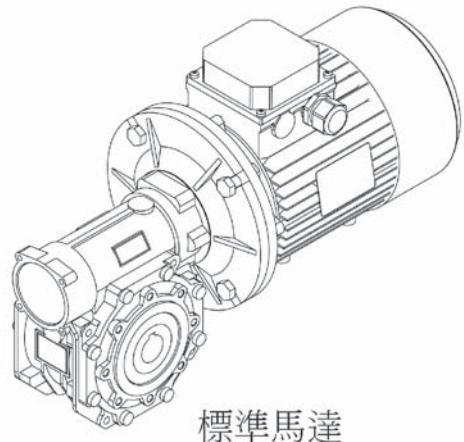
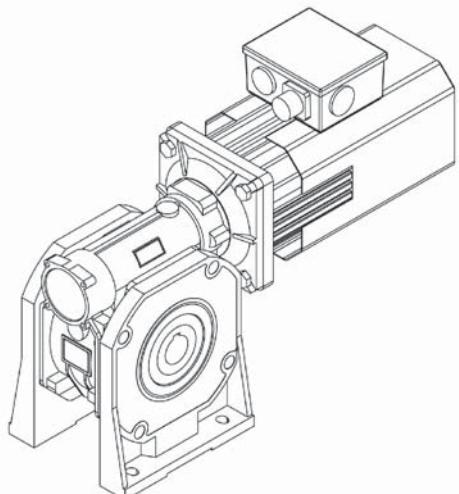
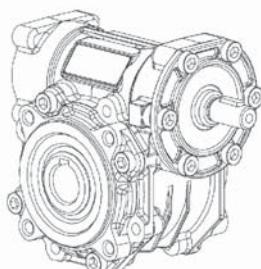




SW&SW-P 渦輪減速機

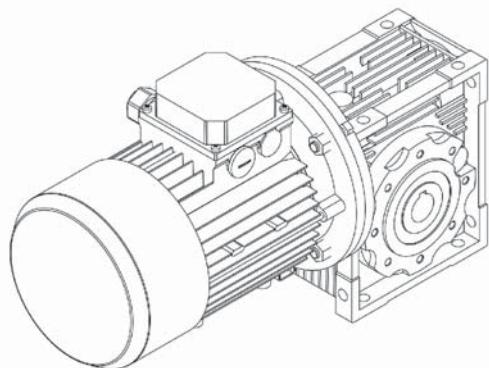
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規格型號說明.....	B1 ~ B5 頁
效率數據表.....	B6 ~ B7 頁
輸入側規格表.....	B8 頁
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安裝方式.....	B10 ~ B13 頁
馬力選擇表.....	B14 ~ B43 頁
尺寸圖.....	B44 ~ B63 頁
尺寸圖(出力軸).....	B66 頁
尺寸圖(入力軸型).....	B67 頁
附 件.....	B68 ~ B69 頁
尺寸圖(入力法蘭).....	A19 頁
附內藏式扭力限制器.....	B70 ~ B71 頁


標準馬達

伺服馬達

雙 入 軸

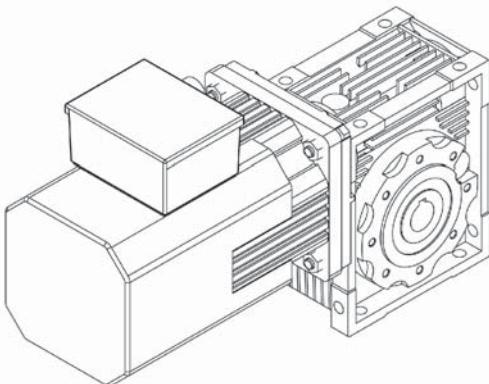


NMRV&NMRV-P 涡輪減速機

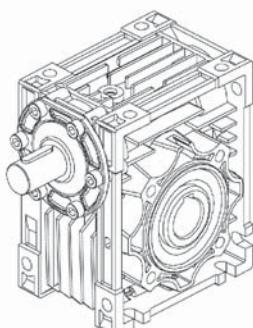
技術資料.....	A6 ~ A18 頁
規格型號說明.....	B2 ~ B5 頁
效率數據表.....	B6 ~ B7 頁
輸入側規格表.....	B8 頁
變化形式.....	B9 頁
安裝方式.....	B10 ~ B13 頁
馬力選擇表.....	B14 ~ B43 頁
尺寸圖.....	B64 ~ B65 頁
尺寸圖(出力軸).....	B66 頁
尺寸圖(入力軸型).....	B67 頁
附 件.....	B68 ~ B69 頁
尺寸圖(入力法蘭).....	A19 頁
附內藏式扭力限制器.....	B70 ~ B71 頁



標準馬達



伺服馬達



雙 入 軸

Symbols / 代號說明**摩 托 迪 克**

P = Power (kW)	馬力
M = Torque (Nm)	扭力
n = Speed (RPM)	轉速
i = Reduction ratio	減速比
F = Load (N)	負載
m = Weight (kg)	重量
f.s. = Service factor	安全係數

max = Maximum	最大
min = Minimum	最小
1 = Input shaft	入力軸
2 = Output shaft	出力軸
r = Radial	徑向
a = Axial	軸向
s = Static	靜態
d = Dynamic	動態

Surface treatment specifications / 表面處理說明**摩 托 迪 克**

Motovario 產品的表面處理技術如下：

鑄鋁合金齒輪箱體(外殼)

澆鑄材料經過以下幾項表面清理過程：

- 表面拋光去毛處理
- 精確噴砂處理
- 塗油漆處理
- 洗滌及鈍化處理

灰鑄鐵齒輪箱體(外殼)

- 鑄鐵原料全部塗油漆處理

注意：NMRV025型減速機從不塗油漆處理。

Motovario 的減速機如果必要塗油漆處理時，其表面處理技術如下：

說明：

- 藍色環氧聚脂桔紋漆 RAL 5010.

使用產品：

- 使用熱硬化的聚脂樹脂粉末，再塗上環氧樹脂表漆。

機械性能

- 產品測試是在去脂 Unichim 白色錫板上(膜厚:60μm)根據 ISO2409 的粘附力標準，ISO152 的 Erichsen 圖說，Erichsen 圖說，DIN53158 的反向振盪標準，DIN53151，的磨刮標準以及 ASTM D3363/74 的硬度要求來進行的。

抗熱能力

- 24 小時連續在 150°C。

耐腐蝕能力

根據 ASTM B 117/97 要求能承受在鹽霧中逗留 100 到 500 小時，視不同底漆的規格而定。

性能

已按 DIN 3990, ISO 6336, AGMA 2101, ISO10300, DIN3991, ISO 281, DIN 743 對載荷能力進行驗證。

動態效率 η_d ：

工作效率是指輸出功率 P2 和齒輪減速機的輸入功率 P1 之間的比率：

$$\eta_d = P2/P1$$

H/HA 系列同軸螺旋齒輪減速機的平均值等於：

$$H..3 \text{ 級} = 0,97$$

$$H..2 \text{ 級} = 0,96$$

$$H..3 \text{ 級} = 0,94$$

B/BA 系列直角螺旋傘型齒輪減速機的平均值等於：

$$B..3 \text{ 級} = 0,9$$

$$BA..2 \text{ 級} = 0,95$$

$$BA..3 \text{ 級} = 0,9$$

S 系列平行軸螺旋齒輪減速機的平均值等於：

$$S..2 \text{ 級} = 0,96$$

$$S..3 \text{ 級} = 0,94$$



Service factor / 使用係數 (負載係數)

摩 托 迪 克

The service factor (f.s.) depends on the operating conditions the reduction unit is subjected to.

The parameters that need to be taken into consideration to select the most adequate service factor correctly comprise:

- type of load of the operated machine : A - B - C
- length of daily operating time: hours/day (Δ)
- start-up frequency: starts/hour (*)

TYPE OF LOAD:	A - uniform	$f_a \leq 0.3$
	B - moderate shocks	$f_a \leq 3$
	C - heavy shocks	$f_a \leq 10$

$$f_a = J_e/J_m$$

- f_a factor of inertia
 - J_e (kgm^2) moment of reduced external inertia at the drive-shaft
 - J_m (kgm^2) moment of inertia of motor
- If $f_a > 10$ call our Technical Service.

使用係數(負載係數) (service factor) (簡稱 f.s.)

視減速機的操作條件而定。

正確選擇最適當的使用係數需考慮的參數包括:

進行正確的組合，必須考慮的參數如下：

- 運轉機器的負載類型: A - B - C
- 每天運轉時間的長短：小時/日 (Δ)
- 啓動頻率: 啓動次數／小時(*)

負載類型:

- A - 穩定 $f_a \leq 0.3$
- B - 中等衝擊 $f_a \leq 3$
- C - 高等衝擊 $f_a \leq 10$

$$f_a = J_e/J_m$$

- f_a 惯性因數
- J_e (kgm^2) 傳動軸上的減速外部惰性力距
- J_m (kgm^2) 馬達的惰性力距 如果
- $f_a > 10$ 時，請與本公司的技術服務人員聯繫。

A -Screw feeders for light materials, fans, assembly lines, conveyor belts for light materials, small mixers, lifts, cleaning machines, fillers, control machines.

B -Winding devices, woodworking machine feeders, goods lifts, balancers, threading machines, medium mixers, conveyor belts for heavy materials, winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.

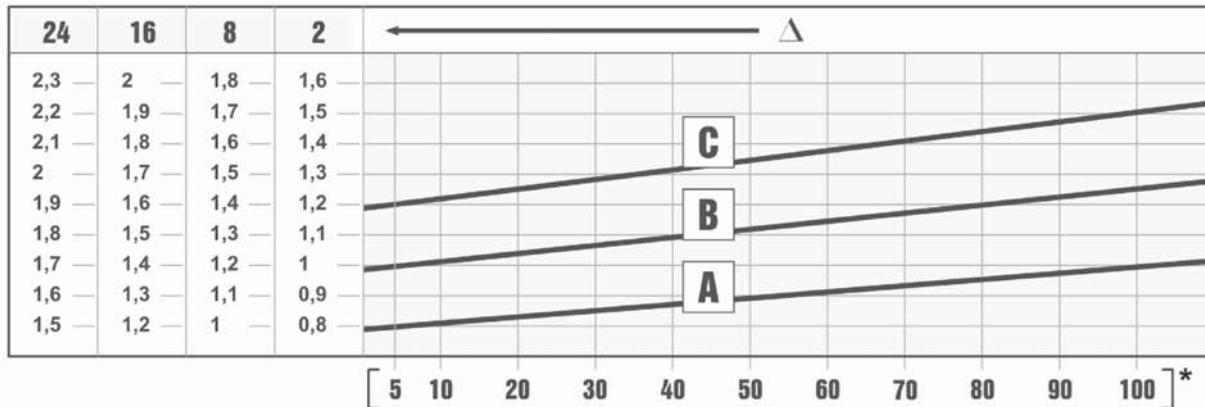
C -Mixers for heavy materials, shears, presses, centrifuges, rotating supports, winches and lifts for heavy materials, grinding lathes, stone mills, bucket elevators, drilling machines, hammer mills, cam presses, folding machines, turntables, tumbling barrels, vibrators, shredders.

負載類型 A - 輕質材料螺旋給料機, 風扇, 組裝生產線, 輕質材料輸送機, 小型攪拌器, 升降機, 清洗機, 充填設備, 控制器等

負載類型 B- 捲繞裝置, 木工機械, 貨物升降機, 平衡器, 螺紋機, 介質攪拌機, 重型材料皮帶輸送機, 絞盤, 移動門, 刮板輸送機, 包裝機, 混凝土攪拌機, 起重機, 銑床, 卷板機, 齒輪泵等。

負載類型 C- 重型材料攪拌機, 剪切機, 壓力機, 離心機, 旋轉支撐, 重型材料, 絞盤和升降機, 磨床, 石材坊, 升降機, 鑽孔機, 錐式粉碎機, 凸輪壓力機, 折疊機, 運輸帶, 翻斗車, 振動器, 碎紙機等。

f.s.



Critical applications / 特殊應用
摩 托 迪 克

The performance given in the catalogue correspond to mounting position B3 or similar, ie. when the first stage is not entirely immersed in oil. For other mounting positions and/or particular input speeds, refer to the tables that highlight different critical situations for each size of reduction unit.

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

- As a speed increasing.
- Use in services that could be hazardous for people if the reduction unit fails.
- Applications with especially high inertia.
- Use as a lifting winch.
- Applications with high dynamic strain on the case of the reduction unit.

本目錄所說明之性能係針對安裝位置 B3 或類似位置而言，換句話說，在初期運轉時並未完全浸入油。有關其他的安裝位置亦或特殊輸入速度，請參考各種尺寸的減速機於各種不同特殊用途的圖表說明。

在下述用途時，也請考慮與本公司的技術服務部門連絡，以審慎評估：

- 速度增加時；
- 萬一減速機操作故障時有可能傷害人員之危險作業環境；
- 特別高度惰性之用途；
- 充當絞車使用時；
- 減速機在高度動態應變用途；

H	A31	A30	A40	A50	A60						
V5 - V1: $1500 < n_1 < 3000$	-	-	-	-	-						
$n_1 > 3000$	B	B	B	B	B						
V3 - V6	B	B	B	B	B						
H	030	040	050	060	080						
V5 - V1: $1500 < n_1 < 3000$	-	-	-	-	-						
$n_1 > 3000$	B	B	B	B	B						
V3 - V6	B	B	B	B	B						
B	A40		A50		A70						
$2000 < n_1 < 3000$	-	-	-	-	-						
V6	B	B	B	B	B						
$n_1 > 3000$	B	B	B	B	B						
…L : B6 - B7	B	B	B	B	B						
B	060	080	100	125	140						
$2000 < n_1 < 3000$	-	-	-	B	B						
V6	B	B	B	B	B						
$n_1 > 3000$	B	B	B	A	A						
…L : B6 - B7	B	B	B	B	B						
S	050		060	080	100	125					
$2000 < n_1 < 3000$	-	-	-	-	-	-					
V6	B	B	B	B	B	B					
$n_1 > 3000$	B	B	B	B	B	B					
…L : V5 - V6	B	B	B	B	B	B					
SW / NMRV	025	030	040	050	063	075	090	105	110	130	150
V5: $1500 < n_1 < 3000$	-	-	-	-	-	B	B	B	B	B	B
$n_1 > 3000$	B	B	B	B	B	A	A	A	A	A	A
V6	B	B	B	B	B	B	B	B	B	B	B

A- Application not recommended / 建議不使用。

B- Check the application and/or call our technical service / 檢查使用對象或與本公司技術服務部聯絡。



Installation / 安 裝

摩 托 迪 克

To install the reduction unit it is necessary to note the following recommendations:

- The mounting on the machine must be stable to avoid any vibration.
- Check the correct direction of rotation of the reduction unit output shaft before fitting the unit to the machine.
- In the case of particularly lengthy periods of storage (4/6 months), if the oil seal is not immersed in the lubricant inside the unit, it is recommended to change it since the rubber could stick to the shaft or may even have lost the elasticity it needs to function properly.
- For a shaft mounting, for reduction units with a hollow output shaft, use the torque arms Motovario can supply. If this is not possible, make sure that the constraint is axially free and with such play as to ensure free movement for the reduction unit.
- Whenever possible, protect the reduction unit against solar radiation and bad weather.
- Ensure the motor cools correctly by assuring good passage of air from the fan side.
- In the case of ambient temperatures < -5°C or > +40°C call the Technical Service.

安裝減速機時必須注意以下幾點：

- 必須穩定地安裝在機器上，避免有任何鬆動或振動。
- 在減速機固定於機器上之前，檢查減速機輸出軸的正確旋轉方向。
- 在長期的儲存情況下（4/6 個月），一旦油封沒有浸沒在減速機的潤滑油中，橡膠可能會粘住主軸甚至失去彈性，由於適當的彈性是油封必須的工作條件，所以推薦更換油封。
- 安裝傳動軸時，具空心輸出軸之減速機需使用 Motovario 能夠供應的扭力臂。如果不可能，需確認強迫軸向能夠自由運轉以保證減速機能夠自由運轉。
- 盡可能避免減速機在陽光下直接照射或暴露於惡劣氣候下。
- 確保馬達風扇邊的空氣有良好的通風，以便有足夠的冷卻。

- The various parts (pulleys, gear wheels, couplings, shafts, etc.) must be mounted on the solid or hollow shafts using special threaded holes or other systems that anyhow ensure correct operation without risking damage to the bearings or external parts of the units. Lubricate the surfaces in contact to avoid seizure or oxidation.
- Painting must definitely not go over rubber parts and the holes on the breather plugs, if any.
- For units equipped with oil plugs, replace the closed plug used for shipping with the special breather plug.
- Check the correct level of the lubricant through the indicator, if there is one.
- Starting must take place gradually, without immediately applying the maximum load.
- When there are parts, objects or materials under the motor drive that can be damaged by even limited spillage of oil, special protection should be fitted.

- 當使用時的絕對溫度< -5°C 或>40°C 時，先與我們技術服務人員聯繫。
- 各種零件（滑輪、齒輪、聯軸器、軸等）必須安裝在實心或空心軸上，應該使用專用的螺紋孔或其他工具以確保正確安裝而不會損壞軸承或減速機外端的所有零件，並以潤滑油來潤滑接觸表面避免卡死或氧化。
- 橡膠零件以及透氣孔上不能沾有油漆。
- 當遇見配有油塞的減速機時，把運輸專用的塞子換掉。再裝上排氣塞。
- 通過視窗檢查潤滑油油位是否足夠。
- 使用新減速機時，應該逐漸載入，不要立即提升到最大的負載。
- 如有任何在減速機旁的零件、物體或材料會因漏出的油而遭受損壞時，應安裝特殊的保護或遮擋。

Motor mounting with PAM flange B5 / 馬達與 PAM 法蘭 B5 之連接

摩 托 迪 克

When the unit is supplied without motor, it is necessary to follow these Recommendation to ensure the correct assembly of the electric motor. Assembly of flange mounting motors to the gear unit with the PAM flange uses a coupling.

Check that the tolerances for the motor shaft and flange correspond to the standard.

Carefully clean the shaft, spigot and surfaces of the flange removing traces of paint and dirt, and confirm the key is fitted correctly.

Fit the half coupling/sleeve to the motor shaft

當只有購買減速機時，必須按照以下建議與已有的馬達來組合，以確保正常的使用。

當法蘭式馬達跟減速機的 PAM 法蘭配套安裝時，需要使用連軸器。

參照相關標準來檢查馬達軸心和法蘭在安裝時是否有過大的誤差。

仔細清潔軸、連軸器和法蘭表面，擦除污垢和痕跡。

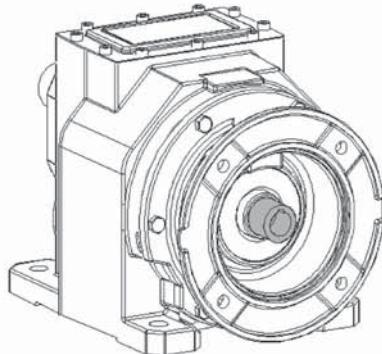
(see picture) taking care to ensure the motor shaft and bearings are not damaged by avoiding excessive force and where necessary using assembly equipment. Place the couplings elastic element onto the motor half coupling and position the motor up to the gear unit ensuring the coupling element is aligned with the driven half coupling. Complete the assembly using the fixing bolts. Key-ways with tightened tolerances.

按圖所示小心安裝軸（參照下圖），保證軸和軸承的嚮合，避免力量過大而導致損壞·必要時使用專用工具來進行。

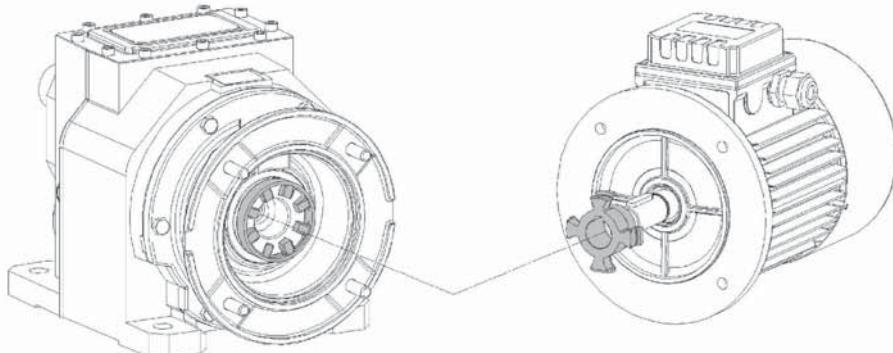
把連軸器中的橡皮元件先放進馬達軸上的半個連接器中，再把馬達放到減速機上以確保連軸器跟減速機上另一半的連接器處在同一中心線上。

把固定螺栓鎖緊，根據誤差參數同時把軸固定好。

H / B / S / SW / NMRV 標準套筒式聯軸器型



PH / PB / PS / SW-P063-110 / NMRV-P063-110 撓性聯軸器型



Note: the motor coupling with the flexible joint is available only for the product ranges H-B-S series
馬達使用撓性聯軸器的連結方式只提供給 H.B.S 系列及 SW-P063~SW-P110 系列及 NMRV-P063 ~NMRV-P110 等系列。



Overhung load / 懸臂荷載

摩 托 迪 克

The radial load on the shaft is calculated with the following formula:

$$Fr_e = \frac{2000 \cdot M \cdot f_z}{D} \leq Fr_1 \text{ or } Fr_2$$

$f_z =$	1,1	gear pinion
	1,4	chain wheel
	1,7	v-pulley
	2,5	flat pulley

Fr_e (N)

Resulting radial load

M (Nm)

Torque on the shaft

D (mm)

Diameter of the transmission member mounted on the shaft

Fr (N)

Value of the maximum admitted radial load Fr₁-Fr₂ (see relative tables)

When the resulting radial load is not applied on the centre line of the shaft, it is necessary to adjust the admissible radial load Fr_{1,2} with the following formula:

$$Fr_x = \frac{Fr_{1,2} \cdot a}{(b + x)}$$

a, b = values given in the tables on page 18,19

x = distance from the point of application of the load to the shaft shoulder

通過下列公式可計算主軸上的徑向負荷承受重量：

$$Fr_e = \frac{2000 * M * f_z}{D} \leq Fr_1 - Fr_2$$

Fr_e = 軸所承受的徑向負荷 (N)

M= 扭矩 (Nm)

D= 在主軸上的傳動元件之直徑 (mm)

Fr= 最大徑向承受力 Fr₁ - Fr₂(參考有關圖表)(N)

$f_z = 1,1$	小齒輪	$1,4$	鏈輪
1,7	三角皮帶 v-滑輪	2,5	平直滑輪

當軸的最終徑向負荷不在同一中心線時，
Fr₁- Fr₂ 徑向負荷就需要用以下公式調整：

$$Fr_x = \frac{Fr_{1-2} \cdot a}{(b + x)}$$

a, b = 有關參數表見第 18,19 頁

x = 施加負荷點至軸肩之距離

Radial loads - Technical descriptions / 徑向負荷 – 技術說明

摩 托 迪 克

The value of the admissible radial load (N) is given in the tables relating to the performance of the reduction unit at issue. It is related to the load applied on the centre line of the shaft and in the most unfavourable conditions of angle of application and direction of rotation.

The maximum admissible axial loads are 1/5 of the value of the given radial load when they are applied in combination with the radial load.

The tables relating to the output shafts give the maximum admissible value.

軸所允許負載的負荷 (N) 可從相關的圖表中尋找或從已推出的減速機相關資料中尋找。

它包括了當負荷與主軸在同一中心線的計算，也有不在同心線的情況下的好幾種可能角度和轉向。

當徑向與軸向負載同時存在時，最大的允許軸向負載值只是徑向負載值的五分之一。圖表中所表示的是輸出軸的最大承載重量。

This value must never be exceeded since it relates to the strength of the case.

Particular conditions of radial load higher than the limits of the catalogue may occur. In this case, call our Technical Service and provide details on the application: direction of the load, direction of rotation of the shaft, type of service.

In case of double extension shafts with radial load applied on both ends, the max. admissible radial loads must be defined according to the specific running conditions, in this case call our Technical Service.

在日常操作中，絕對不可以超過圖表的數值，因為關係到外殼的承受極限。在特殊情況下，如軸的負載重量必須要超過本目錄中的數值極限時，請與本公司技術人員聯繫並查閱使用說明書中有關的負載指示、軸的旋轉方向及應用種類等資料。如果是在雙延伸軸在兩端皆施加徑向負荷情形，其最大允許徑向負荷需依據特殊的操作條件來定義，在此情形，請與本公司技術人員聯繫。

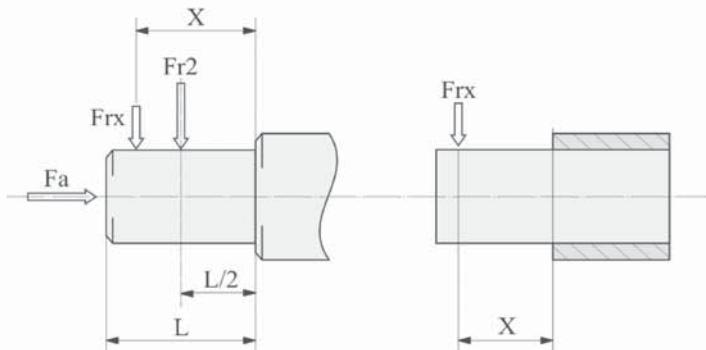
Radial loads / (N) - Output Shaft / 出力軸徑向負荷
摩 托 迪 克

When the radial load is not on the centre line of the shaft, it is necessary to adjust the admissible radial load Fr2 with the following formula:

當軸的最終徑向負荷不在同一中心線時Fr2，
徑向負荷就需要用以下公式調整：

$$\text{Fr2 : } \text{Fr}_{\text{rx}} = \frac{\text{Fr}_2 \cdot a}{(b + x)}$$

X=施加負荷點至軸肩之距離



H	041	051	061	081	101	121					
a	89	98	115	151	210	232					
b	79	73	85	111	155	177					
Fr2 max(**)	1000	2500	3700	4000	5000	6000					
Fa max (*)	5500	6500	7000	8500	11500	13500					
H	A31	A41	A51	A61	A32 A33	A42 A43	A52 A53	A62 A63			
a	78,5	81	83	103	105	115	135	155			
b	58,5	61	58	73	85	90	105	115			
Fr2 max(**)	1100	1100	3000	4500	2000	4300	6000	8000			
H	032 033	042 043	052 053	062 063	082 083	102 103	122 123	142 143			
a	120	138	169	195	238	281	331	367			
b	96	108	134	155	188	221	261	282			
Fr2 max(**)	5500	6600	8000	12000	18000	22000	30000	55000			
B	A42			A52 A53		A72 A73					
a	105			119		145					
b	85			94		116					
D-S-P (Fr2 max**)	-			-		10000					
C (Fr2 max**)	4000			4000		5500					
B	063	083	103	123	143	153	163				
a	129	190	225	262	306	348	468				
b	100	150	175	202	236	278	363				
D-S-P (Fr2 max**)	12000	18000	22000	30000	40000	65000	80000				
C (Fr2 max**)	8000	12000	15000	20000	40000	65000	65000				
S	052 053		062 063		082 083		102 103		122 123		
a	125		145		190		225		265		
b	96		116		150		175		202		
D-S-P (Fr2 max**)	6000		10000		18000		22000		30000		
C (Fr2 max**)	6000		4000		7200		9000		11200		
SW/NMRV/NMRV-P	025	030	040	050	063	075	090	110	130	150	
a	50	65	84	101	120	131	162	176	188	215	
b	38	50	64	76	95	101	122	136	148	174	
Fr2 max(**)	1350	1830	3490	4840	6270	7380	8180	12000	13500	18000	
SW/NMRV	J *1E-4 [kg*m²]			SW/NMRV-P			J *1E-4 [kg*m²]			H	J *1E-4 [kg*m²]
025	0,03			063			2,2			A31	1,0
030	0,10			075			4,4				
040	0,3			090			8,2				
050	0,8			110			19,9				
130	22,5										
150	52,9										

(**)Fr2) Max. admissible value of the reducer; verify max. admissible value on performances tables.

減速機的最大承載重量請核對馬力選擇表。

(*) Maximum axial load values admissible in only one direction with the use of a thrust bearing (on request).
最大軸向的承載重量在同一方向時可依要求使用推力軸承。



Radial loads / (N) - Input Shaft / 入力軸徑向負荷

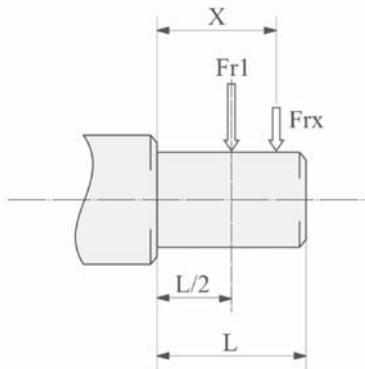
摩 托 迪 克

When the radial load is not on the centre line of the shaft, it is necessary to adjust the admissible radial load Fr1 with the following formula:

當產生的負荷沒有施加在軸的中心線上時，
必須用以下的公式調整許可的徑向負荷值

$$Fr1 : Frx = \frac{Fr_1 \cdot a}{(b + x)}$$

X=施加負荷點至軸肩之距離



IH	041	051	061	081	101	121
a	105	105	105	137	175	175
b	80	80	80	108	135	135
Fr1 max(**)	1320	1800	2200	2500	3000	3000

IH	A32	A33	A41	A42	A43	A51	A53	A63	A52	A61	A62
a				84						89	
b				64						69	
Fr1 max(**)				480						800	

IH	032	033	042	043	052	053	062	063	082	083	102	103	122	123	142	143
a	105	105	105	105	105	105	137	137	137	137	175	175	175	225		
b	80	80	80	80	80	80	108	108	108	108	135	135	135	170		
Fr1 max(**)	2200	2200	2500	2500	3600	3600	3600	3600	3600	3600	7200	7200	7200	15000		

IB	A42 A52 A53 A73				A72			
a		84				89		
b		64				69		
Fr1 max(**)		500				830		

IB	063	083	103	123	143	153	163
a	105	137	137	175	175	225	221
b	80	108	108	135	135	170	166
Fr1 max(**)	2200	2500	3200	4200	7000	10000	12000

IS	052	053	062	063	082	083	102	103	122	123
a	105		105		137		137		175	
b	80		80		108		108		135	
Fr1 max(**)	1500		2500		3600		3600		7200	

ISW/NRV/NRV-P	030	040	050	063	075	090	110	130	150	IHW040	090	110
a	86	106	129	159	192	227	266	314	350	a	71	
b	76	94,5	114	139	167	202	236	274	310	b	51	
Fr1 max(**)	210	350	490	700	980	1270	1700	2100	2800	Fr1 max(**)	400	500

(**)Fr1 Max. admissible value of the reducer; verify max. admissible value on performances tables.
減速機的最大承載重量請核對馬力選擇表。

Lubrication 潤滑油

In cases of ambient temperatures not envisaged in the table, call our Technical Service. In the case of temperatures under -30°C or over 60°C it is necessary to use oil seals with special properties.

For operating ranges with temperatures under 0°C it is necessary to consider the following:

- 1 The motors need to be suitable for operation at the envisaged ambient temperature.
- 2 The power of the electric motor needs to be adequate for exceeding the higher starting torques required.
- 3 In case of cast-iron gear reducers, pay attention to impact loads since cast iron may have problems of fragility at temperatures under -15°C.
- 4 During the early stages of service, problems 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.

The oil needs to be changed after approximately 10,000 hours/2 years of operations. This period depends on the type of service and the environment where the gear reducer works. For units supplied without oil plugs, lubrication is permanent and so they need no servicing.

如在圖表中不能查到對應的溫度，請與本公司技術服務人員聯繫。

如果溫度低於-30°C或高於60°C時，必須使用特殊油封。

如果在注油時的溫度低於0°C時，必須注意以下幾點：

1. (馬達)的選型必須符合周圍環境與工作條件。
2. (馬達)的功率選擇必須考慮到在寒冷天氣時較大的起動扭矩。
3. 鑄鐵外殼的減速機要避免忽然承受過重的衝擊負載，因為在攝氏-15°C以下時鑄鐵的物理性能可能會變得較脆。
4. 在使用新的電動機(馬達)時，可能會出現潤滑油的問題，因為新的潤滑油的粘度較高，因此推薦先讓減速箱在空載情況下運轉幾分鐘才開始載入。

潤滑油在使用約10,000時後必須更換，也要視減速機的具體工作環境而定。

對於沒有注油孔的減速箱來說，是永遠不需要更換潤滑油的。

Lubrication 推薦潤滑油

	T°C-ISO VG/SAE...	ENI	AGIP	SHELL	ESSO	MOBIL	CASTROL	BP
H A30 ÷ A60	(-5) ÷ (+40) ISO VG 220	BLASIA 220	-	OMALA OIL 220	SPARTAN EP 220	MOBILGEAR 600 XP 220	ALPHA MAX 220	ENERGOL GR-XP 220
H 030 ÷ 140								
B 060 ÷ 160	(-15) ÷ (+25) ISO VG 150	BLASIA 150	-	OMALA OIL 150	SPARTAN EP 150	MOBILGEAR 600 XP 150	ALPHA MAX 150	ENERGOL GR-XP 150
B A40 ÷ A70	(-5) ÷ (+40) SAE 85W-140	ROTRA MP (85W-140)	-	SPIRAX ST (80W-140)	-	-	-	-
S 050 ÷ 125	(-5) ÷ (+40) ISO VG 220	BLASIA 220	-	OMALA OIL 220	SPARTAN EP 220	MOBILGEAR 630	ALPHA MAX 220	ENERGOL GR-XP 220
	(-15) ÷ (+25) ISO VG 150	BLASIA 150	-	OMALA OIL 150	SPARTAN EP 150	MOBILGEAR 629	ALPHA MAX 150	ENERGOL GR-XP 150
SW 030 ÷ 105	(-25) ÷ (+50) ISO VG 320	-	TELUM V р 320	TIVELA OIL SC 320	S 220	GLYGOYLE 30	ALPHASYN PG 320	ENERGOL SG-XP 320
SW 110 ÷ 150	(-5) ÷ (+40) ISO VG 460	-	BLASIA 460	OMALA OIL 460	SPARTAN EP 460	MOBILGEAR 634	ALPHA MAX 460	ENERGOL GR-XP 460
	(-15) ÷ (+25) ISO VG 220	-	BLASIA 220	OMALA OIL 220	SPARTAN EP 220	MOBILGEAR 630	ALPHA MAX 220	ENERGOL GR-XP 220
NMRV 025 ÷ 150	(-25) ÷ (+50) ISO VG 320	TELUM V р 320	-	TIVELA OIL SC 320	-	SHC 632	ALPHASYN PG 320	ENERGOL SG-XP 320
NMRV-P 063 ÷ 110								
HW 030 ÷ 040								
HA 31	(-5) ÷ (+40) ISO VG 220	BLASIA 220	-	OMALA OIL 220	SPARTAN EP 220	MOBILGEAR 600 XP 220	ALPHA MAX 220	ENERGOL GR-XP 220

- Specifications of lubricants recommended by Motovario S.p.A.

- 表內為MOTOVARIO 推薦使用的潤滑油。

- Lubricant quantities are only indicative. For correct filling always refer to the sight glass or the dipstick, when this is supplied.

- 潤滑油的數量只表示加油時填充至視油鏡中心或油標尺位置。潤滑油的數量,請參考下一頁。

Lubrication潤滑油 -SW/NMRV/NMRV-P渦輪減速機

Lubricant quantities are only indicative. For correct filling always refer to the sight glass or the dipstick, when this is supplied. Any oil level differences can be caused by constructive tolerances but also on the mounting position or the assembly scheme of the customer. Therefore it is very important for the customer to check oil level and if necessary to add the necessary quantity.

The gear reducers size 025 - 030 - 040 - 050 - 063 - 075 - 090 - 110 - 130 - 150 are supplied complete with lubricant for life, synthetic oil, ENI TELIUM VSF. They can be mounted in any position envisaged in the catalogue, except for NMRV-P090 - 150 and NRV-P075 - 150 for which you must specify the mounting position.

For sizes 090 and 150 it is necessary to specify the position, otherwise the gear reducers are supplied with the quantity of oil relating to pos. B3.

Only reduction units 130 and 150 are fitted with breather, level and oil drainage plugs. It is necessary, after installation, to replace the closed plug used for transportation with the breather plug supplied with the unit.

The pre-stage helical modules are supplied complete with life-long lubricant, synthetic oil, ENI TELIUM VSF. Lubrication is separated from that of the worm gear reducers.

潤滑油計量僅供參考。若要正確注油，請務必參考觀察孔中心，或提供的量油尺。

結構公差、安裝位置或客戶組裝方式，均可能導致油位差。因此，客戶務必檢查油位；必要時，可以增加油量。

減速機(尺寸 025 - 030 - 040 - 050 - 063 - 075 - 090 - 110 - 130 - 150)均已提供 ENI TELIUM VSF

永久性合成潤滑油，因此可以安裝在產品目錄中所示的任何位置。唯一的例外是NMRV-P090 - 150, NRV-P075 - 150 您必須指定安裝位置。

對於尺寸090 - 150,必須預先在下訂單時說明安裝位置。否則出廠時只會按照B3 位置去提供相應數量的潤滑油。

僅型號為130 和150 設有排氣裝置，油的液位顯示和排油孔。在安裝完畢後，必須拿掉活塞及裝上排氣裝置。

PC和HW前置減速機已經預先注入了潤滑油 ENI TELIUM VSF, 因此, 可以根據說明書的位置隨意安裝。它的潤滑油系統是獨立的而且與渦輪減速機分離。

	NMRV	SW/NMRV				SW/NMRV-P				SW/NMRV		
		025	030	040	050	063	075	090	105	110	130	150
B3										1.6	4.5	7
B8										2.2	3.3	5.1
B6-B7	0.02	0.04	0.08	0.15	0.33	0.55	1	1.6		2.5	3.5	5.4
V5										3	4.5	7
V6										2.2	3.3	5.1

PC	063	071	080	090	HA31
B3					
B8					
B6-B7	0.05	0.07	0.15	0.16	0.06
V5					
V6					

HW	030		040	
	063	075	090	110
B3	0.06	0.09	0.11	0.12

-Quantity of oil in litres ~

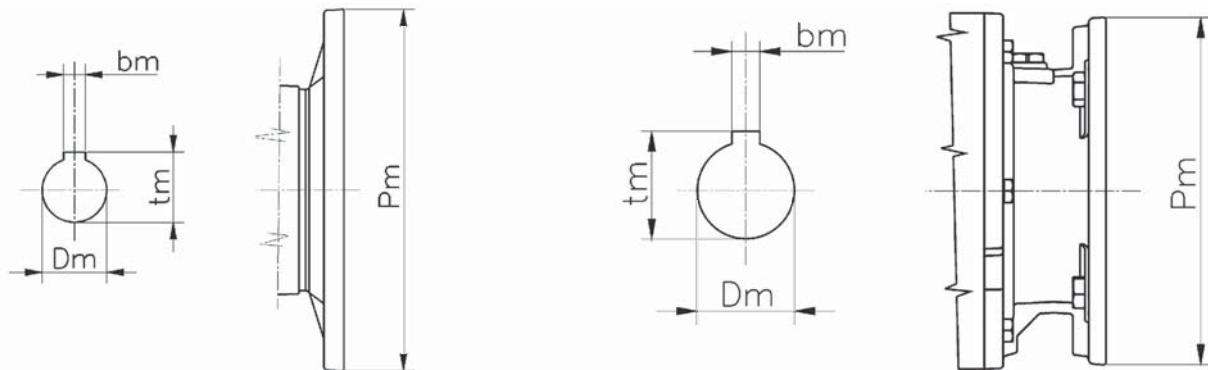
- 油品單位為公升 ~

潤滑油數量僅供參考，安裝位置或客戶組裝方式，均可能導致油位差，若要正確注油請務必參考視油鏡油量位置，必要時可以增加或減少油量。



PAM B5 - Dimensions / 標準入力法蘭-尺寸圖

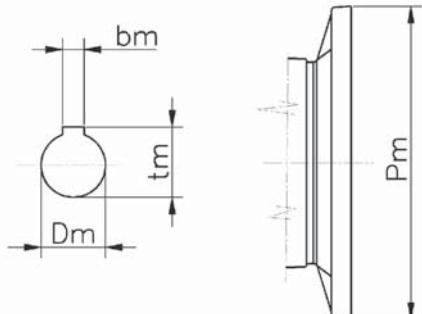
摩 托 迪 克



B5	IEC B5										
	063	071	080	090	100	112	132	160	180	200	225
Pm	140	160	200	200	250	250	300	350	350	400	450
Dm	11	14	19	24	28	28	38	42	48	55	60
bm	4	5	6	8	8	8	10	12	14	16	18
tm	12,8	16,3	21,8	27,3	31,3	31,3	41,3	45,3	51,8	59,3	64,4

PAM B14 - Dimensions / 標準入力法蘭-尺寸圖

摩 托 迪 克



B14	IEC B14							
	056	063	071	080	090	100	112	132
Pm	80	90	105	120	140	160	160	200
Dm	9	11	14	19	24	28	28	38
bm	3	4	5	6	8	8	8	10
tm	10,4	12,8	16,3	21,8	27,3	31,3	31,3	41,3

※特殊入力軸心與法蘭(如:伺服馬達或氣動馬達..等)可依要求製作。



摩托迪克



Worm geared motors and worm gear units

SW & SW-P 型 涡輪減速機

**SW
SW-P**



SW



SW-P



SW...PA



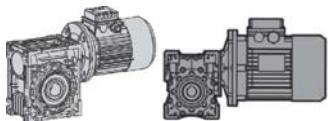
SW...PB



SW...FA.FB



ISW



摩托迪克 MOTOVARIO

Worm geared motors and worm gear units

NMRV-P & NMRV 型 涡輪減速機

NMRV-P

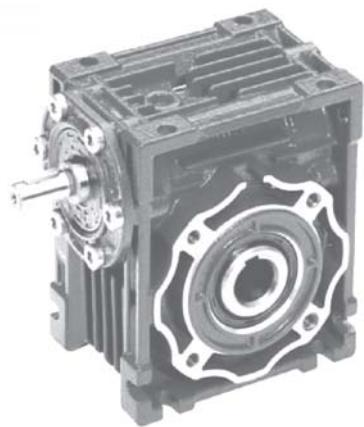
NMRV



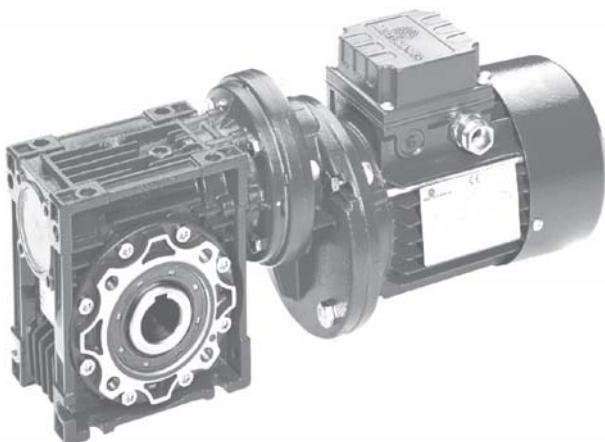
NMRV-P



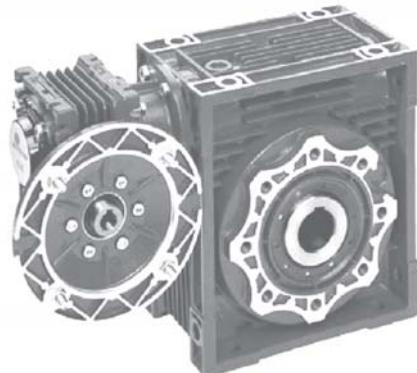
NMRV



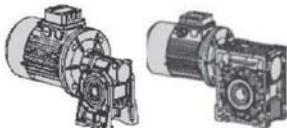
NRV



PC+NMRV



NMRV+NMRV



Designation / 潛輪減速機 - 規格型號說明

摩 托 迪 克

SW	050	FA	030	160x14	VS	125	25	B3
SW	025	T	5	PAM				B3	
SW-P	030	PA	7,5	ECE				B8	
ISW	040	PB	10					B6	
NMRV	050	PV	15					B7	
NMRV-P	063	FA	20					V5	
NRV	P063	FB	25					V6	
	075	FC	30						
	P075	FD	40						
	090	FE	50						
	P090		60						
	105		80						
	110		100						
P110									
130									
150									

Accessories 配件

Torque arm-Low speed shafts-Cover
扭力臂.出力軸.防塵蓋

Mounting position 安裝方式

Ø Output shaft 出力軸直徑 (孔徑)

Ø Output flange 出力法蘭

Double input shaft 第二入力延伸軸

Input dimensions 入力尺寸

Fitted for motor coupling

PAM
(160x14) 馬達直結法蘭

Input shaft diameter

ECE
(28) 入力軸直徑

Reduction ratio 減速比

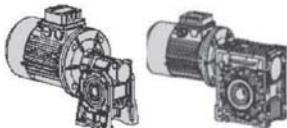
Output flange / Feet 出力法蘭 / 腳座 (PA.PB.PV為 SW 型專用)

Size 框號

Gearbox type 減速機類型

SW/SW-P Worm geared motor 入力法蘭型
NMRV/NMRV-P

ISW Worm reduction unit 入力軸型
NRV



Designation / 齒輪渦輪減速機 + 渦輪減速機 - 規格型號說明

摩 托 迪 克

PC 071 SW 050 120 120x14 25 BS B3

PC	063	SW	040	Y22.08	PAM
HA	071	SW-P	050	~	IEC
HW	080	NMRV	063	Y1083	
HF	090	NMRV-P	075		
RF			090		
			105		
			110		
			130		
			150		

AS
BS
VS
PS

Mounting position 安裝方式

Execution PC齒輪安裝的方向

Ø Output shaft 出力軸直徑(孔徑)

Input dimensions SW/SW-P/NMRV/NMRV-P 人力側尺寸

Reduction ratio 減速比

Size 渦輪框號

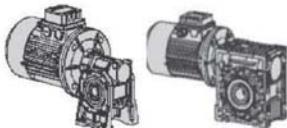
Gearbox type 渦輪型式

SW/SW-P Worm geared motor 入力法蘭型
NMRV/NMRV-P

Size 齒輪框號

Pre-stage helical module 第一段齒輪減速機型式

PC減速比: 1/3 , PC/PAM減速比: 1/2 ~ 1/7.5


Designation / 二段型渦輪減速機 - 規格型號說明
摩 托 迪 克
SW+SW 050+110 FA 900 160*14 40 BS1 B3

SW+SW	030+040	T	1/100	PAM	AS1
ISW+SW	030+050	PA	{	ECE	AS2
NMRV+NMRV	030+063	PB			BS1
NRV+NMRV	040+075	PV	1/5000		BS2
SW+NMRV	040+090	FA			VS1
ISW+NMRV	050+105	FB			VS2
	050+110	FC			PS1
	063+130	FD			PS2
	063+150	FE			

Mounting position 安裝方式

Execution 入力側安裝的方向

Ø Output shaft 出力軸直徑(孔徑)

Input dimensions 入力尺寸

Fitted for motor coupling
PAM
 (160x14) 馬達直結法蘭

Input shaft diameter
ECE
 (28) 入力軸直徑

Reduction ratio 減速比

Output flange / Feet 出力法蘭 / 腳座 (PA.PB.PV為 SW 型專用)

Size 框號

Gearbox type 減速機類型

SW+SW

NMRV+NMRV Combined worm geared motor 馬達直結型

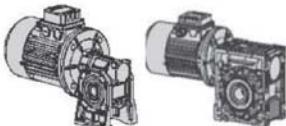
SW+NMRV

ISW+SW

NRV+NMRV

ISW+NMRV

Combined worm reduction unit 入力軸型



Efficiency - Dynamic irreversibility - Static irreversibility

效 率 - 動態不可逆性

- 靜態不可逆性

摩 托 迪 克

摩 托 迪 克

EFFICIENCY

Efficiency is a parameter which has a major influence on the sizing of certain applications, and basically depends on gear pair design elements.

The mesh data table on page 24 shows dynamic efficiency ($n_1=1400$) and static efficiency values. Remember that these values are only achieved after the unit has been run in.

DYNAMIC IRREVERSIBILITY

Dynamic irreversibility is achieved when the output shaft stops instantly when drive is no longer transmitted through the worm shaft. This condition requires a dynamic efficiency of $\eta_d < 0.5$ (see table on page 175).

STATIC IRREVERSIBILITY

Static irreversibility is achieved when, with the gear reducer at a standstill, the application of a load to the output shaft does not set in motion the worm shaft. This condition requires a static efficiency of $\eta_s < 0.5$ (see table on page 175).

N.B.: Vibrations and shocks can affect a gear reducer's irreversibility.

效率

效率是某些用途的減速機尺寸的主要影響參數而且原則上視齒輪組設計元素而定。第 175 頁上的嚙合參數表顯示動態效率($n_1=1400$)與靜態數值。記得這些數值只有在減速機試車嚙合後才可能達到。

動態不可逆性

當傳動不再透過蝸桿而立即停止輸出軸時即達到動態不可逆性。此條件要求一動態效率值 $\eta_d < 0.5$ (參考第 175 頁上的圖表)。

靜態不可逆性

當齒輪減速機在靜止狀態而且在輸出軸施加一負載時不致於啓動蝸桿時即達到靜態不可逆性。此條件要求一靜態效率值 $\eta_s < 0.5$ (參考第 175 頁上的圖表)。

圖表所示為大約的不可逆性等級。

振動與衝擊會影響一齒輪減速機的不可逆性。

針對一台組合的齒輪機組的不可逆性條件我們需考慮該齒輪機組的效率係取決於每一各別減速機的輸出效能，即 $\eta_{tot} = \eta_1 \times \eta_2$

η_d	>0.6	0.5÷0.6	0.4÷0.5	<0.4
動態防逆轉特性	動態可逆轉性	動態不可逆轉性低	動態不可逆轉性高	動態不可逆轉

η_s	>0.55	0.5÷0.55	<0.5
靜能防逆轉特性	靜態可逆轉性	靜態不可逆轉性低	靜態不可逆轉

Direction of rotation / 旋轉方向 (右旋牙)

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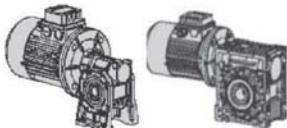


SW - ISW
NMRV-NRV



SW+SW - ISW+SW
NMRV+NMRV-NMRV+NRV

Il senso dell'elica è destro. - The helix is right-handed. - Die Schnecke ist rechtsgängig. - Le sens d'hélice est à droite. - El sentido de la hélice es hacia la derecha.

SW
NMRV

Mesh data - 傳動數據表

摩 托 迪 克

	i	5	7,5	10	15	20	25	30	40	50	60	80	100
025	Z1	6	4	3	2	2		1	1	1	1		
	γ	35°02'	25°03'	19°19'	13°09'	10°41'		6°40'	5°23'	4°31'	3°53'		
	Mx	1,3	1,3	1,3	1,3	0,995		1,3	0,995	0,8	0,67		
	$\eta\delta(1400)$	0,87	0,85	0,83	0,79	0,75		0,67	0,62	0,58	0,55		
	ηs	0,72	0,71	0,68	0,61	0,56		0,46	0,41	0,36	0,34		
030	Z1	6	4	3	2	2	1	1	1	1	1	1	
	γ	27°04'	18°49'	14°20'	9°40'	7°42'	5°35'	4°52'	3°52'	3°12'	2°45'	2°07'	
	Mx	1,44	1,44	1,44	1,44	1,09	1,7	1,44	1,09	0,89	0,74	0,56	
	$\eta\delta(1400)$	0,87	0,85	0,83	0,78	0,74	0,69	0,66	0,6	0,56	0,52	0,45	
	ηs	0,72	0,67	0,63	0,55	0,5	0,43	0,39	0,35	0,31	0,27	0,23	
040	Z1	6	4	3	2	2	2	1	1	1	1	1	1
	γ	34°19'	24°28'	18°51'	12°49'	10°23'	8°43'	6°29'	5°14'	4°23'	3°47'	2°57'	2°25'
	Mx	2,06	2,06	2,06	2,06	1,57	1,27	2,06	1,57	1,27	1,06	0,81	0,65
	$\eta\delta(1400)$	0,89	0,87	0,85	0,83	0,79	0,76	0,71	0,66	0,63	0,59	0,53	0,48
	ηs	0,74	0,71	0,67	0,6	0,55	0,51	0,45	0,4	0,36	0,32	0,28	0,24
050	Z1	6	4	3	2	2	2	1	1	1	1	1	1
	γ	33°37'	23°54'	18°23'	12°30'	10°06'	8°29'	6°19'	5°06'	4°16'	3°40'	2°52'	2°21'
	Mx	2,56	2,56	2,56	2,56	1,95	1,58	2,56	1,95	1,58	1,32	1	0,8
	$\eta\delta(1400)$	0,89	0,88	0,87	0,83	0,8	0,77	0,73	0,68	0,64	0,6	0,54	0,5
	ηs	0,74	0,7	0,66	0,59	0,55	0,51	0,44	0,39	0,35	0,32	0,27	0,23
063	Z1	4	3	2	2	2	1	1	1	1	1	1	1
	γ	24°31'	18°53'	12°51'	10°25'	8°45'	6°30'	5°15'	4°24'	3°47'	2°58'	2°26'	
	Mx	3,25	3,25	3,25	3,25	2,48	2	3,25	2,48	2	1,68	1,27	1,02
	$\eta\delta(1400)$	0,89	0,87	0,84	0,82	0,79	0,75	0,71	0,67	0,63	0,58	0,52	
	ηs	0,71	0,67	0,6	0,55	0,51	0,45	0,4	0,36	0,33	0,28	0,24	
075	Z1	4	3	2	2	2	1	1	1	1	1	1	1
	γ	26°17'	20°20'	13°52'	11°18'	9°32'	7°02'	5°42'	4°48'	4°08'	3°14'	2°40'	
	Mx	3,94	3,94	3,94	3,94	3	2,42	3,94	3	2,42	2,03	1,54	1,24
	$\eta\delta(1400)$	0,89	0,88	0,86	0,83	0,81	0,77	0,73	0,7	0,66	0,61	0,56	
	ηs	0,71	0,68	0,61	0,57	0,53	0,46	0,42	0,38	0,35	0,29	0,26	
090	Z1	4	3	2	2	2	1	1	1	1	1	1	1
	γ	29°11'	22°44'	15°36'	12°50'	10°54'	7°57'	6°30'	5°30'	4°46'	3°45'	3°06'	
	Mx	4,84	4,84	4,84	4,84	3,69	2,98	4,84	3,69	2,98	2,5	1,89	1,52
	$\eta\delta(1400)$	0,9	0,89	0,87	0,85	0,83	0,79	0,76	0,73	0,7	0,64	0,6	
	ηs	0,73	0,7	0,64	0,6	0,56	0,49	0,45	0,41	0,38	0,32	0,28	
105	Z1	4	3	2	2	2	1	1	1	1	1	1	1
	γ	28°15'	21°57'	15°02'	14°41'	12°34'	7°39'	7°28'	6°22'	5°32'	4°24'	3°39'	
	Mx	5,875	5,875	5,875	5,875	4,62	3,73	5,875	4,62	3,73	3,13	2,37	1,91
	$\eta\delta(1400)$	0,9	0,89	0,87	0,86	0,85	0,8	0,79	0,76	0,73	0,68	0,64	
	ηs	0,72	0,69	0,63	0,62	0,59	0,48	0,48	0,44	0,41	0,36	0,32	
110	Z1	4	3	2	2	2	1	1	1	1	1	1	1
	γ	28°15'	21°57'	15°02'	14°41'	12°34'	7°39'	7°28'	6°22'	5°32'	4°24'	3°39'	
	Mx	5,875	5,875	5,875	5,875	4,62	3,73	5,875	4,62	3,73	3,13	2,37	1,91
	$\eta\delta(1400)$	0,9	0,89	0,87	0,86	0,85	0,8	0,79	0,76	0,73	0,68	0,64	
	ηs	0,72	0,69	0,63	0,62	0,59	0,48	0,48	0,44	0,41	0,36	0,32	
130	Z1	4	3	2	2	2	1	1	1	1	1	1	1
	γ	28°41'	22°19'	15°18'	13°52'	11°49'	7°47'	7°02'	5°58'	5°11'	4°07'	3°24'	
	Mx	6,97	6,97	6,97	5,4	4,37	6,97	5,4	4,37	3,67	2,77	2,23	
	$\eta\delta(1400)$	0,91	0,89	0,87	0,87	0,85	0,81	0,79	0,76	0,73	0,69	0,65	
	ηs	0,72	0,69	0,63	0,61	0,58	0,49	0,46	0,43	0,39	0,34	0,3	
150	Z1	6	4	3	2	2	2	1	1	1	1	1	1
	γ	32°09'	24°35'	17°27'	12°53'	11°19'	9°50'	6°32'	5°43'	4°57'	3°55'	3°14'	
	Mx	5,5	6,155	5,5	6,155	5	4,193	6,155	5	4,193	3,17	2,55	
	$\eta\delta(1400)$	0,91	0,9	0,88	0,87	0,85	0,84	0,79	0,77	0,74	0,69	0,65	
	ηs	0,73	0,71	0,66	0,6	0,57	0,54	0,45	0,42	0,39	0,33	0,29	

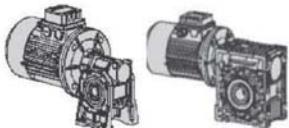
i : 減速比

Z1 : 潛桿旋齒數

 γ : 螺旋角度

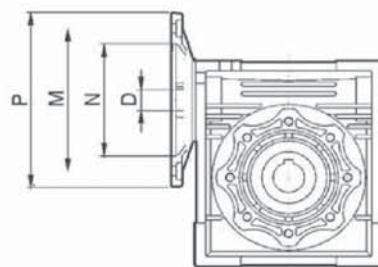
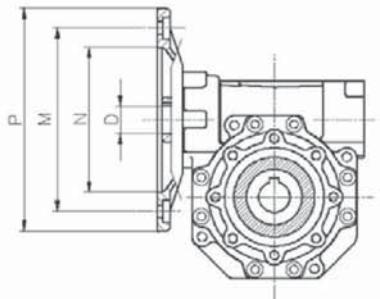
Mx : 模數

 $\eta \delta$: 動態效率 ηs : 靜態效率



Predisposition / 輸入側規格

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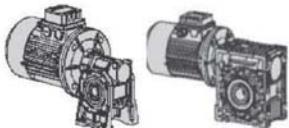


(*) Low profile key
supplied by Motovario

(*) 出力軸鍵槽特殊,
鍵由原廠供應.

SW/NMRV	PAM IEC	N	M	P	D									
					5	7,5	10	15	20	25	30	40	50	60
025	56B14	50	65	80	9	9	9	9	9	-	9	9	9	9
030	63B5	95	115	140	11	11	11	11	11	11	11	11	11	-
	63B14	60	75	90	9	9	9	9	9	9	9	9	9	9
	56B5	80	100	120										
	56B14	50	65	80										
040	71B5	110	130	160	14	14	14	14	14	14	14	14	-	-
	71B14	70	85	105										
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90										
	56B5	80	100	120	-	-	-	-	-	-	-	9	9	9
050	80B5	130	165	200	19	19	19	19	19	19	19	-	-	-
	80B14	80	100	120										
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	-
	71B14	70	85	105										
	63B5	95	115	140	-	-	-	-	-	-	-	11	11	11
063	90B5	130	165	200	-	24	24	24	24	24	24	-	-	-
	90B14	95	115	140										
	80B5	130	165	200	-	19	19	19	19	19	19	19	19	-
	80B14	80	100	120										
	71B5	110	130	160	-	-	-	-	-	-	-	14	14	14
	71B14	70	85	105								14	14	14
075	100/112B5	180	215	250	-	28	28	28	-	-	-	-	-	-
	100/112B14	110	130	160										
	90B5	130	165	200	-	24	24	24	24	24	24	-	-	-
	90B14	95	115	140										
	80B5	130	165	200	-	-	-	-	19	19	19	19	19	19
	80B14	80	100	120										
	71B5	110	130	160	-	-	-	-	-	-	-	14	14	14
090	100/112B5	180	215	250	-	28	28	28	28	28	28	-	-	-
	100/112B14	110	130	160										
	90B5	130	165	200	-	24	24	24	24	24	24	-	-	-
	90B14	95	115	140										
	80B5	130	165	200	-	-	-	-	-	-	-	19	19	19
	80B14	80	100	120										
105	132B5	230	265	300	-	38*	38*	38*	38*	-	-	-	-	-
	100/112B5	180	215	250	-	28	28	28	28	28	28	28	28	-
	90B5	130	165	200	-	-	-	-	24	24	24	24	24	24
	80B5	130	165	200	-	-	-	-	-	-	-	-	19	19
110	132B5	230	265	300	-	38*	38*	38*	38*	-	-	-	-	-
	100/112B5	180	215	250	-	28	28	28	28	28	28	28	28	-
	90B5	130	165	200	-	-	-	-	24	24	24	24	24	24
	80B5	130	165	200	-	-	-	-	-	-	-	-	19	19
130	132B5	230	265	300	-	38*	38*	38*	38*	38*	38*	-	-	-
	100/112B5	180	215	250	-	-	-	-	28	28	28	28	28	28
	90B5	130	165	200	-	-	-	-	-	-	-	-	24	24
150	160B5	250	300	350	-	42	42	42	42	-	-	-	-	-
	132B5	230	265	300	-	-	-	-	38	38	38	38	38	-
	100/112B5	180	215	250	-	-	-	-	-	-	-	28	28	28

*SW025未生產 ※特殊入力軸心與法蘭(如:伺服馬達或氣動馬達..等)可依要求製作。



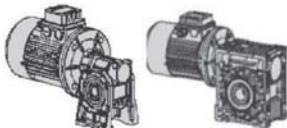
Versions SW030÷105 / 變化形式

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SW ...T	SW ...PA	SW ...PB	SW ...PV	SW ...F
SW ...T	SW ...PA	SW ...PB	SW ...PV	SW ...F
PC+SW ...PA			SW ...T - SW ...PA	

Versions SW110÷150 , NMRV025÷150 / 變化形式

SW / NMRV	SW...F / NMRV...F	ISW / NRV	ISW...F / NRV...F
SW - SW / SW - NMRV	PC + SW / PC + NMRV		



Mounting positions / 安裝位置

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SW - ISW 030 ÷ 105

	B3	B8	B6	B7	V5	V6
SW ... T						
SW ... PA						
SW ... PB						
SW ... PV						

Mounting positions / 安裝位置

SW - ISW 110 ÷ 150 / NMRV - NRV 025 ÷ 150

	B3	B8	B6	B7	V5	V6
SW						

-For vertical positions, check with pages A8.

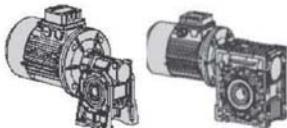
垂直式安裝，請參考 A8.

-Unless specified otherwise, the standard positions are B3.

除非特別指定，否則標準位置是B3.

-For positions not envisaged, it is necessary to call our Technical Service.

針對不特定的安裝位置，告知我們的技術服務部門是必要的.



Mounting positions / 安裝位置

摩 托 迪 克

PC - SW 030 ÷ 105

	B3	B8	B6	B7	V5	V6
SW-PC ...T						
SW-PC ...PA						
SW-PC ...PB						
SW-PC ...PV						

Mounting positions / 安裝位置

PC - SW 110 ÷ 130 / PC - NMRV 040 ÷ 130

	B3	B8	B6	B7	V5	V6
SW-PC						

-For vertical positions, check with pages A8.

垂直式安裝，請參考A8。

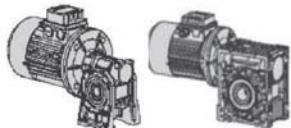
-Unless specified otherwise, the standard positions are B3.

除非特別指定，否則標準位置是B3。

-For positions not envisaged, it is necessary to call our Technical Service.

針對不特定的安裝位置，告知我們的技術服務部門是必要的。

PC的減速比約為1/3, 如1/300的組合為PC 1/3+SW 1/100高速比組合時，可考慮使用PC-PAM型(1/2~1/7.5)以減少渦輪的速比，增加減速組合的強度及扭力。



Execution / 製 作

摩 托 迪 克

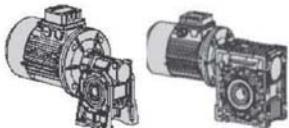
SW-SW 030 ÷ 105

AS1	AS2	VS1	VS2
PS1	PS2	BS1	BS2

Execution / 製 作

SW - SW 110 ÷ 150 / SW - NMRV 030 ÷ 150

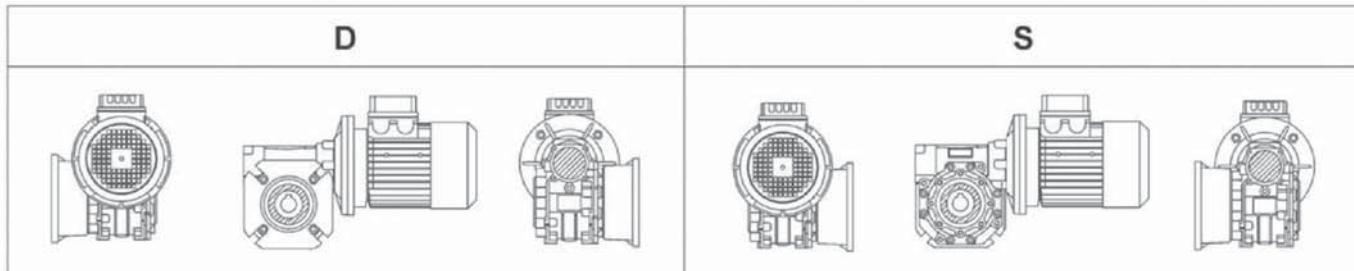
AS1	AS2	VS1	VS2
PS1	PS2	BS1	BS2



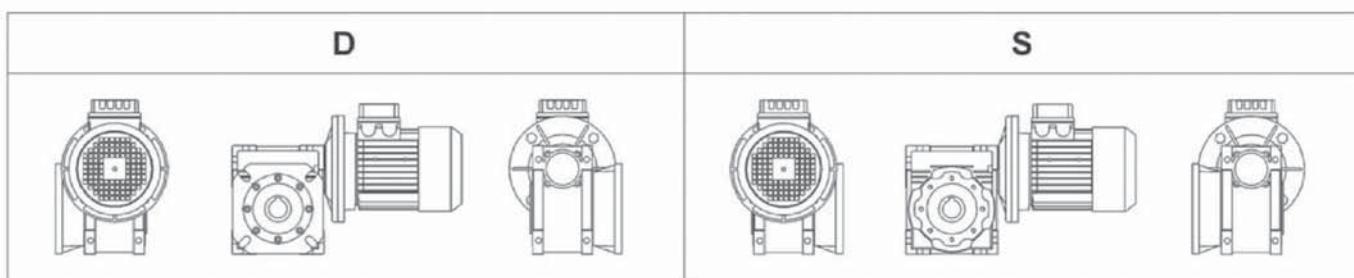
Flange F-FL / 出力法蘭

摩 托 迪 克

SW ...F 030 ÷ 105



SW ...F 110 ÷ 150 / NMRV 025 ÷ 150

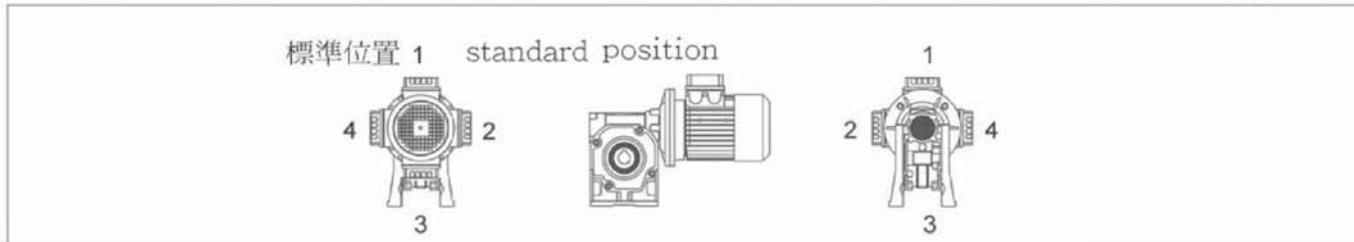


-Unless specified otherwise, the reduction unit is supplied with the flange in pos. D referred to position B3.

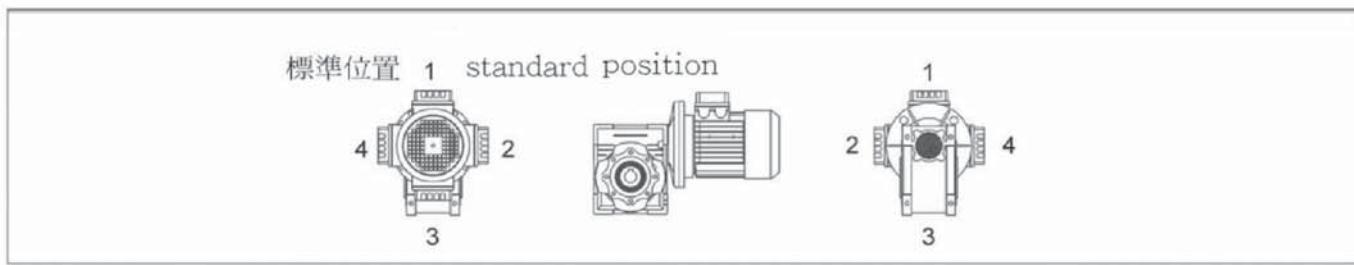
除特別指定外，否則出力法蘭依D側方向B3位置供貨。

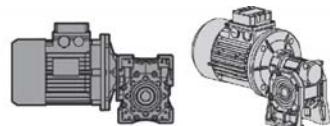
Pos. of terminal box / 馬達接線盒

SW 030 ÷ 105



SW 110 ÷ 150 / NMRV 025 ÷ 150



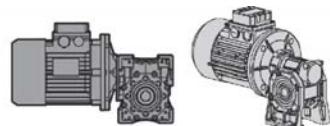


0.06 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
280,0	1,9	10	5,00	SW 030	56A4	597
186,0	2,7	7,0	7,50	NMRV 030	56A4	683
140,0	3,6	5,3	10,00		56A4	752
93,0	5,0	3,8	15,00		56A4	861
70,0	6,0	3,0	20,00		56A4	948
56,0	7,0	3,1	25,00		56A4	1021
47,0	8,0	2,6	30,00		56A4	1085
35,0	10,0	1,9	40,00		56A4	1194
28,0	11,0	1,6	50,00		56A4	1286
23,0	13,0	1,3	60,00		56A4	1367
18,0	15,0	0,9	80,00		56A4	1504
28,0	13,0	3,3	50,00	SW 040	56A4	2475
23,0	14,0	2,6	60,00	NMRV 040	56A4	2630
18,0	17,0	1,9	80,00		56A4	2895
14,0	20,0	1,5	100,00		56A4	3118
14,0	26,0	2,7	100,00	SW 030/040	56A4	2769
9,0	37,0	1,9	150,00	NMRV 030/040	56A4	3169
7,0	47,0	1,4	200,00		56A4	3488
6,0	55,0	1,1	250,00		56A4	3490
4,7	60,0	1,2	300,00		56A4	3490
3,5	72,0	0,9	400,00		56A4	3490
7,0	47,0	2,6	200,00	SW 030/050	56A4	4788
6,0	55,0	2,0	250,00	NMRV 030/050	56A4	4840
4,7	61,0	2,4	300,00		56A4	4840
3,5	73,0	1,7	400,00		56A4	4840
2,8	85,0	1,4	500,00		56A4	4840
2,3	109,0	1,3	600,00		56A4	4840
1,9	127,0	1,1	750,00		56A4	4840
1,6	146,0	1,0	900,00		56A4	4840
1,2	177,0	0,8	1200,00		56A4	4840
0,9	206,0	0,7	1500,00		56A4	4840
3,5	76,0	3,4	400,00	SW/SW-P 030/063	56A4	6270
2,8	88,0	2,7	500,00	NMRV/NMRV-P 030/063	56A4	6270
2,3	111,0	2,4	600,00		56A4	6270
1,9	129,0	2,1	750,00		56A4	6270
1,6	148,0	1,8	900,00		56A4	6270
1,2	180,0	1,5	1200,00		56A4	6270
0,9	210,0	1,3	1500,00		56A4	6270
0,8	234,0	1,2	1800,00		56A4	6270
0,6	286,0	0,9	2400,00		56A4	6270
0,5	332,0	0,7	3000,00		56A4	6270
0,9	248,0	1,8	1500,00	SW/SW-P 040/075	56A4	7380
0,8	278,0	1,6	1800,00	NMRV/NMRV-P 040/075	56A4	7380
0,6	342,0	1,2	2400,00		56A4	7380
0,5	391,0	0,9	3000,00		56A4	7380
0,4	469,0	0,8	4000,00		56A4	7380
0,9	259,0	2,7	1500,00	SW/SW-P 040/090	56A4	8180
0,8	291,0	2,4	1800,00	NMRV/NMRV-P 040/090	56A4	8180
0,6	359,0	1,7	2400,00		56A4	8180
0,5	420,0	1,3	3000,00		56A4	8180
0,4	503,0	1,1	4000,00		56A4	8180
0,3	570,0	1,0	5000,00		56A4	8180


0.09 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
280,0	2,7	7,0	5,00	SW 030	56B4	861
186,0	3,9	4,8	7,50	NMRV 030	56B4	948
140,0	5,1	3,7	10,00		56B4	1021
93,0	7,0	2,6	15,00		56B4	861
70,0	9,0	2,0	20,00		56B4	948
56,0	11,0	2,1	25,00		56B4	1021
47,0	12,0	1,7	30,00		56B4	1085
35,0	15,0	1,3	40,00		56B4	1194
28,0	17,0	1,0	50,00		56B4	1286
23,0	19,0	0,8	60,00		56B4	1367
28,0	19,0	2,2	50,00	SW 040	56B4	2475
23,0	22,0	1,7	60,00	NMRV 040	56B4	2630
18,0	26,0	1,3	80,00		56B4	2895
14,0	29,0	1,0	100,00		56B4	3118
8,0	56,0	3,2	176,70	HW030+SW-P 063	56B4	6270
7,0	78,0	3,2	196,90	HW030+NMRV-P 063	56B4	6270
6,0	74,0	3,4	218,20		56B4	6270
6,0	85,0	3,3	236,30		56B4	6270
5,0	86,0	2,7	272,70		56B4	6270
4,4	104,0	2,6	315,00		56B4	6270
3,6	121,0	2,0	393,80		56B4	6270
3,2	141,0	2,0	433,30		56B4	6270
3,0	134,0	1,6	472,50		56B4	6270
2,6	164,0	1,5	541,70		56B4	6270
2,2	180,0	1,3	650,00		56B4	6270
1,8	172,0	0,8	787,50		56B4	6270
1,6	210,0	0,8	866,70		56B4	6270
3,6	126,0	3,2	393,80	HW030+SW-P 075	56B4	7380
3,0	142,0	2,6	472,50	HW030+NMRV-P 075	56B4	7380
2,6	170,0	2,2	541,70		56B4	7380
2,2	192,0	2,0	650,00		56B4	7380
1,8	186,0	1,2	787,50		56B4	7380
1,6	226,0	1,3	866,70		56B4	7380
1,3	249,0	0,9	1083,30		56B4	7380
14,0	39,0	1,8	100,00	SW 030/040	56B4	2769
9,0	56,0	1,3	150,00	NMRV 030/040	56B4	3169
7,0	70,0	0,9	200,00		56B4	3488
6,0	83,0	0,7	250,00		56B4	3490
4,7	90,0	0,8	300,00		56B4	3490
14,0	40,0	3,4	100,00	SW 030/050	56B4	3800
9,0	56,0	2,4	150,00	NMRV 030/050	56B4	4350
7,0	70,0	1,7	200,00		56B4	4788
6,0	83,0	1,3	250,00		56B4	4840
4,7	92,0	1,6	300,00		56B4	4840
3,5	110,0	1,1	400,00		56B4	4840
2,8	127,0	0,9	500,00		56B4	4840
2,3	164,0	0,9	600,00		56B4	4840
1,9	191,0	0,8	750,00		56B4	4840
6,0	85,0	2,7	250,00	SW/SW-P 030/063	56B4	6270
4,7	88,0	2,9	300,00	NMRV/NMRV-P 030/063	56B4	6270
3,5	114,0	2,2	400,00		56B4	6270
2,8	132,0	1,8	500,00		56B4	6270
2,3	166,0	1,6	600,00		56B4	6270

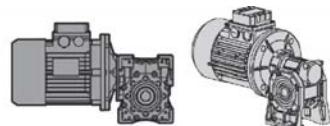


0.09 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
1,9	194,0	1,4	750,00	SW/SW-P 030/063	56B4	6270
1,6	222,0	1,2	900,00	NMRV/NMRV-P 030/063	56B4	6270
1,2	270,0	1,0	1200,00		56B4	6270
0,9	315,0	0,9	1500,00		56B4	6270
0,8	351,0	0,8	1800,00		56B4	6270
0,9	354,0	0,8	1500,00		56B4	6270
0,9	371,0	1,2	1500,00	SW/SW-P 040/075	56B4	7380
0,8	417,0	1,1	1800,00	NMRV/NMRV-P 040/075	56B4	7380
0,6	513,0	0,8	2400,00		56B4	7380
0,9	389,0	1,8	1500,00	SW/SW-P 040/090	56B4	8180
0,8	437,0	1,6	1800,00	NMRV/NMRV-P 040/090	56B4	8180
0,6	539,0	1,1	2400,00		56B4	8180
0,5	630,0	0,9	3000,00		56B4	8180
0,4	755,0	0,7	4000,00		56B4	8180

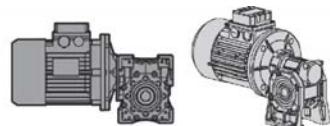
0.18 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
373,0	4,0	3,2	7,50	SW 030	63A2	542
280,0	5,0	2,5	10,00	NMRV 030	63A2	597
187,0	8,0	1,7	15,00		63A2	683
140,0	10,0	1,2	20,00		63A2	752
112,0	12,0	1,4	25,00		63A2	810
93,0	13,0	1,1	30,00		63A2	861
70,0	16,0	0,9	40,00		63A2	948
280,0	5,6	3,3	5,00	SW 030	63B4	597
187,0	8,0	2,4	7,50	NMRV 030	63B4	683
140,0	10,0	1,9	10,00		63B4	752
93,0	14,0	1,3	15,00		63B4	861
70,0	18,0	1,0	20,00		63B4	948
56,0	21,0	1,0	25,00		63B4	1021
47,0	24,0	0,9	30,00		63B4	1085
140,0	10,0	2,8	20,00	SW 040	63A2	1447
112,0	12,0	2,3	25,00	NMRV 040	63A2	1559
93,0	14,0	2,4	30,00		63A2	1657
70,0	18,0	1,7	40,00		63A2	1824
56,0	21,0	1,4	50,00		63A2	1964
47,0	24,0	1,2	60,00		63A2	2087
35,0	29,0	0,8	80,00		63A2	2298
93,0	15,0	2,9	15,00	SW 040	63B4	1657
70,0	19,0	2,2	20,00	NMRV 040	63B4	1824
56,0	23,0	1,7	25,00		63B4	1964
47,0	26,0	1,8	30,00		63B4	2087
35,0	32,0	1,4	40,00		63B4	2298
28,0	39,0	1,1	50,00		63B4	2475
23,0	43,0	0,9	60,00		63B4	2630
90,0	16,0	3,0	10,00	SW 040	71A6	1677
60,0	23,0	2,2	15,00	NMRV 040	71A6	1920
45,0	29,0	1,7	20,00		71A6	2113
36,0	35,0	1,3	25,00		71A6	2276



0.18 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
30,0	38,0	1,4	30,00	SW 040	71A6	2419
23,0	48,0	1,0	40,00	NMRV 040	71A6	2662
35,0	33,0	2,5	40,00	SW 050	63B4	3153
28,0	39,0	2,0	50,00	NMRV 050	63B4	3397
23,0	44,0	1,6	60,00		63B4	3610
18,0	53,0	1,2	80,00		63B4	3973
14,0	61,0	0,9	100,00		63B4	4280
23,0	50,0	3,4	40,00	SW-P 063	71A6	4776
18,0	59,0	2,7	50,00	NMRV-P 063	71A6	5145
15,0	68,0	2,3	60,00		71A6	5467
11,0	81,0	1,7	80,00		71A6	6018
9,0	92,0	1,4	100,00		71A6	6270
63,0	22,0	2,6	22,10	HA31+SW 040	63B4	1885
59,0	24,0	2,6	23,80	HA31+NMRV 040	63B4	1931
55,0	25,0	2,5	25,50		63B4	1977
48,0	28,0	2,1	29,40		63B4	2074
44,0	31,0	2,1	31,50		63B4	2122
39,0	34,0	1,9	35,60		63B4	2211
34,0	39,0	1,8	40,90		63B4	2315
32,0	40,0	1,6	44,20		63B4	2375
29,0	44,0	1,5	47,50		63B4	2433
26,0	51,0	1,4	54,50		63B4	2548
24,0	51,0	1,1	58,90		63B4	2614
22,0	58,0	1,2	63,00		63B4	2673
20,0	63,0	1,1	71,30		63B4	2785
18,0	72,0	1,0	78,80		63B4	2880
16,0	67,0	0,9	88,30		63B4	2992
15,0	82,0	0,9	94,50		63B4	3060
14,0	85,0	0,7	102,00		63B4	3139
13,0	91,0	0,7	109,10		63B4	3210
12,0	103,0	0,7	118,10		63B4	3296
59,0	24,0	3,0	23,80	HA31+SW 050	63B4	2650
55,0	25,0	2,9	25,50	HA31+NMRV 050	63B4	2714
44,0	31,0	2,4	31,50		63B4	2912
39,0	35,0	3,0	35,60		63B4	3034
34,0	40,0	2,8	40,90		63B4	3177
32,0	40,0	2,8	44,20		63B4	3259
29,0	45,0	2,9	47,50		63B4	3339
26,0	52,0	2,6	54,50		63B4	3497
24,0	52,0	2,0	58,90		63B4	3587
22,0	59,0	2,3	63,00		63B4	3669
20,0	63,0	2,0	71,30		63B4	3823
18,0	74,0	1,8	78,80		63B4	3952
16,0	68,0	1,7	88,30		63B4	4107
15,0	83,0	1,6	94,50		63B4	4200
14,0	85,0	1,3	102,00		63B4	4308
13,0	91,0	1,3	109,10		63B4	4406
12,0	103,0	1,3	118,10		63B4	4524
11,0	101,0	1,0	127,50		63B4	4641
10,0	105,0	1,3	142,50		63B4	4816
9,0	105,0	1,1	154,70		63B4	4840
9,0	119,0	1,2	163,60		63B4	4840
7,0	136,0	1,0	189,00		63B4	4840

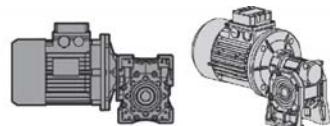

0.18 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
7,0	135,0	0,9	204,00	HA31+SW 050	63B4	4840
6,0	169,0	0,9	236,30	HA31+NMRV 050	63B4	4840
6,0	163,0	0,7	252,00		63B4	4840
18,0	67,0	3,3	77,30	HW030+SW-P 063	63B4	5135
17,0	73,0	3,3	81,80	HW030+NMRV-P 063	63B4	5233
16,0	69,0	3,1	88,30		63B4	5368
15,0	81,0	2,9	95,00		63B4	5500
13,0	92,0	2,7	109,10		63B4	5759
12,0	104,0	2,5	118,10		63B4	5914
10,0	110,0	2,1	136,40		63B4	6204
10,0	106,0	2,4	142,50		63B4	6270
9,0	131,0	2,1	157,50		63B4	6270
9,0	121,0	2,2	163,60		63B4	6270
8,0	113,0	1,6	176,70		63B4	6270
7,0	156,0	1,6	196,90		63B4	6270
6,0	149,0	1,7	218,20		63B4	6270
6,0	171,0	1,7	236,30		63B4	6270
5,0	172,0	1,3	272,70		63B4	6270
4,4	209,0	1,3	315,00		63B4	6270
3,6	242,0	1,0	393,80		63B4	6270
3,2	282,0	1,0	433,30		63B4	6270
3,0	268,0	0,8	472,50		63B4	6270
2,6	328,0	0,8	541,70		63B4	6270
10,0	114,0	3,0	136,40	HW030+SW-P 075	63B4	7323
9,0	114,0	3,2	154,70	HW030+NMRV-P 075	63B4	7380
9,0	127,0	3,3	163,60		63B4	7380
8,0	119,0	2,6	176,70		63B4	7380
7,0	161,0	2,4	196,90		63B4	7380
6,0	156,0	2,6	218,20		63B4	7380
6,0	179,0	2,7	236,30		63B4	7380
5,0	179,0	2,1	272,70		63B4	7380
4,4	220,0	2,0	315,00		63B4	7380
3,6	251,0	1,6	393,80		63B4	7380
3,0	285,0	1,3	472,50		63B4	7380
2,6	339,0	1,1	541,70		63B4	7380
2,2	384,0	1,0	650,00		63B4	7380
8,0	131,0	3,5	186,30	HW040+SW-P 090	63B4	8180
6,0	170,0	2,9	252,00	HW040+NMRV-P 090	63B4	8180
5,0	194,0	3,1	275,00		63B4	8180
4,6	213,0	2,6	304,50		63B4	8180
4,2	217,0	2,4	330,00		63B4	8180
3,7	263,0	2,4	383,30		63B4	8180
3,2	298,0	2,2	437,50		63B4	8180
3,0	294,0	1,9	460,00		63B4	8180
2,7	333,0	1,7	525,00		63B4	8180
2,3	356,0	1,2	613,30		63B4	8180
2,0	403,0	1,1	700,00		63B4	8180
1,8	399,0	0,9	766,70		63B4	8180
1,6	450,0	0,8	875,00		63B4	8180
3,7	282,0	3,4	383,30	HW040+SW-P 110	63B4	10320
3,2	283	2,8	440,00	HW040+NMRV-P 110	63B4	10320
3,0	316,0	3,1	460,00		63B4	10320
2,7	358,0	2,6	525,00		63B4	10320



0.18 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
2,3	385,0	2,1	613,30	HW040+SW-P 110	63B4	10320
2,0	437,0	1,9	700,00	HW040+NMRV-P 110	63B4	10320
1,8	435,0	1,5	766,70		63B4	10320
1,6	492,0	1,3	875,00		63B4	10320
3,0	345,0	3,4	304,50	HW040+SW-P 110	71A6	10320
2,7	350,0	2,9	330,00	HW040+NMRV-P 110	71A6	10320
2,3	431,0	2,3	383,30		71A6	10320
2,0	427,0	1,9	440,00		71A6	10320
2,0	480,0	2,2	460,00		71A6	10320
1,7	545,0	1,7	525,00		71A6	10320
1,5	587,0	1,4	613,30		71A6	10320
1,3	667,0	1,3	700,00		71A6	10320
1,2	659,0	1,0	766,70		71A6	10320
1,0	747,0	0,9	875,00		71A6	10320
14,0	81,0	1,7	100,00	SW 030/050	63B4	3800
9,0	112,0	1,2	150,00	NMRV 030/050	63B4	4350
7,0	141,0	0,9	200,00		63B4	4788
4,7	183,0	0,8	300,00		63B4	4840
14,0	81,0	1,9	100,00	SW/SW-P 030/063	63B4	4967
9,0	113,0	1,9	150,00	NMRV/NMRV-P 030/063	63B4	5686
7,0	143,0	1,8	200,00		63B4	6259
6,0	171,0	1,4	250,00		63B4	6270
4,7	175,0	1,5	300,00		63B4	6270
3,5	228,0	1,1	400,00		63B4	6270
2,8	265,0	0,9	500,00		63B4	6270
2,3	333,0	0,8	600,00		63B4	6270
14,0	82,0	1,7	100,00	SW 040/050	63B4	3800
9,0	114,0	1,2	150,00	NMRV 040/050	63B4	4350
7,0	144,0	0,8	200,00		63B4	4788
4,7	188,0	0,8	300,00		63B4	4840
14,0	82,0	3,1	100,00	SW/SW-P 040/063	63B4	4967
9,0	116,0	2,2	150,00	NMRV/NMRV-P 040/063	63B4	5686
7,0	146,0	1,7	200,00		63B4	6259
6,0	175,0	1,3	250,00		63B4	6270
4,7	191,0	1,4	300,00		63B4	6270
3,5	234,0	1,1	400,00		63B4	6270
2,8	325,0	0,7	500,00		63B4	6270
2,3	355,0	0,8	600,00		63B4	6270
7,0	150,0	2,8	200,00	SW/SW-P 040/075	63B4	7380
6,0	180,0	2,1	250,00	NMRV/NMRV-P 040/075	63B4	7380
4,7	200,0	2,2	300,00		63B4	7380
3,5	246	1,7	400,00		63B4	7380
2,8	282,0	1,3	500,00		63B4	7380
2,3	372,0	1,2	600,00		63B4	7380
1,9	448,0	1,0	750,00		63B4	7380
1,6	502,0	0,9	900,00		63B4	7380
1,2	622,0	0,7	1200,00		63B4	7380
6,0	188,0	3,0	250,00	SW/SW-P 040/090	63B4	8180
4,7	210,0	3,3	300,00	NMRV/NMRV-P 040/090	63B4	8180
3,5	259,0	2,4	400,00		63B4	8180
2,8	303,0	1,9	500,00		63B4	8180
2,3	390,0	1,8	600,00		63B4	8180
1,9	469,0	1,5	750,00		63B4	8180

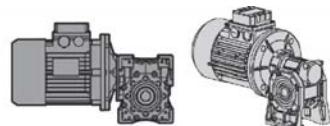


0.18 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
1,6	526,0	1,3	900,00	SW/SW-P 040/090	63B4	8180
1,2	652,0	1,1	1200,00	NMRV/NMRV-P 040/090	63B4	8180
0,9	777,0	0,9	1500,00		63B4	8180
0,8	874,0	0,8	1800,00		63B4	8180
1,2	671,0	1,0	1200,00		63B4	8180
0,9	790,0	0,9	1500,00		63B4	8180
0,8	888,0	0,8	1800,00		63B4	8180
1,2	671,0	1,9	1200,00	SW/SW-P 050/110	63B4	10320
0,9	790,0	1,6	1500,00	NMRV/NMRV-P 050/110	63B4	10320
0,8	888,0	1,4	1800,00		63B4	10320
0,6	1149,0	1,0	2400,00		63B4	10320
0,5	1370,0	0,8	3000,00		63B4	10320

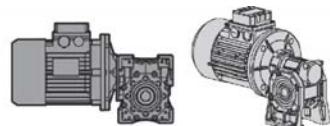
0.25 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
560,0	3,8	3,2	5,00	SW 030	63B2	474
373,0	6,0	2,3	7,50	NMRV 030	63B2	542
280,0	7,0	1,8	10,00		63B2	597
187,0	10,0	1,2	15,00		63B2	683
140,0	13,0	0,9	20,00		63B2	752
112,0	16,0	1,0	25,00		63B2	810
93,0	18,0	0,8	30,00		63B2	861
280,0	7,0	2,6	5,00	SW 030	63D4	597
187,0	11,0	1,7	7,50	NMRV 030	63D4	683
140,0	14,0	1,3	10,00		63D4	752
93,0	20,0	1,0	15,00		63D4	861
70,0	25,0	0,7	20,00		63D4	948
56,0	29,0	0,7	25,00		63D4	1021
560,0	3,8	6,3	5,00	SW 040	63B2	912
373,0	5,6	5,0	7,50	NMRV 040	63B2	1044
280,0	7,2	4,0	10,00		63B2	1149
187,0	11,0	2,9	15,00		63B2	1315
140,0	14,0	2,0	20,00		63B2	1447
112,0	17,0	1,6	25,00		63B2	1559
93,0	20,0	1,7	30,00		63B2	1657
70,0	25,0	1,2	40,00		63B2	1824
56,0	29,0	1,0	50,00		63B2	1964
47,0	34,0	0,8	60,00		63B2	2087
140,0	15,0	3,0	10,00	SW 040	63D4	1447
93,0	21,0	2,1	15,00	NMRV 040	63D4	1657
70,0	27,0	1,6	20,00		63D4	1824
56,0	32,0	1,2	25,00		63D4	1964
47,0	36,0	1,3	30,00		63D4	2087
35,0	45,0	1,0	40,00		63D4	2298
28,0	54,0	0,8	50,00		63D4	2475



0.25 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
70,0	27,0	2,9	20,00	SW 050	63D4	2503
56,0	33,0	2,2	25,00	NMRV 050	63D4	2696
47,0	37,0	2,4	30,00		63D4	2865
35,0	46,0	1,8	40,00		63D4	3153
28,0	55,0	1,4	50,00		63D4	3397
23,0	61,0	1,2	60,00		63D4	3610
18,0	74,0	0,9	80,00		63D4	3973
70,0	27,0	2,9	20,00	SW 050	71A4	2503
56,0	33,0	2,2	25,00	NMRV 050	71A4	2696
47,0	37,0	2,4	30,00		71A4	2865
35,0	48,0	3,1	40,00	SW-P 063	71A4	4122
28,0	57,0	2,5	50,00	NMRV-P 063	71A4	4440
23,0	64,0	2,1	60,00		71A4	4719
18,0	79,0	1,5	80,00		71A4	5193
14,0	89,0	1,3	100,00		71A4	5595
23,0	68,0	3,2	60,00	SW-P 075	71A4	5569
18,0	83,0	2,3	80,00	NMRV-P 075	71A4	6130
14,0	96,0	1,9	100,00		71A4	6603
63,0	30,0	1,9	22,10	HA31+SW 040	63D4	1885
59,0	33,0	1,9	23,80	HA31+NMRV 040	63D4	1931
55,0	35,0	1,8	25,50		63D4	1977
48,0	39,0	1,5	29,40		63D4	2074
44,0	43,0	1,5	31,50		63D4	2122
39,0	48,0	1,4	35,60		63D4	2211
34,0	55,0	1,3	40,90		63D4	2315
32,0	55,0	1,1	44,20		63D4	2375
29,0	62,0	1,1	47,50		63D4	2433
26,0	70,0	1,0	54,50		63D4	2548
24,0	71,0	0,8	58,90		63D4	2614
22,0	81,0	0,9	63,00		63D4	2673
20,0	87,0	0,8	71,30		63D4	2785
59,0	33,0	2,2	23,80	HA31+SW 050	63D4	2650
55,0	35,0	2,1	25,50	HA31+NMRV 050	63D4	2714
48,0	40,0	2,9	29,40		63D4	2847
44,0	43,0	1,7	31,50		63D4	2912
39,0	48,0	2,2	35,60		63D4	3034
34,0	55,0	2,0	40,90		63D4	3177
32,0	56,0	2,0	44,20		63D4	3259
29,0	63,0	2,1	47,50		63D4	3339
26,0	72,0	1,8	54,50		63D4	3497
24,0	72,0	1,4	58,90		63D4	3587
22,0	83,0	1,6	63,00		63D4	3669
20,0	88,0	1,5	71,30		63D4	3823
18,0	103,0	1,3	78,80		63D4	3952
16,0	94,0	1,2	88,30		63D4	4107
15,0	115,0	1,2	94,50		63D4	4200
14,0	119,0	1,0	102,00		63D4	4308
13,0	126,0	0,9	109,10		63D4	4406
12,0	143,0	0,9	118,10		63D4	4524
11,0	140,0	0,8	127,50		63D4	4641
10,0	145,0	0,9	142,50		63D4	4816
9,0	147,0	0,8	154,70		63D4	4840
9,0	165,0	0,8	163,60		63D4	4840

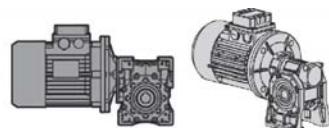


0.25 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
29,0	63,0	3,4	47,50	HW030+SW-P 063	63D4	4365
24,0	73,0	3,0	58,00	HW030+NMRV-P 063	63D4	4666
20,0	89,0	2,6	71,30		63D4	4997
18,0	93,0	2,4	77,30		63D4	5135
17,0	101,0	2,4	81,80		63D4	5233
16,0	96	2,3	88,30		63D4	5368
15,0	113,0	2,1	95,00		63D4	5500
13,0	128,0	1,9	109,10		63D4	5759
12,0	144,0	1,8	118,10		63D4	5914
10,0	153,0	1,5	136,40		63D4	6204
10,0	148,0	1,7	142,50		63D4	6270
9,0	181,0	1,5	157,50	HW030+SW-P 063	63D4	6270
9,0	168,0	1,6	163,60	HW030+NMRV-P 063	63D4	6270
8,0	156,0	1,2	176,70		63D4	6270
7,0	217,0	1,1	196,90		63D4	6270
6,0	206,0	1,2	218,20		63D4	6270
6,0	237,0	1,2	236,30		63D4	6270
5,0	239,0	1,0	272,70		63D4	6270
4,4	290,0	0,9	315,00		63D4	6270
3,6	336,0	0,7	393,8		63D4	6270
3,2	391,0	0,7	433,30		63D4	6270
16,0	100,0	3,4	88,30	HW030+SW-P 075	63D4/71A4	6336
15,0	116,0	3,5	95,00	HW030+NMRV-P 075	63D4/71A4	6491
13,0	132,0	3,2	109,10		63D4/71A4	6798
12,0	128,0	2,9	116,00		63D4/71A4	6938
10,0	158,0	2,2	136,40		63D4/71A4	7323
10,0	155,0	2,6	142,50		63D4/71A4	7380
9,0	158,0	2,3	154,70		63D4/71A4	7380
9,0	176,0	2,4	163,60		63D4/71A4	7380
8,0	165,0	1,9	176,70		63D4/71A4	7380
7,0	224,0	1,7	196,90		63D4/71A4	7380
6,0	216,0	1,9	218,20		63D4/71A4	7380
6,0	249,0	1,9	236,30		63D4/71A4	7380
5,0	249,0	1,5	272,70		63D4/71A4	7380
4,4	306,0	1,4	315,00		63D4/71A4	7380
3,6	349,0	1,1	393,80		63D4/71A4	7380
3,0	395,0	0,9	472,50		63D4/71A4	7380
9,0	162,0	3,2	155,30	HW040+SW-P 090	63D4/71A4	8180
8,0	182,0	2,5	186,30	HW040+NMRV-P 090	63D4/71A4	8180
6,0	229,0	2,9	220,00		63D4/71A4	8180
6,0	236,0	2,1	252,00		63D4/71A4	8180
5,0	269,0	2,2	275,00		63D4/71A4	8180
4,6	295,0	1,9	304,50		63D4/71A4	8180
4,2	301,0	1,7	330,00		63D4/71A4	8180
3,7	366,0	1,7	383,30		63D4/71A4	8180
3,2	414,0	1,6	437,50		63D4/71A4	8180
3,0	408,0	1,3	460,00		63D4/71A4	8180
2,7	462,0	1,2	525,00		63D4/71A4	8180
2,3	494,0	0,9	613,30		63D4/71A4	8180
2,0	560,0	0,8	700,00		63D4/71A4	8180
4,6	315,0	3,1	304,50	HW040+SW-P 110	63D4/71A4	10320
4,2	323,0	2,9	330,00	HW040+NMRV-P 110	63D4/71A4	10320
3,7	391,0	2,4	383,30		63D4/71A4	10320


0.25 kW

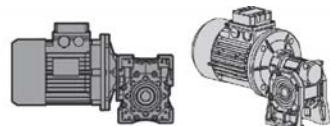
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
3,2	393,0	2,0	440,00	HW040+SW-P 110	63D4/71A4	10320
3,0	439,0	2,3	460,00	HW040+NMRV-P 110	63D4/71A4	10320
2,7	497,0	1,9	525,00		63D4/71A4	10320
2,3	535,0	1,5	613,30		63D4/71A4	10320
2,0	606,0	1,4	700,00		63D4/71A4	10320
1,8	605,0	1,1	766,70		63D4/71A4	10320
1,6	683,0	1,0	875,00		63D4/71A4	10320
14,0	112,0	1,2	100,00	SW 030/050	63D4	3800
9,0	155,0	0,9	150,00	NMRV 030/050	63D4	4350
14,0	112,0	1,3	100,00	SW/SW-P 030/063	63D4	4967
9,0	157,0	1,3	150,00	NMRV/NMRV-P 030/063	63D4	5686
7,0	198,0	1,3	200,00	SW/SW-P 030/063	63D4	6259
6,0	237,0	1,0	250,00	NMRV/NMRV-P 030/063	63D4	6270
4,7	244,0	1,0	300,00		63D4	6270
3,5	317,0	0,8	400,00		63D4	6270
14,0	115,0	1,2	100,00	SW 040/050	63D4	3800
9,0	159,0	0,9	150,00	NMRV 040/050	63D4	4350
14,0	115,0	2,2	100,00	SW/SW-P 040/063	63D4	4967
9,0	161,0	1,6	150,00	NMRV/NMRV-P 040/063	63D4	5686
7,0	203,0	1,2	200,00		63D4	6259
6,0	243,0	1,0	250,00		63D4	6270
4,7	265,0	1,0	300,00		63D4	6270
3,5	325,0	0,8	400,00		63D4	6270
14,0	116,0	3,0	100,00	SW/SW-P 040/075	63D4	5863
9,0	165,0	2,6	150,00	NMRV/NMRV-P 040/075	63D4	6712
7,0	209,0	2,0	200,00		63D4	7380
6,0	250,0	1,5	250,00		63D4	7380
4,7	278,0	1,6	300,00		63D4	7380
3,5	342,0	1,2	400,00		63D4	7380
2,8	391,0	0,9	500,00		63D4	7380
2,3	517,0	0,9	600,00		63D4	7380
1,9	622,0	0,7	750,00		63D4	7380
14,0	119,0	3,0	100,00	SW/SW-P 040/090	63D4	6487
9,0	170,0	3,0	150,00	NMRV/NMRV-P 040/090	63D4	7426
7,0	217,0	2,8	200,00		63D4	8174
6,0	261,0	2,2	250,00		63D4	8180
4,7	291,0	2,4	300,00		63D4	8180
3,5	359,0	1,7	400,00		63D4	8180
2,8	420,0	1,3	500,00		63D4	8180
2,3	542,0	1,3	600,00		63D4	8180
1,9	651,0	1,1	750,00		63D4	8180
1,6	730,0	1,0	900,00		63D4	8180
1,2	905,0	0,8	1200,00		63D4	8180
3,5	386,0	3,1	400,00	SW/SW-P 050/110	63D4	10320
2,8	512,0	2,3	500,00	NMRV/NMRV-P 050/110	63D4	10320
2,3	548,0	2,3	600,00		63D4	10320
1,9	660,0	1,9	750,00		63D4	10320
1,6	751,0	1,7	900,00		63D4	10320
1,2	932,0	1,4	1200,00		63D4/71A4	10320
0,9	1097,0	1,2	1500,00		63D4/71A4	10320
0,8	1234,0	1,0	1800,00		63D4/71A4	10320
0,6	1596,0	0,7	2400,00		63D4/71A4	10320


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
0.37 kW

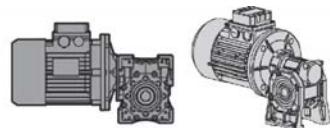
n2 [1/min]	M2 [Nm]	f.S.	i			Fr [N]
560,0	6,0	2,1	5,00	SW 030	63C2	474
373,0	8	1,6	7,50	NMRV 030	63C2	542
280,0	11,0	1,2	10,00		63C2	597
187,0	16,0	0,8	15,00		63C2	683
560,0	5,6	4,3	5,00	SW 040	63C2/71A2	912
373,0	8,0	3,3	7,50	NMRV 040	63C2/71A2	1044
280,0	11,0	2,6	10,00		63C2/71A2	1149
187,0	16,0	1,9	15,00		63C2/71A2	1315
140,0	21,0	1,4	20,00		63C2/71A2	1447
112,0	25,0	1,1	25,00		63C2/71A2	1559
93,0	29,0	1,2	30,00		63C2/71A2	1657
70,0	37,0	0,8	40,00		63C2/71A2	1824
280,0	11,0	3,2	5,00	SW 040	71B4	1149
187,0	16,0	2,5	7,50	NMRV 040	71B4	1315
140,0	21,0	2,1	10,00		71B4	1447
93,0	31,0	1,4	15,00		71B4	1657
70,0	40,0	1,1	20,00		71B4	1824
56,0	48,0	0,8	25,00		71B4	1964
47,0	54,0	0,9	30,00		71B4	2087
93,0	31,0	2,6	15,00	SW 050	71B4	2274
70,0	40,0	1,9	20,00	NMRV 050	71B4	2503
56,0	49,0	1,5	25,00		71B4	2696
47,0	55,0	1,6	30,00		71B4	2865
35,0	69,0	1,2	40,00		71B4	3153
28,0	81,0	1,0	50,00		71B4	3397
23,0	91,0	0,8	60,00		71B4	3610
56,0	50,0	2,7	25,00	SW-P 063	71B4	3524
47,0	57,0	2,8	30,00	NMRV-P 063	71B4	3745
35,0	72,0	2,1	40,00		71B4	4122
28,0	85,0	1,7	50,00		71B4	4440
23,0	95,0	1,4	60,00		71B4	4719
18,0	117,0	1,0	80,00		71B4	5193
14,0	131,0	0,9	100,00		71B4	5595
35,0	74,0	3,3	40,00	SW-P 075	71B4	4865
28,0	88,0	2,5	50,00	NMRV-P 075	71B4	5241
23,0	100,0	2,1	60,00		71B4	5569
18,0	123,0	1,6	80,00		71B4	6130
14,0	141,0	1,3	100,00		71B4	6603
36,0	77,0	3,1	25,00	SW-P 075	80A6	4820
30,0	87,0	3,3	30,00	NMRV-P 075	80A6	5122
23,0	108,0	2,6	40,00		80A6	5637
18,0	126,0	2,0	50,00		80A6	6073
15,0	146,0	1,7	60,00		80A6	6453
11,0	176,0	1,3	80,00		80A6	7103
9,0	200,0	1,0	100,00		80A6	7380
18,0	136,0	3,2	50,00	SW-P 090	80A6	6719
15,0	153,0	2,5	60,00	NMRV-P 090	80A6	7140
11,0	189,0	1,7	80,00		80A6	7859
9,0	216,0	1,3	100,00		80A6	8180
11,0	201,0	2,8	80,00	SW-P 110	80A6	9931
9,0	232,0	2,2	100,00	NMRV-P 110	80A6	10320


0.37 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
63,0	45,0	1,3	22,10	HA31+SW 040	71B4	1885
59,0	49,0	1,3	23,80	HA31+NMRV 040	71B4	1931
55,0	52,0	1,2	25,50		71B4	1977
48,0	58,0	1,0	29,40		71B4	2074
44,0	64,0	1,0	31,50		71B4	2122
39,0	71,0	0,9	35,60		71B4	2211
34,0	81,0	0,9	40,90		71B4	2315
32,0	82,0	0,8	44,20		71B4	2375
29,0	91,0	0,7	47,50		71B4	2433
63,0	45,0	2,2	22,10	HA31+SW 050	71B4	2587
59,0	49,0	1,5	23,80	HA31+NMRV 050	71B4	2650
55,0	52,0	1,4	25,50		71B4	2714
48,0	59,0	1,9	29,40		71B4	2847
44,0	64,0	1,2	31,50		71B4	2912
39,0	72,0	1,5	35,60		71B4	3034
34,0	82,0	1,3	40,90		71B4	3177
32,0	83,0	1,4	44,20		71B4	3259
29,0	93,0	1,4	47,50		71B4	3339
26,0	106,0	1,2	54,50		71B4	3497
24,0	106,0	1,0	58,90		71B4	3587
22,0	122,0	1,1	63,00		71B4	3669
20,0	130,0	1,0	71,30		71B4	3823
18,0	152,0	0,9	78,80		71B4	3952
16,0	140,0	0,8	88,30		71B4	4107
15,0	170,0	0,8	94,50		71B4	4200
48,0	60,0	3,4	29,00	HW030+SW-P 063	71B4	3703
36,0	76,0	2,7	38,70	HW030+NMRV-P 063	71B4	4076
32,0	84,0	2,4	44,20		71B4	4260
29,0	93,0	2,3	47,50		71B4	4365
24,0	108,0	2,0	58,00		71B4	4666
20,0	131,0	1,8	71,30		71B4	4997
18,0	138,0	1,6	77,30		71B4	5135
17,0	150,0	1,6	81,80		71B4	5233
16,0	142,0	1,5	88,30		71B4	5368
15,0	167,0	1,4	95,00		71B4	5500
13,0	190,0	1,3	109,10		71B4	5759
12,0	213,0	1,2	118,10		71B4	5914
10,0	227,0	1,0	136,40		71B4	6204
10,0	218,0	1,2	142,50		71B4	6270
9,0	269,0	1,0	157,50		71B4	6270
9,0	248,0	1,1	163,60		71B4	6270
8,0	232,0	0,8	176,70		71B4	6270
7,0	321,0	0,8	196,90		71B4	6270
6,0	305,0	0,8	218,2		71B4	6270
6,0	351,0	0,8	236,30		71B4	6270
29,0	94,0	3,4	47,50	HW030+SW-P 075	71B4	5152
24,0	111,0	3,1	58,00	HW030+NMRV-P 075	71B4	5507
20,0	135,0	2,8	71,30		71B4	5898
18,0	141,0	2,6	77,30		71B4	6061
17,0	154,0	2,5	81,80		71B4	6176
16,0	148,0	2,3	88,30		71B4	6336
15,0	171,0	2,4	95,00		71B4	6491
13,0	195,0	2,2	109,10		71B4	6798


0.37 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
12,0	190,0	2,0	116,00	HW030+SW-P 075	71B4	6938
10,0	234,0	1,5	136,40	HW030+NMRV-P 075	71B4	7323
10,0	229,0	1,8	142,50		71B4	7380
9,0	234,0	1,6	154,70		71B4	7380
9,0	260,0	1,6	163,60		71B4	7380
8,0	245,0	1,3	176,70		71B4	7380
7,0	331,0	1,2	196,90		71B4	7380
6,0	320,0	1,3	218,20		71B4	7380
6,0	368,0	1,3	236,30		71B4	7380
5,0	368,0	1,0	272,70		71B4	7380
4,4	452,0	1,0	315,00		71B4	7380
3,6	516,0	0,8	393,80		71B4	7380
13,0	204,0	3,2	110,00	HW040+SW-P 090	71B4	7542
11,0	214,0	3,1	126,00	HW040+NMRV-P 090	71B4	7892
10,0	245,0	2,6	137,50		71B4	8125
9,0	240,0	2,1	155,30		71B4	8180
8,0	274,0	2,6	165,00		71B4	8180
8,0	269,0	1,7	186,30		71B4	8180
6,0	339,0	2,0	220,00		71B4	8180
6,0	350,0	1,4	252,00		71B4	8180
5,0	398,0	1,5	275,00		71B4	8180
4,6	437,0	1,3	304,5		71B4	8180
4,2	445,0	1,2	330,00		71B4	8180
3,7	541,0	1,2	383,30		71B4	8180
3,2	613,0	1,0	437,50		71B4	8180
3,0	604,0	0,9	460,00		71B4	8180
2,7	684,0	0,8	525,00		71B4	8180
8,0	288,0	2,8	186,30	HW040+SW-P 110	71B4	10320
6,0	356,0	3,3	220,00	HW040+NMRV-P 110	71B4	10320
6,0	374,0	2,4	252,00		71B4	10320
5,0	424,0	2,5	275,00		71B4	10320
4,6	466,0	2,1	304,50		71B4	10320
4,2	478,0	2,0	330,00		71B4	10320
3,7	579,0	1,7	383,30		71B4	10320
3,2	581,0	1,3	440,00		71B4	10320
3,0	650,0	1,5	460,00		71B4	10320
2,7	736,0	1,3	525,00		71B4	10320
2,3	792,0	1,0	613,30		71B4	10320
2,0	897,0	0,9	700,00		71B4	10320
1,8	895,0	0,7	766,70		71B4	10320
14,0	169,0	1,5	100,00	SW/SW-P 040/063	71B4	4967
9,0	238,0	1,1	150,00	NMRV/NMRV-P 040/063	71B4	5686
7,0	300,0	0,8	200,00		71B4	6259
14,0	172,0	2,1	100,00	SW/SW-P 040/075	71B4	5863
9,0	245,0	1,7	150,00	NMRV/NMRV-P 040/075	71B4	6712
7,0	309,0	1,4	200,00		71B4	7380
6,0	370,0	1,0	250,00		71B4	7380
4,7	412,0	1,1	300,00		71B4	7380
3,5	506,0	0,8	400,00		71B4	7380
14,0	176,0	2,1	100,00	SW/SW-P 040/090	71B4	6487
9,0	251,0	2,1	150,00	NMRV/NMRV-P 040/090	71B4	7426
7,0	322,0	1,9	200,00		71B4	8174
6,0	386,0	1,5	250,00		71B4	8180


0.37 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
4,7	431,0	1,6	300,00	SW/SW-P 040/090	71B4	8180
3,5	532,0	1,1	400,00	NMRV/NMRV-P 040/090	71B4	8180
2,8	622,0	0,9	500,00		71B4	8180
2,3	802,0	0,9	600,00		71B4	8180
1,9	964,0	0,7	750,00		71B4	8180
14,0	180,0	3,3	100,00	SW/SW-P 050/090	71B4	6487
9,0	257,0	2,6	150,00	NMRV/NMRV-P 050/090	71B4	7426
7,0	329,0	1,9	200,00		71B4	8174
6,0	395,0	1,4	250,00		71B4	8180
4,7	441,0	1,6	300,00		71B4	8180
3,5	545,0	1,1	400,00		71B4	8180
2,8	727,0	0,8	500,00		71B4	8180
2,3	812,0	0,9	600,00		71B4	8180
1,9	977,0	0,7	750,00		71B4	8180
7,0	338,0	3,4	200,00	SW/SW-P 050/110	71B4	10320
6,0	412,0	2,8	250,00	NMRV/NMRV-P 050/110	71B4	10320
4,7	441,0	2,9	300,00		71B4	10320
3,5	571,0	2,1	400,00		71B4	10320
2,8	757,0	1,5	500,00		71B4	10320
2,3	812,0	1,6	600,00		71B4	10320
1,9	977,0	1,3	750,00		71B4	10320
1,6	1111,0	1,1	900,00		71B4	10320
1,2	1380,0	0,9	1200,00		71B4	10320
0,9	1623,0	0,8	1500,00		71B4	10320
7,0	338,0	3,4	200,00	SW-P 063/110	71B4	10320
6,0	412,0	2,8	250,00	NMRV-P 063/110	71B4	10320
4,7	441,0	2,9	300,00		71B4	10320
3,5	571,0	2,1	400,00		71B4	10320
2,8	776,0	1,5	500,00		71B4	10320
2,3	832,0	1,5	600,00		71B4	10320
1,9	1002,0	1,3	750,00		71B4	10320
1,6	1141,0	1,1	900,00		71B4	10320
1,2	1441,0	0,9	1200,00		71B4	10320
0,9	1699,0	0,7	1500,00		71B4	10320
3,5	571,0	2,9	400,00	SW-P/SW 063/130	71B4	13500
2,8	681,0	2,3	500,00	NMRV-P/NMRV 063/130	71B4	13500
2,3	844,0	2,1	600,00		71B4	13500
1,9	1017,0	1,7	750,00		71B4	13500
1,6	1158,0	1,5	900,00		71B4	13500
1,2	1462,0	1,2	1200,00		71B4	13500
0,9	1725,0	1,0	1500,00		71B4	13500
0,8	1946,0	0,9	1800,00		71B4	13500
2,8	681,0	3,4	500,00	SW-P/SW 063/150	71B4	18000
2,3	840,0	3,2	600,00	NMRV-P/NMRV 063/150	71B4	18000
1,9	986,0	2,4	750,00		71B4	18000
1,6	1244,0	1,7	900,00		71B4	18000
1,2	1499,0	1,8	1200,00		71B4	18000
0,9	1760,0	1,3	1500,00		71B4	18000
0,8	2089,0	1,0	1800,00		71B4	18000
0,6	2519,0	1,1	2400,00		71B4	18000
0,5	2958,0	0,8	3000,00		71B4	18000



0.55 kW

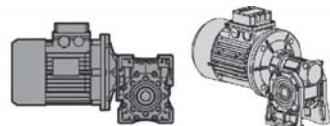
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
280,0	17,0	2,2	5,00	SW 040	71C4	1149
187,0	24,0	1,7	7,50	NMRV 040	71C4	1315
140,0	32,0	1,4	10,00		71C4	1447
93,0	47,0	0,9	15,00		71C4	1657
70,0	59,0	0,7	20,00		71C4	1824
187,0	25,0	3,1	7,50	SW 050	71C4	1805
140,0	33,0	2,4	10,00	NMRV 050	71C4	1987
93,0	47,0	1,7	15,00		71C4	2274
70,0	60,0	1,3	20,00		71C4	2503
56,0	72,0	1,0	25,00		71C4	2696
47,0	82,0	1,1	30,00		71C4	2865
35,0	102,0	0,8	40,00		71C4	3153
93,0	47,0	3,2	15,00	SW-P 063	71C4	2973
70,0	62,0	2,4	20,00	NMRV-P 063	71C4	3272
56,0	74,0	1,8	25,00		71C4	3524
47,0	84,0	1,9	30,00		71C4	3745
35,0	107,0	1,4	40,00		71C4	4122
28,0	126,0	1,1	50,00		71C4	4440
23,0	142,0	0,9	60,00		71C4	4719
18,0	174,0	0,7	80,00		71C4	5193
56,0	76,0	2,8	25,00	SW-P 075	71C4	4160
47,0	87,0	2,9	30,00	NMRV-P 075	71C4	4421
35,0	110,0	2,2	40,00		71C4	4865
28,0	131,0	1,7	50,00		71C4	5241
23,0	149,0	1,4	60,00		71C4	5569
18,0	183,0	1,1	80,00		71C4	6130
14,0	210,0	0,9	100,00		71C4	6603
35,0	114,0	3,5	40,00	SW-P 090	71C4/80A4	5383
28,0	137,0	2,7	50,00	NMRV-P 090	71C4/80A4	5799
23,0	158,0	2,2	60,00		71C4/80A4	6163
18,0	192,0	1,5	80,00		71C4/80A4	6783
14,0	225,0	1,2	100,00		71C4/80A4	7306
18,0	204,0	2,5	80,00	SW-P 110	71C4/80A4	8571
14,0	240,0	2,0	100,00	NMRV-P 110	71C4/80A4	9232
63,0	69,0	2,7	22,10	HW030+SW-P 063	71C4	3382
48,0	89,0	2,3	29	HW030+NMRV-P 063	71C4	3703
36,0	113,0	1,8	38,70		71C4	4076
32,0	125,0	1,6	44,20		71C4	4260
29,0	138,0	1,5	47,50		71C4	4365
24,0	161,0	1,4	58,00		71C4	4666
20,0	195,0	1,2	71,30		71C4	4997
18,0	205,0	1,1	77,30		71C4	5135
17,0	223,0	1,1	81,80		71C4	5233
16,0	211,0	1,0	88,30		71C4	5368
15,0	248,0	1,0	95,00		71C4	5500
13,0	282,0	0,9	109,10		71C4	5759
12,0	317,0	0,8	118,10		71C4	5914
10,0	325,0	0,8	142,50		71C4	6270
9,0	369,0	0,7	163,60		71C4	6270
48,0	89,0	3,2	29,00	HW030+SW-P 075	71C4	4371
36,0	115,0	2,6	38,70	HW030+NMRV-P 075	71C4	4811
32,0	128,0	2,5	44,20		71C4	5029
29,0	140,0	2,3	47,50		71C4	5152


0.55 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
24,0	165,0	2,1	58,00	HW030+SW-P 075	71C4	5507
20,0	200,0	1,9	71,30	HW030+NMRV-P 075	71C4	5898
18,0	210,0	1,8	77,30		71C4	6061
17,0	229,0	1,7	81,80		71C4	6176
16,0	221,0	1,6	88,30		71C4	6336
15,0	254,0	1,6	95,00		71C4	6491
13,0	290,0	1,5	109,10		71C4	6798
12,0	282,0	1,3	116,00		71C4	6938
10,0	347,0	1,0	136,40		71C4	7323
10,0	340,0	1,2	142,50		71C4	7380
9	347,0	1,1	154,70		71C4	7380
9,0	387,0	1,1	163,60		71C4	7380
8,0	363,0	0,8	176,70		71C4	7380
7,0	492,0	0,8	196,90		71C4	7380
6,0	476,0	0,9	218,20		71C4	7380
6,0	547,0	0,9	236,30		71C4	7380
22,0	183,0	3,4	63,00	HW040+SW-P 090	71C4	6264
18,0	213,0	2,4	77,60	HW040+NMRV-P 090	71C4	6715
17,0	235,0	2,5	84,00		71C4	6894
15,0	241,0	2,5	93,20		71C4	7136
13,0	303,0	2,1	110,00		71C4	7542
11,0	318,0	2,1	126,00		71C4	7892
10,0	364,0	1,7	137,50		71C4	8125
9,0	356,0	1,4	155,30		71C4	8180
8,0	408,0	1,8	165,00		71C4	8180
8,0	400,0	1,1	186,30		71C4	8180
6,0	504,0	1,3	220,00		71C4	8180
6,0	520,0	1,0	252,00		71C4	8180
5,0	592,0	1,0	275,00		71C4	8180
4,6	650,0	0,8	304,50		71C4	8180
4,2	662,0	0,8	330,00		71C4	8180
3,7	805,0	0,8	383,30		71C4	8180
2,7	1093,0	0,8	525,00	HW040+SW-P 110	71C4	10320
10,0	379,0	2,5	137,50	HW040+NMRV-P 110	71C4	10266
9,0	374,0	2,5	155,30		71C4	10320
8,0	414,0	2,6	168,00		71C4	10320
8,0	427,0	1,9	186,30		71C4	10320
6,0	529,0	2,2	220,00		71C4	10320
6,0	557,0	1,6	252,00		71C4	10320
5,0	630,0	1,7	275,00		71C4	10320
4,6	693,0	1,4	304,50		71C4	10320
4,2	710,0	1,3	330,00		71C4	10320
3,7	861,0	1,1	383,30		71C4	10320
3,2	864,0	0,9	440,00		71C4	10320
3,0	966,0	1,0	460,00		71C4	10320
14,0	255,0	1,4	100,00	SW/SW-P 040/075	71C4	5863
9,0	364,0	1,2	150,00	NMRV/NMRV-P 040/075	71C4	6712
7,0	459,0	0,9	200,00		71C4	7380
4,7	612,0	0,7	300,00		71C4	7380
14,0	261,0	1,4	100,00	SW/SW-P 040/090	71C4	6487
9,0	373,0	1,4	150,00	NMRV/NMRV-P 040/090	71C4	7426
7,0	478,0	1,3	200,00		71C4	8174
6,0	574,0	1,0	250,00		71C4	8180


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
0.55 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
4,7	641,0	1,1	300,00	SW/SW-P 040/090	71C4	8180
3,5	791,0	0,8	400,00	NMRV/NMRV-P 040/090	71C4	8180
14,0	268,0	2,2	100,00	SW/SW-P 050/090	71C4	6487
9,0	382,0	1,7	150,00	NMRV/NMRV-P 050/090	71C4	7426
7,0	490,0	1,2	200,00		71C4	8174
6,0	588,0	1,0	250,00		71C4	8180
4,7	656,0	1,1	300,00		71C4	8180
3,5	809,0	0,8	400,00		71C4	8180
14,0	268,0	2,4	100,00	SW/SW-P 050/110	71C4	8198
9,0	387,0	2,4	150,00	NMRV/NMRV-P 050/110	71C4	9384
7,0	503,0	2,3	200,00		71C4	10320
6,0	612,0	1,9	250,00		71C4	10320
4,7	656,0	1,9	300,00		71C4	10320
3,5	849,0	1,4	400,00		71C4	10320
2,8	1126,0	1,0	500,00		71C4	10320
2,3	1207,0	1,0	600,00		71C4	10320
1,9	1452,0	0,9	750,00		71C4	10320
1,6	1651,0	0,8	900,00		71C4	10320
9,0	387,0	3,1	150,00	SW-P 063/110	71C4	9384
7,0	503,0	2,3	200,00	NMRV-P 063/110	71C4	10320
6,0	612,0	1,9	250,00		71C4	10320
4,7	656,0	1,9	300,00		71C4	10320
3,5	849,0	1,4	400,00		71C4	10320
2,8	1154,0	1,0	500,00		71C4	10320
2,3	1237,0	1,0	600,00		71C4	10320
1,9	1489,0	0,8	750,00		71C4	10320
1,6	1697,0	0,7	900,00		71C4	10320
7,0	503,0	3,2	200,00	SW-P/SW 063/130	71C4	13500
6,0	612,0	2,5	250,00	NMRV-P/NMRV 063/130	71C4	13500
4,7	666,0	2,6	300,00		71C4	13500
3,5	849,0	1,9	400,00		71C4	13500
2,8	1012,0	1,5	500,00		71C4	13500
2,3	1255,0	1,4	600,00		71C4	13500
1,9	1512,0	1,2	750,00		71C4	13500
1,6	1722,0	1,0	900,00		71C4	13500
1,2	2174,0	0,8	1200,00		71C4	13500
6,0	612,0	3,3	250,00	SW-P/SW 063/150	71C4	18000
4,7	728,0	3,2	300,00	NMRV-P/NMRV 063/150	71C4	18000
3,5	862,0	3,1	400,00		71C4	18000
2,8	1012,0	2,3	500,00		71C4	18000
2,3	1248,0	2,1	600,00		71C4	18000
1,9	1465,0	1,6	750,00		71C4	18000
1,6	1849,0	1,1	900,00		71C4	18000
1,2	2229,0	1,2	1200,00		71C4	18000
0,9	2617,0	0,9	1500,00		71C4	18000
0,6	3744,0	0,7	2400,00		71C4	18000


0.75 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
560,0	12,0	2,1	5,00	SW 040	71C2	912
373,0	17,0	1,6	7,50	NMRV 040	71C2	1044
280,0	23,0	1,3	10,00		71C2	1149
187,0	33,0	1,0	15,00		71C2	1315
373,0	17,0	3,0	7,50	SW 050	71C2/80A2	1433
280,0	23,0	2,4	10,00	NMRV 050	71C2/80A2	1577
187,0	33,0	1,7	15,00		71C2/80A2	1805
140,0	42,0	1,2	20,00		71C2/80A2	1987
112,0	52,0	1,0	25,00		71C2/80A2	2140
93,0	59,0	1,1	30,00		71C2/80A2	2274
70,0	76,0	0,8	40,00		71C2/80A2	2503
280,0	23,0	3,0	5,00	SW 050	80B4	1577
187,0	34,0	2,3	7,50	NMRV 050	80B4	1805
140,0	45,0	1,8	10,00		80B4	1987
93,0	64,0	1,3	15,00		80B4	2274
70,0	82,0	1,0	20,00		80B4	2503
56,0	99,0	0,7	25,00		80B4	2696
47,0	112,0	0,8	30,00		80B4	2865
140,0	45,0	3,0	10,00	SW-P 063	80B4	2597
93,0	64,0	2,3	15,00	NMRV-P 063	80B4	2973
70,0	84,0	1,7	20,00		80B4	3272
56,0	101,0	1,3	25,00		80B4	3524
47,0	115,0	1,4	30,00		80B4	3745
35,0	145,0	1,0	40,00		80B4	4122
28,0	171,0	0,8	50,00		80B4	4440
93,0	66,0	3,5	15,00	SW-P 075	80B4	3509
70,0	85,0	2,8	20,00	NMRV-P 075	80B4	3862
56,0	104,0	2,1	25,00		80B4	4160
47,0	118,0	2,1	30,00		80B4	4421
35,0	149,0	1,6	40,00		80B4	4865
28,0	179,0	1,3	50,00		80B4	5241
23,0	203,0	1,1	60,00		80B4	5569
18,0	250,0	0,8	80,00		80B4	6130
35,0	156,0	2,5	40,00	SW-P 090	80B4	5383
28,0	187,0	2,0	50,00	NMRV-P 090	80B4	5799
23,0	215,0	1,6	60,00		80B4	6163
18,0	262,0	1,1	80,00		80B4	6783
14,0	307,0	0,9	100,00		80B4	7306
28,0	194,0	3,4	50,00	SW-P 110	80B4	7328
23,0	227,0	2,7	60,00	NMRV-P 110	80B4	7787
18,0	278,0	1,8	80,00		80B4	8571
14,0	328,0	1,5	100,00		80B4	9232
23,0	239,0	3,3	40,00	SW-P 110	90S6	7882
18,0	287,0	2,6	50,00	NMRV-P 110	90S6	8491
15,0	330,0	2,1	60,00		90S6	9023
11,0	408,0	1,4	80,00		90S6	9931
9,0	470,0	1,1	100,00		90S6	10320
11,0	414,0	2,1	80,00	SW 130	90S6	12989
9,0	478,0	1,6	100,00	NMRV 130	90S6	13500
63,0	92,0	1,1	22,10	HA31+SW 050	80B4	2587
59,0	99,0	0,7	23,80	HA31+NMRV 050	80B4	2650
48,0	120,0	1,0	29,40		80B4	2847
39,0	145,0	0,7	35,60		80B4	3034


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
0.75 kW

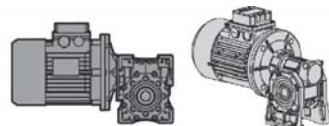
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
63,0	94,0	2,0	22,10	HW030+SW-P 063	80B4	3382
48,0	122,0	1,7	29,00	HW030+NMRV-P 063	80B4	3703
36,0	155,0	1,3	38,70		80B4	4076
32,0	170,0	1,2	44,20		80B4	4260
29,0	189,0	1,1	47,50		80B4	4365
24,0	219,0	1,0	58,00		80B4	4666
20,0	266,0	0,9	71,30		80B4	4997
18,0	279,0	0,8	77,30		80B4	5135
17,0	304,0	0,8	81,80		80B4	5233
16,0	288,0	0,8	88,30		80B4	5368
15,0	338,0	0,7	95,00		80B4	5500
63,0	93,0	2,8	22,10	HW030+SW-P 075	80B4	3991
48,0	121,0	2,3	29,00	HW030+NMRV-P 075	80B4	4371
36,0	157,0	1,9	38,70		80B4	4811
32,0	175,0	1,8	44,20		80B4	5029
29,0	191,0	1,7	47,50		80B4	5152
24,0	225,0	1,5	58,00		80B4	5507
20,0	273,0	1,4	71,30		80B4	5898
18,0	287,0	1,3	77,30		80B4	6061
17,0	312,0	1,3	81,80		80B4	6176
16,0	301,0	1,1	88,30		80B4	6336
15,0	347,0	1,2	95,00		80B4	6491
13,0	395,0	1,1	109,10		80B4	6798
12,0	384,0	1,0	116,00		80B4	6938
10,0	474,0	0,7	136,40		80B4	7323
10,0	464,0	0,9	142,50		80B4	7380
9,0	474,0	0,8	154,70		80B4	7380
9,0	528,0	0,8	163,60		80B4	7380
33,0	174,0	2,8	42,00	HW040+SW-P 090	80B4	5472
30,0	188,0	3,0	46,60	HW040+NMRV-P 090	80B4	5664
22,0	250,0	2,5	63,00		80B4	6264
18,0	290,0	1,8	77,60		80B4	6715
17,0	320,0	1,8	84,00		80B4	6894
15,0	329,0	1,8	93,20		80B4	7136
13,0	414,0	1,6	110,00		80B4	7542
11,0	433,0	1,5	126,00		80B4	7892
10,0	496,0	1,3	137,50		80B4	8125
9,0	486,0	1,1	155,30		80B4	8180
8,0	556,0	1,3	165,00		80B4	8180
8,0	546,0	0,8	186,30		80B4	8180
6,0	687,0	1,0	220,00		80B4	8180
6,0	709,0	0,7	252,00		80B4	8180
5,0	807,0	0,7	275,00		80B4	8180
33,0	174,0	2,8	42,00	HW040+SW-P 110	80B4	6914
18,0	302,0	3,2	77,60	HW040+NMRV-P 110	80B4	8485
17,0	329,0	2,8	84,00		80B4	8711
15,0	333,0	3,1	93,20		80B4	9017
13,0	400,0	2,8	105,00		80B4	9384
11,0	436,0	2,7	126,00		80B4	9972
10,0	517,0	1,8	137,50		80B4	10266
9,0	510,0	1,8	155,30		80B4	10320
8,0	564,0	1,9	168,00		80B4	10320
8,0	583,0	1,4	186,30		80B4	10320


0.75 kW

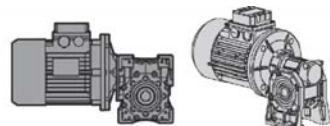
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
6,0	722,0	1,6	220,00	HW040+SW-P 110	80B4	10320
6,0	759,0	1,2	252,00	HW040+NMRV-P 110	80B4	10320
5,0	859,0	1,3	275,00		80B4	10320
4,6	945,0	1,0	304,50		80B4	10320
4,2	968	1,0	330,00		80B4	10320
3,7	1174,0	0,8	383,30		80B4	10320
3,0	1317,0	0,8	460,00		80B4	10320
14,0	365,0	1,6	100,00	SW/SW-P 050/090	80B4	6487
9,0	521,0	1,3	150,00	NMRV/NMRV-P 050/090	80B4	7426
7,0	668,0	0,9	200,00		80B4	8174
6,0	801,0	0,7	250,00		80B4	8180
4,7	895,0	0,8	300,00		80B4	8180
14,0	365,0	1,8	100,00	SW/SW-P 050/110	80B4	8198
9,0	527,0	1,8	150,00	NMRV/NMRV-P 050/110	80B4	9384
7,0	685,0	1,7	200,00		80B4	10320
6,0	835,0	1,4	250,00		80B4	10320
4,7	895,0	1,4	300,00		80B4	10320
3,5	1157,0	1,0	400,00		80B4	10320
2,8	1535,0	0,8	500,00		80B4	10320
2,3	1645,0	0,8	600,00		80B4	10320
14,0	365,0	3,0	100,00		80B4	8198
9,0	527,0	2,3	150,00		80B4	9384
7,0	685,0	1,7	200,00		80B4	10320
6,0	835,0	1,4	250,00		80B4	10320
4,7	895,0	1,4	300,00		80B4	10320
3,5	1157,0	1,0	400,00		80B4	10320
2,8	1573,0	0,7	500,00		80B4	10320
2,3	1686,0	0,8	600,00		80B4	10320
14,0	369,0	3,0	100,00	SW-P/SW 063/130	80B4	10722
9,0	521,0	3,0	150,00	NMRV-P/NMRV 063/130	80B4	12274
7,0	685,0	2,3	200,00		80B4	13500
6,0	835,0	1,8	250,00		80B4	13500
4,7	908,0	1,9	300,00		80B4	13500
3,5	1157,0	1,4	400,00		80B4	13500
2,8	1380,0	1,1	500,00		80B4	13500
2,3	1712,0	1,0	600,00		80B4	13500
1,9	2061,0	0,9	750,00		80B4	13500
1,6	2348,0	0,7	900,00		80B4	13500
7,0	685,0	3,0	200,00	SW-P/SW 063/150	80B4	18000
6,0	835,0	2,5	250,00	NMRV-P/NMRV 063/150	80B4	18000
4,7	993,0	2,3	300,00		80B4	18000
3,5	1175,0	2,3	400,00		80B4	18000
2,8	1380,0	1,7	500,00		80B4	18000
2,3	1702,0	1,6	600,00		80B4	18000
1,9	1998,0	1,2	750,00		80B4	18000
1,6	2521,0	0,8	900,00		80B4	18000
1,2	3039,0	0,9	1200,00		80B4	18000


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
1.10 kW

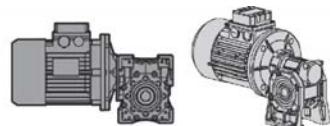
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
280,0	33,0	2,0	5,00	SW 050	80D4	1577
187,0	50,0	1,6	7,50	NMRV 050	80D4	1805
140,0	65,0	1,2	10,00		80D4	1987
93,0	93,0	0,9	15,00		80D4	2274
187,0	50,0	2,6	7,50	SW-P 063	80D4	2359
140,0	65,0	2,1	10,00	NMRV-P 063	80D4	2597
93,0	95,0	1,6	15,00		80D4	2973
70,0	123,0	1,2	20,00		80D4	3272
56,0	148,0	0,9	25,00		80D4	3524
47,0	169,0	0,9	30,00		80D4	3745
140,0	66,0	3,0	10,00	SW-P 075	80D4	3065
93,0	97,0	2,4	15,00	NMRV-P 075	80D4	3509
70,0	125,0	1,9	20,00		80D4	3862
56,0	152,0	1,4	25,00		80D4	4160
47,0	173,0	1,4	30,00		80D4	4421
35,0	219,0	1,1	40,00		80D4	4865
28,0	263,0	0,9	50,00		80D4	5241
23,0	297,0	0,7	60,00		80D4	5569
70,0	128,0	3,1	20,00	SW-P 090	80D4	4273
56,0	156,0	2,4	25,00	NMRV-P 090	80D4	4603
47,0	178,0	2,4	30,00		80D4	4891
35,0	228,0	1,7	40,00		80D4	5383
28,0	274,0	1,4	50,00		80D4	5799
23,0	315,0	1,1	60,00		80D4	6163
18,0	384,0	0,7	80,00		80D4	6783
35,0	237,0	3,0	40,00	SW-P 110	80D4	6803
28,0	285,0	2,3	50,00	NMRV-P 110	80D4	7328
23,0	333,0	1,8	60,00		80D4	7787
18,0	408,0	1,3	80,00		80D4	8571
14,0	480,0	1,0	100,00		80D4	9232
18,0	414,0	2,0	80,00	SW 130	90S4	11210
14,0	488,0	1,5	100,00	NMRV 130	90S4	12076
63,0	138,0	1,4	22,10	HW030+SW-P 063	80D4	3382
48,0	179,0	1,1	29,00	HW030+NMRV-P 063	80D4	3703
36,0	227,0	0,9	38,70		80D4	4076
32,0	250,0	0,8	44,20		80D4	4260
29,0	277,0	0,8	47,50		80D4	4365
63,0	136,0	1,9	22,10	HW030+SW-P 075	80D4	3991
48,0	178,0	1,6	29,00	HW030+NMRV-P 075	80D4	4371
36,0	230,0	1,3	38,70		80D4	4811
32,0	256,0	1,2	44,20		80D4	5029
29,0	280,0	1,1	47,50		80D4	5152
24,0	330,0	1,1	58,00		80D4	5507
20,0	401,0	0,9	71,30		80D4	5898
18,0	421,0	0,9	77,30		80D4	6061
17,0	457,0	0,9	81,80		80D4	6176
16,0	441,0	0,8	88,30		80D4	6336
15,0	509,0	0,8	95,00		80D4	6491
13,0	579,0	0,7	109,10		80D4	6798
60,0	145,0	2,8	23,30	HW040+SW-P 090	80D4	4495
45,0	191,0	2,6	31,10	HW040+NMRV-P 090	80D4	4948
33,0	255,0	1,9	42,00		80D4	5472
30,0	276,0	2,0	46,60		80D4	5664
22,0	366,0	1,7	63,00		80D4	6264


1.10 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
18,0	426,0	1,2	77,60	HW040+SW-P 090	80D4	6715
17,0	470,0	1,3	84,00	HW040+NMRV-P 090	80D4	6894
15,0	483,0	1,2	93,20		80D4	7136
13,0	607,0	1,1	110,00		80D4	7542
11,0	635,0	1,0	126,00		80D4	7892
10,0	728,0	0,9	137,50		80D4	8125
9,0	712,0	0,7	155,30		80D4	8180
8,0	816,0	0,9	165,00		80D4	8180
60,0	147,0	2,8	23,30	HW040+SW-P 110	80D4	5680
45,0	191,0	2,8	31,10	HW040+NMRV-P 110	80D4	6252
33,0	255,0	1,9	42,00		80D4	6914
30,0	279,0	2,8	46,60		80D4	7157
23,0	363,0	2,5	62,10		80D4	7877
18,0	443,0	2,2	77,60		80D4	8485
17,0	482,0	1,9	84,00		80D4	8711
15,0	489,0	2,1	93,20		80D4	9017
13,0	587,0	1,9	105,00		80D4	9384
11,0	639,0	1,9	126,00		80D4	9972
10,0	758,0	1,2	137,50		80D4	10266
9,0	748,0	1,2	155,30		80D4	10320
8,0	828,0	1,3	168,00		80D4	10320
8,0	855,0	1,0	186,30		80D4	10320
6,0	1059,0	1,1	220,00		80D4	10320
6,0	1113,0	0,8	252,00		80D4	10320
5,0	1260,0	0,9	275,00		80D4	10320
4,6	1386,0	0,7	304,50		80D4	10320
14,0	535,0	1,1	100,00	SW/SW-P 050/090	80D4	6487
9,0	764,0	0,9	150,00	NMRV/NMRV-P 050/090	80D4	7426
14,0	535,0	1,2	100,00	SW/SW-P 050/110	80D4	8198
9,0	774,0	1,2	150,00	NMRV/NMRV-P 050/110	80D4	9384
7,0	1005,0	1,1	200,00		80D4	10320
6,0	1224,0	1,0	250,00		80D4	10320
4,7	1312,0	1,0	300,00		80D4	10320
14,0	535,0	2,1	100,00		80D4	8198
9,0	774,0	1,5	150,00		80D4	9384
7,0	1005,0	1,1	200,00		80D4	10320
6,0	1224,0	1,0	250,00		80D4	10320
4,7	1312,0	1,0	300,00		80D4	10320
14,0	542,0	2,1	100,00	SW-P/SW 063/130	80D4	10722
9,0	764,0	2,1	150,00	NMRV-P/NMRV 063/130	80D4	12274
7,0	1005,0	1,6	200,00		80D4	13500
6,0	1224,0	1,2	250,00		80D4	13500
4,7	1332,0	1,3	300,00		80D4	13500
3,5	1697,0	1,0	400,00		80D4	13500
2,8	2024,0	0,8	500,00		80D4	13500
2,3	2510,0	0,7	600,00		80D4	13500
9,0	771,0	2,6	150,00	SW-P/SW 063/150	80D4	18000
7,0	1005,0	2,1	200,00	NMRV-P/NMRV 063/150	80D4	18000
6,0	1224,0	1,7	250,00		80D4	18000
4,7	1456,0	1,6	300,00		80D4	18000
3,5	1723,0	1,5	400,00		80D4	18000
2,8	2024,0	1,2	500,00		80D4	18000
2,3	2496,0	1,1	600,00		80D4	18000
1,9	2931,0	0,8	750,00		80D4	18000


1.50 kW

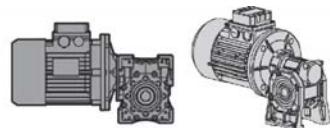
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
560,0	23,0	1,9	5,00	SW 050	80C2	1251
373,0	35,0	1,5	7,50	NMRV 050	80C2	1433
280,0	46,0	1,2	10,00		80C2	1577
187,0	66,0	0,9	15,00		80C2	1805
373,0	35,0	2,7	7,50	SW-P 063	80C2	1873
280,0	46,0	2,2	10,00	NMRV-P 063	80C2	2061
187,0	67,0	1,6	15,00		80C2	2359
140,0	87,0	1,2	20,00		80C2	2597
112,0	106,0	0,9	25,00		80C2	2797
93,0	121,0	1,0	30,00		80C2	2973
70,0	156,0	0,7	40,00		80C2	3272
187,0	68,0	1,9	7,50	SW-P 063	90LA4	2359
140,0	89,0	1,5	10,00	NMRV-P 063	90LA4	2597
93,0	129,0	1,2	15,00		90LA4	2973
70,0	168,0	0,9	20,00		90LA4	3272
187,0	68,0	2,7	7,50	SW-P 075	90LA4	2785
140,0	90,0	2,2	10,00	NMRV-P 075	90LA4	3065
93,0	132,0	1,7	15,00		90LA4	3509
70,0	170,0	1,4	20,00		90LA4	3862
56,0	207,0	1,0	25,00		90LA4	4160
47,0	236,0	1,0	30,00		90LA4	4421
35,0	299,0	0,8	40,00		90LA4	4865
93,0	134,0	3,0	15,00	SW-P 090	90LA4	3882
70,0	174,0	2,2	20,00	NMRV-P 090	90LA4	4273
56,0	212,0	1,8	25,00		90LA4	4603
47,0	243,0	1,8	30,00		90LA4	4891
35,0	311,0	1,3	40,00		90LA4	5383
28,0	374,0	1,0	50,00		90LA4	5799
23,0	430,0	0,8	60,00		90LA4	6163
56,0	218,0	3,1	25,00	SW-P 110	90LA4	5816
47,0	246,0	3,0	30,00	NMRV-P 110	90LA4	6181
35,0	323,0	2,2	40,00		90LA4	6803
28,0	389,0	1,7	50,00		90LA4	7328
23,0	455,0	1,4	60,00		90LA4	7787
18,0	557,0	0,9	80,00		90LA4	8571
14,0	655,0	0,7	100,00		90LA4	9232
23,0	458,0	2,1	60,00	SW 130	90LA4	10185
18,0	565,0	1,5	80,00	NMRV 130	90LA4	11210
14,0	665,0	1,1	100,00		90LA4	12076
18,0	589,0	2,7	50,00	SW 150	100LA6	15182
15,0	678,0	2,1	60,00	NMRV 150	100LA6	16133
11,0	841,0	1,5	80,00		100LA6	17757
9,0	971,0	1,2	100,00		100LA6	18000
60,0	198,0	2,1	23,30	HW040+SW-P 090	90LA4	4495
45,0	261,0	1,9	31,10	HW040+NMRV-P 090	90LA4	4948
33,0	348,0	1,4	42,00		90LA4	5472
30,0	376,0	1,5	46,60		90LA4	5664
22,0	499,0	1,2	63,00		90LA4	6264
18,0	581,0	0,9	77,60		90 LM	6715
17,0	640,0	0,9	84,00		90LA4	6894
15,0	658,0	0,9	93,20		90LA4	7136
13,0	827,0	0,8	110,00		90LA4	7542
11,0	866,0	0,8	126,00		90LA4	7892


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
1.50 kW

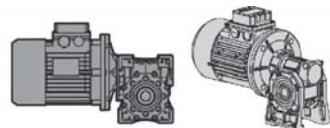
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
60,0	200,0	2,1	23,30	HW040+SW-P 110	90LA4	5680
45,0	261,0	2,1	31,10	HW040+NMRV-P 110	90LA4	6252
33,0	348,0	1,4	42,00		90LA4	6914
30,0	381,0	2,1	46,60		90LA4	7157
23,0	495,0	1,8	62,10		90LA4	7877
18,0	604,0	1,6	77,60		90LA4	8485
17,0	657,0	1,4	84,00		90LA4	8711
15,0	666,0	1,6	93,20		90LA4	9017
13,0	800,0	1,4	105,00		90LA4	9384
11,0	872,0	1,4	126,00		90LA4	9972
10,0	1034,0	0,9	137,50		90LA4	10266
9,0	1020,0	0,9	155,30		90LA4	10320
8,0	1129,0	1,0	168,00		90LA4	10320
6,0	1444,0	0,8	220,00		90LA4	10320
14,0	730,0	1,5	100,00	SW/SW-P 063/110	90LA4	8198
9,0	1055,0	1,1	150,00	NMRV/NMRV-P 063/110	90LA4	9384
7,0	1371,0	0,8	200,00		90LA4	10320
6,0	1669,0	0,7	250,00		90LA4	10320
4,7	1789,0	0,7	300,00		90LA4	10320
14,0	739,0	1,5	100,00	SW/SW-P 063/130	90LA4	10722
9,0	1042,0	1,5	150,00	NMRV/NMRV-P 063/130	90LA4	12274
7,0	1371,0	1,2	200,00		90LA4	13500
6,0	1669,0	0,9	250,00		90LA4	13500
4,7	1816,0	1,0	300,00		90LA4	13500
3,5	2315,0	0,7	400,00		90LA4	13500
9,0	1052,0	1,9	150,00	SW/SW-P 063/150	90LA4	18000
7,0	1371,0	1,5	200,00	NMRV/NMRV-P 063/150	90LA4	18000
6,0	1669,0	1,2	250,00		90LA4	18000
4,7	1985,0	1,2	300,00		90LA4	18000
3,5	2350,0	1,1	400,00		90LA4	18000
2,8	2760,0	0,8	500,00		90LA4	18000
2,3	3404,0	0,8	600,00		90LA4	18000

1.85 kW

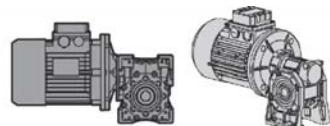
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	64,0	1,5	7,50	SW-P 063	90LB4	2359
140,0	110,0	1,2	10,00	NMRV-P 063	90LB4	2597
93,0	159,0	0,9	15,00		90LB4	2973
70,0	207,0	0,7	20,00		90LB4	3272
187,0	84,0	2,2	7,50	SW-P 075	90LB4	2785
140,0	111,0	1,8	10,00	NMRV-P 075	90LB4	3065
93,0	163,0	1,4	15,00		90LB4	3509
70,0	210,0	1,1	20,00		90LB4	3862
56,0	256,0	0,8	25,00		90LB4	4160
47,0	292,0	0,8	30,00		90LB4	4421
140,0	112,0	3,0	10,00	SW-P 090	90LB4	3391
93,0	165,0	2,4	15,00	NMRV-P 090	90LB4	3882
70,0	215,0	1,8	20,00		90LB4	4273


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
1.85 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
56,0	262,0	1,4	25,00	SW-P 090	90LB4	4603
47,0	299,0	1,4	30,00	NMRV-P 090	90LB4	4891
35,0	384,0	1,0	40,00		90LB4	5383
28,0	461,0	0,8	50,00		90LB4	5799
70,0	217,0	3,0	20,00	SW-P 110	90LB4	5399
56,0	268,0	2,5	25,00	NMRV-P 110	90LB4	5816
47,0	303,0	2,4	30,00		90LB4	6181
35,0	399,0	1,8	40,00		90LB4	6803
28,0	480	1,4	50,00		90LB4	7328
23,0	561,0	1,1	60,00		90LB4	7787
18,0	687,0	0,7	80,00		90LB4	8571
47,0	306	3,4	30,00	SW 130	90LB4	8084
35,0	398	2,6	40,00	NMRV 130	90LB4	8897
28,0	479	2,1	50,00		90LB4	9584
23,0	552	1,6	60,00		90LB4	10185
18,0	697,0	1,2	80,00		90LB4	11210
14,0	821,0	0,9	100,00		90LB4	12076
60,0	244	1,7	23,30	HW040+SW-P 090	90LB4	4495
45,0	321,0	1,5	31,10	HW040+NMRV-P 090	90LB4	4948
33,0	429,0	1,1	42,00		90LB4	5472
30,0	464,0	1,2	46,60		90LB4	5664
22,0	616,0	1,0	63,00		90LB4	6264
18,0	716,0	0,7	77,60		90LB4	6715
17,0	790,0	0,7	84,00		90LB4	6894
15,0	812,0	0,7	93,20		90LB4	7136
60,0	247,0	1,7	23,30	HW040+SW-P 110	90LB4	5680
45,0	321,0	1,7	31,10	HW040+NMRV-P 110	90LB4	6252
33,0	429,0	1,1	42,00		90LB4	6914
30,0	470,0	1,7	46,60		90LB4	7157
23,0	611,0	1,5	62,10		90LB4	7877
18,0	745	1,3	77,60		90LB4	8485
17,0	810,0	1,1	84,00		90LB4	8711
15,0	822,0	1,3	93,20		90LB4	9017
13,0	987,0	1,1	105,00		90LB4	9384
11,0	1075,0	1,1	126,00		90LB4	9972
10,0	1275,0	0,7	137,50		90LB4	10266
9,0	1258,0	0,7	155,30		90LB4	10320
8,0	1392,0	0,8	168,00		90LB4	10320
14,0	900,0	1,2	100,00	SW/SW-P 063/110	90LB4	8198
9,0	1301,0	0,9	150,00	SW/SW-P 063/130	90LB4	9384
14,0	911,0	1,2	100,00	NMRV/NMRV-P 063/130	90LB4	10722
9,0	1285,0	1,2	150,00		90LB4	12274
7,0	1691,0	0,9	200,00		90LB4	13500
6,0	2059,0	0,7	250,00		90LB4	13500
4,7	2240,0	0,8	300,00		90LB4	13500
9,0	1297,0	1,5	150,00	SW/SW-P 063/150	90LB4	18000
7,0	1691,0	1,2	200,00	NMRV/NMRV-P 063/150	90LB4	18000
6,0	2059,0	1,0	250,00		90LB4	18000
4,7	2449	0,9	300,00		90LB4	18000
3,5	2898,0	0,9	400,00		90LB4	18000


2.20 kW

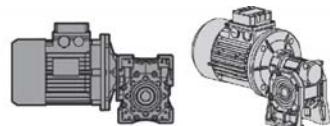
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
373,0	51,0	1,8	7,50	SW-P 063	90L2	1873
280,0	67,0	1,5	10,00	NMRV-P 063	90L2	2061
187,0	98,0	1,1	15,00		90L2	2359
140,0	128,0	0,8	20,00		90L2	2597
373,0	51,0	2,6	7,50	SW-P 075	90L2	2210
280,0	68,0	2,2	10,00	NMRV-P 075	90L2	2433
187,0	99,0	1,7	15,00		90L2	2785
140,0	129,0	1,3	20,00		90L2	3065
112,0	158,0	1,0	25,00		90L2	3302
93,0	182,0	1,0	30,00		90L2	3509
70,0	234,0	0,8	40,00		90L2	3862
187,0	100,0	1,8	7,50	SW-P 075	100LA4	2785
140,0	132,0	1,5	10,00	NMRV-P 075	100LA4	3065
93,0	194,0	1,2	15,00		100LA4	3509
70,0	249,0	0,9	20,00		100LA4	3862
56,0	304,0	0,7	25,00		100LA4	4160
47,0	347,0	0,7	30,00		100LA4	4421
187,0	101,0	3,1	7,50	SW-P 090	100LA4	3081
140,0	134,0	2,6	10,00	NMRV-P 090	100LA4	3391
93,0	196,0	2,0	15,00		100LA4	3882
70,0	255,0	1,5	20,00		100LA4	4273
56,0	312,0	1,2	25,00		100LA4	4603
47,0	356,0	1,2	30,00		100LA4	4891
35,0	456,0	0,9	40,00		100LA4	5383
93,0	196,0	3,3	15,00	SW-P 110	100LA4	4905
70,0	258,0	2,5	20,00	NMRV-P 110	100LA4	5399
56,0	319,0	2,1	25,00		100LA4	5816
47,0	360,0	2,0	30,00		100LA4	6181
35,0	474,0	1,5	40,00		100LA4	6803
28,0	571,0	1,2	50,00		100LA4	7328
23,0	667,0	0,9	60,00		100LA4	7787
56,0	319,0	2,9	25,00	SW 130	100LA4	7607
47,0	365,0	2,9	30,00	NMRV 130	100LA4	8084
35,0	474,0	2,2	40,00		100LA4	8897
28,0	571,0	1,7	50,00		100LA4	9584
23,0	658,0	1,4	60,00		100LA4	10185
18,0	829,0	1,0	80,00		100LA4	11210
14,0	976,0	0,8	100,00	SW 130	100LA4	12076
36,0	485,0	2,2	25,00	NMRV 130	112MA6	8814
30,0	554,0	2,1	30,00		112MA6	9366
23,0	710,0	1,5	40,00		112MA6	10309
18,0	852,0	1,2	50,00		112MA6	11105
15,0	981,0	1,0	60,00		112MA6	11801
11,0	1214,0	0,7	80,00		112MA6	12989
28,0	578,0	2,4	50,00	SW 150	100LA4	13103
23,0	667,0	1,9	60,00	NMRV 150	100LA4	13924
18,0	829,0	1,4	80,00		100LA4	15325
14,0	976,0	1,0	100,00		100LA4	16508
18,0	864,0	1,9	50,00	SW 150	112MA6	15182
15,0	995,0	1,4	60,00	NMRV 150	112MA6	16133
11,0	1233,0	1,1	80,00		112MA6	17757
9,0	1425,0	0,8	100,00		112MA6	18000


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
3.00 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	137,0	1,4	7,50	SW-P 075	100LB4	2785
140,0	180,0	1,1	10,00	NMRV-P 075	100LB4	3065
93,0	264,0	0,9	15,00		100LB4	3509
187,0	138,0	2,3	7,50	SW-P 090	100LB4	3081
140,0	182,0	1,9	10,00	NMRV-P 090	100LB4	3391
93,0	267,0	1,5	15,00		100LB4	3882
70,0	348,0	1,1	20,00		100LB4	4273
56,0	425,0	0,9	25,00		100LB4	4603
47,0	485,0	0,9	30,00		100LB4	4891
140,0	182,0	3,3	10,00	SW-P 110	100LB4	4285
93,0	267,0	2,5	15,00	NMRV-P 110	100LB4	4905
70,0	352,0	1,8	20,00		100LB4	5399
56,0	435,0	1,6	25,00		100LB4	5816
47,0	491,0	1,5	30,00		100LB4	6181
35,0	647,0	1,1	40,00		100LB4	6803
28,0	778,0	0,8	50,00		100LB4	7328
56,0	435,0	2,1	25,00	SW 130	100LB4	7607
47,0	497,0	2,1	30,00	NMRV 130	100LB4	8084
35,0	647,0	1,6	40,00		100LB4	8897
28,0	778,0	1,3	50,00		100LB4	9584
23,0	897,0	1,0	60,00		100LB4	10185
18,0	1130,0	0,7	80,00		100LB4	11210
28,0	788,0	1,8	50,00	SW 150	100LB4	13103
23,0	909,0	1,4	60,00	NMRV 150	100LB4	13924
18,0	1130,0	1,0	80,00		100LB4	15325
14,0	1331,0	0,8	100,00		100LB4	16508

4.00 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
373,0	93,0	1,4	7,50	SW-P 075	100LB2/112MA2	2210
280,0	123,0	1,2	10,00	NMRV-P 075	100LB2/112MA2	2433
187,0	180,0	0,9	15,00		100LB2/112MA2	2785
140,0	235,0	0,7	20,00		100LB2/112MA2	3065
373,0	94,0	2,2	7,50	SW-P 090	100LB2/112MA2	2446
280,0	123,0	1,9	10,00	NMRV-P 090	100LB2/112MA2	2692
187,0	182,0	1,5	15,00		100LB2/112MA2	3081
140,0	240,0	1,1	20,00		100LB2/112MA2	3391
112,0	293,0	0,9	25,00		100LB2/J12MA2	3653
93,0	340,0	0,9	30,00		100LB2/112MA2	3882
187,0	184,0	1,7	7,50	SW-P 090	112MA4	3081
140,0	243,0	1,4	10,00	NMRV-P 090	112MA4	3391
93,0	356,0	1,1	15,00		112MA4	3882
70,0	464,0	0,8	20,00		112MA4	4273
187,0	184,0	3,0	7,50	SW-P 110	112MA4	3893
140,0	243,0	2,5	10,00	NMRV-P 110	112MA4	4285
93,0	356,0	1,8	15,00		112MA4	4905
70,0	470,0	1,4	20,00		112MA4	5399
56,0	580,0	1,2	25,00		112MA4	5816
47,0	655,0	1,1	30,00		112MA4	6181
35,0	863,0	0,8	40,00		112MA4	6803

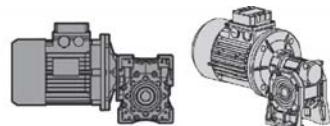


4.00 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
56,0	580,0	1,6	25,00	SW 130	112MA4	7607
47,0	663,0	1,6	30,00	NMRV 130	112MA4	8084
35,0	863,0	1,2	40,00		112MA4	8897
28,0	1037,0	0,9	50,00		112MA4	9584
23,0	1196,0	0,8	60,00		112MA4	10185
120,0	287,0	3,1	7,50	SW 130	132MA6	5901
90,0	374,0	2,6	10,00	NMRV 130	132MA6	6494
60,0	541,0	2,0	15,00		132MA6	7434
45,0	722,0	1,4	20,00		132MA6	8182
36,0	881,0	1,2	25,00		132MA6	8814
30,0	1006,0	1,2	30,00		132MA6	9366
23,0	1291,0	0,9	40,00		132MA6	10309
28,0	1051,0	1,3	50,00	SW 150	112MA4	13103
23,0	1212,0	1,0	60,00	NMRV 150	112MA4	13924
18,0	1507,0	0,8	80,00		112MA4	15325
45,0	722,0	2,1	20,00	SW 150	132MA6	11186
36,0	892,0	1,5	25,00	NMRV 150	132MA6	12050
30,0	1045,0	1,3	30,00		132MA6	12805
23,0	1291,0	1,4	40,00		132MA6	14094
18,0	1571,0	1,0	50,00		132MA6	15182
15,0	1809,0	0,8	60,00		132MA6	16133

4.80 kW

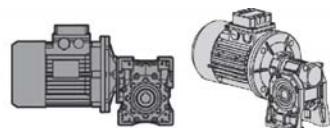
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	221,0	1,4	7,50	SW-P 090	112MB4	3081
140,0	292,0	1,2	10,00	NMRV-P 090	112MB4	3391
93,0	427,0	0,9	15,00		112MB4	3882
70,0	557,0	0,7	20,00		112MB4	4273
187,0	221,0	2,5	7,50	SW-P 110	112MB4	3893
140,0	292,0	2,1	10,00	NMRV-P 110	112MB4	4285
93,0	427,0	1,5	15,00		112MB4	4905
70,0	563,0	1,1	20,00		112MB4	5399
56,0	696,0	1,0	25,00		112MB4	5816
47,0	786,0	0,9	30,00		112MB4	6181
56,0	696,0	1,3	25,00	SW 130	112MB4	7607
47,0	796,0	1,3	30,00	NMRV 130	112MB4	8084
35,0	1035,0	1,0	40,00		112MB4	8897
28,0	1245,0	0,8	50,00		112MB4	9584
28,0	1261,0	1,1	50,00	SW 150	112MB4	13103
23,0	1454,0	0,9	60,00	NMRV 150	112MB4	13924


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
5.50 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	253,0	2,2	7,50	SW-P 110	132S4	3893
140,0	334,0	1,8	10,00	NMRV-P 110	132S4	4285
93,0	490,0	1,3	15,00		132S4	4905
70,0	646,0	1,0	20,00		132S4	5399
56,0	798,0	0,9	25,00		132S4	5816
47,0	901,0	0,8	30,00		132S4	6181
187,0	256,0	2,9	7,50	SW 130	132S4	5092
140,0	334,0	2,5	10,00	NMRV 130	132S4	5605
93,0	490,0	1,9	15,00		132S4	6416
70,0	653,0	1,4	20,00		132S4	7062
56,0	798,0	1,2	25,00		132S4	7607
47,0	912,0	1,1	30,00		132S4	8084
35,0	1186,0	0,9	40,00		132S4	8897
120,0	394,0	2,2	7,50	SW 130	132MB6	5901
90,0	514,0	1,9	10,00	NMRV 130	132MB6	6494
60,0	744,0	1,4	15,00		132MB6	7434
45,0	993,0	1,0	20,00		132MB6	8182
36,0	1212,0	0,9	25,00		132MB6	8814
30,0	1384,0	0,8	30,00		132MB6	9366
70,0	653,0	2,0	20,00	SW 150	132S4	9654
56,0	798,0	1,5	25,00	NMRV 150	132S4	10400
47,0	946,0	1,3	30,00		132S4	11051
35,0	1186,0	1,3	40,00		132S4	12163
28,0	1445,0	1,0	50,00		132S4	13103
23,0	1667,0	0,8	60,00		132S4	13924
45,0	993,0	1,5	20,00		132MB6	11186
36,0	1226,0	1,1	25,00		132MB6	12050
30,0	1436,0	1,0	30,00		132MB6	12805
23,0	1775,0	1,0	40,00		132MB6	14094
18,0	2160,0	0,7	50,00		132MB6	15182

7.50 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	345,0	1,6	7,50	SW-P 110	132MA4	3893
140,0	456,0	1,3	10,00	NMRV-P 110	132MA4	4285
93,0	668,0	1,0	15,00		132MA4	4905
70,0	880,0	0,7	20,00		132MA4	5399
187,0	349,0	2,1	7,50	SW 130	132MA4	5092
140,0	456,0	1,8	10,00	NMRV 130	132MA4	5605
93,0	668,0	1,4	15,00		132MA4	6416
70,0	891,0	1,0	20,00		132MA4	7062
56,0	1088,0	0,9	25,00		132MA4	7607
47,0	1244,0	0,8	30,00		132MA4	8084
70,0	891,0	1,5	20,00	SW 150	132MA4	9654
56,0	1088,0	1,1	25,00	NMRV 150	132MA4	10400
47,0	1290,0	0,9	30,00		132MA4	11051
35,0	1617,0	1,0	40,00		132MA4	12163
28,0	1971,0	0,7	50,00		132MA4	13103


SW/SW-P/NMRV/NMRV-P Performance / 馬達選擇表-渦輪減速機
摩 托 迪 克
7.50 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
120,0	537,0	2,6	7,50	SW 150	160M6	8067
90,0	709,0	2,1	10,00	NMRV 150	160M6	8878
60,0	1039,0	1,4	15,00		160M6	10163
45,0	1354,0	1,1	20,00		160M6	11186
36,0	1672,0	0,8	25,00		160M6	12050

9.20 kW

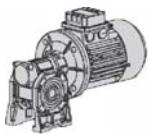
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	424,0	1,3	7,50	SW-P 110	132MB4	3893
140,0	559,0	1,1	10,00	NMRV-P 110	132MB4	4285
93,0	819,0	0,8	15,00		132MB4	4905
187,0	429,0	1,8	7,50	SW 130	132MB4	5092
140,0	559,0	1,5	10,00	NMRV 130	132MB4	5605
93,0	819,0	1,1	15,00		132MB4	6416
70,0	1092,0	0,8	20,00		132MB4	7062
70,0	1092,0	1,2	20,00	SW 150	132MB4	9654
56,0	1334,0	0,9	25,00	NMRV 150	132MB4	10400
47,0	1582,0	0,8	30,00		132MB4	11051
35,0	1984,0	0,8	40,00		132MB4	12163

11.00 kW

n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	507,0	1,1	7,50	SW-P 110	132MC4	3893
140,0	668,0	0,9	10,00	NMRV-P 110	132MC4	4285
187,0	512,0	1,5	7,50	SW 130	132MC4	5092
140,0	668,0	1,2	10,00	NMRV 130	132MC4	5605
93,0	980,0	0,9	15,00		132MC4	6416
70,0	1306,0	1,0	20,00	SW 150	132MC4/160S4	9654
56,0	1595,0	0,8	25,00	NMRV 150	132MC4/160S4	10400
120,0	788,0	1,8	7,50	SW 150	160L6	8067
90,0	1039,0	1,4	10,00	NMRV 150	160L6	8878
60,0	1524,0	1,0	15,00		160L6	10163
45,0	1985,0	0,8	20,00		160L6	11186
187,0	512,0	2,3	7,50	SW 150	160S4	6962
140,0	676,0	1,8	10,00	NMRV 150	160S4	7663
93,0	991,0	1,3	15,00		160S4	8771

15.00 kW

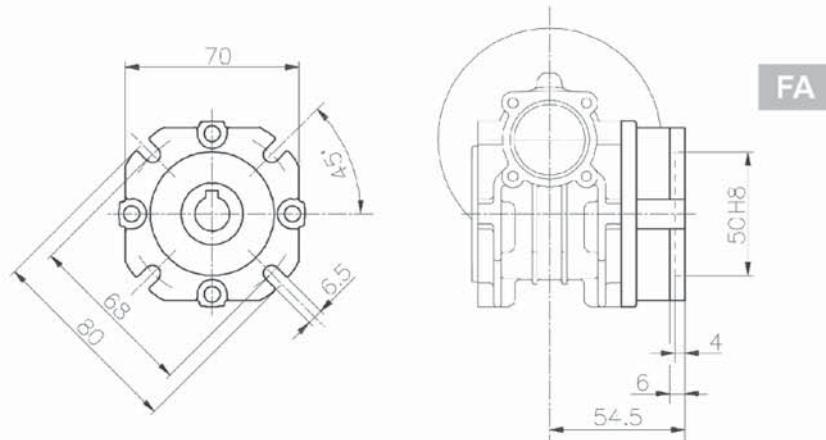
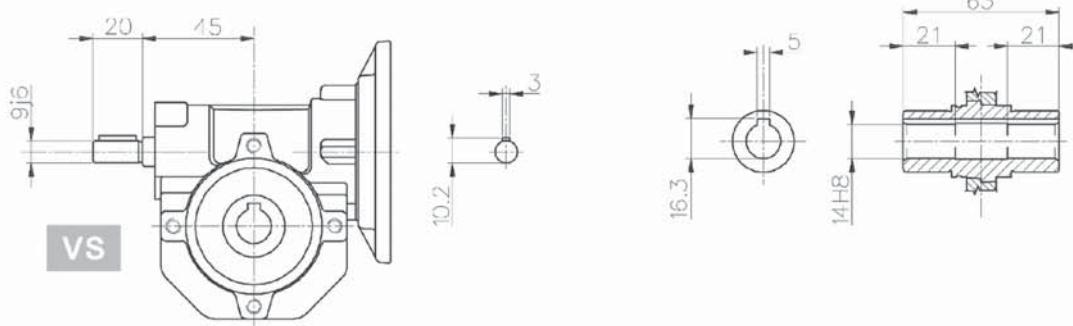
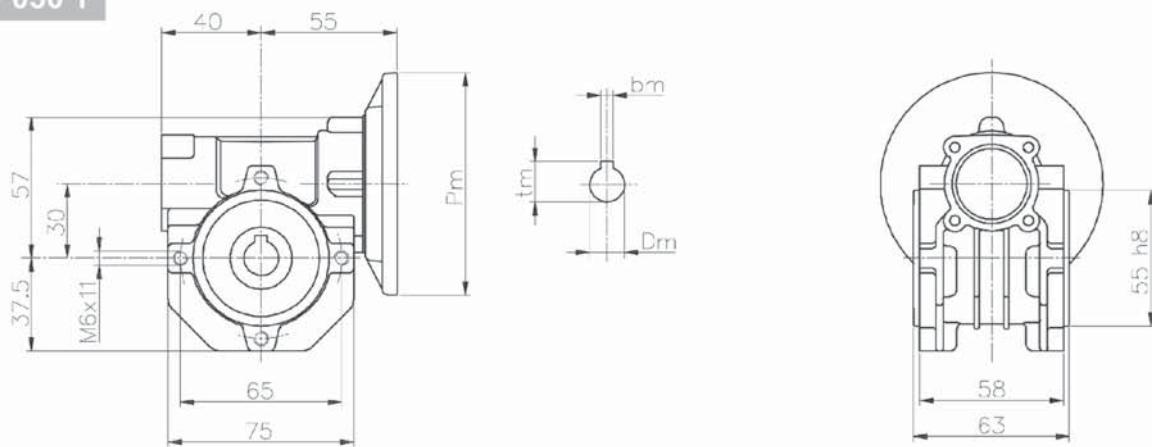
n2 [1/min]	M2 [Nm]	f.S.	i			Fr2 [N]
187,0	699,0	1,7	7,50	SW 150	160L4	6962
140,0	921,0	1,3	10,00	NMRV 150	160L4	7663
93,0	1351,0	0,9	15,00		160L4	8771
70,0	1781,0	0,7	20,00		160L4	9654



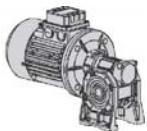
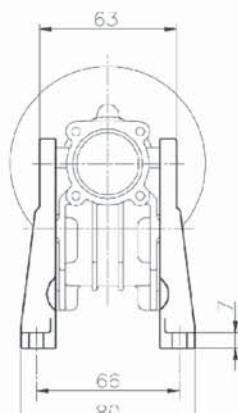
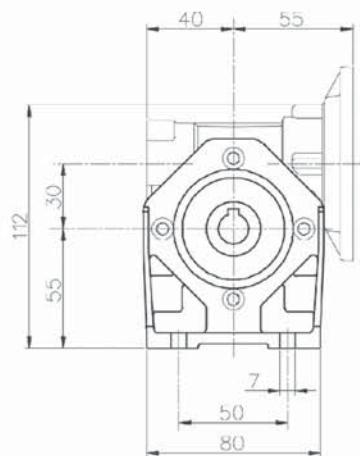
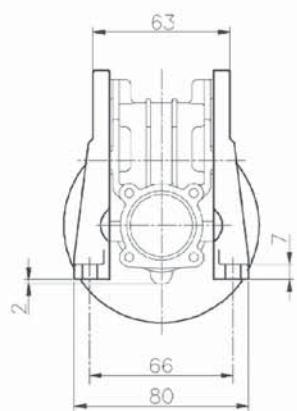
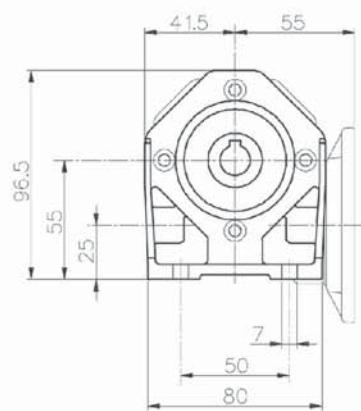
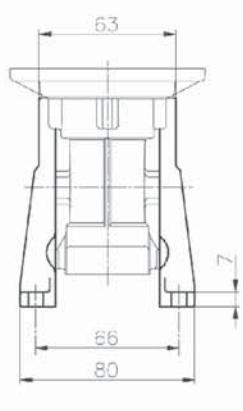
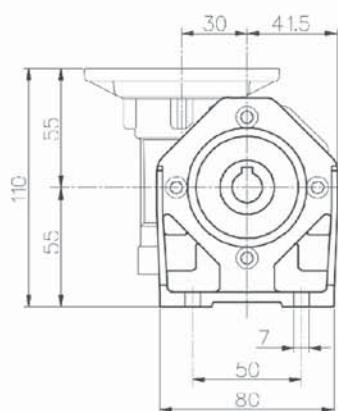
030 | Dimensions / 尺寸圖

摩 托 迪 克

SW 030 T

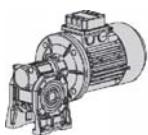


- 附扭力臂請參考 B69-70
- Weight without motor ~1.2 kg
- 重量不包含馬達~1.2kg


030 | Dimensions / 尺寸圖
摩 托 迪 克

SW 030 PA

SW 030 PB

SW 030 PV

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

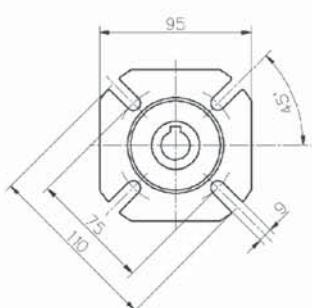
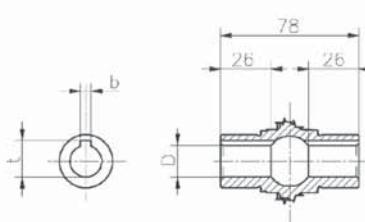
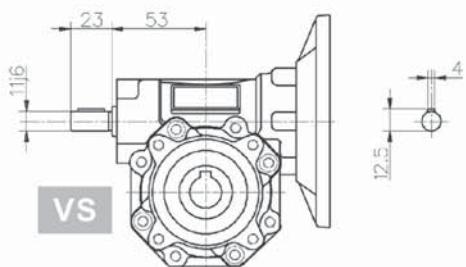
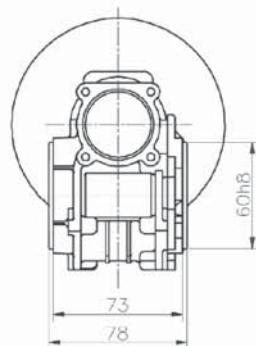
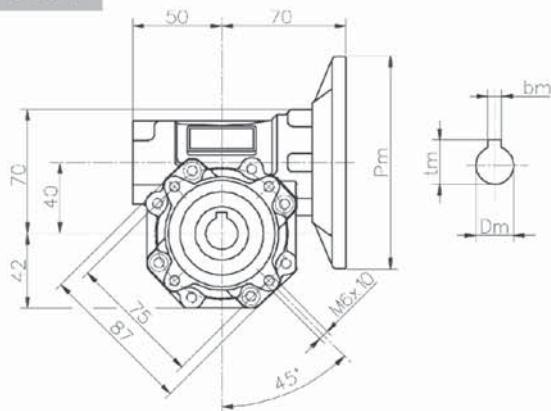
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考第A19。



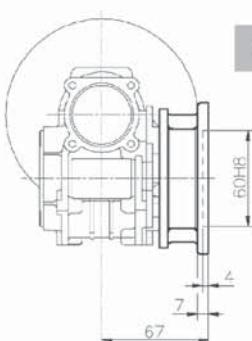
040 | Dimensions / 尺寸圖

摩 托 迪 克

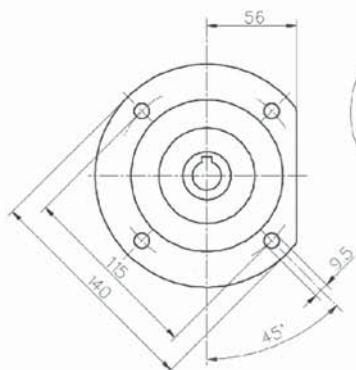
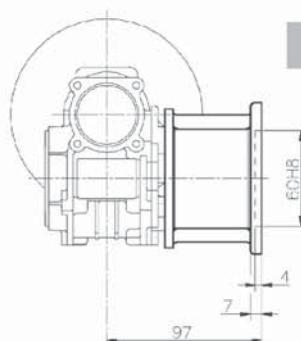
SW 040 T



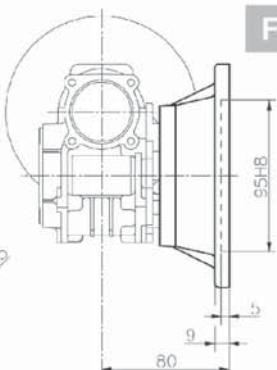
FA



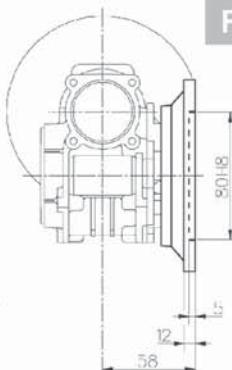
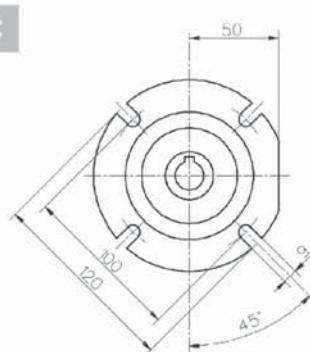
FB



FC



FD



出力軸心：

Uscita / Output / Abtrieb / Sortie / Salida

D H8	b	t
18	6	20,8
(19)	(6)	(21,8)

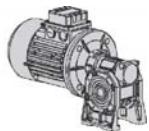
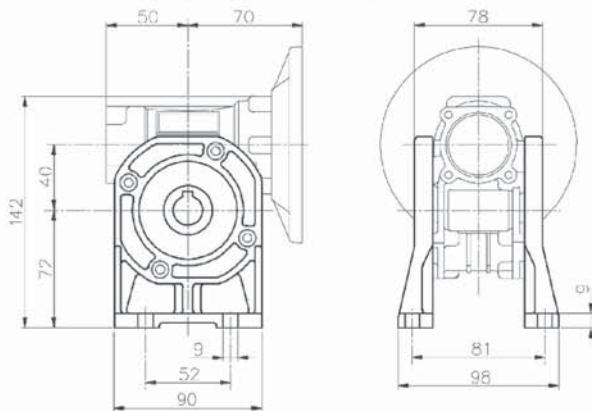
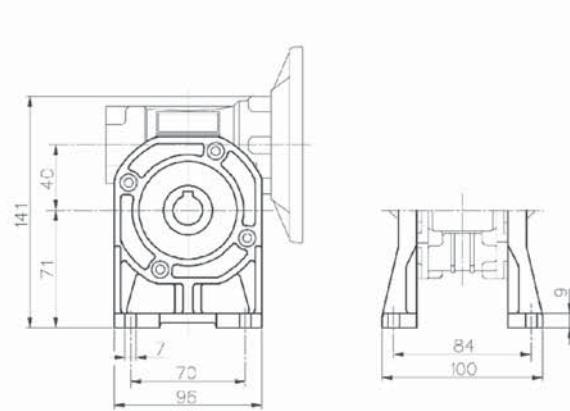
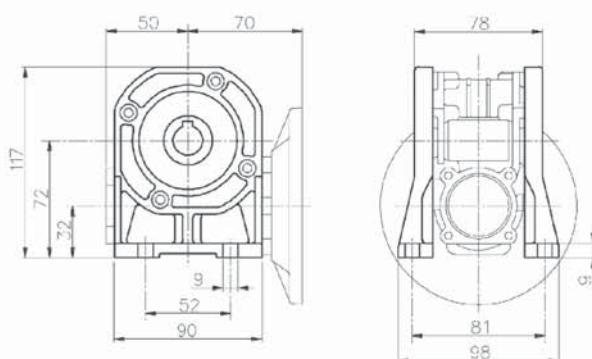
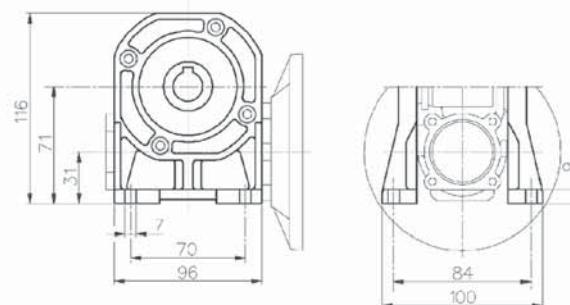
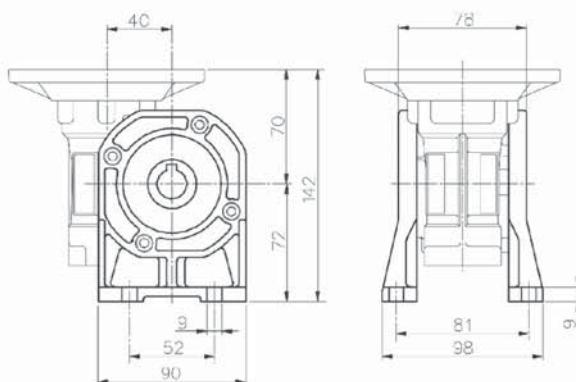
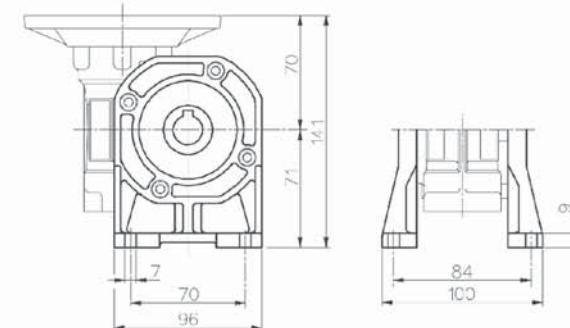
(..) Only on request

()括弧內尺寸依要求

- 附扭力臂請參考 B69-70

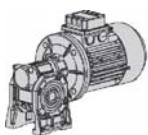
- Weight without motor ~2.3 kg

- 重量不包含馬達~2.3kg


040 Dimensions / 尺寸圖
摩 托 迪 克
SW 040 PA

SW 040 PAS

SW 040 PB

SW 040 PBS

SW 040 PV

SW 040 PVS


For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

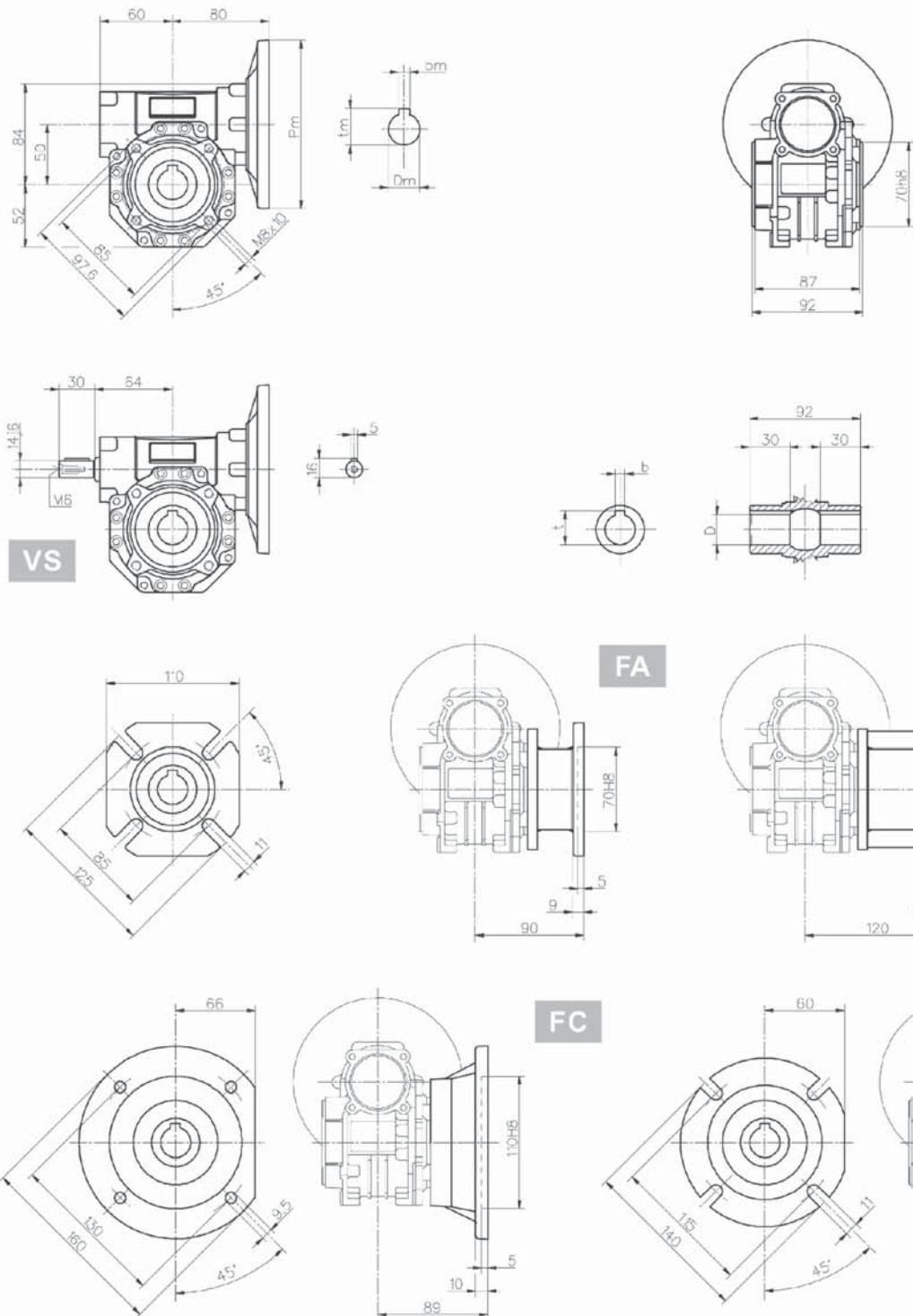
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考第A19。



050 | Dimensions / 尺寸圖

摩 托 迪 克

SW 050 T



出力軸心：

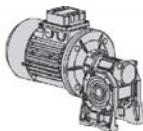
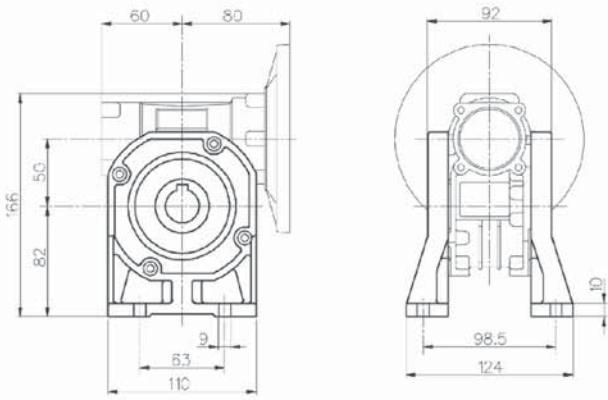
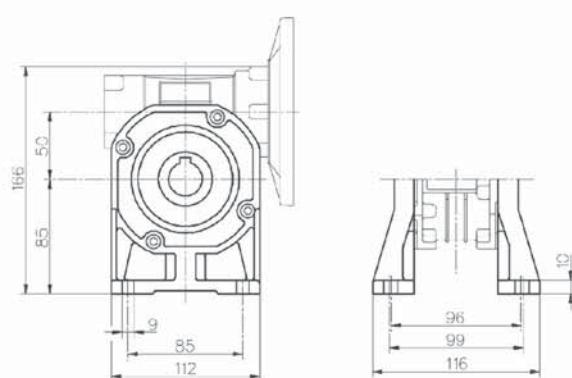
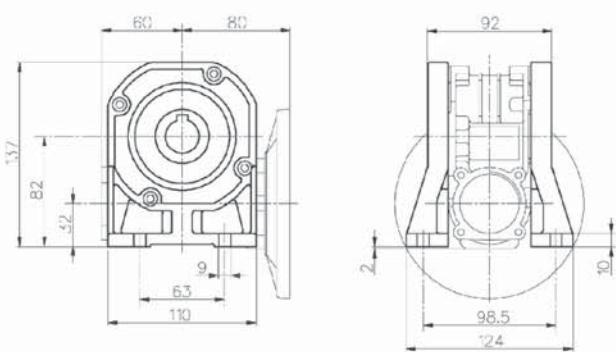
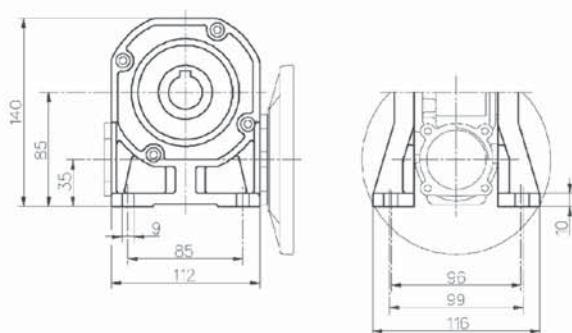
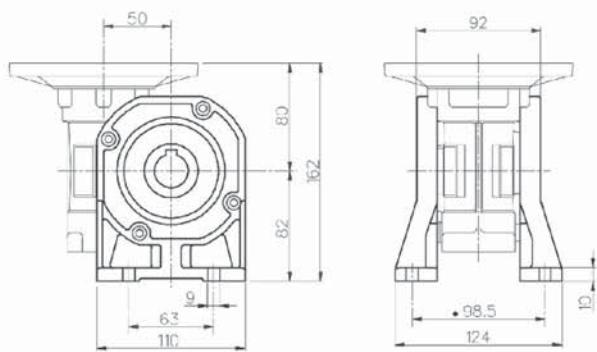
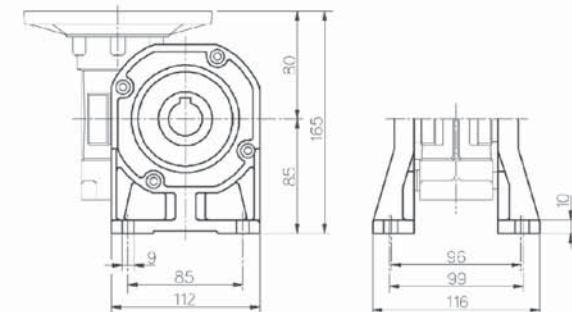
Uscita / Output / Abtrieb / Sortie / Salida		
D H8	b	t
25 (24)	8 (8)	28,3 (27,3)

(..) Only on request

()括弧內尺寸依要求
- 附扭力臂請參考 B69-70

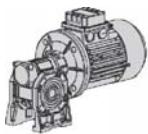
- Weight without motor ~3.5 kg

- 重量不包含馬達~3.5kg


050 Dimensions / 尺寸圖
摩 托 迪 克
SW 050 PA

SW 050 PAS

SW 050 PB

SW 050 PBS

SW 050 PV

SW 050 PVS


For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

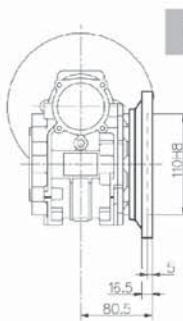
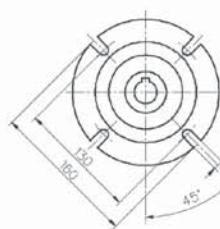
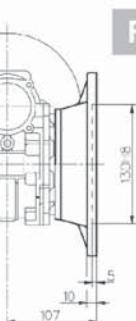
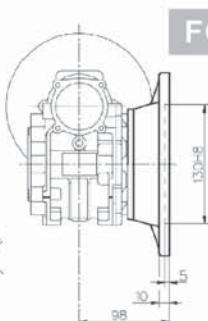
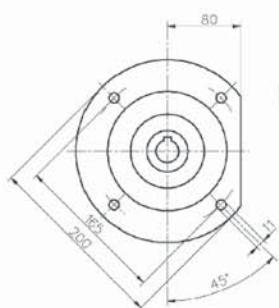
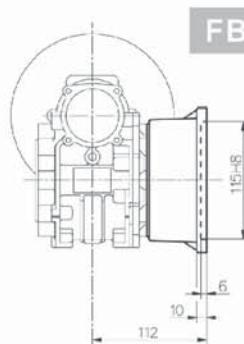
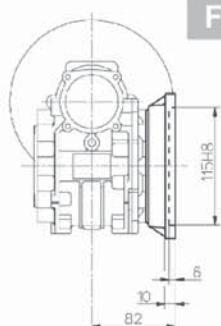
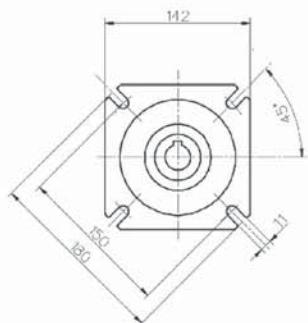
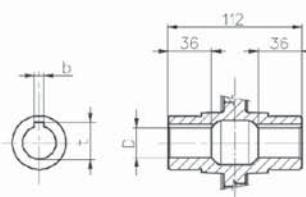
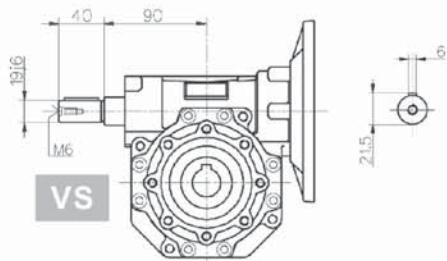
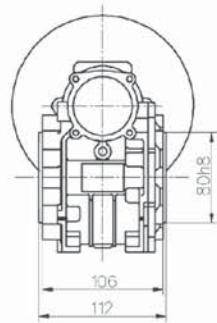
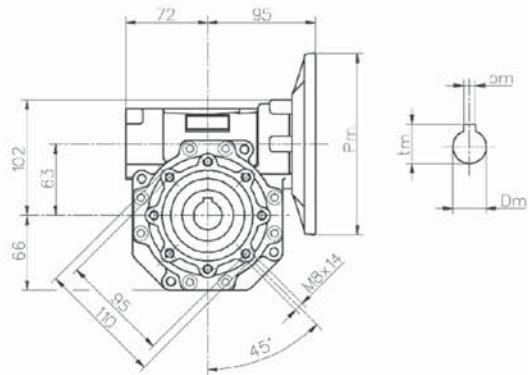
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考第A19。



063 | Dimensions / 尺寸圖

摩 托 迪 克

SW 063 T



出力軸心 :

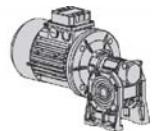
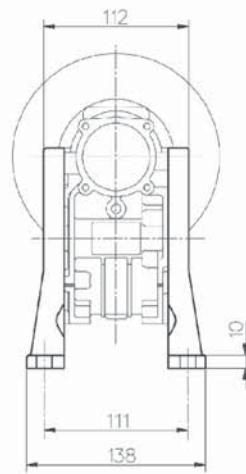
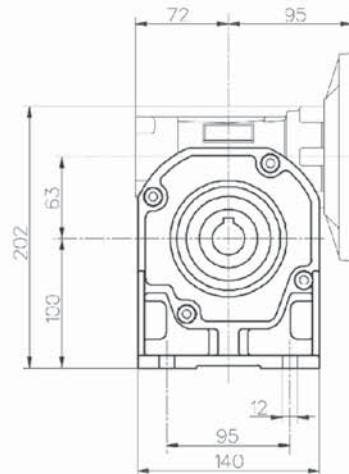
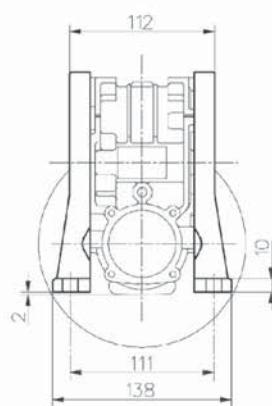
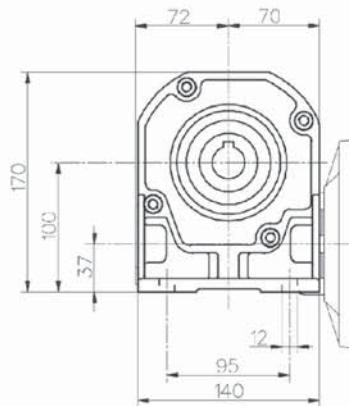
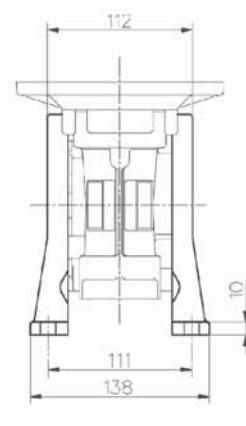
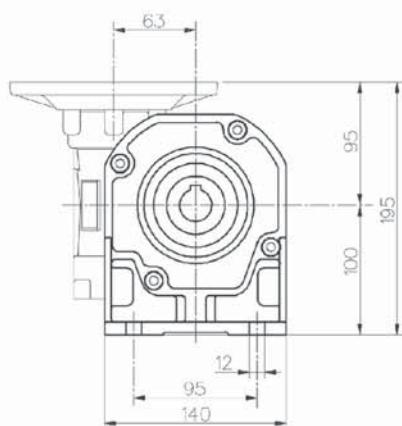
D H8	b	t
25	8	28,3
(28)	(8)	(31,3)

(..) Only on request

()括弧內尺寸依要求
- 附扭力臂請參考 B69-70

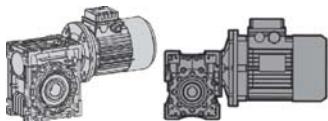
- Weight without motor ~6.2 kg

- 重量不包含馬達~6.2kg


P063 Dimensions / 尺寸圖
摩 托 迪 克

SW 063 PA

SW 063 PB

SW 063 PV

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

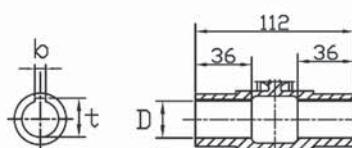
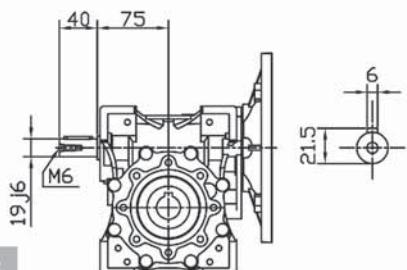
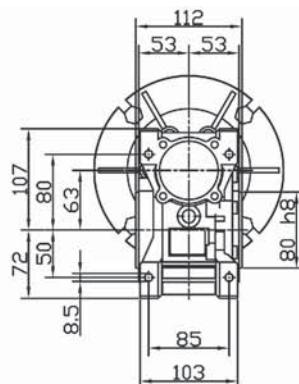
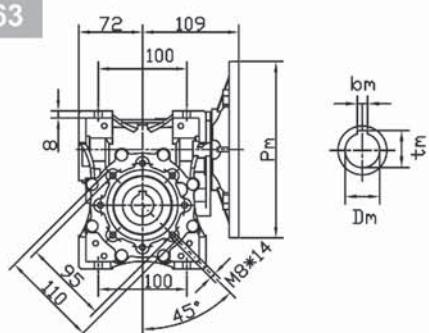
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考A19.



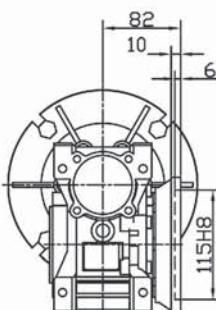
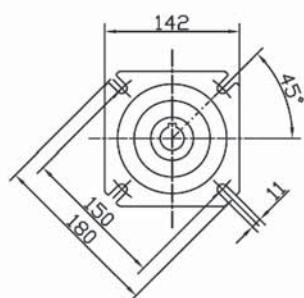
P063 Dimensions / 尺寸圖

摩 托 迪 克

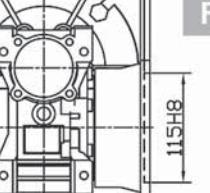
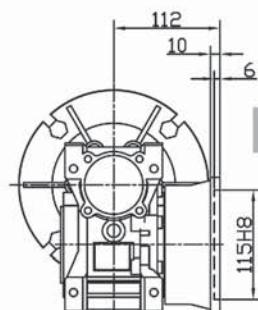
SW-P063



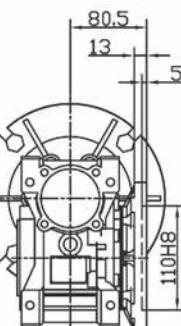
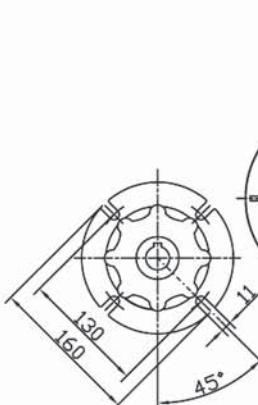
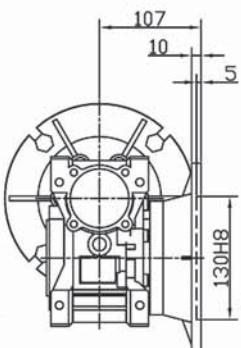
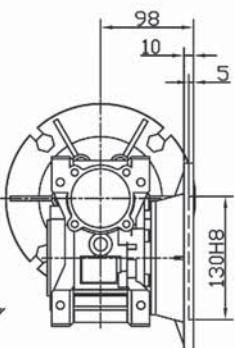
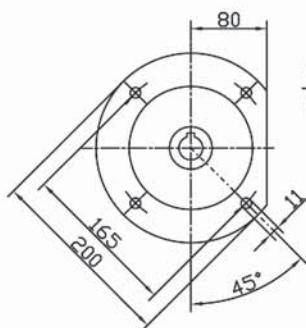
VS



FC



FB



(..) Only on request

(..)括弧內尺寸依要求

- 附扭力臂請參考 B69-70

- Weight without motor ~ 6.2 kg

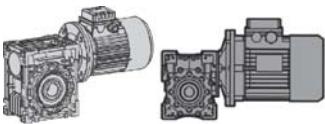
- 重量不含馬達 ~ 6.2 kg

關於馬達連結法蘭的尺寸(Pm, Dm, bm, tm)請參考 A19.

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

Output / 出力軸

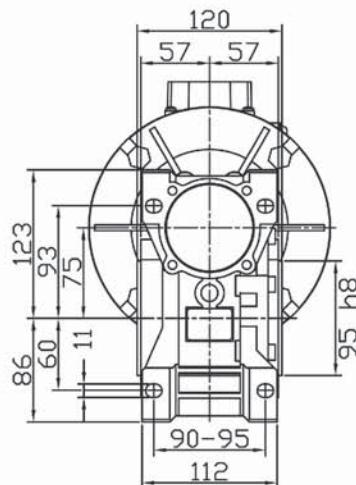
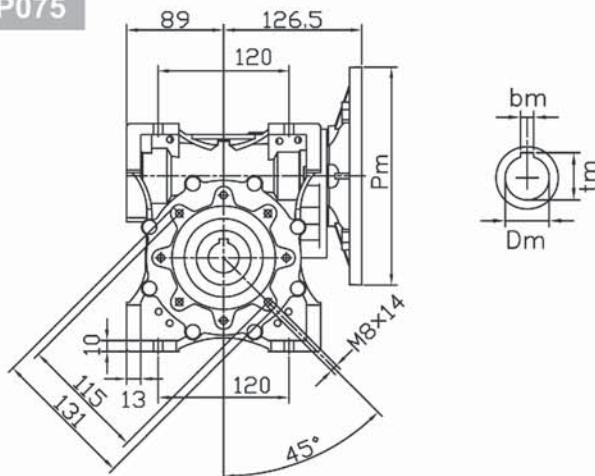
D H8	b	t
25	8	28.3
(28)	(8)	(31.3)



P075 Dimensions / 尺寸圖

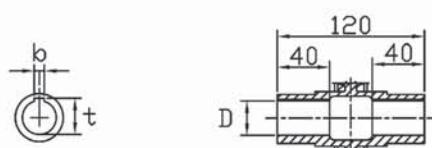
摩 托 迪 克

SW-P075



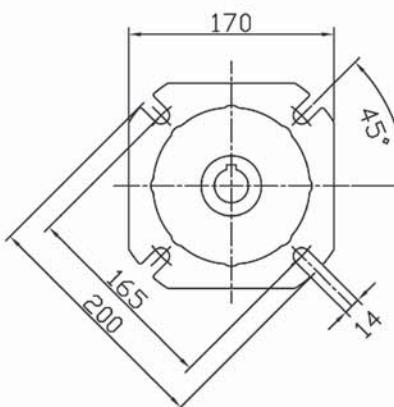
The technical drawing illustrates a mechanical assembly, likely a gear housing or similar component. Key features include:

- A central circular hub with a bore diameter of 27 mm.
- An input shaft on the left side with a diameter of 24 j6 mm and a shoulder diameter of M8 mm.
- A right-hand side plate or cover.
- Dimensions: A vertical dimension of 50 mm is indicated from the bottom of the housing to the top of the input shaft shoulder. A horizontal dimension of 90 mm is indicated between two vertical reference lines.
- Part numbers: The drawing includes part numbers 24 j6, M8, 27, 50, and 90.



VS

FA



A technical drawing of a mechanical part, likely a housing or cover, shown in a cross-sectional view. The drawing includes several dimension lines and callouts. A top horizontal dimension line indicates a total width of 130. A vertical dimension line on the right indicates a height of 6. Another vertical dimension line on the right indicates a height of 130, labeled as having a H_8 tolerance. There are also other internal dimensions and feature descriptions, such as 'O 10' and 'O 12', indicating hole sizes.

A technical drawing of a circular component, likely a bearing housing or similar part. The outer diameter is indicated as 13. The inner bore has a diameter of 6. A vertical dimension of 110 H8 is shown on the right side, indicating a height of 110 and a tolerance of H8.

(..) Only on request

(..)括弧內尺寸依要求

- 附扭力臂請參考 B69-70

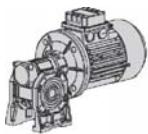
關於馬達連結法蘭的尺寸(P_m , D_m , b_m , t_m)請參考 A19.

- Weight without motor ~ 9 kg

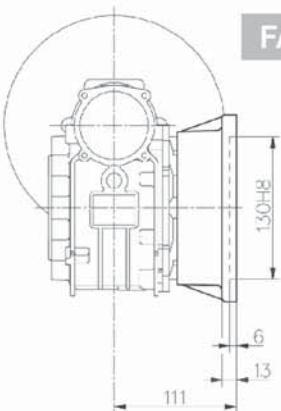
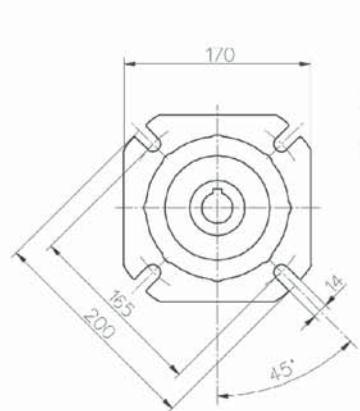
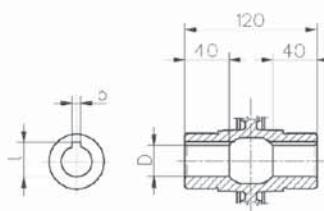
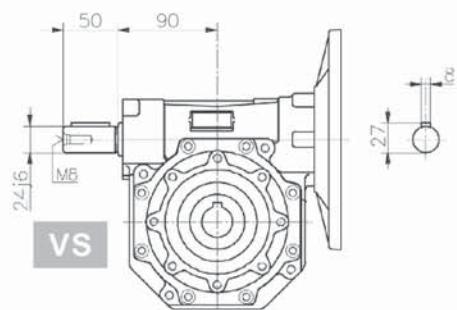
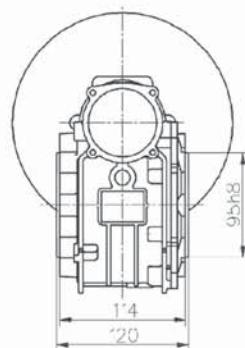
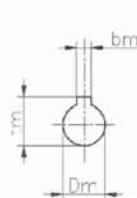
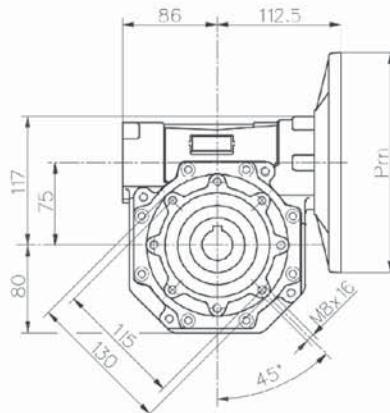
- 重量不含馬達 ~9 kg

Output / 出力軸		
D H8	b	t
28	8	31.3
(30)	(8)	(33.3)
(32)	(10)	(35.3)
(35)	(10)	(38.3)

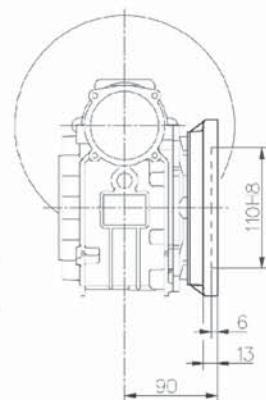
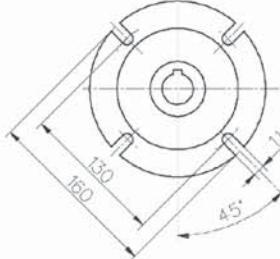
For the dimensions concerning the motor connection area (Pm , Dm , bm , tm) please refer to the table shown at page A19.



SW 075 T



FA



FB

出力軸心：

Uscita / Output / Abtrieb / Sortie / Salida		
D H8	b	t
28	8	31,3
(35)	(10)	(38,3)

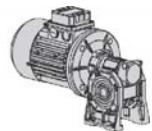
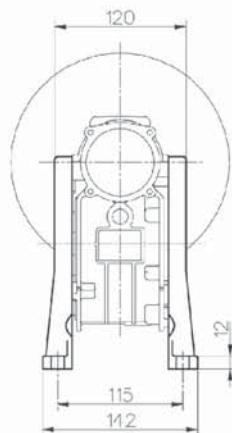
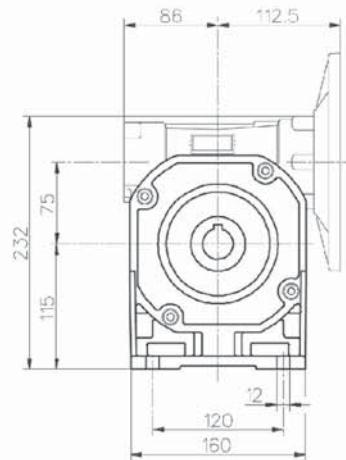
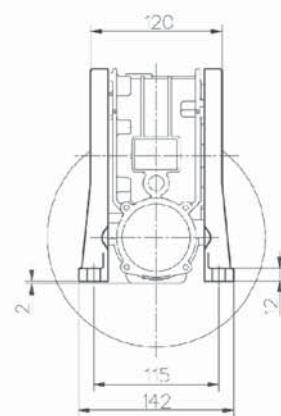
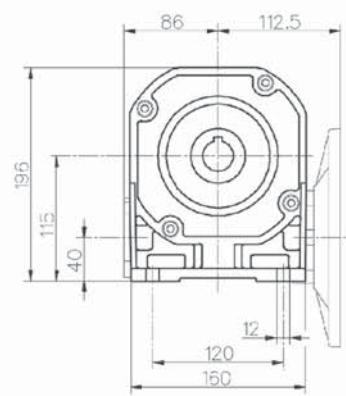
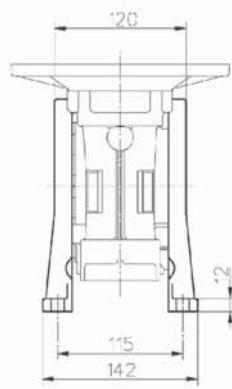
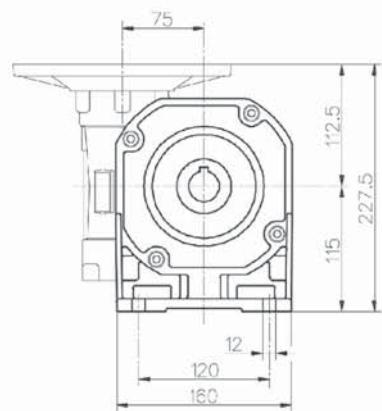
(..) Only on request

()括弧內尺寸依要求

- 附扭力臂請參考 B69-70

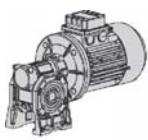
- Weight without motor ~9 kg

- 重量不包含馬達~9kg


075 Dimensions / 尺寸圖
摩 托 迪 克

SW 075 PA

SW 075 PB

SW 075 PV

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

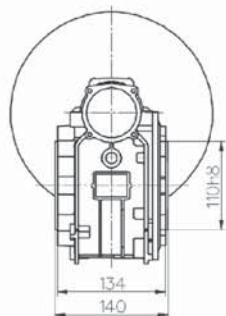
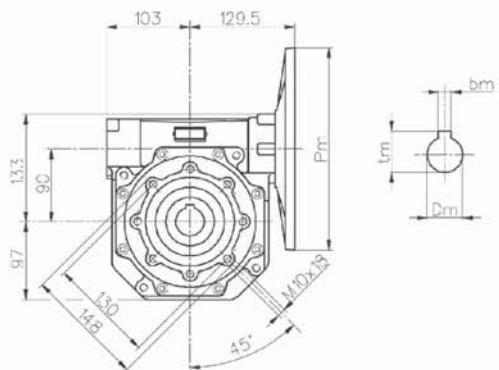
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考A19。



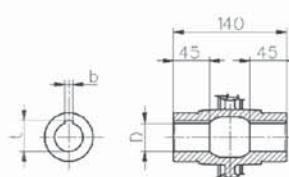
090 Dimensions / 尺寸圖

摩 托 迪 克

SW 090 T



A technical drawing of a mechanical assembly, likely a valve or actuator. The drawing shows a central circular component with multiple mounting holes, a handle on the right side, and a lever arm extending from the left. Dimension lines indicate widths of 50 and 108, a height of 24.16, and a thickness of 27. A label 'VS' is located in the bottom-left corner of the drawing area.



FA

FB

FC

FD

出力軸心：

Uscita / Output / Abtrieb / Sortie / Salida		
D H8	b	t
35	10	38,3
(38)	(10)	(41,3)

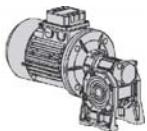
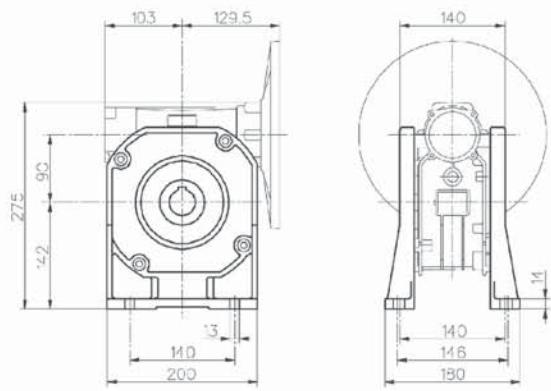
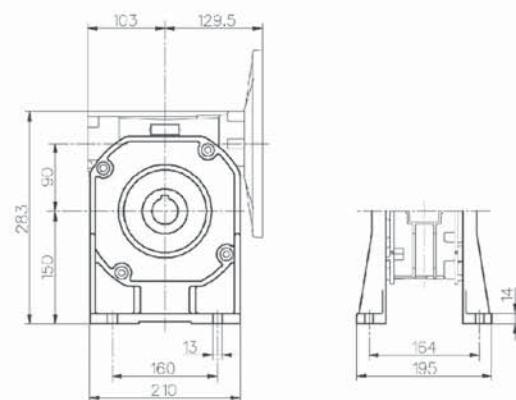
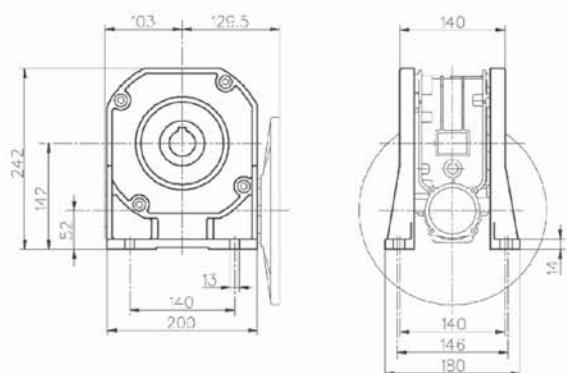
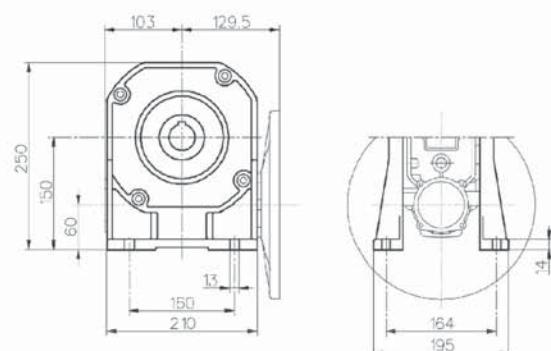
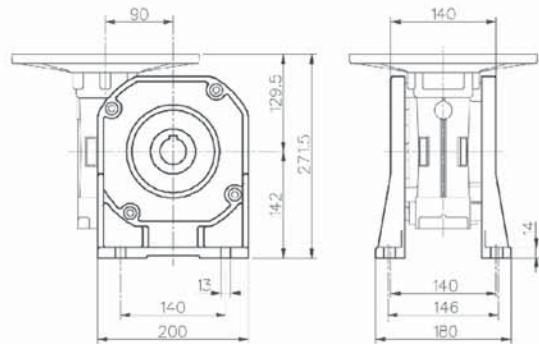
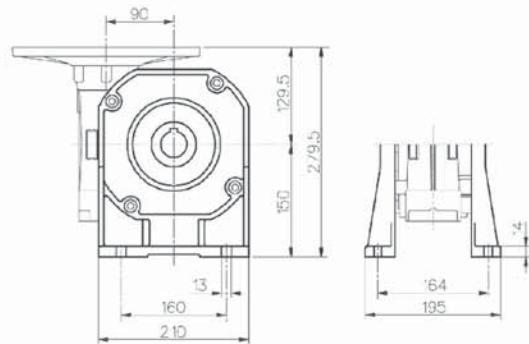
() Only on request

- Weight without motor \approx 13 kg

(c)括弧內尺寸依要求

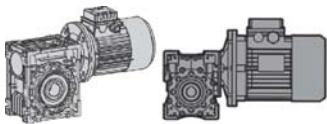
-重量不包含馬達~13kg

- 附扭力臂請參考 B69-70


090 Dimensions / 尺寸圖
摩 托 迪 克
SW 090 PA

SW 090 PAS

SW 090 PB

SW 090 PBS

SW 090 PV

SW 090 PVS


For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

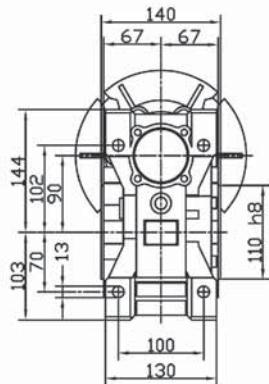
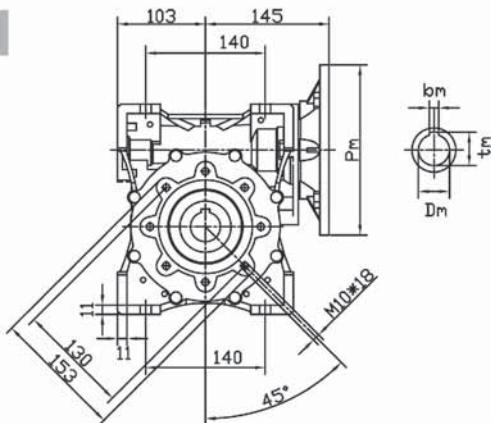
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考 A19.



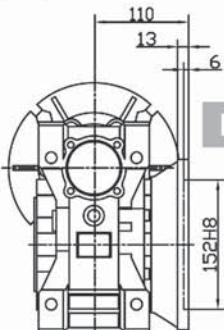
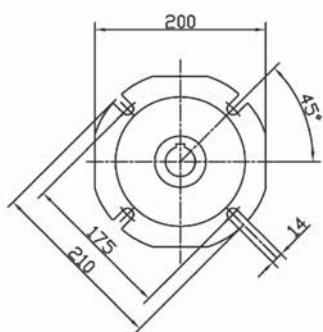
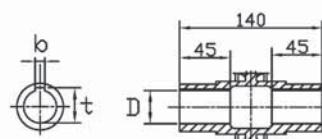
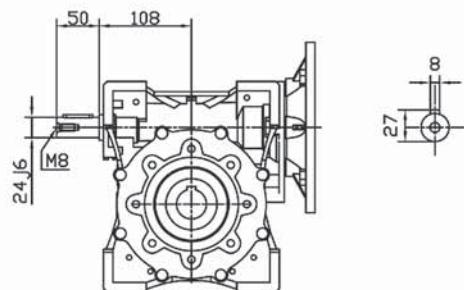
P090 Dimensions / 尺寸圖

摩 托 迪 克

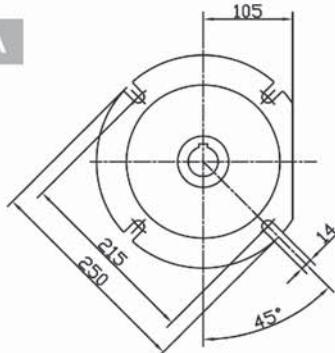
SW-P090



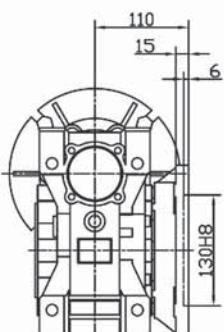
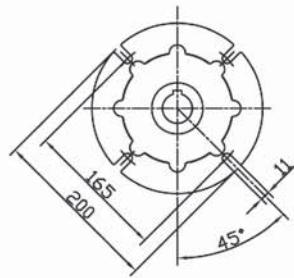
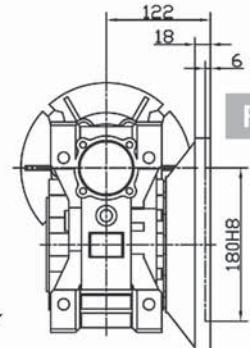
VS



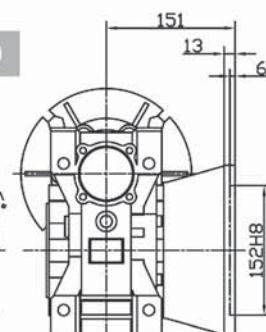
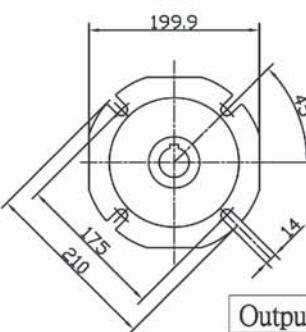
FA



FB



FC



Output / 出力軸

D H8	b	t
35	10	38.3
(38)	(10)	(41.3)
(40)	(12)	(43.3)

(..) Only on request

(..) 括弧內尺寸依要求

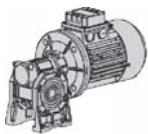
關於馬達連結法蘭的尺寸(Pm, Dm, bm, tm)請參考 A19.

- Weight without motor ~ 13 kg

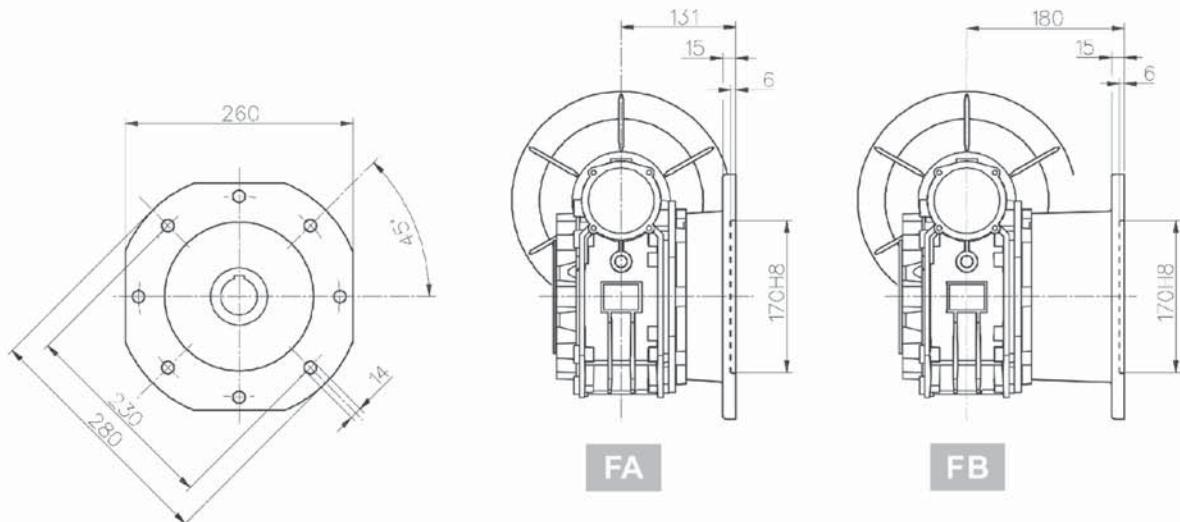
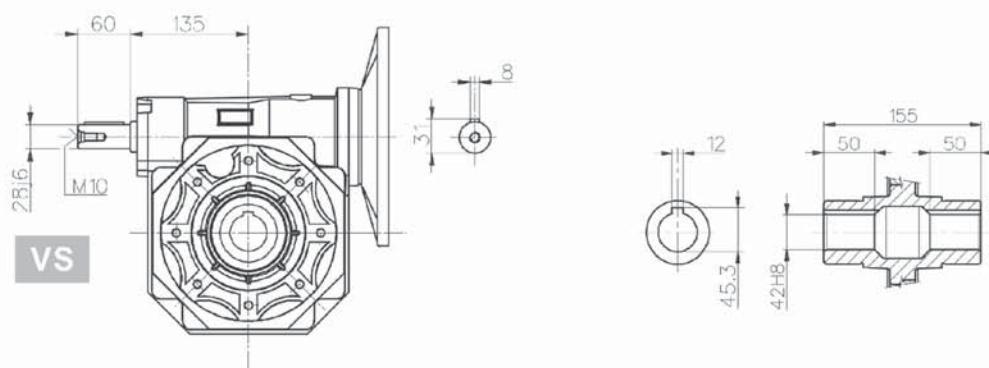
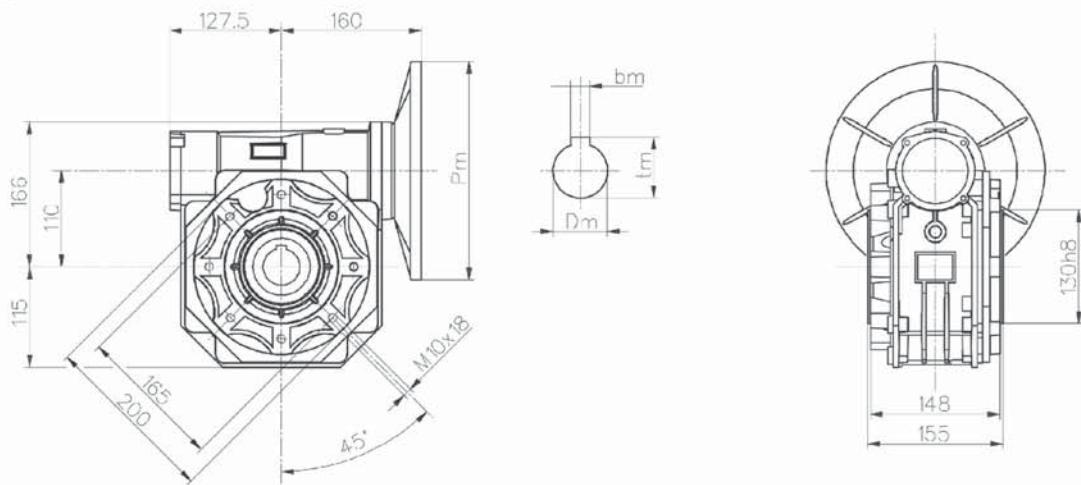
- 重量不含馬達 ~ 13 kg

- 附扭力臂請參 B69-70

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

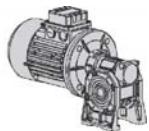
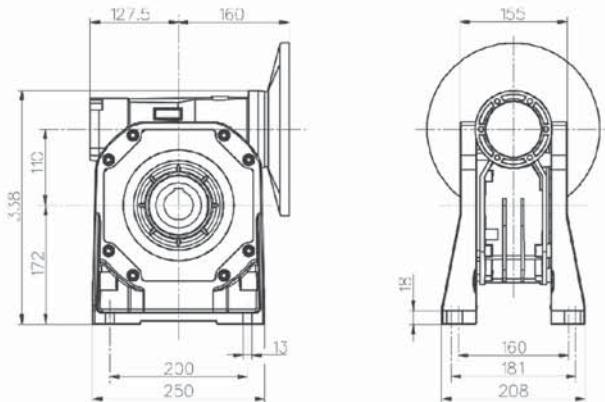
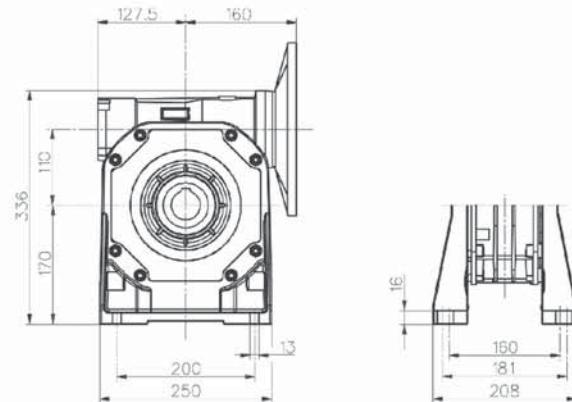
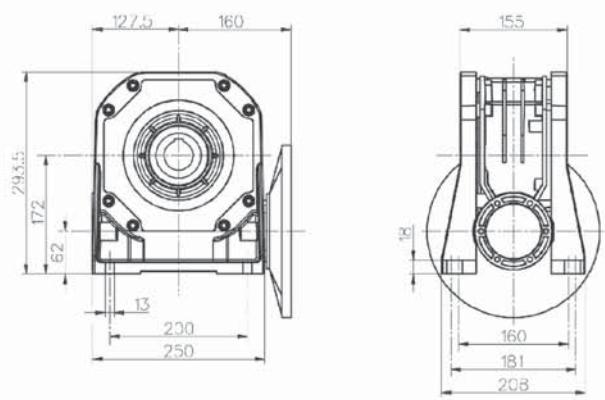
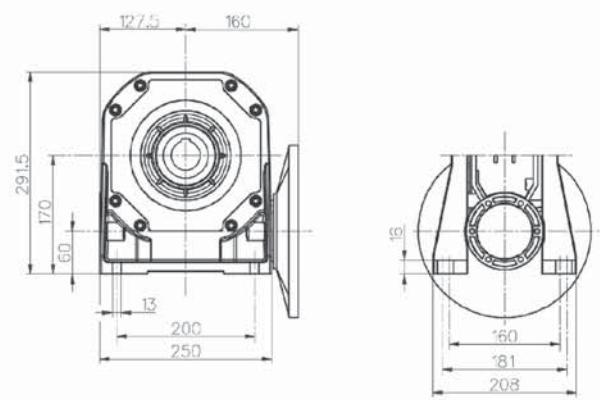
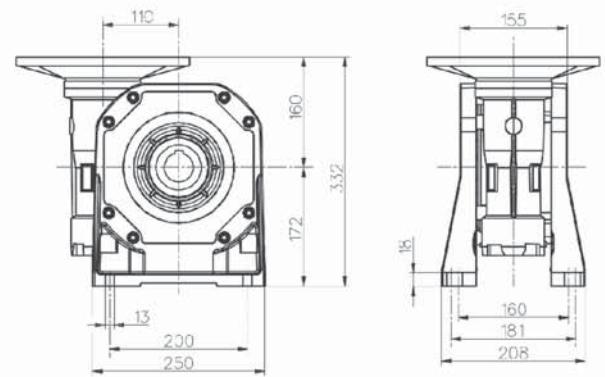
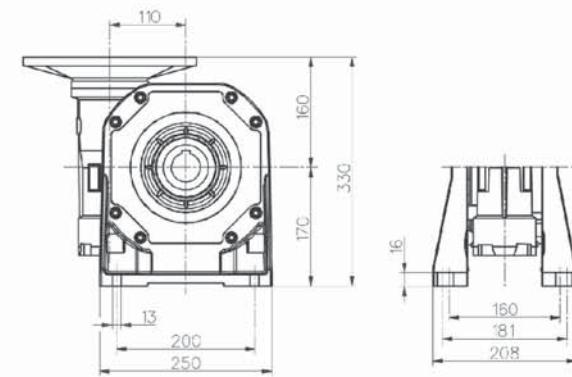


SW 105 T



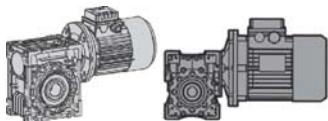
- Weight without motor ~ 21kg - 附扭力臂請參考 B69-70

-重量不包含馬達~21kg


105 Dimensions / 尺寸圖
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SW 105 PA

SW 105 PAS

SW 105 PB

SW 105 PBS

SW 105 PV

SW 105 PVS


For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

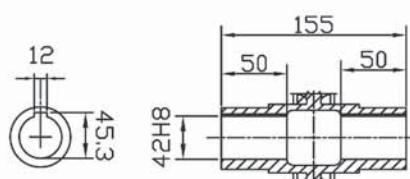
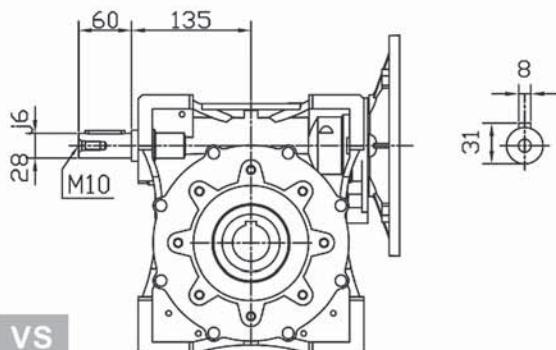
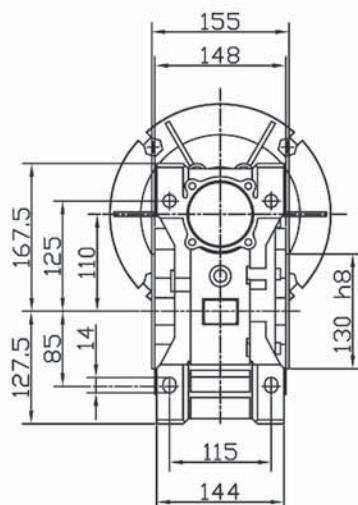
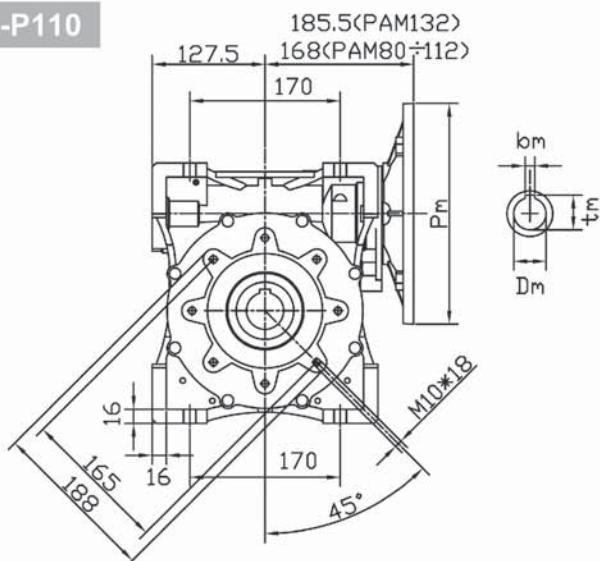
關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考 A19.



P110 Dimensions / 尺寸圖

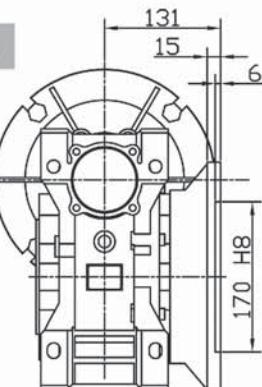
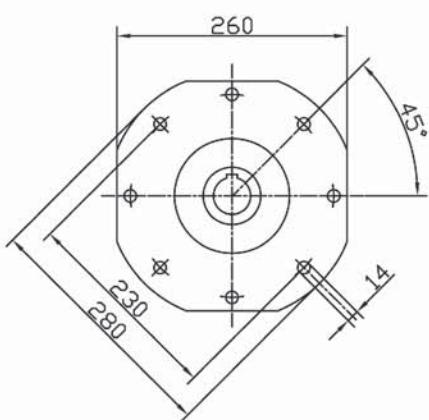
摩 托 迪 克

SW-P110

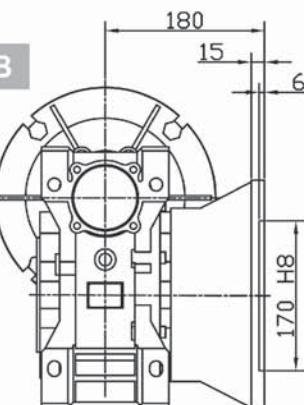


VS

FA



FB



(..) Only on request

(..)括弧內尺寸依要求

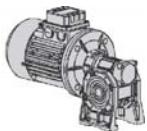
- Weight without motor ~ 21 kg

- 重量不含馬達 ~ 21 kg

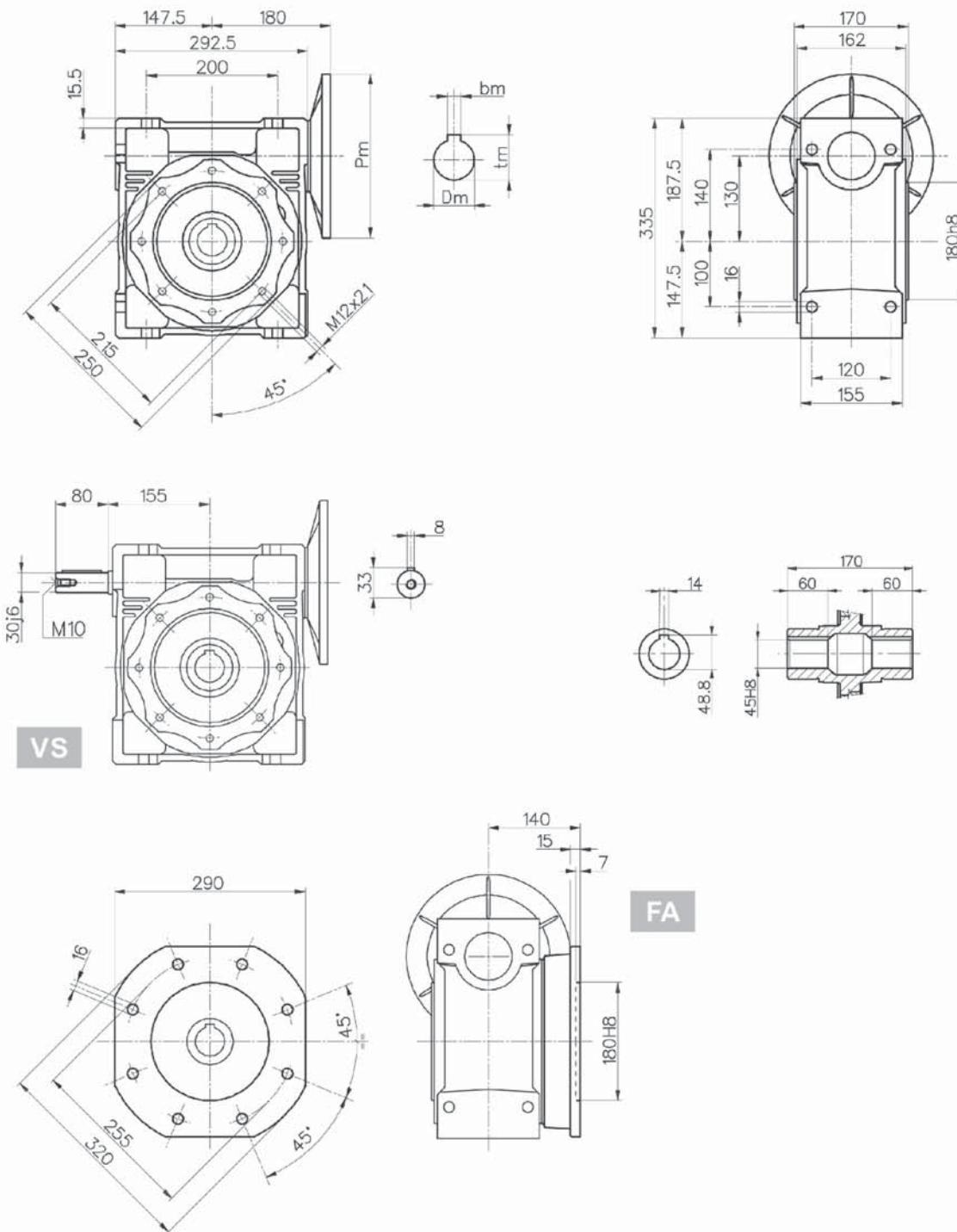
- 附扭力臂請參考B69-70

關於馬達連結法蘭的尺寸(Pm, Dm, bm, tm)請參考A19.

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.



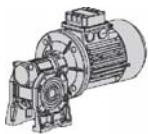
SW 130



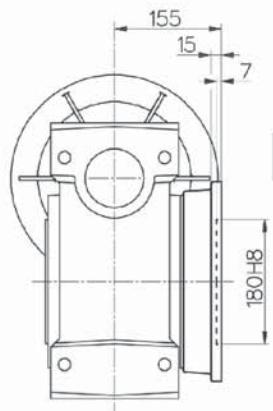
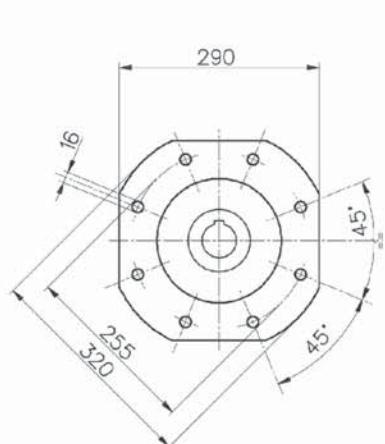
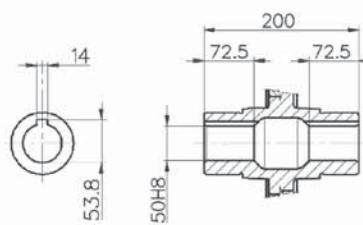
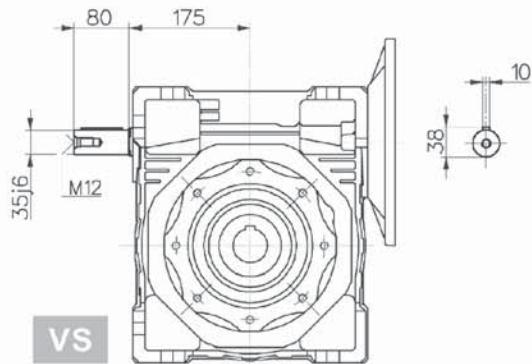
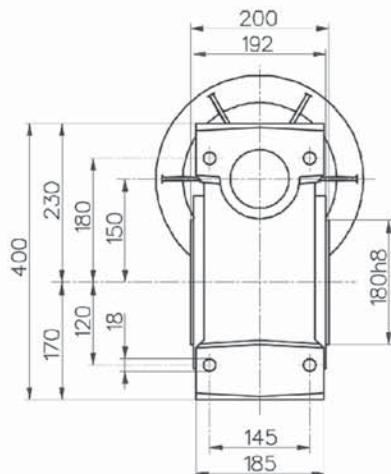
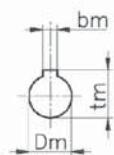
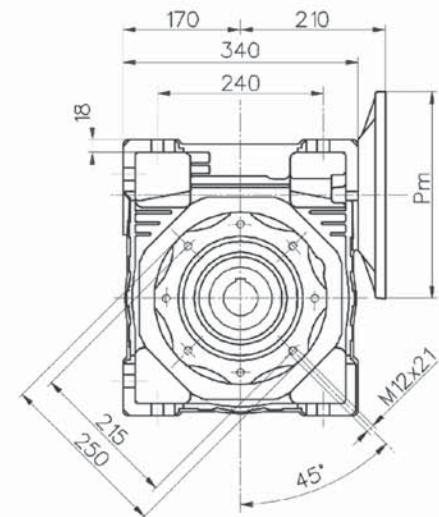
- Weight without motor ~48 kg - 附扭力臂請參考 B69-70
 - 重量不包含馬達~48kg

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考 A19.



SW 150

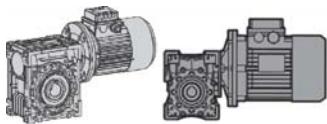


FA

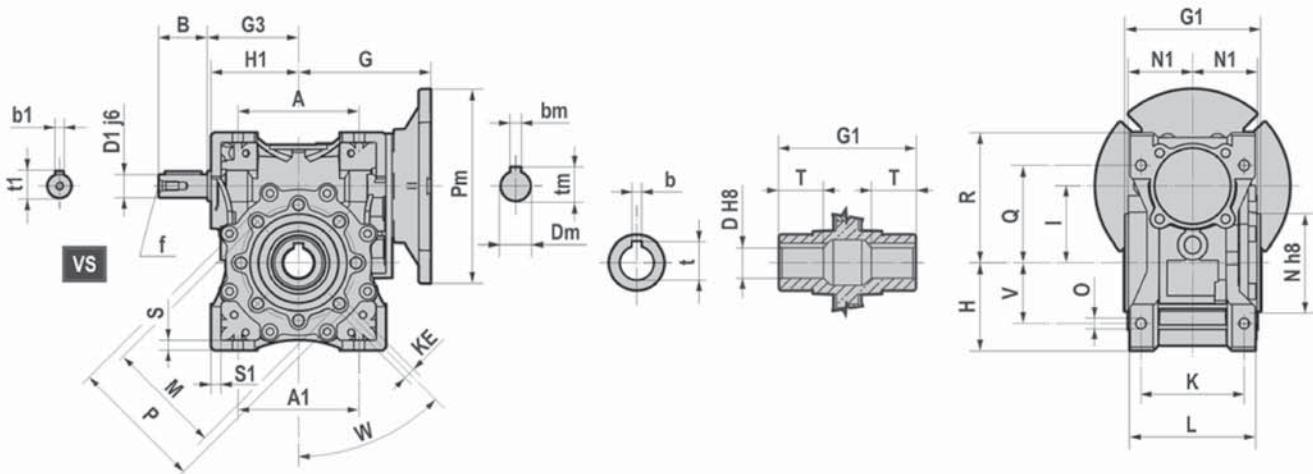
- Weight without motor ~84 kg - 附扭力臂請參考 B69-70
- 重量不包含馬達~84kg

For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.

關於馬達連結法蘭尺寸(Pm,Dm,bm,tm)請參考 A19.



NMRV/NMRV-P030-150 - Dimensions / 尺寸圖



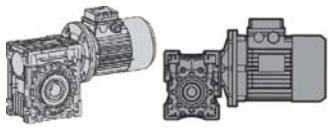
	030	040	050	063	075	090	110	130	150
A	54	70	80	100	120	140	170	200	240
A1	54	70	80	100	120	140	164.-170	200	240
B	20	23	30	40	50	50	60	80	80
D	14	18.(19)	25.(24)	25.(28)	28.(30).(32).(35)	35.(38).(40)	42	45	50
D1	9	11	14	19	24	24	28	30	35
G	55	70	80	109	126,5	145	185,5.(PAM.132) 168.(PAM.80+112)	180	210
G1	63	78	92	112	120	140	155	170	200
G3	45	53	64	75	90	108	135	155	175
H	40	50	60	72	86	103	127,5	147,5	170
H1	40	50	60	72	89	103	127,5	147,5	170
I	30	40	50	63	75	90	110	130	150
K	44	60	70	85	90.-.95	100	115	120	145
KE	M6*11.n°4	M6*11.n°4	M8*10.n°4	M8*14.n°8	M8*14.n°8	M10*18.n°8	M10*18.n°8	M12*21.n°8	M12*21.n°8
L	56	71	85	103	112	130	144	155	185
M	65	75	85	95	115	130	165	215	215
N	55	60	70	80	95	110	130	180	180
N1	29	36,5	43,5	53	57	67	74	81	96
O	6,5	6,5	8,5	8,5	11	13	14	16	18
P	75	87	100	110	131	153	188	250	250
Q	44	55	64	80	93	102	125	140	180
R	57	71,5	84	107	123	144	167,5	187,5	230
S	5,5	6,5	7	8	10	11	14,5	15,5	18
S1	5,5	6,5	7	8	13	11	14,5	15,5	18
T	21	26	30	36	40	45	50	60	72,5
V	27	35	40	50	60	70	82.-.85	100	120
W	0°	45°	45°	45°	45°	45°	45°	45°	45°
b	5	6.(6)	8.(8)	8.(8)	8.(8).(10).(10)	10.(10).(12)	12	14	14
t	16,3	20,8.(21,8)	28,3.(27,3)	28,3.(31,3)	31,3.(33,3).(35,3).(38,3)	38,3.(41,3).(43,3)	45,3	48,8	53,8
bl	3	4	5	6	8	8	8	8	10
tl	10,2	12,5	16	21,5	27	27	31	33	38
f	-	-	M6	M6	M8	M8	M10	M10	M12
-Kg	1,2	2,3	3,5	6,2	9	13	21	43,5	77

(..) Only on request

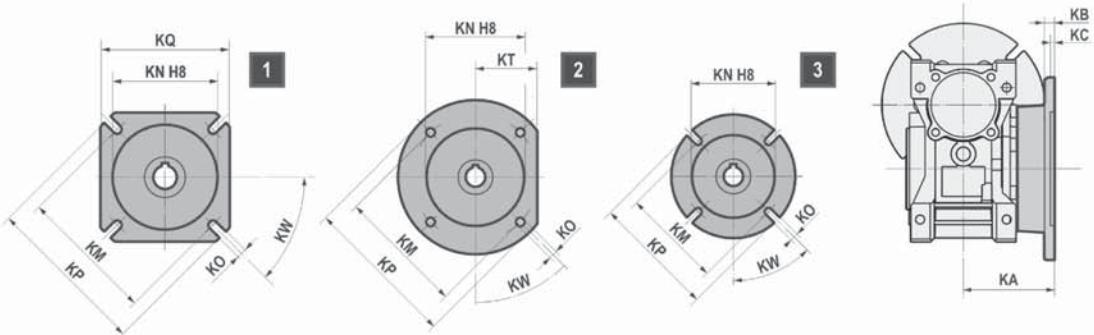
- 關於馬達連結法蘭的尺寸(Pm, Dm, bm, tm)請參考A19.

(..)括弧內尺寸依要求

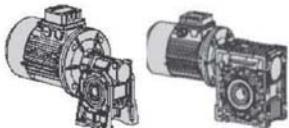
- For the dimensions concerning the motor connection area (Pm, Dm, bm, tm) please refer to the table shown at page A19.



NMRV/NMrv-P030-150F - Dimensions / 出力法蘭尺寸



	030	040	050	063	075	090	110	130	150
FA	KA	54,5	67	90	82	111	111	131	140
	KB	6	7	9	10	13	13	15	15
	KC	4	4	5	6	6	6	6	6
	KN	50	60	70	115	130	152	170	180
	KM	68	80 min	90 min	150	165	175	230	255
	KO	6.5 (n°4)	9 (n°4)	11 (n°4)	11 (n°4)	14 (n°4)	14 (n°4)	14 (n°8)	16 (n°8)
	KP	80	110	125	180	200	210	280	320
	KQ	70	95	110	142	170	200	260	290
	KW	45°	45°	45°	45°	45°	45°	22.5°	22.5°
FB	KA	-	97	120	112	90	122	180	-
	KB	-	7	9	10	13	18	15	-
	KC	-	4	5	6	6	6	-	-
	KN	-	60	70	115	110	180	170	-
	KM	-	80 min	90 min	150	130	215	230	-
	KO	-	9 (n°4)	11 (n°4)	11 (n°4)	11 (n°4)	14 (n°4)	14 (n°8)	-
	KP	-	110	125	180	160	250	280	-
	KQ	-	95	110	142	-	-	260	-
	KT	-	-	-	-	-	105	-	-
FC	KW	-	45°	45°	45°	45°	45°	45°	-
	KA	-	80	89	98	-	110	-	-
	KB	-	9	10	10	-	17	-	-
	KC	-	5	5	5	-	6	-	-
	KN	-	95	110	130	-	130	-	-
	KM	-	115	130	165	-	165	-	-
	KO	-	9.5 (n°4)	9.5 (n°4)	11 (n°4)	-	11 (n°4)	-	-
	KP	-	140	160	200	-	200	-	-
	KT	-	56	66	80	-	-	-	-
FD	KW	-	45°	45°	45°	-	45°	-	-
	KA	-	58	72	107	-	151	-	-
	KB	-	12	14,5	10	-	13	-	-
	KC	-	5	5	5	-	6	-	-
	KN	-	80	95	130	-	152	-	-
	KM	-	100	115	165	-	175	-	-
	KO	-	9 (n°4)	11 (n°4)	11 (n°4)	-	14 (n°4)	-	-
	KP	-	120	140	200	-	210	-	-
	KQ	-	-	-	-	-	200	-	-
FE	KT	-	50	60	-	-	-	-	-
	KW	-	45°	45°	45°	-	45°	-	-
	KA	-	-	-	80,5	-	-	-	-
	KB	-	-	-	16,5	-	-	-	-
	KC	-	-	-	5	-	-	-	-
	KN	-	-	-	110	-	-	-	-
	KM	-	-	-	130	-	-	-	-
	KO	-	-	-	11 (n°4)	-	-	-	-
	KP	-	-	-	160	-	-	-	-
	KW	-	-	-	45°	-	-	-	-

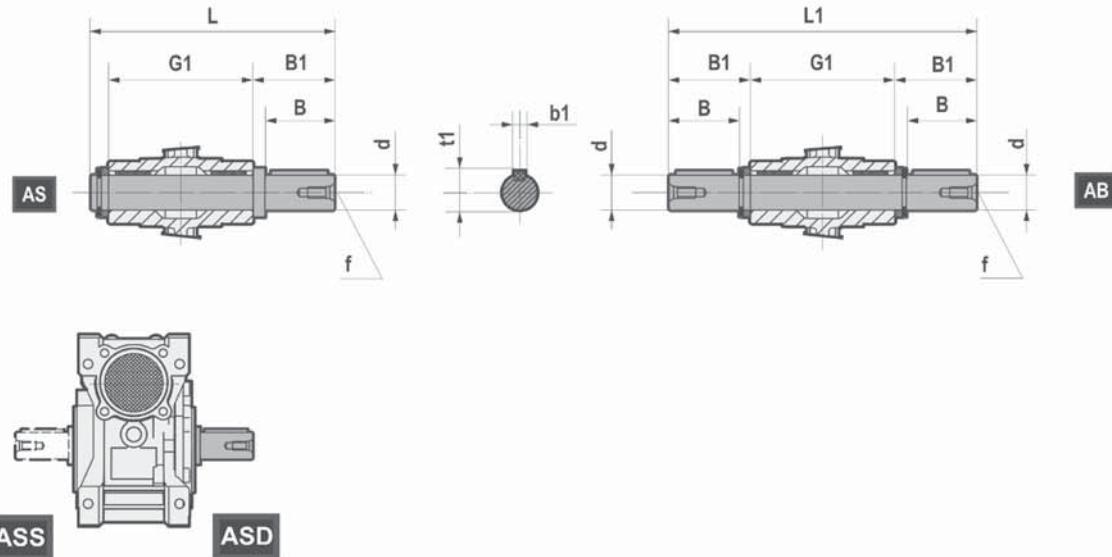


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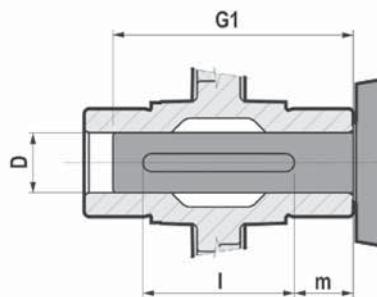
MOTOVARIO

Low speed shafts / 涡輪減速機出力軸---依要求提供

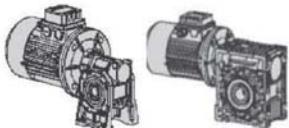


	025	030	040	050	063	075	090	110	130	150
d	11g6 (9)	14 h6	18 h6	25 h6	25 h6	28 h6	35 h6	42 h6	45 h6	50 h6
B	23 (25)	30	40	50	50	60	80	80	80	82
B1	25,5 (30)	32,5	43	53,5	53,5	63,5	84,5	84,5	85	87
G1	50	63	78	92	112	120	140	155	170	200
L	81 (85,5)	102	128	153	173	192	234	249	265	297
L1	101	128	164	199	219	247	309	324	340	374
f	-	M6	M6	M10	M10	M10	M12	M16	M16	M16
b1	4 (3)	5	6	8	8	8	10	12	14	14
t1	12,5 (10,2)	16	20,5	28	28	31	38	45	48,5	53,5

Machine axis / 機械軸心裝配公差建議值



	D	G1 *	l *	m *
025	Ø11	H8/g6	45	30
030	Ø14	H8/h6	55	40
040	Ø18 (19)	H8/h6	70	50
050	Ø25 (24)	H8/h6	80	55
063	Ø25 (28)	H8/h6	100	70
075	Ø28 (30) (32) (35)	H8/h6	105	75
090	Ø35 (38) (40)	H8/h6	120	80
105	Ø42	H8/h6	135	95
110	Ø42	H8/h6	135	95
130	Ø45	H8/h6	145	100
150	Ø50	H8/h6	175	130



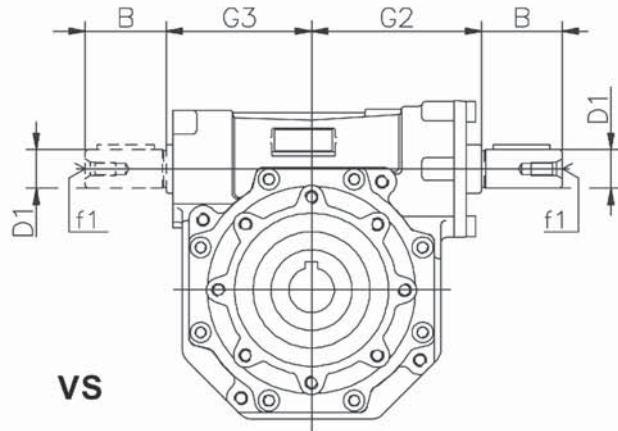
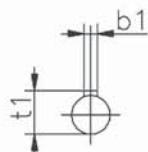
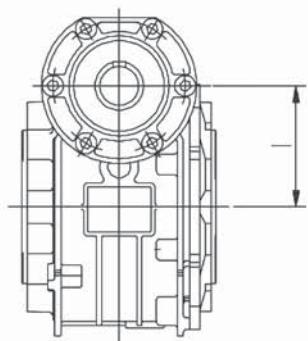
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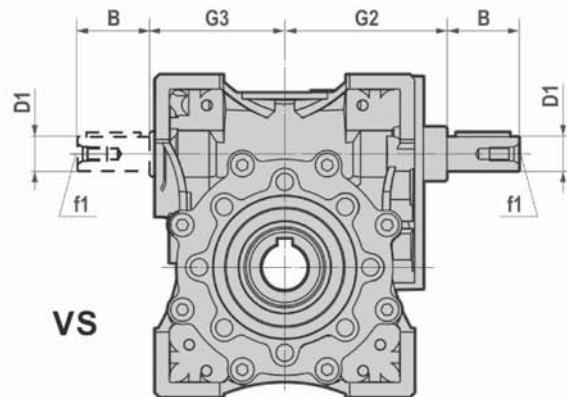
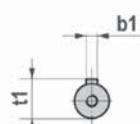
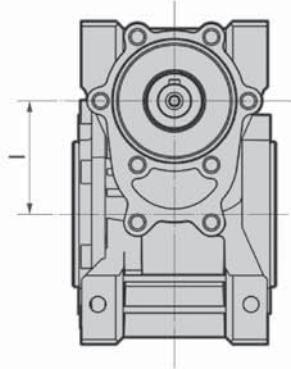
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ISW . NRV Input shaft 入力軸

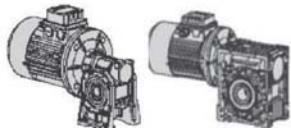
ISW



NRV



	030	040	050	063	075	090	105/110	130	150
B	20	23	30	40	50	50	60	80	80
D1	9 j6	11 j6	14 j6	19 j6	24 j6	24 j6	28 j6	30 j6	35 j6
G2	51	60	74	90	105	125	142	162	195
G3	45	53	64	75	90	108	135	155	175
I	30	40	50	63	75	90	110	130	150
b1	3	4	5	6	8	8	8	8	10
t1	-	-	M6	21,5	27	27	31	M10	M12
f1	10,2	12,5	16	M6	M8	M8	M10	33	38

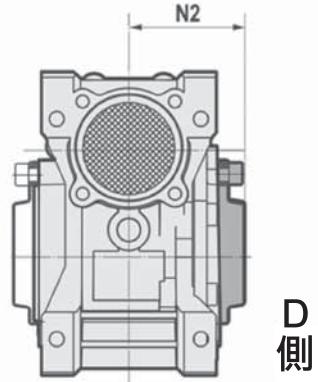
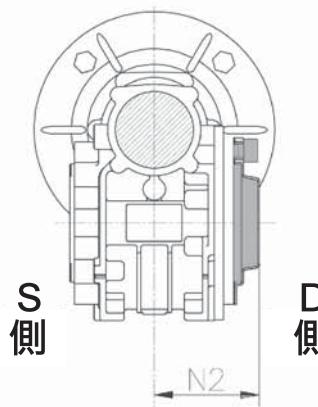


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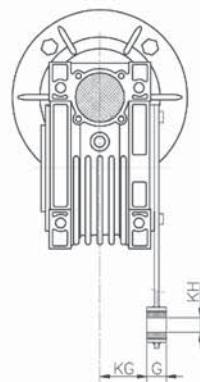
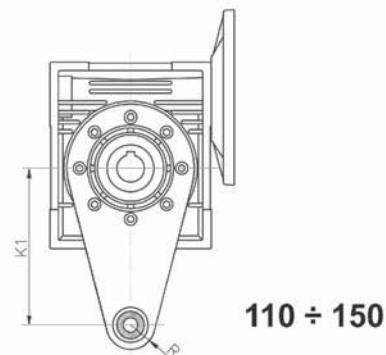
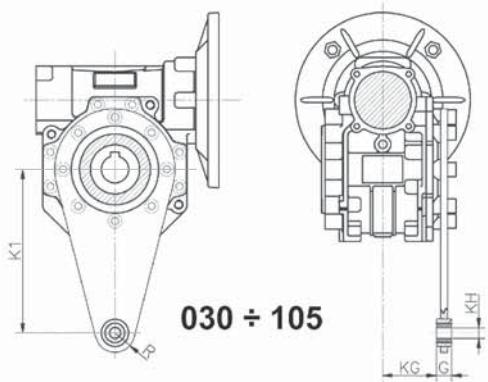
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Protection cover / 軸端蓋板

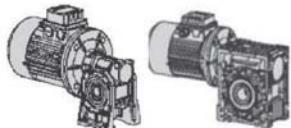


	N2
030	42
040	50
050	57,5
063	68,5
075	73,5
090	85,5
110	94
130	102
150	117

Torque arm / 扭力臂



	K1	G	KG	KH	R
030	85	14	24	8	15
040	100	14	31,5	10	18
050	100	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

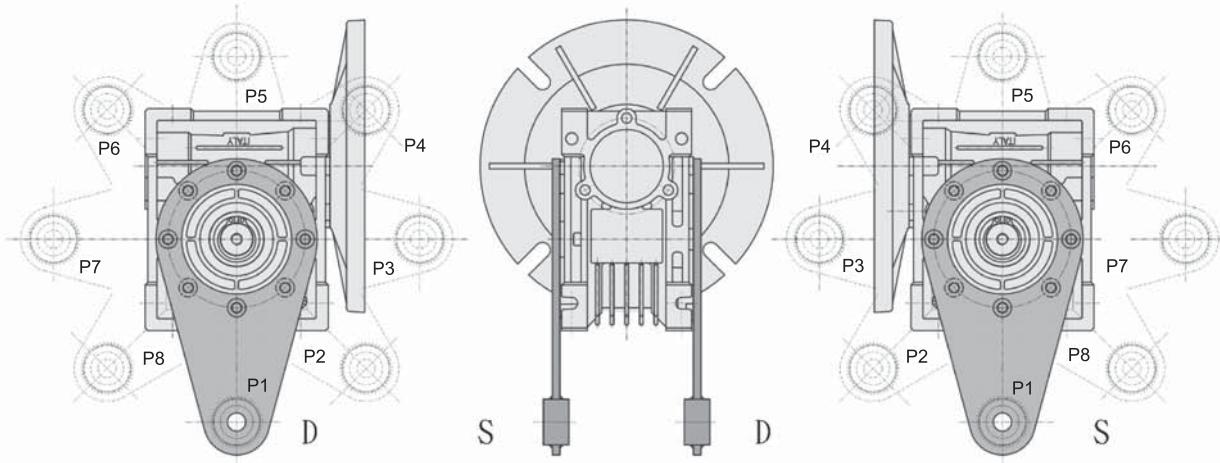


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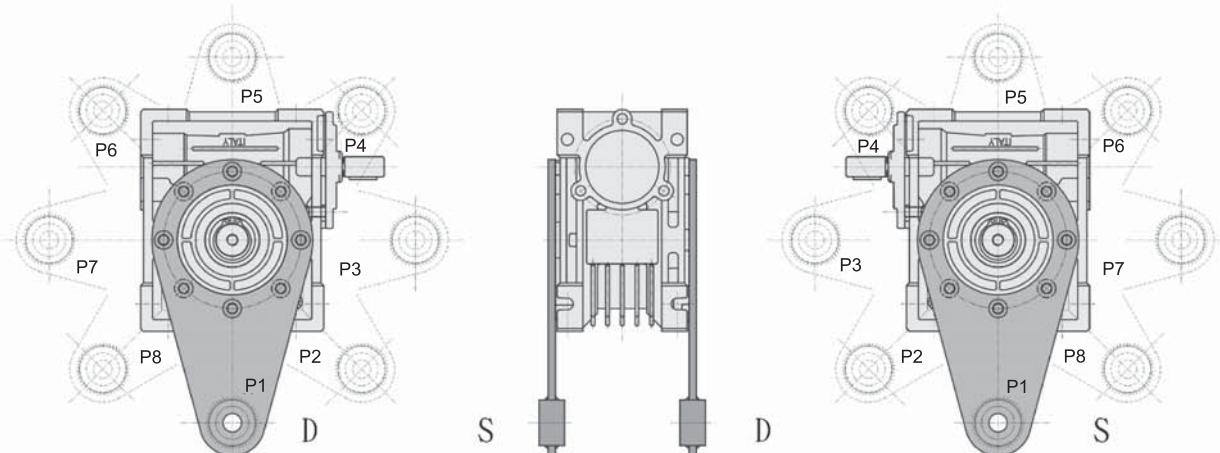
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MOTOVARIO

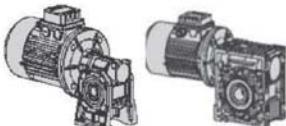
Torque arm / 扭力臂安裝方向



NMRV-NMRVP NMRL	P1		P2		P3		P4		P5		P6		P7		P8	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S
025			/	/	NO	NO	/	/			/	/			/	/
030			NO	NO	NO	NO	NO	NO								
040	NO NMRL		NO NMRL		NO NMRL		NO NMRL		NO NMRL							
050			NO	NO	NO	NO	NO	NO			NO	NO				
063					NO	NO	NO	NO								
075			NO	NO	NO	NO	NO	NO								
090 - 110 - 130					NO	NO	NO	NO	NO	NO	NO	NO			NO	NO
150			NO	NO	NO	NO			NO	NO						



NRV-NRVP NRL	P1		P2		P3		P4		P5		P6		P7		P8	
	D	S	D	S	D	S	D	S	D	S	D	S	D	S	D	S
030			NO	NO			NO	NO								
040	NO NRL		NO NRL	NO	NO NRL	NO	NO	NO	NO NRL		NO NRL		NO NRL		NO NRL	
050			NO	NO			NO	NO			NO	NO				
063 - 075 - 090 - 110 - 130							NO	NO								
150			NO	NO			NO	NO	NO	NO	NO	NO			NO	NO



Features / 特色 – 涡輪減速機附扭力限制器（內藏式）

摩 托 迪 克

The torque limiter, in oil bath, is designed for sizes 040-050-063-075-090.

This device assures the protection of the transmission from accidental high overloads which could damage the gearbox and the power transmission components.

If necessary, it prevents reversing conditions of the worm gear unit by opportunely loosening the lock nut.

Features

- external dimensions are almost the same as the version without torque limiter.
- no difference of the mountings.
- no difference of the hollow output shaft diameter with respect to the standard gearbox.
- the slipping torque can be easily adjusted by means of an external ring nut.
- no maintenance required on slipping components.
- functional features are the same as standard version.

Torque adjustment

The adjustment is carried out during assembly at about 80% of the nominal torque reported in the catalogue.

This torque is transmitted by friction and so many factors could influence the adjustment value, like: temperature, running-in, vibrations, etc., therefore it is advised to adjust the torque limit by means of the lock nut when installing the gearbox on the machine, in accordance to application requirements.

- 有扭矩限制器和油浴槽的型號為 **040-050-063-075-090**
- 這種裝置可避免因傳輸過高負載時對減速箱造成損壞
- 必要時，可鬆開防鬆螺母防止減速機的回轉。

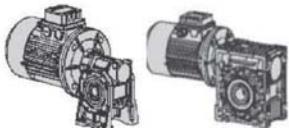
特性 (Features)

- 外部尺寸幾乎與無扭矩限制器的機種相同
- 無安裝上的區別
- 關於標準齒輪箱其中空輸出軸直徑無區別
- 打滑扭矩很容易利用一外部環形螺母來調整
- 滑動組件不需保養
- 性能特徵與標準型機種相同

扭矩調整 (Torque adjustment)

設定扭矩限制值是根據目錄上所註明的扭矩值之 80%來進行的。

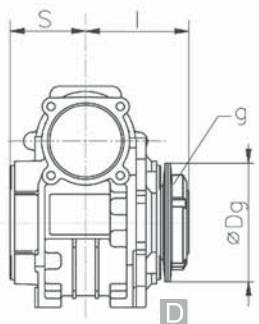
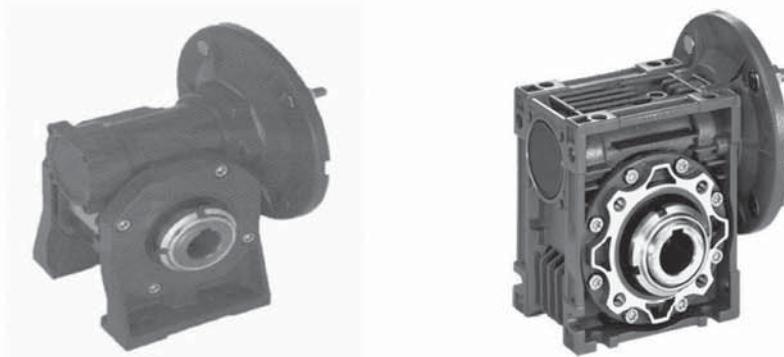
扭矩限制是通過摩擦力來生效，因此也會受溫度，磨合或震盪等因素所影響。因此廠方鼓勵用戶應該根據應用情況以防鬆螺母來調校限制值。



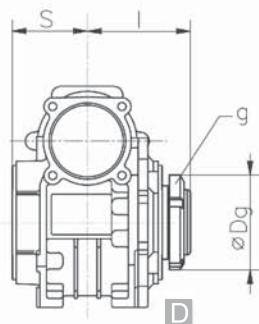
摩托迪克

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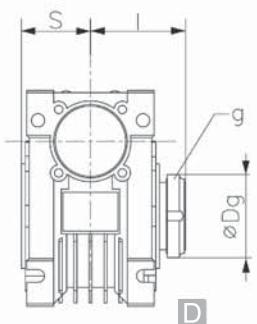
Dimensions / 尺寸圖 - 涡輪減速機附扭力限制器(內藏式)



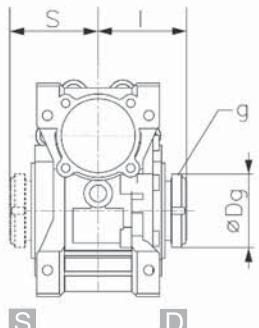
SWL 040



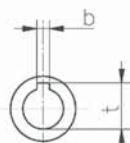
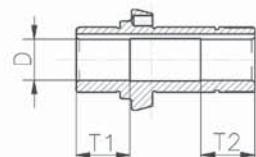
SWL 050 + 090



NMRL 050



NMRL-P063 + 090



	040	050	063	075	090
I	55	63,5	74	78,5	89,5
S	39	46	56	60	70
Dg	63	56	62	68	80
g	M30x1,5	M40x1,5	M45x1,5	M50x1,5	M60x2
b	6	8	8	8	10
t	20,8	28,3	28,3	31,3	38,3
D	Ø18	Ø25	Ø25	Ø28	Ø35
T1	28	33	37	40	45
T2	28	33	37	40	45