



永坤電機
YONGKUN MOTOR

臺灣永坤電機股份有限公司
TAIWAN YONGKUN MOTOR CO., LTD.

電話TEL: 00886-2-22861785

傳真FAX: 00886-2-22861261

地址: 臺灣省臺北縣三重市三和路四段191巷33號

HTTP: //WWW.YONGKUN-DRIVE.COM

經銷商



永坤電機
YONGKUN MOTOR

蝸輪減速機/電機/轉向器

WORM GEAR REDUCER / MOTOR / REDIRECTOR

- NMRV系列蝸輪蝸杆減速機
 - VF系列蝸輪減速機
 - YK系列鋁殼三相異步電動機
 - SWL系列蝸輪絲杆升降機
 - T系列螺旋傘齒輪轉向器
-
- NMRV series Worm Gear Speed Reducer
 - VF series Worm Gear Speed Reducer
 - YK series Asynchronous Motor
 - SWL series Worm Gear Screw Lifter
 - T series Spiral Bevel Redirector





目錄 Contents

| | |
|--|----|
| 公司簡介 Company Profile | 03 |
| NMRV系列 蝸輪蝸杆減速機 NMRV Worm Gear Speed Reducer 04-36 | |
| 1. 產品介紹 General Features | 04 |
| 2. 型號注解 Designation | 05 |
| 3. 選型參數 Type selection | 06 |
| 4. 尺寸 Dimensions | 08 |
| 5. NMRV與電機的安裝型式 NMRV Mounting positions with motor | 29 |
| 6. 雙級機型參數 Combine worm geared motor performance | 30 |
| 7. 雙級機型尺寸 Combine worm geared motor size | 32 |
| 8. 雙級機型帶電機安裝型式 Combine mounting positions with motor | 34 |
| 9. 使用說明書 Use's Manual | 35 |
| VF系列 蝸輪減速機 VF Worm Gear Speed Reducer 37-57 | |
| 1. 產品圖片 Picture of Products | 37 |
| 2. 設計方案 Model illuminate | 38 |
| 3. 型號說明 Model Illuminate | 39 |
| 4. 減速機選型表 Gear Unit Selection Tables | 40 |
| 5. 外形尺寸圖 Outline Dimension Sheet | 46 |
| 6. 附件尺寸表 Accessories Outline Dimension Sheet | 54 |
| 7. 安裝方位 Arrangements | 55 |
| YK系列鋁殼三相異步電動機 YK series Asynchronous Motor 58-59 | |
| SWL系列 蝸輪絲杆升降機 SWL Worm Gear Screw Lifter 60-71 | |
| 1. 產品圖片 Picture of Products | 60 |
| 2. 產品說明 Product Introduction | 61 |
| 3. 型號說明 Model Introduction | 61 |
| 4. 安裝方式 Mounting Option | 62 |
| 5. 軸指向表示 Express of Shaft Orientation | 62 |
| 6. 承載能力及選型參數 Capacity and Model Selection | 63 |
| 7. 應用示例 Application Example | 64 |
| 8. 升降機選型 Model Selection for Screw Lifter | 65 |
| 9. 注意事項 Notes | 68 |
| 10. SWL系列 蝸輪絲杆升降機外形安裝尺寸 Mounting Dimensions | 69 |
| 11. SWLD系列 蝸輪絲杆升降機外形安裝尺寸 Mounting Dimensions | 71 |
| T系列螺旋傘齒輪轉向器 T Series Spiral Bevel Redirector 72-80 | |
| 1. 產品圖片 Picture of Products | 72 |
| 2. 產品概述 Product Overview | 73 |
| 3. 產品結構圖 Product Structural View | 73 |
| 4. 轉向功能 Function of Rotation | 73 |
| 5. 選定輸入軸時應注意轉速關係 (1:1傳動比時無關係) Please pay attention to speed relationship when selecting input shaft | 74 |
| 6. 型號表示方法 Expressed method of Model | 74 |
| 7. 重量表 Weight Table | 74 |
| 8. 轉向器Fr (N)表 Redirector Fr(N) Table | 75 |
| 9. 被驅動設備系數f1 Service Factor f1 | 75 |
| 10. 選型舉例 Selection for Example | 76 |
| 11. 傳動能力表 Transmission Capacity Table | 77 |
| 12. 軸配置及軸旋轉方向的關係、安裝方位及尺寸圖表 The relationship between shaft arrangements and direction of shaft rotation, Mounting position and dimension sheets | 79 |

公司簡介 Company Profile

臺灣永坤電機股份有限公司是一家專業研發，生產，銷售傳動產品為一體化公司，主要核心產品有：齒輪減速電機，小型調速電機，交流伺服電機，混合式步進電機及驅動器，行星減速機，四大系列硬齒面減速電機，蝸輪蝸杆減速機等傳動產品。

臺灣永坤電機股份有限公司創辦以來，均以提供各種能提升產業自動化的普及率為目標，十多年來我們一直追求如何將人文與科技融合為一體，使人類能在輕鬆愉快的工作中又能達到快速高效率的生產目標。

在我們集思廣益秉持着一份執着，最終我們選定了有關提升產業自動化的利器，也就是我們目前研發生產的產品廣泛用于各種機械手、數控機床、機床加工中心、壓力機、電光源設備、自動送料機、印刷機械、食品包裝機械、制藥機械、玻璃陶瓷機械、綉花紡織機、雕刻手臂及普通機械等自動化控制領域。

臺灣永坤電機股份有限公司以ISO9001體系進行流程與質量控管，采用理論與實際相結合，技術加市場的運作模式，進出口等多元化的業務類型，以達到技術創新，產品一流，服務完善，客戶滿意，從而保證公司永續經營，企業與客戶群的互惠互利。

我們將以穩健的發展，高效益的組織結構，為廣大客戶服務，以質量取勝為方針，採取企業與社會效益的良性循環，創造一個充滿生命力的組織體。

歡迎來電洽談商務，本公司將竭誠為您服務。

Taiwan Yongkun Motor Co., Ltd is a professional R&D, production, sales of transmission products for Integrated firm, the main core products are AC servo motor, hybrid stepping motor and actuator, planetary reducer, four series of hardened slowdown motor transmission products.

Taiwan Yongkun Motor Co., Ltd established companies, are to popularize provides various can promote industrial automation rate, 10 years we have been pursuing how humanity and science and technology integration, make the mankind can achieve rapid and effective rate of production targets and in a relaxed and happy work

In our brainstorming with a persistent, we finally selected weapon related to the promotion of industrial automation, is our current R&D and production of the products are widely used in various mechanical hand, CNC machine tools and machining center, machine, electric light source equipment, automatic feeding machine, printing machinery, food packaging machinery, pharmaceutical machinery, glass ceramics embroidered textile machine, engraving machine, arm and general machinery automation control field.

Taiwan Yongkun Motor Co., Ltd for process and quality control in ISO9001 system, by combining theory and practice, the operation mode of technology and market, such as import and export of diversified business type, in order to achieve the innovation of technology, first-class products, perfect service, customer satisfaction, and Surety Company to sustainable management, mutual reciprocity and mutual benefit business and customers.

We will be the steady development, organizational structure and high effectiveness, for the majority of customer service, win with quality as the principle of benign loop to take business and social benefits, creating a vibrant organization.

Welcome to negotiate business, the company will wholeheartedly at your service.

NIMRV

VF

MOTOR

T

NMRV系列蝸輪蝸杆減速機 NMRV Worm Gear Speed Reducer

1. 產品介紹 General Features

公司生產的RV系列的蝸輪蝸杆減速器包括NMRV和NRV兩大類，這種產品的特點是：

- 采用ZK型錐面包絡傳動原理
- 先進的耐磨材料
- 性能優越、結構緊湊、體積小、效率高；
- 安裝簡易、易于維護檢修；
- 傳動比範圍大、扭矩大、承受過載能力高；
- 運行平穩、噪音低、經久耐用；
- 適用性強、安全可靠性大。

應用範圍：

在您選購本公司產品之前，請認真參考如下的使用範圍：

- 可以在高慣性條件下運轉；
- 可以用在高動態張力的情況下；
- 適用的環境溫度範圍-10~60°
- 用在環境壓力超過大氣壓的環境中；
- 本減速器避免用于液體環境中。

RV series of worm geared motor that our company produce include NMRV and NRV. Their performance features:

- ZK worm profile > high anti-wear material
- Excellent performance, simply structure, small cubage and high efficiency;
- Easy to mount and maintain;
- Wide output Reduction ratio, large torque and good capability of enduring overloads;
- Running stably, low noise and wearing well;
- Wide applicability and enough safe dependability.

Critical applications:

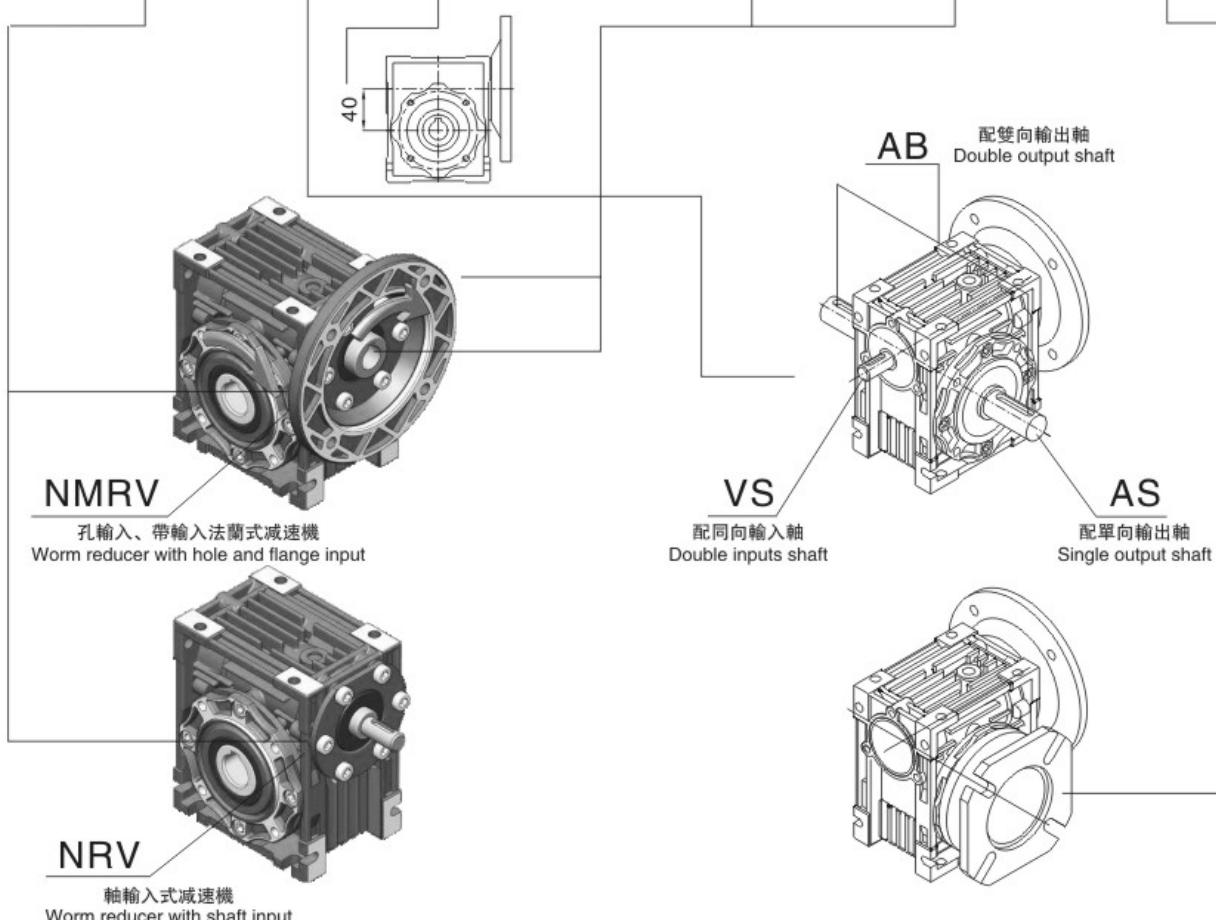
It is also necessary to take in consideration of and carefully assess the following applications by calling our Technical Service:

- Applications with especially high inertia,
- Applications with high dynamic strain on the case of the reduction unit,
- In places with T° under -10°C or over 60°C,
- Use in environments pressures other than atmospheric pressure,
- Avoid applications where even partial immersion of the reduction unit is required.



2. 型號注解 Designation

| NMRV | .VS | 040 | .20 | -140 | /11 | +FA |
|----------------------------|---|-------------------|---------------------------|------------------------------------|------------------------------------|-----------------------|
| 輸入形式 Input code name | 輸出形式 Output code name | 中心距 Size | 傳動比 Reduction ratio | 輸入法蘭尺寸 Input flange diameter | NMRV的輸入孔尺寸 Drive shaft diameter | 輸出法蘭 Output flange |
| NMRV NRV | VS AB AS 默認孔輸出 The default output hole | 025 | 5 | 80 | 9 | FA |
| | | 030 | 7.5 | 90 | 11 | FB |
| | | 040 | 10 | 105 | 14 | FC |
| | | 050 | 15 | 120 | 19 | FD |
| | | 063 | 20 | 140 | 24 | FE |
| | | 075 | 25 | 160 | 28 | |
| | | 090 | 30 | 200 | 38 | |
| | | 105 | 40 | 250 | | |
| | | 110 | 50 | 300 | | |
| | | 130 | 60 | 350 | | |
| | | 150 | 80 | | | |
| | | 100 | | | | |
| (必要) Necessary | (可選) Optional | (必要) Necessary | (必要) Necessary | (可選) Optional | (可選) Optional | (可選) Optional |



示例1: "NMRV. AS063.20-200/24+FB" 表示: NMRV(孔輸入)形式, 帶單向輸出軸,
中心距63mm, 傳動比20, 輸入法蘭大小為200mm, 輸入孔為24mm, 配FB輸出法蘭。

Sample 1: "NMRV. AS063.20-200/24+FB" indicates: NMRV (input hole) form.
with single output shaft. Size 63mm. Input flange size is 200mm. input hole is 24mm. matching output flange FB.

示例2: "NRV110.25" 表示: NRV(軸)輸入形式, 中心距110mm, 傳動比25, 默認孔輸出形式, 不帶輸出法蘭。
Sample 2: "NRV110.25" indicates: NRV(shaft)input form size 110mm. Reduction ratio is 25.
The default output hole form. Without output flange.



型號注解 Designation

| | | | |
|----------|---|--------|--|
| NMRV | 帶輸入法蘭式減速器(配合電機使用) Worm geared motor | | |
| NRV | 帶輸入軸式減速器 Worm reduction unit | | |
| 050 | 中心距 Size | | |
| FA | 輸出法蘭 Output flange | | |
| 30 | 傳動比 Reduction ratio | D or S | 輸出法蘭的安裝型式 Output flange mounting position |
| PAM | 帶輸入法蘭式減速器(配合電機使用, 基本型) Fitted for motor coupling | | |
| 200 | 輸入法蘭尺寸 Motor flange diameter | 19 | NMRV 的輸入孔尺寸 Drive shaft diamete |
| VS | 配同向輸入軸 Double input shaft | AS | 配單向輸出軸 Single output shaft |
| AB | 配同雙向輸入軸 Fouble output shaft | B3 | 安裝型式 Mounting position |
| 0.75KW | 電機功率 Electric motor power | 4P | 電機極數 Electric motor polarity |
| 230/400V | 電機電壓 Electrv motor voltage | 50HZ | 電機頻率 Electric motor frequency |

3. 選型參數 Type selection

特性 Performance

| 加于減速器的負荷性質 Type of load | 每日工作時數 Hours/day | | | | | |
|----------------------------|--|------|------|--|------|------|
| | 每小時間斷性操作次數少于10次 Srarts/hour less than times | | | 每小時連續性或間斷性操作次數大于10次 Starts/hour more than ten times | | |
| | <2 | 2~8 | 8~24 | <2 | 2~8 | 8~24 |
| | 工作系數 Service factor | | | | | |
| 帶均衡負荷 Uniform | 0.8 | 1 | 1.25 | 1 | 1.25 | 1.75 |
| 帶中級震蕩 Moderate | 1 | 1.25 | 1.5 | 1.5 | 1.75 | 2 |
| 帶重級震蕩 Heavy shocks | 1.25 | 1.5 | 1.75 | 1.75 | 2 | 2.25 |



轉矩功率參數表(配4級n₁=1400r/min電機)
Parameter Schedule (With 4P, n₁=1400r/min motor)

| | | 中心距25 Size | | | 中心距30 Size | | | 中心距40 Size | | | 中心距50 Size | | |
|-----|------------------------|---------------------|----------------------|------|---------------------|----------------------|------|---------------------|----------------------|------|---------------------|----------------------|------|
| i | n ₂ (r/min) | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. |
| 5 | 280 | - | - | - | 0.18 | 5.3 | 3.4 | 0.37 | 11.2 | 3 | 0.75 | 22.8 | 2.7 |
| 7.5 | 186.7 | - | - | - | 0.18 | 7.8 | 2.3 | 0.37 | 16 | 2.4 | 0.75 | 34 | 2.1 |
| 10 | 140 | - | - | - | 0.18 | 10 | 1.8 | 0.37 | 21 | 1.9 | 0.75 | 44 | 1.6 |
| 15 | 93.3 | 0.09 | 7.3 | 1.6 | 0.18 | 14 | 1.3 | 0.37 | 31 | 0.8 | 0.75 | 63 | 1.2 |
| 20 | 70 | 0.09 | 9.2 | 1.3 | 0.18 | 18 | 1 | 0.37 | 39 | 1 | 0.75 | 81 | 0.9 |
| 25 | 56 | 0.09 | 10 | 1.2 | 0.18 | 21 | 1 | 0.37 | 47 | 0.8 | 0.55 | 71 | 1 |
| 30 | 46.7 | 0.09 | 12 | 1.1 | 0.18 | 24 | 0.8 | 0.37 | 53 | 0.8 | 0.55 | 81 | 1 |
| 40 | 35 | 0.09 | 15 | 0.8 | 0.12 | 19 | 0.9 | 0.25 | 44 | 0.9 | 0.37 | 68 | 1.1 |
| 50 | 28 | 0.06 | 12 | 0.9 | 0.12 | 23 | 0.8 | 0.22 | 47 | 0.8 | 0.37 | 80 | 0.9 |
| 60 | 23.3 | 0.06 | 14 | 0.7 | 0.09 | 19 | 0.9 | 0.18 | 43 | 0.8 | 0.37 | 89 | 0.8 |
| 80 | 17.5 | - | - | - | 0.06 | 14 | 0.9 | 0.12 | 34 | 1 | 0.25 | 72 | 0.9 |
| 100 | 14 | - | - | - | - | - | - | 0.12 | 38 | 0.8 | 0.18 | 60 | 0.9 |
| | | 中心距63 Size | | | 中心距75 Size | | | 中心距90 Size | | | 中心距105 Size | | |
| i | n ₂ (r/min) | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. |
| 5 | 280 | 1.5 | 46 | 2 | - | - | - | - | - | - | - | - | - |
| 7.5 | 186.7 | 1.5 | 67.5 | 1.9 | 4 | 182 | 1 | 4 | 184.2 | 1.6 | 7.5 | 345 | 1.3 |
| 10 | 140 | 1.5 | 89 | 1.5 | 3 | 180 | 1.1 | 4 | 243 | 1.3 | 7.5 | 455 | 1.1 |
| 15 | 93.3 | 1.5 | 127 | 1.1 | 3 | 261 | 0.8 | 4 | 352 | 1 | 5.5 | 484 | 1.2 |
| 20 | 70 | 1.5 | 166 | 0.8 | 1.5 | 168 | 1.3 | 4 | 458 | 0.8 | 4.8 | 557 | 1 |
| 25 | 56 | 1.1 | 146 | 0.9 | 1.5 | 205 | 1 | 3 | 420 | 0.8 | 4 | 573 | 1 |
| 30 | 46.7 | 1.1 | 167 | 1 | 1.5 | 233 | 1 | 3 | 479 | 0.9 | 4 | 647 | 1 |
| 40 | 35 | 0.92 | 176 | 0.8 | 1.1 | 216 | 1 | 1.84 | 377 | 1 | 3 | 638 | 1 |
| 50 | 28 | 0.55 | 124 | 1.1 | 0.55 | 129 | 1.6 | 1.84 | 452 | 0.8 | 3 | 767 | 0.8 |
| 60 | 23.3 | 0.55 | 140 | 0.9 | 0.55 | 146 | 1.4 | 1.5 | 424 | 0.8 | 2.2 | 648 | 0.9 |
| 80 | 17.5 | 0.37 | 115 | 1.1 | 0.55 | 180 | 1.1 | 0.75 | 258 | 1.1 | 1.5 | 548 | 0.9 |
| 100 | 14 | 0.37 | 129 | 0.9 | 0.55 | 206 | 0.9 | 0.75 | 302 | 0.9 | 1.1 | 473 | 1 |
| | | 中心距110 Size | | | 中心距130 Size | | | 中心距150 Size | | | 注釋 Note | | |
| i | n ₂ (r/min) | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. | P ₁ (kw) | M ₂ (N.m) | s.f. | | | |
| 5 | 280 | - | - | - | - | - | - | - | - | - | | | |
| 7.5 | 186.7 | 7.5 | 345 | 1.3 | 7.5 | 349.2 | 2.1 | - | - | - | | | |
| 10 | 140 | 7.5 | 455 | 1.1 | 7.5 | 455 | 1.8 | - | - | - | | | |
| 15 | 93.3 | 5.5 | 484 | 1.4 | 7.5 | 668 | 1.4 | 15 | 921 | 1.3 | | | |
| 20 | 70 | 5.5 | 638 | 0.9 | 7.5 | 880 | 1 | 11 | 990 | 1.3 | | | |
| 25 | 56 | 4.8 | 688 | 0.9 | 7.5 | 1074 | 0.9 | 11 | 1291 | 1 | | | |
| 30 | 46.7 | 4 | 647 | 1.1 | 5.5 | 900 | 1.2 | 7.5 | 1074 | 1.1 | | | |
| 40 | 35 | 3 | 638 | 1 | 5.5 | 1171 | 0.9 | 7.5 | 1274 | 0.9 | | | |
| 50 | 28 | 3 | 767 | 0.8 | 4.8 | 1244 | 1.1 | 5.5 | 1171 | 1.3 | | | |
| 60 | 23.3 | 2.2 | 648 | 0.9 | 4 | 1179 | 0.8 | 5.5 | 1426 | 1 | | | |
| 80 | 17.5 | 1.5 | 548 | 0.9 | 2.2 | 816 | 1 | 4 | 1195 | 1.1 | | | |
| 100 | 14 | 1.1 | 473 | 1 | 2.2 | 966 | 1 | 4 | 1484 | 0.8 | | | |

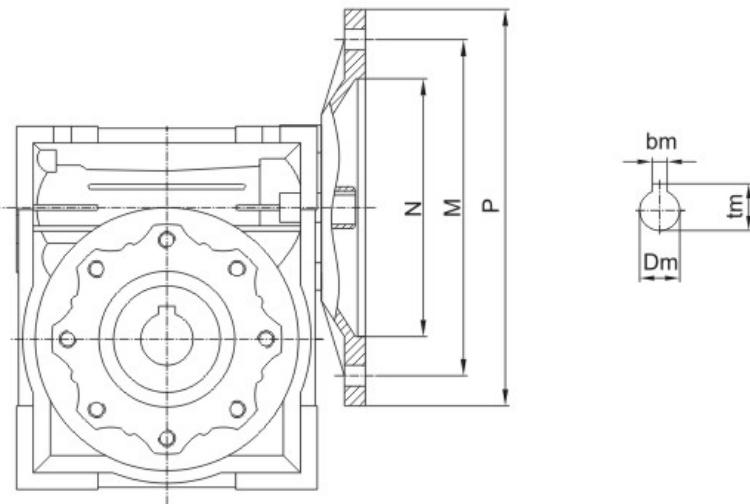
n₁=輸入速度 (r/min)
n₂=輸出速度 (r/min)
M₂=輸出轉矩 (N.m)
i=傳動比
s.f.=工作系數

n₁=input speed (r/min)
n₂=output speed (r/min)
M₂=input speed (N.m)
i=reduction ratio
s.f.=service factor



4. 尺寸 Dimensions

4.1 輸入尺寸總表 Input size general schedules



| NMRV | Mounting Spec. | | | | | Dm | | | | | | | | | | | | |
|------|----------------|-----|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|
| | PAM-IEC | N | M | P | bm | tm | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| 25 | 56B14 | 50 | 65 | 80 | 3 | 10.4 | — | — | — | 9 | 9 | 9 | 9 | 9 | 9 | 9 | — | — |
| 30 | 63B5 | 95 | 115 | 140 | 4 | 12.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | — | — |
| | 63B14 | 60 | 75 | 90 | 4 | 12.8 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | — |
| | 56B5 | 80 | 100 | 120 | 3 | 10.4 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | — |
| | 56B14 | 50 | 65 | 80 | 3 | 10.4 | | — | — | — | — | — | — | — | — | — | — | — |
| 40 | 71B5 | 110 | 130 | 160 | 5 | 16.3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | — | — | — |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | 63B14 | 60 | 75 | 90 | 4 | 12.8 | | — | — | — | — | — | — | — | — | 9 | 9 | 9 |
| | 56B5 | 80 | 100 | 120 | 3 | 10.4 | | — | — | — | — | — | — | — | — | 9 | 9 | 9 |
| 50 | 80B5 | 130 | 165 | 200 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | — | — | — | — |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | | — | — | — | — | — | — | — | — | — | — | — |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | — |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | | — | — | — | — | — | — | — | — | — | — | — |
| 63 | 90B5 | 130 | 165 | 200 | 8 | 27.3 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | — | — | — | — | — |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | — |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | | — | — | — | — | — | — | — | — | — | — | — |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | | — | — | — | — | — | — | — | 14 | 14 | 14 | 14 |
| 75 | 71B14 | 70 | 85 | 105 | 5 | 16.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | — | 28 | 28 | 28 | 28 | — | — | — | — | — | — | — |
| | 100/112B14 | 110 | 130 | 160 | 8 | 31.3 | | — | 24 | 24 | 24 | 24 | 24 | 24 | — | — | — | — |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | | — | 24 | 24 | 24 | 24 | 24 | 24 | — | — | — | — |
| 80 | 80B5 | 130 | 165 | 200 | 6 | 21.8 | — | — | — | — | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | | — | — | — | — | — | — | — | 19 | 19 | 19 | 19 |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | | — | — | — | — | — | — | — | 14 | 14 | 14 | 14 |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | | — | 28 | 28 | 28 | 28 | 28 | 28 | — | — | — | — |
| 90 | 100/112B14 | 110 | 130 | 160 | 8 | 31.3 | | — | 24 | 24 | 24 | 24 | 24 | 24 | — | — | — | — |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | | — | — | — | — | — | — | — | — | — | — | — |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | | — | 24 | 24 | 24 | 24 | 24 | 24 | — | — | — | — |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | | — | — | — | — | — | — | — | 19 | 19 | 19 | 19 |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | | — | — | — | — | — | — | — | 19 | 19 | 19 | 19 |
| 105 | 132B5 | 230 | 265 | 300 | 10 | 41.3 | — | 38* | 38* | 38* | 38* | 38* | — | — | — | — | — | — |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | | — | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | — |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | | — | — | — | — | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | | — | — | — | — | — | — | — | — | — | 19 | 19 |
| | 132B5 | 230 | 265 | 300 | 10 | 41.3 | | — | 38* | 38* | 38* | 38* | 38* | — | — | — | — | — |
| 110 | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | | — | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | — |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | | — | — | — | — | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | | — | — | — | — | — | — | — | — | — | 19 | 19 |
| | 132B5 | 230 | 265 | 300 | 10 | 41.3 | | — | 38* | 38* | 38* | 38* | 38* | — | — | — | — | — |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | | — | — | — | — | 28 | 28 | 28 | 28 | 28 | 28 | — |
| 130 | 90B5 | 130 | 165 | 200 | 8 | 27.3 | | — | — | — | — | — | — | — | — | — | — | 24 |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | | — | — | — | — | — | — | — | — | — | — | 19 |
| | 132B5 | 230 | 265 | 300 | 10 | 41.3 | | — | 38* | 38* | 38* | 38* | 38* | — | — | — | — | — |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | | — | — | — | — | 28 | 28 | 28 | 28 | 28 | 28 | — |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | | — | — | — | — | — | — | — | — | — | — | 24 |
| 150 | 160B5 | 250 | 300 | 350 | 12 | 45.3 | — | 42 | 42 | 42 | 42 | 42 | 42 | — | — | — | — | — |
| | 132B5 | 230 | 265 | 300 | 10 | 41.3 | | — | — | — | — | 38 | 38 | 38 | 38 | 38 | 38 | — |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | | — | — | — | — | — | — | — | 28 | 28 | 28 | 28 |

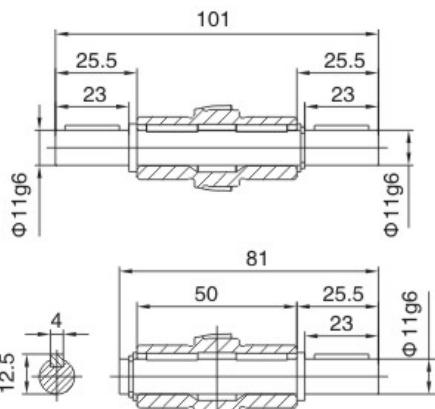
4.2 外型尺寸及輸出尺寸 Boundary dimension and output size

NMRV

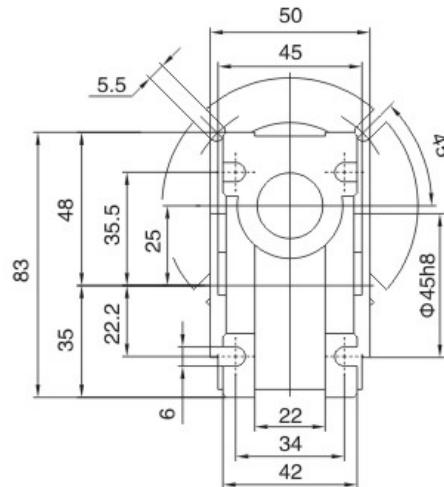
025

輸出軸
Output shaft

AB



AS

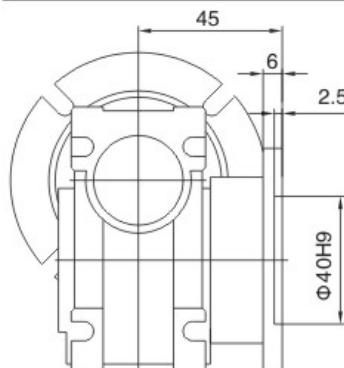
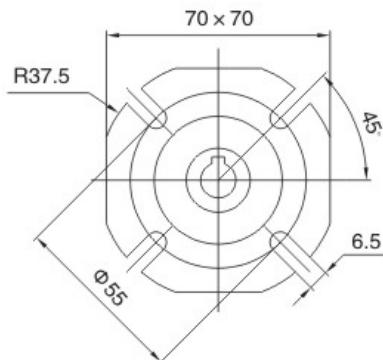


輸出孔
Output bore

輸出法蘭 Output flange

FA

重量: 0.7kg
Weight: 0.7kg



NMRV

VF

MOTOR

SWL

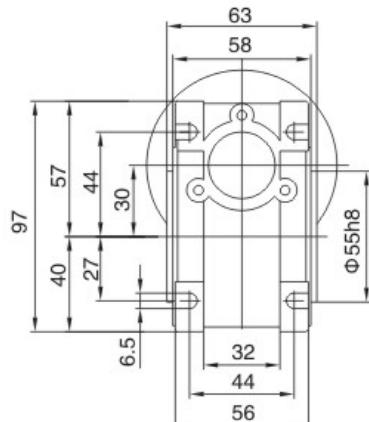
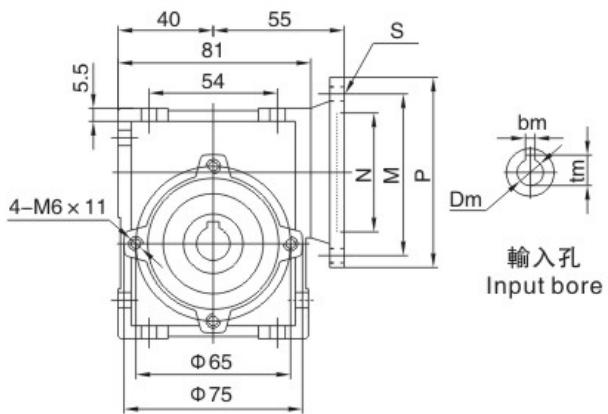
T



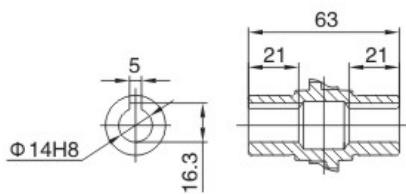
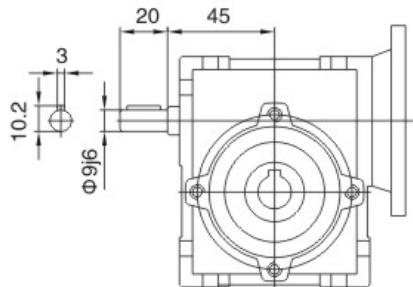
尺寸 Dimensions

NMRV

030



NMRV.VS



| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|----|--------|-----|----|----|----|----|----|----|----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 63B5 | Φ95 | Φ115 | Φ140 | 4 | 12.8 | Φ9 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | - | - | - | 23 |
| 63B14 | Φ60 | Φ75 | Φ90 | 4 | 12.8 | Φ6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | - | 20 |
| 56B5 | Φ80 | Φ100 | Φ120 | 3 | 10.4 | Φ7 | | | | | | | | | | | | | |
| 56B14 | Φ50 | Φ65 | Φ80 | 3 | 10.4 | Φ6 | | | | | | | | | | | | | |

重量: 1.3kg
Weight: 1.3kg



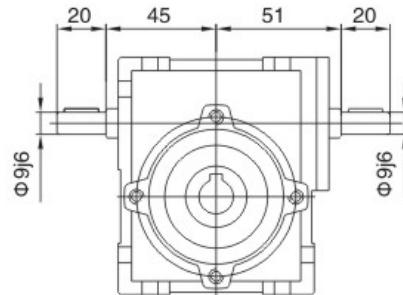
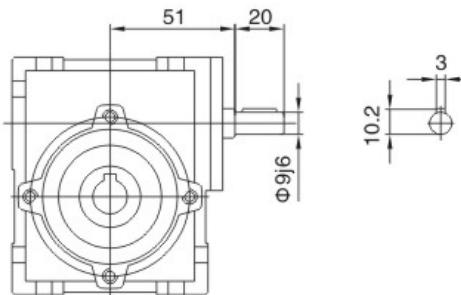
永坤電機
YONGKUN MOTOR

尺寸 Dimensions

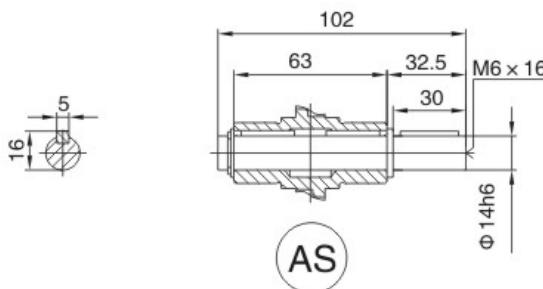
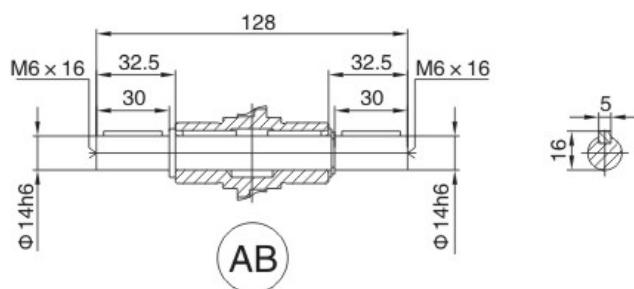
NRV

030

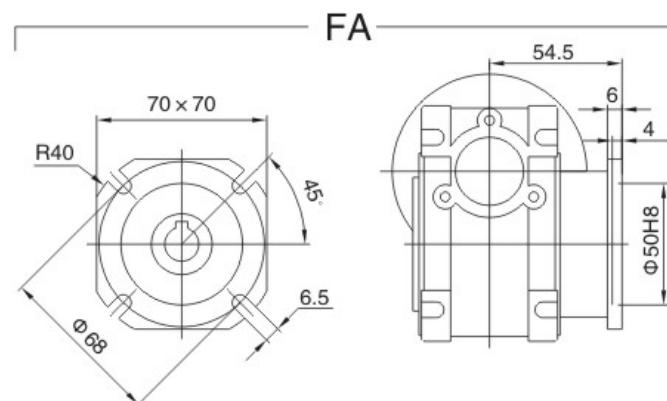
NRV.VS



輸出軸 Output shaft



輸出法蘭 Output flange



NMRV

VF

MOTOR

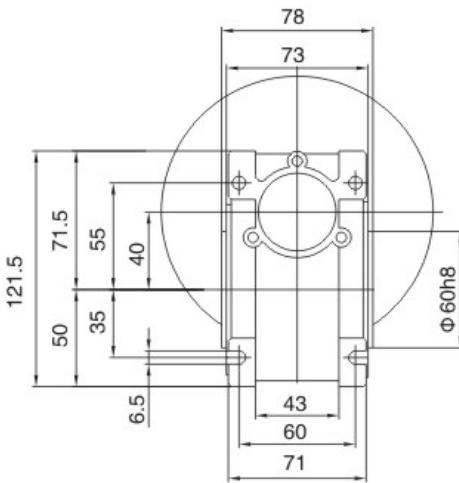
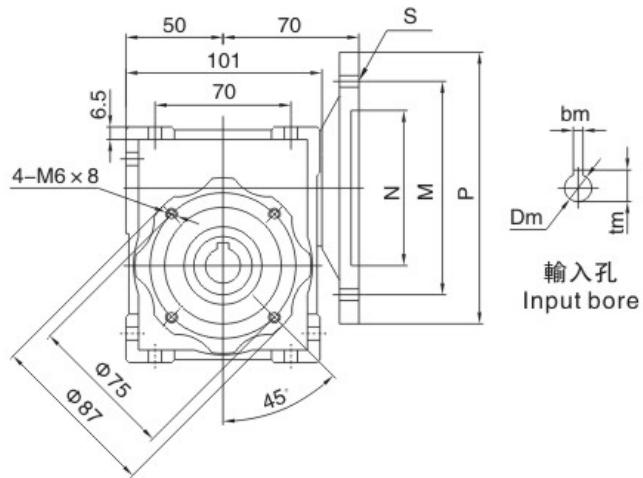
SWL T



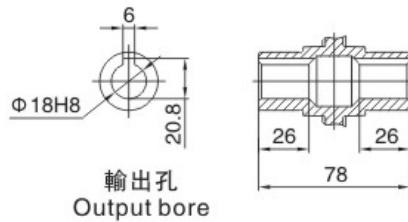
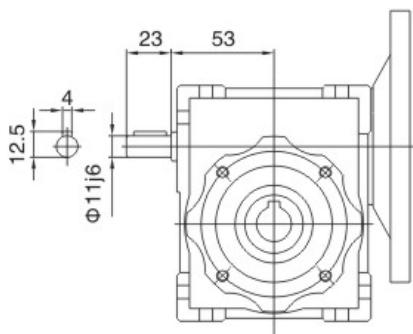
尺寸 Dimensions

NMRV

040



NMRV.VS



| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|----------------------------|-----------|------|------|----|------|-----|--------|-----|----|----|----|----|----|----|----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 71B5 | Ø110 | Ø130 | Ø160 | 5 | 16.3 | Ø11 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | — | — | — | — | 30 |
| 71B14 | Ø70 | Ø85 | Ø105 | 5 | 16.3 | Ø7 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 23 |
| 63B5 | Ø95 | Ø115 | Ø140 | 4 | 12.8 | Ø9 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 23 |
| 63B14 | Ø60 | Ø75 | Ø90 | 4 | 12.8 | Ø6 | — | — | — | — | — | — | — | — | 9 | 9 | 9 | 9 | 23 |
| 56B5 | Ø80 | Ø100 | Ø120 | 3 | 10.4 | Ø7 | — | — | — | — | — | — | — | — | 9 | 9 | 9 | 9 | 23 |
| 重量: 2.4kg Weight: 2.4kg | | | | | | | | | | | | | | | | | | | |



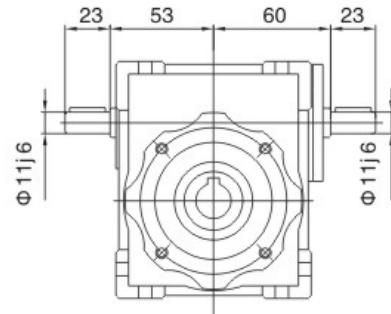
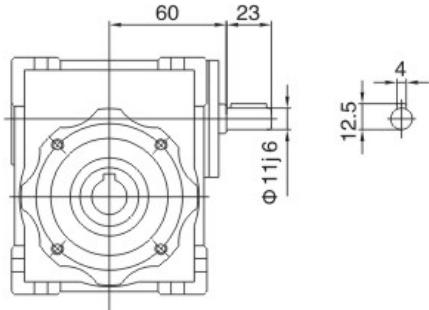
永坤電機
YONGKUN MOTOR

尺寸 Dimensions

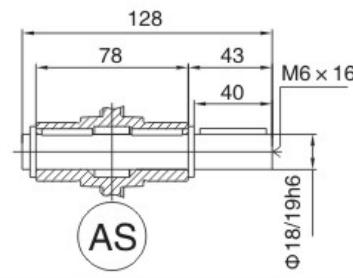
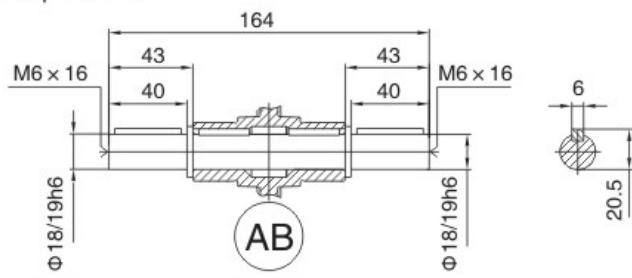
NRV

040

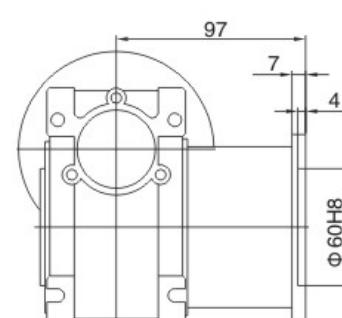
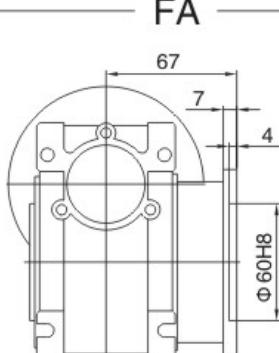
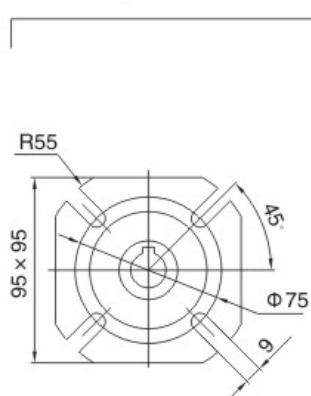
NRV.VS



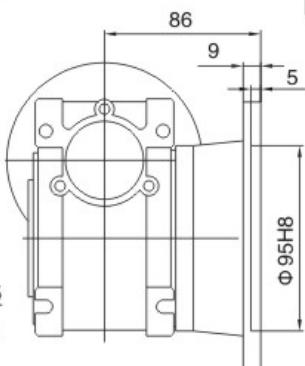
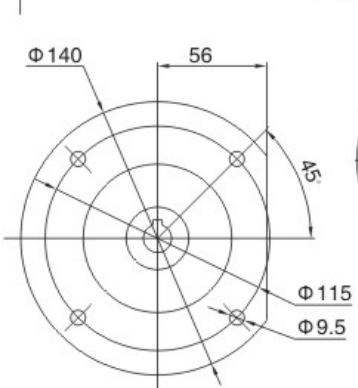
輸出軸 Output shaft



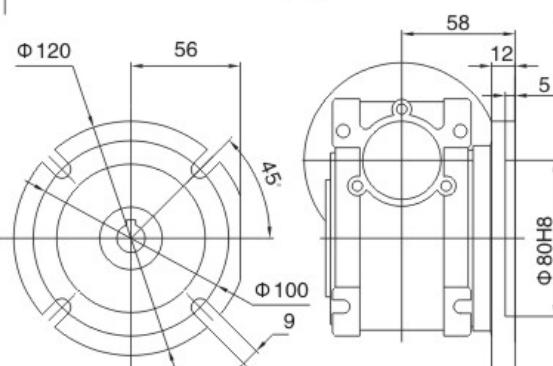
輸出法蘭 Output flange



FC



FD

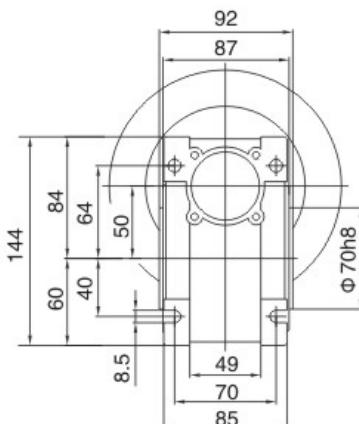
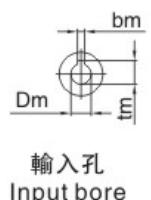
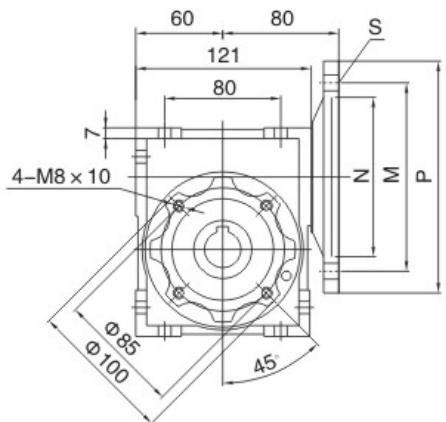




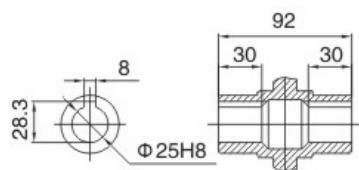
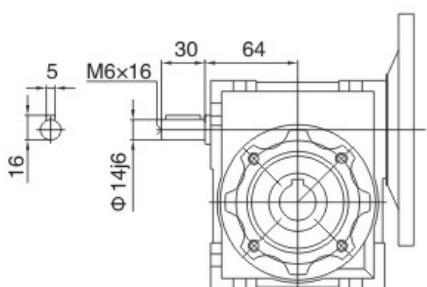
尺寸 Dimensions

NMRV

050



NMRV.VS



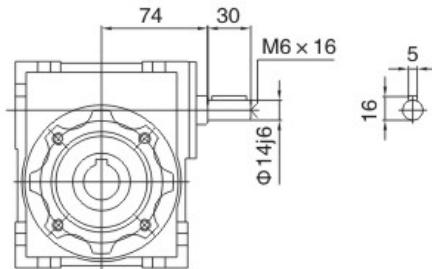
| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|----|----|----|----|----|----|----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 80B5 | Φ130 | Φ165 | Φ200 | 6 | 21.8 | Φ11 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | - | - | - | - | - | 40 |
| 80B14 | Φ80 | Φ100 | Φ120 | 6 | 21.8 | Φ7 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | 30 |
| 71B5 | Φ110 | Φ130 | Φ160 | 5 | 16.3 | Φ11 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | 23 |
| 71B14 | Φ70 | Φ85 | Φ105 | 5 | 16.3 | Φ7 | - | - | - | - | - | - | - | 11 | 11 | 11 | 11 | - | 23 |
| 63B5 | Φ96 | Φ115 | Φ140 | 4 | 12.8 | Φ9 | - | - | - | - | - | - | - | 11 | 11 | 11 | 11 | - | 23 |

重量: 3.6kg
Weight: 3.6kg

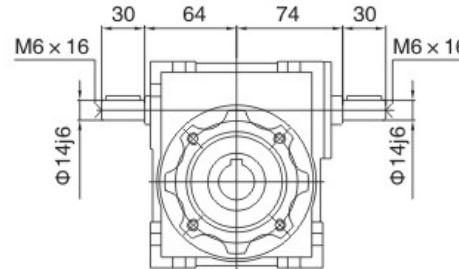


尺寸 Dimensions

NRV

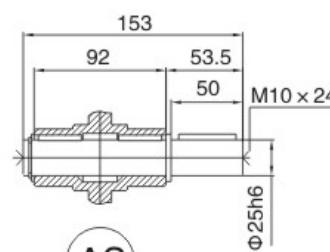
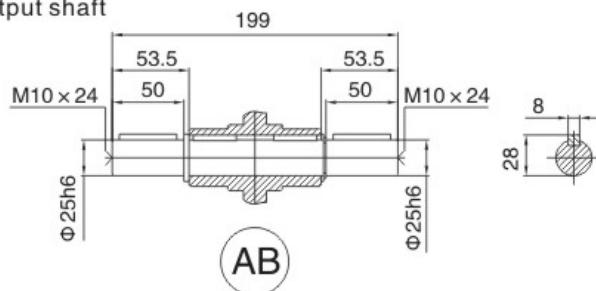


NRV.VS

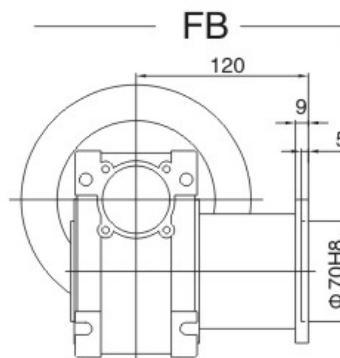
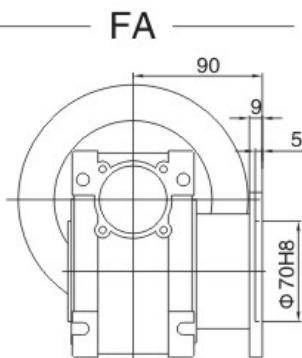
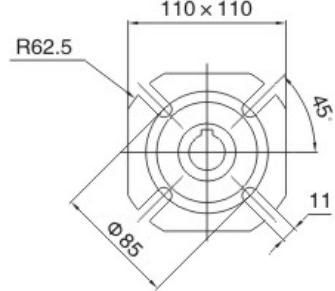


050

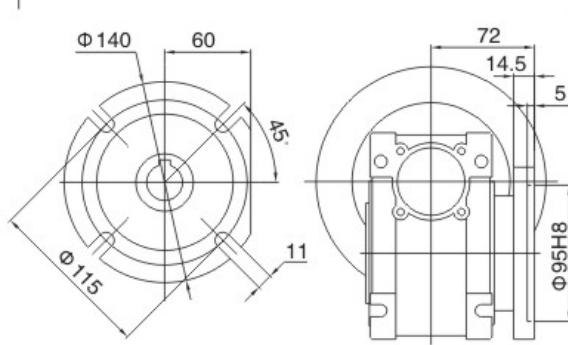
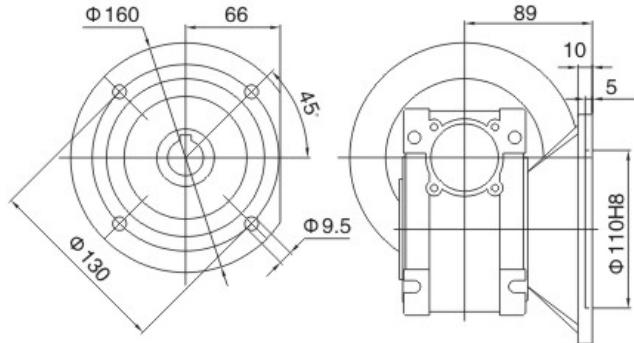
輸出軸 Output shaft



輸出法蘭 Output flange



FC



NMRV

VF

MOTOR

SWL

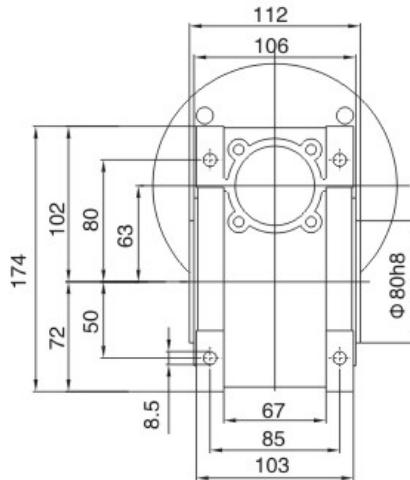
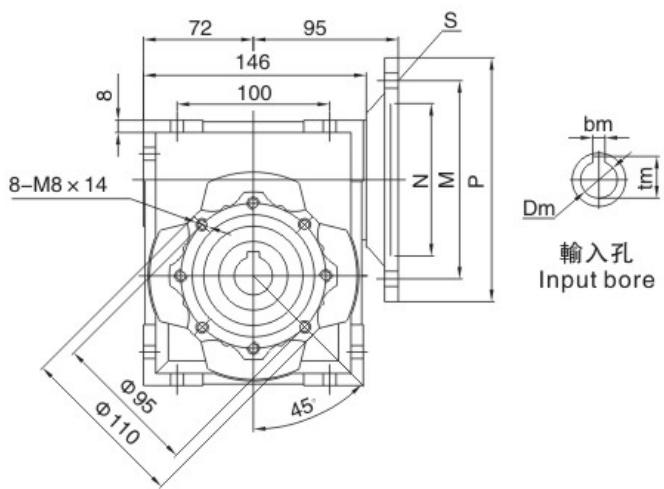
T



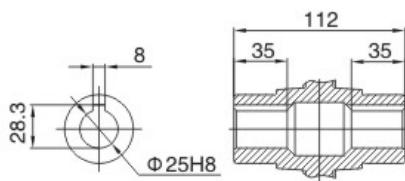
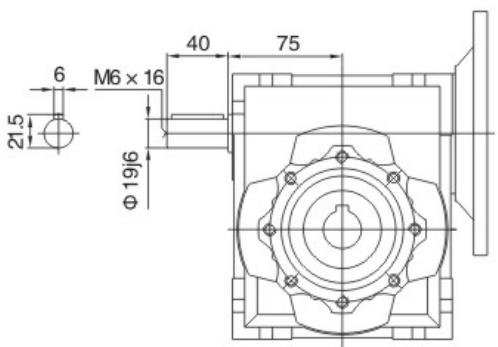
尺寸 Dimensions

NMRV

063



NMRV.VS



輸出孔
Output bore

| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|----|----|----|----|----|----|----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 90B5 | Φ130 | Φ165 | Φ200 | 8 | 27.3 | Φ11 | | | | | | | | | | | | | 50 |
| 90B14 | Φ95 | Φ115 | Φ140 | 8 | 27.3 | Φ9 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - | - | - | 40 |
| 80B5 | Φ130 | Φ165 | Φ200 | 6 | 21.8 | Φ11 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | - | 30 |
| 80B14 | Φ80 | Φ100 | Φ120 | 6 | 21.8 | Φ7 | | | | | | | | | | | | | 25 |
| 71B5 | Φ110 | Φ130 | Φ160 | 5 | 16.3 | Φ11 | - | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 | 20 |
| 71B14 | Φ70 | Φ85 | Φ105 | 5 | 16.3 | Φ7 | | | | | | | | | | | | | 15 |

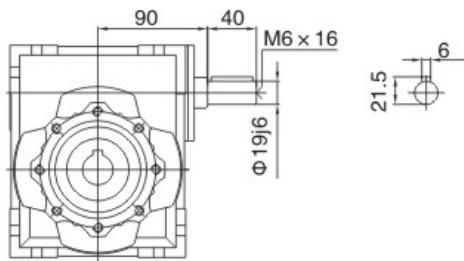
重量: 6.3kg
Weight: 6.3kg



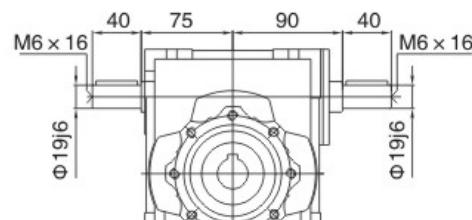
永坤電機
YONGKUN MOTOR

尺寸 Dimensions

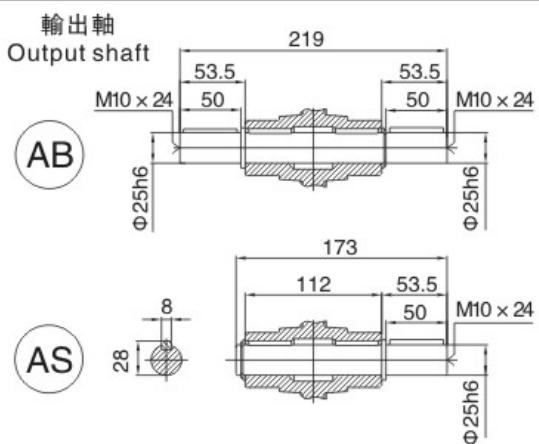
NRV



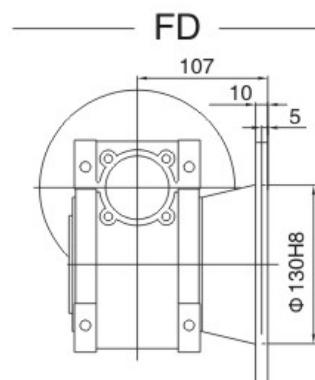
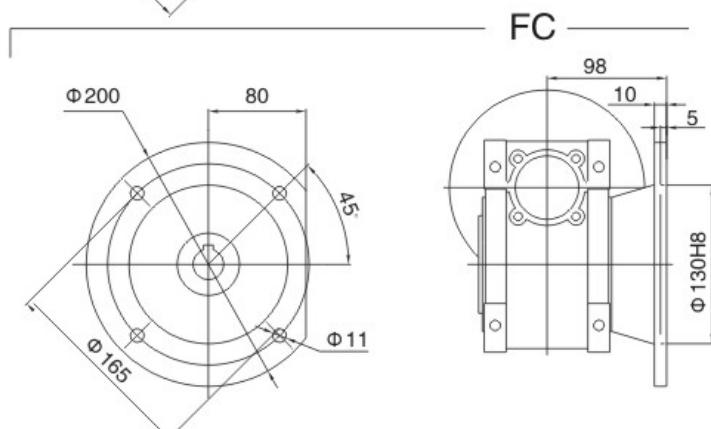
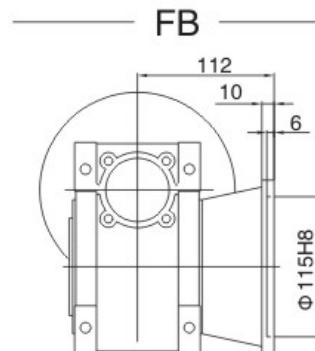
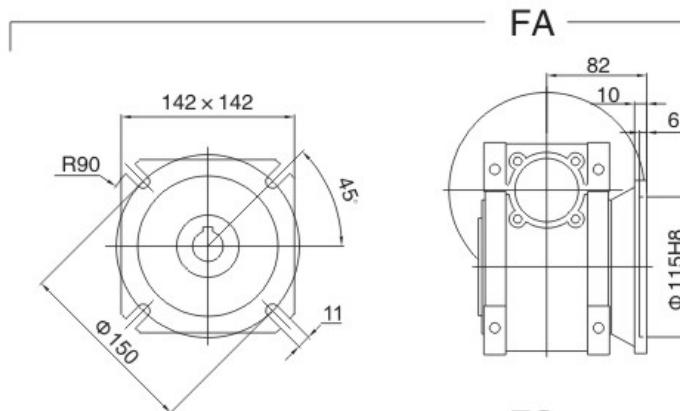
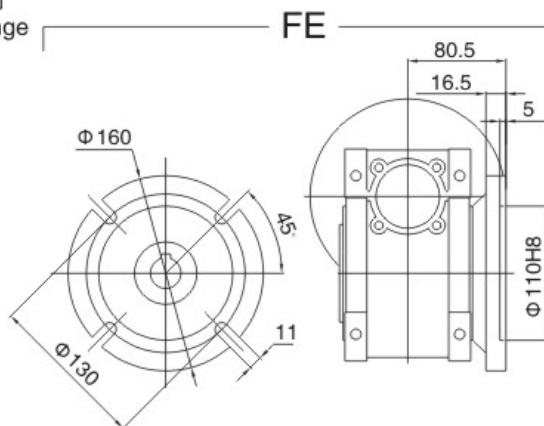
NRV.VS



063



輸出法蘭
Output flange



NMRV

VF

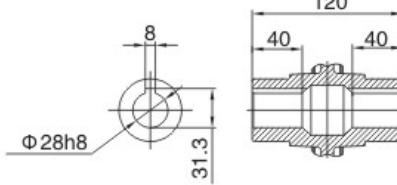
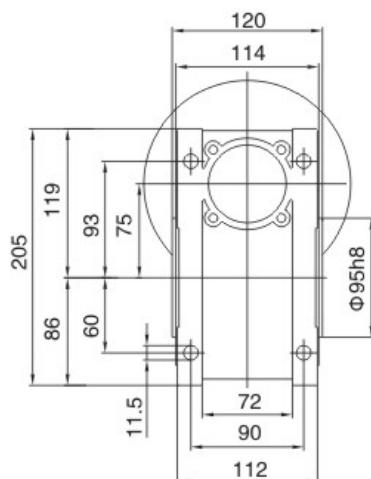
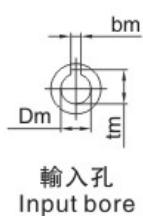
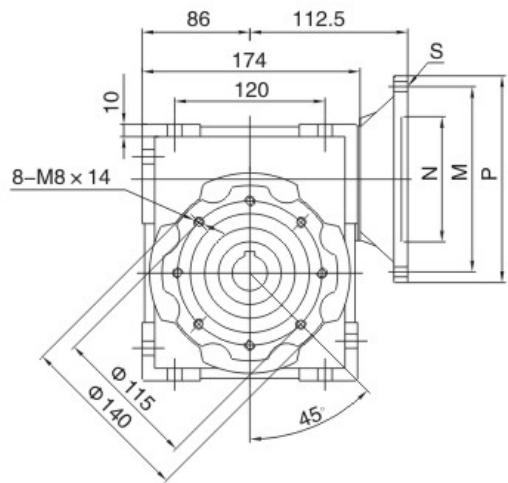
MOTOR

SWL T

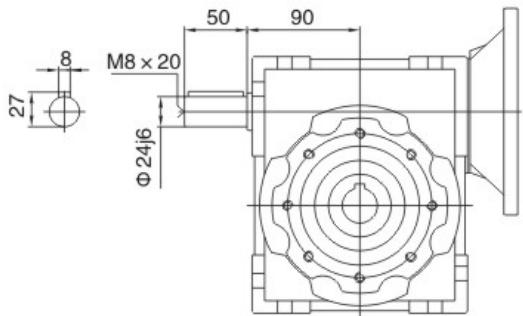


尺寸 Dimensions

NMRV



NMRV.VS



| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|----|----|----|----|----|----|----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 100/112B5 | Φ180 | Φ215 | Φ250 | 8 | 31.3 | Φ15 | - | 28 | 28 | 28 | - | - | - | - | - | - | - | - | 60 |
| 100/112B14 | Φ110 | Φ130 | Φ160 | 8 | 31.3 | Φ9 | - | 24 | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - | - | 50 |
| 90B5 | Φ130 | Φ165 | Φ200 | 8 | 27.3 | Φ11 | - | 24 | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - | - | 40 |
| 90B14 | Φ95 | Φ115 | Φ140 | 8 | 27.3 | Φ9 | - | - | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 40 |
| 80B5 | Φ130 | Φ165 | Φ200 | 6 | 21.8 | Φ11 | - | - | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 30 |
| 80B14 | Φ80 | Φ100 | Φ120 | 6 | 21.8 | Φ7 | - | - | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 30 |
| 71B5 | Φ110 | Φ130 | Φ160 | 5 | 16.3 | Φ11 | - | - | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 30 |

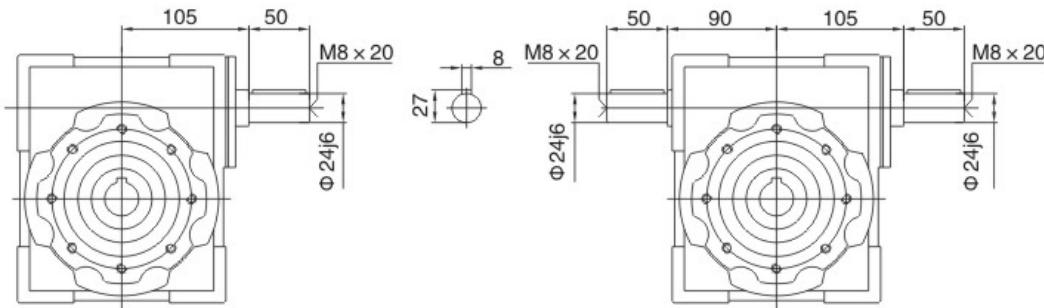
重量: 9kg
Weight: 9kg

尺寸 Dimensions

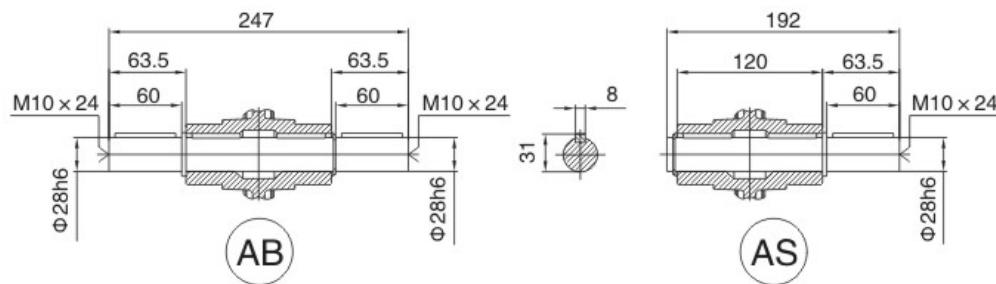
NRV

075

NRV.VS



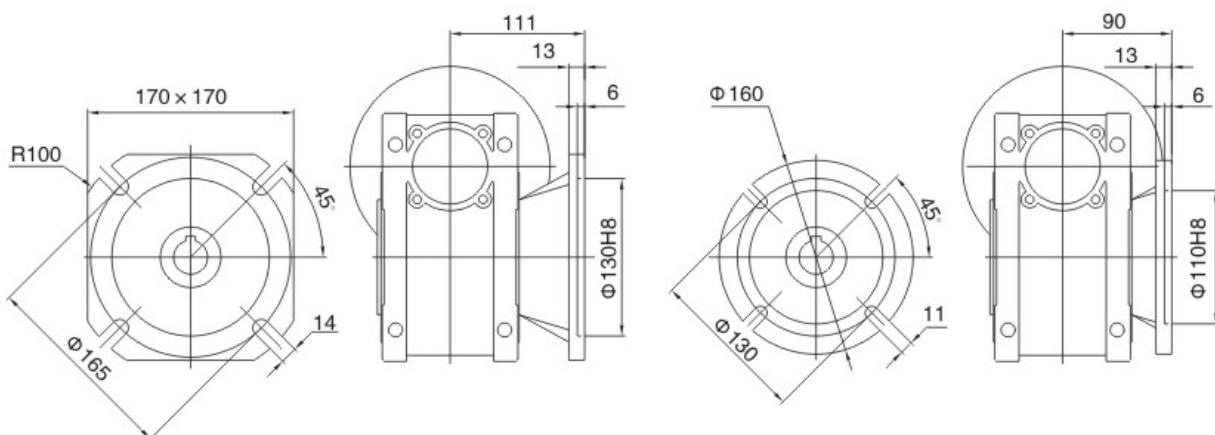
輸出軸 Output shaft



輸出法蘭 Output flange

FA

FB

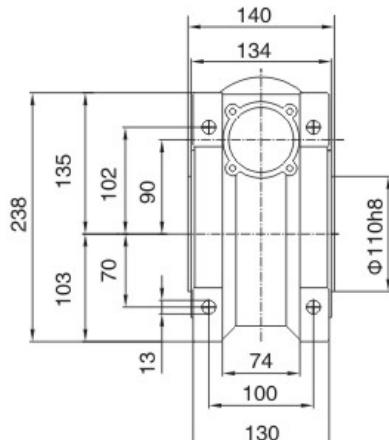
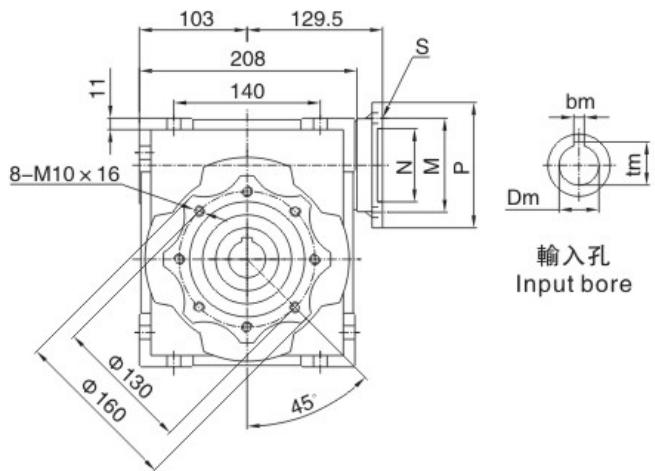




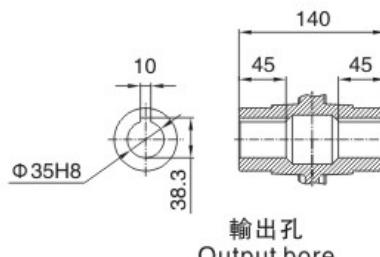
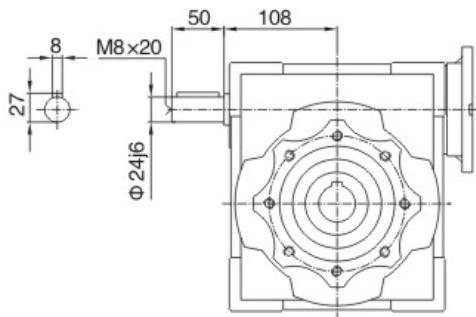
尺寸 Dimensions

NMRV

090



NMRV.VS



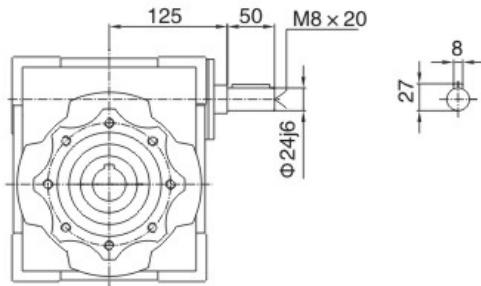
| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|----|----|----|----|----|----|----|----|----|-----|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| 100/112B5 | Φ180 | Φ215 | Φ250 | 8 | 31.3 | Φ15 | | | | | | | | | | | | |
| 100/112B14 | Φ110 | Φ130 | Φ160 | 8 | 31.3 | Φ9 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | - | - | - | - | 60 |
| 90B5 | Φ130 | Φ165 | Φ200 | 8 | 27.3 | Φ11 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | - | - | 50 |
| 90B14 | Φ95 | Φ115 | Φ140 | 8 | 27.3 | Φ9 | | | | | | | | | | | | |
| 30B5 | Φ130 | Φ165 | Φ200 | 6 | 21.8 | Φ11 | - | - | - | - | - | - | 19 | 19 | 19 | 19 | 19 | 40 |
| 80B14 | Φ80 | Φ100 | Φ120 | 6 | 21.8 | Φ7 | | | | | | | | | | | | |

重量: 13kg
Weight: 13kg

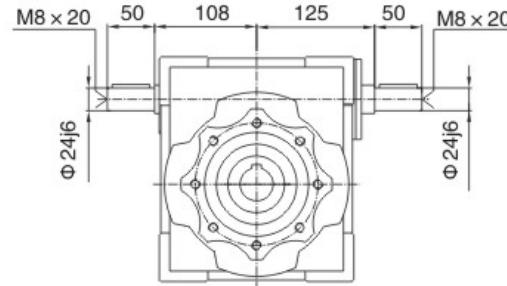


尺寸 Dimensions

NRV

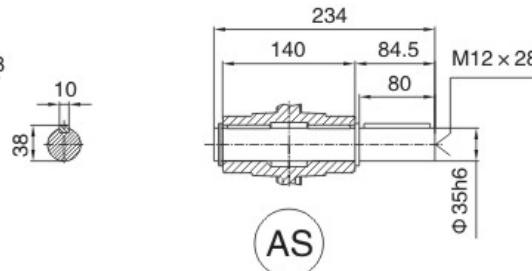
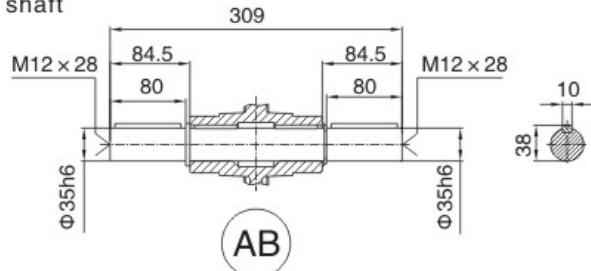


NRV.VS



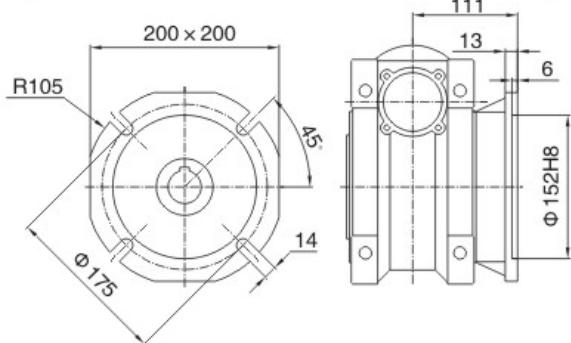
090

輸出軸 Output shaft

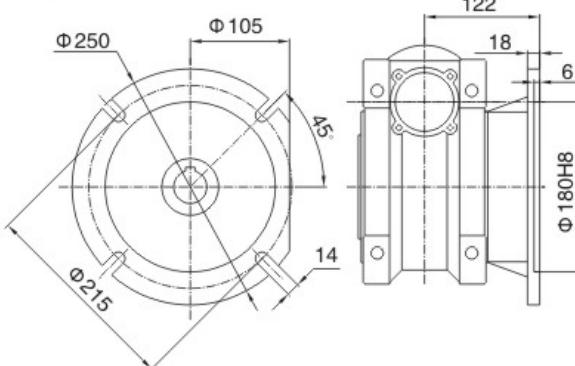


輸出法蘭 Output flange

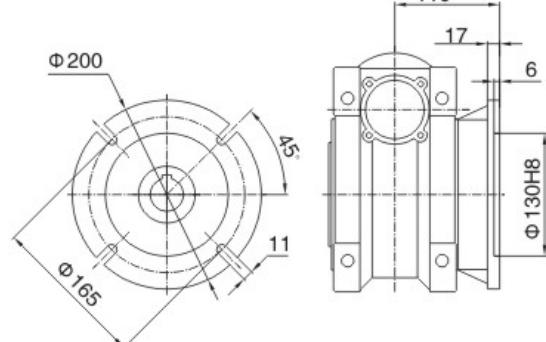
FA



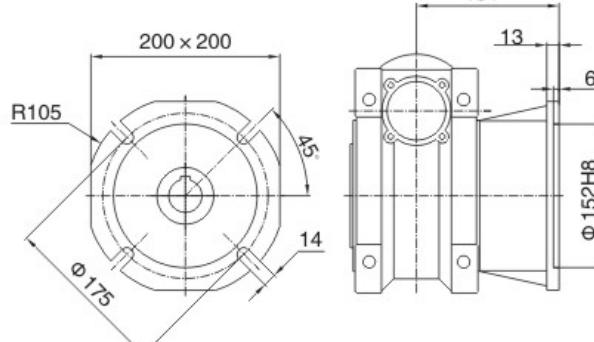
FB



FC



FD



NMRV

VF

MOTOR

SWL

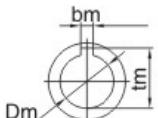
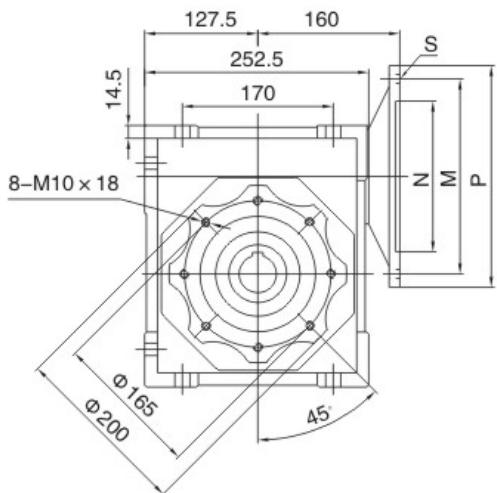
T



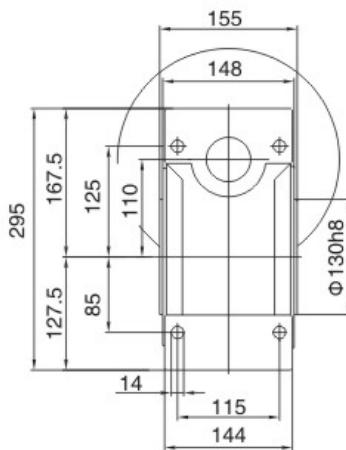
尺寸 Dimensions

NMRV

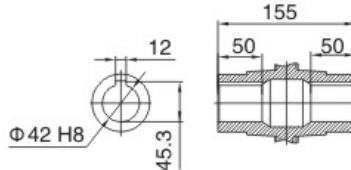
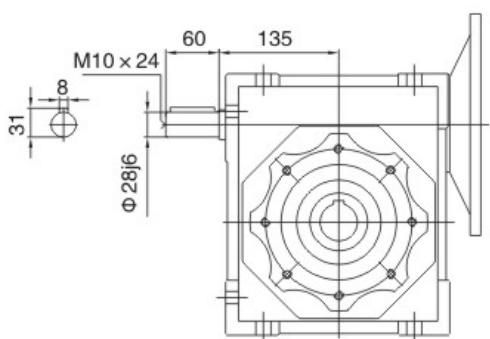
110



輸入孔
Input bore



NMRV.VS



輸出孔
Output bore

| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|-----|-----|-----|----|----|----|----|----|----|-----|---------|----|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 | |
| 132B5 | Φ230 | Φ265 | Φ300 | 10 | 41.3 | Φ15 | - | 38* | 38* | 38* | 38* | - | - | - | - | - | - | - | 80 | |
| 100/112B5 | Φ180 | Φ215 | Φ250 | 8 | 31.3 | Φ15 | - | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | - | - | 60 |
| 90B5 | Φ130 | Φ165 | Φ200 | 8 | 27.3 | Φ11 | - | - | - | - | - | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 50 | |
| 80B5 | Φ130 | Φ165 | Φ200 | 8 | 21.8 | Φ11 | - | - | - | - | - | - | - | - | - | - | 19 | 19 | 40 | |

重量: 40kg
Weight: 40kg

註釋: 薄鍵由DAIFUSI提供。
Note: (*)Low profile key supplied by DAIFUSI.



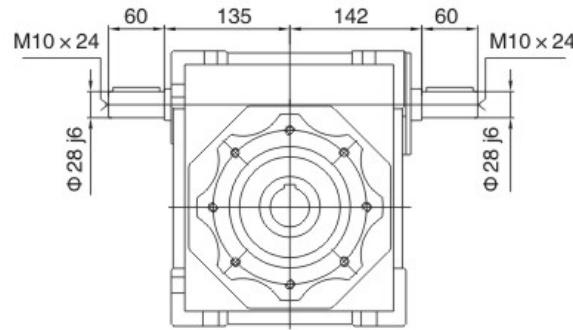
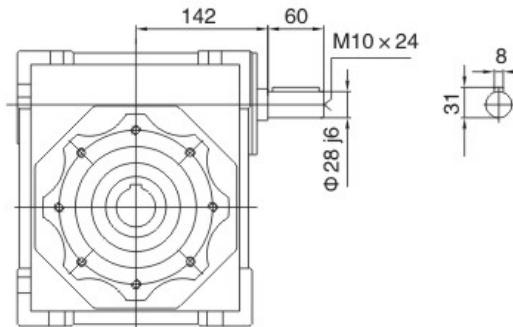
永坤電機
YONGKUN MOTOR

尺寸 Dimensions

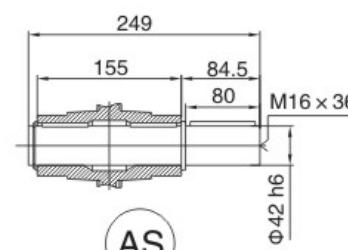
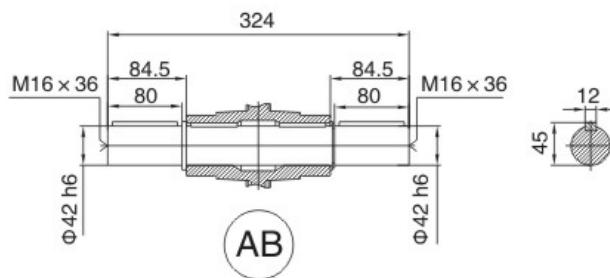
NRV

110

NRV.VS

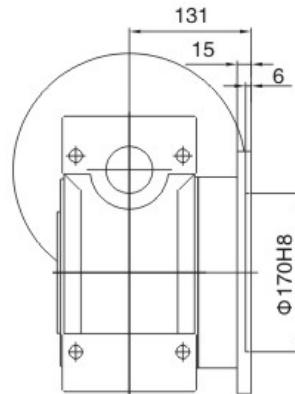
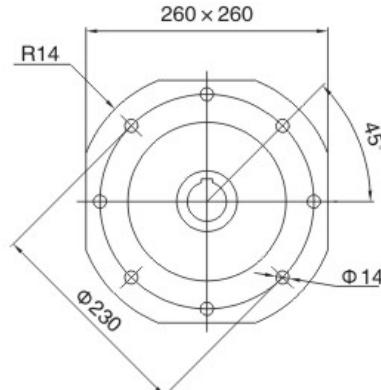


輸出軸 Output shaft



輸出法蘭 Output flange

FA

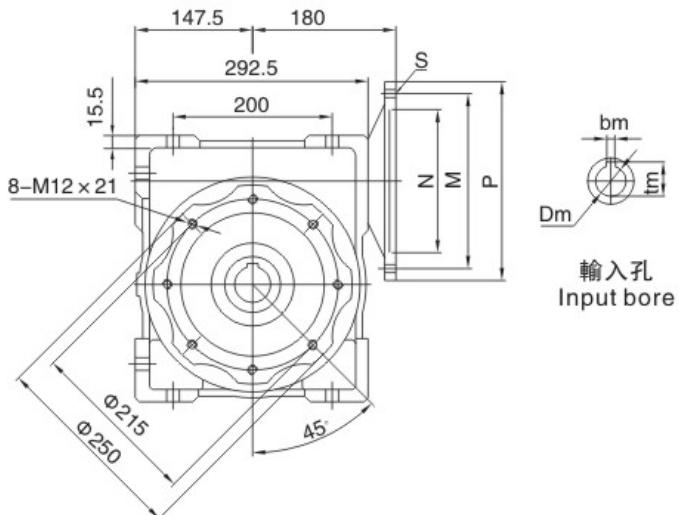




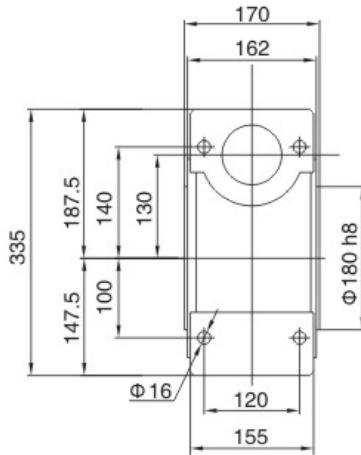
尺寸 Dimensions

NMRV

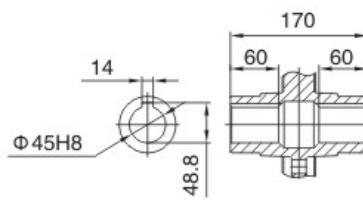
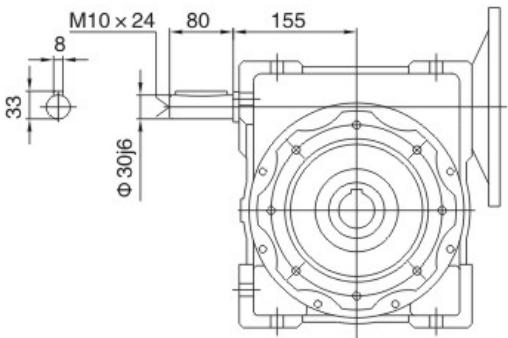
130



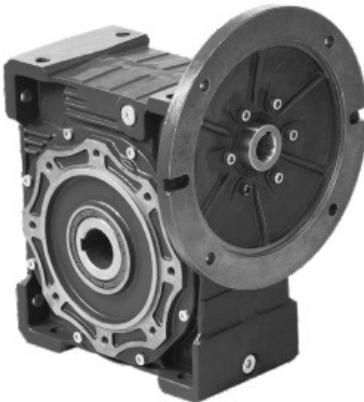
輸入孔
Input bore



NMRV.VS



輸出孔
Output bore



| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 132B5 | Φ230 | Φ265 | Φ300 | 10 | 41.3 | Φ15 | - | 38* | 38* | 38* | 38* | 38* | 38* | 38* | - | - | - | - | 80 |
| 100/112B5 | Φ180 | Φ215 | Φ250 | 8 | 31.3 | Φ15 | - | - | - | - | - | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 60 |
| 90B5 | Φ130 | Φ165 | Φ200 | 8 | 27.3 | Φ11 | - | - | - | - | - | - | - | - | - | - | 24 | 24 | 50 |

重量: 50kg
Weight: 50kg

註釋: 薄鍵由DAIFUSI提供。
Note: (*)Low profile key supplied by DAIFUSI.



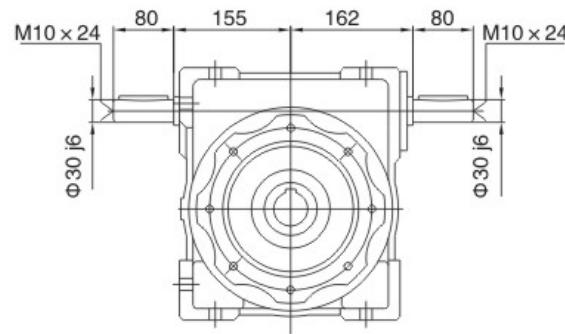
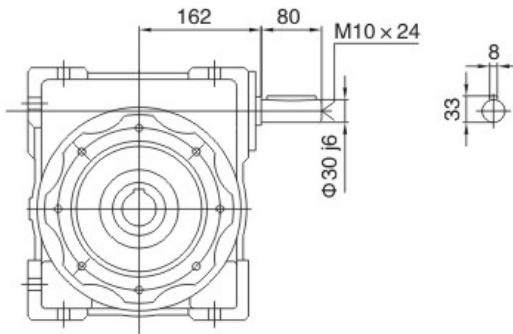
永坤電機
YONGKUN MOTOR

尺寸 Dimensions

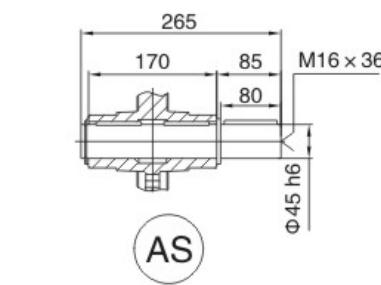
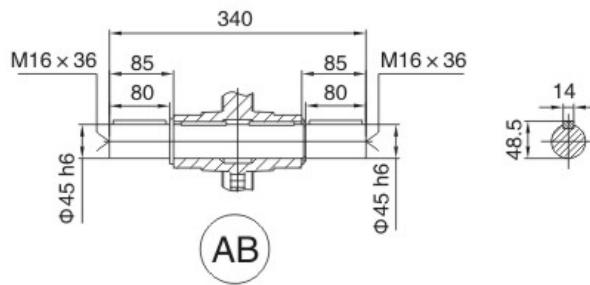
NRV

130

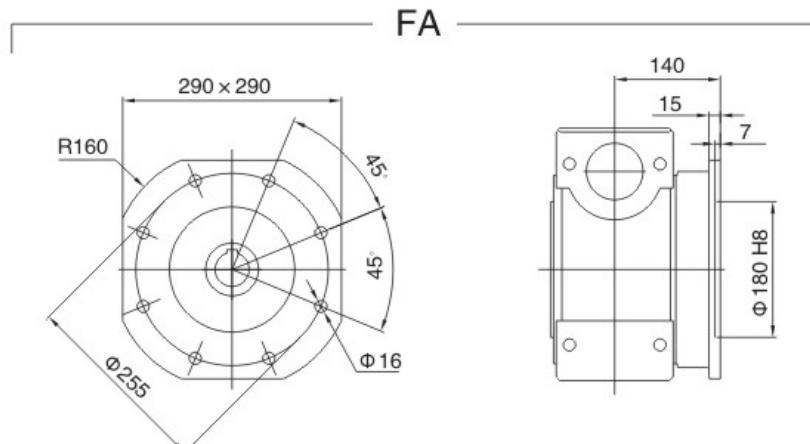
NRV.VS



輸出軸 Output shaft



輸出法蘭 Output flange

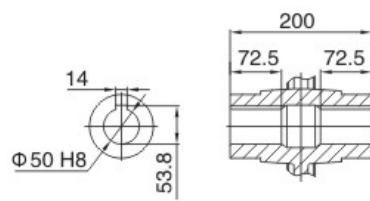
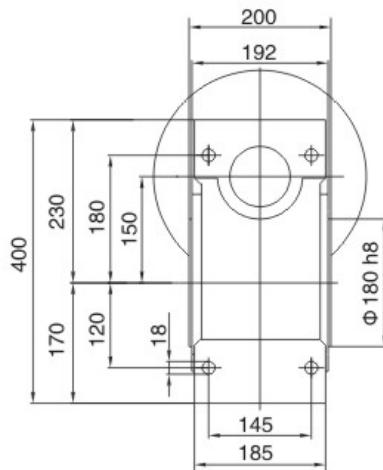
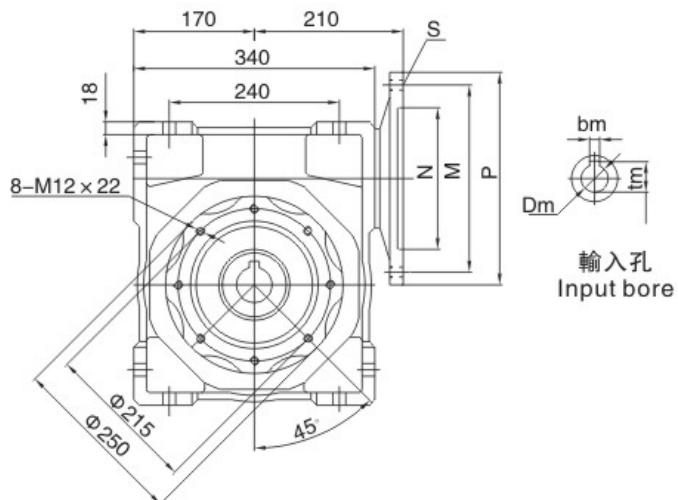




尺寸 Dimensions

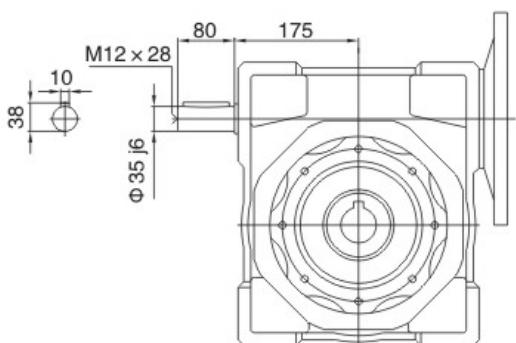
NMRV

150



輸出孔
Output bore

NMRV.VS



| 適用電機 PAM-IEC | N (H8) | M | P | bm | tm | S | Dm(H7) | | | | | | | | | | | | |
|-----------------|-----------|------|------|----|------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|---------|
| | | | | | | | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 | Depth 深 |
| 160B5 | Φ250 | Φ300 | Φ350 | 12 | 45.3 | Φ15 | - | 42* | 42* | 42* | 42* | 42* | 42* | 42* | 42* | - | - | - | 110 |
| 132B5 | Φ230 | Φ265 | Φ300 | 10 | 41.3 | Φ15 | - | - | - | - | - | 38 | 38 | 38 | 38 | 38 | - | - | 80 |
| 100/112B5 | Φ180 | Φ215 | Φ250 | 8 | 31.3 | Φ15 | - | - | - | - | - | - | - | - | - | 28 | 28 | 28 | 60 |

重量: 84kg
Weight: 84kg

註釋: 薄鍵由DAIFUSI提供。
Note: (*)Low profile key supplied by DAIFUSI.



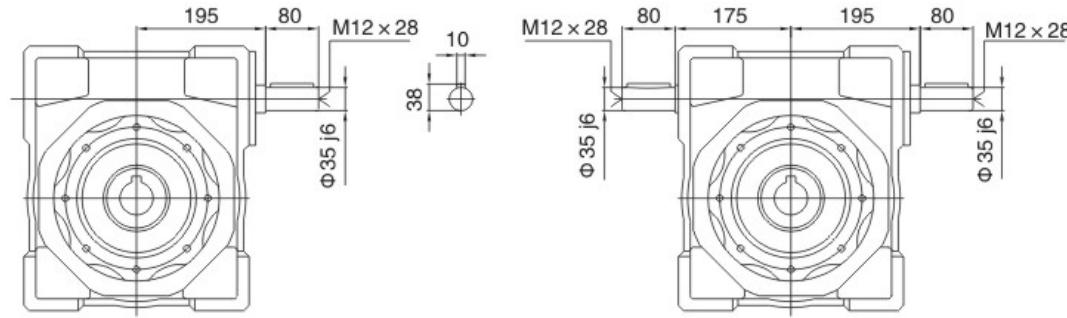
永坤電機
YONGKUN MOTOR

尺寸 Dimensions

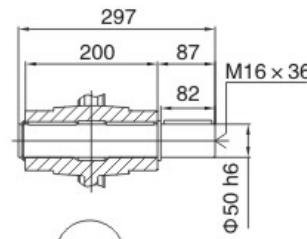
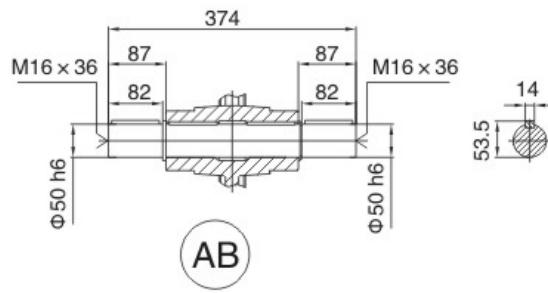
NRV

150

NRV.VS

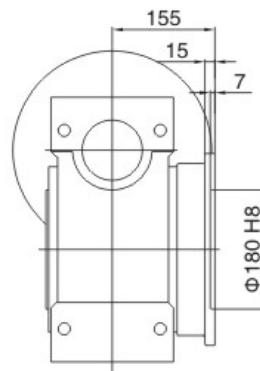
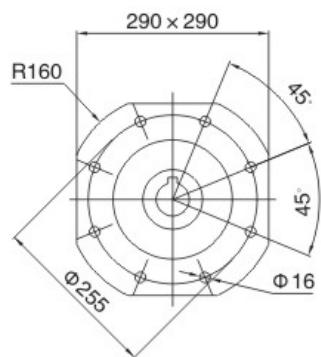


輸出軸 Output shaft



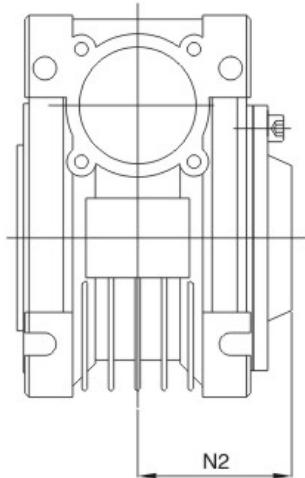
輸出法蘭 Output flange

FA



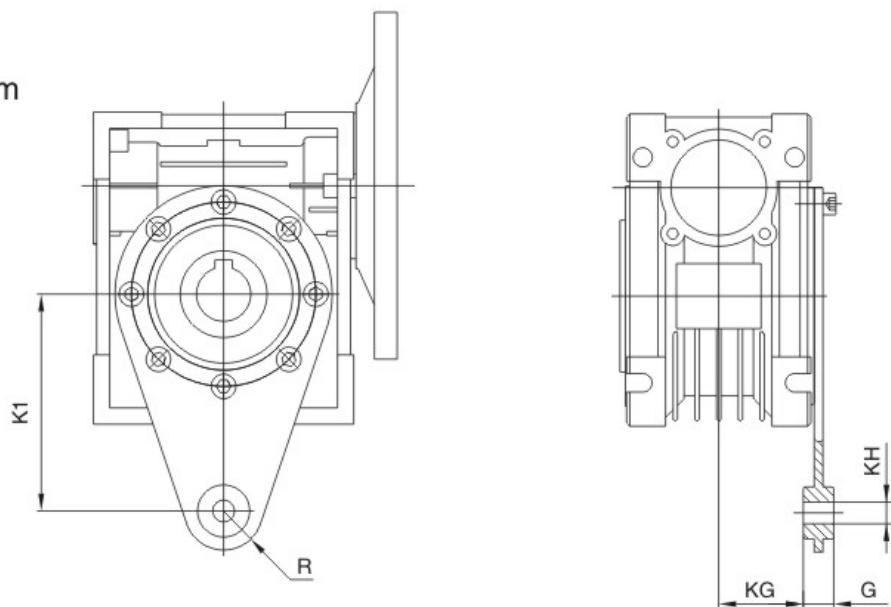


4.3 防護蓋 Cover



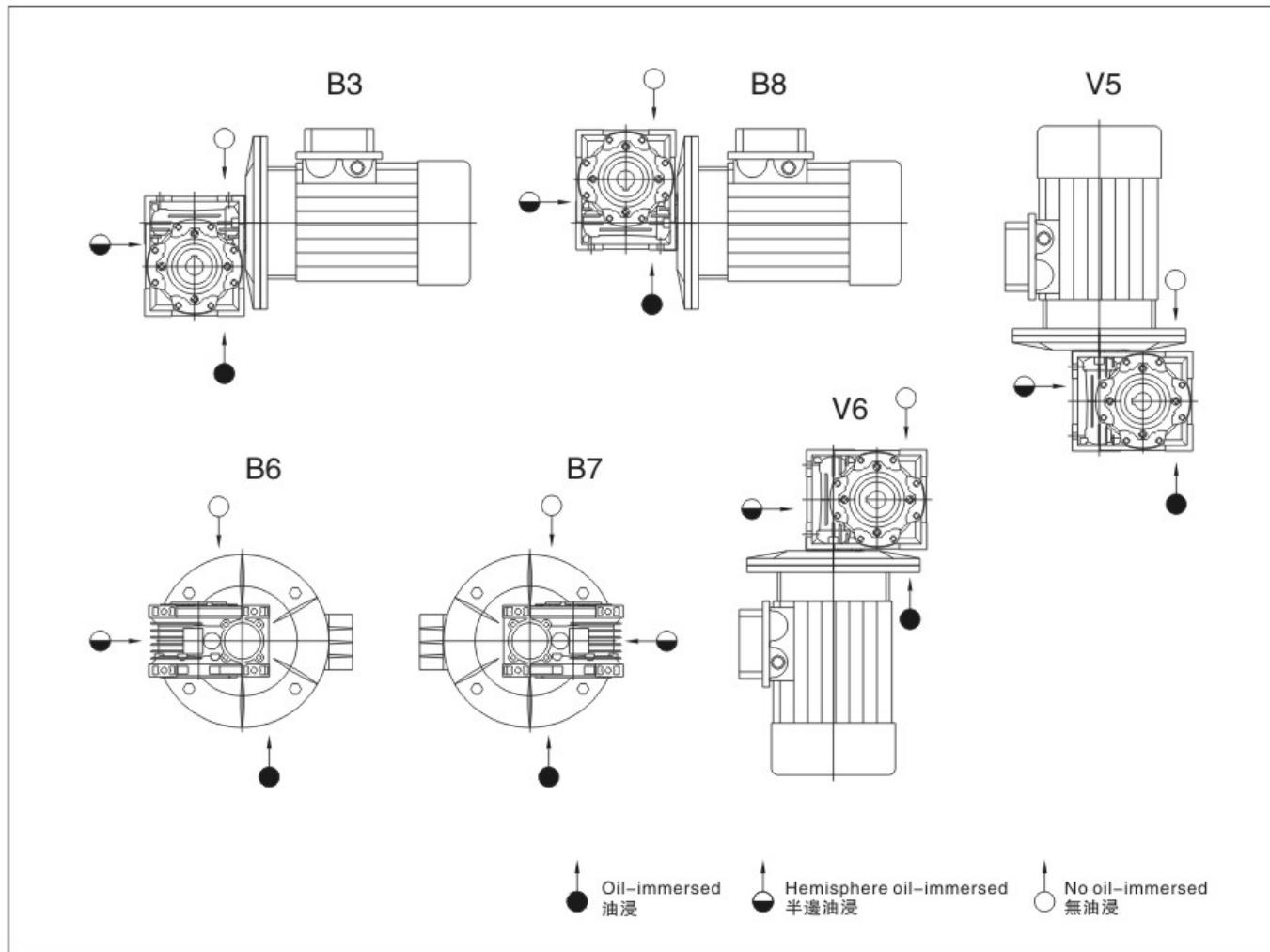
| | N2 |
|-----|-----|
| 030 | 42 |
| 040 | 50 |
| 050 | 58 |
| 063 | 69 |
| 075 | 71 |
| 090 | 86 |
| 105 | 94 |
| 110 | 94 |
| 130 | 102 |
| 150 | 113 |

4.4 轉矩臂 Torque arm

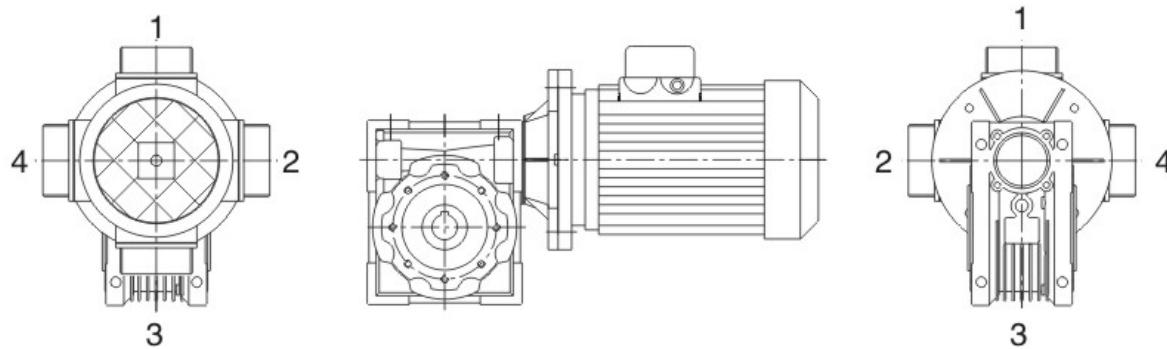


| NMRV | K1 | G | KG | KH | R |
|------|-----|----|------|----|----|
| 025 | 70 | 14 | 17.5 | 8 | 15 |
| 030 | 85 | 14 | 24 | 8 | 15 |
| 040 | 100 | 14 | 31.5 | 10 | 18 |
| 050 | 110 | 14 | 38.5 | 10 | 18 |
| 063 | 150 | 14 | 49 | 10 | 18 |
| 075 | 200 | 25 | 47.5 | 20 | 30 |
| 090 | 200 | 25 | 57.5 | 20 | 30 |
| 105 | 250 | 30 | 62 | 25 | 35 |
| 110 | 250 | 30 | 62 | 25 | 35 |
| 130 | 250 | 30 | 69 | 25 | 35 |
| 150 | 250 | 30 | 84 | 25 | 35 |

5. NMRV與電機的安裝型式 NMRV Mounting positions with motor

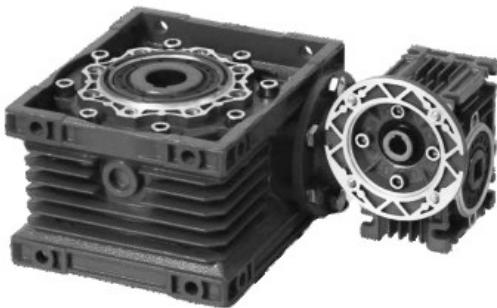


接線盒位置 POS.of terminal box





6. 雙級機型參數 Combine worm geared motor performance



| NRV/NMRV($n_1=1400\text{r/min}$) | | | | |
|------------------------------------|-------|------|------------------|---------------------|
| Model | M_2 | i | $P_1(\text{KW})$ | $n_2(\text{r/min})$ |
| NRV030/040 | 73 | 300 | 0.08 | 4.7 |
| | 65 | 400 | 0.06 | 3.5 |
| | 61 | 500 | 0.04 | 2.8 |
| | 73 | 600 | 0.04 | 2.3 |
| | 73 | 750 | 0.04 | 1.9 |
| | 73 | 900 | 0.03 | 1.6 |
| | 65 | 1200 | 0.02 | 1.2 |
| | 73 | 1500 | 0.02 | 0.9 |
| | 73 | 1800 | 0.02 | 0.8 |
| | 65 | 2400 | 0.01 | 0.58 |
| | 65 | 3200 | 0.01 | 0.4 |
| | 33 | 4000 | 0.01 | 0.4 |
| | 29 | 5000 | 0.01 | 0.28 |
| | | | | |
| NRV030/050 | 145 | 300 | 0.15 | 4.7 |
| | 124 | 400 | 0.1 | 3.5 |
| | 120 | 500 | 0.09 | 2.8 |
| | 145 | 600 | 0.08 | 2.3 |
| | 145 | 750 | 0.07 | 1.9 |
| | 145 | 900 | 0.06 | 1.6 |
| | 124 | 1200 | 0.04 | 1.2 |
| | 145 | 1500 | 0.04 | 0.93 |
| | 145 | 1800 | 0.04 | 0.78 |
| | 124 | 2400 | 0.03 | 0.6 |
| | 120 | 3000 | 0.02 | 0.5 |
| | 82 | 4000 | 0.02 | 0.35 |
| | 82 | 4800 | 0.02 | 0.29 |
| | | | | |
| NRV050/105 | 1100 | 300 | 0.9 | 4.7 |
| | 1030 | 400 | 0.7 | 3.5 |
| | 1000 | 500 | 0.6 | 2.8 |
| | 1030 | 600 | 0.5 | 2.3 |
| | 1100 | 750 | 0.4 | 1.9 |
| | 1100 | 900 | 0.4 | 1.6 |
| | 1030 | 1200 | 0.3 | 1.2 |
| | 1100 | 1500 | 0.3 | 0.93 |
| | 1100 | 1800 | 0.2 | 0.78 |
| | 1030 | 2400 | 0.2 | 0.58 |
| | 1000 | 3000 | 0.1 | 0.47 |
| | 780 | 4000 | 0.1 | 0.35 |
| | 710 | 5000 | 0.1 | 0.28 |
| | | | | |
| NRV050/110 | 1265 | 300 | 1.1 | 4.7 |
| | 1185 | 400 | 0.8 | 3.5 |
| | 1100 | 500 | 0.6 | 2.8 |
| | 1185 | 600 | 0.6 | 2.3 |
| | 1265 | 750 | 0.5 | 1.9 |
| | 1265 | 900 | 0.4 | 1.6 |
| | 1185 | 1200 | 0.3 | 1.2 |
| | 1265 | 1500 | 0.3 | 0.93 |
| | 1265 | 1800 | 0.3 | 0.78 |
| | 1185 | 2400 | 0.2 | 0.58 |
| | 1100 | 3000 | 0.1 | 0.47 |
| | 819 | 4000 | 0.1 | 0.35 |
| | 746 | 5000 | 0.1 | 0.28 |

NRV/NMRV($n_1=1400\text{r/min}$)

| Model | M_2 | i | $P_1(\text{KW})$ | $n_2(\text{r/min})$ | Model | M_2 | i | $P_1(\text{KW})$ | $n_2(\text{r/min})$ |
|------------|-------|------|------------------|---------------------|------------|-------|------|------------------|---------------------|
| NRV030/063 | 230 | 300 | 0.24 | 4.7 | NRV063/130 | 1760 | 300 | 1.5 | 4.7 |
| | 230 | 400 | 0.19 | 3.5 | | 1650 | 400 | 1.1 | 3.5 |
| | 216 | 500 | 0.15 | 2.8 | | 1550 | 500 | 0.9 | 2.8 |
| | 230 | 600 | 0.13 | 2.3 | | 1650 | 600 | 0.8 | 2.3 |
| | 216 | 750 | 0.11 | 1.9 | | 1760 | 750 | 0.7 | 1.9 |
| | 198 | 900 | 0.09 | 1.6 | | 1760 | 900 | 0.6 | 1.6 |
| | 230 | 1200 | 0.08 | 1.2 | | 1650 | 1200 | 0.4 | 1.2 |
| | 216 | 1500 | 0.06 | 0.93 | | 1760 | 1500 | 0.4 | 0.93 |
| | 198 | 1800 | 0.05 | 0.78 | | 1760 | 1800 | 0.3 | 0.78 |
| | 230 | 2400 | 0.05 | 0.58 | | 1650 | 2400 | 0.3 | 0.58 |
| | 216 | 3000 | 0.04 | 0.47 | | 1550 | 3000 | 0.2 | 0.47 |
| | 172 | 4000 | 0.03 | 0.35 | | 1220 | 4000 | 0.1 | 0.35 |
| | 150 | 5000 | 0.02 | 0.28 | | 1100 | 5000 | 0.1 | 0.28 |

| | | | | |
|------------|-----|------|------|------|
| NRV040/075 | 390 | 300 | 0.36 | 4.7 |
| | 360 | 400 | 0.27 | 3.5 |
| | 320 | 500 | 0.21 | 2.8 |
| | 390 | 600 | 0.19 | 2.3 |
| | 390 | 750 | 0.16 | 1.9 |
| | 390 | 900 | 0.14 | 1.6 |
| | 390 | 1200 | 0.11 | 1.2 |
| | 390 | 1500 | 0.1 | 0.93 |
| | 390 | 1800 | 0.09 | 0.78 |
| | 360 | 2400 | 0.07 | 0.58 |
| | 320 | 3000 | 0.05 | 0.47 |
| | 250 | 4000 | 0.04 | 0.35 |
| | 230 | 5000 | 0.03 | 0.28 |

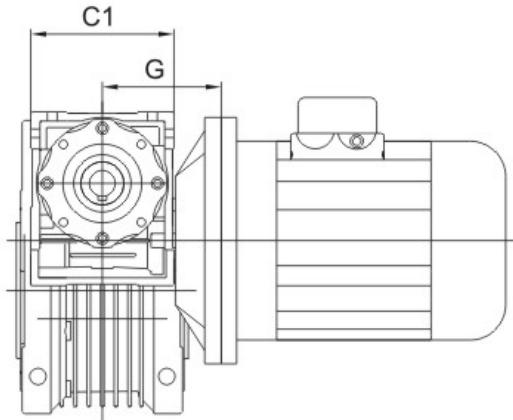
| | | | | |
|------------|------|------|-----|----|
| NRV040/090 | 610 | 300 | 0.6 | 14 |
| | 610 | 400 | 0.4 | 14 |
| | 560 | 500 | 0.3 | 14 |
| | 610 | 600 | 0.3 | 14 |
| | 560 | 750 | 0.2 | 14 |
| | 505 | 900 | 0.2 | 25 |
| | 610 | 1200 | 0.2 | 25 |
| | 560 | 1500 | 0.1 | 30 |
| | 505 | 1800 | 0.1 | 30 |
| | 610 | 2400 | 0.1 | 30 |
| | 5690 | 3000 | 0.1 | 30 |
| | 460 | 4000 | 0.1 | |
| | 410 | 5000 | 0.1 | |

| | | | | |
|------------|-------|------|-----|-----|
| NRV063/150 | 2340 | 150 | 3.4 | 9.3 |
| | 2340 | 200 | 2.7 | 7 |
| | 2050 | 250 | 1.9 | 5.6 |
| | 2340 | 300 | 1.9 | 4.7 |
| | 2670 | 400 | 1.8 | 3.5 |
| | 2330 | 500 | 1.4 | 2.8 |
| | 2670 | 600 | 1.3 | 2.3 |
| | 2330 | 750 | 1.0 | 1.9 |
| | 2100 | 900 | 0.7 | 1.6 |
| | 2670 | 1200 | 0.7 | 1.2 |
| | 2100 | 1800 | 0.4 | 0.8 |
| | 2670 | 2400 | 0.5 | 0.6 |
| | 2330 | 3000 | 0.3 | 0.5 |
| | 1880 | 4000 | 0.2 | 0.4 |
| | 16450 | 5000 | 0.2 | 0.3 |

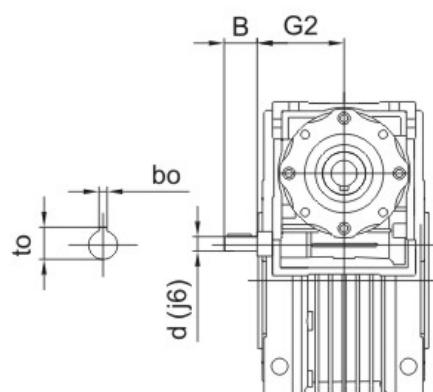
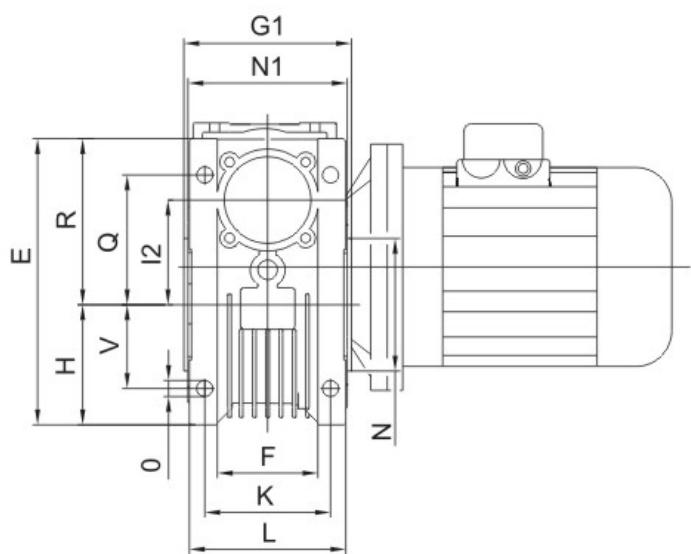
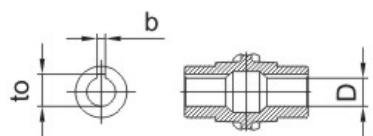
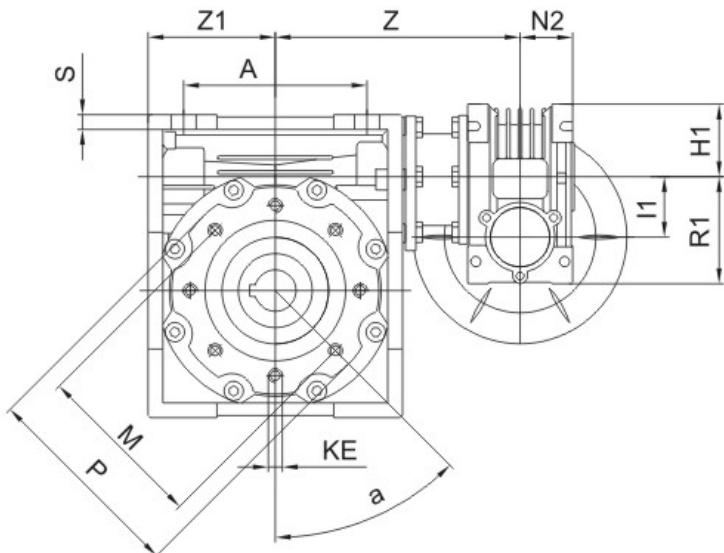




7. 雙級機型尺寸 Combine worm geared motor size



NMRV+NMRV



NRV+NMRV



| NMRV + NMRV | 尺寸 Dimensions | | | | | | | | | | | | | | | | | | |
|-------------------|---------------|----|-----|-------|--------|-------|----|----|-----|----|-------|----|----|----|-----|-----|-----|-------|-----|
| | A | B | C1 | D(H8) | d(j6) | E | F | G | G1 | G2 | H | H1 | I | I1 | I2 | L | M | N(H3) | N1 |
| 025-030 | 54 | - | 70 | 14 | - | 97 | 32 | 45 | 63 | - | 40 | 35 | - | 25 | 30 | 56 | 65 | 55 | 58 |
| 025-040 | 70 | - | 70 | 18 | - | 121.5 | 43 | 45 | 78 | - | 50 | 35 | - | 25 | 40 | 71 | 75 | 60 | 73 |
| 030-040 | 70 | 20 | 80 | 18 | 9 | 121.5 | 43 | 55 | 78 | 51 | 50 | 40 | 10 | 30 | 40 | 71 | 75 | 60 | 73 |
| 030-050 | 80 | 20 | 80 | 25 | 9 | 144 | 49 | 55 | 92 | 51 | 60 | 40 | 20 | 30 | 50 | 85 | 85 | 70 | 87 |
| 030-063 | 100 | 20 | 80 | 25 | 9 | 174 | 67 | 55 | 112 | 51 | 72 | 40 | 33 | 30 | 63 | 103 | 95 | 80 | 106 |
| 040-075 | 120 | 23 | 100 | 28 | 11 | 205 | 72 | 70 | 130 | 60 | 86 | 50 | 35 | 40 | 75 | 112 | 115 | 95 | 114 |
| 040-090 | 140 | 23 | 100 | 35 | 11 | 238 | 74 | 70 | 140 | 60 | 103 | 50 | 50 | 40 | 90 | 130 | 130 | 110 | 134 |
| 050-105 | 170 | 30 | 120 | 42 | 14 | 295 | - | 80 | 155 | 74 | 127.5 | 60 | 60 | 50 | 110 | 144 | 165 | 130 | 148 |
| 050-110 | 170 | 30 | 120 | 42 | 14 | 295 | - | 80 | 155 | 74 | 127.5 | 60 | 60 | 50 | 110 | 144 | 165 | 130 | 148 |
| 063-130 | 200 | 40 | 144 | 45 | 19 | 335 | - | 95 | 170 | 90 | 147.5 | 72 | 67 | 63 | 130 | 155 | 215 | 180 | 162 |
| 063-150 | 240 | 40 | 144 | 50 | 19 | 400 | - | 95 | 200 | 90 | 170 | 72 | 67 | 63 | 150 | 185 | 215 | 180 | 192 |

| NMRV + NMRV | 尺寸 Dimensions | | | | | | | | | | | | | | | | | |
|-------------------|---------------|------|-----|-----|-------|------|------|-----|-------|-------|-----|--------|-----|----|------|----|------|----|
| | N2 | O | P | Q | R | R1 | S | V | Z | Z1 | K | KE | a | b | t | bo | to | F |
| 025-030 | 22.5 | 6.5 | 75 | 44 | 57 | 48 | 5.5 | 27 | 100 | 40 | 44 | M6×11 | 0° | 5 | 16.3 | - | - | - |
| 025-040 | 22.5 | 6.5 | 87 | 55 | 71.5 | 48 | 6.5 | 35 | 115 | 50 | 60 | M6×8 | 45° | 6 | 20.8 | - | - | - |
| 030-040 | 29 | 6.5 | 87 | 55 | 71.5 | 57 | 6.5 | 35 | 122 | 50 | 60 | M6×8 | 45° | 6 | 20.8 | 3 | 10.2 | - |
| 030-050 | 29 | 8.5 | 100 | 64 | 84 | 57 | 7 | 40 | 132 | 60 | 70 | M8×10 | 45° | 8 | 28.3 | 3 | 10.2 | - |
| 030-063 | 29 | 8.5 | 110 | 80 | 102 | 57 | 8 | 50 | 145 | 72 | 85 | M8×14 | 45° | 8 | 28.3 | 3 | 10.2 | - |
| 040-075 | 36.5 | 11.5 | 140 | 93 | 119 | 71.5 | 10 | 60 | 167.5 | 86 | 90 | M8×14 | 45° | 8 | 31.3 | 4 | 12.5 | - |
| 040-090 | 36.5 | 13 | 160 | 102 | 135 | 71.5 | 11 | 70 | 184.5 | 103 | 100 | M10×18 | 45° | 10 | 38.3 | 4 | 12.5 | - |
| 050-105 | 43.5 | 14 | 200 | 125 | 167.5 | 84 | 14.5 | 85 | 226 | 127.5 | 115 | M10×18 | 45° | 12 | 45.3 | 5 | 16 | M6 |
| 050-110 | 43.5 | 14 | 200 | 125 | 167.5 | 84 | 14.5 | 85 | 226 | 127.5 | 115 | M10×18 | 45° | 12 | 45.3 | 5 | 16 | M6 |
| 063-130 | 53 | 16 | 250 | 140 | 187.5 | 102 | 15.5 | 100 | 245 | 147.5 | 120 | M12×21 | 45° | 14 | 48.8 | 6 | 21.5 | M6 |
| 063-150 | 53 | 18 | 250 | 180 | 230 | 102 | 18 | 120 | 275 | 170 | 145 | M12×21 | 45° | 14 | 53.8 | 6 | 21.5 | M6 |

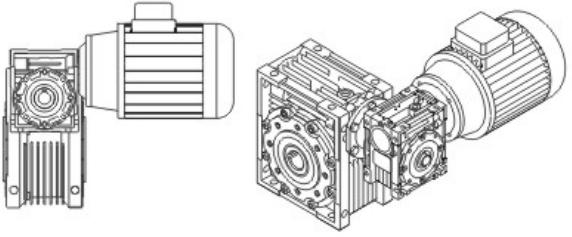
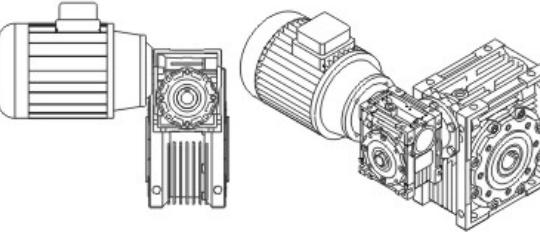
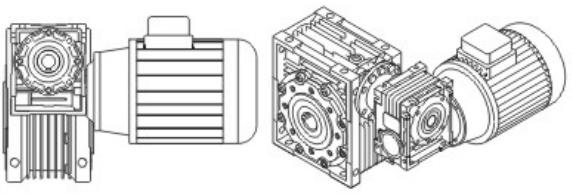
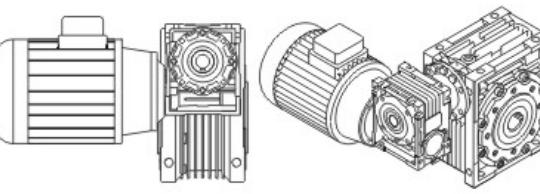
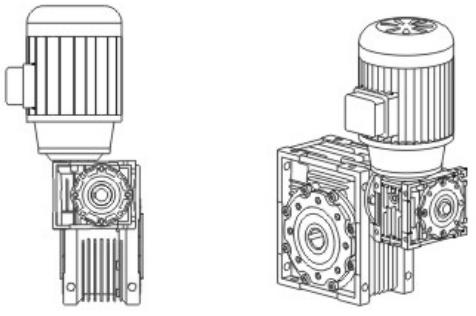
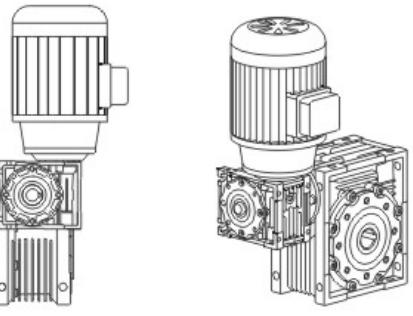
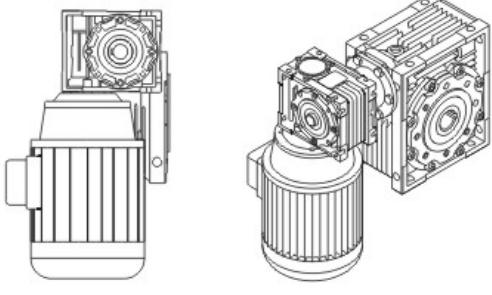
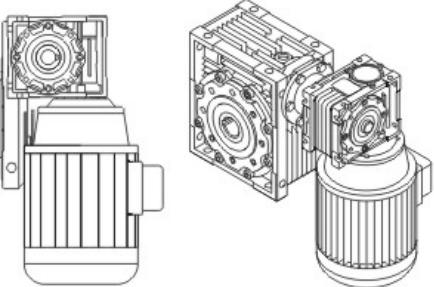
NMRV

MOTOR

T



8. 雙級機型帶電機安裝型式 Combine mounting positions with motor

| | |
|---|--|
| AS1 | AS2 |
|  |  |
| BS1 | BS2 |
|  |  |
| VS1 | VS2 |
|  |  |
| PS1 | PS2 |
|  |  |



9. 使用說明書

十分感謝您選用了本公司產品。在使用之前，請詳細參閱以下說明，以確保正確使用。

型式說明：

1、蝸輪蝸杆減速器按輸入方式可分為孔式輸入和軸式輸入，按輸出方式可分為孔輸出、單向軸輸出、雙向軸輸出等軸型。

2、按中心距分有：25、30、40、50、63、75、90、105、110、130、150系列。

單級傳動比系列：5、7.5、10、15、20、25、30、40、50、60、80、100。

一、安裝

1、蝸杆轉速建議小於1500 r/min。

2、安裝應避免任何振動，保持平穩。

3、安裝之前，應復核其輸入功率、轉速及輸出軸扭矩與銘牌相符，并檢查減速器輸出軸的旋轉方同，并與工作機一致。

4、對於減速器輸出軸的安裝，應保證軸向自由無約束並能相對於減速器軸向自由移動。

5、各種與減速器輸出端相聯接的零部件（滑輪、齒輪、聯軸器、軸等）可採用螺紋孔或其它方式聯接，以確保元件正確運行。潤滑面應避免接觸和防止氧化。

6、安裝後用手轉動軸，必須保證靈活、無卡滯現象。

7、起動應逐漸加載，避免過大的衝擊載荷，並保證轉動平穩、無異響、不鬆動、無漏油等。

二、潤滑

1、減速器的環境溫度為-10°C~60°C，在環境溫度低於0°C時，起動前潤滑油必須加熱到0°C以上或採用低凝固點的潤滑油。

2、減速器剛開始運轉時，可能會出現潤滑油粘度高而產生的問題，建議進行幾分鐘的空載跑合。

3、存放了一段時間（4~6月）的減速器，如果油封和箱體之間沒有潤滑劑，應該建議更換油封，因為這會由於油封橡膠老化粘於軸或失去彈性而導致性能下降。

4、如果有油量指示器，應定期檢查油量使其在正確的範圍內。

5、經過累計10000小時工作後應更換潤滑油。在有效工作時間內，應使減速器處於正常的工作環境和對其進行正確保養。

6、對於沒有油塞的減速器，是長久潤滑設計，免維修。

三、維護

1、不得重力捶擊減速器外殼，以免損壞。

2、定期檢查安裝基礎、密封件、傳動軸等是否正常。若產生不正常現象，應立即停機檢查，排除故障，方可繼續使用。

3、應盡量避免減速器受陽光直射和處於惡劣氣候條件下。

4、應提供良好的通風條件確保減速器正常散熱。

推薦潤滑油：

| | NMRV110~150 | | NMRV025~105 |
|---------------|-------------------------|--------------------------|--------------------------|
| | 礦物油 | | 合成油 |
| T°C ISO VG | (-5)~(+40) ISO VG460 | (-15)~(+25) ISO VG220 | (-25)~(+50) ISO VG320 |
| AGIP | BLASIA460 | BLASIA220 | TELIUM VSF320 |
| SHELL | OMALA OIL 460 | OMALA OIL 220 | TIVEKA OIL Sc320 |
| ESSO | SPARTAN EP460 | SPARTAN EP220 | S220 |
| MOBIL | MOBIL GEAR634 | MOBIL GEAR630 | GLYGOYLE320 |
| CASTROL | ALPHA MAX460 | ALPHA MAX230 | ALPHASYN Pg320 |
| BP | ENERGOL GR-XP460 | ENERGOL GR-XP220 | ENEPROGOL SG-XP320 |

油量：(單位升)

| NMRV | 025 | 030 | 040 | 050 | 063 | 075 | 090 | 105 | 110 | 130 | 150 |
|-------|------|------|------|------|-----|------|-----|-----|-----|-----|-----|
| B3 | | | | | | | | | 3 | 4.5 | 7 |
| B8 | | | | | | | | | 2.2 | 3.3 | 5.1 |
| B6-B7 | 0.02 | 0.04 | 0.08 | 0.15 | 0.3 | 0.55 | 1 | 1.6 | 2.5 | 3.5 | 5.4 |
| V5 | | | | | | | | | 3 | 4.5 | 7 |
| V6 | | | | | | | | | 2.2 | 3.3 | 5.1 |

NMRV

VF

MOTOR

SWL

T

9. Use's Manual

Thank you very much to chose our company's products. Before usiong, please carefully read the following instructions, and ensure the right operations about it.

Types:

1. Worm gear reducer can be classified as flange input and shaft input by input way, and be classified as hollow shaft output, single shaft output, double shaft output and so by output way.
2. Size series: 25、30、40、50、63、75、90、105、110、130、150.
Reduction ratio series(Single):5、7.5、10、15、20、25、30、40、50、60、80、100.

Installation

1. Suggest the rotate soeed of worm less than 1500r/min.
2. The mounting on the machine must be stable and aviod any vibration.
3. Check the correct input efficiency, speed of rotation and output torque according to unit nameplate, and the same direction of rotation of the reduction unit outputshaft before fitting the unit to the machine.
4. For a shaft mounting, for reduction unit with a hollow output shaft, make sure that the cinstraint is axially free and with such play as to ensure free movement for the reduction unit.
5. The various parts (pulleys, gear wheels, couplings, shafts, etc.) must be mounted on the solid or hollow surfaces in contact to avoid seizure or oxidation.
6. After mounting, rotating shaft by hand must be agility and no lock.
7. Starting must take place geadually, without immediately applying the maximum load, and ensure stanble, no noise, no loosen, no leaking oil and so on in rotation.

Lubrication:

1. Enviroment temperature of unit is -10°C~60°C. In the case og temperatures under 0°C, It is necessary to heat up iubrication over 0°C or use low freezing oil before operation.
2. During the early stages of service, problem of lubrication may arise due to the high level of viscosity taken on by the oil and so it is wise to have a few minutes of rotation under no load.
3. In the case of particularly lengthy period of storage (4~6 months), if there is one.
4. Check the correct level of the lubricant throuth the indicator, if there is one.
5. The oil needs to be changed after approximately 10000 hours. This period depends on the type of service and the environment where this reduction unit works.
6. For units supplied without oil pluges, lubrication is permanent and so they need no servicing.

Maintain:

1. Avoid to hit the shell of the reduction unit by gravitational hammer to protect it.
2. Check the correct state of installation basis, oil seals, input/output shaft and so on in the same period. Othe rvise, it is necessary to stop reduction unit and get rid of matter, then go on work.
3. Whenever possible, protect the reduction unit against solar radiation and bad weather.
4. Ensure the motor cools correctly by assuring good passage of air from the fan side.

Recommendation of lubricant brand:

| | NMRV110~150 Mineral oil | | NMRV025~105 Synthetic oil |
|---------------|----------------------------|--------------------------|------------------------------|
| T°C ISO VG | (-5)~(+40) ISO VG460 | (-15)~(+25) ISO VG220 | (-25)~(+50) ISO VG320 |
| AGIP | BLASIA460 | BLASIA220 | TELIUM VSF320 |
| SHELL | OMALA OIL 460 | OMALA OIL 220 | TIVEKA OIL Sc320 |
| ESSO | SPARTAN EP460 | SPARTAN EP220 | S220 |
| MOBIL | MOBIL GEAR634 | MOBIL GEAR630 | GLYGOYLE320 |
| CASTROL | ALPHA MAX460 | ALPHA MAX230 | ALPHASYN Pg320 |
| BP | ENERGOL GR-XP460 | ENERGOL GR-XP220 | ENEPROGOL SG-XP320 |

The quantity of oil:(liter)

| NMRV | 025 | 030 | 040 | 050 | 063 | 075 | 090 | 105 | 110 | 130 | 150 |
|-------|------|------|------|------|-----|------|-----|-----|-----|-----|-----|
| B3 | | | | | | | | | 3 | 4.5 | 7 |
| B8 | | | | | | | | | 2.2 | 3.3 | 5.1 |
| B6-B7 | 0.02 | 0.04 | 0.08 | 0.15 | 0.3 | 0.55 | 1 | 1.6 | 2.5 | 3.5 | 5.4 |
| V5 | | | | | | | | | 3 | 4.5 | 7 |
| V6 | | | | | | | | | 2.2 | 3.3 | 5.1 |

VF系列蝸輪減速機 VF Worm Gear Speed Reducer

1. 產品圖片 Picture of Products

- ◎ 蝸輪減速機
- ◎ Worm Gear Speed Reducer
- ◎ 速比1/7-1/2700



VF..A..



VF..A..E..



VF..N..



VF..V..



VF..F(FA)..



VF..P..



VF..HS..



VF..P..E..HS..



NIMRV

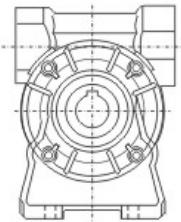
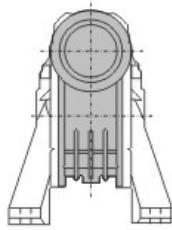
VF

MOTOR

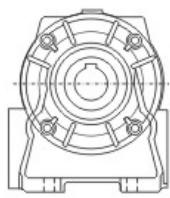
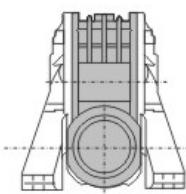
SWL T



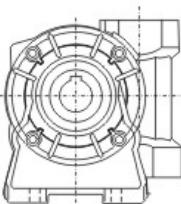
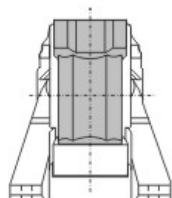
2. 設計方案 Model illuminate



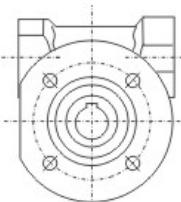
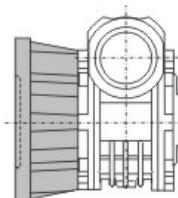
VF..A..
Foot mounted,overdriven



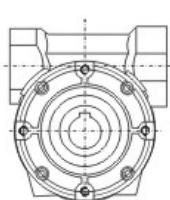
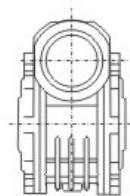
VF..N..
Foot mounted,underdriven



VF..V..
Foot mounted,wormshaft vertical



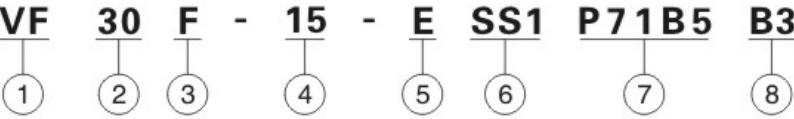
VF..F..
Standard output flange
VF..FA..
Extended output flange



VF..P..
Side cover for shaft mounting

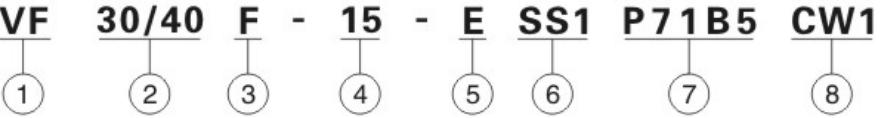
3. 型號說明 Model Illuminate

3.1 VF 蝶杆減速機型號說明 Worm gear units model illuminate

VF 30 F - 15 - E SS1 P71B5 B3


| NO | 說 明 | Comments |
|----|---|--|
| 1 | 蝸輪減速器代號 | Code of worm gear units |
| 2 | 蝸輪減速器中心距(規格) | Central distance of worm gear units(spec) |
| 3 | 結構型式 1). A: 底腳安裝，輸入軸置上 2). N: 底腳安裝，輸入軸置下 3). V: 底腳安裝，蝶杆豎直 4). F(1/2): 標準輸出法蘭 5). FA(1/2): 加長輸出法蘭 6). P: 端蓋用于軸裝式 | Central distance of worm gear units(spec) 1). A: Foot mounted over driven 2). N: Foot mounted under driven 3). V: Foot mounted worm shaft vertical 4). F(1/2): Standard output flange 5). FA(1/2): Extended output flange 6). P: Side cover for shaft mounting |
| 4 | 減速器速比..... (i=7;10;14;.....80;100) | Speed ratio of reducer (i=7;10;14;.....80;100) |
| 5 | 1). 無代號表示不帶蝶杆同向輸出軸 2). E: 帶蝶杆同向輸出軸 | 1). No mark means single extension worm shaft 2). E: Double extension worm shaft |
| 6 | 1). 無代號表示孔輸出 2). SS(1/2): 單向輸出軸和位置 3). DS: 雙向輸出軸 | 1). No mark means hole output 2). SS(1/2): Single output shaft and position 3). DS: Double output shaft |
| 7 | 1). IEC 輸入法蘭 2). HS: 軸輸入 | 1). IEC Output flange 2). HS: Shaft input |
| 8 | 安裝方位代號 | Installation position code |

3.2 VF/VF雙級蝶杆減速機型號說明 Combination worm gear units model illuminate

VF 30/40 F - 15 - E SS1 P71B5 CW1


| NO | 說 明 | Comments |
|----|--|--|
| 1 | 蝸輪減速器代號 | Code of worm gear units |
| 2 | 蝸輪減速器中心距(規格) | Central distance of worm gear units(spec) |
| 3 | 結構型式 1). A: 底腳安裝，輸入軸置上 2). F(1/2): 標準輸出法蘭 3). FA(1/2): 加長輸出法蘭 4). P: 端蓋用于軸裝式 | Central distance of worm gear units(spec) 1).A:Foot mounted overdriven 2).F(1/2):Standard output flange 3).FA(1/2):Extended output flange 4).P:Side cover for shaft mounting |
| 4 | 減速器速比..... (i=240;245;315;.....) | Speed ratio of reducer (i=240;245;315.....) |
| 5 | 1). 無代號表示不帶蝶杆同向輸出軸 2). E: 帶蝶杆同向輸出軸 | 1).No mark means single extension worm shaft 2).E:Double extension worm shaft |
| 6 | 1). 無代號表示孔輸出 2). SS(1/2): 單向輸出軸和位置 3). DS: 雙向輸出軸 | 1).No mark means hole output 2).SS(1/2):Single output shaft and position 3).DS:Double output shaft |
| 7 | 1). IEC 輸入法蘭 2). HS: 軸輸入 | 1).IEC Output flange 2).HS:Shaft input |
| 8 | 安裝方位代號 | Installation position code |



4. 減速機選型表 Gear Unit Selection Tables

4.1 VF..P(IEC)..性能參數 Performance parameter

VF..P(IEC)

| P_{1N} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | fs | | | Page |
|------------------|------------------|------------------|-----|-----------------|-----|---------|-----------------|------|
| 0.06 | 19.3 | 14 | 70 | 1600 | 1.1 | VF30 | 56B5/B14 | 5614 |
| | 22.5 | 13 | 60 | 1600 | 1.5 | | | 47 |
| | 34 | 10 | 40 | 1650 | 1.9 | | | |
| | 45 | 8 | 30 | 1340 | 2.5 | | | |
| | 68 | 6 | 20 | 1180 | 2.9 | | | |
| | 90 | 5 | 15 | 1080 | 3.7 | | | |
| | 135 | 3 | 10 | 950 | 4.7 | | | |
| | 193 | 2 | 7 | 840 | 6.4 | | | |
| | 2.4 | 74 | 560 | 2500 | 0.8 | VF30/44 | 56B5/B14 | 5614 |
| | 3.2 | 62 | 420 | 2500 | 1.0 | | | 53 |
| 0.09 | 3.9 | 53 | 350 | 2500 | 1.1 | | | |
| | 5.5 | 42 | 245 | 2500 | 1.4 | | | |
| | 2 | 116 | 720 | 3450 | 0.8 | VF30/49 | 56B5/B14 | 5614 |
| | 2.5 | 85 | 540 | 3450 | 1.1 | | | 54 |
| | 3.2 | 73 | 420 | 3450 | 1.3 | | | |
| | 4.3 | 53 | 315 | 3450 | 1.8 | | | |
| | 5.6 | 45 | 240 | 3450 | 2.1 | | | |
| | 22.5 | 19 | 60 | 1600 | 1.0 | VF30 | 56B5/B14 | 5624 |
| | 34 | 15 | 40 | 1410 | 1.3 | | | 47 |
| | 45 | 12 | 30 | 1290 | 1.6 | | | |
| 0.12 | 68 | 9 | 20 | 1140 | 2.0 | | | |
| | 90 | 7 | 15 | 1050 | 2.5 | | | |
| | 135 | 5 | 10 | 920 | 3.1 | | | |
| | 193 | 4 | 7 | 820 | 4.3 | | | |
| | 22 | 22 | 40 | 1560 | 0.9 | VF30 | 63B5/B14 | 6316 |
| | 29.3 | 18 | 30 | 1440 | 1.2 | | | 47 |
| | 44 | 14 | 20 | 1230 | 1.5 | | | |
| | 59 | 11 | 15 | 1170 | 1.9 | | | |
| | 88 | 8 | 10 | 1050 | 2.3 | | | |
| | 126 | 6 | 7 | 920 | 3.2 | | | |
| 0.18 | 3.9 | 80 | 350 | 2500 | 0.7 | VF30/44 | 56B5/B14 | 5624 |
| | 5.5 | 62 | 245 | 2500 | 1.0 | | | 53 |
| | 12.6 | 38 | 70 | 2300 | 0.8 | VF44 | 63B5/B14 | 6316 |
| | 14.7 | 33 | 60 | 2300 | 1.2 | | | 49 |
| | 19.1 | 28 | 46 | 2300 | 1.4 | | | |
| | 25.1 | 23 | 35 | 2300 | 1.7 | | | |
| | 31 | 19 | 28 | 2300 | 2.0 | | | |
| | 44 | 15 | 20 | 2300 | 2.6 | | | |
| | 3.2 | 110 | 420 | 3450 | 0.9 | VF30/49 | 56B5/B14 | 5624 |
| | 4.3 | 80 | 315 | 3450 | 1.2 | | | 54 |
| 0.22 | 5.6 | 69 | 240 | 3450 | 1.4 | | | |
| | 8.8 | 41 | 100 | 3300 | 1.3 | VF49 | 63B5/B14 | 6316 |
| | 11.0 | 37 | 80 | 3300 | 1.6 | | | 51 |
| | 12.6 | 34 | 70 | 3300 | 1.8 | | | |
| | 14.7 | 31 | 60 | 3300 | 2.1 | | | |
| | 19.6 | 26 | 45 | 3300 | 2.7 | | | |
| | 24.4 | 22 | 36 | 3300 | 3.4 | | | |
| | 138 | 7 | 20 | 840 | 2.1 | VF30 | 56B5/B14 | 5622 |
| | 275 | 4 | 10 | 740 | 3.4 | | | 47 |
| | 393 | 3 | 7 | 660 | 4.7 | | | |
| 0.37 | 33 | 21 | 40 | 1360 | 0.9 | VF30 | 63B5/B14 | 6314 |
| | 44 | 17 | 30 | 1250 | 1.2 | | | 47 |
| | 66 | 13 | 20 | 1110 | 1.4 | | | |



| P_{1N} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | fs | | | Page | |
|------------------|------------------|------------------|-----|-----------------|-----|---------|--|------|----|
| 0.12 | 87 | 10 | 15 | 1020 | 1.8 | VF30 | | | 47 |
| | 131 | 7 | 10 | 900 | 2.3 | | | | |
| | 187 | 5 | 7 | 810 | 3.1 | | | | |
| | 29 | 24 | 30 | 1360 | 0.9 | VF30 | | | 47 |
| | 44 | 18 | 20 | 1250 | 1.1 | | | | |
| | 58 | 15 | 15 | 1130 | 1.4 | | | | |
| | 87 | 10 | 10 | 1020 | 1.7 | | | | |
| | 124 | 8 | 7 | 900 | 2.4 | | | | |
| | 18.7 | 34 | 70 | 3300 | 0.9 | VF44 | | | 49 |
| | 21.8 | 30 | 60 | 2300 | 1.3 | | | | |
| | 28.5 | 25 | 46 | 2300 | 1.6 | | | | |
| | 37 | 21 | 35 | 2300 | 1.9 | | | | |
| | 47 | 17 | 28 | 2300 | 2.2 | | | | |
| | 66 | 13 | 20 | 2100 | 2.9 | | | | |
| | 94 | 10 | 14 | 1870 | 2.9 | | | | |
| | 14.5 | 42 | 60 | 2300 | 1.1 | VF44 | | | 49 |
| | 19 | 36 | 46 | 2300 | 1.4 | | | | |
| | 25 | 30 | 35 | 2300 | 1.7 | | | | |
| | 31 | 25 | 28 | 2300 | 2.0 | | | | |
| | 44 | 19 | 20 | 2300 | 2.3 | | | | |
| | 62 | 14 | 14 | 2150 | 2.7 | | | | |
| 0.18 | 4.2 | 110 | 315 | 3450 | 0.9 | VF30/49 | | | 53 |
| | 5.5 | 94 | 240 | 3450 | 1.0 | | | | |
| | 13.1 | 42 | 100 | 3150 | 1.2 | VF49 | | | 51 |
| | 16.4 | 36 | 80 | 3150 | 1.5 | | | | |
| | 18.7 | 34 | 70 | 3150 | 1.6 | | | | |
| | 21.8 | 30 | 60 | 3150 | 1.9 | | | | |
| | 29.1 | 25 | 45 | 3040 | 2.6 | | | | |
| | 36 | 21 | 36 | 2830 | 3.3 | | | | |
| | 8.7 | 55 | 100 | 3300 | 0.9 | VF49 | | | 51 |
| | 10.9 | 50 | 80 | 3300 | 1.2 | | | | |
| | 90 | 13 | 30 | 1020 | 1.1 | VF30 | | | 47 |
| | 135 | 10 | 20 | 900 | 1.4 | | | | |
| | 180 | 8 | 15 | 800 | 1.8 | | | | |
| | 270 | 5 | 10 | 710 | 2.2 | | | | |
| | 386 | 4 | 7 | 640 | 3.1 | | | | |
| | 66 | 19 | 20 | 1040 | 1.0 | VF30 | | | 47 |
| | 88 | 15 | 15 | 960 | 1.2 | | | | |
| | 132 | 11 | 10 | 860 | 1.5 | | | | |
| | 189 | 8 | 7 | 770 | 2.1 | | | | |
| 0.22 | 45 | 24 | 60 | 2300 | 1.2 | VF44 | | | 49 |
| | 59 | 20 | 46 | 2190 | 1.4 | | | | |
| | 77 | 16 | 35 | 1970 | 1.8 | | | | |
| | 96 | 14 | 28 | 1770 | 2.1 | | | | |
| | 135 | 10 | 20 | 1590 | 2.8 | | | | |
| | 193 | 7 | 14 | 1470 | 2.9 | | | | |
| | 22 | 45 | 60 | 2300 | 0.9 | VF44 | | | 49 |
| | 29 | 37 | 46 | 2500 | 1.1 | | | | |
| | 38 | 31 | 35 | 2430 | 1.3 | | | | |
| | 47 | 26 | 28 | 2270 | 1.5 | | | | |
| | 66 | 20 | 20 | 2040 | 1.9 | | | | |
| | 94 | 15 | 14 | 1830 | 2.0 | | | | |
| | 132 | 11 | 10 | 1640 | 2.7 | | | | |
| | 26 | 43 | 35 | 2340 | 1.1 | VF44 | | | 49 |
| | 32 | 36 | 28 | 2290 | 1.4 | | | | |
| | 45 | 28 | 20 | 2050 | 1.6 | | | | |
| | 64 | 21 | 14 | 1830 | 1.9 | | | | |
| | 90 | 16 | 10 | 1650 | 2.5 | | | | |

NIMRV

MOTOR

T



| P_{1N} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | fs | | | Page |
|------------------|------------------|------------------|----|-----------------|-----|------|-----------------|-------------|
| 0.18 | 16.5 | 54 | 80 | 3150 | 1.0 | VF49 | 63B5/B14 | 6324 |
| | 18.9 | 50 | 70 | 3150 | 1.1 | | | 51 |
| | 22 | 45 | 60 | 3150 | 1.3 | | | |
| | 29.3 | 37 | 45 | 2300 | 1.8 | | | |
| | 37 | 31 | 36 | 2760 | 2.2 | | | |
| | 47 | 26 | 28 | 2560 | 2.9 | | | |
| | 55 | 23 | 24 | 2430 | 2.7 | | | |
| | 73 | 19 | 18 | 2230 | 3.2 | | | |
| | 15 | 61 | 60 | 3000 | 1.1 | VF49 | 71B5/B14 | 7116 |
| | 20 | 52 | 45 | 2790 | 1.4 | | | 51 |
| 0.25 | 25 | 43 | 36 | 2650 | 1.7 | | | |
| | 32 | 36 | 28 | 2450 | 2.3 | | | |
| | 135 | 14 | 20 | 840 | | VF30 | 63B5/B14 | 6322 |
| | 180 | 11 | 15 | 780 | | | | 47 |
| | 270 | 7 | 10 | 690 | | | | |
| | 77 | 23 | 35 | 1930 | 1.3 | VF44 | 63B5/B14 | 6322 |
| | 96 | 19 | 28 | 1730 | 1.5 | | | 49 |
| | 135 | 14 | 20 | 1550 | 2.0 | | | |
| | 193 | 10 | 14 | 1400 | 2.1 | | | |
| | 270 | 8 | 10 | 1300 | 2.9 | | | |
| 0.37 | 38 | 43 | 35 | 2300 | 0.9 | VF44 | 71B5/B14 | 7126 |
| | 47 | 36 | 28 | 2190 | 1.1 | | | 49 |
| | 66 | 28 | 20 | 1970 | 1.4 | | | |
| | 94 | 21 | 14 | 1770 | 1.4 | | | |
| | 132 | 15 | 10 | 1590 | 1.9 | | | |
| | 189 | 11 | 7 | 1420 | 2.7 | | | |
| | 32 | 50 | 28 | 2300 | 1.0 | VF44 | 71B5/B14 | 7126 |
| | 45 | 39 | 20 | 2190 | 1.1 | | | 49 |
| | 64 | 29 | 14 | 1980 | 1.3 | | | |
| | 90 | 22 | 10 | 1780 | 1.8 | | | |
| 0.55 | 129 | 16 | 7 | 1590 | 2.5 | | | |
| | 39 | 38 | 70 | 2650 | 1.1 | VF49 | 63B5/B14 | 6322 |
| | 45 | 34 | 60 | 2500 | 1.3 | | | 51 |
| | 60 | 28 | 45 | 2350 | 1.8 | | | |
| | 75 | 23 | 36 | 2230 | 2.2 | | | |
| | 96 | 19 | 28 | 2070 | 2.9 | | | |
| | 113 | 17 | 24 | 1930 | 2.8 | | | |
| | 22 | 63 | 60 | 3100 | 0.9 | VF49 | 71B5/B14 | 7114 |
| | 29 | 51 | 45 | 2810 | 1.3 | | | 51 |
| | 37 | 44 | 36 | 2670 | 1.6 | | | |
| 0.75 | 47 | 36 | 28 | 2480 | 2.1 | | | |
| | 55 | 33 | 24 | 2360 | 1.9 | | | |
| | 73 | 26 | 18 | 2170 | 2.3 | | | |
| | 94 | 21 | 14 | 2010 | 3.2 | | | |
| | 20 | 72 | 45 | 3150 | 1.0 | VF49 | 71B5/B14 | 7126 |
| | 25 | 60 | 36 | 3150 | 1.2 | | | 51 |
| | 32 | 51 | 28 | 3150 | 1.6 | | | |
| | 38 | 46 | 24 | 2600 | 1.5 | | | |
| | 50 | 36 | 18 | 2460 | 1.9 | | | |
| | 64 | 29 | 14 | 2260 | 2.4 | | | |
| 1.1 | 90 | 22 | 10 | 2040 | 2.9 | | | |
| | 79 | 33 | 35 | 2860 | 0.9 | VF44 | 63B5/B14 | 7112 |
| | 98 | 27 | 28 | 2720 | 1.1 | | | 49 |
| | 138 | 21 | 20 | 1570 | 1.4 | | | |
| | 196 | 15 | 14 | 1400 | 1.5 | | | |
| | 275 | 11 | 10 | 1260 | 2.0 | | | |
| 1.5 | 393 | 8 | 7 | 1120 | 2.7 | | | |



| P_{1N} [kW] | n_2 [r/min] | M_{2n} [Nm] | i | F_{r2} [N] | fs | | | Page | |
|------------------|------------------|------------------|----|-----------------|-----|------|-----------------|------|----|
| 0.37 | 69 | 40 | 20 | 1870 | 1.0 | VF44 | 63B5/B14 | 7124 | 49 |
| | 98 | 29 | 14 | 1690 | 1.0 | | | | |
| | 137 | 22 | 10 | 1500 | 1.3 | | | | |
| | 196 | 16 | 7 | 1360 | 1.9 | | | | |
| | 61 | 40 | 45 | 2270 | 1.2 | VF49 | 63B5/B14 | 7112 | 51 |
| | 76 | 34 | 36 | 2180 | 1.5 | | | | |
| | 98 | 28 | 28 | 2020 | 2.0 | | | | |
| | 115 | 25 | 24 | 1880 | 1.9 | | | | |
| | 153 | 19 | 18 | 1720 | 2.3 | | | | |
| | 30 | 73 | 45 | 2680 | 0.9 | VF49 | 63B5/B14 | 7124 | 51 |
| 0.55 | 38 | 62 | 36 | 2530 | 1.1 | | | | |
| | 49 | 51 | 28 | 2360 | 1.4 | | | | |
| | 57 | 46 | 24 | 2250 | 1.4 | | | | |
| | 76 | 37 | 18 | 2080 | 1.6 | | | | |
| | 98 | 29 | 14 | 1940 | 2.2 | | | | |
| | 137 | 22 | 10 | 1750 | 2.7 | | | | |
| | 196 | 16 | 7 | 1570 | 3.4 | | | | |
| | 38 | 67 | 24 | 2350 | 1.0 | VF49 | 63B5/B14 | 8016 | 51 |
| | 51 | 53 | 18 | 2240 | 1.3 | | | | |
| | 65 | 43 | 14 | 2070 | 1.7 | | | | |
| 0.75 | 91 | 32 | 10 | 1930 | 2.0 | | | | |
| | 130 | 23 | 7 | 1740 | 2.6 | | | | |
| | 141 | 30 | 20 | 1490 | 1.0 | VF44 | 71B5/B14 | 7122 | 49 |
| | 201 | 22 | 14 | 1350 | 1.0 | | | | |
| | 281 | 16 | 10 | 1210 | 1.4 | | | | |
| | 401 | 12 | 7 | 1080 | 1.9 | | | | |
| | 78 | 49 | 36 | 2090 | 1.1 | VF49 | 71B5/B14 | 7122 | 51 |
| | 100 | 40 | 28 | 1960 | 1.4 | | | | |
| | 117 | 36 | 24 | 1800 | 1.3 | | | | |
| | 156 | 28 | 18 | 1650 | 1.6 | | | | |
| 1.1 | 201 | 22 | 14 | 1420 | 2.2 | | | | |
| | 281 | 16 | 10 | 1390 | 2.7 | | | | |
| | 401 | 12 | 7 | 1250 | 3.5 | | | | |
| | 49 | 76 | 28 | 2170 | 1.0 | VF49 | 80B5/B14 | 8014 | 51 |
| | 58 | 69 | 24 | 2080 | 0.9 | | | | |
| | 77 | 54 | 18 | 1930 | 1.1 | | | | |
| | 99 | 43 | 14 | 1810 | 1.5 | | | | |
| | 138 | 32 | 10 | 1650 | 1.8 | | | | |
| | 197 | 23 | 7 | 1480 | 2.3 | | | | |
| | 66 | 63 | 14 | 1960 | 1.1 | VF49 | 80B5/B14 | 8026 | 51 |
| 1.1 | 92 | 47 | 10 | 1800 | 1.4 | | | | |
| | 131 | 34 | 7 | 1660 | 1.8 | | | | |
| | 117 | 49 | 24 | 1710 | 1.0 | VF49 | 80B5/B14 | 8012 | 51 |
| | 156 | 38 | 18 | 1580 | 1.2 | | | | |
| | 200 | 30 | 14 | 1480 | 1.6 | | | | |
| 0.75 | 280 | 22 | 10 | 1340 | 2.0 | | | | |
| | 400 | 16 | 7 | 1200 | 2.6 | | | | |
| | 100 | 58 | 14 | 1690 | 1.1 | VF49 | 80B5/B14 | 8024 | 51 |
| | 140 | 43 | 10 | 1540 | 1.4 | | | | |
| | 200 | 31 | 7 | 1400 | 1.7 | | | | |
| 1.1 | 200 | 45 | 14 | 1370 | 1.1 | VF49 | 80B5/B14 | 8022 | 51 |
| | 280 | 33 | 10 | 1250 | 1.3 | | | | |
| | 400 | 23 | 7 | 1130 | 1.8 | | | | |

NIMRV

MOTOR

T



4.2 VF..HS.. 性能參數 Performance parameter

VF..HS..

| M _{2n} [Nm] | n ₁ [r/min] | i | P _{1n} [kW] | n ₂ [r/min] | F _{r2} [N] | F _{r1} [N] | | Page ----- |
|-------------------------|---------------------------|-----|-------------------------|---------------------------|------------------------|------------------------|--|----------------|
| 12 | 2800 | 7 | 0.58 | 400 | 510 | 120 | | |
| 12 | 2800 | 10 | 0.41 | 280 | 620 | 70 | | |
| 14 | 2800 | 15 | 0.34 | 187 | 720 | - | | |
| 14 | 2800 | 20 | 0.26 | 140 | 820 | - | | |
| 15 | 2800 | 30 | 0.21 | 93 | 960 | - | | |
| 14 | 2800 | 40 | 0.16 | 70 | 1090 | - | | |
| 14 | 2800 | 60 | 0.12 | 47 | 1270 | - | | |
| 11 | 2800 | 70 | 0.08 | 40 | 1380 | - | | |
| 16 | 1400 | 7 | 0.41 | 200 | 630 | 140 | | |
| 16 | 1400 | 10 | 0.30 | 140 | 770 | 80 | | |
| 18 | 1400 | 15 | 0.24 | 93 | 910 | - | | |
| 18 | 1400 | 20 | 0.19 | 70 | 1030 | - | | |
| 20 | 1400 | 30 | 0.15 | 47 | 1200 | - | | |
| 19 | 1400 | 40 | 0.12 | 35 | 1360 | - | | |
| 19 | 1400 | 60 | 0.09 | 23.3 | 1590 | - | | |
| 15 | 1400 | 70 | 0.07 | 20 | 1600 | - | | |
| 18 | 900 | 7 | 0.30 | 129 | 730 | 150 | | |
| 18 | 900 | 10 | 0.22 | 90 | 900 | 150 | | |
| 20 | 900 | 15 | 0.17 | 60 | 1060 | - | | |
| 20 | 900 | 20 | 0.14 | 45 | 1200 | - | | |
| 22 | 900 | 30 | 0.12 | 30 | 1400 | - | | |
| 20 | 900 | 40 | 0.09 | 23 | 1590 | - | | |
| 20 | 900 | 60 | 0.07 | 15 | 1650 | - | | |
| 17 | 900 | 70 | 0.05 | 13 | 1700 | - | | |
| 20 | 500 | 7 | 0.19 | 71 | 920 | 150 | | |
| 20 | 500 | 10 | 0.14 | 50 | 1120 | 150 | | |
| 22 | 500 | 15 | 0.11 | 33 | 1320 | 150 | | |
| 22 | 500 | 20 | 0.09 | 25 | 1490 | 150 | | |
| 24 | 500 | 30 | 0.07 | 16.7 | 1700 | - | | |
| 22 | 500 | 40 | 0.06 | 12.5 | 1700 | - | | |
| 22 | 500 | 60 | 0.05 | 8.3 | 1700 | - | | |
| 19 | 500 | 70 | 0.04 | 7 | 1700 | - | | |
| 22 | 2800 | 7 | 1.1 | 400 | 950 | 220 | | |
| 22 | 2800 | 10 | 0.74 | 280 | 1150 | 220 | | |
| 22 | 2800 | 14 | 0.55 | 200 | 1340 | 220 | | |
| 29 | 2800 | 20 | 0.52 | 140 | 1490 | 220 | | |
| 29 | 2800 | 28 | 0.40 | 100 | 1710 | 220 | | |
| 29 | 2800 | 35 | 0.33 | 80 | 1870 | 220 | | |
| 29 | 2800 | 46 | 0.27 | 61 | 2080 | 220 | | |
| 29 | 2800 | 60 | 0.22 | 47 | 2290 | 220 | | |
| 22 | 2800 | 70 | 0.15 | 40 | 2300 | 220 | | |
| 21 | 2800 | 100 | 0.11 | 28 | 2300 | 220 | | |
| 29 | 1400 | 7 | 0.71 | 200 | 1180 | 220 | | |
| 29 | 1400 | 10 | 0.51 | 140 | 1430 | 220 | | |
| 29 | 1400 | 14 | 0.37 | 100 | 1680 | 220 | | |
| 39 | 1400 | 20 | 0.37 | 70 | 1860 | 220 | | |
| 39 | 1400 | 28 | 0.29 | 50 | 2140 | 220 | | |
| 39 | 1400 | 35 | 0.25 | 40 | 2300 | 220 | | |
| 39 | 1400 | 46 | 0.19 | 30 | 2300 | 220 | | |
| 39 | 1400 | 60 | 0.16 | 23.3 | 2300 | 220 | | |
| 29 | 1400 | 70 | 0.11 | 20 | 2300 | 220 | | |
| 28 | 1400 | 100 | 0.09 | 14 | 2300 | 220 | | |
| 39 | 900 | 7 | 0.63 | 129 | 1300 | 220 | | |
| 39 | 900 | 10 | 0.45 | 90 | 1610 | 220 | | |
| 39 | 900 | 14 | 0.34 | 64 | 1890 | 220 | | |
| 45 | 900 | 20 | 0.29 | 45 | 2160 | 220 | | |
| 49 | 900 | 28 | 0.24 | 32 | 2300 | 220 | | |
| 49 | 900 | 35 | 0.20 | 25.7 | 2300 | 220 | | |
| 49 | 900 | 46 | 0.17 | 19.6 | 2300 | 220 | | |
| 45 | 900 | 60 | 0.13 | 15 | 2300 | 220 | | |
| 39 | 900 | 70 | 0.10 | 12.9 | 2300 | 220 | | |
| 30 | 900 | 100 | 0.06 | 9 | 2300 | 220 | | |



| M _{2n} [Nm] | n ₁ [r/min] | i | P _{1n} [kW] | n ₂ [r/min] | F _{r2} [N] | F _{r1} [N] | | Page [] |
|-------------------------|---------------------------|-----|-------------------------|---------------------------|------------------------|------------------------|--|-------------|
| 41 | 2800 | 7 | 2 | 400 | 950 | 400 | | |
| 44 | 2800 | 10 | 1.5 | 280 | 1140 | 400 | | |
| 49 | 2800 | 14 | 1.2 | 200 | 1310 | 400 | | |
| 44 | 2800 | 18 | 0.87 | 156 | 1520 | 400 | | |
| 47 | 2800 | 24 | 0.73 | 117 | 1670 | 400 | | |
| 56 | 2800 | 28 | 0.78 | 100 | 1740 | 400 | | |
| 52 | 2800 | 36 | 0.59 | 78 | 1970 | 400 | | |
| 49 | 2800 | 45 | 0.46 | 62 | 2180 | 400 | | |
| 44 | 2800 | 60 | 0.34 | 47 | 2480 | 400 | | |
| 41 | 2800 | 70 | 0.28 | 40 | 2650 | 400 | | |
| 41 | 2800 | 80 | 0.25 | 35 | 2780 | 400 | | |
| 37 | 2800 | 100 | 0.20 | 28 | 3050 | 400 | | |
| 54 | 1400 | 7 | 1.3 | 200 | 1170 | 400 | | |
| 59 | 1400 | 10 | 1.0 | 140 | 1410 | 400 | | |
| 65 | 1400 | 14 | 0.90 | 100 | 1630 | 400 | | |
| 59 | 1400 | 18 | 0.60 | 78 | 1890 | 400 | | |
| 63 | 1400 | 24 | 0.50 | 58 | 2110 | 400 | | |
| 74 | 1400 | 28 | 0.55 | 50 | 2170 | 400 | | |
| 69 | 1400 | 36 | 0.42 | 39 | 2460 | 400 | | |
| 65 | 1400 | 45 | 0.33 | 31 | 2725 | 400 | | |
| 59 | 1400 | 60 | 0.25 | 23.3 | 3100 | 400 | | |
| 55 | 1400 | 70 | 0.21 | 20 | 3150 | 400 | | |
| 54 | 14000 | 80 | 0.19 | 17.5 | 3150 | 400 | | |
| 49 | 1400 | 100 | 0.13 | 14 | 3150 | 400 | | |
| 61 | 900 | 7 | 0.97 | 129 | 1370 | 400 | | |
| 64 | 900 | 10 | 0.75 | 90 | 1670 | 400 | | |
| 71 | 900 | 14 | 0.61 | 64 | 1920 | 400 | | |
| 68 | 900 | 18 | 0.47 | 50 | 2190 | 400 | | |
| 68 | 900 | 24 | 0.36 | 38 | 2480 | 400 | | |
| 82 | 900 | 28 | 0.41 | 32 | 2540 | 400 | | |
| 75 | 900 | 36 | 0.31 | 25 | 2880 | 400 | | |
| 71 | 900 | 45 | 0.25 | 20 | 3190 | 400 | | |
| 64 | 900 | 60 | 0.19 | 15 | 3300 | 400 | | |
| 60 | 900 | 70 | 0.16 | 12.9 | 3300 | 400 | | |
| 58 | 900 | 80 | 0.14 | 11.3 | 3300 | 400 | | |
| 52 | 900 | 100 | 0.11 | 9 | 3300 | 400 | | |
| 74 | 500 | 7 | 0.67 | 71 | 1670 | 400 | | |
| 74 | 500 | 10 | 0.49 | 50 | 2060 | 400 | | |
| 78 | 500 | 14 | 0.39 | 36 | 2400 | 400 | | |
| 74 | 500 | 18 | 0.30 | 27.8 | 2730 | 400 | | |
| 74 | 500 | 24 | 0.24 | 20.8 | 3090 | 400 | | |
| 88 | 500 | 28 | 0.26 | 17.9 | 3180 | 400 | | |
| 80 | 500 | 36 | 0.20 | 13.9 | 3450 | 400 | | |
| 78 | 500 | 45 | 0.17 | 11.1 | 3450 | 400 | | |
| 69 | 500 | 60 | 0.12 | 8.3 | 3450 | 400 | | |
| 69 | 500 | 70 | 0.11 | 7.1 | 3450 | 400 | | |
| 59 | 500 | 80 | 0.09 | 6.3 | 3450 | 400 | | |
| 59 | 500 | 100 | 0.08 | 5 | 3450 | 400 | | |
| 45 | 500 | 7 | 0.41 | 71 | 1610 | 220 | | |
| 45 | 500 | 10 | 0.29 | 50 | 1980 | 220 | | |
| 50 | 500 | 14 | 0.25 | 36 | 2280 | 220 | | |
| 50 | 500 | 20 | 0.18 | 25 | 2500 | 220 | | |
| 55 | 500 | 28 | 0.16 | 17.9 | 2500 | 220 | | |
| 55 | 500 | 35 | 0.14 | 14.3 | 2500 | 220 | | |
| 50 | 500 | 46 | 0.10 | 10.9 | 2500 | 220 | | |
| 50 | 500 | 60 | 0.09 | 8.3 | 2500 | 220 | | |
| 45 | 500 | 70 | 0.07 | 7.1 | 2500 | 220 | | |
| 32 | 500 | 100 | 0.04 | 5 | 2500 | 220 | | |

NIMRV

MOTOR

T

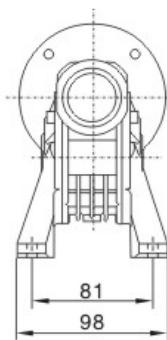
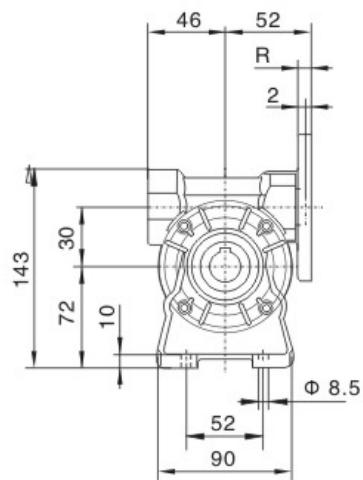
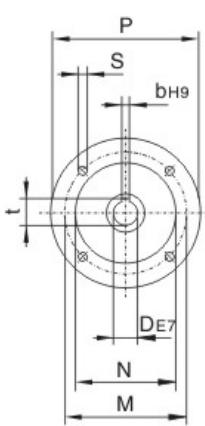


5. 外形尺寸圖 Outline Dimension Sheet

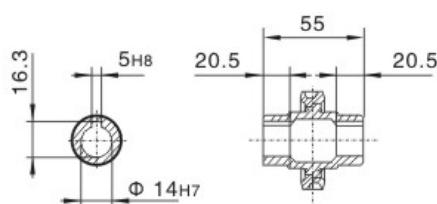
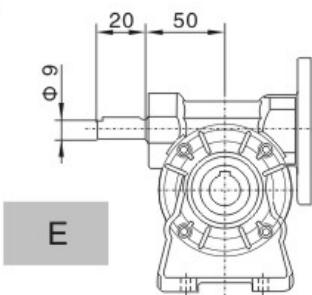
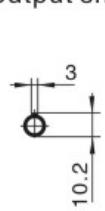
5.1 VF..外形尺寸 Outline dimension

VF30A..P(IEC)

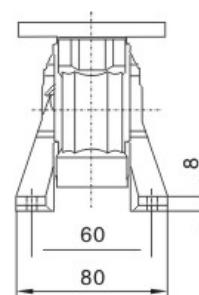
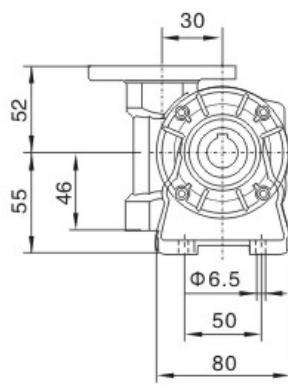
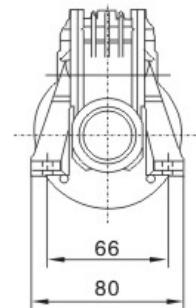
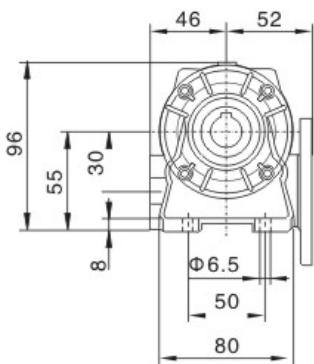
輸入接口 Input adapters



蝸杆輸出軸 Worm output shaft



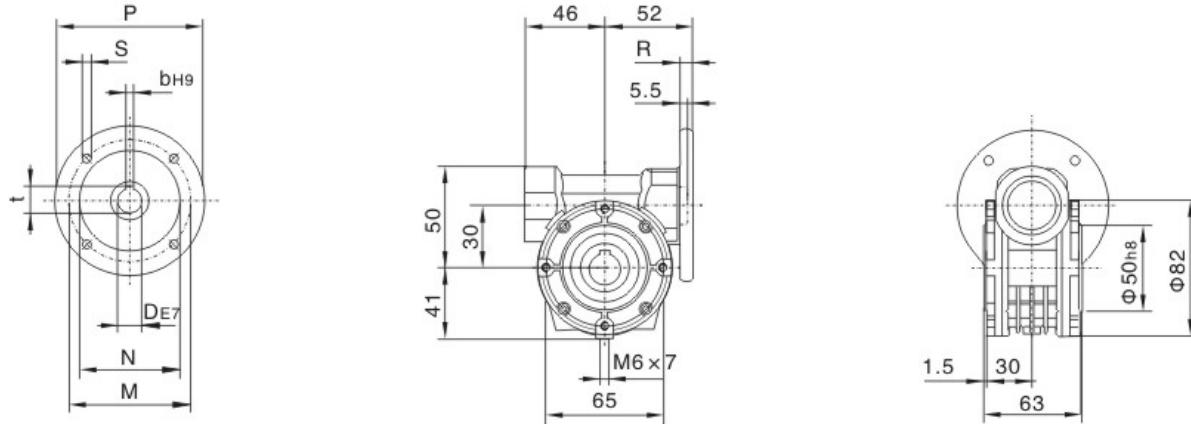
VF30N..



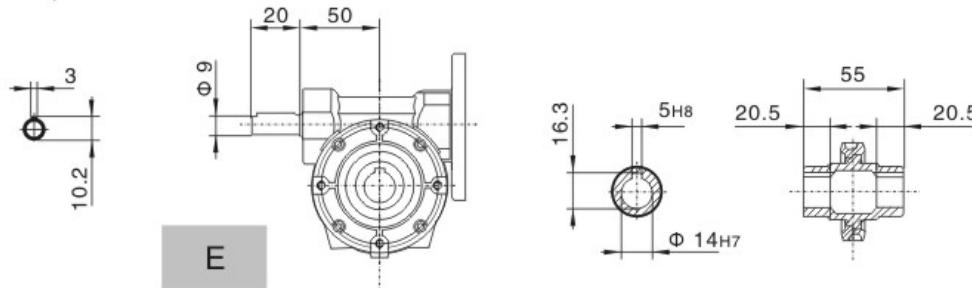
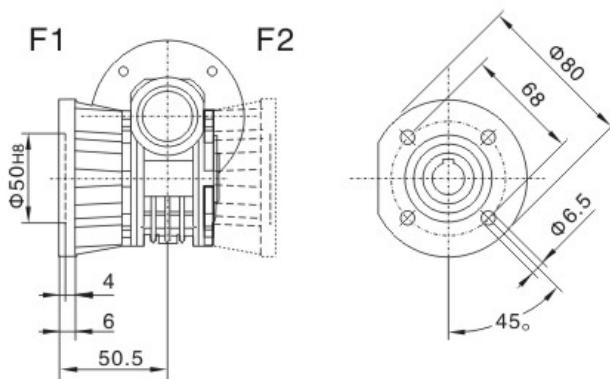
| IEC | D _{E7} | b | t | P | M | N | R | S |
|-------|-----------------|---|------|-----|-----|----|---|-----|
| 56B5 | 9 | 3 | 10.4 | 120 | 100 | 80 | 7 | 7 |
| 56B14 | 9 | 3 | 10.4 | 80 | 65 | 50 | 7 | 5.5 |
| 63B5 | 11 | 4 | 12.8 | 140 | 115 | 95 | 8 | 9.5 |
| 63B14 | 11 | 4 | 12.8 | 90 | 75 | 60 | 7 | 5.5 |

VF30P..P(IEC)

輸入接口 Input adapters



蝸杆輸出軸 Worm output shaft

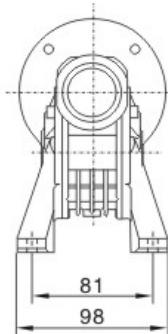
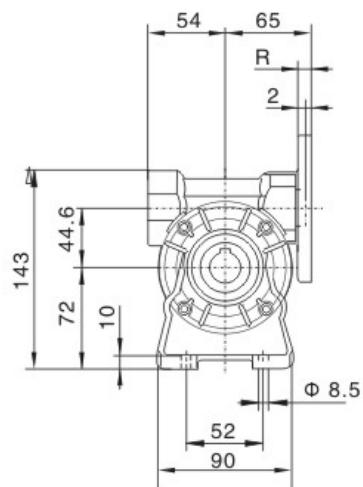
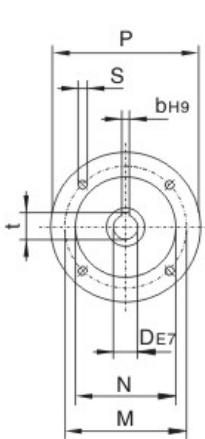

VF30F..


| IEC | D _{E7} | b | t | P | M | N | R | S |
|-------|-----------------|---|------|-----|-----|----|---|-----|
| 56B5 | 9 | 3 | 10.4 | 120 | 100 | 80 | 7 | 7 |
| 56B14 | 9 | 3 | 10.4 | 80 | 65 | 50 | 7 | 5.5 |
| 63B5 | 11 | 4 | 12.8 | 140 | 115 | 95 | 8 | 9.5 |
| 63B14 | 11 | 4 | 12.8 | 90 | 75 | 60 | 7 | 5.5 |

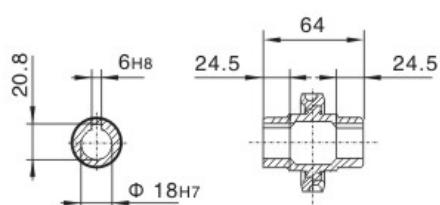
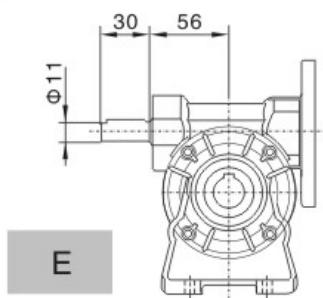
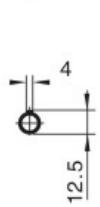


VF44A..P(IEC)

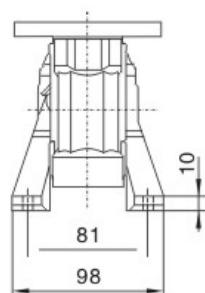
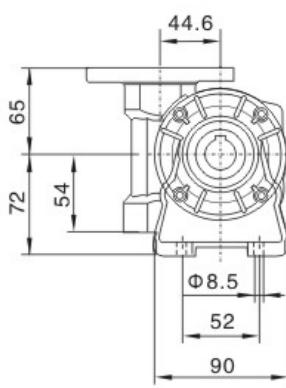
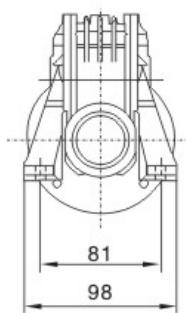
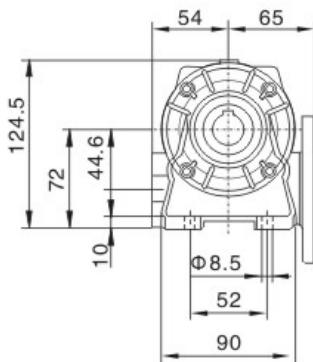
輸入接口 Input adapters



蝸杆輸出軸 Worm output shaft



VF44N..

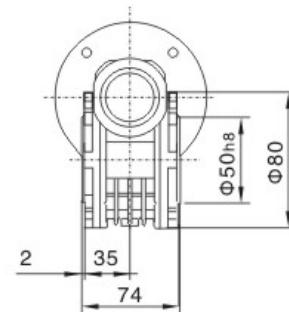
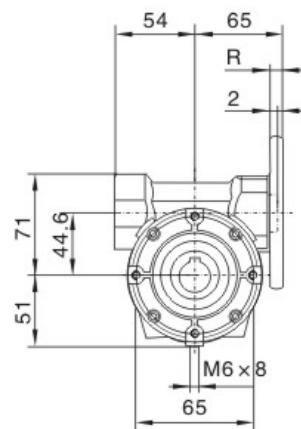
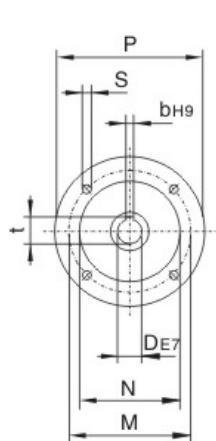


VF44V..

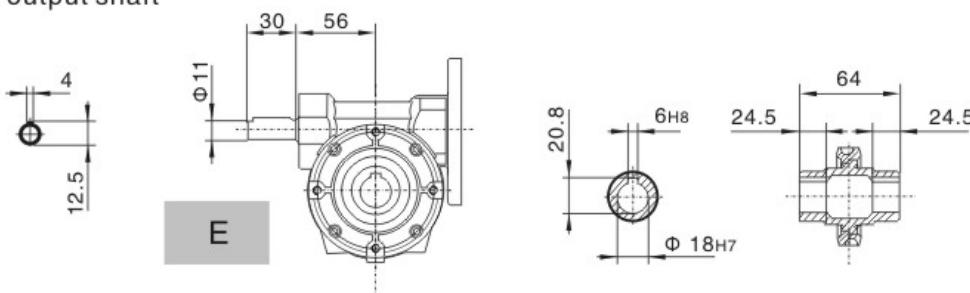
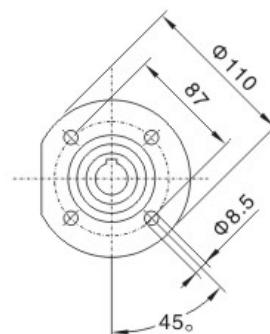
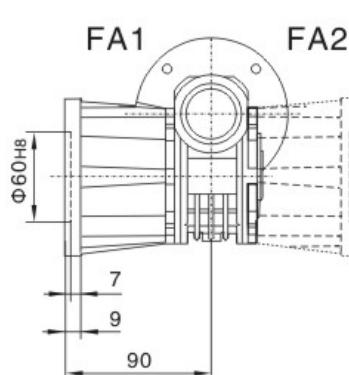
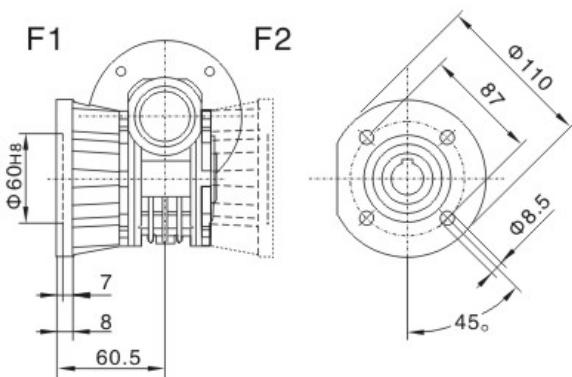
| IEC | D _{E7} | b | t | P | M | N | R | S |
|-------|-----------------|---|------|-----|-----|-----|----|-----|
| 63B5 | 11 | 4 | 12.8 | 140 | 115 | 95 | 10 | 9.5 |
| 63B14 | 11 | 4 | 12.8 | 90 | 75 | 60 | 8 | 5.5 |
| 71B5 | 14 | 5 | 16.3 | 160 | 130 | 110 | 10 | 9.5 |
| 71B14 | 14 | 5 | 16.3 | 105 | 85 | 70 | 10 | 7 |

VF44P..P(IEC)

輸入接口 Input adapters



蝶杆輸出軸 Worm output shaft

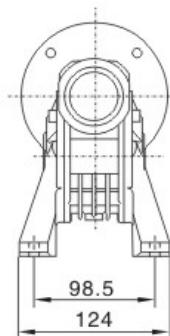
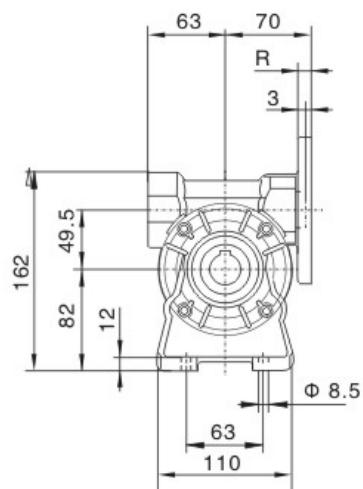
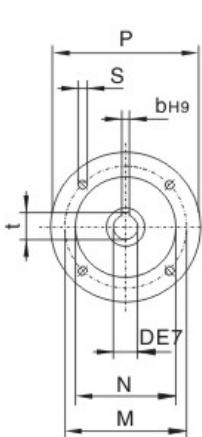

VF44F..
VF44FA..


| IEC | D _{E7} | b | t | P | M | N | R | S |
|-------|-----------------|---|------|-----|-----|-----|----|-----|
| 63B5 | 11 | 4 | 12.8 | 140 | 115 | 95 | 10 | 9.5 |
| 63B14 | 11 | 4 | 12.8 | 90 | 75 | 60 | 8 | 5.5 |
| 71B5 | 14 | 5 | 16.3 | 160 | 130 | 110 | 10 | 9.5 |
| 71B14 | 14 | 5 | 16.3 | 105 | 85 | 70 | 10 | 7 |

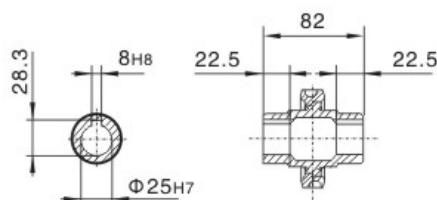
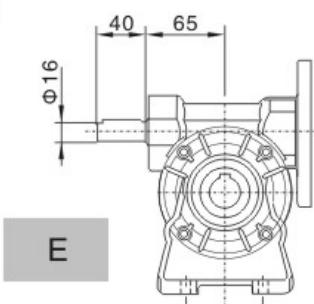
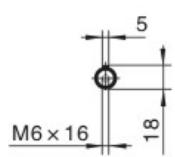


VF49A..P(IEC)

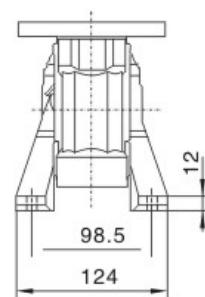
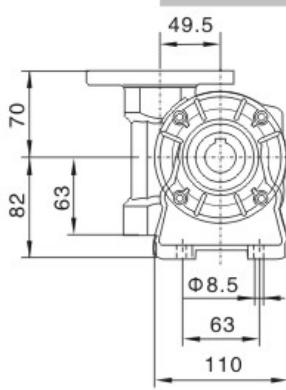
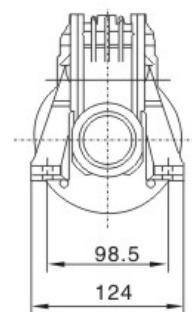
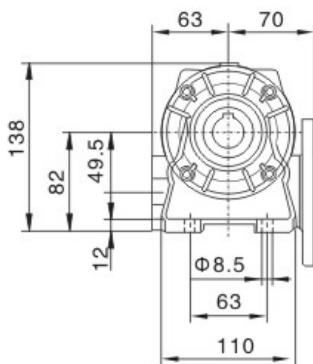
輸入接口 Input adapters



蝸杆輸出軸 Worm output shaft



VF49N..

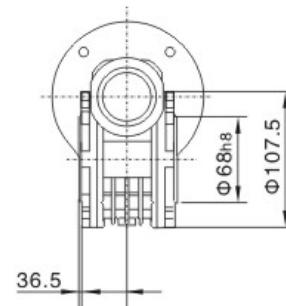
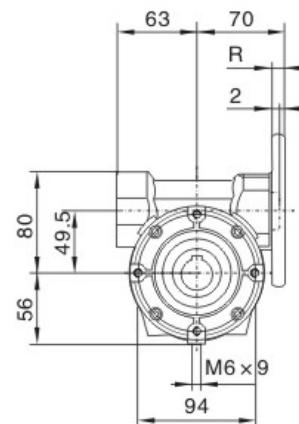
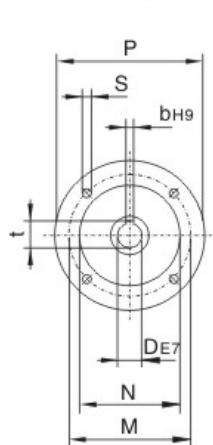


| IEC | D _{E7} | b | t | P | M | N | R | S |
|-------|-----------------|---|------|-----|-----|-----|-------|------|
| 63B5 | 11 | 4 | 12.8 | 140 | 115 | 95 | 10.5 | 9.5 |
| 63B14 | 11 | 4 | 12.8 | 90 | 75 | 60 | 7 | 6 |
| 71B5 | 14 | 5 | 16.3 | 160 | 130 | 110 | 10.5 | 9.5 |
| 71B14 | 14 | 5 | 16.3 | 105 | 85 | 70 | 10.58 | 6.5 |
| 80B5 | 19 | 6 | 21.8 | 200 | 165 | 130 | 10 | 11.5 |
| 80B14 | 19 | 6 | 21.8 | 120 | 100 | 80 | 10 | 7 |

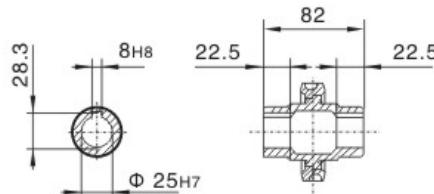
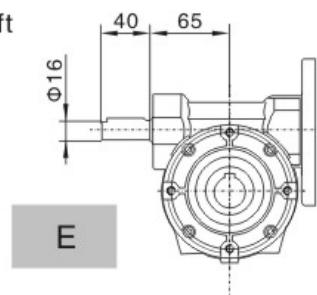
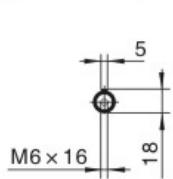


VF49P..P(IEC)

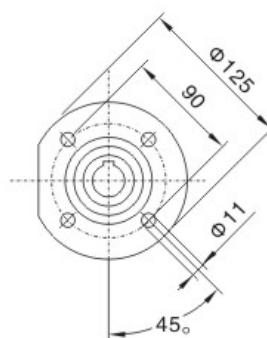
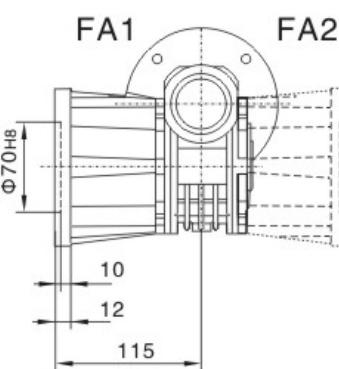
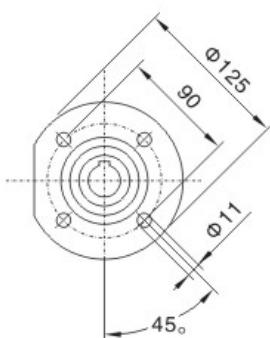
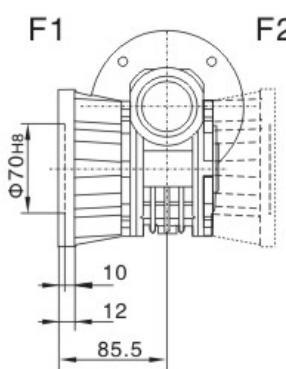
輸入接口 Input adapters



蝸杆輸出軸 Worm output shaft



VF49F..



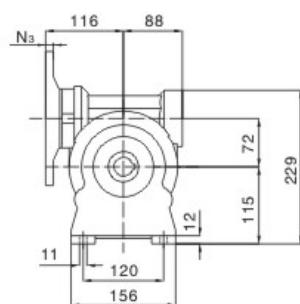
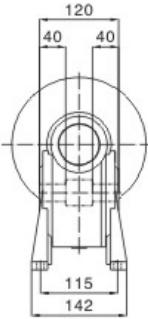
VF49FA..

| IEC | D _{E7} | b | t | P | M | N | R | S |
|-------|-----------------|---|------|-----|-----|-----|------|------|
| 63B5 | 11 | 4 | 12.8 | 140 | 115 | 95 | 10.5 | 9.5 |
| 63B14 | 11 | 4 | 12.8 | 90 | 75 | 60 | 7 | 6 |
| 71B5 | 14 | 5 | 16.3 | 160 | 130 | 110 | 10.5 | 9.5 |
| 71B14 | 14 | 5 | 16.3 | 105 | 85 | 70 | 10.5 | 6.5 |
| 80B5 | 19 | 6 | 21.8 | 200 | 165 | 130 | 10 | 11.5 |
| 80B14 | 19 | 6 | 21.8 | 120 | 100 | 80 | 10 | 7 |

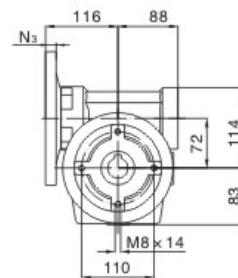
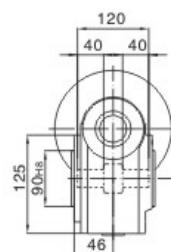


VF72A..P(IEC)

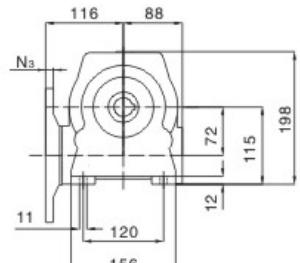
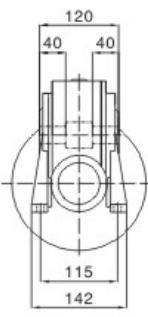
VF72A..P



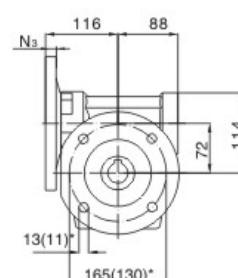
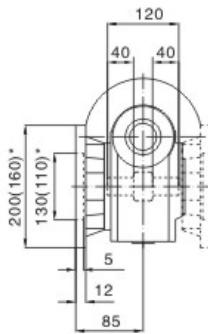
VF72P..P



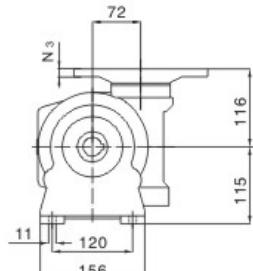
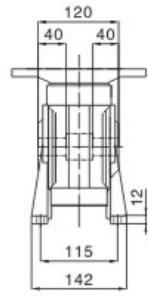
VF72N..P



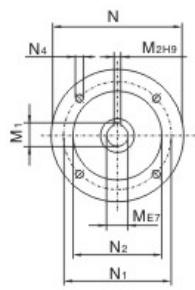
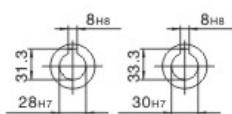
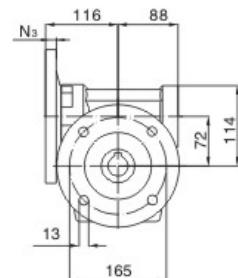
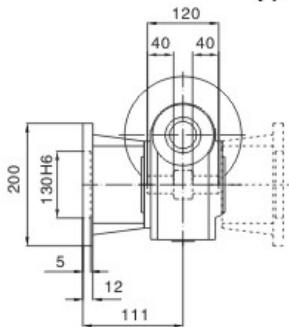
VF72FC(FCR*)..P



VF72V..P



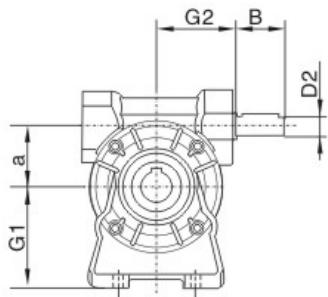
VF72F..P



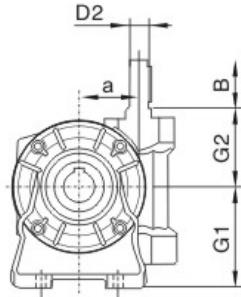
| A.N.V.F FC.FCR.P | M | M1 | M2 | N | N1 | N2 | N3 | N4 |
|---------------------|----|------|----|-----|-----|-----|----|------|
| VF72P71B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 12 | 9 |
| VF72P80B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 12 | 11.5 |
| VF72P90B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 12 | 11.5 |
| VF72P100B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 13.5 |
| VF72P80B14 | 19 | 21.8 | 6 | 120 | 100 | 80 | 10 | 7 |
| VF72P90B14 | 24 | 27.3 | 8 | 140 | 115 | 95 | 10 | 9 |
| VF72P100B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 12 | 9 |

5.2 VF..HS..外形尺寸 Outline dimension

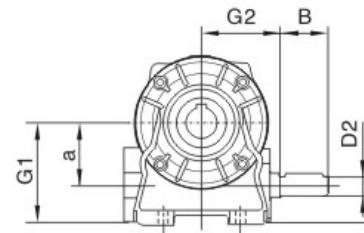
VF..HS..



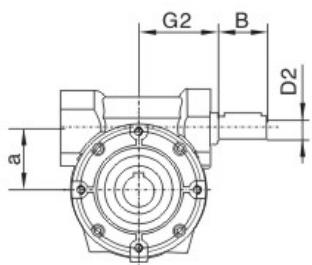
VF_A..HS..



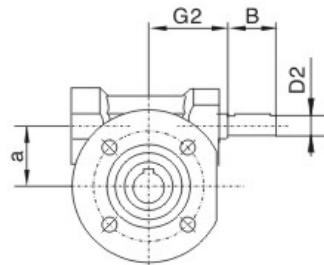
VF_V..HS..



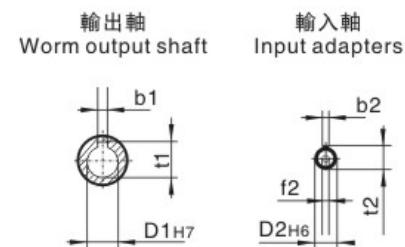
VF_N..HS..



VF_P..HS..



VF_F..HS..
VF_FA..HS..



NIMRV

VF

MOTOR

SWL

T

| | a | D1H7 | t1 | b1 | D2h6 | t2 | b2 | B | G2 | G1 | f2 |
|---------|------|------|------|----|------|------|----|----|----|------|-------|
| VF30_HS | 30 | 14 | 16.3 | 5 | 9 | 10.2 | 3 | 20 | 50 | 47 | — |
| VF44_HS | 44.6 | 18 | 20.8 | 6 | 11 | 12.5 | 4 | 30 | 54 | 55 | — |
| VF49_HS | 49.5 | 25 | 28.3 | 8 | 16 | 18 | 5 | 40 | 65 | 64.5 | M6×16 |



6. 附件尺寸表 Accessories Outline Dimension Sheet

6.1 輸出軸 Output Shafts

| | dh6 | B | B1 | t1 | L | f | G | b1 |
|-------|-----|----|------|------|-------|-------|----|----|
| VF 30 | 14 | 30 | 32.5 | 16 | 120 | M5×13 | 55 | 5 |
| VF 44 | 18 | 40 | 42.7 | 20.5 | 149.4 | M6×16 | 64 | 6 |
| VF 49 | 25 | 60 | 63.2 | 28 | 208.4 | M8×19 | 82 | 8 |

| | dh6 | B | B1 | t1 | L | f | G | b1 |
|-------|-----|----|------|------|-------|-------|----|----|
| VF 30 | 14 | 30 | 32.5 | 16 | 120 | M5×13 | 55 | 5 |
| VF 44 | 18 | 40 | 42.7 | 20.5 | 149.4 | M6×16 | 64 | 6 |
| VF 49 | 25 | 60 | 63.2 | 28 | 208.4 | M8×19 | 82 | 8 |

*非標產品，訂單時請說明。Only on request

6.2 扭力臂 Torque arm

無振動--無阻尼
Without vibration-dampening bushing

| | K1 | K2 | K3 | KD | KE | D | G | KH | I |
|------|-----|----|-------|----|----|---|----|----|---|
| VF30 | 100 | 40 | 157.5 | 50 | 65 | 7 | 14 | 8 | 4 |
| VF44 | 100 | 40 | 157.5 | 50 | 65 | 7 | 14 | 8 | 4 |
| VF49 | 100 | 55 | 172.5 | 68 | 94 | 7 | 14 | 8 | 4 |



7. 安裝方位 Arrangements

7.1 VF..安裝方位圖 Installation Positions Diagram

| | VF..A | VF..N | VF..V | VF..P | VF..F |
|----|-------|-------|-------|-------|-------|
| B3 | | | | | |
| B6 | | | | | |
| B7 | | | | | |
| B8 | | | | | |
| V5 | | | | | |
| V6 | | | | | |

NIMRV

VF

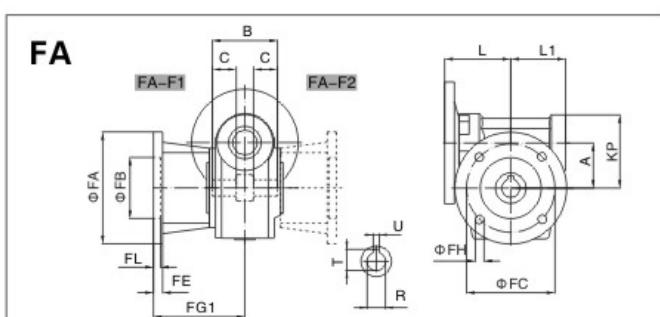
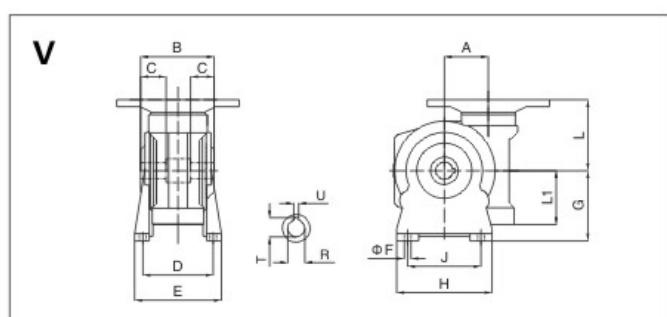
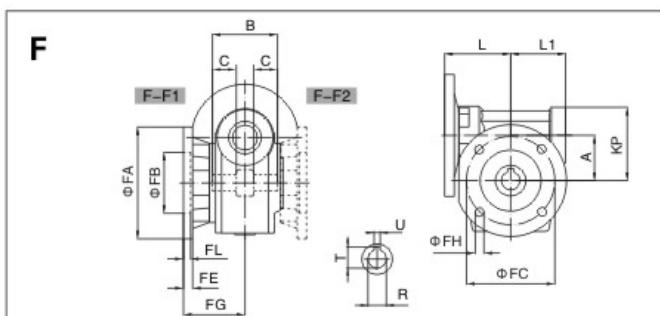
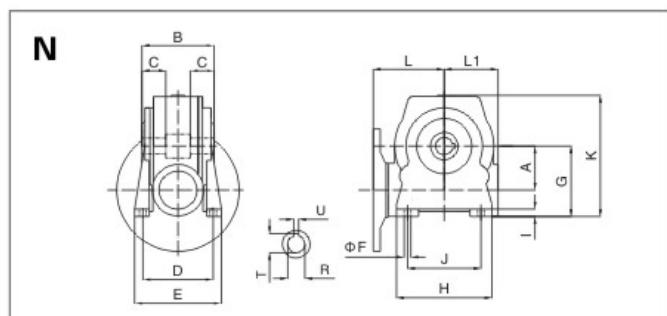
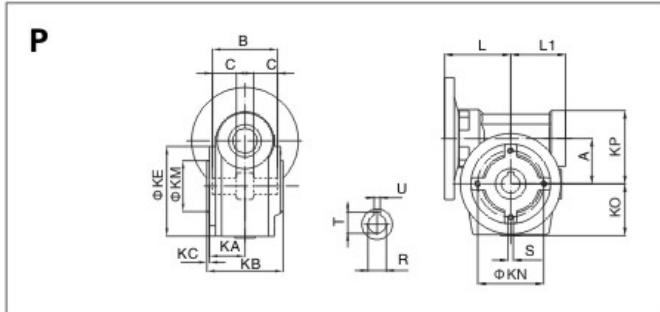
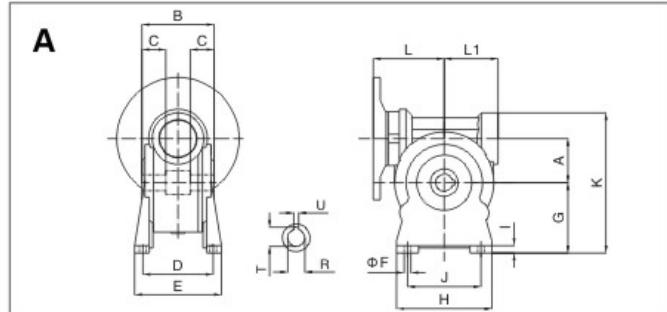
MOTOR

SWL

T



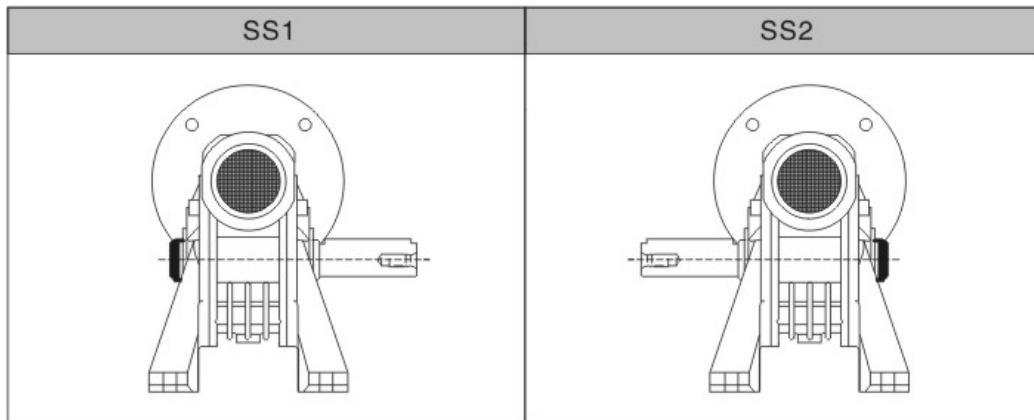
7.2 VF..外型及安裝尺寸 Outline & installation sizes



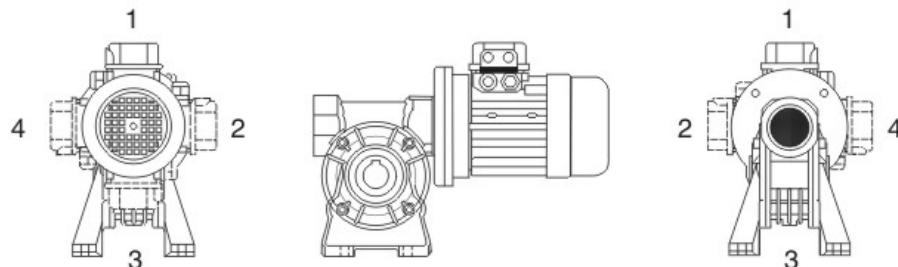
| 型號Type | A | B | C | D | E | ΦF | G | H | I | J | K | L | L1 | ΦKE | ΦKM | ΦKN | KA |
|--------|-------|-----|------|------|-----|------|-----|-----|----|-----|-----|-----|-----|-------|-----|-----|------|
| VF30 | 30 | 55 | 20.5 | 66 | 80 | 6.5 | 55 | 80 | 8 | 50 | 105 | 52 | 46 | 82 | 50 | 65 | 30 |
| VF44 | 44.6 | 64 | 24.5 | 81 | 98 | 8.5 | 72 | 90 | 10 | 52 | 143 | 65 | 54 | 99 | 50 | 65 | 35 |
| VF49 | 49.5 | 82 | 22.5 | 98.5 | 124 | 8.5 | 82 | 110 | 12 | 63 | 162 | 70 | 63 | 107.5 | 68 | 94 | 37 |
| VF63 | 62.17 | 120 | 40 | 111 | 143 | 10.5 | 100 | 140 | 12 | 95 | 199 | 95 | 80 | 110 | 75 | 90 | 45 |
| VF72 | 72 | 120 | 40 | 115 | 142 | 11 | 115 | 156 | 12 | 120 | 229 | 116 | 88 | 125 | 90 | 110 | 46 |
| VF86 | 86.9 | 140 | 45 | 146 | 186 | 11 | 142 | 220 | 14 | 140 | 280 | 126 | 110 | 160 | 110 | 130 | 66.5 |
| VF110 | 110 | 155 | 45 | 181 | 220 | 12.5 | 170 | 270 | 15 | 200 | 339 | 153 | 138 | 200 | 130 | 165 | 74 |
| VF130 | 130 | 165 | 52.5 | 191 | 245 | 16 | 195 | 310 | 18 | 220 | 390 | 185 | 154 | 250 | 180 | 215 | 78.5 |
| VF150 | 150 | 175 | 55 | 211 | 260 | 18 | 220 | 330 | 20 | 240 | 438 | 190 | 179 | 250 | 180 | 215 | 83.5 |

| 型號Type | KB | KO | KP | S | ΦFA | ΦFB | ΦFC | ΦFH | FE | FL | FG | FG1 | U | T | R | WT(KG) |
|--------|-----|-----|------|--------|-----|-----|-----|------|----|----|-------|-------|------|------------|--------|--------|
| VF30 | 63 | 41 | 50 | M6x7 | 80 | 50 | 68 | 6.5 | 6 | 4 | 50.5 | | 5 | 16.3 | 14 | 1.1 |
| VF44 | 74 | 51 | 71 | M6x8 | 110 | 60 | 87 | 8.5 | 9 | 7 | 60.5 | 90 | 6 | 20.8 | 18 | 2 |
| VF49 | 79 | 56 | 80 | M6x8 | 125 | 70 | 90 | 10 | 12 | 10 | 85.5 | 115 | 8 | 28.3 | 25 | 3 |
| VF63 | 115 | 73 | 98.5 | M8x14 | 180 | 115 | 150 | 10.5 | 11 | 4 | 86 | 116 | 8 | 28.3 | 25 | 6 |
| VF72 | 118 | 83 | 114 | M8x14 | 200 | 130 | 165 | 13 | 12 | 5 | 85 | 111 | 8(8) | 31.3(33.3) | 28(30) | 8.2 |
| VF86 | 140 | 106 | 138 | M10x17 | 210 | 152 | 176 | 12.5 | 15 | 4 | 151 | 110.5 | 10 | 38.3 | 35 | 16.3 |
| VF110 | 155 | 142 | 161 | M12x21 | 280 | 170 | 230 | 13.5 | 20 | 10 | 50.5 | 172.5 | 12 | 45.3 | 42 | 32.5 |
| VF130 | 165 | 153 | 195 | M12x23 | 320 | 180 | 255 | 16 | 20 | 12 | 137.5 | 197.5 | 14 | 48.8 | 45 | 49 |
| VF150 | 175 | 180 | 218 | M14x23 | 350 | 200 | 290 | 18 | 22 | 12 | 145.5 | 220 | 14 | 53.8 | 50 | 60 |

7.3 單向輸出軸位置 Position diagram for single output shaft



7.4 接線盒位置 Position of terminal box



如對接線盒位置有特殊要求，請在下單時如圖所示來指定接線盒安裝方位。
In the case of specific requirements, when ordering, specify the position of the terminal box as shown in the diagram.

NIMRV

VF

MOTOR

SWL
T

YK系列鋁殼三相異步電動機 YK series Asynchronous Motor

YK系列電動機是最新設計的全封閉式微型三相異步電動機，具有結構簡單、運行可靠、維護方便、技術經濟指標優異等特點，廣泛適用於各種小型機床，醫療器械，電子儀器及家用電器等。YK系列電動機防護等級為E級，冷卻方法為ICO141。

His motor is a miniature three-phase asynchronous motor which designed newly and closed. It is simple in structure, reliable in running, convenient in characteristic such as being excellent of technical and economic index to safeguard, is extensively suitable for various kinds of small-scale lathes, medical equipment, electron tube instrument and household appliances IP44, E, ICO141.

使用條件

環境溫度: 隨季節而變化，但不超過40°C

海拔: 不超過1000m

額定頻率: 50Hz

額定電壓: 380V/220V

接法: Y/△

Service condition

Environment temperature:

vary with season, Below 40°C

Elevation: not above 1000m

Rated frequency: 50Hz

Voltage: 380V/220V

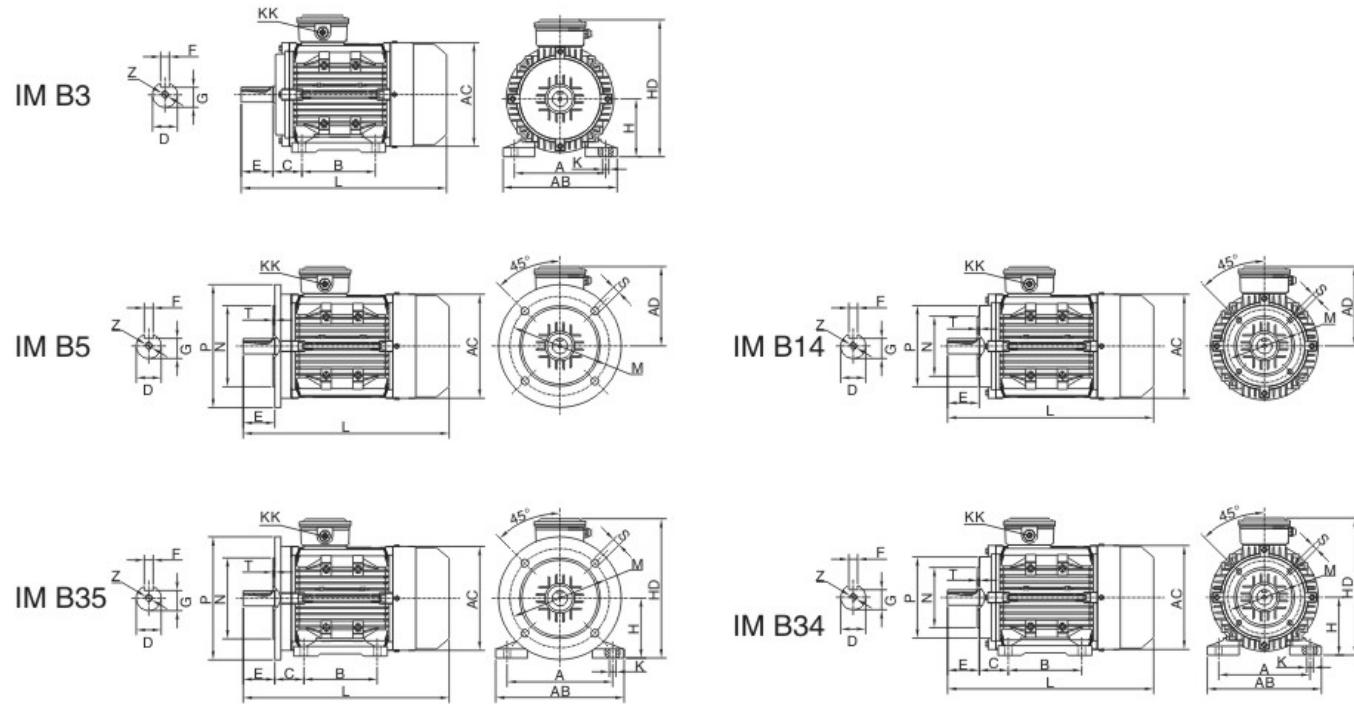
Connection: Y/△





YE2/Y2铝壳系列电机安装及外形尺寸

YE2/Y2 Aluminium series motor instruction and overall dimension



YE2/Y2铝壳B3、B5、B35电机安装及外形尺寸 Aluminium B3、B5、B35 motor instruction and overall dimension

| 机座号 Frame No. | 安装尺寸 Mounting Dimensions | | | | | | | | | | | | | 外形尺寸 Overall Dimensions | | | | | | | | | |
|------------------|--------------------------|-----|-----|----|-----|----|------|-----|----|--------|-----------|-----|-----|-------------------------|----|-----|-----|-----|-----|-----|-----|------------|------------|
| | A | B | C | D | E | F | G | H | K | Z | KK | P | M | N | S | T | AB | AC | AD | HD | L | 制动电 机长度 | 变频电 机长度 |
| 56 | 90 | 71 | 36 | 9 | 20 | 3 | 7.2 | 56 | 6 | M4×12 | 1-M20×1.5 | 120 | 100 | 80 | 7 | 3 | 110 | 112 | 78 | 134 | 200 | | |
| 63 | 100 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | M4×12 | 1-M20×1.5 | 140 | 115 | 95 | 9 | 3 | 125 | 125 | 100 | 167 | 230 | 280 | 295 |
| 71 | 112 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | M5×12 | 1-M20×1.5 | 160 | 130 | 110 | 9 | 3.5 | 140 | 142 | 110 | 184 | 260 | 305 | 317 |
| 80M | 125 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | M6×16 | 1-M20×1.5 | 200 | 165 | 130 | 12 | 3.5 | 158 | 163 | 123 | 205 | 300 | 355 | 355 |
| 90S | 140 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | M8×19 | 1-M20×1.5 | 200 | 165 | 130 | 12 | 3.5 | 175 | 175 | 130 | 220 | 310 | 380 | 377 |
| 90L | 140 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | M8×19 | 1-M20×1.5 | 200 | 165 | 130 | 12 | 3.5 | 175 | 175 | 130 | 220 | 335 | 405 | 402 |
| 100L | 160 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | M10×22 | 2-M20×1.5 | 250 | 215 | 180 | 15 | 4 | 200 | 203 | 157 | 260 | 380 | 435 | 435 |
| 112M | 190 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | M10×22 | 2-M20×1.5 | 250 | 215 | 180 | 15 | 4 | 225 | 225 | 168 | 282 | 410 | 470 | 465 |
| 132S | 216 | 140 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | M12×28 | 2-M20×1.5 | 300 | 265 | 230 | 15 | 4 | 255 | 268 | 190 | 323 | 470 | 540 | 522 |
| 132M | 216 | 178 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | M12×28 | 2-M20×1.5 | 300 | 265 | 230 | 15 | 4 | 255 | 268 | 190 | 323 | 510 | 580 | 562 |
| 160M | 254 | 210 | 108 | 42 | 110 | 12 | 37 | 160 | 15 | M12×28 | 2-M30×1.5 | 350 | 300 | 250 | 19 | 5 | 315 | 330 | 240 | 400 | 605 | | |
| 160L | 254 | 254 | 108 | 42 | 110 | 12 | 37 | 160 | 15 | M12×28 | 2-M30×1.5 | 350 | 300 | 250 | 19 | 5 | 315 | 330 | 240 | 400 | 650 | | |

YE2/Y2铝壳B14、B34电机安装及外形尺寸 Aluminium B14、B34 motor instruction and overall dimension

| 机座号 Frame No. | 安装尺寸 Mounting Dimensions | | | | | | | | | | | | | 外形尺寸 Overall Dimensions | | | | | | | | | |
|------------------|--------------------------|-----|-----|----|-----|----|------|-----|----|--------|-----------|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|-----|------------|------------|
| | A | B | C | D | E | F | G | H | K | Z | KK | P | M | N | S | T | AB | AC | AD | HD | L | 制动电 机长度 | 变频电 机长度 |
| 56 | 90 | 71 | 36 | 9 | 20 | 3 | 7.2 | 56 | 6 | M4×12 | 1-M20×1.5 | 80 | 65 | 50 | M5 | 2.5 | 110 | 112 | 78 | 134 | 200 | | |
| 63 | 100 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | M4×12 | 1-M20×1.5 | 90 | 75 | 60 | M5 | 2.5 | 125 | 125 | 100 | 167 | 230 | 280 | 295 |
| 71 | 112 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | M5×12 | 1-M20×1.5 | 105 | 85 | 70 | M6 | 2.5 | 140 | 142 | 110 | 184 | 260 | 305 | 317 |
| 80M | 125 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | M6×16 | 1-M20×1.5 | 120 | 100 | 80 | M6 | 3 | 158 | 163 | 123 | 205 | 300 | 355 | 355 |
| 90S | 140 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | M8×19 | 1-M20×1.5 | 140 | 115 | 95 | M8 | 3 | 175 | 175 | 130 | 220 | 310 | 380 | 377 |
| 90L | 140 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | M8×19 | 1-M20×1.5 | 140 | 115 | 95 | M8 | 3 | 175 | 175 | 130 | 220 | 335 | 405 | 402 |
| 100L | 160 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | M10×22 | 2-M20×1.5 | 160 | 130 | 110 | M8 | 3.5 | 200 | 203 | 157 | 260 | 380 | 435 | 435 |
| 112M | 190 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | M10×22 | 2-M20×1.5 | 160 | 130 | 110 | M8 | 3.5 | 225 | 225 | 168 | 282 | 410 | 470 | 465 |
| 132S | 216 | 140 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | M12×28 | 2-M20×1.5 | 200 | 165 | 130 | M10 | 3.5 | 255 | 268 | 190 | 323 | 470 | 540 | 522 |
| 132M | 216 | 178 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | M12×28 | 2-M20×1.5 | 200 | 165 | 130 | M10 | 3.5 | 255 | 268 | 190 | 323 | 510 | 580 | 562 |
| 160M | 254 | 210 | 108 | 42 | 110 | 12 | 37 | 160 | 15 | M12×28 | 2-M30×1.5 | 250 | 215 | 180 | M12 | 4 | 315 | 330 | 240 | 400 | 605 | | |
| 160L | 254 | 254 | 108 | 42 | 110 | 12 | 37 | 160 | 15 | M12×28 | 2-M30×1.5 | 250 | 215 | 180 | M12 | 4 | 315 | 330 | 240 | 400 | 650 | | |



SWL系列蝸輪絲杆升降機 SWL Worm Gear Screw Lifter

1. 產品圖片 Picture of Products

- ◎ 蝸輪絲杆升降機
- ◎ Worm gear screw lifter
- ◎ 速比1/5~1/36



2. 產品說明 Product Introduction

- 2.1 SWL 系列蝸輪絲杆升降機（又名千斤頂）；
 2.2 具有結構緊湊、體積小的特點；
 2.3 安裝方便、形式多；
 2.4 可靠性高、壽命長；
 2.5 具有起升、下降及借助輔件推進、翻轉等多種功能；
 2.6 可單臺使用，也可多臺組成使用；
 2.7 動力源廣泛，可用電動機或其它動力直接帶動，也可以用手動；
 2.8 通常用于低速重載的場合。廣泛應用于冶金、機械、建築、水利、醫療、化工等各個行業。

- 2.1 SWL series worm gear screw lifter (other name is Jack);
 2.2 Compact structure, small size;
 2.3 Easy mounting, varied types;
 2.4 High reliability. Long service life;
 2.5 With the function of ascending, descending, thrusting, overturning;
 2.6 Can be applied in one unit or multiple units;
 2.7 Wide motivity. It can be drive by electrical motor and manual force;
 2.8 It is usually used in low speed situation, widely used in the fields of metallurgy, mechanical, construction, chemical, irrigation works, mediat treatment.

3. 型號說明 Model Introduction

| SWL D 100 - 12 - A R - 300 - B - P | |
|---|---|
| SWL | 產品代碼: SWL-蝸輪絲杆升降機 Products code: SWL-worm gear linear actuator |
| D | 輸入軸聯接方式: D-帶電機法蘭, 無代碼-基本型 Connector of input shaft: D-With motor frange, Non-code-basic |
| 100 | 規格用蝸輪副中心距: 100 Specification expressed by the center distance of two pair worm gear 100 |
| 12 | 傳動比: 12 Ratio: 12 |
| A | 安裝方式代碼: A、B-基本型, C、D-止旋構造型, E、F-活動螺母構造型。詳見“安裝方式” Mounting option code: A、B-Basic Model, C、D-Screw fluctuate without rotation, E、F-Screw rotate without fluctuation. More information from mounting option |
| R | 絲杆頭部型式代碼: R型(圓柱式)、H型(栓孔式)、S型(螺紋式)、T型(頂板式)。詳見“產品圖片” Code of screw head: R-Column type, H-Bolt hole type, S-Screw type, T-Copinhg type |
| 300 | 絲杆行程: 共有100、200、300、400、500、600、800、1000mm8種規格, 根據使用情況選擇, 如需要其它長度行程, 也可定做 Total 8 species model: 100、200、300、400、500、600、700、800、1000mm. Choose according to using situation. If other model needed, canbe made to order |
| B | 軸指向: SWL系列共有A、B、C三種, SWLD系列共有A、B、C、D四種。詳見“軸指向表示” Shaft directionB: SWL series have A, B and C three species, SWLD series have A, B, C and D four species |
| P | 護管: P帶護管, 無代碼不帶護管 Safeguard pipe: With safeguard pipe, Without safeguard pipe |

NIMRV

VF

MOTOR

SWL

T



4. 安裝方式 Mounting Option

| 基本型 Basic Model | 止旋構造型 Screw fluctuate without rotation | 活動螺母構造型 Screw rotate without fluctuation |
|--------------------|---|---|
| A | B | C |
| | | |
| D | E | F |
| | | |

說明:

- 1、基本形式：螺母(蜗輪)轉動絲杆上下移動，此為普通型升降機安裝方式。
※注意：絲杆在升降時，會產生旋轉力，所以必須做好防止旋轉的措施。
- 2、止旋構造型：適用於頂端無連接下運轉等各種不能實現防止旋轉的場合。
- 3、若想在有限的空間增長行程，可選用活動螺母構造型。此構造為絲杆旋轉，活動螺母移動。若行程較長時，軸端應採用支撐方式，可得到很好的傳動效果。

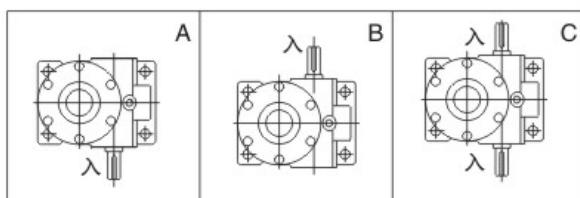
Explain:

- 1、Basic Model: Screw fluctuate with rotation. This is the installation for basic screw lifter.
※Notice: There will be rotation force when screw is ascending and descending. So it's need to prevent rotation.
- 2、Screw fluctuate without rotation: work under the situation than the shofe and hav't connection and the life can't rotate.
- 3、Screw rotate without fluctuation: To get the longer travel, this prodel screw rotate without fluctuation is an option, which screw rotate and nut move. If longer travel shaft and with bracket will archien high efficinc.

5. 軸指向表示 Express of Shaft Orientation

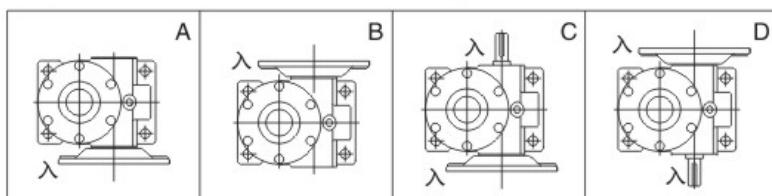
5.1 SWL系列軸指向表示

5.1 Express of SWL series bearing orientation



5.2 SWLD系列軸指向表示

5.2 Express of SWLD series bearing orientation





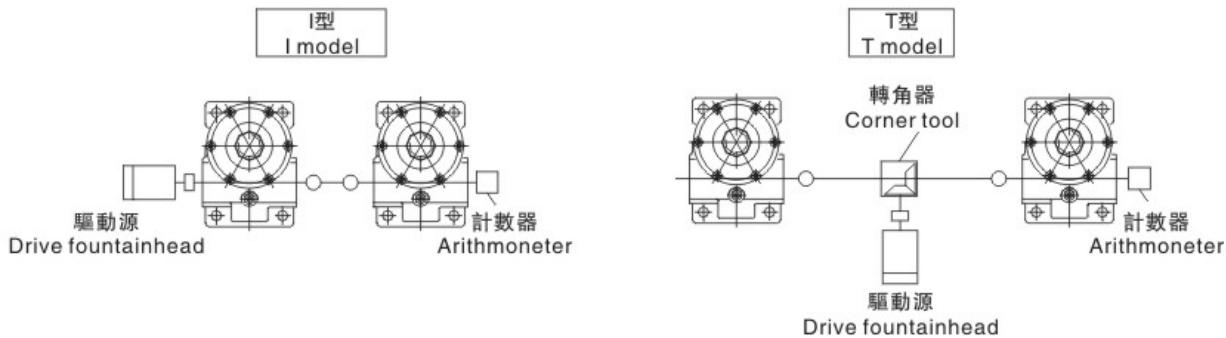
6. 承載能力及選型參數 Capacity and Model Selection

| 型號規格 Model size | 傳動比 Ratio | 入力軸轉速 1800r/min Input shaft revolution speed 1800r/min | | | 入力軸轉速 1500r/min Input shaft revolution speed 1500r/min | | | 入力軸轉速 1200r/min Input shaft revolution speed 1200r/min | | | 入力軸轉速 900r/min Input shaft revolution speed 900r/min | | | 入力軸轉速 600r/min Input shaft revolution speed 600r/min | | | 入力軸轉速 300r/min Input shaft revolution speed 300r/min | | |
|--------------------|--------------|--|-------------------------------------|---|--|-------------------------------------|---|--|-------------------------------------|---|--|-------------------------------------|---|--|-------------------------------------|---|--|-------------------------------------|---|
| | | 入功率 (kw) Model size (kw) | 起升力 (kg) Lifter force (kg) | 起升速度 (m/min) Hoist speed (m/min) | 入功率 (kw) Model size (kw) | 起升力 (kg) Lifter force (kg) | 起升速度 (m/min) Hoist speed (m/min) | 入功率 (kw) Model size (kw) | 起升力 (kg) Lifter force (kg) | 起升速度 (m/min) Hoist speed (m/min) | 入功率 (kw) Model size (kw) | 起升力 (kg) Lifter force (kg) | 起升速度 (m/min) Hoist speed (m/min) | 入功率 (kw) Model size (kw) | 起升力 (kg) Lifter force (kg) | 起升速度 (m/min) Hoist speed (m/min) | 入功率 (kw) Model size (kw) | 起升力 (kg) Lifter force (kg) | 起升速度 (m/min) Hoist speed (m/min) |
| | | | | | | | | | | | | | | | | | | | |
| SWL35 | 1/5 | 0.69 | 500 | 1.80 | 0.64 | 550 | 1.50 | 0.65 | 700 | 1.20 | 0.63 | 900 | 0.90 | 0.46 | 1000 | 0.60 | 0.37 | 1000 | 0.30 |
| | 1/10 | 0.37 | 500 | 0.90 | 0.37 | 550 | 0.75 | 0.37 | 700 | 0.60 | 0.37 | 950 | 0.45 | 0.37 | 1000 | 0.30 | 0.19 | 1350 | 0.15 |
| | 1/20 | 0.37 | 600 | 0.45 | 0.37 | 700 | 0.38 | 0.37 | 900 | 0.30 | 0.37 | 1200 | 0.23 | 0.19 | 1350 | 0.15 | 0.19 | 1350 | 0.08 |
| SWL40 | 1/6 | 0.98 | 700 | 1.80 | 0.93 | 800 | 1.50 | 0.88 | 950 | 1.20 | 0.91 | 1300 | 0.90 | 0.84 | 1800 | 0.60 | 0.42 | 1800 | 0.30 |
| | 1/12 | 0.66 | 950 | 0.90 | 0.64 | 1100 | 0.75 | 0.61 | 1300 | 0.60 | 0.57 | 1650 | 0.45 | 0.46 | 2000 | 0.30 | 0.37 | 2000 | 0.15 |
| | 1/24 | 0.37 | 950 | 0.45 | 0.37 | 1100 | 0.38 | 0.37 | 1300 | 0.30 | 0.37 | 1650 | 0.23 | 0.37 | 2000 | 0.15 | 0.19 | 2000 | 0.08 |
| SWL50 | 1/6 | 1.39 | 900 | 1.80 | 1.28 | 1000 | 1.50 | 1.24 | 1200 | 1.20 | 1.16 | 1500 | 0.90 | 0.87 | 1700 | 0.60 | 0.54 | 2100 | 0.30 |
| | 1/12 | 1.10 | 1350 | 0.90 | 1.01 | 1500 | 0.75 | 0.98 | 1800 | 0.60 | 0.87 | 2150 | 0.45 | 0.58 | 2150 | 0.30 | 0.37 | 2500 | 0.15 |
| | 1/24 | 0.78 | 1800 | 0.45 | 0.72 | 2000 | 0.38 | 0.69 | 2400 | 0.30 | 0.55 | 2550 | 0.23 | 0.42 | 2900 | 0.15 | 0.37 | 2850 | 0.08 |
| SWL60 | 1/8 | 2.12 | 1300 | 1.80 | 1.97 | 1450 | 1.50 | 1.85 | 1700 | 1.20 | 1.72 | 2100 | 0.90 | 1.66 | 3050 | 0.60 | 1.31 | 4800 | 0.30 |
| | 1/16 | 1.12 | 1300 | 0.90 | 1.04 | 1450 | 0.75 | 0.98 | 1700 | 0.60 | 0.95 | 2200 | 0.45 | 0.87 | 3050 | 0.30 | 0.69 | 4800 | 0.15 |
| | 1/32 | 0.80 | 1750 | 0.45 | 0.75 | 1950 | 0.38 | 0.69 | 2250 | 0.30 | 0.64 | 2800 | 0.23 | 0.63 | 4100 | 0.15 | 0.48 | 6400 | 0.08 |
| SWL60B | 1/8 | 2.00 | 1300 | 1.80 | 1.86 | 1450 | 1.50 | 1.75 | 1700 | 1.20 | 1.62 | 2100 | 0.90 | 1.57 | 3050 | 0.60 | 1.24 | 4800 | 0.30 |
| | 1/16 | 1.06 | 1300 | 0.90 | 0.98 | 1450 | 0.75 | 0.93 | 1700 | 0.60 | 0.89 | 2200 | 0.45 | 0.83 | 3050 | 0.30 | 0.65 | 4800 | 0.15 |
| | 1/32 | 0.75 | 1750 | 0.45 | 0.70 | 1950 | 0.38 | 0.65 | 2250 | 0.30 | 0.61 | 2800 | 0.23 | 0.59 | 4100 | 0.15 | 0.46 | 6400 | 0.08 |
| SWL70 | 1/10 | 2.66 | 1400 | 1.80 | 2.42 | 1850 | 1.50 | 2.25 | 1950 | 1.20 | 2.12 | 2450 | 0.90 | 1.93 | 3350 | 0.60 | 1.41 | 4900 | 0.30 |
| | 1/20 | 1.42 | 1600 | 0.90 | 1.47 | 1850 | 0.75 | 1.37 | 2250 | 0.60 | 1.28 | 2800 | 0.45 | 1.18 | 3850 | 0.30 | 0.86 | 5600 | 0.15 |
| | 1/40 | 1.14 | 2400 | 0.45 | 1.17 | 2800 | 0.38 | 1.09 | 3350 | 0.30 | 1.07 | 4400 | 0.23 | 0.93 | 5750 | 0.15 | 0.69 | 8400 | 0.08 |
| SWL100 | 1/12 | 3.62 | 1850 | 1.80 | 3.51 | 2150 | 1.50 | 3.39 | 2600 | 1.20 | 3.18 | 3250 | 0.90 | 2.94 | 4500 | 0.60 | 2.09 | 6400 | 0.30 |
| | 1/18 | 2.65 | 1900 | 1.20 | 2.68 | 2300 | 1.00 | 2.57 | 2750 | 0.80 | 2.45 | 3500 | 0.60 | 2.19 | 4700 | 0.40 | 1.56 | 6700 | 0.20 |
| | 1/36 | 1.66 | 2200 | 0.60 | 1.63 | 2600 | 0.50 | 1.60 | 3200 | 0.40 | 1.47 | 3900 | 0.30 | 1.36 | 5400 | 0.20 | 1.20 | 9600 | 0.10 |
| SWL120 | 1/12 | 4.15 | 1975 | 1.80 | 4.02 | 2300 | 1.50 | 3.81 | 2725 | 1.20 | 3.80 | 3625 | 0.90 | 3.48 | 4975 | 0.60 | 2.48 | 7050 | 0.30 |
| | 1/18 | 3.20 | 2125 | 1.20 | 3.20 | 2550 | 1.00 | 3.04 | 3025 | 0.80 | 3.03 | 4025 | 0.60 | 2.74 | 5450 | 0.40 | 1.94 | 7725 | 0.20 |
| | 1/36 | 2.14 | 2625 | 0.60 | 2.07 | 3050 | 0.50 | 1.98 | 3650 | 0.40 | 1.99 | 4875 | 0.30 | 1.80 | 6600 | 0.20 | 1.40 | 10300 | 0.10 |
| SWL130 | 1/7 | 9.47 | 2100 | 3.60 | 9.17 | 2450 | 3.00 | 9.02 | 2850 | 2.40 | 8.58 | 4000 | 1.80 | 8.20 | 5450 | 1.20 | 5.84 | 7750 | 0.60 |
| | 1/14 | 5.76 | 2350 | 1.80 | 5.71 | 2800 | 1.50 | 5.57 | 3300 | 1.20 | 5.39 | 4550 | 0.90 | 5.06 | 6200 | 0.60 | 3.57 | 8750 | 0.30 |
| | 1/28 | 4.07 | 3050 | 0.90 | 3.89 | 3500 | 0.75 | 3.91 | 4100 | 0.60 | 3.65 | 5850 | 0.45 | 3.48 | 7800 | 0.30 | 2.45 | 11000 | 0.15 |
| SWL150 | 1/8 | 16.3 | 3500 | 3.60 | 16.1 | 4000 | 3.00 | 15.8 | 5400 | 2.40 | 15.1 | 7100 | 1.80 | 14.8 | 9850 | 1.20 | 9.70 | 12950 | 0.60 |
| | 1/16 | 11.7 | 4300 | 1.80 | 11.6 | 5400 | 1.50 | 10.5 | 7200 | 1.20 | 11.00 | 9450 | 0.90 | 9.62 | 11800 | 0.60 | 7.08 | 17350 | 0.30 |
| | 1/32 | 8.65 | 5500 | 0.90 | 9.55 | 6800 | 0.75 | 7.35 | 10000 | 0.60 | 7.53 | 14300 | 0.45 | 7.02 | 15750 | 0.30 | 5.80 | 26050 | 0.15 |

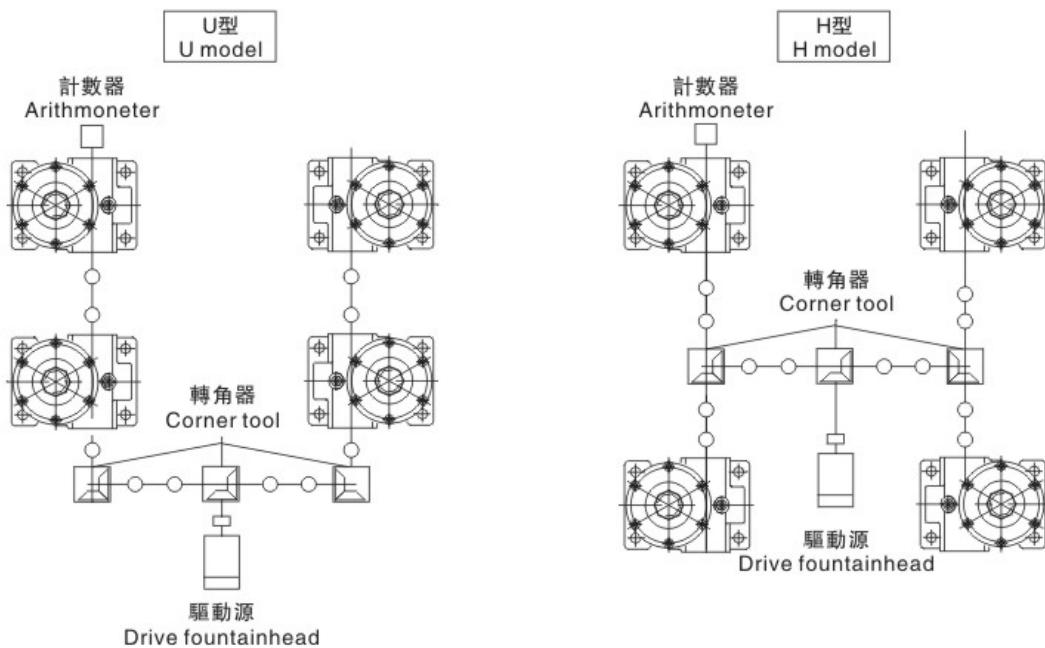
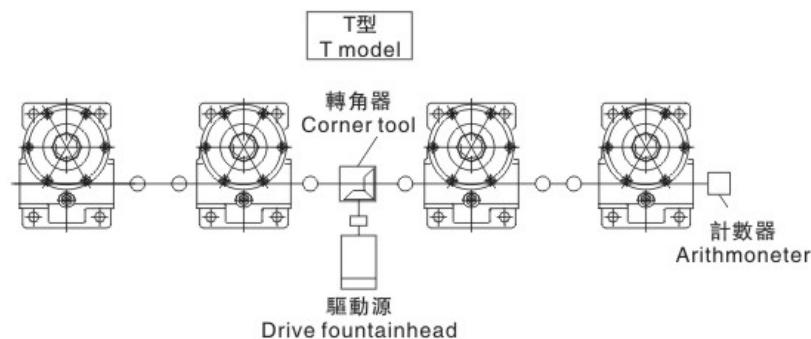


7. 應用示例 Application Example

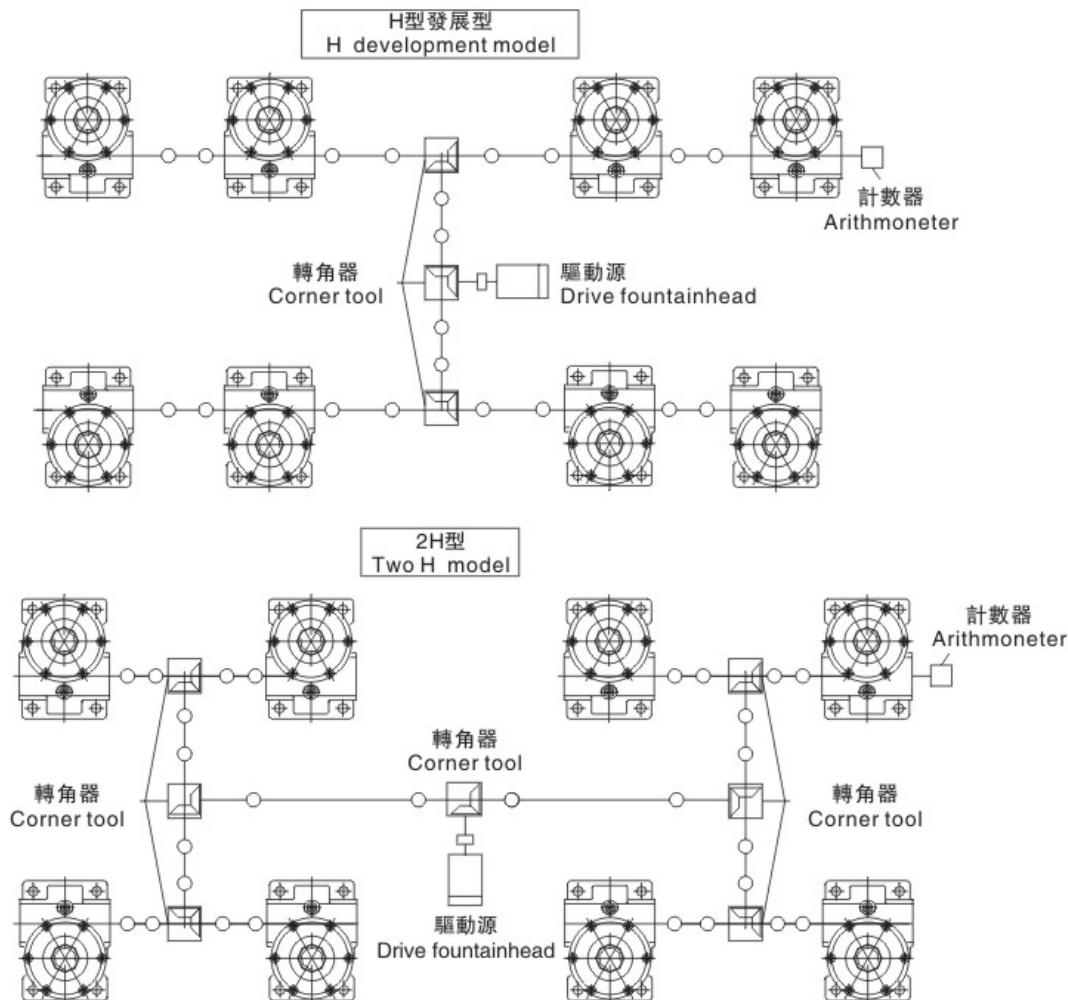
7.1 兩臺聯動 Two sets linkage



7.2 四臺聯動 Four sets linkage



7.3 八臺聯動 Eight sets linkage



8. 升降機選型

8.1 總當量載荷計算

$$W_s = W_{max} \times f_s$$

W_s --當量載荷 W_{max} --最大載荷 f_s --使用系數 (詳見附表1)

表1 使用系數 f_s Table 1 using coefficient(f_s)

| 使用工況 using situation | 平穩載荷，負荷慣性小 Smooth load; light load inertia | 輕微衝擊載荷，負荷慣性中等 light shock load; mid load inertia | 強衝擊負荷，負荷慣性大 strong shock load; heavy load inertia |
|---------------------------|---|---|--|
| 使用系數 using coefficient | 1.0~1.3 | 1.3~1.5 | 1.5~3.0 |

8.2 單臺升降機的當量載荷的計算

$$W = W_s / (S \times f_d)$$

W --單臺當量載荷 W_s --當量載荷 S --聯動臺數 f_d --聯動系數 (詳見附表2)

表2 聯動系數 f_d Table 2 linkage coefficient(f_d)

| 聯動臺數 Linkage quantity | 1 | 2 | 3 | 4 | 5~8 |
|---------------------------|---|------|-----|------|-----|
| 使用系數 Using coefficient | 1 | 0.95 | 0.9 | 0.85 | 0.8 |



8.3 絲杆行程選定

在充分考慮絲杆運動慣性、各種頂端輸出部件等各種情況，選擇有充分餘量的絲杆行程。

8.4 暫定升降機型號

根據載重、升降速度、行程、驅動源暫時選定升降機型號（詳情可參考“6、承載能力與選型參數”）。

8.5 絲杆計算 (詳見表3, 絲杆行程用L表示, 單位(unit) : mm)

表3 絲杆計算 Table 3 screw calculate

| 型號 Model | 絲杆直徑 Screw dia | 護管長 length of protect pipe | 絲杆頭部S型 "S" type screw end | | 絲杆頭部H型 "H" type screw end | | 絲杆頭部R型 "R" type screw end | | 絲杆頭部T型 "T" type screw end | |
|-------------|-------------------|----------------------------------|------------------------------|----------|------------------------------|-------------|------------------------------|----------|------------------------------|----------|
| | | | 總長=L+SC | 牙長=總長-SD | 總長=L+HB+HD | 牙長=總長-HB-HE | 總長=L+RB | 牙長=總長-RC | 總長=L+TE | 牙長=總長-TF |
| SWL35 | Tr26×5 | L+55 | L+150 | 總長-40 | L+20+165 | 總長-55-20 | L+165 | 總長-55 | L+135 | 總長-25 |
| SWL40 | Tr32×6 | L+60 | L+180 | 總長-50 | L+25+195 | 總長-65-25 | L+195 | 總長-65 | L+160 | 總長-30 |
| SWL50 | Tr38×6 | L+60 | L+180 | 總長-50 | L+25+195 | 總長-65-25 | L+195 | 總長-65 | L+160 | 總長-30 |
| SWL60 | Tr46×8 | L+65 | L+220 | 總長-60 | L+32+255 | 總長-95-32 | L+225 | 總長-65 | L+200 | 總長-40 |
| SWL60B | Tr52×8 | L+65 | L+220 | 總長-60 | L+32+255 | 總長-95-32 | L+225 | 總長-65 | L+210 | 總長-50 |
| SWL70 | Tr65×10 | L+75 | L+260 | 總長-80 | L+35+295 | 總長-115-35 | L+250 | 總長-70 | L+235 | 總長-55 |
| SWL100 | Tr75×12 | | L+300 | 總長-80 | L+44+355 | 總長-135-44 | L+295 | 總長-75 | L+285 | 總長-65 |
| SWL120 | Tr80×12 | | L+360 | 總長-100 | L+54+410 | 總長-150-54 | L+355 | 總長-95 | L+330 | 總長-70 |
| SWL130 | Tr90×14 | | L+435 | 總長-120 | L+64+480 | 總長-165-64 | L+430 | 總長-115 | L+390 | 總長-75 |
| SWL150 | Tr100×16 | | L+495 | 總長-150 | L+70+545 | 總長-200-70 | L+485 | 總長-140 | L+445 | 總長-100 |

8.6 絲杆穩定性校核

$$P_{cr}=fm \times (d^2/L_a)^2$$

應確保 $P_{cr} > W \times S_f$ (一般 $S_f=4$)

P_{cr} --絲杆臨界載荷(N) fm --長度系數(詳見附表4) d --絲杆底徑(mm)(詳見附表5)

L_a --作用點間距離(mm) W --單臺升降機當量載荷(N) S_f --安全系數(一般取4)

表4 長度系數(fm) Table 4 Length coefficient

| | | |
|--|---|--|
| | | |
| 兩端支撐 $fm=10 \times 10^4$ Two ends sustation | 底座固定軸端自由 $fm=2.5 \times 10^4$ One shaft end fixed the other free | 底座固定軸端支撑或固定 $fm=20 \times 10^4$ Base shaft end fixed the other side uphold or fixed |

8.7 絲杆轉速校核

$$nc=96 \times 10^6 \times fn \times d/L_b^2$$

$ns=nl/i$ 應確保 $nc > ns$

nc --絲杆許用轉速(r/min) ns --絲杆回轉轉速(r/min) d --絲杆底徑(mm) i --減速比

nl --輸入軸回轉轉速(r/min) fn --支撑系數(詳見附表6) L_b --支撑間距離(mm)

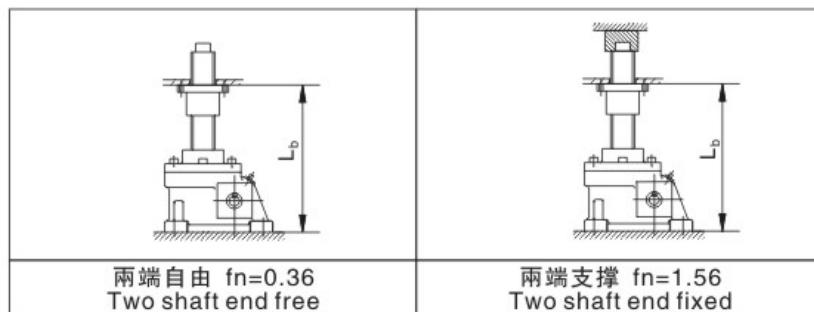
8.8 輸入功率校核

$P = n_1 \times p_1 \times w \times 10^{-3} / (60 \times i \times \eta)$ 應確保 $P < P_{\text{額}}$
 p_1 --所需輸入功率(KW) n_1 --輸入軸回轉轉速(r/min)
 w --當量載荷(kN) i --減速比 η --綜合效率

表5 絲杆底徑D Table 5 Diameter of screw bottom

| 型號 Model | SWL35 | SWL40 | SWL50 | SWL60 | SWL60B | SWL70 | SWL100 | SWL120 | SWL130 | SWL150 |
|-------------------------------------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|
| 絲杆底徑 Diameter of screwing bottom | 20.5 | 25 | 31 | 37 | 43 | 54 | 62 | 67 | 74 | 82 |

表6 支撐系數 fn Table 6 Sustaintion coefficient(fn)



8. Model Selection for Screw Lifter

8.1 Total current load calculate

$$W_s = W_{\max} \times f_s$$

W_s --current load W_{\max} --max load f_s --using coefficient (more information from table 1)

8.2 Current load calculate of unit screw lifter

$$W = W_s / (S \times f_d)$$

W --unit current load W_s --current load S --linkage quantity

f_d --linkage coefficient (more information from table 2)

8.3 Stroke of screw option

Choose adequate stroke of screw with concerning enough screw movement inertia...

8.4 Choose screw model

Choose screw model according to capacity, lifting speed, stroke and driveing fountainhead.

8.5 Screw calculate (more information from table 3)

8.6 Screw stability check

$$P_{cr} = f_m \times (d^2 / L_a)^2 \quad \text{Should insure } P_{cr} > w \times S_f \text{ (usual } S_f = 4\text{)}$$

P_{cr} --Screw critical loading(N) f_m --Length coefficient (more information from table 4)

d --diameter of screw bottom(mm) (more information from table 5) L_a --working length(mm)

w --Current load of unit screw lifter(N) S_f --security coefficient (usual $S_f = 4$)

8.7 Screw speed check

$$n_c = 96 \times 10^6 \times f_n \times d / L_b^2$$

$n_s = n_l / i$ should insure $n_c > n_s$

n_c --screw allowed speed(r/min); n_s --screw screwing speed(r/min);

d--diameter of screw bottom(mm); i--ratio; n_l--input shaft screwing speed(r/min);
 f_n--Sustation coefficient (more information from table 6); L_b--the distance between sustation(mm).

8.8 Input power check

$$P = n_l \times p_1 \times w \times 10^{-3} / (60 \times i \times \eta) \text{ should insure } P < P_{rated}$$

P--needed input power(KW); p₁--axial pitch distance(mm) n_l--input shaft screwing speed(r/min);
 w--current load(KN); i--ratio η--general efficiency

9. 注意事項

9.1 請嚴格按承載能力表選擇合適的速比和與之對應的具有充分裕度的載荷的升降機；

9.2 升降機工作時應控制減速機表面和升降螺母表面溫度在-15°C~80°C；

9.3 升降機不得連續運轉，單臺升降機的負荷時間率(T%)以30分鐘為單位計算，不得超過20%；

$$\text{負荷率 T\%} = \frac{\text{1動作周期的工作時間}}{\text{1動作周期的工作時間} + \text{1動作周期的停歇時間}} \times 100\%$$

9.4 必須保證有充足的驅動源動力；

9.5 升降機理論上有自鎖功能，但在振動衝擊較大的場合會造成自鎖功能失靈，請務必加制動裝置；

9.6 升降機使用環境：

| | |
|--------------------------------|---|
| 使用環境 Usingsituation | 室內無雨水侵入的場所 Norain and water |
| 周圍空氣 Ambient air | 灰塵為一般工廠狀況 Dust: usual condition for mill |
| 環境溫度 Ambient temperature | -15°C~40°C |
| 相對濕度 Comparatively humidity | 85%以下 Below 85% |

9.7 升降機工作時一般不允許有橫向載荷，若有橫向載荷時，請加導向裝置。

9. Notes

9.1 Select the model with proper ratio and load;

9.2 The surface temperation of speed reducer and nut should be controlled in -15°C~80°C, when the screw lifter is working;

9.3 The screw lifter cannot work all the time. The unit is thirty mins for duty ratio of unit one and can not exceed 20%;

$$\text{Duty ratio (T\%)} = \frac{\text{Time under working/cycle}}{\text{Time under working/cycle} + \text{interval/cycle}} \times 100\%$$

9.4 Insure adequate drive fountainhead;

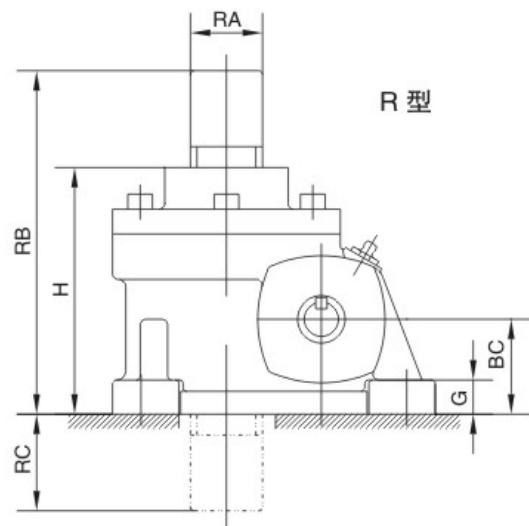
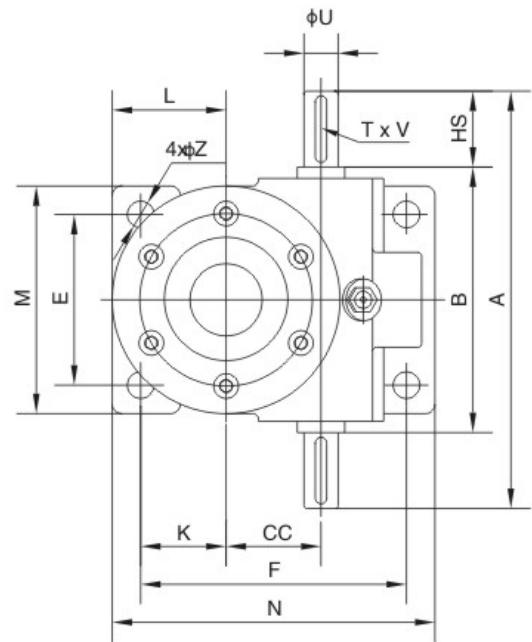
9.5 Theoretically screw has self-lock function, but the self-lock function may not work in heavy shock condition;

9.6 Using situation for screw lifter;

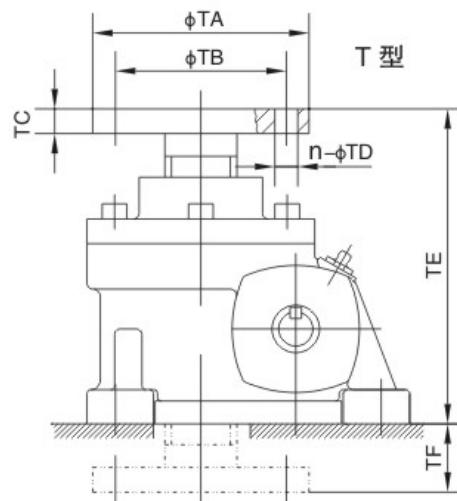
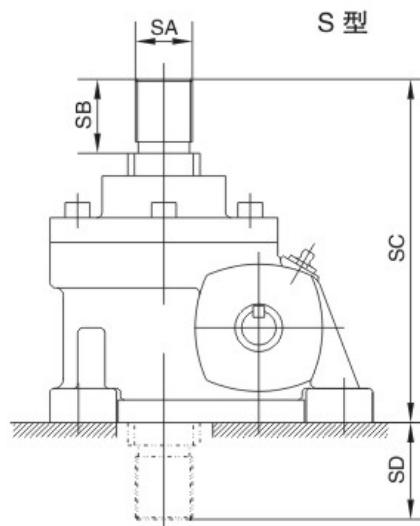
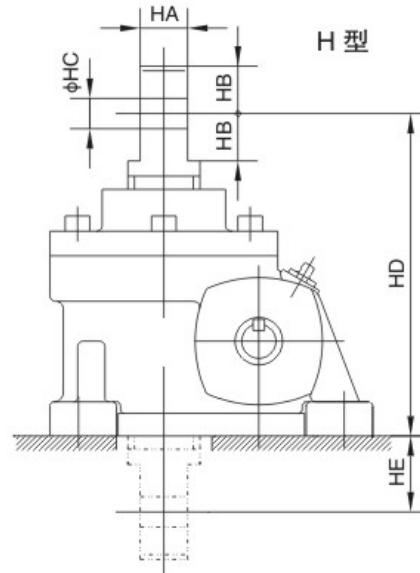
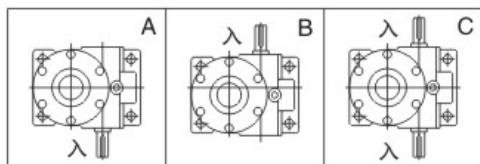
9.7 Transverse load is not allowed when screw lifter is working. If transverse load occurred, pls add direction setting.

10. SWL系列蝸輪絲杆升降機外形安裝尺寸

Mounting Dimensions of SWL Series Worm Gear Screw Lifter



軸指向表示 SHAFT DIRECTION



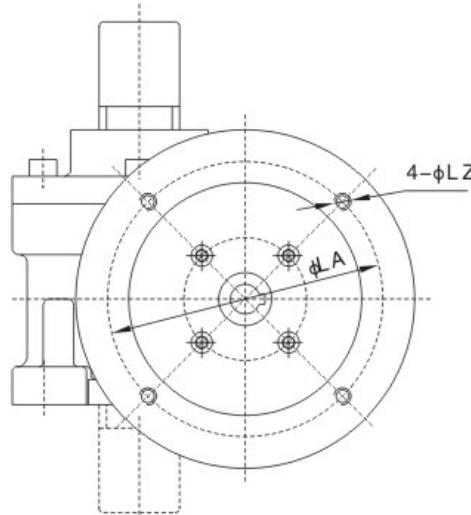
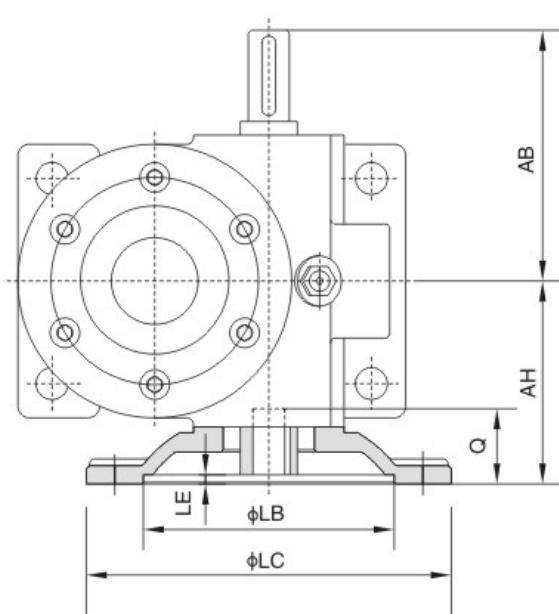
NMRV
VF
MOTOR
SWL
T



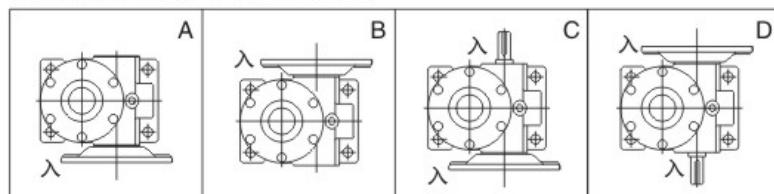
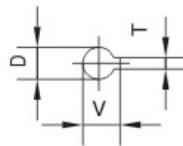
| 型號規格 Model size | A B HS | E F Z | BC G H | CC K | Tr | L M N | U TxV | 絲杆頭部型式 Type of screw head | | | | | | |
|--------------------|--------------|-------------|--------------|---------|----------|-------------|----------------|---------------------------|----------------|----------|---------|----------------|----------------|--------------|
| | | | | | | | | R型 | | H型 | | S型 | | T型 |
| | | | | | | | | RA RB RC | HA HB HC | HD HE | SA | SB SC SD | TA TB TC | n-TD |
| SWL35 | 170 | 66 | 40 | 35 | Tr26x5 | 50 | 15 5 x 3 | 26 | 16 | 165 | M16x1.5 | 28 | 88 | 4- ϕ 10 |
| | 110 | 111 | 15 | 38 | | 90 | | 165 | 20 | 55 | | 150 | 70 | 135 |
| | 30 | 12 | 110 | | | 135 | | 55 | 12 | | | 40 | 10 | 25 |
| SWL40 | 220 | 80 | 50 | 40 | Tr32x6 | 57 | 18 6 x 3.5 | 32 | 20 | 195 | M22x1.5 | 32 | 98 | 4- ϕ 10 |
| | 140 | 125 | 18 | 42 | | 110 | | 195 | 25 | 65 | | 180 | 80 | 160 |
| | 40 | 12 | 130 | | | 155 | | 65 | 14 | | | 50 | 13 | 30 |
| SWL50 | 220 | 90 | 50 | 50 | Tr38x6 | 60 | 22 6 x 3.5 | 38 | 25 | 195 | M30x1.5 | 35 | 114 | 4- ϕ 12 |
| | 140 | 140 | 18 | 45 | | 120 | | 195 | 25 | 65 | | 180 | 90 | 160 |
| | 40 | 14 | 130 | | | 170 | | 65 | 16 | | | 50 | 13 | 30 |
| SWL60 | 256 | 100 | 60 | 60 | Tr46x8 | 90 | 25 8 x 4 | 46 | 32 | 255 | M33x1.5 | 40 | 138 | 4- ϕ 14 |
| | 176 | 190 | 20 | 70 | | 140 | | 225 | 32 | 95 | | 220 | 100 | 200 |
| | 40 | 18 | 160 | | | 230 | | 65 | 20 | | | 60 | 16 | 40 |
| SWL60B | 264 | 110 | 60 | 60 | Tr52x8 | 90 | 25 8 x 4 | 52 | 36 | 255 | M39x1.5 | 45 | 148 | 4- ϕ 18 |
| | 184 | 190 | 20 | 70 | | 150 | | 225 | 32 | 95 | | 220 | 110 | 210 |
| | 40 | 18 | 160 | | | 230 | | 65 | 24 | | | 60 | 20 | 50 |
| SWL70 | 316 | 140 | 70 | 70 | Tr65x10 | 95 | 28 8 x 4 | 65 | 44 | 295 | M45x1.5 | 55 | 178 | 4- ϕ 21 |
| | 216 | 210 | 25 | 75 | | 180 | | 250 | 35 | 115 | | 260 | 125 | 235 |
| | 50 | 18 | 180 | | | 250 | | 70 | 26 | | | 80 | 25 | 55 |
| SWL100 | 390 | 190 | 85 | 100 | Tr75x12 | 110 | 32 10 x 5 | 75 | 56 | 355 | M60x2 | 65 | 188 | 4- ϕ 21 |
| | 260 | 260 | 30 | 85 | | 230 | | 295 | 44 | 135 | | 300 | 140 | 285 |
| | 65 | 22 | 220 | | | 310 | | 75 | 35 | | | 80 | 28 | 65 |
| SWL120 | 420 | 210 | 100 | 120 | Tr80x12 | 130 | 35 10 x 5 | 80 | 60 | 410 | M64x2 | 70 | 218 | 4- ϕ 25 |
| | 290 | 305 | 30 | 105 | | 260 | | 355 | 54 | 150 | | 360 | 170 | 330 |
| | 65 | 22 | 260 | | | 355 | | 95 | 38 | | | 100 | 30 | 70 |
| SWL130 | 480 | 240 | 120 | 130 | Tr90x14 | 160 | 45 14 x 5.5 | 90 | 70 | 480 | M76x2 | 75 | 248 | 4- ϕ 27 |
| | 340 | 355 | 30 | 130 | | 300 | | 430 | 64 | 165 | | 435 | 200 | 390 |
| | 70 | 22 | 315 | | | 415 | | 115 | 45 | | | 120 | 32 | 75 |
| SWL150 | 550 | 250 | 125 | 150 | Tr100x16 | 170 | 50 14 x 5.5 | 100 | 80 | 545 | M90x2 | 100 | 358 | 6- ϕ 27 |
| | 360 | 385 | 35 | 135 | | 320 | | 485 | 70 | 200 | | 495 | 280 | 445 |
| | 95 | 27 | 345 | | | 455 | | 140 | 55 | | | 150 | 35 | 100 |

11. SWLD系列蝸輪絲杆升降機外形安裝尺寸

Mounting Dimensions of SWLD Series Worm Gear Screw Lifter



軸指向表示 SHAFT DIRECTION



| 型號規格 Model size | 法蘭規格 Flange size | AB | AH | LA | LB | LC | LE | LZ | D | Q | TxV |
|--------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|---------|
| SWLD40 | 71B5 | 110 | 72 | 130 | 110 | 160 | 4 | M8 | Φ14 | 33 | 5x16.3 |
| SWLD50 | 71B5 | 110 | 80 | 130 | 110 | 160 | 4 | M8 | Φ14 | 33 | 5x16.3 |
| SWLD60 | 80B5 | 128 | 100 | 165 | 130 | 200 | 4.5 | M10 | Φ19 | 43 | 6x21.8 |
| | 90B5 | | | | | | | | Φ24 | 53 | 8x27.3 |
| SWLD60B | 80B5 | 132 | 100 | 165 | 130 | 200 | 4.5 | M10 | Φ19 | 43 | 6x21.8 |
| | 90B5 | | | | | | | | Φ24 | 53 | 8x27.3 |
| SWLD70 | 90B5 | 158 | 120 | 165 | 130 | 200 | 4.5 | M10 | Φ24 | 53 | 8x27.3 |
| SWLD100 | 100/112B5 | 195 | 150 | 215 | 180 | 250 | 5 | M12 | Φ28 | 63 | 8x31.3 |
| SWLD120 | 100/112B5 | 210 | 165 | 215 | 180 | 250 | 5 | M12 | Φ28 | 63 | 8x31.3 |
| SWLD130 | 132B5 | 240 | 194 | 265 | 230 | 300 | 5 | M16 | Φ38 | 83 | 10x41.3 |
| SWLD150 | 132B5 | 275 | 218 | 265 | 230 | 300 | 5 | M16 | Φ38 | 83 | 10x41.3 |

NIMRV

VF

MOTOR

SWL

T



T系列螺旋傘齒輪轉向器 T Series Spiral Bevel Redirector

1. 產品圖片 Picture of Products

- ◎ 螺旋傘齒輪轉向器
- ◎ Spiral bevel gear cenits
- ◎ 速比1/1~5/1



T...I-LR(O)



T..D-LR(O)



T...I-UD(O)



T..U-LR(O)

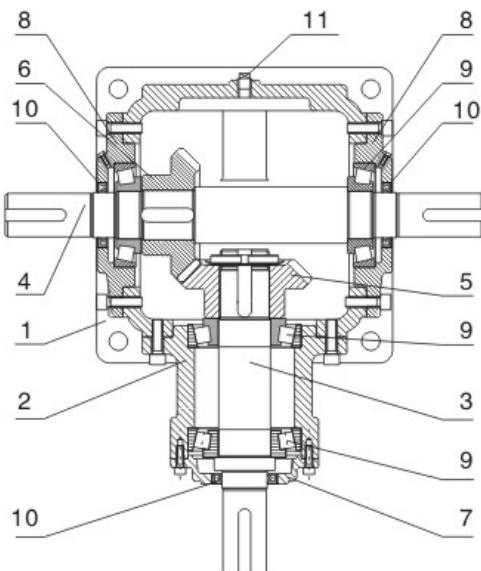


2. 產品概述 Product Overview

1. T系列螺旋傘齒輪轉向器，標準化、多品種，速比1:1、1.5:1、2:1、2.5:1、3:1、4:1、5:1全部為實際傳動比。平均率98%。
2. 有單軸、雙橫軸、單縱軸、雙縱軸可選。
3. 螺旋錐齒輪可以正反運轉，低速或高速傳動平穩，而且噪聲低、振動小、承受力大。
4. 當速比不為1:1時，橫軸輸入、縱軸輸出為減速，縱軸輸入、橫軸輸出為增速。

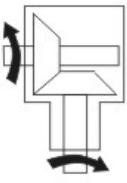
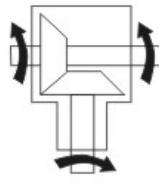
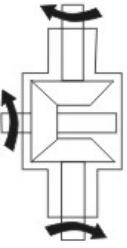
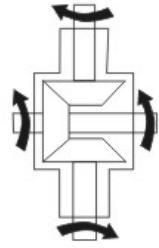
1. T Series spiral bevel redirector with various types are standardized, all ratios of 1:1, 1.5:1, 2:1, 2.5:1, 3:1, 4:1 and 5:1 are actual ones. Average efficiency is 98%.
2. There are one input shaft, two input shafts, unilateral output shaft and double side output shaft.
3. Spiral bevel gear can rotate in both directions and transmit smoothly, low noise, light vibration, high performance.
4. If ratio is not 1:1, if input speed on single-extendable shaft, output speed will be reduced; if input speed on double - extendable shaft, output speed will be reduced.

3. 產品結構圖 Product Structural View



1. 機座 Housing
2. 橫軸座 Housing of input shaft
3. 橫軸 Input shaft
4. 縱軸 Output shaft
5. 橫軸錐齒輪 Drive spiral bevel gear
6. 縱軸錐齒輪 Driven spiral bevel gear
7. 端蓋 Bearing seat of input shaft
8. 端蓋 Bearing seat of output shaft
9. 軸承 Bearing
10. 油封 Seal
11. 油鏡 Oil gauge

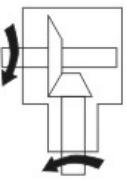
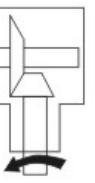
4. 轉向功能 Function of Rotation

| 1 橫軸 One single-extendable shaft | | 2 橫軸 2 single-extendable shafts | |
|---|---|--|---|
| 2軸 2-extended shaft | 3軸 3-extended shaft | 3軸 3-extended shaft | 4軸 4-extended shaft |
|  |  |  |  |

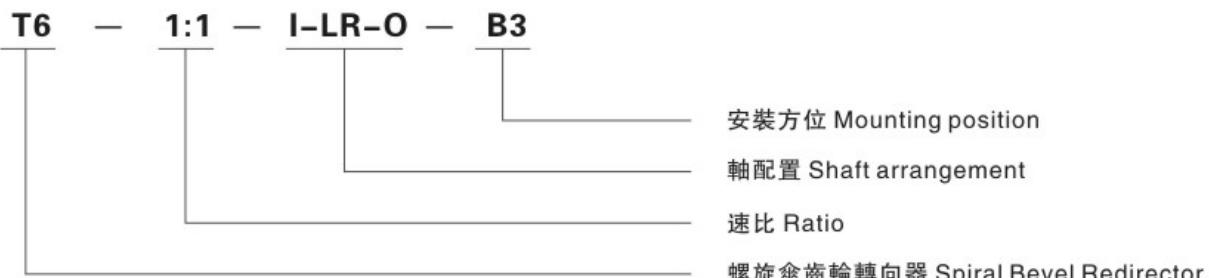
說明：當輸入軸旋轉方向改變，輸出軸相應改變。 Specification: Direction of rotation of output shaft varies with that of input shaft.

5. 選定輸入軸時應注意轉速關係 (1:1傳動比時無關系)

Please pay attention to speed relationship when selecting input shaft
(there is nothing in case of ratio of 1:1)

| 減速 Reducing | 增速 Increasing |
|---|--|
|  <p>當橫軸輸入100r/min時 縱軸輸出50r/min Out put speed is 50rpm when input speed is 100rpm</p> |  <p>當縱軸輸入100r/min時 橫軸輸出200r/min Out put speed is 200rpm when input speed is 100rpm</p> |

6. 型號表示方法 Expressed method of Model



7. 重量表 Weight Table

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

8. 轉向器Fr (N)表 Redirector Fr(N) Table

| i N | n1 (r/min) | T2 | | T4 | | T6 | | T7 | | T8 | | T10 | | T12 | | T16 | | T20 | | T25 | |
|-------|---------------|-----|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 | 橫軸 | 縱軸 |
| 1:1 | 1450 | 265 | 216 | 833 | 951 | 1911 | 2450 | 2450 | 3136 | 3234 | 3381 | 4165 | 4508 | 5096 | 5586 | 10633 | 10976 | | | | |
| | 1150 | 323 | 235 | 882 | 1029 | 2058 | 2597 | 2744 | 3234 | 3479 | 3626 | 4459 | 4851 | 5488 | 6076 | 11368 | 11760 | 15386 | 15608 | | |
| | 870 | 402 | 255 | 960 | 1127 | 2205 | 2842 | 2989 | 3381 | 3773 | 3969 | 4851 | 5292 | 5880 | 6566 | 12446 | 12740 | 16660 | 17150 | 24794 | 25480 |
| | 580 | 549 | 314 | 1078 | 1323 | 2499 | 3185 | 3381 | 3822 | 4263 | 4459 | 5488 | 5880 | 6713 | 7301 | 14014 | 14504 | 18816 | 19404 | 28028 | 28910 |
| | 400 | 637 | 353 | 1372 | 1715 | 3185 | 3528 | 4018 | 4900 | 4851 | 5978 | 6272 | 7056 | 7742 | 8134 | 15680 | 16170 | 21070 | 21756 | 31360 | 32340 |
| | 300 | 696 | 392 | 1519 | 1960 | 3430 | 3528 | 4410 | 5537 | 5243 | 6958 | 6713 | 7987 | 8232 | 9065 | 17150 | 17640 | 23422 | 24108 | 34300 | 35280 |
| | 200 | 784 | 441 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 7889 | 8820 | 8575 | 9604 | 9261 | 10290 | 19600 | 19894 | 25970 | 26754 | 38612 | 39788 |
| | 100 | 980 | 588 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11368 | 12593 | 22540 | 22540 | 28420 | 32928 | 39200 | 49000 |
| | 10 | 980 | 588 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 1.5:1 | 1450 | | | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212 | 5978 | 10486 | 5978 | 12152 | 7693 | 14602 | | |
| | 1150 | | | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252 | 12152 | 6419 | 13083 | 8771 | 17934 | 12985 | 24647 |
| | 870 | | | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869 | 14504 | 6958 | 14210 | 9506 | 19453 | 13573 | 29400 |
| | 580 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840 | 16072 | 10780 | 22001 | 15680 | 33222 |
| | 400 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820 | 17934 | 12005 | 24598 | 17542 | 37142 |
| | 300 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604 | 19600 | 13132 | 27342 | 19159 | 40474 |
| | 200 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
| | 100 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
| | 10 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 2.5:1 | 1450 | | | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212 | 5978 | 10486 | 5978 | 12152 | 7693 | 14602 | | |
| | 1150 | | | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252 | 12152 | 6419 | 13083 | 8771 | 17934 | 12985 | 24647 |
| | 870 | | | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869 | 14504 | 6958 | 14210 | 9506 | 19453 | 13573 | 29400 |
| | 580 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840 | 16072 | 10780 | 22001 | 15680 | 33222 |
| | 400 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820 | 17934 | 12005 | 24598 | 17542 | 37142 |
| | 300 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604 | 19600 | 13132 | 27342 | 19159 | 40474 |
| | 200 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
| | 100 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
| | 10 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 3:1 | 1450 | | | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212 | 5978 | 10486 | 5978 | 12152 | 7693 | 14602 | | |
| | 1150 | | | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252 | 12152 | 6419 | 13083 | 8771 | 17934 | 12985 | 24647 |
| | 870 | | | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869 | 14504 | 6958 | 14210 | 9506 | 19453 | 13573 | 29400 |
| | 580 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840 | 16072 | 10780 | 22001 | 15680 | 33222 |
| | 400 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820 | 17934 | 12005 | 24598 | 17542 | 37142 |
| | 300 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604 | 19600 | 13132 | 27342 | 19159 | 40474 |
| | 200 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
| | 100 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
| | 10 | | | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |

備註：各規格更低的輸出轉速按以上最大的Fr值。

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

9. 被驅動設備系數f1 Service Factor f1

| 負荷性質 Load characteristic | 每天使用時間 (小時) Operating time/day (hour) | | |
|-----------------------------|---|------------|------------|
| | ≤2 | 2~10 | 10~24 |
| 均勻負載Uniform | 1.00(1.00) | 1.00(1.25) | 1.25(1.50) |
| 一般衝擊Moderate | 1.00(1.25) | 1.25(1.50) | 1.50(1.75) |
| 強烈衝擊Heavy | 1.25(1.50) | 1.50(1.75) | 1.75(2.00) |

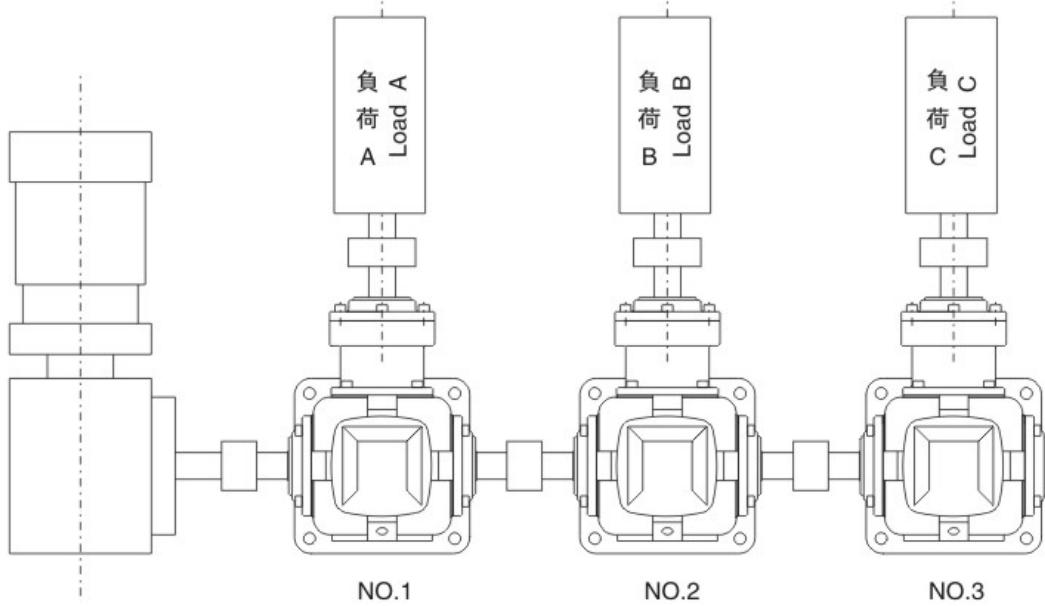
備註：當每個小時起動、停止次數在10次以上，請使用括號內數值。

Note: Please use these data inside the bracket when number of starts/stops/hour is greater than ten times.

NMRV
VF
MOTOR
SWL
T



10. 選型舉例 Selection for Example



3臺負載全部為196N.m，一般衝擊，每天連續工作8小時，即使用系數 $f_s=1.25$ ，斜齒輪輸入軸轉速300r/min，速比全部為1:1。

根據公式：

每臺轉向器本身所需的負載 $M_{N2} \geq M_2 \times f_s = 196 \times 1.25 = 245\text{N.m}$

※1號轉向器 因1號轉向器本身的負載為245N.m，而2號、3號轉向器需通過1號齒輪箱體傳遞扭矩。所以1號轉向器應承擔的負載為： $245\text{N.m} + 245\text{N.m} + 245\text{N.m} = 735\text{N.m}$ ，依據傳動能力表，應選T12。

※2號轉向器 除本身的負載245N.m，還需傳遞3號轉向器的扭矩。所以總負載應為 $245\text{N.m} + 245\text{N.m} = 490\text{N.m}$ ，依據傳動能力表，應選T10。

※3號轉向器 由於僅一個負載C進行運轉，即所需負載在245N.m以上即可，依據傳動能力表可選T8。

Torque values of three gear reducer are 196Nm, uniform, operate continuous for 8 hour per day, that is, useful factor $f_s=1.25$, input speed of 300 rpm, ratio of 1:1.

Calculate according to formula:

Required torque of any of gearbox MN2 is equal to 245N.m or larger.

No.1 gear reducer No.1 gear reducer carry torque 245N.m, but No.2 and No.3 gear reducer need transfer torque through No.1, Consequently No.1 gear reducer should carry torque 735N.m ($245\text{N.m} + 245\text{N.m} + 245\text{N.m}$), select T12. according to transmission capacity table.

No.2 gear reducer No.3 gear reducer still transfers torque of No.3 gear reducer besides torque of 245N.m, so, the total torque is 490N.m($245\text{N.m} + 245\text{N.m}$), select T10 according to transmission capacity table.

No.3 gear reducer Required torque is more than 245N.m because of only load C according to transmission capacity Table select T8.



11. 傳動能力表 Transmission Capacity Table

| i | N1 (r/min) | T2 | | T4 | | T6 | | T7 | | T8 | |
|-------|---------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | | T2N(N·m) | P1N(kw) |
| 1:1 | 1450 | 11.6 | 1.79 | 31.9 | 4.94 | 96.0 | 14.9 | 142 | 22.0 | 294 | 45.6 |
| | 1150 | 11.7 | 1.43 | 34.1 | 4.19 | 103 | 12.7 | 150 | 18.4 | 305 | 37.5 |
| | 870 | 12.1 | 1.12 | 37.2 | 3.46 | 113 | 10.5 | 164 | 15.2 | 312 | 29.0 |
| | 580 | 12.1 | 0.747 | 39.5 | 2.45 | 119 | 7.35 | 184 | 11.4 | 319 | 19.8 |
| | 400 | 12.3 | 0.524 | 40.2 | 1.72 | 122 | 5.20 | 195 | 8.34 | 326 | 14.0 |
| | 300 | 12.3 | 0.396 | 40.5 | 1.30 | 123 | 3.93 | 198 | 6.35 | 331 | 10.6 |
| | 200 | 12.4 | 0.226 | 41.2 | 0.880 | 124 | 2.66 | 201 | 4.30 | 338 | 7.23 |
| | 100 | 12.7 | 0.136 | 41.9 | 0.448 | 127 | 1.36 | 206 | 2.20 | 346 | 3.70 |
| | 10 | 13.0 | 0.014 | 43.0 | 0.046 | 132 | 0.141 | 214 | 0.228 | 361 | 0.386 |
| 1.5:1 | 1450 | | | | | 117 | 12.1 | 145 | 15.0 | 185 | 19.1 |
| | 1150 | | | | | 122 | 9.96 | 147 | 12.0 | 188 | 15.4 |
| | 870 | | | | | 123 | 7.66 | 150 | 9.30 | 191 | 11.8 |
| | 580 | | | | | 126 | 5.23 | 153 | 6.32 | 197 | 8.14 |
| | 400 | | | | | 128 | 3.66 | 155 | 4.41 | 200 | 5.70 |
| | 300 | | | | | 129 | 2.77 | 157 | 3.35 | 203 | 4.34 |
| | 200 | | | | | 131 | 1.87 | 160 | 2.28 | 204 | 2.91 |
| | 100 | | | | | 134 | 0.957 | 163 | 1.16 | 210 | 1.49 |
| | 10 | | | | | 139 | 0.099 | 169 | 0.12 | 218 | 0.155 |
| 2:1 | 1450 | 12.1 | 0.94 | 42.8 | 3.32 | 102 | 7.90 | 137 | 10.6 | 180 | 14.0 |
| | 1150 | 12 | 0.74 | 43.4 | 2.67 | 104 | 6.39 | 139 | 8.55 | 183 | 11.3 |
| | 870 | 12 | 0.56 | 43.8 | 2.04 | 105 | 4.88 | 141 | 6.56 | 187 | 8.70 |
| | 580 | 11.9 | 0.37 | 44.4 | 1.38 | 108 | 3.34 | 144 | 4.47 | 191 | 5.92 |
| | 400 | 12.2 | 0.26 | 45.1 | 0.96 | 109 | 2.33 | 146 | 3.12 | 194 | 4.15 |
| | 300 | 11.9 | 0.19 | 45.5 | 0.73 | 110 | 1.76 | 148 | 2.37 | 196 | 3.14 |
| | 200 | 12.2 | 0.13 | 46.1 | 0.49 | 111 | 1.18 | 149 | 1.59 | 198 | 2.12 |
| | 100 | 11.2 | 0.06 | 46.6 | 0.25 | 114 | 0.608 | 152 | 0.812 | 202 | 1.08 |
| | 10 | 28.1 | 0.015 | 48.5 | 0.026 | 116 | 0.062 | 157 | 0.084 | 209 | 0.112 |
| 2.5:1 | 1450 | | | | | 96.2 | 5.97 | 113 | 6.99 | 184 | 11.4 |
| | 1150 | | | | | 97.2 | 4.78 | 115 | 5.64 | 185 | 9.11 |
| | 870 | | | | | 99.0 | 3.68 | 116 | 4.30 | 188 | 7.00 |
| | 580 | | | | | 100.0 | 2.48 | 118 | 2.92 | 192 | 4.76 |
| | 400 | | | | | 100.9 | 1.73 | 120 | 2.05 | 195 | 3.34 |
| | 300 | | | | | 102.9 | 1.32 | 121 | 1.55 | 197 | 2.53 |
| | 200 | | | | | 103.9 | 0.888 | 123 | 1.05 | 200 | 1.71 |
| | 100 | | | | | 104.9 | 0.448 | 123 | 0.528 | 203 | 0.867 |
| | 10 | | | | | 107.8 | 0.046 | 126 | 0.054 | 208 | 0.089 |
| 3:1 | 1450 | | | | | 93.6 | 4.84 | 105 | 5.42 | 159 | 8.20 |
| | 1150 | | | | | 94.8 | 3.88 | 106 | 4.34 | 160 | 6.55 |
| | 870 | | | | | 95.9 | 2.97 | 108 | 3.34 | 163 | 5.04 |
| | 580 | | | | | 97.6 | 2.02 | 109 | 2.25 | 166 | 3.42 |
| | 400 | | | | | 99.0 | 1.41 | 111 | 1.58 | 168 | 2.39 |
| | 300 | | | | | 100 | 1.07 | 111 | 1.18 | 169 | 1.80 |
| | 200 | | | | | 100 | 0.712 | 113 | 0.803 | 171 | 1.22 |
| | 100 | | | | | 102 | 0.363 | 115 | 0.409 | 173 | 0.618 |
| | 10 | | | | | 104 | 0.037 | 118 | 0.042 | 179 | 0.064 |
| 4:1 | 1450 | | | | | 80.6 | 3.12 | 93.4 | 3.62 | 124 | 4.80 |
| | 1150 | | | | | 81.5 | 2.50 | 94.3 | 2.90 | 125 | 3.83 |
| | 870 | | | | | 82.4 | 1.92 | 95.9 | 2.23 | 127 | 2.95 |
| | 580 | | | | | 84.1 | 1.30 | 96.9 | 1.50 | 129 | 2.00 |
| | 400 | | | | | 85.1 | 0.91 | 98.7 | 1.05 | 131 | 1.40 |
| | 300 | | | | | 86.1 | 0.69 | 98.3 | 0.79 | 131 | 1.05 |
| | 200 | | | | | 86.0 | 0.46 | 101 | 0.54 | 134 | 0.71 |
| | 100 | | | | | 87.7 | 0.23 | 101 | 0.27 | 135 | 0.36 |
| | 10 | | | | | 89.3 | 0.02 | 101 | 0.03 | 140 | 0.04 |
| 5:1 | 1450 | | | | | 52.0 | 1.61 | 57.4 | 1.78 | 68.7 | 2.13 |
| | 1150 | | | | | 52.5 | 1.29 | 58.0 | 1.43 | 69.2 | 1.70 |
| | 870 | | | | | 53.2 | 0.99 | 59.0 | 1.10 | 70.4 | 1.31 |
| | 580 | | | | | 54.2 | 0.67 | 59.6 | 0.74 | 71.7 | 0.89 |
| | 400 | | | | | 54.9 | 0.47 | 60.7 | 0.52 | 72.6 | 0.62 |
| | 300 | | | | | 55.5 | 0.36 | 60.4 | 0.39 | 72.9 | 0.47 |
| | 200 | | | | | 55.4 | 0.24 | 61.7 | 0.26 | 74.1 | 0.32 |
| | 100 | | | | | 56.5 | 0.12 | 62.9 | 0.13 | 75.1 | 0.16 |
| | 10 | | | | | 57.6 | 0.01 | 64.5 | 0.01 | 77.8 | 0.02 |

1、橫軸轉速未達到10r/min時，請使用10r/min的數據。
 2、以上有灰色標識的規格定貨時必須諮詢，橫軸輸入轉速超過1450r/min時，向本公司諮詢。



| i | N1 (r/min) | T10 | | T12 | | T16 | | T20 | | T25 | |
|-------|---------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | | T2N(N·m) | P1N(kw) |
| 1:1 | 1450 | 421 | 65.3 | 619 | 96.0 | 1019 | 163 | | | | |
| | 1150 | 453 | 55.7 | 665 | 81.1 | 1098 | 139 | 1842 | 234 | | |
| | 870 | 479 | 44.6 | 726 | 67.5 | 1186 | 114 | 2009 | 193 | 3489 | 335 |
| | 580 | 493 | 30.6 | 802 | 49.7 | 1343 | 85.9 | 2274 | 145 | 3940 | 252 |
| | 400 | 504 | 21.5 | 821 | 35.1 | 1499 | 66.1 | 2538 | 112 | 4410 | 195 |
| | 300 | 513 | 16.4 | 835 | 26.8 | 1637 | 54.1 | 2744 | 90.8 | 4792 | 159 |
| | 200 | 521 | 11.1 | 852 | 18.2 | 1784 | 39.3 | 3126 | 69.0 | 5390 | 119 |
| | 100 | 535 | 5.72 | 875 | 9.36 | 1842 | 20.3 | 3205 | 35.3 | 5439 | 60.0 |
| | 10 | 561 | 0.599 | 919 | 0.983 | 1940 | 2.14 | 3205 | 3.53 | 5713 | 6.30 |
| 1.5:1 | 1450 | 374 | 38.7 | 564 | 58.3 | | | | | | |
| | 1150 | 380 | 31.2 | 601 | 49.2 | | | | | | |
| | 870 | 389 | 24.1 | 656 | 40.7 | | | | | | |
| | 580 | 396 | 16.4 | 699 | 28.9 | | | | | | |
| | 400 | 406 | 11.6 | 711 | 20.3 | | | | | | |
| | 300 | 411 | 8.78 | 724 | 15.5 | | | | | | |
| | 200 | 417 | 5.95 | 736 | 10.5 | | | | | | |
| | 100 | 426 | 3.04 | 754 | 5.37 | | | | | | |
| | 10 | 443 | 0.316 | 785 | 0.56 | | | | | | |
| 2:1 | 1450 | 305 | 23.6 | 516 | 40.0 | 921 | 73.7 | 1578 | 126 | | |
| | 1150 | 309 | 19.0 | 516 | 31.7 | 938 | 59.5 | 1607 | 102 | 3146 | 199 |
| | 870 | 315 | 14.6 | 516 | 24.0 | 958 | 46.0 | 1646 | 79.0 | 3224 | 155 |
| | 580 | 322 | 10.0 | 524 | 16.3 | 980 | 31.3 | 1695 | 54.2 | 3332 | 107 |
| | 400 | 328 | 7.02 | 538 | 11.5 | 1000 | 22.0 | 1725 | 38.0 | 3420 | 75.4 |
| | 300 | 332 | 5.33 | 543 | 8.71 | 1009 | 16.7 | 1754 | 29.0 | 3479 | 57.5 |
| | 200 | 338 | 3.61 | 551 | 5.89 | 1029 | 11.3 | 1784 | 19.7 | 3557 | 39.2 |
| | 100 | 344 | 1.84 | 563 | 3.01 | 1058 | 5.84 | 1833 | 10.1 | 3646 | 20.1 |
| | 10 | 357 | 0.191 | 586 | 0.313 | 1098 | 0.605 | 1921 | 1.06 | 3822 | 2.11 |
| 2.5:1 | 1450 | 293 | 18.2 | 507 | 31.4 | | | | | | |
| | 1150 | 298 | 14.7 | 514 | 25.3 | | | | | | |
| | 870 | 302 | 11.2 | 523 | 19.5 | | | | | | |
| | 580 | 310 | 7.68 | 535 | 13.3 | | | | | | |
| | 400 | 315 | 5.38 | 545 | 9.32 | | | | | | |
| | 300 | 317 | 4.06 | 552 | 7.08 | | | | | | |
| | 200 | 321 | 2.75 | 560 | 4.79 | | | | | | |
| | 100 | 326 | 1.40 | 568 | 2.43 | | | | | | |
| | 10 | 336 | 0.144 | 588 | 0.251 | | | | | | |
| 3:1 | 1450 | 270 | 14.0 | 458 | 23.6 | 904 | 48.2 | 1529 | 82.3 | 2935 | 158 |
| | 1150 | 275 | 11.3 | 464 | 19.0 | 920 | 38.9 | 1561 | 66.6 | 3045 | 130 |
| | 870 | 279 | 8.66 | 469 | 14.6 | 940 | 30.1 | 1598 | 51.6 | 3135 | 101 |
| | 580 | 285 | 5.89 | 480 | 9.92 | 960 | 20.4 | 1644 | 35.4 | 3246 | 69.9 |
| | 400 | 288 | 4.11 | 490 | 6.98 | 978 | 14.4 | 1672 | 24.8 | 3317 | 49.3 |
| | 300 | 291 | 3.11 | 495 | 5.29 | 990 | 10.9 | 1701 | 18.9 | 3372 | 37.6 |
| | 200 | 294 | 2.10 | 501 | 3.57 | 1005 | 7.38 | 1733 | 12.9 | 3449 | 25.6 |
| | 100 | 300 | 1.07 | 510 | 1.82 | 1038 | 3.82 | 1777 | 6.60 | 3537 | 13.1 |
| | 10 | 308 | 0.110 | 527 | 0.188 | 1076 | 0.40 | 1865 | 0.69 | 3713 | 1.4 |
| 4:1 | 1450 | 241 | 9.35 | 434 | 16.8 | 850 | 34.3 | 1452 | 58.7 | 2798 | 113 |
| | 1150 | 246 | 7.54 | 441 | 13.5 | 865 | 27.7 | 1483 | 47.5 | 2892 | 92.6 |
| | 870 | 249 | 5.78 | 448 | 10.4 | 884 | 21.4 | 1518 | 36.8 | 2978 | 72.2 |
| | 580 | 254 | 3.93 | 456 | 7.07 | 902 | 14.6 | 1562 | 25.2 | 3084 | 49.8 |
| | 400 | 257 | 2.74 | 465 | 4.97 | 919 | 10.2 | 1588 | 17.7 | 3151 | 35.1 |
| | 300 | 259 | 2.08 | 470 | 3.77 | 930 | 7.8 | 1616 | 13.5 | 3204 | 26.8 |
| | 200 | 262 | 1.40 | 476 | 2.54 | 944 | 5.3 | 1646 | 9.17 | 3276 | 18.2 |
| | 100 | 267 | 0.71 | 485 | 1.30 | 976 | 2.7 | 1688 | 4.70 | 3360 | 9.36 |
| | 10 | 275 | 0.07 | 501 | 0.13 | 1011 | 0.3 | 1772 | 0.49 | 3527 | 0.98 |
| 5:1 | 1450 | 136 | 4.21 | 296 | 9.18 | 814 | 26.3 | 1391 | 44.9 | 2631 | 85.0 |
| | 1150 | 138 | 3.39 | 301 | 7.39 | 828 | 21.2 | 1420 | 36.4 | 2771 | 71.0 |
| | 870 | 140 | 2.60 | 305 | 5.68 | 847 | 16.4 | 1454 | 28.2 | 2853 | 55.3 |
| | 580 | 143 | 1.77 | 311 | 3.86 | 864 | 11.2 | 1496 | 19.3 | 2954 | 38.2 |
| | 400 | 144 | 1.23 | 318 | 2.72 | 881 | 7.85 | 1521 | 13.6 | 3018 | 26.9 |
| | 300 | 146 | 0.93 | 321 | 2.06 | 891 | 5.96 | 1548 | 10.3 | 3069 | 20.5 |
| | 200 | 148 | 0.63 | 325 | 1.39 | 905 | 4.03 | 1577 | 7.03 | 3138 | 14.0 |
| | 100 | 150 | 0.32 | 331 | 0.71 | 935 | 2.08 | 1617 | 3.60 | 3218 | 7.17 |
| | 10 | 155 | 0.03 | 342 | 0.07 | 969 | 0.22 | 1697 | 0.38 | 3378 | 0.75 |

1、If speed is less than 10rpm,please choose 10rpm.

2、Please contact us, when order the model with ash sign or that input speed is more than 1450rpm

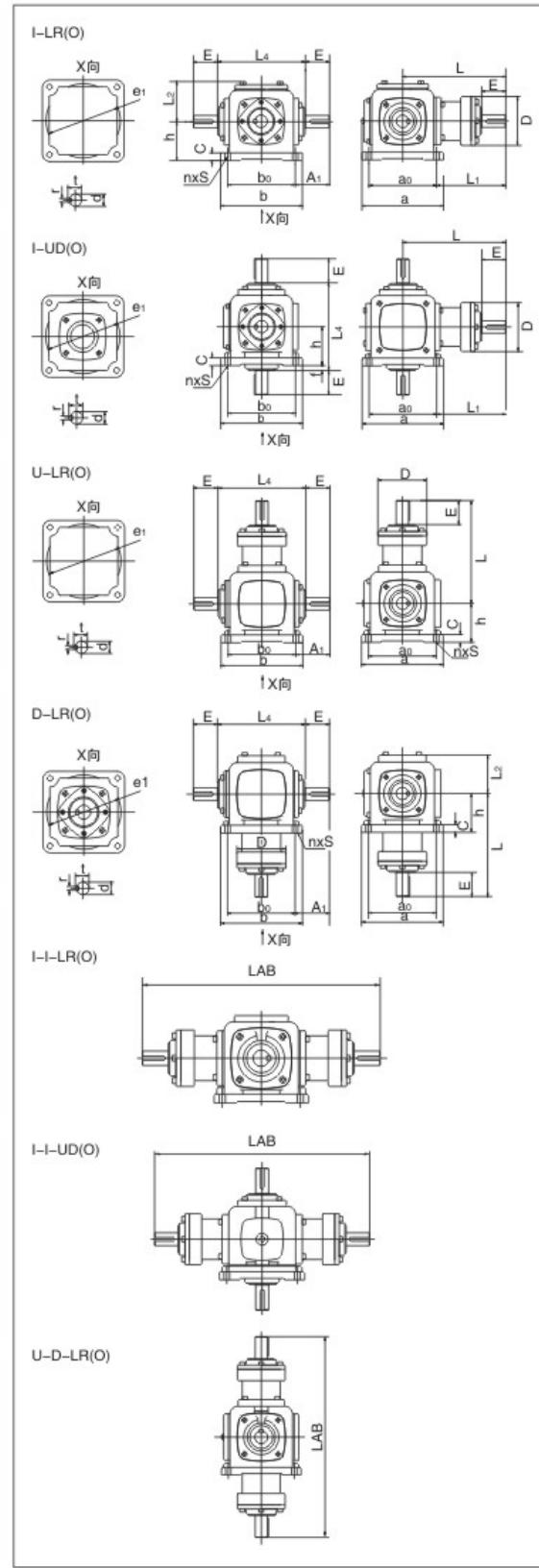


12. 軸配置及軸旋轉方向的關係、安裝方位及尺寸圖表

The relationship between shaft arrangements and direction of shaft rotation,
Mounting position and dimension sheets

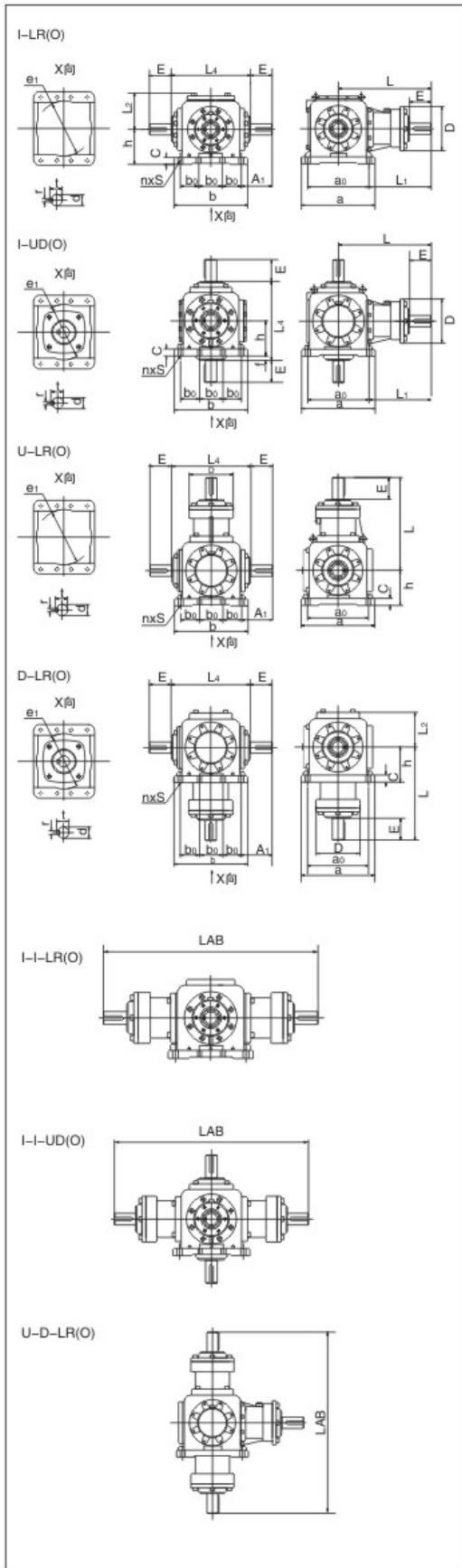
T2-T16

| | | | | | | |
|----------|---------|---------|--|----------------|----------------|----------------|
| I-LR | I-R | I-L | | B ₃ | B ₆ | V ₅ |
| I-LR-O | I-R-O | I-L-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |
| I-UD | I-U | I-D | | B ₃ | B ₆ | V ₅ |
| I-UD-O | I-U-O | I-D-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |
| U-LR | U-R | U-L | | B ₃ | B ₆ | V ₅ |
| U-LR-O | U-R-O | U-L-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |
| D-LR | D-R | D-L | | B ₃ | B ₆ | V ₅ |
| D-LR-O | D-R-O | D-L-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |
| I-I-LR | I-I-R | I-I-L | | B ₃ | B ₆ | V ₅ |
| I-I-LR-O | I-I-R-O | I-I-L-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |
| I-I-UD | I-I-U | I-I-D | | B ₃ | B ₆ | V ₅ |
| I-I-UD-O | I-I-U-O | I-I-D-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |
| U-D-LR | U-D-R | U-D-L | | B ₃ | B ₆ | V ₅ |
| U-D-LR-O | U-D-R-O | U-D-L-O | | B ₈ | B ₇ | V ₆ |
| | | | | | | |





T20-T25



| | T2 | T4 | T6 | T7 | T8 | T10 | T12 | T16 | T20 | T25 |
|----------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| A1 | 48 | 53.5 | 81 | 88 | 110.5 | 120 | 130 | 150 | 195 | 235 |
| a | 100 | 155 | 190 | 210 | 235 | 285 | 340 | 390 | 490 | 580 |
| a0 | 84 | 125 | 152 | 174 | 195 | 240 | 290 | 330 | 430 | 520 |
| b | 100 | 155 | 190 | 210 | 235 | 285 | 340 | 390 | 410 | 480 |
| b0 | 84 | 125 | 152 | 174 | 195 | 240 | 290 | 330 | 110 | 130 |
| C | 10 | 17 | 17 | 20 | 23 | 25 | 32 | 40 | 32 | 35 |
| D | 58 | 76 | 115 | 125 | 159 | 155 | 168 | 193 | 220 | 270 |
| d(h7) | 15 | 19 | 25 | 32 | 40 | 45 | 50 | 60 | 72 | 85 |
| E | 33 | 38 | 50 | 62 | 75 | 90 | 100 | 105 | 105 | 130 |
| e1(h8)x深 | 94x3 | 155x5 | 190x5 | 220x5 | 250x5 | 305x5 | 370x5 | 420x7 | 360x10 | 430x10 |
| f | 5 | 2 | 17 | 13 | 18 | 10 | 0 | 10 | 10 | 10 |
| h | 52 | 76 | 90 | 100 | 115 | 140 | 175 | 200 | 245 | 290 |
| L | 124 | 180 | 222 | 265 | 308 | 360 | 415 | 455 | 545 | 660 |
| L1 | 82 | 117.5 | 146 | 178 | 210.5 | 240 | 270 | 290 | 330 | 400 |
| L2 | 52 | 76 | 87 | 97 | 114.5 | 133 | 160 | 186 | 217 | 255 |
| L4 | 114 | 156 | 214 | 226 | 266 | 300 | 350 | 420 | 510 | 600 |
| LAB | 248 | 360 | 444 | 530 | 616 | 720 | 830 | 910 | 1090 | 1324 |
| n | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 |
| r | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 18 | 20 | 22 |
| s | 9 | 10.5 | 14 | 14 | 14 | 16 | 21 | 25 | 21 | 24 |
| t | 17 | 21.5 | 28 | 35 | 43 | 48.5 | 53.5 | 64 | 76.5 | 90 |

注意：當速比是4:1和5:1時，縱軸尺寸不變，橫軸尺寸更改如下：
Note: When ratio is 4:1 and 5:1, dimension of output shaft is changeless, but that of input is changed as follows:

| | | T6 | T7 | T8 | T10 | T12 | T16 | T20 | T25 |
|-----|-----------------|------|------|-------|-----|-----|------|------|------|
| 4:1 | d(h7) | 19 | 22 | 28 | 32 | 36 | 50 | 55 | 70 |
| | E | 38 | 50 | 62 | 62 | 75 | 100 | 105 | 105 |
| | L | 210 | 253 | 295 | 332 | 390 | 450 | 545 | 637 |
| | L ₁ | 134 | 178 | 212.5 | 242 | 270 | 300 | 345 | 400 |
| | L _{AB} | 420 | 566 | 590 | 664 | 780 | 900 | 1090 | 1274 |
| | r | 6 | 6 | 8 | 10 | 10 | 14 | 16 | 20 |
| | t | 21.5 | 24.5 | 31 | 35 | 39 | 53.5 | 59 | 74.5 |
| 5:1 | d(h7) | 19 | 22 | 28 | 32 | 36 | 42 | 50 | 60 |
| | E | 38 | 50 | 62 | 62 | 75 | 90 | 100 | 105 |
| | L | 210 | 253 | 295 | 332 | 390 | 440 | 540 | 637 |
| | L ₁ | 134 | 178 | 212.5 | 242 | 270 | 300 | 340 | 410 |
| | L _{AB} | 420 | 566 | 590 | 664 | 780 | 880 | 1080 | 1262 |
| | r | 6 | 6 | 8 | 10 | 10 | 12 | 14 | 18 |
| | t | 21.5 | 24.5 | 31 | 35 | 39 | 45 | 53.5 | 64 |



永坤電機
YONGKUN MOTOR



NIMRV

VF

MOTOR

SWL

T



永坤電機
YONGKUN MOTOR

NMRV | VF | MOTOR | SWL | T





T SWL MOTOR VF NIMRV