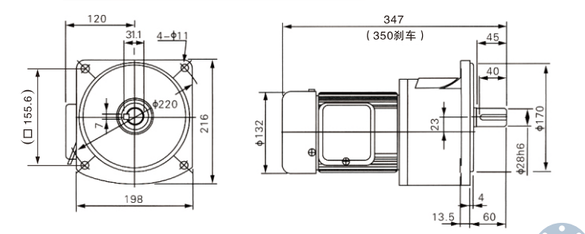

**標準型 CV-22-200-15~90**
Mormal Duty Type CV-22-200-15~90
輕負載縮框型 CV-22-200-100~200
Light load miniature frame CV-22-200-100~200




**標準型 CH-28-200-100~200**
Mormal Duty Type CH-28-200-100~200




**標準型CV-28-200-100~200**
Mormal Duty Type CV-28-200-100~200



# 0.4KW

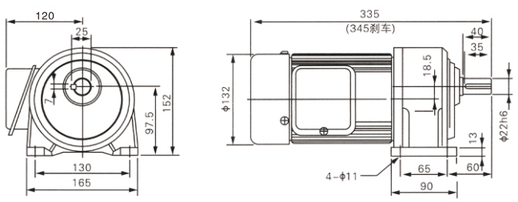
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

### 馬達尺寸圖 Dimensions chart

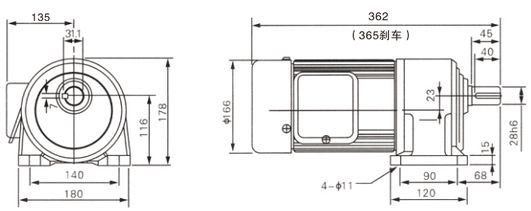
單位：mm

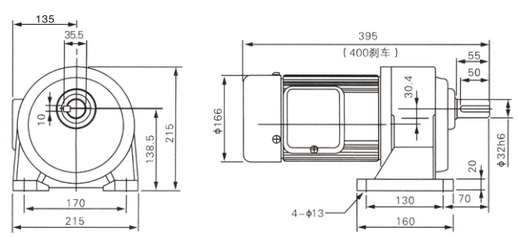
**標準型 CH-22-400-3~10**
Mormal Duty Type CH-22-400-3~10
輕負載縮框型 CH-22-400-15~90
Light load miniature frame CH-22-400-15~90




**標準型 CH-28-400-15~90**
Mormal Duty Type CH-28-400-15~90
輕負載縮框型 CH-28-400-100~200
Light load miniature frame CH-28-400-100~200

**標準型 CH-32-400-100~200**
Mormal Duty Type CH-32-400-100~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用

Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.





# 0.4KW

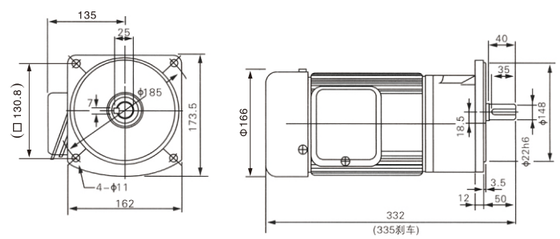
## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

### 馬達尺寸圖 Dimensions chart

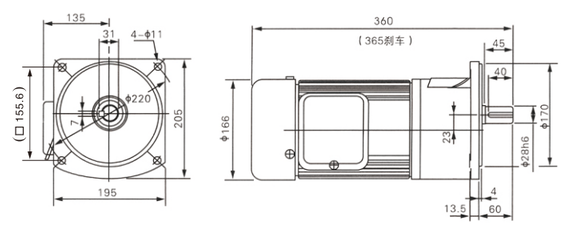
單位：mm

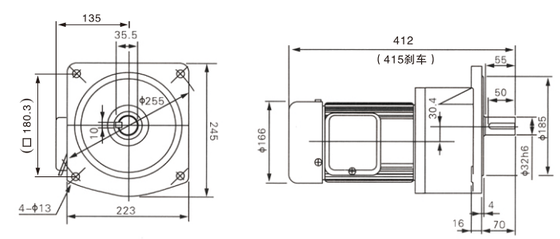
**標準型 CV-22-400-3~10**
Mormal Duty Type CV-22-400-3~10
輕負載縮框型 CV-22-400-15~90
Light load miniature frame CV-22-400-15~90




**標準型 CV-28-400-15~90**
Mormal Duty Type CV-28-400-15~90
輕負載縮框型 CV-28-400-100~200
Light load miniature frame CV-28-400-100~200

**標準型 CV-32-400-100~200**
Mormal Duty Type CV-32-400-100~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用

Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

# 0.55KW

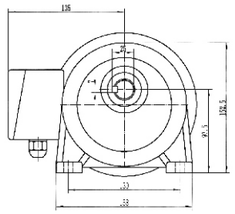
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

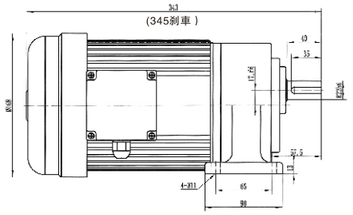
### 馬達尺寸圖 Dimensions chart

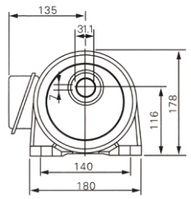
單位：mm

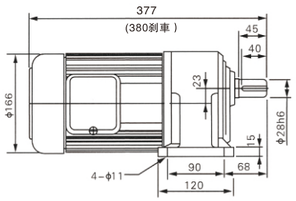
**輕負載縮框型 CH-22-550-3~25**
Light load miniature frame CH-22-550-3~25



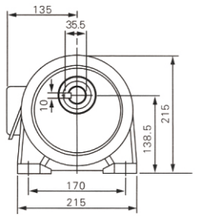
**標準型 CH-28-550-3~25**
Mormal Duty Type CH-28-550-3~25
輕負載縮框型 CH-28-550-30~120
Light load miniature frame CH-28-550-30~120

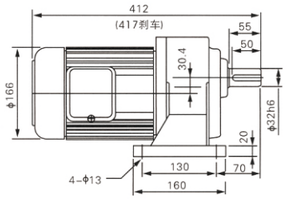



**標準型 CH-32-550-30~120**
Mormal Duty Type CH-32-550-30~120
輕負載縮框型 CH-32-550-130~200
Light load miniature frame CH-32-550-130~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.





# 0.55KW

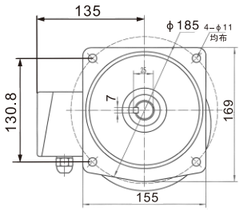
## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

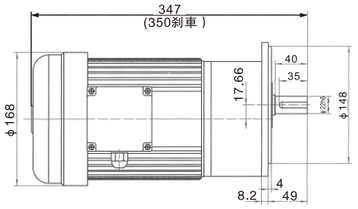
### 馬達尺寸圖 Dimensions chart

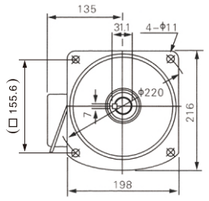
單位：mm

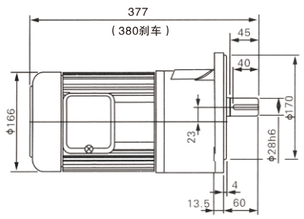
**輕負載縮框型 CV-22-550-3~25**
Light load miniature frame CV-22-550-3~25



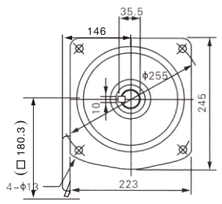

**標準型 CV-28-550-3~25**
Mormal Duty Type CV-28-550-3~25
輕負載縮框型 CV-28-550-30~120
Light load miniature frame CV-28-550-30~120

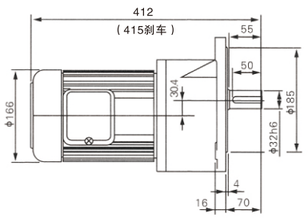



**標準型 CV-32-550-30~120**
Mormal Duty Type CV-32-550-30~120
輕負載縮框型 CV-32-550-130~200
Light load miniature frame CV-32-550-130~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

# 0.75KW

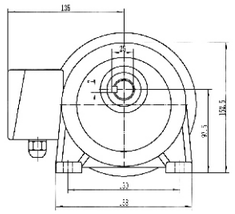
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

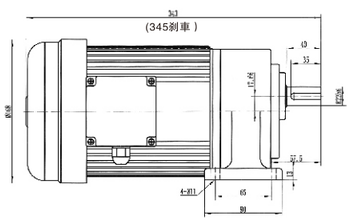
### 馬達尺寸圖 Dimensions chart

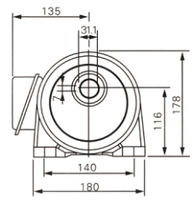
單位：mm

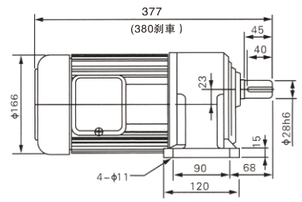
**輕負載縮框型 CH-22-750-3~25**
Light load miniature frame CH-22-750-3~25



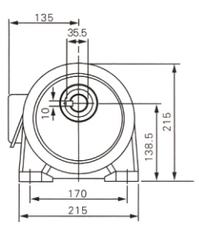
**標準型 CH-28-750-3~25**
輕負載縮框型 CH-28-750-30~120
Light load miniature frame CH-28-750-30~120

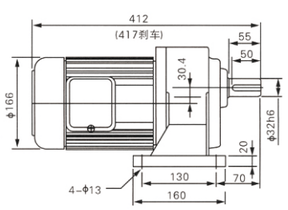


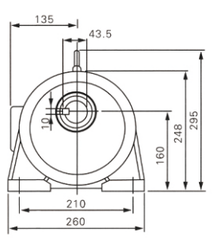


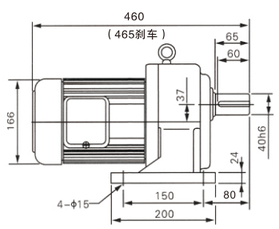

**標準型CH-32-750-30~120**
Mormal Duty Type CH-32-750-30~120
輕負載縮框型 CH-32-750-130~200
Light load miniature frame CH-32-750-130~200






**標準型 CH-40-750-130~200**
Mormal Duty Type CH-40-750-130~200






注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.





# 0.75KW

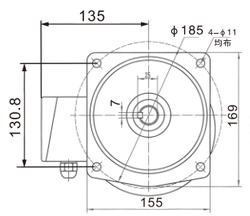
## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

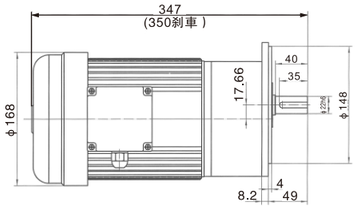
### 馬達尺寸圖 Dimensions chart

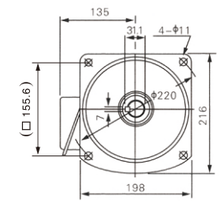
單位：mm

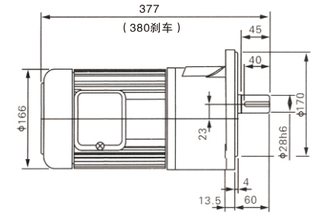
**輕負載縮框型 CV-22-750-3~25**
Light load miniature frame CV-22-750-3~25



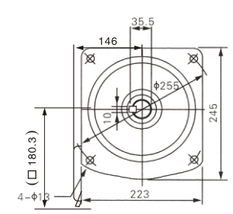

**標準型CV-28-750-3~25**
Mormal Duty Type CV-28-750-3~25
輕負載縮框型 CV-28-750-30~120
Light load miniature frame CV-28-750-30~120

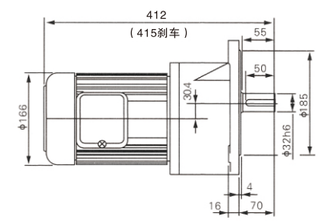


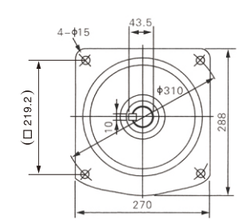



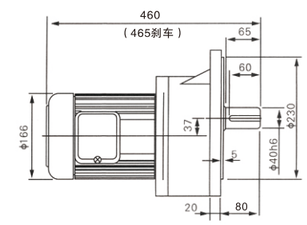

**標準型 CV-32-750-30~120**
Mormal Duty Type CV-32-750-30~120
輕負載縮框型 CV-32-750-130~200
Light load miniature frame CV-32-750-130~200




**標準型 CV-40-750-100~200**
Mormal Duty Type CV-40-750-100~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用
Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

# 1.1 KW

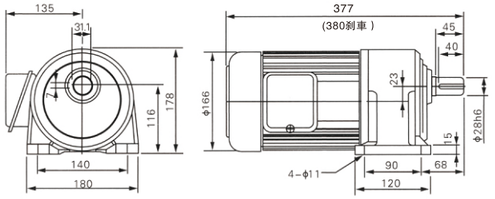
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

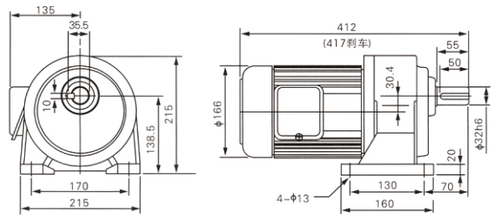
### 馬達尺寸圖 Dimensions chart

單位：mm

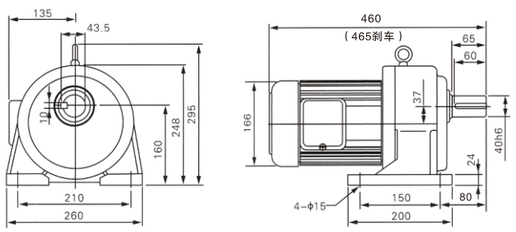
**標準型 CH-28-1100-3~25**
Mormal Duty Type CH-28-1100-3~25
輕負載縮框型 CH-28-1100-30~100
Light load miniature frame CH-28-1100-30~100




**標準型 CH-32-1100-30~50**
Mormal Duty Type CH-32-1100-30~50
輕負載縮框型 CH-32-1100-60~160
Light load miniature frame CH-32-1100-60~160




**標準型 CH-40-1100-130~200**
Mormal Duty Type CH-40-1100-130~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用

Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.





# 1.1 KW

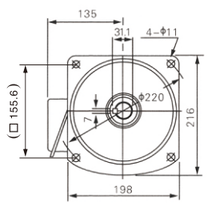
## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

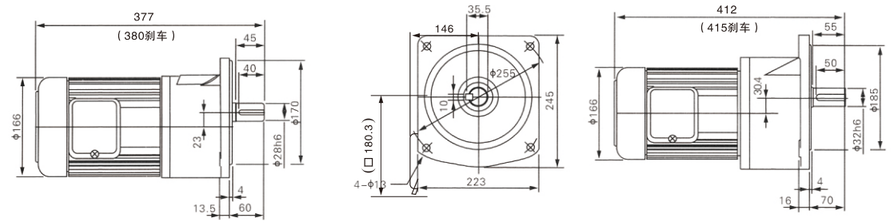
### 馬達尺寸圖 Dimensions chart

單位：mm

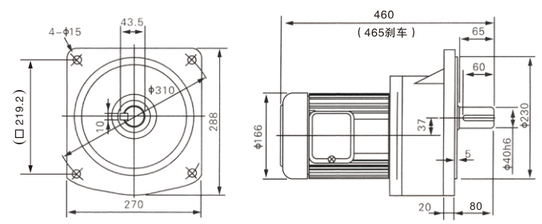
**標準型 CV-28-1100-3~25**
Mormal Duty Type CV-28-1100-3~25
輕負載縮框型 CV-28-1100-30~100
Light load miniature frame CV-28-1100-30~100




**標準型 CV-32-1100-30~50**
Mormal Duty Type CV-32-1100-30~50
輕負載縮框型 CV-32-1100-60~160
Light load miniature frame CV-32-1100-60~160




**標準型 CV-40-1100-130~200**
Mormal Duty Type CV-40-1100-130~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用

Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

# 1.5KW

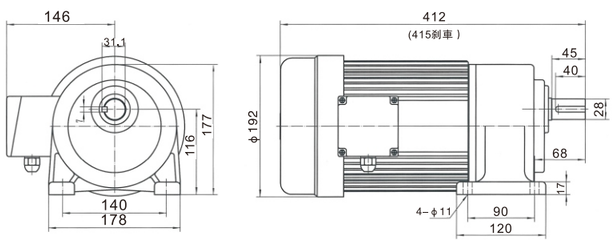
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

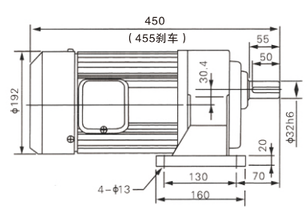
### 馬達尺寸圖 Dimensions chart

單位：mm

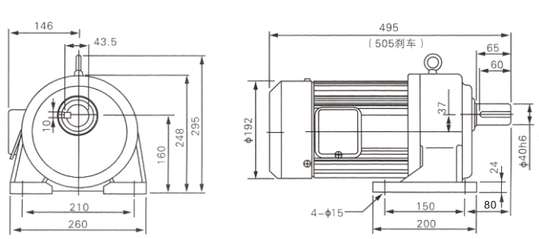
輕負載縮框型 **CH–28–1500–3~25**
Light load miniature frame CH–28–1500–3~25



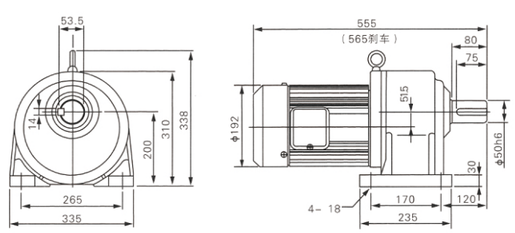

**標準型 CH–32–1500–3~30**
Mormal Duty Type CH-32-1500-3~30
輕負載縮框型 CH–32–1500–40~90
Light load miniature frame CH-32-1500-40~90




**標準型 CH–40–1500–35~100**
Mormal Duty Type CH-40-1500-35~100
輕負載縮框型 CH–40–1500–110~200
Light load miniature frame CH-40-1500-110~200




**標準型 CH–50–1500–110~200**
Mormal Duty Type CH-50-1500-110~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用

Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.





# 1.5KW

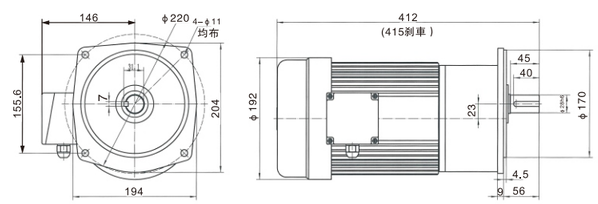
## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

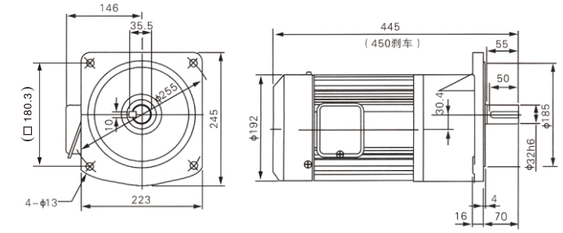
### 馬達尺寸圖 Dimensions chart

單位：mm

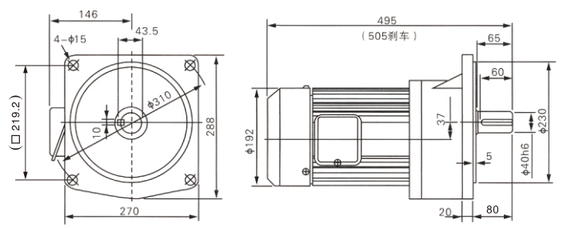
輕負載縮框型 **CV–28–1500–3~25**
Light load miniature frame CV–28–1500–3~25



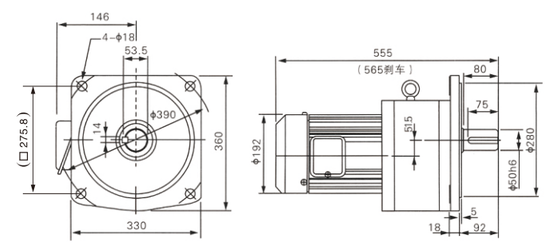

**標準型 CV–32–1500–3~30**
Mormal Duty Type CV-32-1500-3~30
輕負載縮框型 CV–32–1500–40~100
Light load miniature frame CV-32-1500-40~100




**標準型CV–40–1500–35~100**
Mormal Duty Type CV-40-1500-35~100
輕負載縮框型 CV–40–1500–110~200
Light load miniature frame CV-40-1500-110~200




**標準型 CV–50–1500–110~200**
Mormal Duty Type CV-50-1500-110~200




注：縮框型爲輕負載，無大慣性場合中使用。爲不正當設計，如非必要請勿使用

Note: miniature frame is light load, without being used in big inertia condition. This improper design is not allowed to use unless necessary.

# 2.2KW

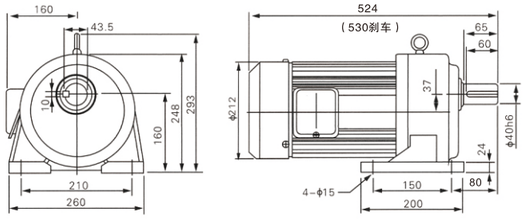
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

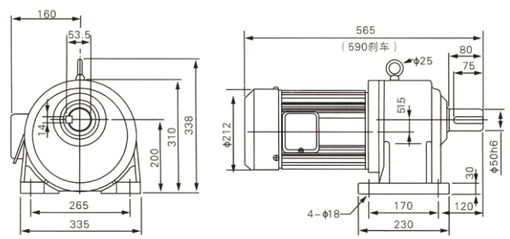
### 馬達尺寸圖 Dimensions chart

單位：mm

**標準型CH-40-2200-3~40**
Mormal Duty Type CH-40-2200-3~40
輕負載縮框型 CH-40-2200-50~80
Light load miniature frame CH-40-2200-50~80




**標準型 CH-50-2200-50~100**
Mormal Duty Type CH-50-2200-50~100
輕負載縮框型 CH-50-2200-100~200
Light load miniature frame CH-50-2200-100~200



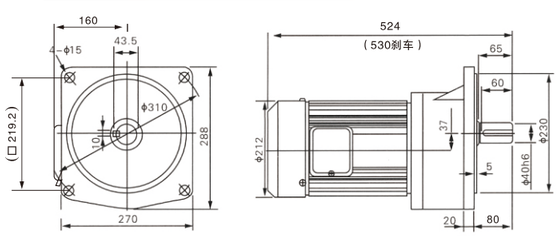

## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

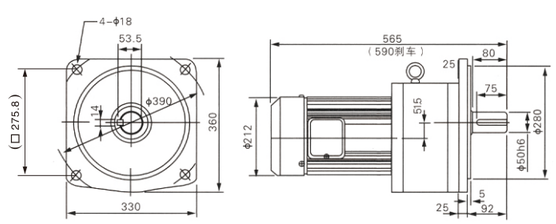
### 馬達尺寸圖 Dimensions chart

單位：mm

**標準型CV-40-2200-3~40**
Mormal Duty Type CV-40-2200-3~40
輕負載縮框型 CV-40-2200-50~80
Light load miniature frame CV-40-2200-50~80




**標準型 CV-50-2200-50~100**
Mormal Duty Type CV-50-2200-50~100
輕負載縮框型 CV-50-2200-110~200
Light load miniature frame CV-50-2200-110~200








# 3.7KW

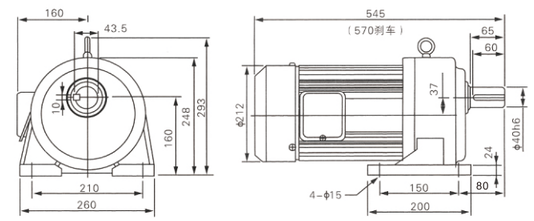
## CH 型卧式三相鋁殼（剎車）馬達減速機

CH HORIZINTAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

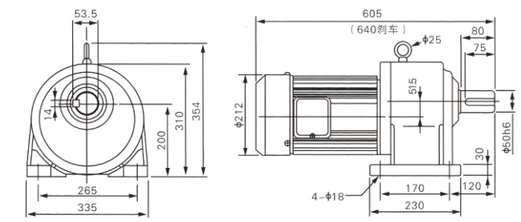
### 馬達尺寸圖 Dimensions chart

單位：mm

**標準型 CH-40-3700-3~10**
Mormal Duty Type CH-40-3700-3~10
輕負載縮框型 CH-40-15~60
Light load miniature frame CH-40-15~60




**標準型 CH-50-3700-15~60**
Mormal Duty Type CH-50-3700-15~60
輕負載縮框型 CH-50-3700-70~200
Light load miniature frame CH-50-3700-70~200



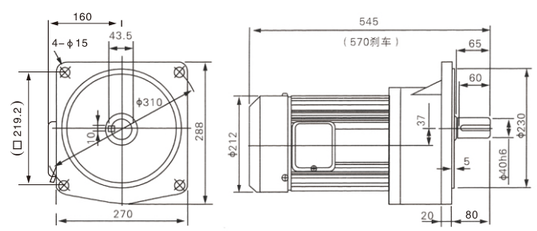

## CV 型立式三相鋁殼（剎車）馬達減速機

CV RTICAL TYPE WITH ALUMINON PLATE 3PHASE(BRAKE)GEAR MOTOR

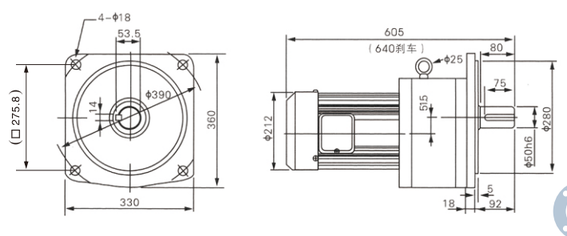
### 馬達尺寸圖 Dimensions chart

單位：mm

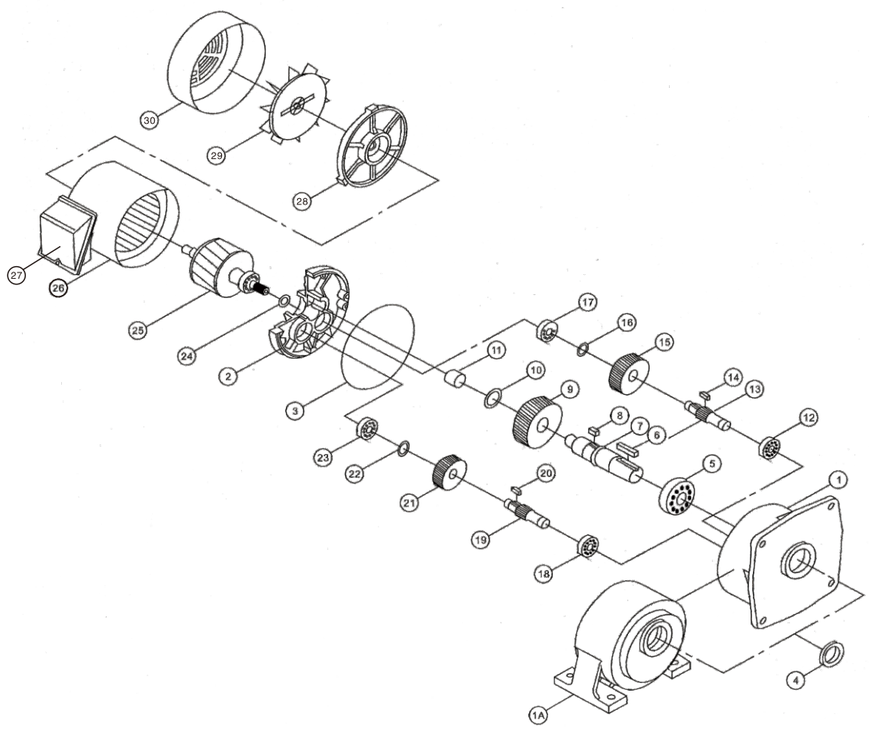
**標準型 CV-40-3700-3~10**
Mormal Duty Type CV-40-3700-3~10
輕負載縮框型 CV-50-3700-15~60
Light load miniature frame CV-50-3700-15~60




**標準型 CV-50-3700-15~60**
Mormal Duty Type CV-50-3700-15~60
輕負載縮框型 CV-50-3700-70~200
Light load miniature frame CV-50-3700-70~200



## 產品結構圖 Product Structure Drawing



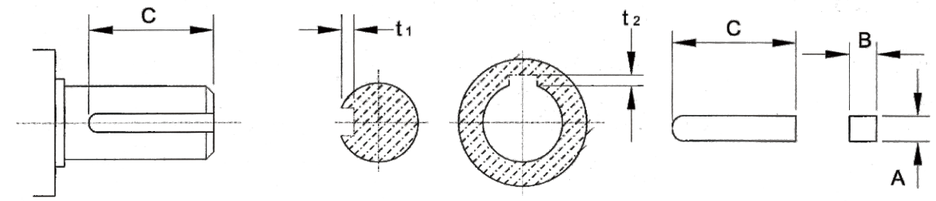

| 序號 Item | 品名 denomination |
|---|---|
| 1 | 本體 housing |
| 2 | 本體蓋housing cover |
| 3 | O型環 o–ring |
| 4 | 出力軸油封 oil seal |
| 5 | 培林 ball bearing |
| 6 | 鍵 key |
| 7 | 出力軸 out put shaft |
| 8 | 鍵 key |
| 9 | 三段大齒輪 3rd main gear |
| 10 | 扣環 snap ring |

| 序號 Item | 品名 denomination |
|---|---|
| 11 | 培林 ball bearing |
| 12 | 培林 ball bearing |
| 13 | 三段大齒輪 3rd main gear |
| 14 | 鍵 key |
| 15 | 二段大齒輪 2rd main gear |
| 16 | 扣環 snap ring |
| 17 | 培林 ball bearing |
| 18 | 培林 ball bearing |
| 19 | 二段大齒輪 2rd main gear |
| 20 | 鍵 key |

| 序號 Item | 品名 denomination |
|---|---|
| 21 | 一段大齒輪 1rd main gear |
| 22 | 扣環 snap ring |
| 23 | 培林 ball bearing |
| 24 | 入力軸油封 oil seal |
| 25 | 馬達軸及轉子 motor shaft |
| 26 | 綫圈總成 coil assembly |
| 27 | 接綫盒 wlre box |
| 28 | 馬達後蓋 Rear cover motr |
| 29 | 風扇 Fan |
| 30 | 風罩 Fan cover |



## 鍵/鍵槽加工尺寸 (KEY/KEY WAY DIMENSION)




| 軸徑 SHAFT DIA | 鍵 KEY | | 鍵槽 KEYWAY | | | |
|---|---|---|---|---|---|---|
| | 新JIS規範 NEW JIS SPEC | 舊JIS規範 OLD JIS SPEC | 新JIS規範 NEW JIS SPEC (SHAFT/HOLE) | | 舊JIS規範 OLD JIS SPEC (SHAFT/HOLE) | |
| S | AxBxC | AxBxC | t1 | t2 | t1 | t2 |
| ∮11.0 | 4x4xC | 4x4xC | $2.5^{+0}_{+0.1}$ | $1.8^{+0}_{+0.1}$ | $2.5^{+0}_{+0.1}$ | $2.0^{+0}_{+0.1}$ |
| ∮14.0 | 5x5xC | 5x5xC | $3.0^{+0}_{+0.1}$ | $2.3^{+0}_{+0.1}$ | $3.0^{+0}_{+0.1}$ | $2.5^{+0}_{+0.1}$ |
| ∮18.0 | 6x6xC | 6x6xC | $3.5^{+0}_{+0.1}$ | $2.8^{+0}_{+0.1}$ | $3.5^{+0}_{+0.1}$ | $3.0^{+0}_{+0.1}$ |
| ∮19.0 | 6x6xC | 6x6xC | $3.5^{+0}_{+0.1}$ | $2.8^{+0}_{+0.1}$ | $3.5^{+0}_{+0.1}$ | $3.0^{+0}_{+0.1}$ |
| ∮22.0 | 8x7xC | 7x7xC | $4.0^{+0}_{+0.1}$ | $3.3^{+0}_{+0.1}$ | $4.0^{+0}_{+0.1}$ | $3.5^{+0}_{+0.1}$ |
| ∮24.0 | 8x7xC | 8x7xC | $4.0^{+0}_{+0.2}$ | $3.3^{+0}_{+0.2}$ | $4.0^{+0}_{+0.2}$ | $3.5^{+0}_{+0.2}$ |
| ∮28.0 | 8x7xC | 8x7xC | $4.0^{+0}_{+0.2}$ | $3.3^{+0}_{+0.2}$ | $4.0^{+0}_{+0.2}$ | $3.5^{+0}_{+0.2}$ |
| ∮32.0 | 10x8xC | 10x8xC | $5.0^{+0}_{+0.2}$ | $3.3^{+0}_{+0.2}$ | $4.5^{+0}_{+0.2}$ | $4.0^{+0}_{+0.2}$ |
| ∮40.0 | 12x8xC | 12x8xC | $5.0^{+0}_{+0.2}$ | $3.3^{+0}_{+0.2}$ | $4.5^{+0}_{+0.2}$ | $4.0^{+0}_{+0.2}$ |
| ∮45.0 | 14x9xC | 12x8xC | $5.5^{+0}_{+0.2}$ | $3.8^{+0}_{+0.2}$ | $4.5^{+0}_{+0.2}$ | $4.0^{+0}_{+0.2}$ |
| ∮50.0 | 14x9xC | 15x10xC | $5.5^{+0}_{+0.2}$ | $3.8^{+0}_{+0.2}$ | $5.0^{+0}_{+0.2}$ | $5.0^{+0}_{+0.2}$ |
| ∮55.0 | 16x10xC | 15x10xC | $6.0^{+0}_{+0.2}$ | $4.3^{+0}_{+0.2}$ | $5.0^{+0}_{+0.2}$ | $5.5^{+0}_{+0.2}$ |
| ∮65.0 | 18x11xC | 18x12xC | $7.0^{+0}_{+0.2}$ | $4.4^{+0}_{+0.2}$ | $6.0^{+0}_{+0.2}$ | $6.5^{+0}_{+0.2}$ |
| ∮75.0 | 20x12xC | 20x13xC | $7.5^{+0}_{+0.2}$ | $4.9^{+0}_{+0.2}$ | $7.0^{+0}_{+0.2}$ | $6.5^{+0}_{+0.2}$ |
| ∮90.0 | 25x14xC | 24x16xC | $9.0^{+0}_{+0.2}$ | $5.4^{+0}_{+0.2}$ | $8.0^{+0}_{+0.2}$ | $8.5^{+0}_{+0.2}$ |
| ∮100.0 | 28x16xC | 28x18xC | $10.0^{+0}_{+0.2}$ | $6.4^{+0}_{+0.2}$ | $9.0^{+0}_{+0.2}$ | $10.0^{+0}_{+0.2}$ |
| ∮115.0 | 28x16xC | 28x18xC | $10.0^{+0}_{+0.2}$ | $6.4^{+0}_{+0.2}$ | $9.0^{+0}_{+0.2}$ | $10.0^{+0}_{+0.2}$ |

## 相關計算 CALCULATE DATA

### (A)連結系數表(CONNECTION FACTOR)

| | |
|---|---|
| 鏈輪 SPROCKET | 1.00 |
| 齒輪 GEAR | 1.25 |
| 三角皮帶BELT | 1.50 |
| 平皮帶FLAT BELT | 2.50 |

### (B)荷重系數表(SERVICE FACTOR)

| 減速機負載等級 LOAD GRADE | 每日運轉時間(HRS) DAILY OPERATING HOURS | | | |
|---|---|---|---|---|
| | 1–2 | 3–8 | 9–15 | 16–24 |
| 均一負載 UNIFORM LOAD | 0.80 | 0.90 | 1.20 | 1.30 |
| 中級重擊負載 MEDIUM IMPACT LOAD | 1.00 | 1.20 | 1.30 | 1.50 |
| 重級重擊負載 HEAVY IMPACT LOAD | 1.20 | 1.50 | 1.75 | 2.00 |

(C)符號說明(CODE DETAILS)

| | | |
|---|---|---|
| V=速度SPEED (M/MIN) | E=效率EFFICENCY (%) | 1 INCH=2.54cm |
| I=減速比 RATIO | N2=出力軸轉速(RPM)<br>OUTPUT SHAFT SPEED | 1 FOOT=12 INCH |
| T=輸出扭力(KG-M)<br>OUTPUT TORQUE | D=滾輪直徑(mm)<br>ROLLER DIAMETER | 1KW=1000W<br>1KW=1.34HP |
| K=連結系數<br>CONNECTING FACTOR | R=滾輪半徑(mm)<br>ROLLER RADIUS | 1KG-M=7.233 FT-LB<br>1KG-M=86.8 IN-LB |
| F=荷重系數<br>SERVICE FACTOR | KW1(HP1)=入力馬力<br>INPUT CAPACITY | 1KG=2.2 LB<br>1 LB=0.4536KG |
| W=荷重(KG)<br>LOAD | KW2(HP2)=輸出馬力<br>OUTPUT CAPACITY | N1=入力回轉速（r/min)<br>INPUT SHAFT ROTATION SPEED |

(D)基本傳動公式(BASIC FORMULAR)

| | |
|---|---|
| 減速比 RATIO | I=N2/N1 |
| 回轉速度 ROTATION SPEED(r/min) | N2=V/πD |
| 輸出扭矩 OUTPUT TORQUE (KG-M) | T=WxRxK |
| 輸入馬力 INPUT HORSEPOWER(公制 METRIC) | KW1=NxTx974 |
| 輸入馬力 INPUT HORSEPOWER(英制 INCH) | HP1=NxT/716 |
| 輸出馬力 OUTPUT HORSEPOWER(公制 METRIC) | KW2=KW1xF/E |
| 輸出馬力 OUTPUT HORSEPOWER(英制 INCH) | HP2=HP1xF/E |

(E)減速機水平輸送場合符號說明及傳動公式(DESCRIPTION AND TRANSMISSION)

| | | | |
|---|---|---|---|
| 輸送速度(r/min)<br>TRANSMISSION SPEED | V | 輸送帶摩擦系數<br>BELT FRICTION COEFFICIENT | μ |
| 滾輪直徑(mm)<br>ROLLER DIAMETER | D | 鏈輪傳動效率（%）<br>CHAIN DRIVE EFFICIENCY | η1 |
| 載重量(KG)<br>LOAD | W | 減速機傳動效率（%）<br>REDUCER TRANSMISSION | η2=0.9 |
| 出力軸主動鏈輪齒數<br>OUTPUT SHAFT TEETH | T1 | 輸送機被動鏈齒輪數<br>CONVEYOR PASSIVE SPROCKET TEETH | T2 |
| 輸送帶所需扭力(KG-M)<br>BELTTORQUE | T1 | 減速機減速比<br>REDUCER RATIO | I |
| 減速機扭力(KG-M)<br>REDUCER TORQUE | T2 | 減速機出力軸回轉速（r/min)<br>REDUCER OUTPUT SHAFT ROTATION SPEED | N2 |
| 荷重系數<br>SERVICE FACTOR | F（查4-13表（B））<br>F（FIND 4-13 TABLE(B)) | | |

| | |
|---|---|
| 輸送機回轉速(r/min)<br>TRANSMISSION SPEED | N1=V/πD |
| 減速機出力軸回轉速（r/min)<br>REDUCER OUTPUT SHAFT ROTATION SPEED | N2=N2X(T2/T1) |
| 減速機減速比（1）<br>REDUCER RATIO | 50HZ I=1500/N2<br>60HZ I=1800/N2 |
| 輸送帶所需扭力(KG-M)<br>BELTTORQUE | T1=WXD/2Xμ/η1 |
| 減速機所需扭力(KG-M)<br>REDUCER TORQUE | T2=t1X(t1/t2)/η2 |
| 考慮荷重系數減速馬達扭力<br>GEAR MOTOR TORQUE(SERVICE FACTOR BE CONSIDER) | T3=t3xF |
| 馬力(HP)<br>CAPACITY | HP=t3xN2/716.2 |



## 4-2 輸出扭矩表 OUTPUT TORQUE

標準型（NORMAL DUTY TYPE）

KG-M

| 減速比 RATIO | 輸出轉速 OUTPUT R.P.M | | 輸出扭矩 OUTPUT TORQUE | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1/8HP 0.1KW | | 1/4HP 0.2KW | | 1/2HP 0.4KW | | 3/4HP 0.55KW | | 1HP 0.75KW | | 3/2HP 1.1KW | | 2HP 1.5KW | | 3HP 2.2KW | | 5HP 3.7KW | |
| | HZ | | | | | | | | | | | | | | | | | | | |
| | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 |
| 3 | 500 | 600 | 0.19 | 0.16 | 0.37 | 0.31 | 0.70 | 0.60 | 0.96 | 0.83 | 1.30 | 1.10 | 1.91 | 1.61 | 2.60 | 2.20 | 3.80 | 3.20 | 6.00 | 5.50 |
| 5 | 300 | 360 | 0.31 | 0.26 | 0.62 | 0.52 | 1.20 | 1.00 | 1.65 | 1.38 | 2.20 | 1.90 | 3.22 | 2.78 | 4.50 | 3.80 | 6.72 | 5.60 | 11.0 | 10.0 |
| 10 | 150 | 180 | 0.62 | 0.52 | 1.24 | 1.04 | 2.40 | 2.00 | 3.30 | 2.75 | 4.50 | 3.80 | 6.60 | 5.7 | 9.10 | 7.60 | 13.7 | 11.2 | 22.0 | 20.0 |
| 15 | 100 | 120 | 0.91 | 0.76 | 1.80 | 1.50 | 3.60 | 3.00 | 4.95 | 4.13 | 6.80 | 5.70 | 9.70 | 8.36 | 13.5 | 11.3 | 20.1 | 16.8 | 32.6 | 29.8 |
| 20 | 75 | 90 | 1.20 | 1.00 | 2.40 | 2.00 | 4.80 | 4.00 | 6.60 | 5.50 | 9.00 | 7.50 | 13.20 | 11.0 | 18.1 | 15.1 | 26.8 | 22.4 | 43.6 | 36.0 |
| 25 | 60 | 72 | 1.40 | 1.20 | 3.00 | 2.50 | 6.00 | 5.00 | 8.25 | 6.88 | 11.2 | 9.40 | 16.43 | 13.79 | 22.6 | 18.9 | 33.6 | 28.0 | 53.9 | 49.53 |
| 30 | 50 | 60 | 1.80 | 1.50 | 3.60 | 3.00 | 7.20 | 6.00 | 9.90 | 8.25 | 13.5 | 11.3 | 19.80 | 16.57 | 27.1 | 22.6 | 40.3 | 33.6 | 64.7 | 58.8 |
| 40 | 37 | 45 | 2.20 | 1.90 | 4.60 | 3.90 | 9.30 | 7.80 | 12.79 | 10.73 | 17.5 | 14.6 | 25.66 | 21.41 | 34.9 | 29.1 | 52.0 | 43.4 | 86.3 | 78.4 |
| 45 | 33 | 40 | 2.70 | 2.20 | 5.40 | 4.40 | 10.9 | 9.10 | 14.99 | 12.51 | 20.6 | 17.0 | 30.21 | 24.93 | 41.1 | 34.0 | 59.8 | 49.6 | 98.5 | 81.7 |
| 50 | 30 | 36 | 2.80 | 2.40 | 5.70 | 4.80 | 11.6 | 9.70 | 15.95 | 13.34 | 21.9 | 18.3 | 32.12 | 26.84 | 43.6 | 36.4 | 65.1 | 54.3 | 107 | 97.0 |
| 60 | 25 | 30 | 3.40 | 2.90 | 6.90 | 5.80 | 13.9 | 11.6 | 19.11 | 15.95 | 26.2 | 21.9 | 38.43 | 30.21 | 52.4 | 43.7 | 78.1 | 65.1 | 127 | 115 |
| 70 | 21 | 25 | 4.30 | 3.60 | 8.00 | 6.80 | 16.2 | 13.5 | 22.28 | 18.56 | 31.5 | 26.3 | 46.20 | 38.57 | 62.4 | 52.0 | 92.5 | 77.1 | | |
| 80 | 19 | 23 | 4.80 | 4.00 | 9.20 | 7.70 | 18.4 | 15.4 | 25.30 | 21.18 | 35.5 | 29.6 | 52.07 | 43.41 | 70.8 | 59.0 | 105 | 87.5 | | |
| 90 | 17 | 20 | 5.20 | 4.40 | 10.3 | 8.60 | 20.7 | 17.3 | 28.46 | 23.79 | 39.3 | 32.8 | 57.64 | 48.10 | 77.1 | 64.3 | 113 | 94.3 | | |
| 100 | 15 | 18 | 5.80 | 4.90 | 11.5 | 9.60 | 23.0 | 19.2 | 31.63 | 26.40 | 43.2 | 36.0 | 63.36 | 52.8 | 83.7 | 69.8 | 126 | 105 | | |
| 120 | 12 | 15 | 6.90 | 5.80 | 13.8 | 11.5 | 27.7 | 23.1 | 38.09 | 31.76 | 51.8 | 43.2 | 75.97 | 63.36 | 101 | 83.7 | | | | |
| 140 | 11 | 13 | 8.00 | 6.70 | 16.0 | 13.4 | 32.0 | 26.7 | 44.0 | 36.71 | 59.7 | 49.8 | 87.56 | 73.04 | 116 | 96.8 | | | | |
| 160 | 9 | 11 | 9.10 | 7.60 | 18.3 | 15.3 | 36.3 | 30.3 | 49.91 | 41.66 | 68.0 | 56.7 | 99.73 | 83.16 | 132 | 110 | | | | |
| 180 | 8 | 10 | 10.3 | 8.60 | 20.7 | 17.3 | 40.8 | 34.0 | 56.10 | 46.78 | 76.8 | 64.0 | 112.6 | 93.87 | 148 | 123 | | | | |
| 200 | 7 | 9 | 11.6 | 9.70 | 22.9 | 19.1 | 43.2 | 36.0 | 59.40 | 49.5 | 82.8 | 69.0 | | | | | | | | |

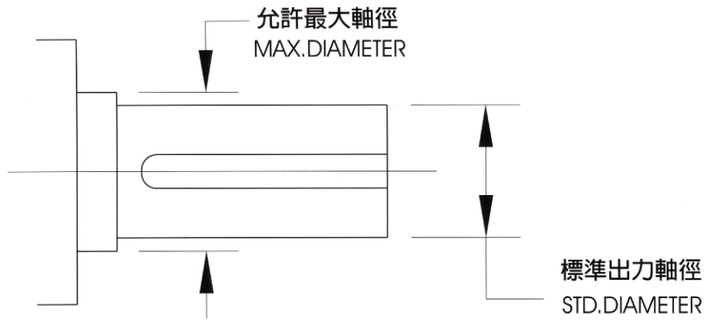
## 4-3 出力轉懸垂荷重 OVERHUNG LOAD

KG

| 減速比 RATIO | 輸出轉速 OUTPUT R.P.M | | 1/8HP 0.1KW | | 1/4HP 0.2KW | | 1/2HP 0.4KW | | 3/4HP 0.55KW | | 1HP 0.75KW | | 3/2HP 1.1KW | | 2HP 1.5KW | | 3HP 2.2KW | | 5HP 3.7KW | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HZ | | | | | | | | | | | | | | | | | | | |
| | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 | 50 | 60 |
| 3 | 500 | 600 | 30 | 25 | 30 | 25 | 54 | 45 | 54 | 45 | 60 | 50 | 145 | 130 | 145 | 130 | 165 | 150 | 200 | 180 |
| 5 | 300 | 360 | 36 | 30 | 36 | 30 | 78 | 70 | 78 | 70 | 85 | 75 | 165 | 150 | 165 | 150 | 210 | 180 | 270 | 225 |
| 10 | 150 | 180 | 70 | 60 | 70 | 60 | 150 | 130 | 150 | 130 | 180 | 150 | 280 | 250 | 280 | 250 | 430 | 360 | 570 | 550 |
| 15 | 100 | 120 | 110 | 90 | 110 | 100 | 175 | 160 | 175 | 160 | 165 | 160 | 355 | 348 | 355 | 348 | 490 | 450 | 780 | 750 |
| 20 | 75 | 90 | 150 | 125 | 135 | 125 | 190 | 170 | 190 | 170 | 175 | 170 | 369 | 365 | 369 | 365 | 540 | 500 | 850 | 830 |
| 25 | 60 | 72 | 155 | 140 | 150 | 140 | 210 | 180 | 210 | 180 | 185 | 180 | 450 | 430 | 450 | 430 | 650 | 630 | 1100 | 1050 |
| 30 | 50 | 60 | 160 | 150 | 170 | 165 | 235 | 220 | 235 | 220 | 415 | 400 | 480 | 450 | 480 | 450 | 690 | 650 | 1200 | 1100 |
| 40 | 38 | 45 | 160 | 160 | 180 | 180 | 270 | 260 | 270 | 260 | 430 | 420 | 580 | 550 | 580 | 550 | 710 | 670 | 1280 | 1200 |
| 45 | 33 | 40 | 170 | 170 | 180 | 180 | 335 | 328 | 335 | 328 | 440 | 430 | 590 | 570 | 590 | 570 | 820 | 780 | 1300 | 1250 |
| 50 | 30 | 36 | 170 | 170 | 180 | 180 | 350 | 335 | 350 | 335 | 450 | 440 | 600 | 580 | 600 | 580 | 850 | 820 | 1400 | 1350 |
| 60 | 25 | 30 | 180 | 180 | 180 | 180 | 350 | 350 | 350 | 350 | 450 | 450 | 630 | 610 | 630 | 610 | 900 | 900 | 1400 | 1400 |
| 70 | 21 | 25 | 180 | 180 | 180 | 180 | 350 | 350 | 350 | 350 | 460 | 460 | 670 | 650 | 670 | 650 | 1100 | 1100 | | |
| 80 | 18 | 22 | 180 | 180 | 180 | 180 | 350 | 350 | 350 | 350 | 460 | 460 | 680 | 680 | 680 | 680 | 1100 | 1100 | | |
| 90 | 16 | 20 | 180 | 180 | 180 | 180 | 350 | 350 | 350 | 350 | 500 | 500 | 850 | 850 | 850 | 850 | 1200 | 1200 | | |
| 100 | 15 | 18 | 200 | 200 | 250 | 250 | 380 | 380 | 380 | 380 | 590 | 590 | 900 | 900 | 900 | 900 | 1200 | 1200 | | |
| 120 | 12 | 15 | 200 | 200 | 320 | 320 | 390 | 390 | 390 | 390 | 640 | 640 | 920 | 920 | 920 | 920 | | | | |
| 140 | 11 | 13 | 200 | 200 | 320 | 320 | 400 | 400 | 400 | 400 | 679 | 679 | 920 | 920 | 920 | 920 | | | | |
| 150 | 10 | 12 | 220 | 220 | 330 | 330 | 420 | 420 | 420 | 420 | 679 | 679 | 950 | 950 | 950 | 950 | | | | |
| 160 | 9 | 11 | 220 | 220 | 330 | 330 | 420 | 420 | 420 | 420 | 700 | 700 | 950 | 950 | 950 | 950 | | | | |
| 180 | 8 | 10 | 240 | 240 | 350 | 350 | 430 | 430 | 430 | 430 | 720 | 720 | 980 | 980 | 980 | 980 | | | | |
| 200 | 7 | 9 | 240 | 240 | 350 | 350 | 430 | 430 | 430 | 430 | 720 | 720 | | | | | | | | |
| 1/250~1/1800 | | | 300 | 300 | 480 | 480 | 720 | 720 | 720 | 720 | 1400 | 1400 | | | | | | | | |



## 4-4出力軸允許最大軸徑 AVAILABLE MAX OUTPUT SHAFT DIAMETER




| 本體框號 HOUSING CODE | 標準出力軸徑 STD OUTPUT SHAFT | 出力軸培林 OUTPUT SHAFT BEARING | 允許最大軸徑 MAX AVAILABLE SHAFT DIAMETER |
|---|---|---|---|
| 1# | ϕ18.0 | 6004 | ϕ20.0 |
| 2# | ϕ22.0 | 6205 | ϕ25.0 |
| 3# | ϕ28.0 | 6206 | ϕ30.0 |
| 4# | ϕ32.0 | 6207 | ϕ35.0 |
| 5# | ϕ40.0 | 6209 | ϕ45.0 |
| 5# | ϕ45.0 | 6209 | ϕ45.0 |
| 6# | ϕ50.0 | 6211 | ϕ55.0 |

## 4-5出力軸軸徑對照表 OUTPUT SHAFT DIAMETER TABLE

標準型（NORMAL DUTY TYPE）

| 馬力 CAPACITY / 速比 RATIO | 1/8HP (100W) | 1/4HP (200W) | 1/2HP (400W) | 3/4HP (550W) | 1HP (750W) | 3/2HP (1100W) | 2HP (1500W) | 3HP (2200W) | 5HP (3700W) |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | 40 | 40 |
| 5 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | 40 | 40 |
| 10 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | 40 | 40 |
| 15 | 18 | 22 | 28 | 28 | 28 | 28 | 32 | 40 | 40 |
| 20 | 18 | 22 | 28 | 28 | 28 | 28 | 32 | 40 | 50 |
| 25 | 18 | 22 | 28 | 28 | 28 | 28 | 32 | 40 | 50 |
| 30 | 18 | 22 | 28 | 28 | 32 | 32 | 32 | 40 | 50 |
| 40 | 18 | 22 | 28 | 28 | 32 | 32 | 40 | 40 | 50 |
| 45 | 18 | 22 | 28 | 28 | 32 | 32 | 40 | 50 | 50 |
| 50 | 18 | 22 | 28 | 28 | 32 | 32 | 40 | 50 | 50 |
| 60 | 22 | 22 | 28 | 28 | 32 | 32 | 40 | 50 | 50 |
| 70 | 22 | 22 | 28 | 28 | 32 | 32 | 40 | 50 | |
| 80 | 22 | 22 | 28 | 28 | 32 | 32 | 40 | 50 | |
| 90 | 22 | 22 | 28 | 28 | 32 | 32 | 40 | 50 | |
| 100 | 22 | 28 | 32 | 32 | 32 | 32 | 40 | 50 | |
| 120 | 22 | 28 | 32 | 32 | 32 | 32 | 50 | | |
| 140 | 22 | 28 | 32 | 32 | 40 | 40 | 50 | | |
| 150 | 22 | 28 | 32 | 32 | 40 | 40 | *50 | | |
| 160 | 22 | 28 | 32 | 32 | 40 | 40 | *50 | | |
| 180 | 22 | 28 | 32 | 32 | 40 | 40 | *50 | | |
| 200 | 22 | 28 | 32 | 32 | 40 | 40 | | | |
| 250-1800 | 28 | 32 | | | | | | | |

輕負載縮框型 LIGHT DUTY TYPE

| 馬力 CAPACITY / 速比 RATIO | 1/8HP (100W) | 1/4HP (200W) | 1/2HP (400W) | 3/4HP (550W) | 1HP (750W) | 3/2HP (1100W) | 2HP (1500W) | 3HP (2200W) | 5HP (3700W) |
|---|---|---|---|---|---|---|---|---|---|
| 3 | | | | | 22 | 22 | 28 | | |
| 5 | | | | | 22 | 22 | 28 | | |
| 10 | | | | | 22 | 22 | 28 | | |
| 15 | | 18 | 22 | 22 | 22 | 22 | 28 | | 40 |
| 20 | | | 22 | 22 | 22 | 22 | 28 | | 40 |
| 25 | | | 22 | 22 | 22 | 22 | 28 | | 40 |
| 30 | | 18 | 22 | 22 | 28 | 28 | 28 | | 40 |
| 40 | | 18 | 22 | 22 | 28 | 28 | 32 | | 40 |
| 45 | | 18 | 22 | 22 | 28 | 28 | 32 | | 40 |
| 50 | | 18 | 22 | 22 | 28 | 28 | 32 | 40 | 40 |
| 60 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | 40 | 40 |
| 70 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | 40 | |
| 80 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | 40 | |
| 90 | 18 | 18 | 22 | 22 | 28 | 28 | 32 | | |
| 100 | 18 | 22 | 28 | 28 | 28 | 28 | 32 | | |
| 120 | 18 | 22 | 28 | 28 | 28 | 28 | 40 | | |
| 140 | 18 | 22 | 28 | 28 | 32 | 32 | 40 | | |
| 150 | 18 | 22 | 28 | 28 | 32 | 32 | 40 | | |
| 160 | 18 | 22 | 28 | 28 | 32 | 32 | 40 | | |
| 180 | *18 | 22 | 28 | 28 | 32 | 32 | *40 | | |
| 200 | *18 | 22 | *28 | *28 | *32 | *32 | | | |
| 250-1800 | 22 | 28 | 32 | 32 | 40 | 40 | | | |

備注 REMARK

1、縮框機型爲不正當設計使用，如非必要請勿選用
LIGHT DUTY TYPE ARE NOT AVAILABLE FOR STANDARD APPLICATION DESIGN,ITONLY SUITABLE FOR SPECIAL PROJECT DESIGN
2、僅就馬達部份提供一年保固，PROVIDE ONE YEAR GUARANTEE FOR MOTOR ONLY
3、*爲達到此速比時必須搭配6P馬達使用。*IT NEED TO USE 6 POLE MOTOR TO REACH CEFTAIN RATIO.



## 4-6公稱及實際速比（NORMAL RATIO&ACTUAL RATIO)

標準型（NORMAL DUTY TYPE）

| 公稱速比 NORMAL RATIO | 低段實際減速比 ACTUAL RATIO | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0.1KW | 0.2KW | 0.4KW | 0.55KW | 0.75KW | 1.1KW | 1.5KW | 2.2KW | 3.7KW |
| 3 | 3.04 | 3.04 | 2.99 | 2.99 | 2.92 | 2.92 | 3.05 | 3.25 | 3.25 |
| 5 | 5.07 | 5.07 | 5.14 | 5.14 | 5.03 | 5.03 | 5.01 | 5.19 | 5.19 |
| 10 | 10.03 | 10.03 | 10.01 | 10.01 | 9.96 | 9.96 | 10.41 | 9.48 | 9.48 |
| 15 | 15.09 | 15.60 | 15.61 | 15.61 | 15.31 | 15.31 | 14.33 | 15.71 | 14.62 |
| 20 | 19.90 | 19.90 | 20.69 | 20.69 | 19.49 | 19.49 | 19.35 | 19.38 | 19.58 |
| 25 | 26.81 | 25.65 | 26.35 | 26.35 | 25.27 | 25.27 | 25.08 | 23.71 | 24.54 |
| 30 | 30.06 | 32.77 | 29.81 | 29.81 | 30.00 | 30.00 | 29.38 | 29.25 | 30.87 |
| 40 | 40.33 | 40.46 | 39.11 | 39.11 | 40.99 | 40.99 | 43.72 | 41.83 | 41.77 |
| 50 | 50.59 | 49.42 | 50.21 | 50.21 | 51.24 | 51.24 | 50.96 | 50.51 | 50.51 |
| 60 | 58.64 | 63.02 | 61.36 | 61.36 | 58.10 | 58.10 | 61.83 | 58.48 | 58.48 |
| 70 | 71.62 | 71.31 | 71.15 | 71.15 | 72.00 | 72.00 | 72.87 | 67.65 | |
| 80 | 80.19 | 81.23 | 77.13 | 77.13 | 79.99 | 79.99 | 80.30 | 81.18 | |
| 90 | 91.34 | 92.69 | 94.27 | 94.27 | 90.00 | 90.00 | 90.54 | 93.99 | |
| 100 | 102.27 | 104.62 | 103.70 | 103.70 | 99.99 | 99.99 | 103.05 | 98.17 | |
| 110 | | 109.02 | | | 108.00 | 108.00 | ***109.20 | | |
| 115 | 115.71 | | | | | | 117.00 | | |
| 120 | 117.73 | 123.33 | 116.66 | 116.66 | 120.00 | 120.00 | 122.20 | | |
| 130 | 131.81 | 133.25 | 129.62 | 129.62 | 133.79 | 133.79 | ***126.30 | | |
| 140 | 134.81 | 141.32 | 140.00 | 140.00 | | | | | |
| 150 | 150.41 | 150.74 | | | 150.41 | 150.41 | ***151.56 | | |
| 160 | 162.73 | 162.86 | 155.55 | 155.55 | 160.70 | 160.70 | ***158.30 | | |
| 170 | 168.40 | 172.73 | | | | | ***175.50 | | |
| 180 | 182.19 | 182.32 | 175.00 | 175.00 | 180.01 | 180.01 | ***183.30 | | |
| 200 | 192.83 | 193.37 | 194.44 | 194.44 | 216.22 | 216.22 | | | |
| 備注 REMARK | ***爲達到此速比時，必需搭配6P馬達使用<br>***IT NEED USE 6 POLE MOTOR TO REACH CERTAIN RATIO | | | | | | | | |

| 公稱速比 NORMAL RATIO | 低段實際減速比 ACTUAL RATIO | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0.1KW | 0.2KW | 0.4KW | 0.55KW | 0.75KW | 1.1KW | 1.5KW | 2.2KW | 3.7KW |
| 250 | 258.02 | 267.07 | 250.05 | 250.05 | 244.62 | 244.62 | | | |
| | 306.03 | 304.74 | 282.89 | 282.89 | 299.84 | 299.84 | | | |
| 350 | 354.98 | 367.70 | 357.57 | 357.57 | 359.81 | 359.81 | | | |
| 400 | 389.75 | 377.61 | 401.21 | 401.21 | 381.87 | 381.87 | | | |
| 450 | 468.00 | 435.77 | 468.71 | 468.71 | 458.24 | 458.24 | | | |
| 500 | 528.35 | 496.40 | 510.97 | 510.97 | 518.42 | 518.42 | | | |
| 600 | 600.78 | 566.42 | 605.37 | 605.37 | 602.14 | 602.14 | | | |
| 700 | 700.07 | 704.66 | 701.91 | 701.91 | 703.57 | 703.57 | | | |
| 800 | 825.28 | 805.32 | 810.36 | 810.36 | 814.66 | 814.66 | | | |
| 900 | 922.95 | 894.80 | 893.94 | 893.94 | 921.64 | 921.64 | | | |
| 1000 | 1008.09 | 1036.04 | 1014.40 | 1014.40 | 985.00 | 985.00 | | | |
| 1100 | 1097.35 | 1118.51 | 1102.53 | 1102.53 | 1114.35 | 1114.35 | | | |
| 1200 | 1224.82 | 1172.26 | 1214.91 | 1214.91 | 1199.37 | 1199.37 | | | |
| 1300 | 1329.80 | 1291.19 | 1298.22 | 1298.22 | | | | | |
| 1400 | 1374.44 | 1393.98 | | | | | | | |
| 1500 | 1517.32 | 1540.55 | 1484.89 | 1484.89 | 1492.43 | 1492.43 | | | |
| 1600 | 1582.76 | 1613.99 | 1574.88 | 1574.88 | 1612.36 | 1612.36 | | | |
| 1650 | | | | | | | | | |
| 1700 | 1711.73 | 1685.55 | 1728.08 | 1728.08 | | | | | |
| 1800 | 1775.20 | 1838.52 | 1821.00 | 1821.00 | 1832.99 | 1832.99 | | | |

## 輕負載縮框型 LIGHT DUTY

| 公稱速比 NORMAL RATIO | 低段實際減速比 ACTUAL RATIO | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0.1kW | 0.2kw | 0.4KW | 0.55KW | 0.75KW | 1.1KW | 1.5KW | 2.2KW | 3.7KW |
| 3 | | | | | 2.99 | 2.99 | 2.93 | | |
| 5 | | | | | 5.14 | 5.14 | 5.03 | | |
| 10 | | | | | 10.01 | 10.01 | 9.96 | | |
| 15 | | 15.09 | 15.06 | 15.06 | 15.06 | 15.06 | 15.03 | | 15.71 |
| 20 | | 19.90 | 20.14 | 20.14 | 20.14 | 20.14 | 19.49 | | 19.37 |
| 25 | | 26.81 | 26.18 | 26.18 | 26.18 | 26.18 | 25.27 | | 23.72 |
| 30 | | 30.06 | 29.31 | 29.31 | 28.93 | 28.93 | 28.93 | | 29.25 |
| 40 | | 40.33 | 44.20 | 44.20 | 43.07 | 43.07 | 41.64 | | 41.82 |
| 50 | | 50.59 | 56.38 | 56.38 | 52.64 | 52.64 | 52.05 | 51.97 | 51.96 |
| 60 | 60.49 | 60.49 | 56.37 | 56.37 | 57.06 | 57.06 | 57.33 | 59.15 | 59.13 |
| 70 | | | 72.67 | 72.67 | 69.75 | 69.75 | 71.66 | 70.23 | |
| 80 | | | 82.92 | 82.92 | 82.22 | 82.22 | 77.40 | 79.93 | |
| 90 | 89.62 | 89.62 | 92.81 | 92.81 | 88.83 | 88.83 | 86.00 | | |
| 100 | | 103.78 | 98.24 | 98.24 | 100.49 | 100.49 | 107.50 | | |
| 120 | 122.49 | 116.20 | 120.07 | 120.07 | 115.15 | 115.15 | 121.67 | | |
| 140 | 140.41 | 133.05 | 135.83 | 135.83 | 135.00 | 135.00 | 136.26 | | |
| 160 | 161.33 | 162.73 | 155.64 | 155.64 | 150.00 | 150.00 | 163.70 | | |
| 180 | ***183.74 | 183.17 | 174.24 | 174.24 | ***180.00 | ***180.00 | ***182.50 | | |
| 200 | ***210.62 | 215.87 | | | ***202.50 | ***202.50 | ***204.39 | | |
| 備注 REMARK | ***爲達到此速比時，必需搭配6P馬達使用<br>***IT NEED USE 6 POLE MOTOR TO REACH CERTAIN RATIO | | | | | | | | |

| 公稱速比 NORMAL RATIO | 低段實際減速比 ACTUAL RATIO | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 0.1kW | 0.2kw | 0.4KW | 0.55KW | 0.75KW | 1.1KW | 1.5KW | 2.2KW | 3.7KW |
| 250 | 255.98 | 258.02 | 255.16 | 255.16 | 264.54 | 264.54 | | | |
| 300 | 300.50 | 291.90 | 300.12 | 300.12 | 299.28 | 299.28 | | | |
| 350 | 340.03 | 354.98 | 344.47 | 344.47 | 356.29 | 356.29 | | | |
| 400 | 396.18 | 389.75 | 389.76 | 389.76 | 401.72 | 401.72 | | | |
| 450 | | 467.84 | 443.98 | 443.98 | 457.24 | 457.24 | | | |
| 500 | 510.63 | 528.35 | 493.38 | 493.38 | 519.30 | 519.30 | | | |
| 600 | 610.64 | 600.78 | 594.88 | 594.88 | 599.53 | 599.53 | | | |
| 700 | 687.84 | | 717.74 | 717.74 | 705.75 | 705.75 | | | |
| 800 | 802.78 | 825.28 | 800.32 | 800.32 | 815.69 | 815.69 | | | |
| 900 | 908.34 | | 884.57 | 884.57 | 922.80 | 922.80 | | | |
| 1000 | 1007.13 | 1052.10 | 1000.40 | 1000.40 | 1016.86 | 1016.86 | | | |
| 1200 | 1321.92 | 1224.82 | 1200.48 | 1200.48 | 1210.37 | 1210.37 | | | |
| 1500 | 1485.90 | 1523.73 | 1500.61 | 1500.61 | 1484.37 | 1484.37 | | | |
| 1800 | 1810.42 | 1771.61 | 1775.94 | 1775.94 | 1775.2 | 1775.2 | | | |
| | | | | | | | | | |



# 4-7潤滑油 LUBRICANT

本公司于出廠前已添加潤滑油脂（BT-860-0),在正常條件下運轉20,000小時可不比更換潤滑油脂，但在特殊環境下運轉時，如：高温，長時間運轉，動擊負荷等，則換油頻率爲10,000-15,000小時。

ALL REDUCERS FILLED WITH LUBRICANT(BT-860-0)BEFORE DELIVERY,NORMALLY,IT NO NEED TOREPLACE LUBRICANT FOR FIRST 20,000 HRS RUNNING,BUT IF WORKING IN SPECIAL APPLICATION,SUCH AS:HIGH TEMPERATURE, 24 HRS RUNNING,HEAVY DUTY IMPAT....etc,THEN LUBRICANT NEED TOBE CHANGED IN EVERY 10,000-15,000 WORKING HOURS,

油量表/重量表（LUBRICANT/WEIGHT TABLE）

| 馬力 CAPACITY | 出力軸 OUTPUT SHAFT | 本體框號 HOUSING CODE | | 機型TYPE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 油量表（公升） LUBRICANT(L) | | 重量表（公斤） WEIGHT(KG) | | | | | |
| | | | | CH CHM CHD | CV CVM CVD | CH | CHM | CHD | CV | CVM | CVD |
| 100W 1/8HP | Φ18 | 1# | | 0.19 | 0.18 | 5.60 | 5.22 | 2.90 | 5.80 | 5.12 | 2.80 |
| | Φ22 | 2# | | 0.38 | 0.39 | 7.30 | 6.40 | 4.00 | 7.30 | 6.52 | 4.10 |
| | Φ28 | 1#+3# | | 0.8 | 0.85 | 14.6 | 12.4 | 11.3 | 14.6 | 12.52 | 11.4 |
| 200W 1/4HP | Φ18 | 1# | | 0.18 | 0.18 | 7.00 | 5.22 | 2.90 | 7.00 | 5.12 | 2.80 |
| | Φ22 | 2# | | 0.38 | 0.39 | 8.60 | 6.42 | 4.00 | 8.80 | 6.52 | 4.10 |
| | Φ28 | 3# | | 0.63 | 0.68 | 11.0 | 9.12 | 8.30 | 10.8 | 8.92 | 8.10 |
| | Φ32 | 2#+4# | | 1.30 | 1.40 | 27.6 | 24.0 | 23.0 | 28.0 | 24.4 | 22.8 |
| 400W 1/2HP | Φ22 | 2# | | 0.38 | 0.39 | 11.1 | 6.42 | 4.80 | 11.2 | 6.52 | 4.90 |
| | Φ28 | 3# | | 0.63 | 0.68 | 14.2 | 9.12 | 8.30 | 14.0 | 8.92 | 8.10 |
| | Φ32 | 4# | | 0.95 | 1.05 | 27.0 | 22.2 | 21.5 | 26.9 | 23.2 | 22.5 |
| 550W 3/4HP | Φ22 | 2# | | 0.38 | 0.39 | 11.1 | 6.42 | 4.80 | 11.2 | 6.52 | 4.90 |
| | Φ28 | 3# | | 0.63 | 0.68 | 14.2 | 9.12 | 8.30 | 14.0 | 8.92 | 8.10 |
| | Φ32 | 4# | | 0.95 | 1.05 | 27.0 | 22.2 | 21.5 | 26.9 | 23.2 | 22.5 |
| 750W 1HP | Φ28 | 3# | | 0.63 | 0.68 | 15.5 | 12.1 | 8.30 | 15.0 | 11.9 | 8.10 |
| | Φ32 | 4# | | 0.95 | 1.05 | 27.6 | 25.1 | 21.5 | 28.0 | 26.1 | 22.5 |
| | Φ40 | 5# | | 1.26 | 1.38 | 42.3 | 37.3 | 32.0 | 41.9 | 36.3 | 31.0 |
| 1100W 3/2HP | Φ28 | 3# | | 0.63 | 0.68 | 15.5 | 12.1 | 8.30 | 15.0 | 11.9 | 8.10 |
| | Φ32 | 4# | | 0.95 | 1.05 | 27.6 | 25.1 | 21.5 | 28.0 | 26.1 | 22.5 |
| | Φ40 | 5# | | 1.26 | 1.38 | 42.3 | 37.3 | 32.0 | 41.9 | 36.3 | 31.0 |
| 1500W 2HP | Φ32 | 4# | | 0.95 | 1.05 | 33.6 | 25.0 | 22.0 | 34.6 | 26.0 | 23.0 |
| | Φ40 | 5# | T | 1.470 | 1.590 | 49.6 | 37.3 | 33.0 | 49.0 | 36.3 | 32.0 |
| | | | TT | 1.260 | 1.470 | | | | | | |
| | Φ50 | 6# | | 2.520 | 2.600 | 94.0 | 74.3 | 70.0 | 94.0 | 71.3 | 67.0 |
| | Φ50 | 4#+6# | | 3.470 | 3.650 | 105.0 | -- | -- | 106.0 | -- | -- |
| 2200W 3HP | Φ40 | 5# | D | 1.680 | 1.800 | 49.0 | 40.8 | 36.5 | 51.0 | 39.8 | 35.5 |
| | | | T | 1.490 | 1.590 | | | | | | |
| | Φ50 | 6# | | 2.520 | 2.600 | 92.5 | 77.8 | 73.5 | 88.5 | 74.8 | 70.5 |
| 3700W 5HP | Φ40 | 5# | | 1.680 | 1.800 | 54.8 | 43.8 | 39.5 | 55.3 | 42.8 | 38.5 |
| | Φ50 | 6# | | 2.520 | 2.600 | 98.5 | 78.8 | 74.5 | 94.5 | 75.8 | 71.5 |

備注：1、此表僅供參考，具體以實物爲準
1、THIS TABLE IS FOR REFERENCE ONLY SUBJECT TO THE SPECIFIC KIND

## 4-8 速比/段數使用表 RATIO/GEAR STAGE TABLE

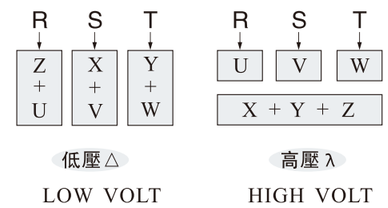
| 馬力 CAPACITY | 速比 RATIO | 雙段 (D) 2ND STAGE | 三段 (T) 3ND STAGE | 雙本體 1#+3# TWIN HOUSING | 雙本體 2#+4# TWIN HOUSING | 雙本體 3#+5# TWIN HOUSING | 雙本體 3#+6# TWIN HOUSING |
|---|---|---|---|---|---|---|---|
| 1/8HP (100W) | 1/3-1/50 | D | | | | | |
| | 1/60-1/200 | | T | | | | |
| | 1/150、180、200 | | T | | | | |
| | 1/250-1/1800 | | | DD | | | |
| 1/4HP (200W) | 1/3-1/35 | D | | | | | |
| | 1/40-1/200 | | T | | | | |
| | 1/60、180、200 | | T | | | | |
| | 1/250-1/1800 | | | | DD | | |
| 1/2HP (400W) | 1/3-1/35 | D | | | | | |
| | 1/40-1/200 | | | | | | |
| | 1/250-1/1800 | | | | DD | | |
| 3/4HP (550W) | 1/3-1/35 | D | | | | | |
| | 1/40-1/200 | | | | | | |
| | 1/250-1/1800 | | | | DD | | |
| 1HP (750W) | 1/3-1/30 | D | | | | | |
| | 1/40-1/120 | | T | | | | |
| | 1/125-1/200 | | (TT) | | | | |
| | 1/250-1/1800 | | | | | | DD |
| 3/2HP (1100W) | 1/3-1/30 | D | | | | | |
| | 1/40-1/120 | | T | | | | |
| | 1/125-1/200 | | (TT) | | | | |
| | 1/250-1/1800 | | | | | | DD |
| 2HP (1500W) | 1/3-1/22 | D | | | | | |
| | 1/25-1/50 | | T | | | | |
| | 1/55-1/100 | | | | | | |
| | 1/105、115、120 | | T | | | | |
| | 1/100-1/180 | | T | | | | |
| 3HP (2200W) | 1/3-1/15 | D | | | | | |
| | 1/20-1/100 | | T | | | | |
| 5HP (3700W) | 1/3-1/25 | D | | | | | |
| | 1/30-1/60 | | T | | | | |
| **馬達到以下速比時，必需搭配6P馬達使用TO REACH CERTAIN RATIO THAT NEED TO USE 6 POLE MOTOR | | | | | | | |
| 2HP | 1/130、1/150 、1/160、1/170、1/180 | | | | | | |



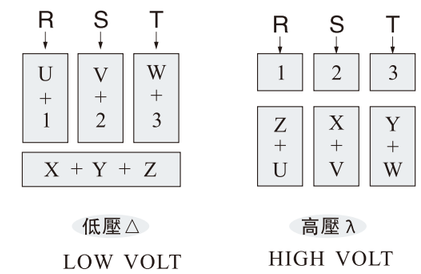
## 4-9 接綫方式 WIRNG DIAGRAM

(1) 三相馬達/剎車器接綫方式 (THREE PHASE MOTOR W/BRAKE UNIT DIAGRAM)

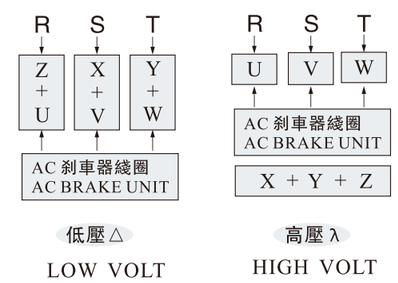
(a) 三相六條馬達電源綫 (FOR SIX WIRES)



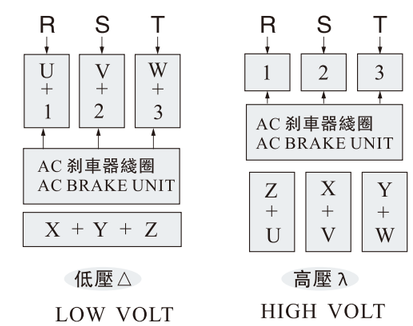

(b) 三相九條馬達電源綫 (FOR SIX WIRES)



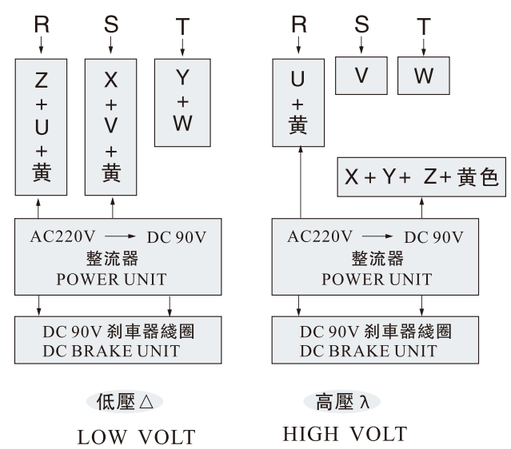

(c) 三相六條馬達電源綫交流剎車器
(SIX WIRES W/ AC BRAKE UNIT)



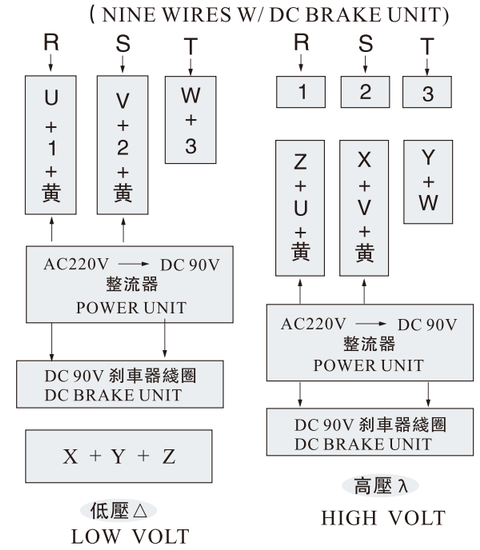

(d) 三相九條馬達電源綫交流剎車器
(NINE WIRES W/ AC BRAKE UNIT)




(e) 六條馬達電源綫直流剎車器
(SIX WIRES W/ DC BRAKE UNIT)



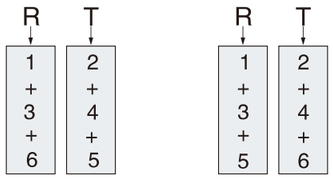

(f) 九條馬達電源綫直流剎車器
(NINE WIRES W/ DC BRAKE UNIT)



## （2）單相馬達/剎車器接綫方式 （SINGLE PHASE MOTOR W/BRAKE UNIT DIAGRAM)

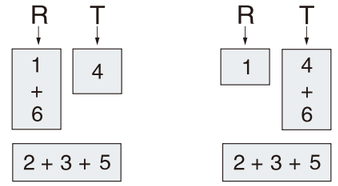
### （a）單相低壓 LOW VOLTAGE–110V

正轉 CLOCKWISE　反轉 COUNT–CLOCKWISE



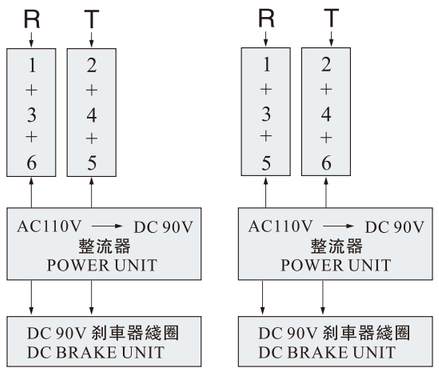

### （b）單相高壓 HIGH VOLTAGE–220V

正轉 CLOCKWISE　反轉 COUNT–CLOCKWISE



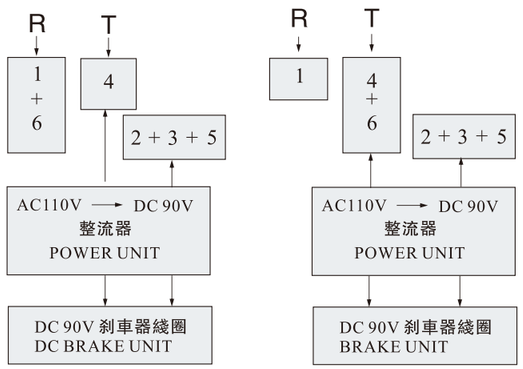

### （C）單相低壓 110V 直流剎車器
LOW VOLTAGE 110V WITH DC BRAK UNIT

正轉 CLOCKWISE　反轉 COUNT-CLOCKWISE



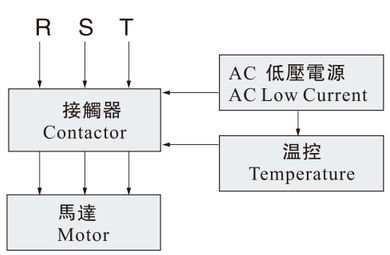

### （d）單相高壓 220V 直流剎車器
HIGH VOLTAGE 220V WITH DC BRAK UNIT

正轉 CLOCKWISE　反轉 COUNT-CLOCKWISE



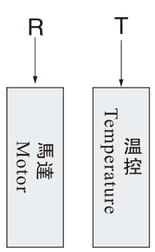

## （3）加温控接綫方式（TEMPERATURE CONTROL WIRING)

### （a）三相馬達加温控接綫圖
3-PHASE THERMOSTAT WIRING DIAGRAM

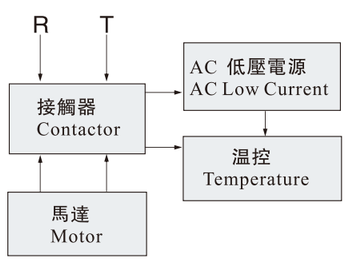



### （b）單相馬達加温控接綫圖
1-PHASE THERMOSTAT WIRING DIAGRAM

單相額定電流小于5A接法
1-PHASE RATED CURRENT IS LESS THAN OR EQUAL TO 5A CONNECTION

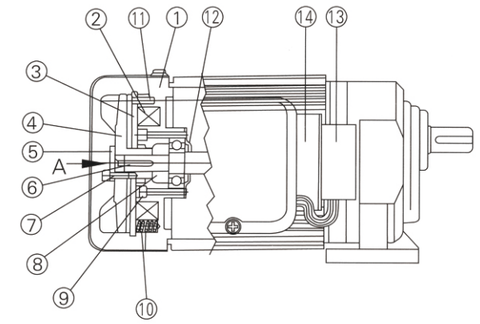



單相額定電流大于5A接法
1-PHASE RATED CURRENT IS GREATER THAN 5A CONNECTION



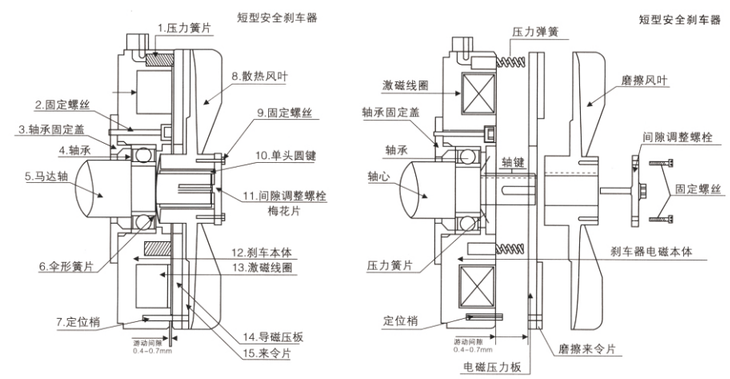



## 剎車裝配圖
Braking assembly drawing



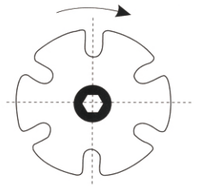

1、剎車主體 Braking main body
2、剎車激勵綫圈 Braking excitation coil
3、來令片 Lining
4、散熱風葉 Radiator
5、調整螺栓 Calibrating bolt
6、單圓鍵 Single round parallel key
7、固定螺絲 Set screws
8、墊圈 Washer
9、套筒螺絲 Telescopic screw
10、壓縮彈簧 compression spring
11、彈簧梢 Spring pin
12、軸承蓋 Bearing cap
13、整流器 Rectifier
14、整流器鐵板 The iron plate rectifier

## 剎車零件分解圖（BRAKE UNIT SECTION DIAGRAM)




1、壓力彈簧 PRESSURE SPRING
2、固定螺絲 FIXED SCREW
3、軸承固定蓋 FIXED BEARING PLATE
4、軸承 BEARING
5、馬達軸 MOTOR SHAFT
6、傘形黃簧片 DISC SPRING
7、定位銷 FIXED PIN
8、散熱風葉 FAN
9、固定螺絲 FIXED SCREW
10、固定鍵 KEY
11、調整螺栓 GAP ADJUSTMENT BOLT
12、煞車本體 BRAKE HOUSING
13、激磁綫圈 BRAKE COIL
14、導磁壓板 FRICTION PLATE
15、來令片 FRICTION BRAKE DISC

## 剎車間隙調整（AD JUST BRAKE CLEARANCE)



1、請先移除固定螺絲
PLEASE REMOVE TWO PIECES FIXED SCREWS IN ADVANCE.
2、順時針調整一格，其間距縮小0.07–0.10mm。
EVERY SINGLE POSITION AD JUSTMENT,BRAKE CLEARANCE WILL REDUCE 0.07–0.10mm

### 剎車間隙調整原因：
The reason of calibrating braking gap:

1、每當使用一段時間剎車動作不正確時。
2、至少每年需要調整剎車間隙一次。
3、依使用的頻率多寡，可自行決定調整間隙的次數。
4、請使用厚薄規調整剎車間隙在0.3–0.5mm之間。

1、 When braking action is not right after using for some time.
2、 Braking gap needs to be adjusted once a year at least.
3、 The frequency of calibration gap can be determined automatically according to use frequency.
4、 Please use thickness gauge to calibrate braking gap between 0.3-0.5mm.

### 間隙調整方法：
The way of gap calibration:

1、打開馬達風蓋，拆掉調整螺栓上兩個固定螺絲。
2、旋轉調整螺栓可調整剎車間隙。順時針---縮小間隙，逆時針---放大間隙，每等距調整約0.2mm。
3、以厚薄規調整好間隙後，將調整螺栓上四個或六個孔之其中對角兩孔固定將固定螺絲鎖緊即完成調整間隙動作，其所調整方法及所需間隙厚薄規爲準。

1、 Open wind cover of the motor and dismantle two fixed screws on calibration bolt.
2、 Rotate and calibrate bolt to calibrate braking gap. Clockwiseshorten the gap, counterclockwise-enlarge the gap, with every isometry calibration of 0.2mm.
3、 After the gap is calibrated with thickness gauge, the diagonal holes among four or six holes in calibration bolt are fixed, and fixed screws are fixed to complete gap calibration, and it refers to calibration method and gap determined by thickness gauge.

## 特長 Strong suits

斷電時動作……無激磁作動剎車，斷電時自動剎車動作。
Action after power off.....without excitation action braking, with automatic braking action when power off
接綫容易……整流器裝于馬達外殼上，接交流電源。
Easy connection.....rectifier installed on the shell of motor, connecting AC power.
小型重量輕……加裝剎車所增加馬達長度極少，體積小，重量輕。
Small-size and lighter.....the length of motor increased from adding brake is very little, small volume, light weight.
壽命長……剎車來令片材質耐磨耗性佳，剎車動作正確，調整方便。
Long service life.....the material of the lining has good endurance, with correct braking action, easy calibration.

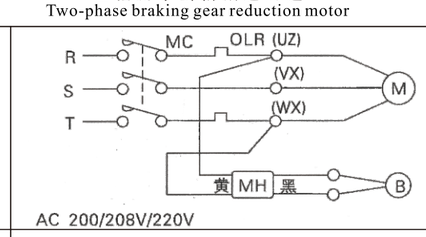
## 剎車規格標準 Braking specification standard

| | | |
|---|---|---|
| 輸出電壓 Output voltage | 三相剎車齒輪減速馬達 Three-phase braking gear reduction motor | 單相剎車齒輪減速馬達 Single--phase braking gear reduction motor |
| 輸放電壓 Discharge voltage | AC200/208/220V–50/60HZ | AC100/100/–50/60HZ |
| 輸出電壓 Output voltage | DC90/108V | DC90/180V |
| 周圍環境溫度 Ambient temperature | –10℃~+40℃ | |
| 絶緣耐壓 Insulated and pressure resistance | AC1500V | |

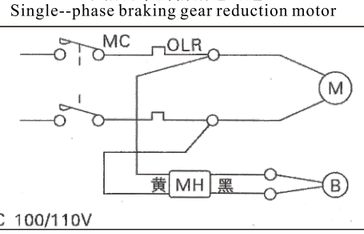
## 接綫圖

三相剎車齒輪減速馬達 Two-phase braking gear reduction motor | 單相剎車齒輪減速馬達 Single--phase braking gear reduction motor

△ 接线图 Wiring diagram

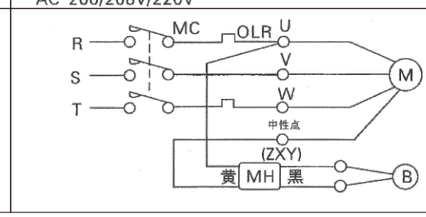


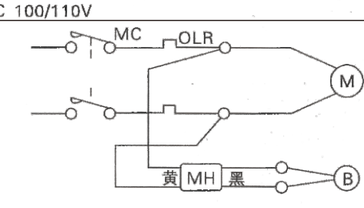

AC 200/208V/220V




AC 100/110V

Y 接线图 Wiring diagram



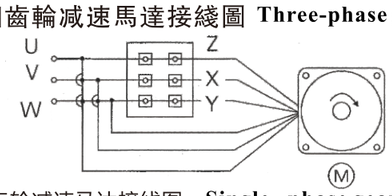




M-----馬達 Motor　　B----剎車 Brake
MH---整流器 Rectifier
MC----電磁接觸器 Electromagnetic connector
OLR-----過負荷繼電器 Overload relay

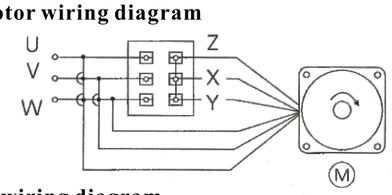
注：剎車馬達接變頻器使用，剎車綫圈可能產生吸合不良，剎車綫圈可直接銘牌標注的市電。
Note: braking motor is connected to transducer, and braking coil may generate bad actuation, and braking coil can be marked directly.

## 三相齒輪減速馬達接綫圖 Three-phase gear reduction motor wiring diagram

AC220V




AC380V




## 单相齿轮减速马达接线图 Single--phase gear reduction motor wiring diagram

單相低壓Low voltage–110V

正轉 Clockwise　R ↓ 1 + 4　T ↓ 2 + 3
反轉 Count–clockwise　R ↓ 1 + 3　T ↓ 2 + 4

單相高壓 High voltage–220V

正轉 Clockwise　R ↓ 1 + 4　T ↓ 2 + 3
反轉 Count–clockwise　R ↓ 1 + 3　T ↓ 2 + 4



## 4–10–1 交流剎車器規格（FUNCTION FOR BRAKE UNIT）

## 4–10 剎車器性能説明（AC BRAKE UNIT SPECIFCATION）

| 輸出馬力 CAPACITY (HP) | 允許最高轉速 PERMIT MAX RPM | 剎車制動力 TORQUE (KG-M) | 剎車間隙 CLEAR -ANCE (mm) | 來令片 BRAKE DISC | | 重量 WEIGHT (KG) |
|---|---|---|---|---|---|---|
| | | | | 外徑O/D | 内徑I/D | |
| 1/4HP4P | 4000 | 0.15-0.30 | 0.4-1.2 | 83 | 48 | 1.6 |
| 1/2HP4P-1/4HP6P | 4000 | 0.15-0.40 | 0.4-1.2 | 112 | 65 | 4.0 |
| 1HP4P-1/2HP6P | 4000 | 0.25-0.70 | 0.5-1.3 | 130 | 68 | 4.3 |
| 2HP4P-1HP6P | 3600 | 0.42-1.50 | 0.5-1.4 | 140 | 78 | 5.8 |
| 3HP4P-2HP6P | 3600 | 0.92-2.00 | 0.5-1.4 | 150 | 78 | 7.0 |
| 5HP4P-3HP6P | 3600 | 1.80-3.50 | 0.5-1.5 | 170 | 86 | 9.0 |
| 7.5HP4P-5HP6P | 3600 | 2.80-5.50 | 0.5-1.7 | 170 | 86 | 12.5 |
| 10HP4P-7.5HP6P | 3400 | 4.00-7.00 | 0.6-1.7 | 190 | 105 | 15.0 |
| 15HP4P-10HP6P | 3400 | 6.00-11.00 | 0.6-1.7 | 200 | 110 | 23.6 |
| 20HP4P-15HP6P | 3200 | 8.00-13.00 | 0.6-1.8 | 240 | 125 | 31.5 |
| 25HP4P-20HP6P | 2600 | 15.00-23.00 | 0.8-2.0 | 300 | 145 | 54.5 |
| 30HP4P-25HP6P | 2600 | 15.00-23.00 | 0.8-2.0 | 300 | 145 | 54.5 |
| 40HP4P-30HP6P | 2600 | 15.00-23.00 | 0.8-2.0 | 300 | 145 | 54.5 |

備注 REMARK
1、AC剎車器安裝尺寸較長于原有標準馬達
AC BRAKE UNIT LENGTH LONGER THAN ORIGINAL STADARD MOTOR
2、適用電壓 AVAILABLE VOLTAGE
220V、380V、400V、415V、440V、460V
3、可接受特殊訂制AC剎車器及專用剎車機型
AVAILABLE FOR SPECIAL BRAKE DESIGN
4、BA07–BA40爲復板式剎車器
DOUBLE BRAKE DISC SYSTEM FOR 7.5HP4P–40HP4P

## 4–10–2 直流安全式剎車器規格（DC BRAKE UNIT SPECIFICAION）

| 輸出馬力 CAPACITY (HP) | 剎車制動力 TORQUE (KG-M) | 剎車間隙 CLEAR -ANCE (mm) | 剎車時間 BRAKE (SEC) | 釋放時間 BELEASE (SEC) | 剎車綫圈 BRAKE COIL | | | 重量 WEIGHT (KG) |
|---|---|---|---|---|---|---|---|---|
| | | | | | 電壓 VOLTAGE (DC-V) | 電流 AMP (A) | 阻抗 OHM(Ω) | |
| 1/4HP4P | 0.20 | 0.2-0.60 | 0.22 | 0.12 | 95±10% | 0.17 | 565 | 3.5 |
| 1/2HP4P | 0.40 | 0.2-0.60 | 0.24 | 0.13 | 95±10% | 0.28 | 336 | 4.0 |
| 1HP4P | 0.80 | 0.3-0.65 | 0.22 | 0.12 | 95±10% | 0.41 | 233 | 5.0 |
| 2HP4P | 1.50 | 0.3-0.65 | 0.28 | 0.15 | 95±10% | 0.57 | 167 | 6.0 |
| 3HP4P | 2.20 | 0.4-0.70 | 0.28 | 0.18 | 95±10% | 0.73 | 130 | 8.0 |
| 5HP4P | 4.50 | 0.4-0.70 | 0.28 | 0.18 | 95±10% | 0.73 | 130 | 10.0 |
| 7.5HP4P | 5.60 | 0.5-0.90 | 0.38 | 0.21 | 95±10% | 1.02 | 93 | 12.5 |

備注 REMARK
1、直流剎車器安裝尺寸相同于原有標準馬達
DC BRAKE UNIT LENGYH SAME AS ORIGINAL STANDARD MOTOR
2、採用非石棉剎車來令片材質
ADOPT MATERIAL WITH NON-ASBESTOS BRAKE DISC
3、適用電壓 AVAILABLE VOLTAGE
220V、380V、400V、415V、440V、460V
4、剎車電源爲 DC90V BRAKE COIL VOLTAGE：DC90V
5、選用配件 OPTIONAL DESIGN
a、可加手動釋放剎車裝置
AVAILABLE FOR MANUAL RELEASE BRAKE SYSTEM

# 記事簽


瑞安市展鹏机械有限公司：
荣 获
浙江省国家税务局2016年度纳税信用A级纳税单位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2020年度
瑞安市高成长型工业企业
瑞安市人民政府
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会员单位
瑞安市机械电子行业协会
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