



小型齒輪減速 (馬達) Small Gear Reducer (Motor)

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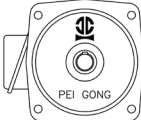
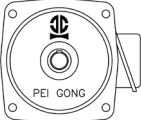
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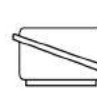
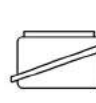
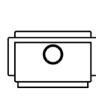
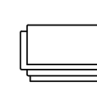
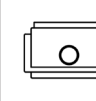
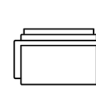
Products Codes for Small Gear Reducer (Motor) & Mounting Positions

GH - 22 - 200 - 60 - S - B - V1 - RD

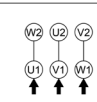
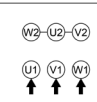
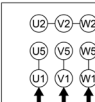
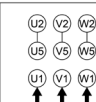
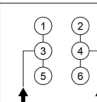
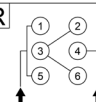
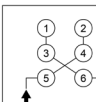
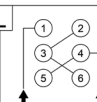
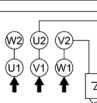
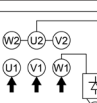
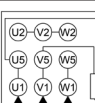
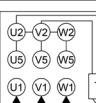
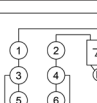
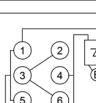
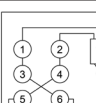
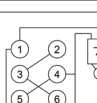
(1) (2) (3) (4) (5) (6) (7) (8)

(1) 機型 Type	臥式 (Horizontal) : GH,GHL,GHD,GHDL,GHM,GHML, 立式 (Vertical) : GV,GVL,GVD,GVDL,GVM,GVML	
(2) 出力軸 Output Shaft	18Ø, 22Ø, 28Ø, 32Ø, 40Ø, 50Ø	
(3) 馬力 Capacity (HP/KW)	100W(1/8HP), 200W(1/4HP), 400W(1/2HP), 750W(1HP), 1500W(2HP), 2200W(3HP), 3700W(5HP)	
(4) 減速比 Ratio	1/5~1/1800	
(5) 電壓 Volt	S- 三相 (3-Phase) 220/380V-50,60Hz,	S- 三相 (3-Phase) 220/440V-50,60Hz
	A- 單相 (Single Phase) 110/220V-50,60Hz	C- 特殊 Special
	P- 東元鐵框三相馬達 TECO 3-Phase Steel Plate Motor	
(6) 剎車種類 Brake Type	B-DC90V 電磁剎車 DC90V Electromagnetic Brake	BH - 手釋放剎車器 With Release Brake Unit
	D-DC24V 送電剎車器 DC24V Brake	W - 蝸輪減速機 Worm Gear Reducer
(7) 依出力軸看配線盒方向 View From Output shaft	V1 - 左方 Left(出廠標準型 Standard Type)	V2 - 右方 Right
	V3 - 上方 Upper	V4 - 下方 Lower
(8) 入線孔方向 Wire Inlet	U - 上 UP	D - 下 Down
	L - 左 Left	R - 右 Right
	F - 前 Forward	B - 後 Back

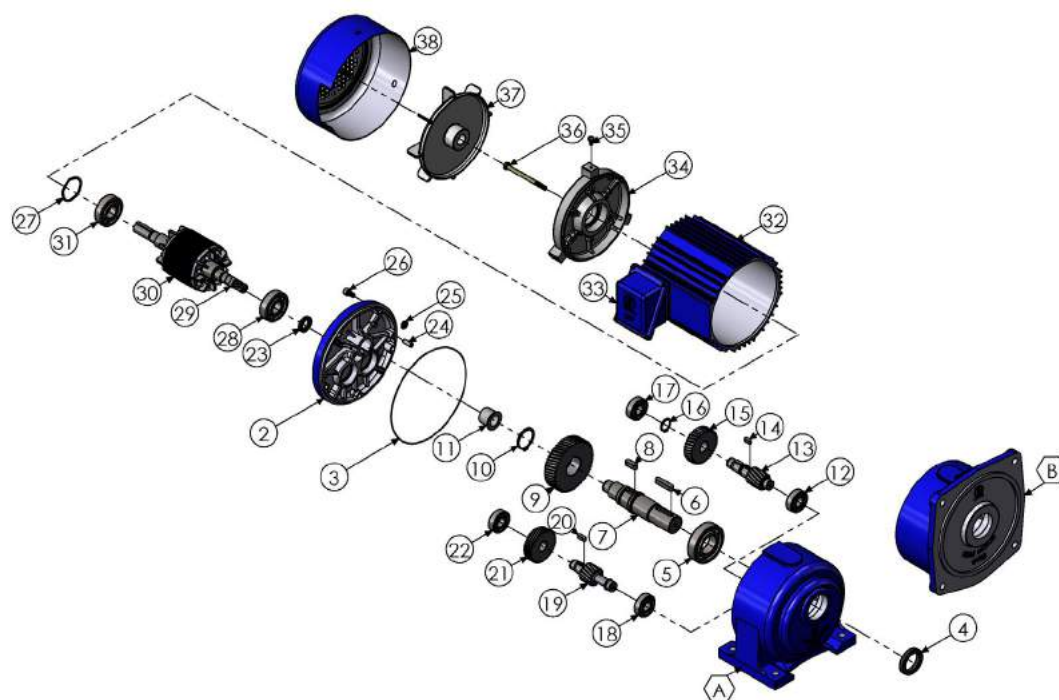
TYPE	V1- 左方 LEFT SIDE	V2- 右方 RIGHT SIDE	V3- 上方 UPPER SIDE	V4- 下方 LOWER SIDE
GH 型 GH TYPE				
GV 型 GV TYPE				

入線孔方向 WIRE INLET DIRECTION								
	LD	LU	RD	RU	UL	UR	DL	DR
								
	LS	LB	RF	RB	UF	UB	DF	DB

接線圖 Wiring Graph

*****	三相 (3-Phase)				單相 (Single Phase)			
一般型 Common Type	 LOW VOLT - 220V	 HIGH VOLT - 380V	 LOW VOLT - 220V	 HIGH VOLT - 440V	 LOW VOLT - 110V	 HIGH VOLT - 220V	 LOW VOLT - 110V	 HIGH VOLT - 220V
附剎車 With Brake	 LOW VOLT - 220V	 HIGH VOLT - 380V	 LOW VOLT - 220V	 HIGH VOLT - 440V	 LOW VOLT - 110V	 HIGH VOLT - 220V	 LOW VOLT - 110V	 HIGH VOLT - 220V

小型齒輪減速 (馬達) 系統分解圖 Small Gear Reducer (Motor) System Drawing



零件名稱 Name of parts

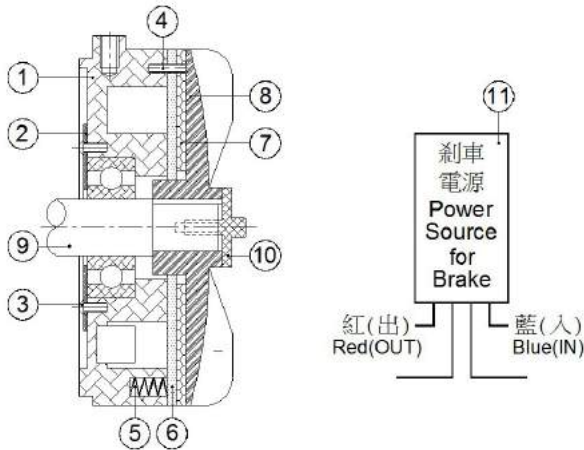
No.	組件	Parts	No.	組件	Parts	No.	組件	Parts
A	本體 - 臥式	Horizontal Case	13	第三段齒軸	3 RD Stage Pinion Shaft	26	內六角螺栓	Hex-Head Bolt
B	本體 - 立式	Vertical Case	14	第三段齒軸	3 RD Stage Pinion Shaft Key	27	波型彈簧	Wave Spring
2	前蓋	Front Cover	15	第二段齒輪	2 ND Stage Gear	28	馬達軸軸承	Motor Shaft Bearing
3	O 型環	O-Ring	16	C 型扣環	C-Snap Ring	29	馬達軸	Motor Gear Shaft
4	出力油封	Output Oil Seal	17	第三段齒軸軸承	3 RD Stage Pinion Shaft Bearing	30	馬達轉子	Motor Rotor
5	出力軸承	Output Bearing	18	第二段齒軸軸承	2 ND Stage Pinion Shaft Bearing	31	馬達軸軸承	Motor Shaft Bearing
6	出力軸鍵	Output Shaft Key	19	第二段齒軸	2 ND Stage Pinion Shaft	32	馬達線圈總成	Motor Coil Assembly
7	出力軸	Output Shaft	20	第二段齒軸鍵	2 ND Stage Pinion Shaft Key	33	馬達接線盒	Motor Wire Box
8	第三段齒輪鍵	3 RD Stage Pinion Key	21	第一段齒輪	1 ST Stage Gear	34	馬達後蓋	Motor Rear Cover
9	第三段齒輪	3 RD Stage Gear	22	第二段齒軸軸承	2 ND Stage Pinion Shaft Bearing	35	風扇蓋螺絲	Fan Cover Screw
10	C 型扣環	C-Snap Ring	23	入力油封	Input Oil Seal	36	馬達螺栓	Motor Bolt
11	出力軸自潤軸承	Output Shaft Oil less Bearing	24	定位銷	Pin	37	風扇	Fan Brake Unit
12	第三段齒軸軸承	3 RD Stage Pinion Shaft Bearing	25	O 型環	O-Ring	38	風扇蓋	Motor Fan Cover



內部結構圖

Brake Inner structure

安全剎車器結構圖 Brake Structural Drawing

	編號 No.	零件名稱	Name of Parts
	1	軸承蓋	Bearing Cover
	2	固定墊圈	Fixing Gasket
	3	固定螺絲	Fixing Screw
	4	固定銷	Fixing Forelock
	5	壓縮彈簧	Spring Compression
	6	剎車基板	Brake Plate
	7	剎車來令	Brake Shoe
	8	外扇風葉	Output Fan
	9	馬達軸心	Motor Spindle
	10	來令片固定螺絲	Brake Shoe Fixing Screw
	11	剎車電源 (整流器)	Power Device for Brake(Rectifier)

直流安全式剎車器規格 DC Brake Unit Specification

輸出馬力 Capacity (HP)	剎車制動力 Torque (Kg-M)	剎車間隙 Clearance (MM)	剎車時間 Brake Time (Sec)	釋放時間 Release Time (Sec)	剎車線圈 Brake Coil			重量 Weight (KG)
					電壓 Voltage (DC-V)	電流 AMP (A)	阻抗 OHM (Ω)	
200W 1/4HP*4P	0.20	0.2-0.60	0.22	0.12	95 ± 10%	0.17	565	3.5
400W 1/2HP*4P	0.40	0.2-0.60	0.24	0.13	95 ± 10%	0.28	336	4.0
750W 1HP*4P	0.80	0.3-0.65	0.22	0.12	95 ± 10%	0.41	233	5.0
1500W 2HP*4P	1.50	0.3-0.65	0.28	0.15	95 ± 10%	0.57	167	6.0
2200W 3HP*4P	2.20	0.4-0.70	0.28	0.18	95 ± 10%	0.73	130	8.0
3700W 5HP*4P	4.50	0.4-0.70	0.28	0.18	95 ± 10%	0.73	130	10.0
備註 Remark	直流剎車器安裝尺寸相同於原有標準馬達 DC Brake Unit Length Same As Original Standard Motor							
	適用電壓 Available Voltage 220V,380V,400V,415V,440V,460V							
	剎車電壓為 DC90V Brake Coil Voltage : DC90V							
	採用非石棉材質剎車來令片 Adopt Material With Non-asbestos Brake Disc							
	可訂製特殊剎車器 Available For Special Brake Design							

直流剎車器故障排除 Defect solve for DC Brake Unit

直流剎車器故障排除 Defect Solve For DC Brake Unit

不良原因 Defective Reason	原因分析 Possible Analysis	解決方式 Solution Method
剎車移動 Displacement	來令片磨損 Brake disc worn out	換來令片 Use new brake disc
	間隙過大 Large clearance	調整間隙 Adjust clearance
	來令片沾染油漬 Surface with oil	清潔來令片 Clean brake disc
	負載過大 Over loading	重新設計 Re-design brake unit
	剎車表面歪斜 Brake Disc surface twist	更換零件 Use new parts
	下降衝量過大 Huge momentum	機構重新設計 System re-design
	選用機型錯誤 Select wrong type	選用正確機型 Re-select unit
	環境溫度過高 High temperature	檢討環境溫度 Adjust temperature
剎車器不動作 No Action	未供應電源 No power inside brake	供應電源 Supply power
	來令片磨損 Brake disc worn out	更新來令片 Use new brake disc
	間隙過大 Large clearance	調整間隙 Adjust clearance
	電源電壓不足 Low voltage	提供正確電壓 Use correct voltage
	電源供應器損壞 Power supply damage	更新電源供應器 Use new power supply
	異物入侵 Dirty inside	清潔零件 Clean parts
	使用電壓錯誤 Wrong voltage	使用正確電壓 Use correct voltage
	結線脫落 Connect wire lost	重新結線 Re-connect wire
	來令片卡死 Brake disc locked	清潔零件 Clean parts
	剎車器線燒燬 High temperature	更新剎車器線圈 Adjust temperature



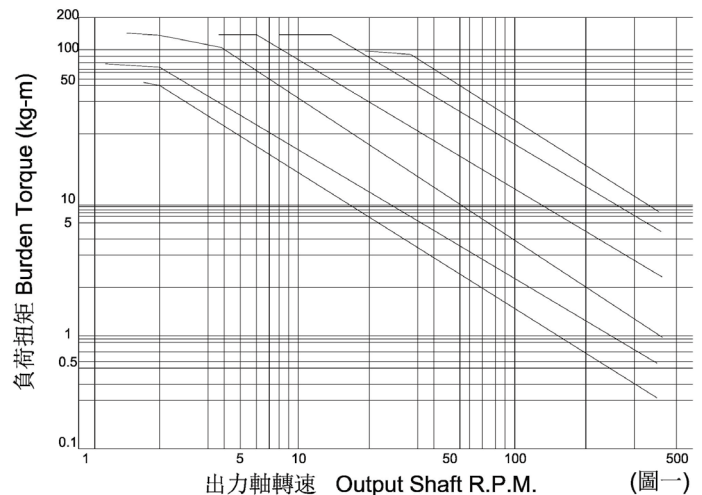
小型齒輪減速(馬達) Small Gear Reducer (Motor)

選用條件與計算方式

Calculations & conditions

一、機種選用條件 Conditions for model selection

- (1) 依安裝方式、使用條件來選用機種
Select in accordance with conditions & ways to install.
- (2) 依照輸出功能及轉速
Using output and RPM.
- (3) 依據轉速及負荷扭矩 (圖一) 修正之容量
Using corrected capacity in RPM and torque.
- (4) 依據機械的負荷扭矩
Using the burden torque of a machine.
- (5) 利用運轉條件之安全係數 (表二)
Using safety inertia by which operation data is calculated.
- (6) 依 GD^2 (慣性值) 與 O.H.L. (懸垂荷重) 相互計算
Using GD^2 (inertia value) and O.H.L. for cross-calculation.



二、安全係數 Safety factor

本公司之齒輪減速機係依輕負荷 (10H/日) 設計，如為其它條件，請依安全係數 (表二) 修正負荷扭矩。

Designing of Li-Xiang's gear reducers is accordance with light burden (10H/day), if otherwise, modify burden torque with safety inertia.

負荷狀態 Status of burden	安全係數 (Sf) Safety factor			用途 Purpose
	3H 以下 / 日 Below 3H/day	3-10H / 日 3-10H/day	10H 以上 / 日 Over 10H/day	
平均負荷 Average load	1.0	1.0	1.2	輸送帶、送料機、壓出機 Conveyor belt, Feeder, Squeezer
輕負荷 Light load	1.0	1.2	1.4	攪拌機、食品機械、升降機 Agitator, Food machinery, Elevator
超輕負荷 Super light load	1.2	1.35	1.5	起重機、碾磨機、金屬加工機械 Lift, Grinder, Metal processing machinery

三、慣性值 (GD^2) Inertia value

當大外徑之物體做連續運轉，當間歇啟動、使用煞車裝置停止時，瞬間產生極大的扭矩，為減速機最大的負荷。請依據所要配合之機械的慣性值，連結方式以及啟動的頻率，選用容許慣性值。

When in a non-stop rotation, intermittent starting or coming to a pause by the action of a brake, an object of big radius can in a moment cause huge torque, or a huge burden to a gear reducer. Select allowable inertia by using by using needed mechanic inertia value, ways of coupling and starting frequency.

容許 GD^2 (馬達軸入力端換算值) Allowable GD^2 (Conversion Value of Motor Input)

(表三) Table 3

三相 3 Phase	單相 Single Phase	容許 Allowable GD^2 (Kgm ²)
100W	100W	0.0031
200W	200W	0.0035
400W	400W	0.0048
750W	750W	0.0101
1500W	1500W	0.0212
2200W	*	0.0262
4000W	*	0.0691
5500W	*	0.1519
7500W	*	0.1862

依據運轉條件容許 GD^2 修正係數 Allowable GD^2 modified coefficient

(表四) Table 4

連結方式 Coupling	使用頻率 Frequency	修正係數 Modified Coefficient
直接連結 Direct Coupling	70 回 / 日 以下 Below 70 times/day	1.0
	70 回 / 日 以上 Over 70 times/day	1.5
方式不拘 Unlimited	70 回 / 日 以下 Below 70 times/day	1.5
	70 回 / 日 以上 Over 70 times/day	2.0

1. 減速機輸入轉速在 1800R.P.M 以上使用時，以上表乘以 $(1800/\text{輸入 R.P.M})^2$ 為容許值。
 例：輸入轉速 3600R.P.M.， $GD^2 = \text{原值} \times (1800/3600)^2 = 1/4 \text{ 原值}$
 If input RPM of a running reducer is over 1800RPM, multiply modified coefficient by $(1800/\text{input RPM})^2$ to get an allowable.
 Example: input RPM 3600RPM, $GD^2 = \text{original value} \times (1800/3600)^2 = 1/4 \text{ original value}$

2. 馬達輸入軸 $GD^2 = \text{輸出軸之 } GD^2 \times (\text{減速比})^2$ 。例：減速比為 1：20 時，其值為 1/400
 $GD^2 \text{ value of motor input shaft} = GD^2 \text{ value of motor output shaft} \times \text{ratio}^2$
 Example: if ratio is 1:20, its value is 1/400.

四、 GD^2 (飛輪效果) 之計算方式 Calculation of GD^2 (Flywheel Effect)

$$GD^2 = 4gl$$

G：重量 Weight (kg)	D：回轉直徑 Rotary diameter (M)	g：重力加速度 Gravity acceleration (9.8m/sec ²)	l：慣性力矩 Inertia torque (kg.m.sec ²)
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五、懸垂荷重 (O.H.L.)

懸垂荷重係指作用於軸心上之懸垂負載重量。減速機輸出軸與所配合機械之連結方式，如使用鏈條、齒輪、皮帶輪等，均須考慮是否超出負載能力。

O.H.L means overall hung load on an output shaft. Exceeded burden capacity should be taken seriously, when coupling by chain, gear or belt, is needed between a reducer shaft and a machine.

$$O.H.L. = (T \times K_1 \times K_2) / R \text{ (kg)}$$

T：減速機軸連結扭矩 Coupling torque of reducer shaft (kg-m)	K1：連結方式之係數 (表五) Inertia of coupling. (Table 5)
R：減速機軸被安裝之鏈條、滑輪、齒輪等螺距圓半徑 (m) Circular pitch radius of the sprocket, pulley or gear linked to a reducer shaft.	K2：負載位置之係數 (表六) Inertia of burden site. (Table 6)

係數 Inertia K1

(表五) Table 5

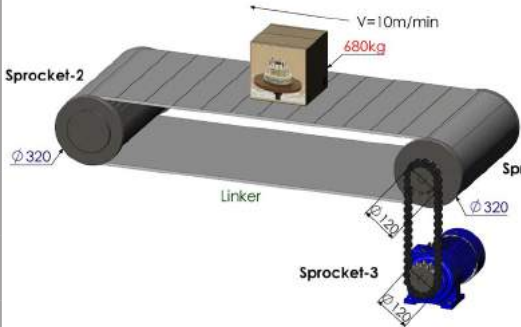
連結方式 Coupling	鏈條、齒輪皮帶 Sprocket/belt	齒輪 Gear	V 型輸送帶 V-conveyor belt	平面型輸送帶 Flat conveyor belt
K1	1.00	1.25	1.50	2.50

係數 Inertia K2

(表六) Table 6

作用位置 Burden site	軸根 Shaft butt	軸中央 Middle of shaft	軸端 Shaft end
K2	0.75	1.00	1.50

六、計算範例 Examples of calculation

	用途 Purpose	輸送機 (輕負荷) Conveyor (light load)
	輸送帶速度 Conveyor-belt speed	10m/min
	搬運重量 Weight to carry	680kg
	連結方式 Coupling	鏈輪帶動 (裝配於軸中央處) Sprocket drive (installed in the middle of a reducer shaft)
	運轉時間 Duration of running	12 小時 / 日 (hours/day)
	間歇啟動頻率 Intermittent starting	360 回 / 日 (times/day)
	輸入電源 Input voltage	三相 220V , 60Hz (3-phase)
	摩擦係數 Abrasion inertia	0.2 (假設值) supposed value
* 其餘條件暫不加以計算 Conditions other than the above are not given		

機種的選擇 Model selection

請依實際裝配空間條件選用臥式 (GH) 或立式 (GV) 機型。

Choose Horizontal (GH) or Vertical (GV) models by actual installation space.

減速比之計算 Ratio calculation

輸送機軸轉速 $n = v / (\pi * D) = 10 * 1000 / (\pi * 320) \approx 9.95 \text{ r.p.m.}$,

設輸送機軸與減速機輸出軸之鏈輪相同尺寸, 故減速比應為 $9.95 / 1800 \approx 1 / 180$

Shaft rotation of a conveyor. $n = v / (\pi * D) = 10 * 1000 / (\pi * 320) \approx 9.95 \text{ r.p.m.}$ Given that a conveyor shaft has same size as a sprocket to a gear output shaft, reduction ratio should be $9.95 / 1800 \approx 1 / 180$

扭轉力矩的計算 Torque calculation

$TL = F * R * \text{摩擦係數} = (680 + 2 * 5 + 10) * [320 / (2 * 1000)] * 0.2 = 22.4 \text{ Kg-m}$, 負荷狀態以負荷情況之補正係數 (表二) 補正

$T = TL * Sf * \text{鏈輪比 (鏈輪 3 / 鏈輪 1)} = 22.4 * 1.4 * (120 / 120) = 31.36 \text{ Kg-m}$

依負荷扭矩 $T = 31.36 \text{ Kg-m}$ 及減速比 Ratio = 1/180 從輸出特性表選定為 0.4kw, 再依扭矩來考慮,

因而選定為 GH-32-400-180S

$TL = F * R * \text{friction inertia} = (680 + 2 * 5 + 10) * [320 / (2 * 1000)] * 0.2 = 22.4 \text{ Kg-m}$,

Using the inertia of Table 2 for correct burden status.

$T = TL * Sf * \text{Sprocket ratio (sprocket 3 / sprocket 1)} = 22.4 * 1.4 * (120 / 120) = 31.36 \text{ Kg-m}$

According to burden torque $T = 31.36 \text{ Kg-m}$ and reduction ratio = 1/180,

0.4kw is chosen from output characteristics Table, if considering torque, GH-32-400-180S is decided.

GD² 的計算 GD² calculation

【輸送機總 GD²】，
 $GD^2 = W_1 D^2 + 1/2 * W_2 D^2 + 1/2 * W_3 D^2 + W_4 D^2 = 680 * 0.32^2 + 1/2 * 5 * 0.32^2 + 1/2 * 5 * 0.32^2 + 10 * 0.32^2 = 71.168 \text{ Kg-m}$
換算成馬達軸時則為 $GD^2 = GD^2 * \text{減速比}^2 * \text{鏈輪比}^2$ (鏈輪 3/ 鏈輪 1)
 $= 71.168 * (1/180)^2 * (120/120)^2 = 2.196543 * 10^{-3} \text{ Kg-m}$
依運轉條件 (表四) 來補正 $GD^2 = 2.196543 * 10^{-3} * 2 \approx 0.004393 \text{ Kg-m}^2$ ，從 (表三) 以 GD² 來選定時，則為 0.4kw
【GD² OF CONVEYOR TYPES】， $GD^2 = W_1 D^2 + 1/2 * W_2 D^2 + 1/2 * W_3 D^2 + W_4 D^2$
 $= 680 * 0.3^2 + 1/2 * 5 * 0.3^2 + 1/2 * 5 * 0.3^2 + 10 * 0.3^2 = 71.168 \text{ Kg-m}$
After it is converted to the value for motor shaft,
It should be $GD^2 = GD^2 * \text{reduction ratio}^2 * \text{sprocket ratio}^2$ (sprocket 3/sprocket 1)
 $= 71.168 * (1/180)^2 * (120/120)^2 = 2.196543 * 10^{-3} \text{ Kg-m}$
To correct by running conditions of Table 4, $GD^2 = 2.196543 * 10^{-3} * 2 \approx 0.004393 \text{ Kg-m}^2$,
If using GD² of Table 3, then, 0.4kw is decided.

O.H.L. 的計算 O.H.L. calculation

【懸垂荷重 O.H.L.】， $O.H.L. = (T * K_1 * K_2) / R = (31.36 * 1 * 1) / [120 / (2 * 1000)] = 522.67 \text{ Kg}$ ，從 O.H.L. 來選定時為 GH-32-400-180S
From O.H.L. GH-32-400-180S is chosen.

綜合結論 Conclusion

從扭矩選定應為 0.4KW、從 GD² 選定應為 0.4KW、從 O.H.L. 選定應為 0.4KW 後、再選定符合上列所有條件的機種，
即 GH-32-400-180S 或 GV-32-400-180S

Choosing from torque, it should be 0.4KW, Choosing from GD², it should be 0.4KW, After choosing 0.4KW, from O.H.L., choose again the model(s) that meet(s) all the above conditions. And right models are GH-32-400-180S or GV-32-400-180S.



減速機故障排除

Trouble shouting for Gear Motor

不良原因 Defective Reason		原因分析 Possible Analysis	解決方式 Solution Method
漏油 Leakage	油封漏油 Oil seal leakage	油封硬化 Oil seal too harden	更新損壞油封 Replace wounded oil seal
	本體漏油 Housing leakage	本體有砂孔 Housing had sand hole	更換有砂孔本體 Replace sand hole housing
	結合面漏油 Connect surf axe leakage	O 型環損壞 O-ring broken	更換 O 型環 Replace wounded O-ring
噪音 Noise	齒輪敲擊聲 Knocking	齒輪表面受損 Hurt gear surface	更換受損齒輪組 Replace gear set
	連續性雜音 Continually	軸承損壞 Bad bearing	更換受損軸承 Replace bearing
	週期性雜音 Periodically	異性附著齒面 Particle inside	檢查齒輪齒面 Check gear
	斷續性雜音 Intermittently	潤滑油脂不潔 Dirty lubricant	更換新潤滑油脂 Replace lubricant
	嘶嘶聲響 Neigh	油量不足 Lack of lubricant	添加潤滑油脂 Fill with lubricant
過熱 Over-Heating	油封 Bad oil seal	油封太緊 Oil seal too tight	更換太緊油封 Replace tighten oil seal
	本體過熱 Housing too heat	過負載 Over load running	重新計算負載馬力 Re-calculate loading
	缺乏潤滑油脂 Less lubricant	油量不足 Lack of lubricant	加入潤滑油脂 Fill with lubricant
	馬達過熱 Motor too heat	馬達不良 Defective motor	更換新馬達 Replace new motor
振動 Vibrating	固定底座振動 Mounting base movement	安裝平面歪斜 Bad surface mounting	重新調整固定底座 Re-adjust mounting base
	出力軸振動 Output shaft moving	軸承損壞 Bearing broken	更換受損軸承 Replace wounded bearing
	內部齒輪零件振動 inside gear parts movement	齒輪受損 Gear wounded	更換受損齒輪 Replace wounded gear
	本體振動 Housing vibrating	齒輪組裝不良 Bad gear assembly	重新調整齒輪 Re-adjust gear set

減速比 (I)	$I = N / 1800$	V = 速度 Speed (m/min)	D = 滾輪直徑 (MM) Roller diameter
迴轉速度 (RPM)	$N = V / \pi D$	I = 減速比 Ratio	R = 滾輪半徑 (MM) Roller radius
輸出扭矩 (Kg-M)	$T = W \times R \times K$	T = 輸出扭力 (Kg-m) Output torque	Kw1 (HP1) = 輸入馬力 Input capacity
輸入馬力 (公制)	$HP1 = N \times T / 716$	F = 荷重係數 Service factor	Kw2 (HP2) = 輸出馬力 Output capacity
輸入馬力 (英制)	$Kw1 = N \times T / 974$	W = 荷重 (Kg) Load	$1Kw = 1.34HP$
輸出馬力 (公制)	$HP2 = HP1 \times F / E$	E = 效率 Efficiency(%)	$1NM = 0.102Kg-M$
輸出馬力 (英制)	$Kw2 = Kw1 \times F / E$	N = 出力軸轉速 (RPM)	$1DaNm = 10NM$

減速機減速比 / 馬力 / 最大可承受扭力對照表 Sequence Balance Table of Ratio / HP & Maximum Torque

減速機輸出扭矩表 Output Torque of Gear Reduce Table

減速比 Ratio	輸出轉速 Output R.P.M.		輸出扭矩 Output Torque													
			0.1KW[1/8HP]		0.2KW[1/4HP]		0.4KW[1/2HP]		0.75KW[1HP]		1.5KW[2HP]		2.2KW[3HP]		3.7KW[5HP]	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
5	300	360	0.31	0.26	0.62	0.51	1.2	1	2.3	1.9	4.8	3.5	6.6	5.5	11	10
10	150	180	0.62	0.51	1.2	1	2.5	2.1	4.6	3.9	8.8	7.1	13.2	10.7	22	20
12.5	120	144	0.77	0.66	1.54	1.24	3.1	2.5	5.7	4.9	11	8.9	16.5	13.3	27.3	24.9
15	100	120	0.93	0.77	1.85	1.5	3.7	2.9	6.9	5.8	13.2	10.7	19.8	16	32.6	29.8
20	75	90	1.2	1	2.47	1.99	4.94	4	9.3	7.7	17.6	14.2	26.5	21.4	43.6	36
25	60	72	1.5	1.3	3	2.49	6.17	4.9	11.6	9.6	22.1	17.8	33.1	26.7	53.9	49.53
30	50	60	1.9	1.5	3.7	2.99	7.41	5.9	13.9	11.6	26.5	21.4	39.7	32.41	64.7	58.8
40	37.5	45	2.4	2	4.94	3.99	9.88	7.98	17.9	14.9	35.3	28.5	53	42.8	86.3	78.4
50	30	36	3	2.5	6.17	4.98	12.3	9.97	22.4	18.7	44.2	35.7	66.3	53.3	107	97.0
60	25	30	3.6	3	7.4	5.98	14.8	11.9	26.9	22.4	53	42.8	79.5	64.2	127	115
75	20	24	4.6	3.7	9.2	7.5	18.5	14.9	35.1	28.3	66.3	53.5	99.4	80.3	*	*
90	16.6	20	5.5	4.5	11.1	9	22.2	17.9	42.1	34	79.5	64.2	119.3	96.3	*	*
100	15	18	6	5	12.3	9.9	24.7	19.9	46.8	37.8	88.4	71.4	132.6	107.1	*	*
120	12.5	15	7.2	6	14.8	11.9	29.6	23.9	58.4	47.3	106	85.6	*	*	*	*
150	10	12	9.2	7.5	18.5	14.9	37	29.9	70.2	56.7	132.6	107.1	*	*	*	*
180	8.3	10	11	9	22.2	17.9	44.4	35.9	84.2	68	132.6	107.1	*	*	*	*
200	7.5	9	11.9	10	24.7	19.9	49.4	39.9	93.6	75.6	132.6	107.1	*	*	*	*
300	5	6	17.5	14.9	35.1	28.3	70.2	56.7	132.6	107.1	*	*	*	*	*	*
1200	1.25	1.5	58.5	47.6	70.2	56.7	70.2	56.7	132.6	107.1	*	*	*	*	*	*
1800	0.83	1	58.5	47.6	70.2	56.7	70.2	56.7	132.6	107.1	*	*	*	*	*	*

出力軸懸垂荷重表 Output Shaft Overhung Load Table

減速比 Ratio	輸出扭矩 Output Torque						
	0.1KW [1/8HP]	0.2KW [1/4HP]	0.4KW [1/2HP]	0.75KW [1HP]	1.5KW [2HP]	2.2KW [3HP]	3.7KW [5HP]
5	60	60	90	130	180	220	270
10	90	90	120	180	250	320	570
12.5	100	100	130	180	290	340	675
15	100	100	140	220	290	360	780
20	120	120	150	240	330	410	850
25	130	130	170	250	390	480	1100
30	140	180	260	410	520	710	1200
40	150	190	290	430	600	740	1280
50	260	200	320	470	720	880	1400
60	220	220	350	560	720	1000	1400
75	220	220	350	560	720	1000	*
90	250	250	350	600	720	1000	*
100	250	250	350	600	720	1000	*
120	250	340	600	720	1000	*	*
150	250	350	600	720	1000	*	*
180	250	350	600	720	1000	*	*
200	250	350	600	720	1000	*	*
300	350	600	720	1000	*	*	*
1200	350	600	720	1000	*	*	*
1800	350	600	720	1000	*	*	*

潤滑油選定及重量表 Selection of Lubricant Oil

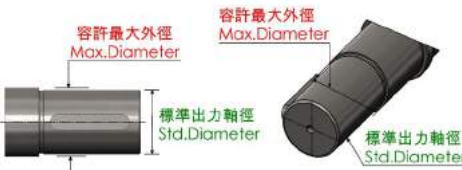
重量表 / 油量表 (Weight / Lubricant Table)

馬力 Capacity	減速比 Ratio	出力軸 Output Shaft	重量 Weight (Kg)						油量 Lubricant (L)	
			GH	GHD	GHM	GV	GVD	GVM	GH • GHD • GHM	GV • GVD • GHM
100W 1/8HP	5-40	18	5.2	2.0	2.7	5.2	2.0	2.7	0.13	0.13
	5-200	22	6.1	2.9	3.6	6.5	3.3	4.0	0.22	0.22
	250-1800	28	10.1	6.9	7.6	10.9	7.8	8.4	0.53	0.53
200W 1/4HP	5-30	18	6.8	2.0	2.7	6.8	2.0	2.7	0.13	0.13
	5-100	22	7.7	2.9	3.6	8.9	3.3	4.0	0.22	0.22
	100-200	28	10.1	5.6	6.1	10.9	6.4	6.9	0.53	0.53
	250-1800	32	25.6	20.8	21.5	25.5	20.7	21.4	1.02	1.02
400W 1/2HP	5-25	22	9.0	2.9	3.5	9.2	3.3	3.9	0.22	0.22
	5-90	28	12.8	5.6	6.1	13.1	6.4	6.9	0.53	0.53
	10-200	32	25.1	21.1	22.2	25.0	21.2	22.1	0.80	0.80
	250-1800	40	48.0	40.8	41.3	48.4	41.2	41.7	2.00	2.00
750W 1HP	5-25	28	14.2	5.6	6.9	15.0	6.4	7.7	0.53	0.53
	30-120	32	27.4	21.1	23.7	26.8	21.2	23.6	0.80	0.80
	40-200	40	44.8	40.1	44.7	45.2	40.5	45.1	2.00	2.00
	250-1800	50	95.2	88.9	91.5	94.8	88.5	91.1	4.00	4.00
1500W 2HP	5-30	32	32.7	21.1	23.6	33.3	21.2	23.5	0.80	0.80
	40-100	40	51.3	40.1	44.6	52.9	40.5	45.0	2.00	2.00
	120-200	50	83.2	75.3	80.0	82.8	74.9	79.6	3.20	3.20
2200W 3HP	5-40	40	54.4	40.1	48.7	50.8	40.5	49.1	2.00	2.00
	50-100	50	85.7	75.3	85.6	85.3	74.9	85.2	3.20	3.20
3700W 5HP	5-20	40	56.4	40.1	48.7	57.7	40.5	49.1	2.00	2.00
	5-60	50	93.0	75.3	85.6	92.4	74.9	85.2	3.20	3.20

潤滑油 (Lubricant)

產品出廠前已添加 (HT-750-0) 潤滑油脂，在正常條件下最初運轉 20,000 小時可不必更換潤滑油脂，但在特殊環境條件下運轉時，如高溫、長時間運轉，衝擊負荷等，請每 10,000-15,000 小時更換油脂。

All Reducers filled with lubricant (HT-750-0) before delivery, normally, it no need to replace lubricant for first 20,000 hrs running. But if working in special application, such as: high temperature, 24 hrs running, heavy-duty impact...etc. Then lubricants need to be changed in every 10,000-15,000 working hours.

	型號 Type	標準出力軸徑 STD Output Shaft	出力軸培林 Output Shaft Bearing	允許最大軸徑 MAX Available Diameter
	18	Ø18	6004	Ø20
	22	Ø22	6005	Ø25
	28	Ø28	6206	Ø30
	32	Ø32	6207	Ø35
	40	Ø40	6209	Ø45
	50	Ø50	6211	Ø55

臥式 / 立式三相減速馬達 GH...S/GV...S Horizontal/Vertical Type With Aluminum / 3-Phase Motor

0.1KW(1/8HP)

臥式
Horizontal Type

Type: GH...S



0.1KW(1/8HP)

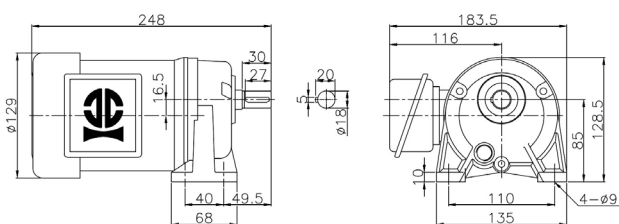
立式
Vertical Type

Type: GV...S



圖 S1
18

GH-18-100-5S~40S



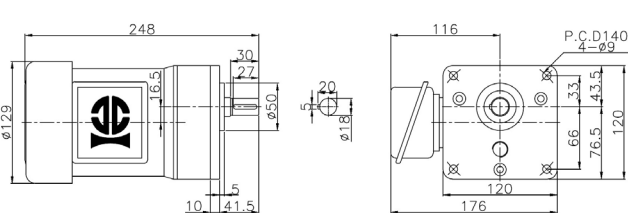
5.2Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30,40

圖 S4
18

GV-18-100-5S~40S



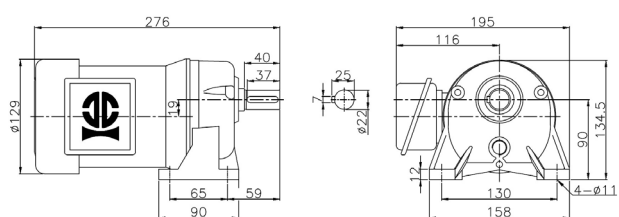
5.2Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30,40

圖 S2
22

GH-22-100-50S~200S



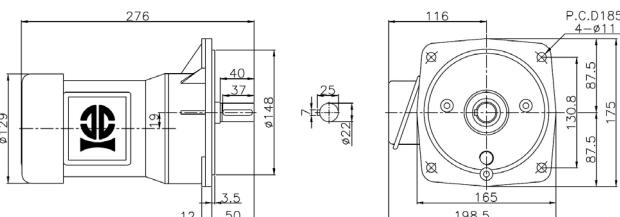
6.1Kg / 0.22L

RATIO

50,60,75,90,100,120,150,180,200

圖 S5
22

GV-22-100-50S~200S



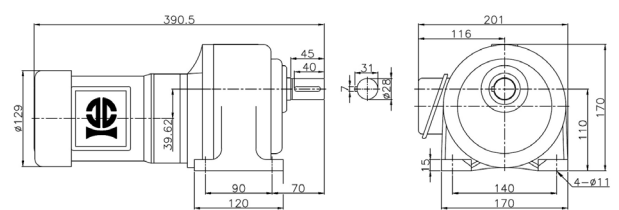
6.5Kg / 0.22L

RATIO

50,60,75,90,100,120,150,180,200

圖 S3
28

GH-28-100-250S~1800S



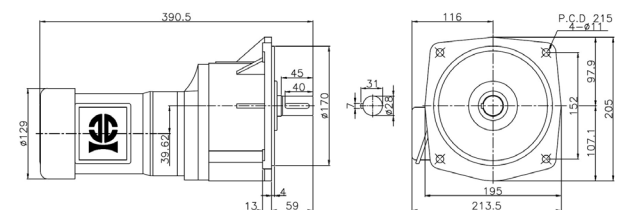
10.1Kg / 0.53L

RATIO

250,300,...,1500,1800

圖 S6
28

GV-28-100-250S~1800S



10.9Kg / 0.53L

RATIO

250,300,...,1500,1800



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.2KW(1/4HP)

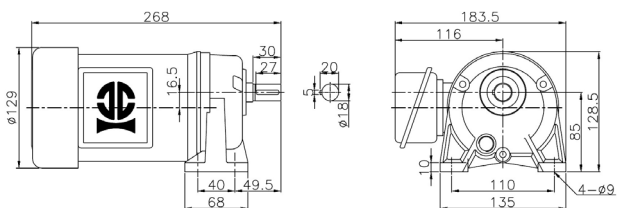
臥式
Horizontal Type

Type: GH...S



圖 S7
18

GH-18-200-5S~30S



6.8Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30

0.2KW(1/4HP)

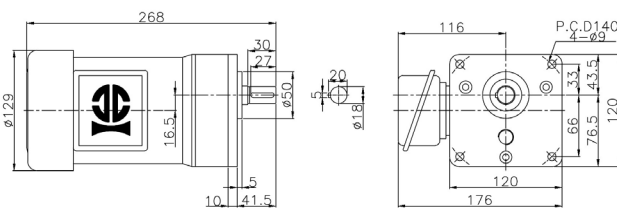
立式
Vertical Type

Type: GV...S



圖 S11
18

GV-18-200-5S~30S



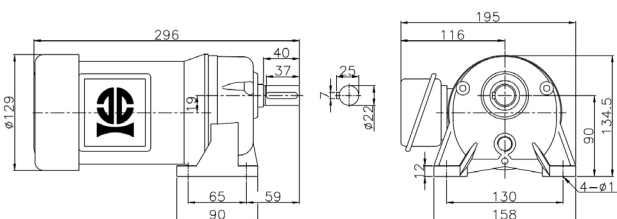
6.8Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30

圖 S8
22

GH-22-200-5S~100S



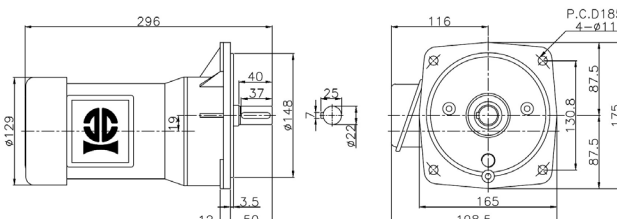
7.7Kg / 0.22L

RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

圖 S12
22

GV-22-200-5S~100S



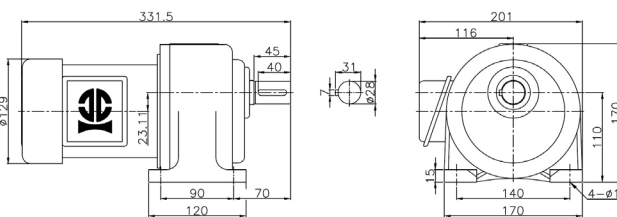
8.9Kg / 0.22L

RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

圖 S9
28

GH-28-200-100S~200S



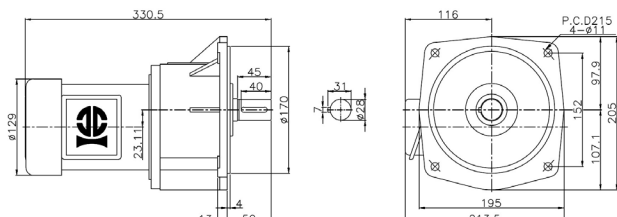
10.1Kg / 0.53L

RATIO

100,120,150,180,200

圖 S13
28

GV-28-200-100S~200S



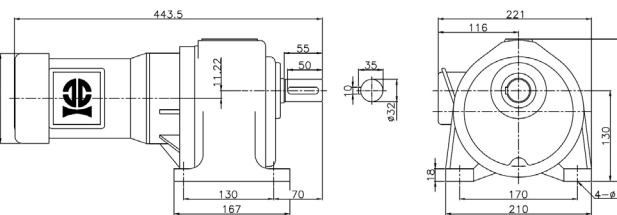
10.9Kg / 0.53L

RATIO

100,120,150,180,200

圖 S10
32

GH-32-200-250S~1800S



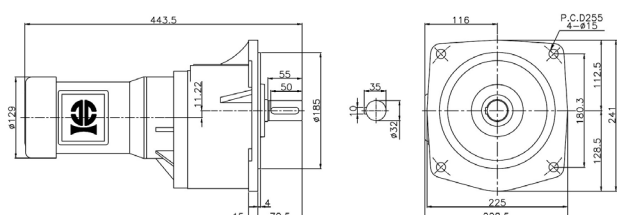
25.6Kg / 1.02L

RATIO

250,300,...,1500,1800

圖 S14
32

GV-32-200-250S~1800S



25.5Kg / 1.02L

RATIO

250,300,...,1500,1800



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.75KW(1HP)

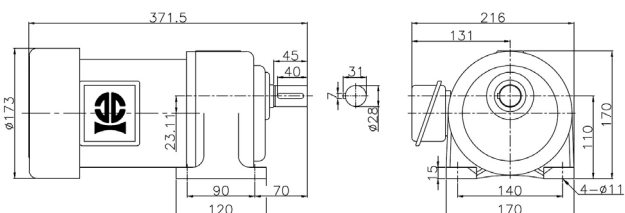
臥式
Horizontal Type

Type: GH...S



S23
28

GH-28-750-5S~25S

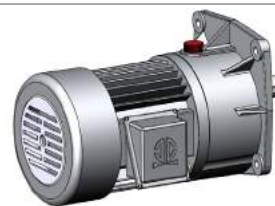


14.2Kg / 0.53L RATIO 5,10,12.5,15,20,25

0.75KW(1HP)

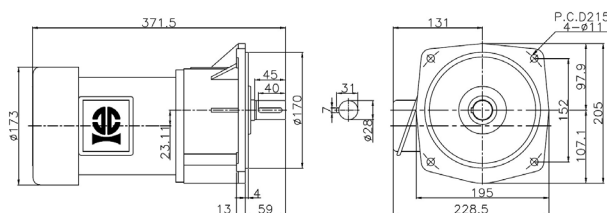
立式
Vertical Type

Type: GV...S



S27
28

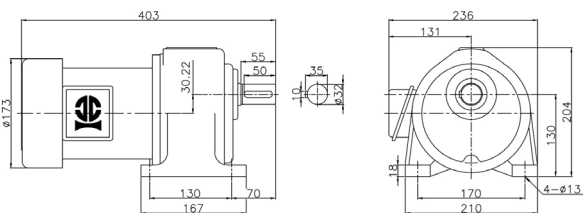
GV-28-750-5S~25S



15.0Kg / 0.53L RATIO 5,10,12.5,15,20,25

S24
32

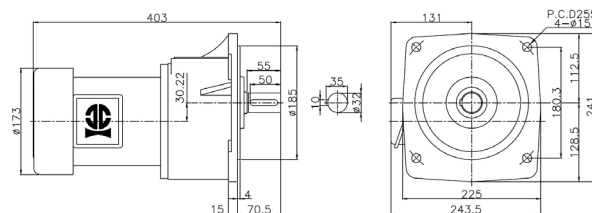
GH-32-750-30S~120S



27.4Kg / 0.80L RATIO 30,40,50,60,75,90,100,120

S28
32

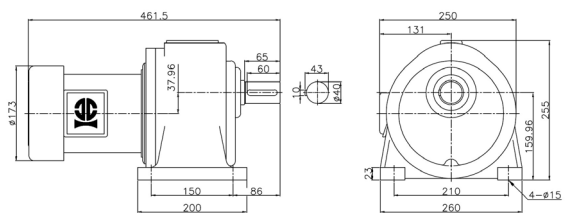
GV-32-750-30S~120S



26.8Kg / 0.80L RATIO 30,40,50,60,75,90,100,120

S25
40

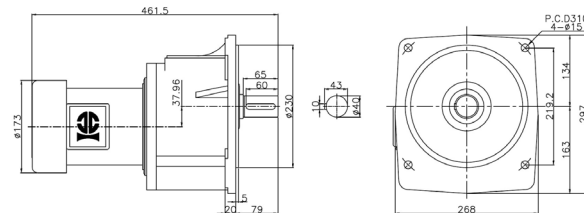
GH-40-750-40S~200S



44.8Kg / 2.00L RATIO 40,50,60,75,90,100,120,150,180,200

S29
40

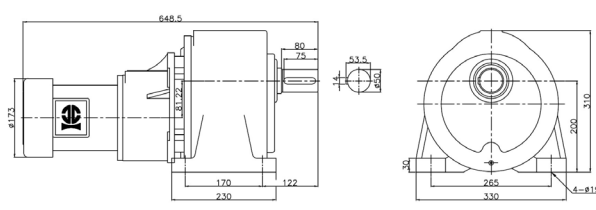
GV-40-750-40S~200S



45.2Kg / 2.00L RATIO 40,50,60,75,90,100,120,150,180,200

S26
50

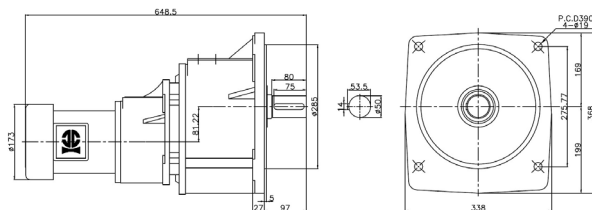
GH-50-750-250S~1800S



95.2Kg / 4.00L RATIO 250,300,...,1500,1800

S30
50

GV-50-750-250S~1800S



94.8Kg / 4.00L RATIO 250,300,...,1500,1800

Small Gear Reducer (Motor) 小型齒輪減速(馬達)

C
C01~C45

1.5KW(2HP)	
臥式 Horizontal Type	
Type: GH...S	

1.5KW(2HP)	
立式 Vertical Type	
Type: GV...S	

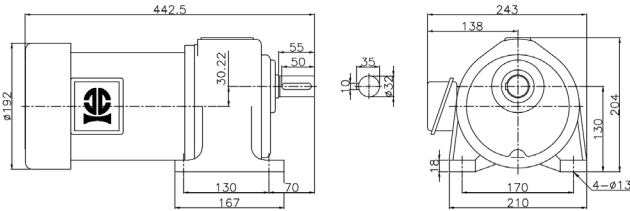
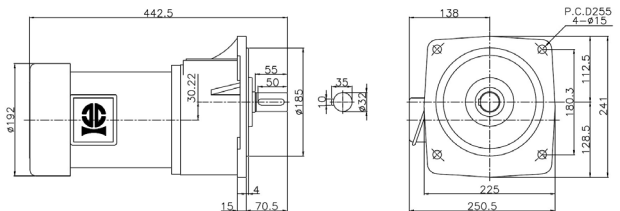
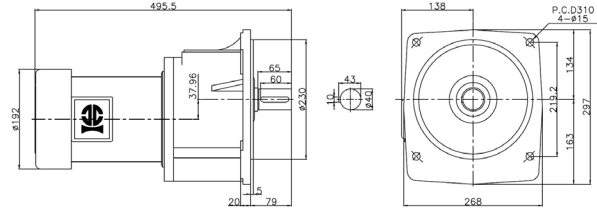
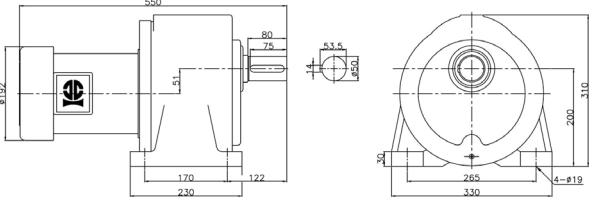
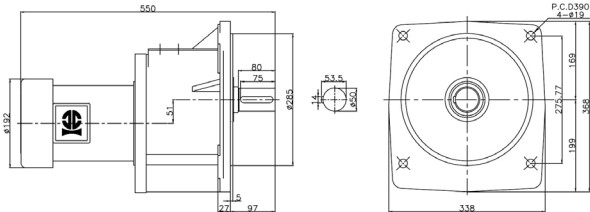
 S31 32	GH-32-1500-5S~30S	
		
32.7Kg / 0.80L	RATIO	5,10,12.5,15,20,25,30

圖 S34 32	GV-32-1500-5S~30S	
		
33.3Kg / 0.80L	RATIO	5,10,12.5,15,20,25,30

 S32	GH-40-1500-40S~100S	
40		
51.3Kg / 2.00L	RATIO	40,50,60,75,90,100

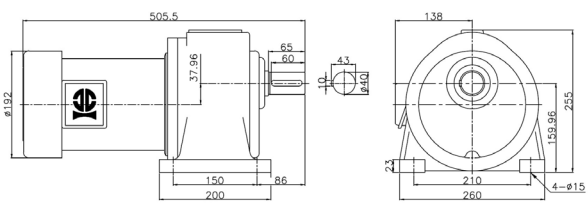
S35 40 GV-40-1500-40S~100S		
		
52.9Kg / 2.00L	RATIO	40,50,60,75,90,100

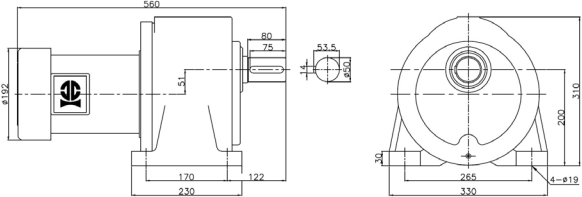
 S33 50	GH-50-1500-120S~200S	
		
83.2 / 3.20L	RATIO	120,150,180,200

 S36	GV-50-1500-120S~200S	
50		
		
82.8Kg / 3.20L	RATIO	120,150,180,200

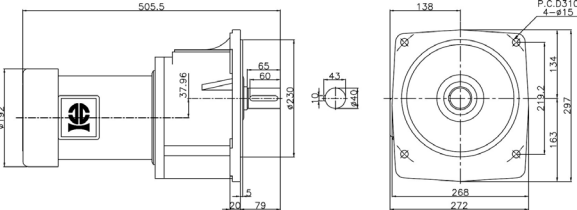
小型齒輪減速(馬達) Small Gear Reducer (Motor)

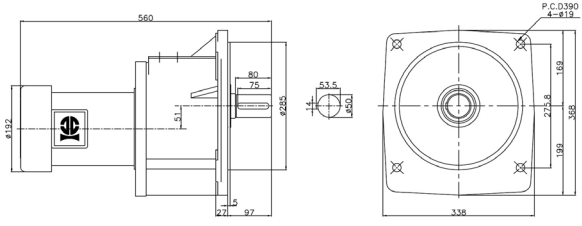
2.2KW(3HP)	
臥式 Horizontal Type	
Type: GH...S	

 S37 40	GH-40-2200-5S~40S	
		
54.4Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40

 S38 50	GH-50-2200-50S~100S	
		
85.7Kg / 3.20L	RATIO	50,60,75,90,100

2.2KW(3HP)	
立式 Vertical Type	
Type: GV...S	

 S39 40	GV-40-2200-5S~40S	
		
54.4Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40

 S40 50	GV-50-2200-50S~100S	
		
85.7Kg / 3.20L	RATIO	50,60,75,90,100

臥式 / 立式三相減速馬達附剎車 GH...SB/GV...SB Horizontal/Vertical Type With Aluminum / 3-Phase Brake Motor

0.1KW(1/8HP)

臥式
Horizontal Type

Type: GH...S



0.1KW(1/8HP)

立式
Vertical Type

Type: GV...S

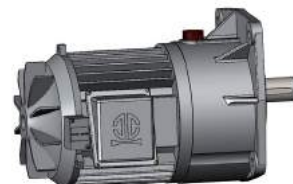
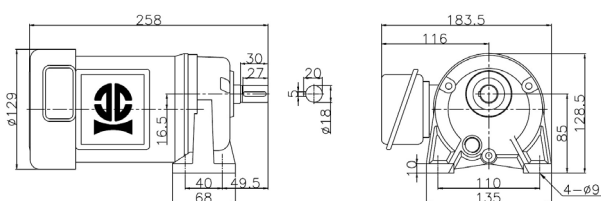


圖 SB1
18

GH-18-100-5S~40S



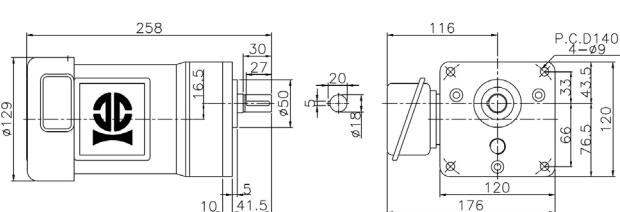
6.7Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30,40

圖 SB4
18

GV-18-100-5S~40S



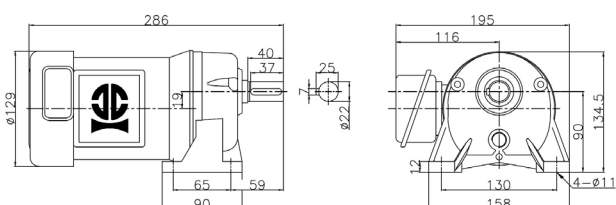
6.7Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30,40

圖 SB2
22

GH-22-100-50S~200S



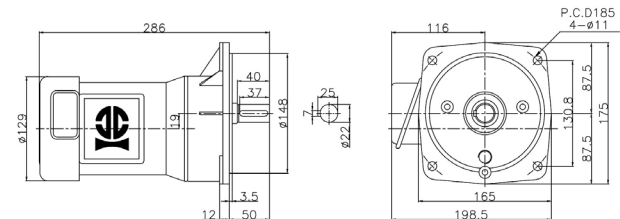
7.6Kg / 0.22L

RATIO

50,60,75,90,100,120,150,180,200

圖 SB5
22

GV-22-100-50S~200S



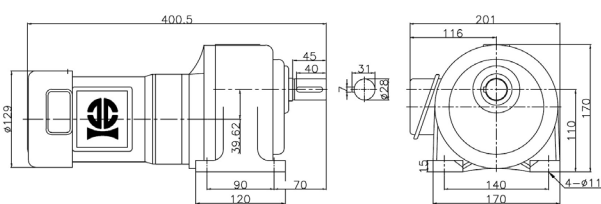
8.0Kg / 0.22L

RATIO

50,60,75,90,100,120,150,180,200

圖 SB3
28

GH-28-100-250S~1800S



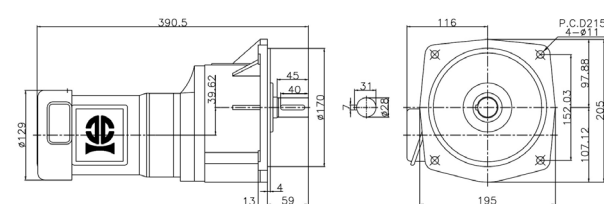
11.6Kg / 0.53L

RATIO

250,300,...,1500,1800

圖 SB6
28

GV-28-100-250S~1800S



12.4Kg / 0.53L

RATIO

250,300,...,1500,1800

Small Gear Reducer (Motor) 小型齒輪減速(馬達)

C
C01~C45

0.2KW(1/4HP)

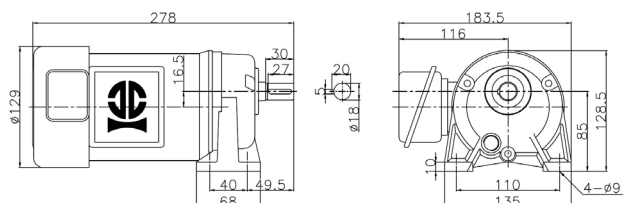
臥式
Horizontal Type

Type: GH...SB



SB7
18

GH-18-200-5S~30S



8.3Kg / 0.13L

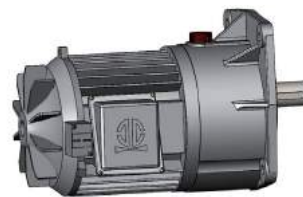
RATIO

5,10,12.5,15,20,25,30

0.2KW(1/4HP)

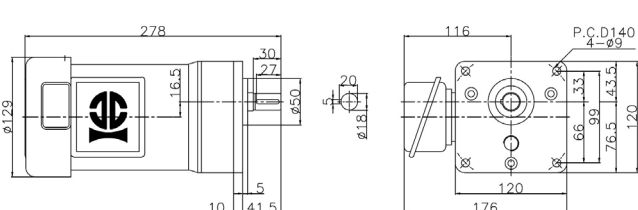
立式
Vertical Type

Type: GV...SB



SB11
18

GV-18-200-5S~30S



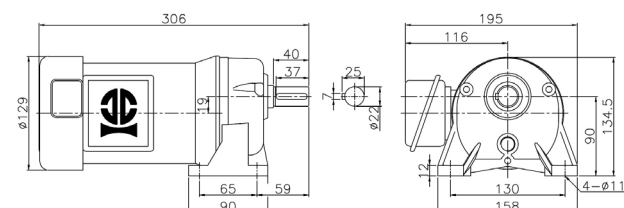
8.3Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30

SB8
22

GH-22-200-5S~100S



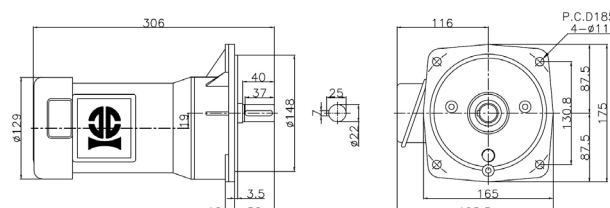
9.2Kg / 0.22L

RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

SB12
22

GV-22-200-5S~100S



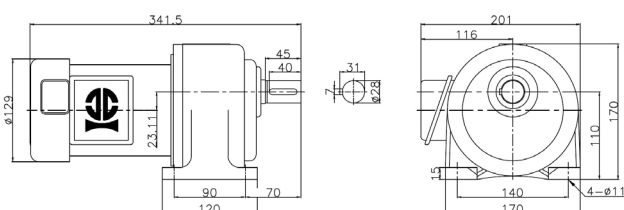
10.4Kg / 0.22L

RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

SB9
28

GH-28-200-100S~200S



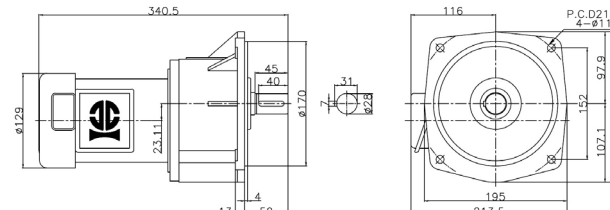
11.6Kg / 0.53L

RATIO

100,120,150,180,200

SB13
28

GV-28-200-100S~200S



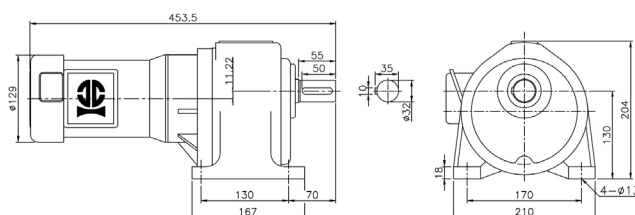
12.4Kg / 0.53L

RATIO

100,120,150,180,200

SB10
32

GH-32-200-250S~1800S



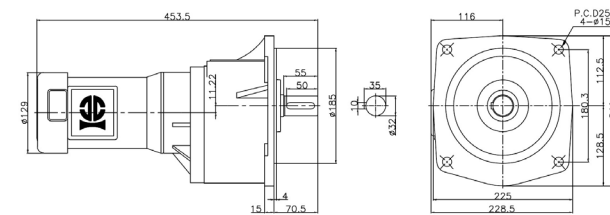
27.1Kg / 1.02L

RATIO

250,300,...,1500,1800

SB14
32

GV-32-200-250S~1800S



27.0Kg / 1.02L

RATIO

250,300,...,1500,1800



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.4KW(1/2HP)

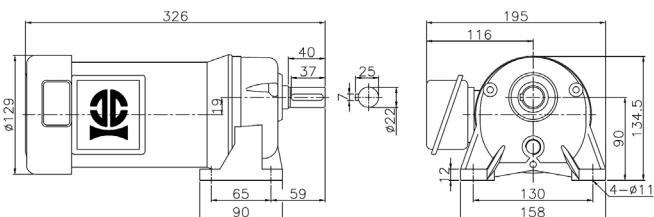
臥式
Horizontal Type

Type: GH...SB



SB15
22

GH-22-400-5S~25S



11.5Kg / 0.22L RATIO 5,10,12.5,15,20,25

0.4KW(1/2HP)

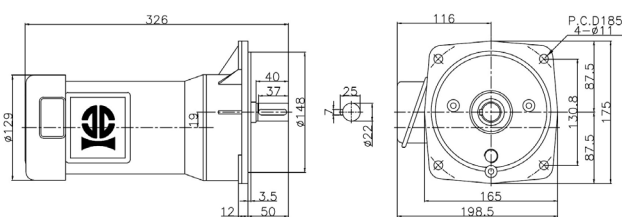
立式
Vertical Type

Type: GV...SB



SB19
22

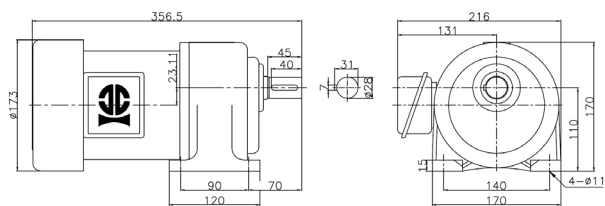
GV-22-400-5S~25S



11.7Kg / 0.22L RATIO 5,10,12.5,15,20,25

SB16
28

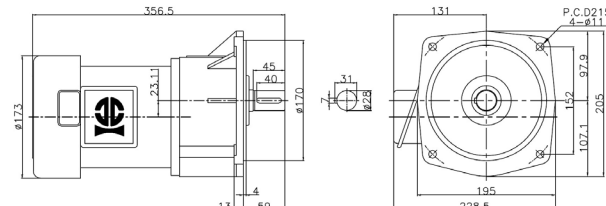
GH-28-400-5S~90S



15.3Kg / 0.53L RATIO 5,10,12.5,15,20,25,30,40,50,60,75,90

SB20
28

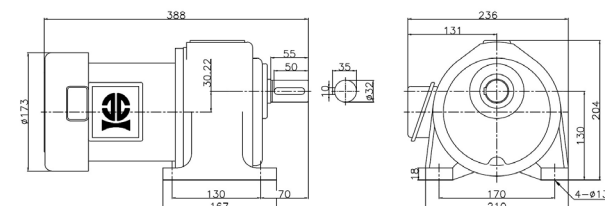
GV-28-400-5S~90S



15.6Kg / 0.53L RATIO 5,10,12.5,15,20,25,30,40,50,60,75,90

SB17
32

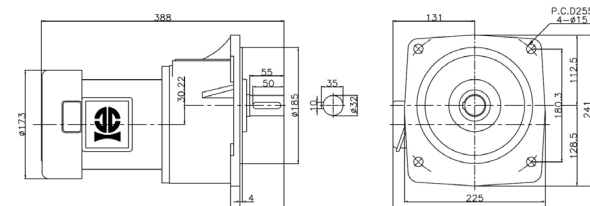
GH-32-400-100S~200S



27.6Kg / 0.80L RATIO 100,120,150,180,200

SB21
32

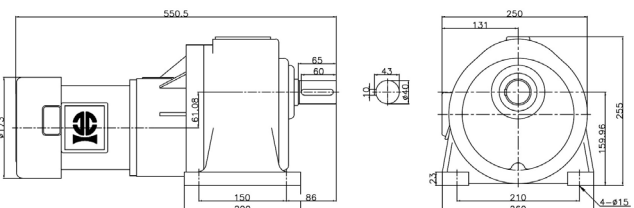
GV-32-400-100S~200S



27.5Kg / 0.80L RATIO 100,120,150,180,200

SB18
40

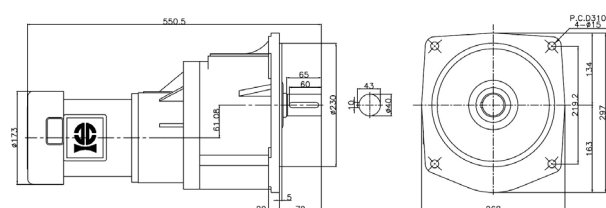
GH-40-400-250S~1800S



50.5Kg / 2.00L RATIO 250,300,...,1500,1800

SB22
40

GV-40-400-250S~1800S

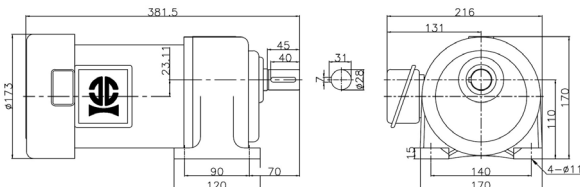


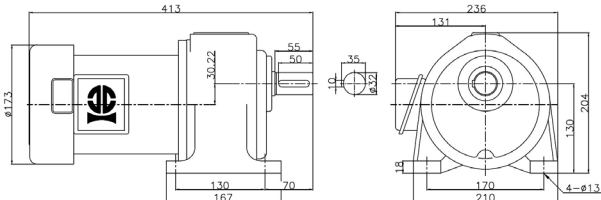
50.9Kg / 2.00L RATIO 250,300,...,1500,1800

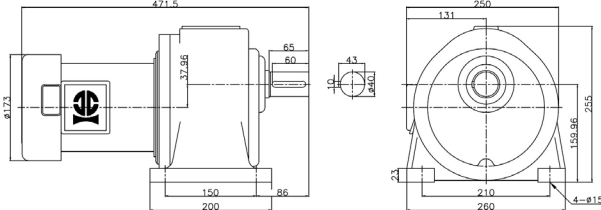
Small Gear Reducer (Motor) 小型齒輪減速(馬達)

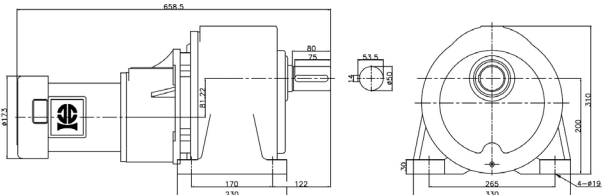
C
C01~C45

0.75KW(1HP)	
臥式 Horizontal Type	
Type: GH...SB	

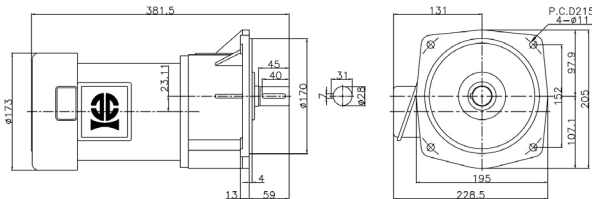
 SB23	GH-28-750-5S~25S	
28		
		
17.2Kg / 0.53L	RATIO	5,10,12.5,15,20,25

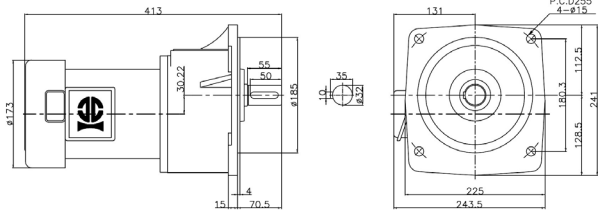
 SB24		GH-32-750-30S~120S
32		
		
30.4Kg / 0.80L	RATIO	30,40,50,60,75,90,100,120

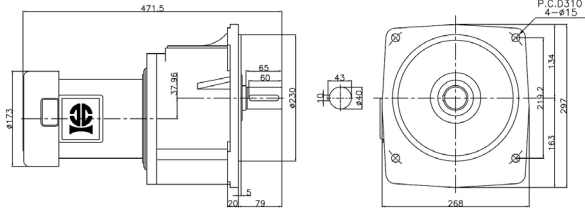
 SB25		GH-40-750-40S~200S
40		
		
47.8Kg / 2.00L	RATIO	40,50,60,75,90,100,120,150,180,200

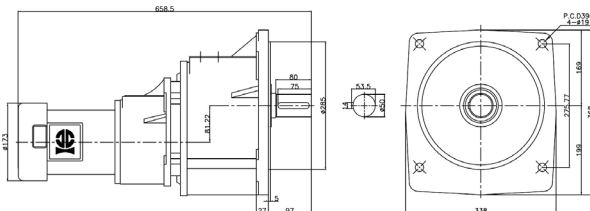
 SB26 50	GH-50-750-250S~1800S	
		
98.2Kg / 4.00L	RATIO	250,300,...,1500,1800

0.75KW(1HP)	
立式 Vertical Type	
Type: GV...SB	

 SB27	GV-28-750-5S~25S	
28		
		
18.0Kg / 0.53L	RATIO	5,10,12.5,15,20,25

 SB28	GV-32-750-30S~120S	
32		
		
29.8Kg / 0.80L	RATIO	30,40,50,60,75,90,100,120

 SB29 40		GV-40-750-40S~200S	
			
48.2Kg / 2.00L	RATIO	40,50,60,75,90,100,120,150,180,200	

 SB30 50	GV-50-750-250S~1800S	
		
97.8Kg / 4.00L	RATIO	250,300,...,1500,1800



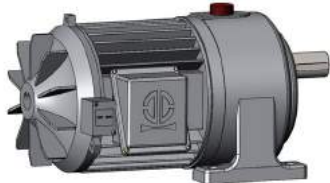
LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

1.5KW(2HP)

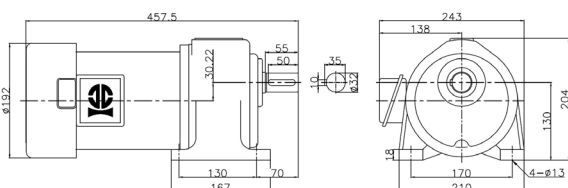
臥式
Horizontal Type

Type: GH...SB



SB31
32

GH-32-1500-5S~30S



37.2Kg / 0.80L

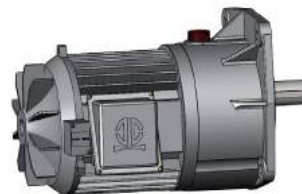
RATIO

5,10,12.5,15,20,25,30

1.5KW(2HP)

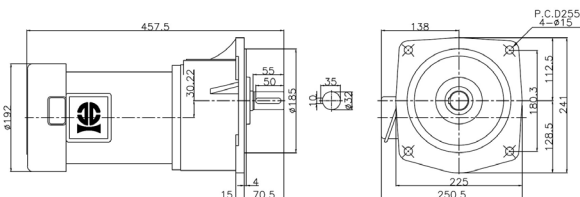
立式
Vertical Type

Type: GV...SB



SB34
32

GV-32-1500-5S~30S



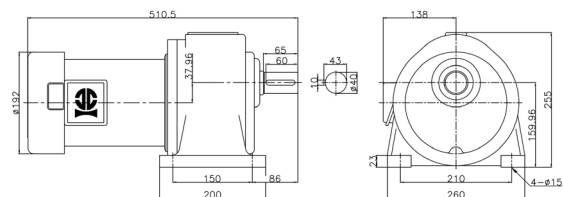
37.8Kg / 0.80L

RATIO

5,10,12.5,15,20,25,30

SB32
40

GH-40-1500-40S~100S



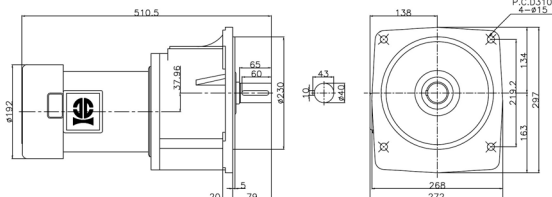
55.8Kg / 2.00L

RATIO

40,50,60,75,90,100

SB35
40

GV-40-1500-40S~100S



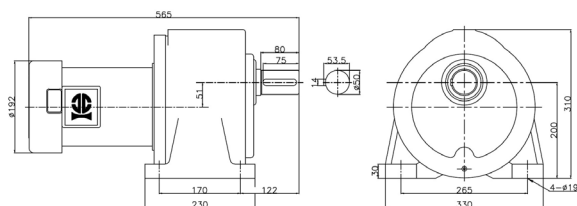
57.4Kg / 2.00L

RATIO

40,50,60,75,90,100

SB33
50

GH-50-1500-120S~200S



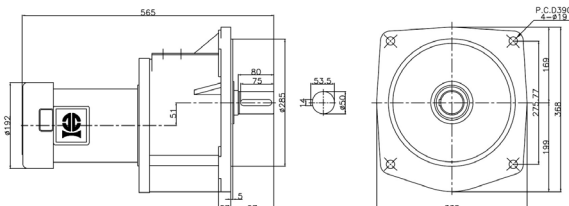
87.7Kg / 3.20L

RATIO

120,150,180,200

SB36
50

GV-50-1500-120S~200S



87.3Kg / 3.20L

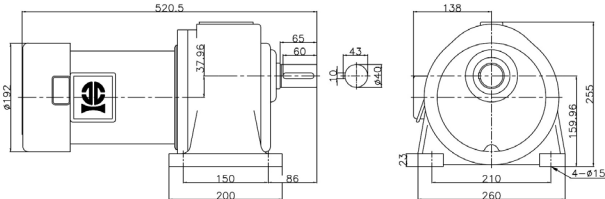
RATIO

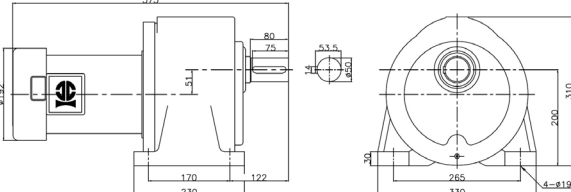
120,150,180,200

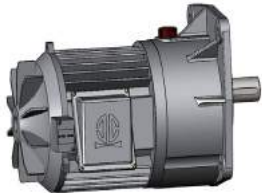
Small Gear Reducer (Motor) 小型齒輪減速(馬達)

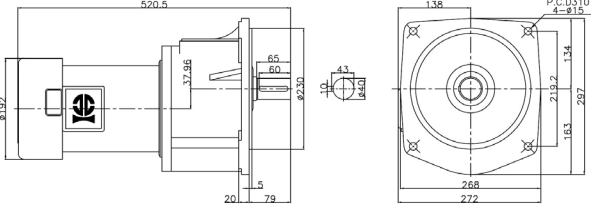
C
C01~C45

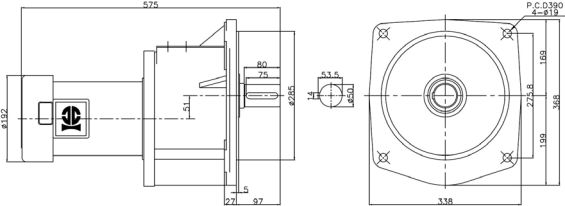
2.2KW(3HP)	
臥式 Horizontal Type	
Type: GH...SB	

 SB37	GH-40-2200-5S~40S	
40		
		
58.9Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40

 SB38	GH-50-2200-50S~100S	
50		
		
90.2Kg / 3.20L	RATIO	50,60,75,90,100

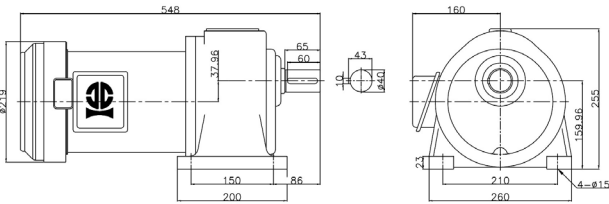
2.2KW(3HP)	
立式 Vertical Type	
Type: GV...SB	

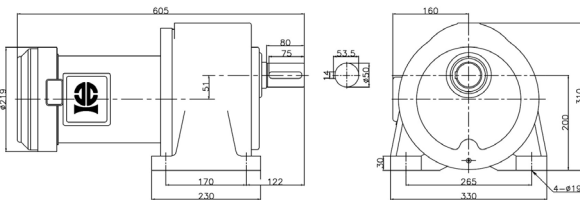
 SB39	GV-40-2200-5S~40S	
40		
		
58.9Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40

 SB40	GV-50-2200-50S~100S	
50		
		
90.2Kg / 3.20L	RATIO	50,60,75,90,100

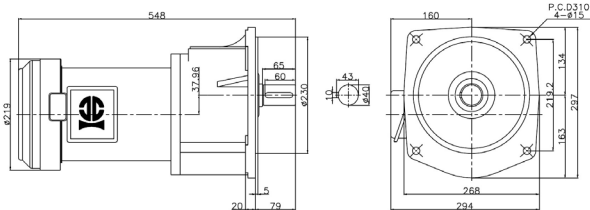
小型齒輪減速(馬達) Small Gear Reducer (Motor)

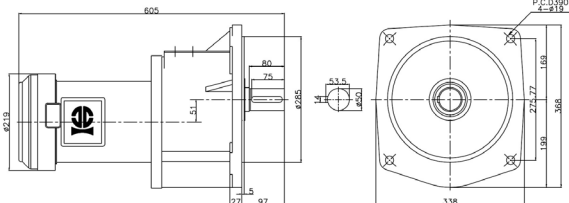
3.7KW(5HP)	
臥式 Horizontal Type	
Type: GH...SB	

 SB41 40	GH-40-3700-5S~20S	
		
60.9Kg / 2.00L	RATIO	5,10,12.5,15,20

 SB42 50	GH-50-3700-5S~60S	
		
97.5Kg / 3.20L	RATIO	5,10,12.5,15,20,25,30,40,50,60

3.7KW(5HP)	
立式 Vertical Type	
Type: GV...SB	

 SB43	GV-40-3700-5S~20S	
40		
		
60.9Kg / 2.00L	RATIO	5,10,12.5,15,20

 SB44 50	GV-50-3700-5S~60S	
		
97.5Kg / 3.20L	RATIO	5,10,12.5,15,20,25,30,40,50,60



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.2KW(1/4HP)

臥式
Horizontal Type

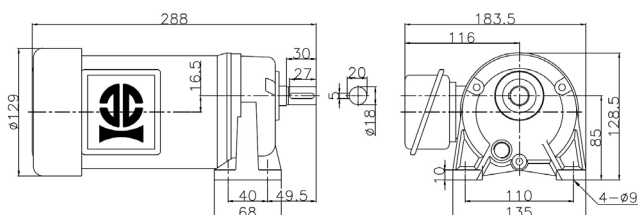
Type: GH...A(AB)



圖 A7

18

GH-18-200-5A~30A



8.3Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30

0.2KW(1/4HP)

立式
Vertical Type

Type: GV...A(AB)

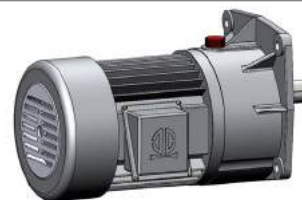
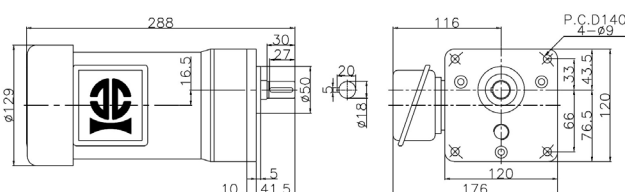


圖 A11

18

GV-18-200-5A~30A



8.3Kg / 0.13L

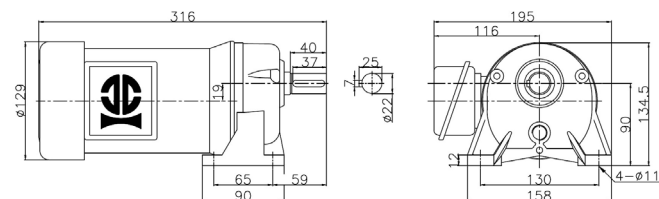
RATIO

5,10,12.5,15,20,25,30

圖 A8

22

GH-22-200-5A~100A



9.2Kg / 0.22L

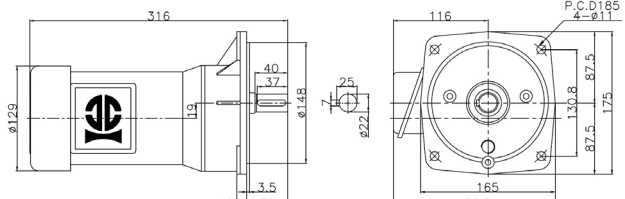
RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

圖 A12

22

GV-22-200-5A~100A



10.4Kg / 0.22L

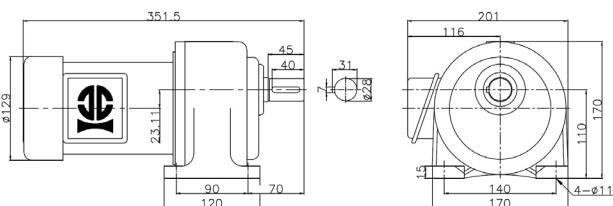
RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

圖 A9

28

GH-28-200-100A~200A



11.6Kg / 0.53L

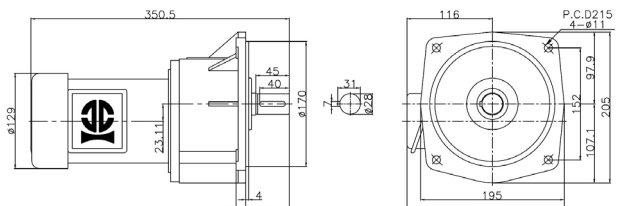
RATIO

100,120,150,180,200

圖 A13

28

GV-28-200-100A~200A



12.4Kg / 0.53L

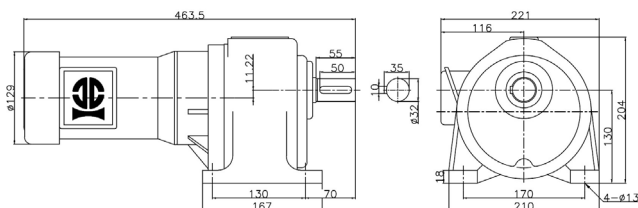
RATIO

100,120,150,180,200

圖 A10

32

GH-32-200-250A~1800A



27.1Kg / 1.02L

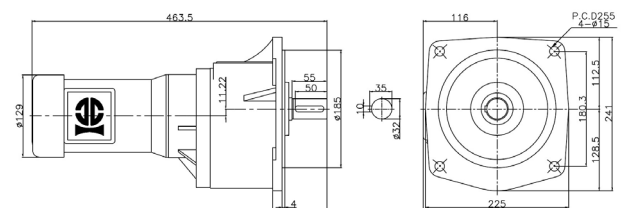
RATIO

250,300,...,1500,1800

圖 A14

32

GV-32-200-250A~1800A



27Kg / 1.02L

RATIO

250,300,...,1500,1800



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.75KW(1HP)

臥式
Horizontal Type

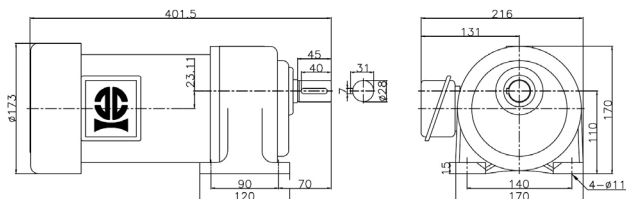
Type: GH...A(AB)



A21

28

GH-28-750-5A~25A



17.2Kg / 0.53L

RATIO

5,10,12.5,15,20,25

0.75KW(1HP)

立式
Vertical Type

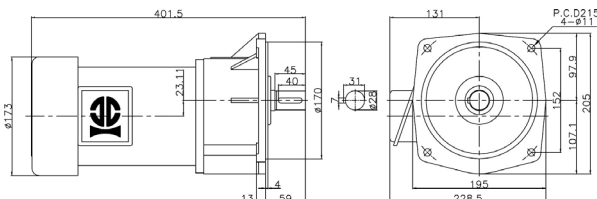
Type: GV...A(AB)



A25

28

GV-28-750-5A~25A



18.0Kg / 0.53L

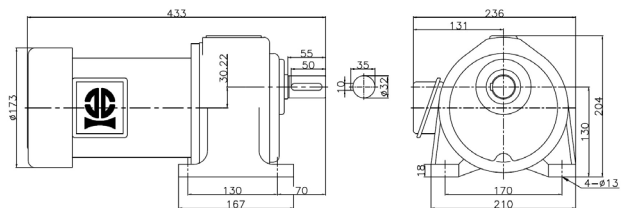
RATIO

5,10,12.5,15,20,25

A22

32

GH-32-750-30A~120A



30.4Kg / 0.80L

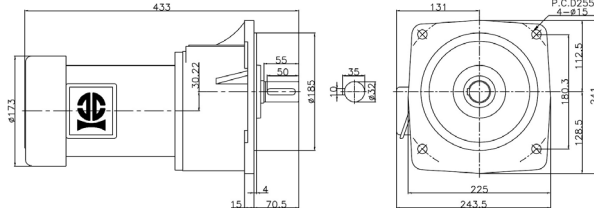
RATIO

30,40,50,60,75,90,100,120

A26

32

GV-32-750-30A~120A



29.8Kg / 0.80L

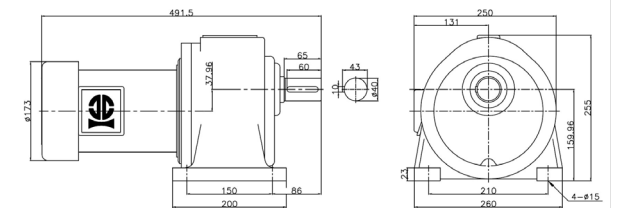
RATIO

30,40,50,60,75,90,100,120

A23

40

GH-40-750-40A~200A



47.8Kg / 2.00L

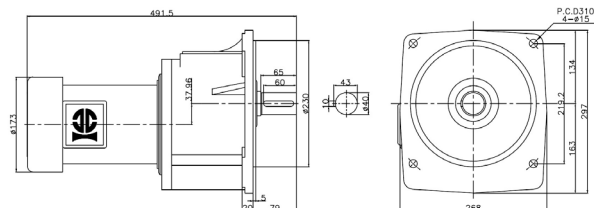
RATIO

40,50,60,75,90,100,120,150,180,200

A27

40

GV-40-750-40A~200A



48.2Kg / 2.00L

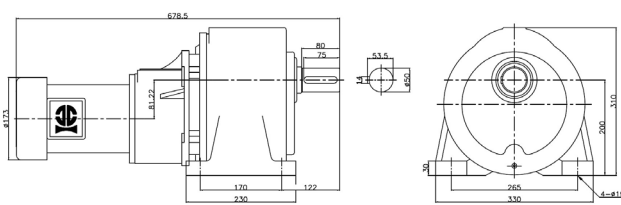
RATIO

40,50,60,75,90,100,120,150,180,200

A24

50

GH-50-750-250A~1800A



98.2Kg / 4.00L

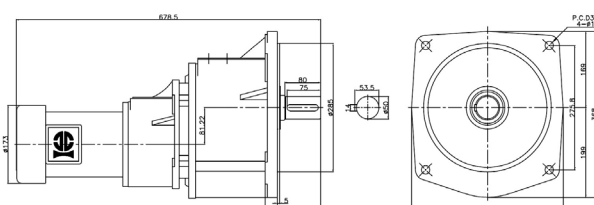
RATIO

250,300,...,1500,1800

A28

50

GV-50-750-250A~1800A



97.8Kg / 4.00L

RATIO

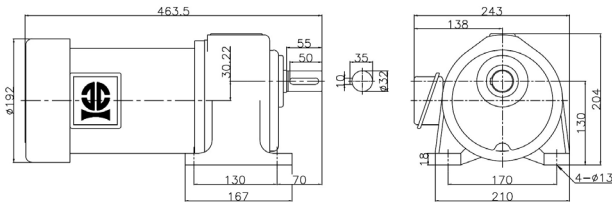
250,300,...,1500,1800

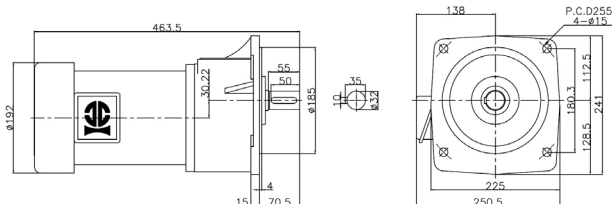
Small Gear Reducer (Motor) 小型齒輪減速(馬達)

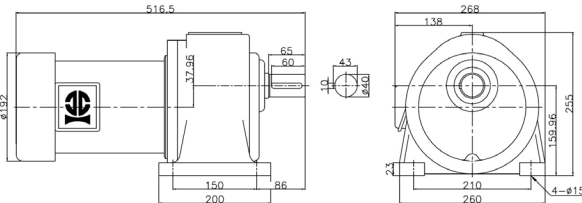
C
C01~C45

1.5KW(2HP)	
臥式 Horizontal Type	
Type: GH...A(AB)	

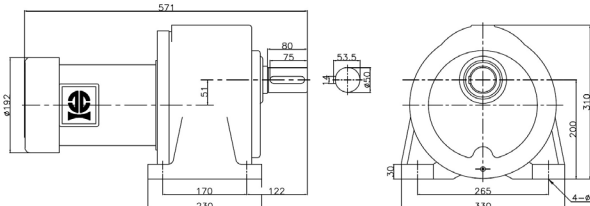
1.5KW(2HP)	
立式 Vertical Type	
Type: GV...A(AB)	

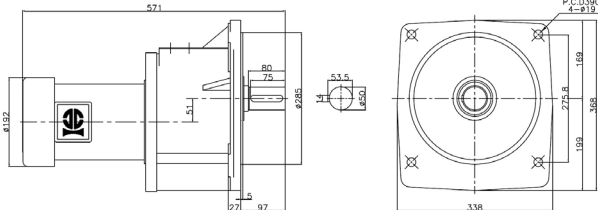
 A29 32	GH-32-1500-5A~30A	
		
37.2Kg / 0.80L	RATIO	5,10,12.5,15,20,25,30

 A32	GV-32-1500-5A~30A	
32		
		
37.8Kg / 0.80L	RATIO	5,10,12.5,15,20,25,30

 A30 40	GH-40-1500-40A~100A	
		
55.8Kg / 2.00L	RATIO	40,50,60,75,90,100

A33 40	GV-40-1500-40A~100A				
516.5 4132 37.65 65 60 43 10 46 60 5 79 42.50 20 5 213.2 163 134 297 268 P.C.D.310 4-ø15			57.4Kg / 2.00L	RATIO	40,50,60,75,90,100

 A31 50	GH-50-1500-120A~200A	
		
87.7Kg / 3.20L	RATIO	120,150,180,200

 A34 50	GV-50-1500-120A~200A	
		
87.3Kg / 3.20L	RATIO	120,150,180,200

臥式 / 立式直結法蘭齒輪減速機 GHM/GVM Input Flange Type With Horizontal/Vertical Mount

0.1KW(1/8HP)

臥式
Horizontal Type

Type: GHM

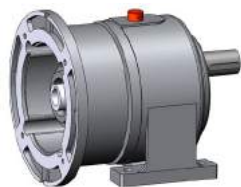
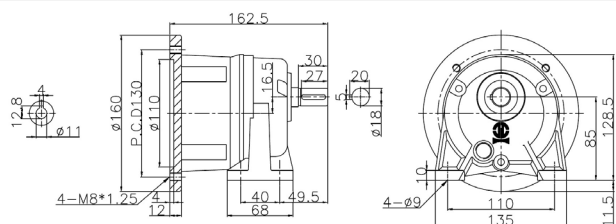


圖 M1
18

GHM-18-100-5S~40S



2.7Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30,40

0.1KW(1/8HP)

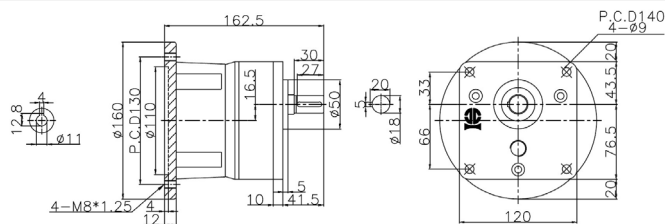
立式
Vertical Type

Type: GVM



圖 M4
18

GVM-18-100-5S~40S



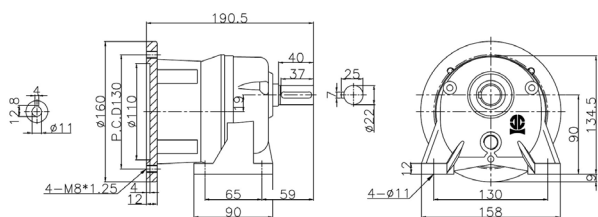
2.0Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30,40

圖 M2
22

GHM-22-100-50S~200S



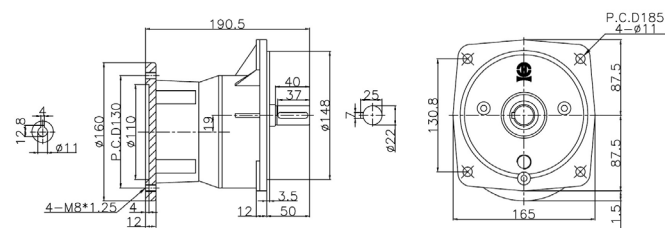
3.6Kg / 0.22L

RATIO

50,60,75,90,100,120,150,180,200

圖 M5
22

GVM-22-100-50S~200S



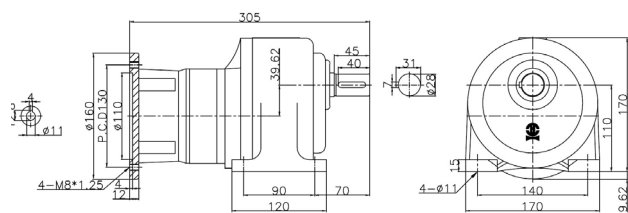
3.3Kg / 0.22L

RATIO

50,60,75,90,100,120,150,180,200

圖 M3
28

GHM-28-100-250S~1800S



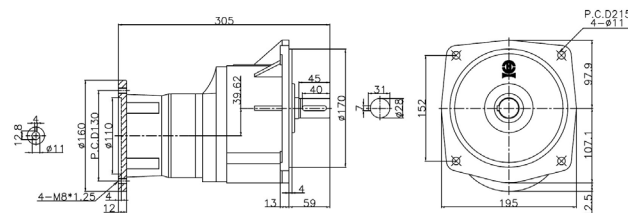
7.6Kg / 0.53L

RATIO

250,300,...,1500,1800

圖 M6
28

GVM-28-100-250S~1800S



7.8Kg / 0.53L

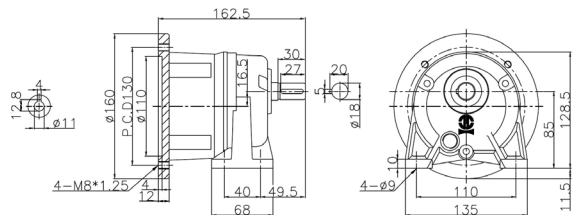
RATIO

250,300,...,1500,1800

Small Gear Reducer (Motor) 小型齒輪減速(馬達)

C
C01~C45

0.2KW(1/4HP)	
臥式 Horizontal Type	
Type: GHM	

圖 M7 18	GHM-18-200-5S~30S	
		
2.7Kg / 0.13L	RATIO	5,10,12.5,15,20,25,30

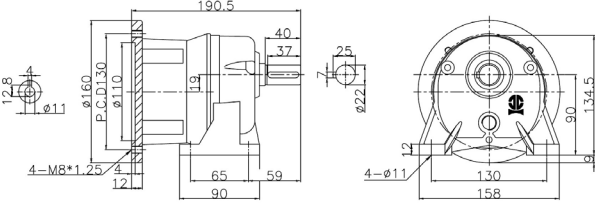
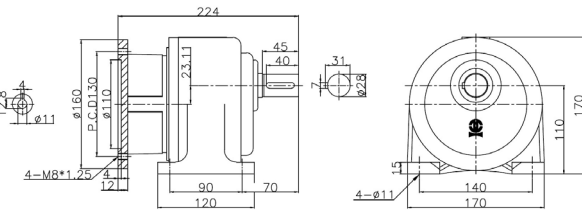
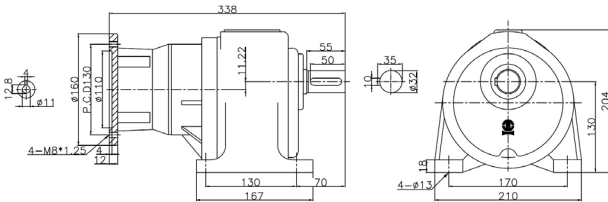
 M8 22	GHM-22-200-5S~100S	
		
3.6Kg / 0.22L	RATIO	5,10,12.5,15,20,25,30,40,50,60,75,90,100

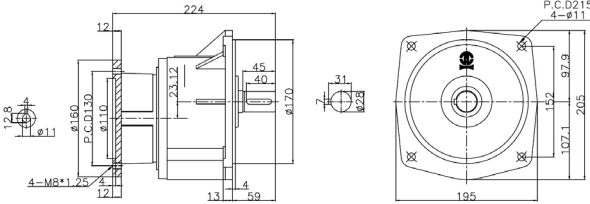
圖 M9 28	GHM-28-200-100S~200S	
		
6.1Kg / 0.53L	RATIO	100,120,150,180,200

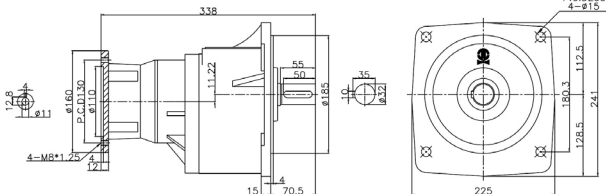
 M10 32	GHM-32-200-250S~1800S	
		
21.5Kg / 1.02L	RATIO	250,300,...,1500,1800

0.2KW(1/4HP)	
立式 Vertical Type	
Type: GVM	

圖 A11 18	GVM-18-200-5S~30S	

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 M13 28	GVM-28-200-100S~200S	
		
6.9Kg / 0.53L	RATIO	100,120,150,180,200

 M14 32	GVM-32-200-250S~1800S	
		
21.4Kg / 1.02L	RATIO	250,300,...,1500,1800



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.4KW(1/2HP)

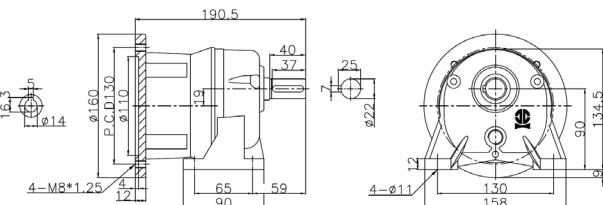
臥式
Horizontal Type

Type: GHM



M15
22

GHM-22-400-5S~25S



3.5Kg / 0.22L

RATIO

5,10,12.5,15,20,25

0.4KW(1/2HP)

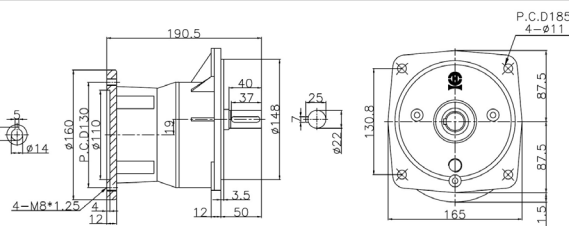
立式
Vertical Type

Type: GVM



M19
22

GVM-22-400-5S~25S



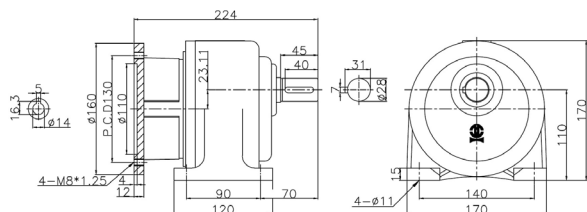
3.9Kg / 0.22L

RATIO

5,10,12.5,15,20,25

M16
28

GHM-28-400-5S~90S



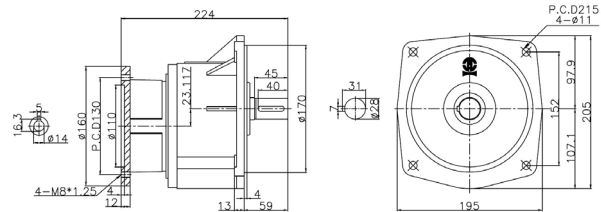
6.1Kg / 0.53L

RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90

M20
28

GVM-28-400-5S~90S



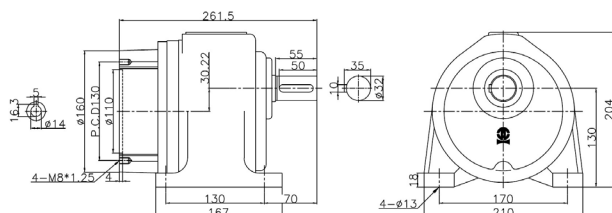
6.9Kg / 0.53L

RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90

M17
32

GHM-32-400-100S~200S



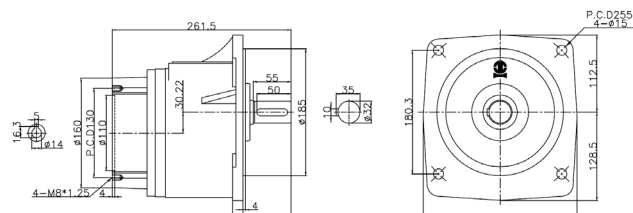
22.2Kg / 0.80L

RATIO

100,120,150,180,200

M21
32

GVM-32-400-100S~200S



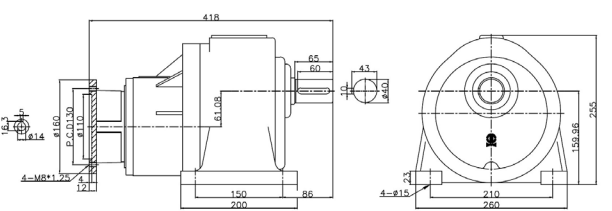
22.1Kg / 0.80L

RATIO

100,120,150,180,200

M18
40

GHM-40-400-250S~1800S



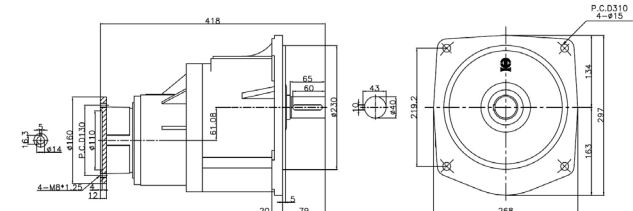
41.3Kg / 2.00L

RATIO

250,300,...,1500,1800

M22
40

GVM-40-400-250S~1800S



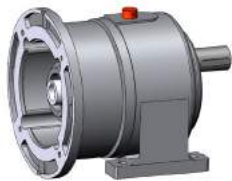
41.7Kg / 2.00L

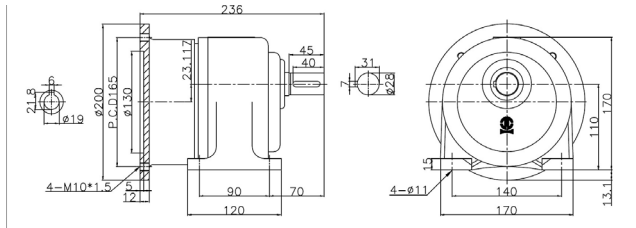
RATIO

250,300,...,1500,1800

Small Gear Reducer (Motor) 小型齒輪減速(馬達)

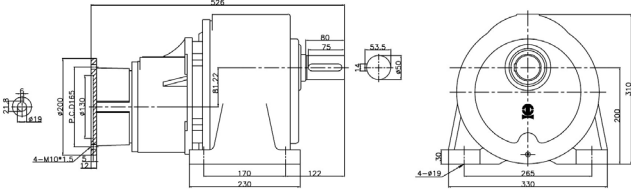
C
C01~C45

0.75KW(1HP)	
臥式 Horizontal Type	
Type: GHM	

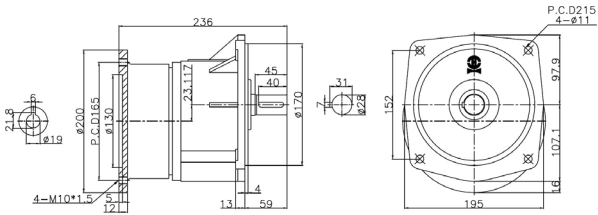
 M23 28	GHM-28-750-5S~25S	
		
6.9Kg / 0.53L	RATIO	5,10,12.5,15,20,25

 M24 32	GHM-32-750-30S~120S	

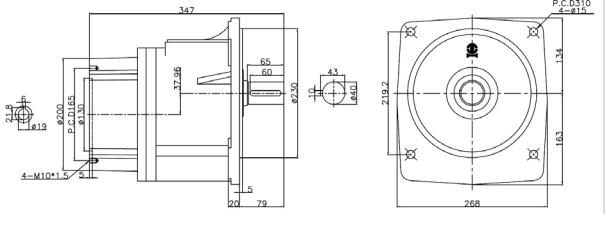
 M25 40	GHM-40-750-40S~200S	

 M26 50	GHM-50-750-250S~1800S	
		
91.5Kg / 4.00L	RATIO	250,300,...,1500,1800

0.75KW(1HP)	
立式 Vertical Type	
Type: GVM	

 M27 28	GVM-28-750-5S~25S	
 Technical drawing of the GVM-28-750-5S~25S valve. The drawing includes a front view, a side view, and a detail view of the stem and nut. Key dimensions are: Front view: 195 (width), 107.1 (height), 152 (height to center), 97.9 (height to top), 16 (bottom flange thickness), 4 (bottom flange width), 13 (bottom flange offset), 59 (bottom flange offset), 4 (bottom flange offset), 45 (bottom flange offset), 40 (bottom flange offset), 23.1 (bottom flange offset), 236 (total width), 200 (height to center), 165 (height to top), 12 (height to bottom), 1.5 (height to bottom), 4-M10 (bottom flange holes), 21.8 (height to center), 19 (height		

 M28	GVM-32-750-30S~120S	
32		

 M29 40	GVM-40-750-40S~200S	
		
45.1Kg / 2.00L	RATIO	40,50,60,75,90,100,120,150,180,200

 M30 50	GVM-50-750-250S~1800S	



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

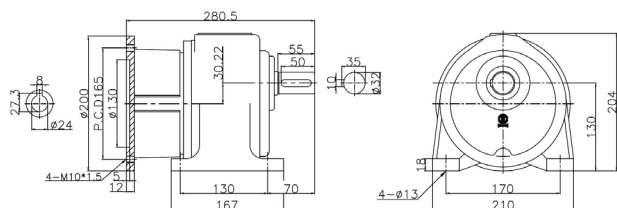
1.5KW(2HP)

臥式
Horizontal Type

Type: GHM



圖 M31
32

GHM-32-1500-5S~30S

23.6Kg / 0.80L

RATIO

5,10,12.5,15,20,25,30

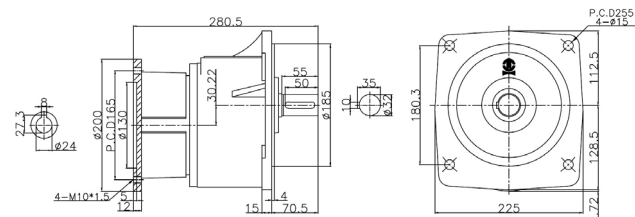
1.5KW(2HP)

立式
Vertical Type

Type: GVM



圖 M34
32

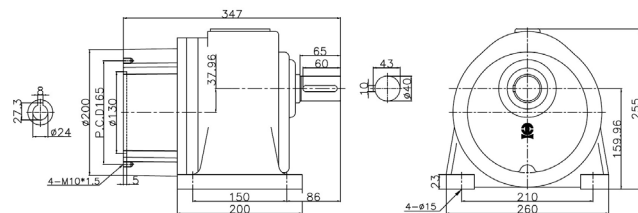
GVM-32-1500-5S~30S

23.5Kg / 0.80L

RATIO

5,10,12.5,15,20,25,30

圖 M32
40

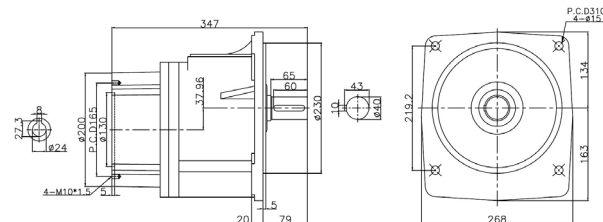
GHM-40-1500-40S~100S

44.6Kg / 2.00L

RATIO

40,50,60,75,90,100

圖 M35
40

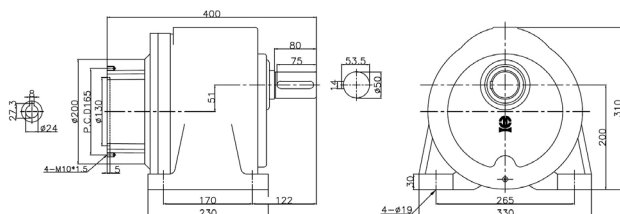
GVM-40-1500-40S~100S

45.0Kg / 2.00L

RATIO

40,50,60,75,90,100

圖 M33
50

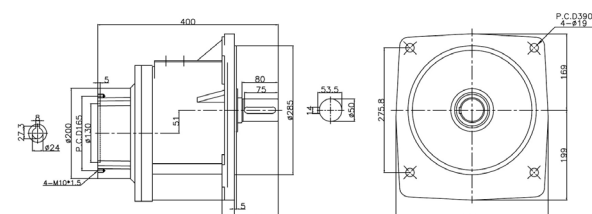
GHM-50-1500-120S~200S

80.0Kg / 3.20L

RATIO

120,150,180,200

圖 M36
50

GVM-50-1500-120S~200S

79.6Kg / 3.20L

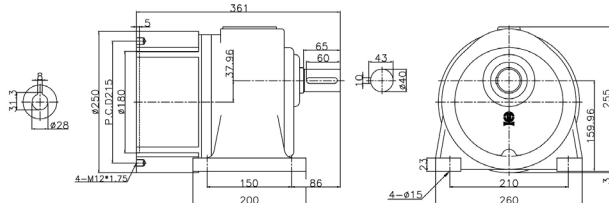
RATIO

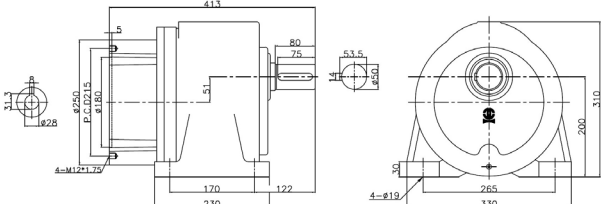
120,150,180,200

Small Gear Reducer (Motor) 小型齒輪減速(馬達)

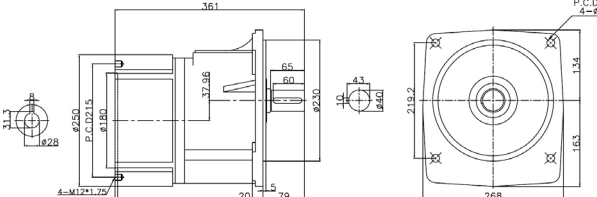
C
C01~C45

2.2KW(3HP)	
臥式 Horizontal Type	
Type: GHM	

 M37	GHM-40-2200-5S~40S		
40			
			
48.7Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40	

 M38 50	GHM-50-2200-50S~100S		
 Technical drawing of the GHM-50-2200-50S~100S unit, showing front, side, and end views with dimensions in millimeters. Front View Dimensions: - Overall width: 613 - Overall height: 310 - Base width: 230 - Base height: 170 - Top flange width: 122 - Top flange height: 51 - Top flange thickness: 5 - Top flange hole diameter: $\phi 25.0$ - Top flange hole position: P-5.0/21.5 - Top flange hole offset: $\phi 18.0$ - Top flange hole offset: $\phi 12.1$			

2.2KW(3HP)	
立式 Vertical Type	
Type: GVM	

 M39	GVM-40-2200-5S~40S		
40			
			
49.1Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40	

 M40 50	GVM-50-2200-50S~100S		

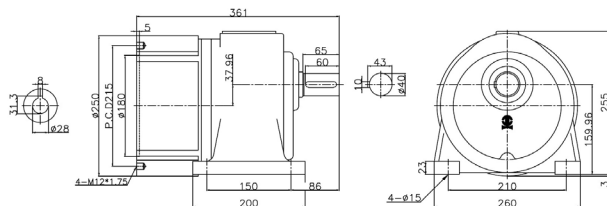


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小型齒輪減速(馬達) Small Gear Reducer (Motor)

3.7KW(5HP)臥式
Horizontal Type

Type: GHM

圖 M41
40**GHM-40-3700-5S~20S**

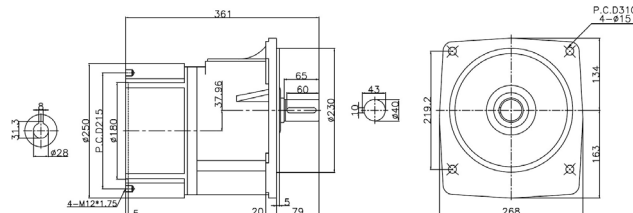
48.7Kg / 2.00L

RATIO

5,10,12.5,15,20

3.7KW(5HP)立式
Vertical Type

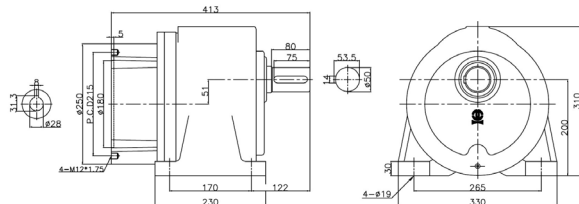
Type: GVM

圖 M43
40**GVM-40-3700-5S~20S**

49.1Kg / 2.00L

RATIO

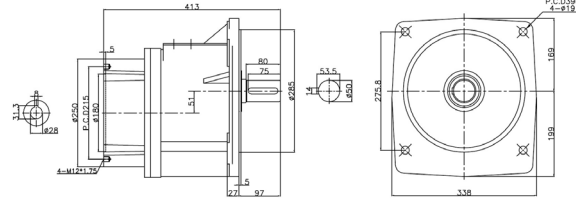
5,10,12.5,15,20

圖 M42
50**GHM-50-3700-5S~60S**

85.6Kg / 3.20L

RATIO

5,10,12.5,15,20,25,30,40,50,60

圖 M44
50**GVM-50-3700-5S~60S**

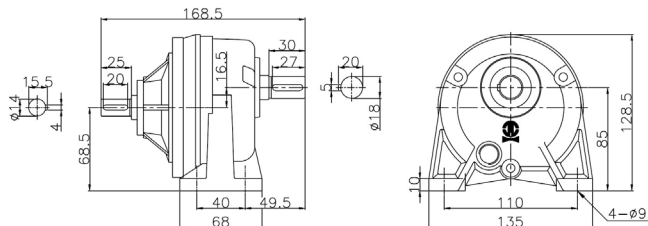
85.2Kg / 3.20L

RATIO

5,10,12.5,15,20,25,30,40,50,60

臥式立式 / 雙軸齒輪減速機 GHD/GVD Double Shaft Type With Horizontal/Vertical I Mount

0.1KW(1/8HP)	
臥式 Horizontal Type	
Type: GHD	

	GHD-18-100-5S~40S	
2.0Kg / 0.13L	RATIO	5,10,12.5,15,20,25,30,40

0.1KW(1/8HP)	
立式 Vertical Type	
Type: GVD	

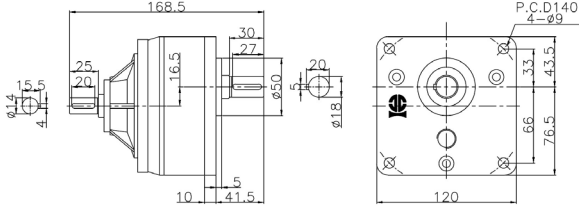
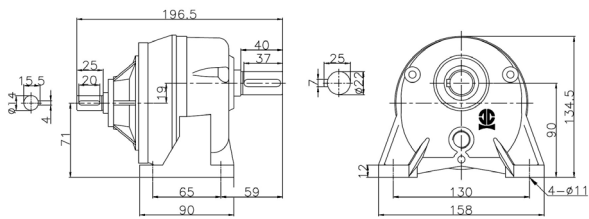
 D6	GVD-18-100-5S~40S	
18		
		
2.0Kg / 0.13L	RATIO	5,10,12.5,15,20,25,30,40

圖 D2	GHD-22-100-50S~200S	
22		
 The technical drawing consists of two views: a side view on the left and a front view on the right. The side view shows a profile of the device with a total width of 196.5. It features a central body with a diameter of 19 and a base with a diameter of 90. The height of the main body is 71, and the base has a thickness of 4. The front view shows a circular top with a diameter of 134.5. It has a central circular feature with a diameter of 130 and a base with a diameter of 158. The height of the front view is 134.5, with a base thickness of 90. The drawing also includes various mounting points and dimensions for the base and top flange.		
2.9Kg / 0.22L	RATIO	50,60,75,90,100,120,150,180,200

 D5	GVD-22-100-50S~200S	
22		

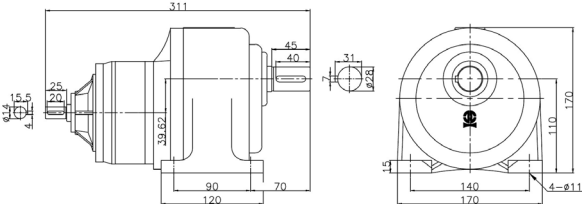
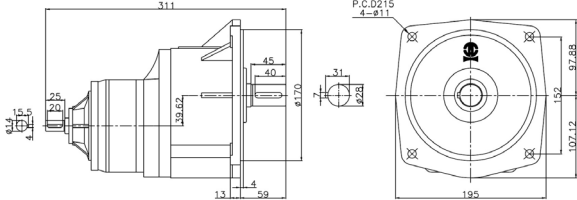
 D3	GHD-28-100-250S~1800S	
28		
		
6.9Kg / 0.53L	RATIO	250,300,...,1500,1800

圖 D3 28	GVD-28-100-250S~1800S	
 Technical drawing of the GVD-28-100-250S~1800S device, showing side and front views with dimensions. Side View Dimensions: - Top flange: 25, 20, 15.5, 4 - Mounting hole: 13 - Body diameter: 311 - Internal features: 19.62, 45, 40, 170, 4 - Base: 13, 59 Front View Dimensions: - Mounting holes: P.C.0215, 4-ø11 - Outer diameter: 195 - Inner diameter: 107.12 - Flange thickness: 12 - Flange outer diameter: 97.88 - Mounting hole detail: 31, 28		
7.8Kg / 0.53L	RATIO	250,300,⋯,1500,1800



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小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.2KW(1/4HP)

臥式
Horizontal Type

Type: GHD

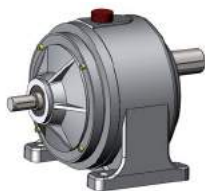
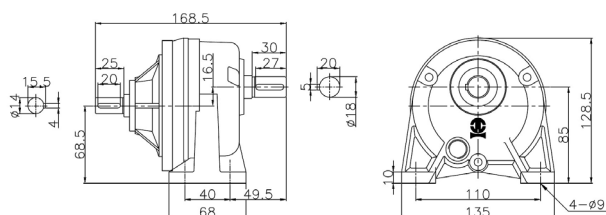


圖 D7

18

GHD-18-200-5S~30S



2.0Kg / 0.13L

RATIO

5,10,12.5,15,20,25,30

0.2KW(1/4HP)

立式
Vertical Type

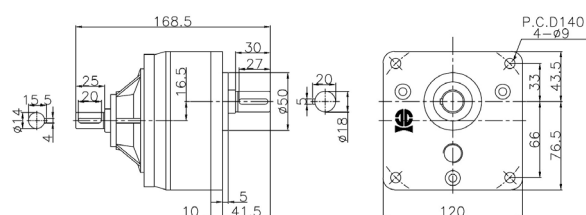
Type: GVD



圖 D11

18

GVD-18-200-5S~30S



2.0Kg / 0.13L

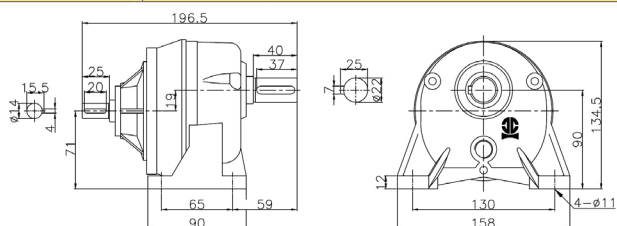
RATIO

5,10,12.5,15,20,25,30

圖 D8

22

GHD-22-200-5S~100S



2.9Kg / 0.22L

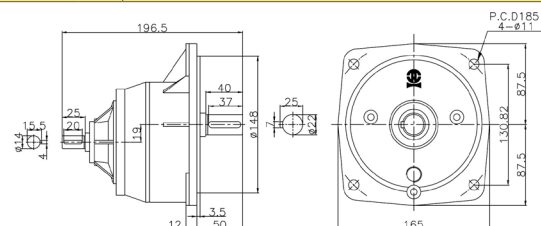
RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

圖 D12

22

GVD-22-200-5S~100S



3.3Kg / 0.22L

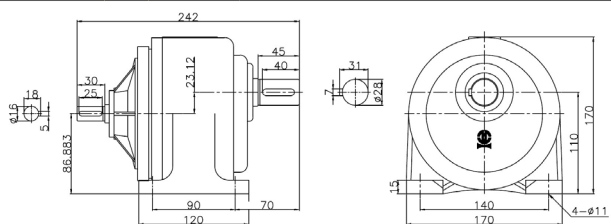
RATIO

5,10,12.5,15,20,25,30,40,50,60,75,90,100

圖 D9

28

GHD-28-200-100S~200S



5.6Kg / 0.53L

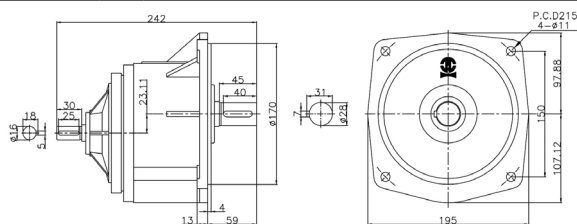
RATIO

100,120,150,180,200

圖 D13

28

GVD-28-200-100S~200S



6.4Kg / 0.53L

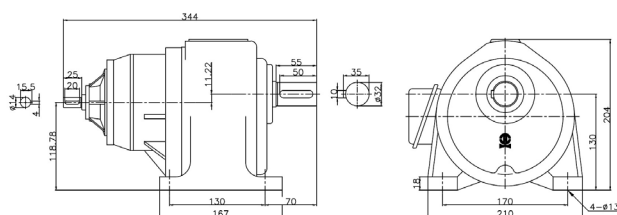
RATIO

100,120,150,180,200

圖 D10

32

GHD-32-200-250S~1800S



20.8Kg / 1.02L

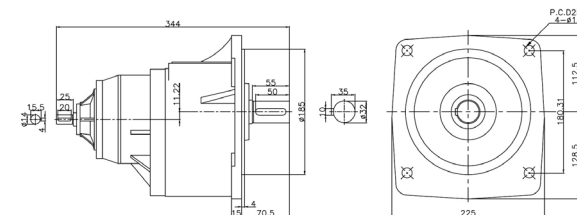
RATIO

250,300,...,1500,1800

圖 D14

32

GVD-32-200-250S~1800S



20.7Kg / 1.02L

RATIO

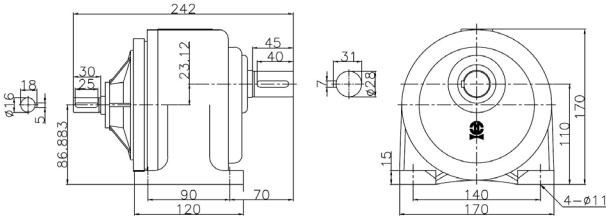
250,300,...,1500,1800

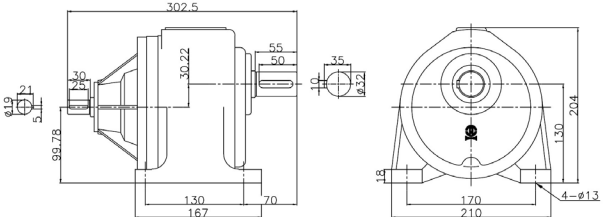
Small Gear Reducer (Motor) 小型齒輪減速(馬達)

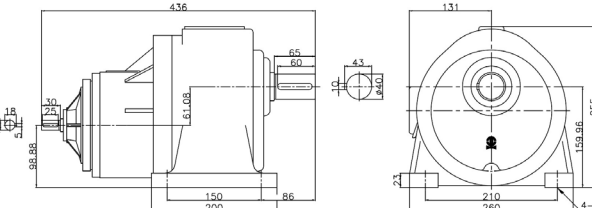
C
C01~C45

0.4KW(1/2HP)	
臥式 Horizontal Type	
Type: GHD	

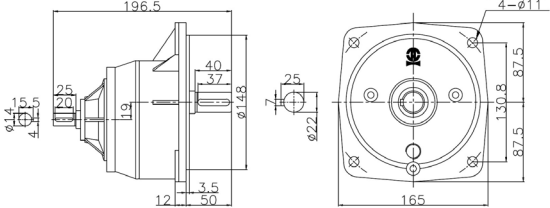
D15 22	GHD-22-400-5S~25S	
14 15 5 4 71 25 20 19 65 90 40 37 59 7 25 ø22 134.5 90 12 130 158 4-ø11 2.9Kg / 0.22L RATIO 5,10,12.5,15,20,25		

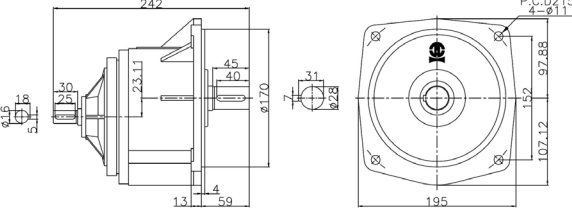
 D16 28	GHD-28-400-5S~90S	
		
5.6Kg / 0.53L	RATIO	5,10,12.5,15,20,25,30,40,50,60,75,90

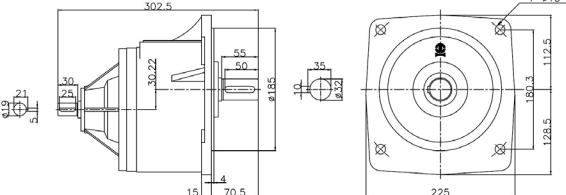
 D17 32	GHD-32-400-100S~200S	
		
21.1Kg / 0.80L	RATIO	100,120,150,180,200

 D18 40	GHD-40-400-250S~1800S	
		
40.8Kg / 2.00L	RATIO	250,300,...,1500,1800

0.4KW(1/2HP)	
立式 Vertical Type	
Type: GVD	

 D19 22	GVD-22-400-5S~25S	
		
3.3Kg / 0.22L	RATIO	5,10,12.5,15,20,25

 D20 28	GVD-28-400-5S~90S	
		
6.4Kg / 0.53L	RATIO	5,10,12.5,15,20,25,30,40,50,60,75,90

 D21	GVD-32-400-100S~200S	
32		
		
21.2Kg / 0.80L	RATIO	100,120,150,180,200

 D22 40	GVD-40-400-250S~1800S	



LI XIANG

小型齒輪減速(馬達) Small Gear Reducer (Motor)

0.75KW(1HP)

臥式
Horizontal Type

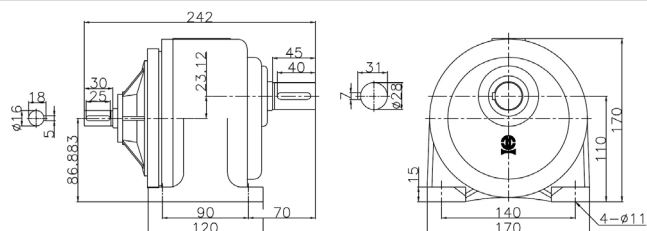
Type: GHD



圖 D23

28

GHD-28-750-5S~25S



5.6Kg / 0.53L

RATIO

5,10,12.5,15,20,25

0.75KW(1HP)

立式
Vertical Type

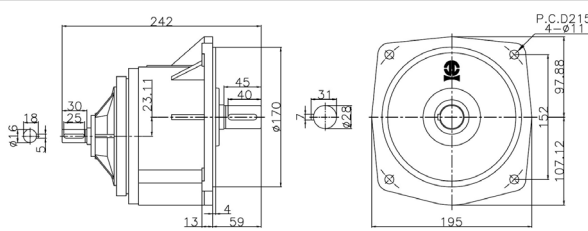
Type: GVD



圖 D27

28

GVD-28-750-5S~25S



6.4Kg / 0.53L

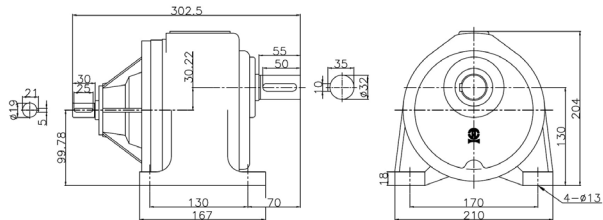
RATIO

5,10,12.5,15,20,25

圖 D24

32

GHD-32-750-30S~120S



21.1Kg / 0.80L

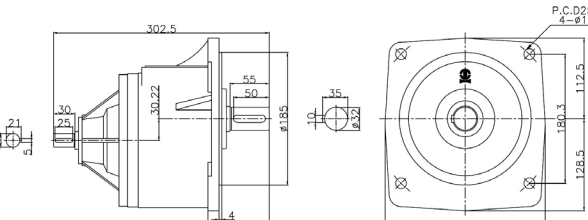
RATIO

30,40,50,60,75,90,100,120

圖 D28

32

GVD-32-750-30S~120S



21.2Kg / 0.80L

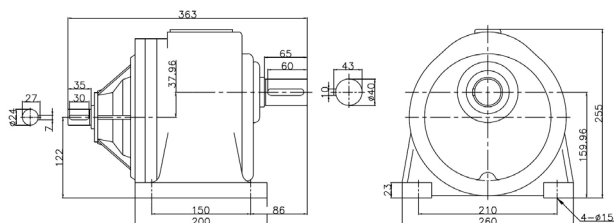
RATIO

30,40,50,60,75,90,100,120

圖 D25

40

GHD-40-750-40S~200S



40.1Kg / 2.00L

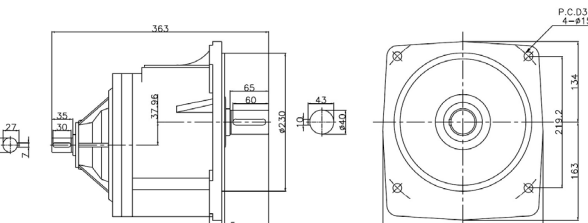
RATIO

40,50,60,75,90,100,120,150,180,200

圖 D29

40

GVD-40-750-40S~200S



40.5Kg / 2.00L

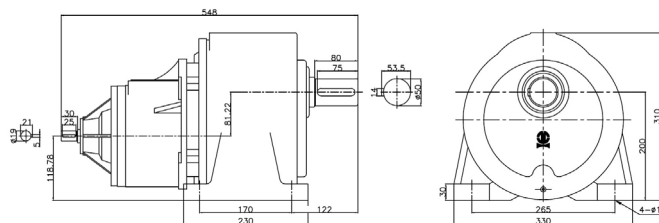
RATIO

40,50,60,75,90,100,120,150,180,200

圖 D26

50

GHD-50-750-250S~1800S



88.9Kg / 4.00L

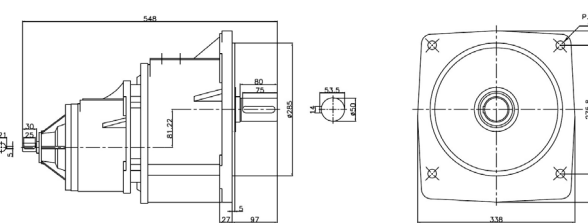
RATIO

250,300,...,1500,1800

圖 D30

50

GVD-50-750-250S~1800S



88.5Kg / 4.00L

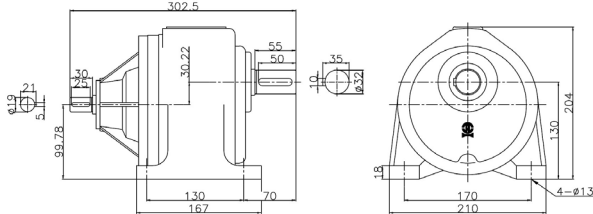
RATIO

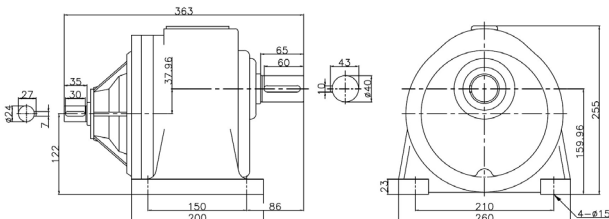
250,300,...,1500,1800

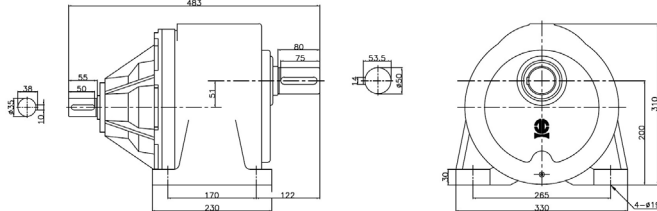
Small Gear Reducer (Motor) 小型齒輪減速(馬達)

C
C01~C45

1.5KW(2HP)	
臥式 Horizontal Type	
Type: GHD	

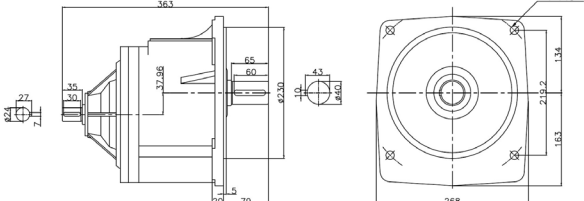
圖 D31 32	GHD-32-1500-5S~30S	
		
21.1Kg / 0.80L	RATIO	5,10,12.5,15,20,25,30

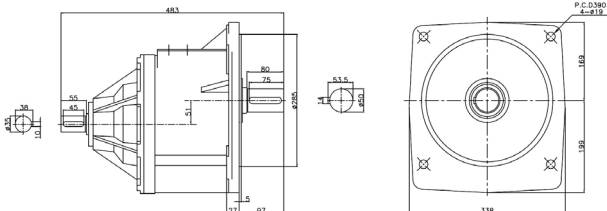
 D32	GHD-40-1500-40S~100S	
40		
		
40.1Kg / 2.00L	RATIO	40,50,60,75,90,100

 D33	GHD-50-1500-120S~200S	
50		
		
75.3Kg / 3.20L	RATIO	120,150,180,200

1.5KW(2HP)	
立式 Vertical Type	
Type: GVD	

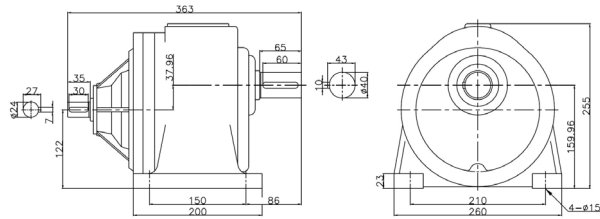
D34 32	GVD-32-1500-5S~30S	
13 21 5 30 25 30.22 55 50 15 4 70.5 302.5 185 10 35 32 112.5 180.3 128.5 225 P.C.D255 4-ϕ13		
21.2Kg / 0.80L	RATIO	5,10,12.5,15,20,25,30

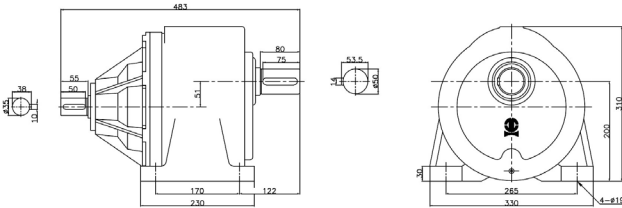
 D35 40		GVD-40-1500-40S~100S	
			
40.5Kg / 2.00L	RATIO	40,50,60,75,90,100	

 D36 50	GVD-50-1500-120S~200S	
		
74.9Kg / 3.20L	RATIO	120,150,180,200

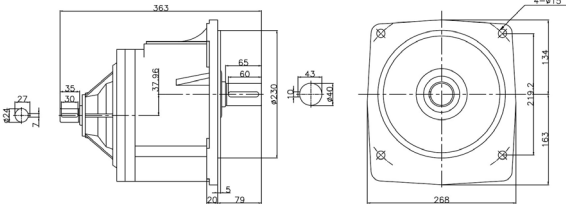
小型齒輪減速(馬達) Small Gear Reducer (Motor)

2.2KW(3HP)	
臥式 Horizontal Type	
Type: GHD	

 D37 40	GHD-40-2200-5S~40S	
		
40.1Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40

 D38 50	GHD-50-2200-50S~100S	
		
75.3Kg / 3.20L	RATIO	50,60,75,90,100

2.2KW(3HP)	
立式 Vertical Type	
Type: GVD	

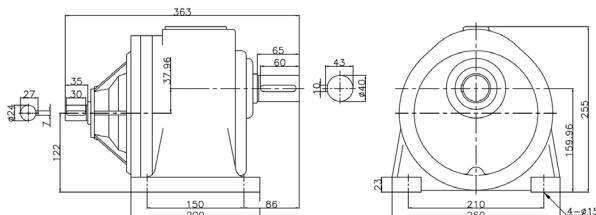
 D39 40	GVD-40-2200-5S~40S	
		
40.5Kg / 2.00L	RATIO	5,10,12.5,15,20,25,30,40

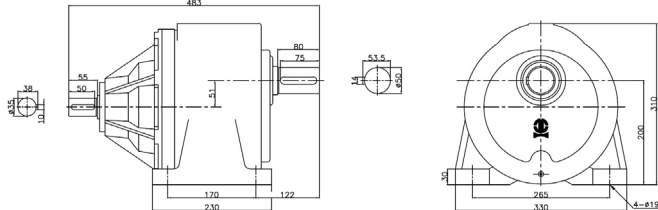
 D40 50	GVD-50-2200-50S~100S	

Small Gear Reducer (Motor) 小型齒輪減速(馬達)

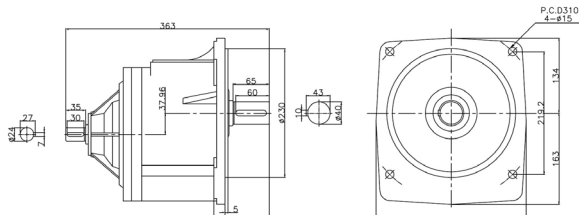
C
C01~C45

3.7KW(5HP)	
臥式 Horizontal Type	
Type: GHD	

 D41 40	GHD-40-3700-5S~20S	
		
40.1Kg / 2.00L	RATIO	5,10,12.5,15,20

 D42 50	GHD-50-3700-5S~60S	
		
75.3Kg / 3.20L	RATIO	5,10,12.5,15,20,25,30,40,50,60

3.7KW(5HP)	
立式 Vertical Type	
Type: GVD	

 D43 40	GVD-40-3700-5S~20S	
		
40.5Kg / 2.00L	RATIO	5,10,12.5,15,20

 D44 50	GVD-50-3700-5S~60S	