

Gear Reducer Series



Indication of Model Numbers

機種型號表示

H	205	20	1	A	OH
機型 Type	型號 Model	減速比 Ratio	馬力 Horse Power	馬達極數 Motor Poles	安裝方向 Installation Direction
H	[Note 1]	雙段 2-Stage 1/3~1/30	1/4HP	A: 4 極 Poles	OH
HD			~	B: 6 極 Poles	OD
HB		三段 3-Stage 1/31~1/200	75HP	C: 2 極 Poles	OU
V				D: 8 極 Poles	OL
VD		連結 Multi-Stage 1/200~1/6000		可搭配： 無段變速 Variator 皮帶變速 Belt-Variator	OR
VB					OS
LSH					[Note 2]
LSHD					
LSHB					
LSV					
LSVD					
LSVB					

Note:

- 請參閱「齒輪減速機馬力型號速比一覽表」。 See "Selection Table of HP, Model & Ratio".
- 請參閱「安裝方向」。 See "Installation Direction".

齒輪減速機馬力型號速比一覽表

Selection Table of HP, Model & Ratio

功率 Power HP (4P) (kW)	型號 Model	減速比 Ratio	功率 Power HP (4P) (kW)	型號 Model	減速比 Ratio
1/4 (0.2)	201	5 10 15 20 25 30	7 1/2 (5.5)	212	5 10
	203	35 40		213、213S	15 20 25 30
	304	50 60 70 90 100 120 ※150		314、314S	35 40 50
	306	150 180 200		315	60 70 80 90 100 120
202	5 10	317		150 160 180 190 200	
1/2 (0.4)	203	10 15 20 25 30	10 (7.5)	212	5 10
	205	35 40 45 50		214、214S	15 20 25 30
	※304	40 50		315	35 40 50
	306	60 70 80 90 100 120		316	60 70 80 90 100 120
	308	130 140 150 180 200		318	150 180 190 200
	205	5 10 15 20 25 30	15 (11)	213、213S	5 10
207	35 40	215		15 20 25 30	
308	40 50 60 70 80 90 100 120	316		35 40 50	
310、310S	130 150 160 180 200	317		60 80 90 100 120	
1 (0.75)	312、312S	140 150 200	20 (15)	215	5 10
	206	5 10		216	15 20 25 30
	207	15 20 25 30		317	40 50
	209	35 40		318	60 70 80 90 100 120
	※308	35 40		319	150 175 200
	310、310S	40 50 60 70 80 90 100 120	25 (18)	216	5 10
	312	140 150 180 190 200		217	15 20 25 30
312S	40 50 60 70 80 90 100 120	318		40 50 60	
208	5 10	319		100 110	
2 (1.5)	209、209S	15 20 25 30	30 (22)	217	5 10 15 20 25 30
	211	35 40		318	40 50
	※310	40 50 60		319	60 70 120
	312	50 60 70 80 90 100 120	40 (29)	217	5 10
	314	130 140 150 160 170 180 190 200		218	10 15 20 25 30
	210、210S	5 10		319	40 50 60
3 (2.2)	211、211S	15 20 25 30	50 (37)	218	5 10
	312	40 50 ※60		219	15 20 25 30
	314、314S	60 70 80 90 100 120	60 (44)	※218	5 10
	315	150 180 200		219	15 20 30
	5 (3.7)			75 (55)	219
			220		15 20 30

◆ 表中 ※ 表示輕負荷使用。

※ means used for light loading.

◆ 亦可訂製其他不定減速比。

Other ratios are available upon request.

◆ 以下減速比屬於標準品，其餘皆屬於特殊品。

齒輪減速機實際減速比對照表 Actual Ratio Table

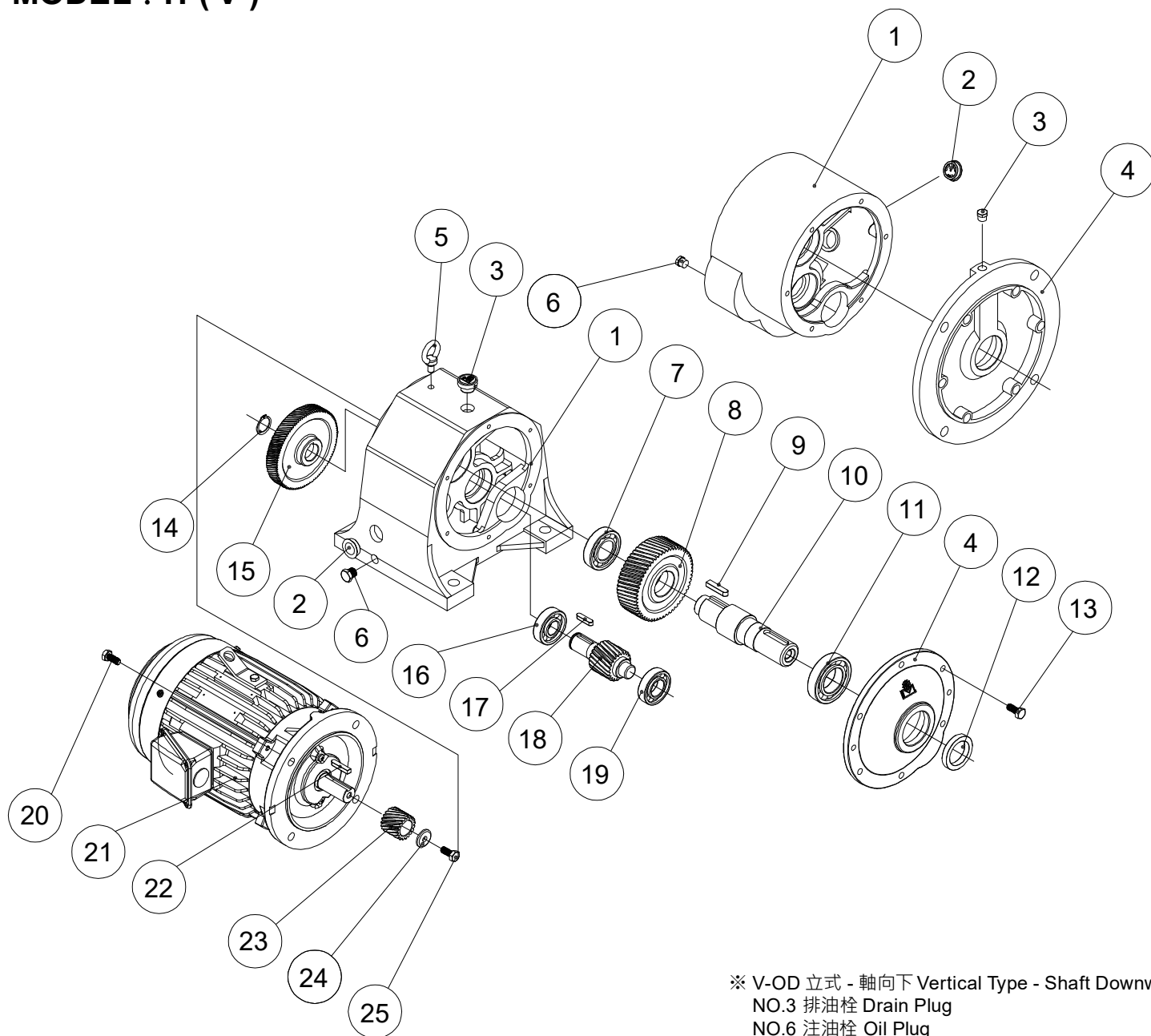
型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio	型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio	型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio				
201	1/4	5	5.00	209	3	15	15.07	215	15	15	15.20				
		10	10.09			20	20.00			20	19.95				
		15	14.89			25	24.00			25	25.24				
		20	20.57			30	29.97			30	30.07				
		25	24.92	2	35	35.37	20			5	5.09				
		30	30.39		40	38.50				10	9.69				
202	1/2	5	5.	209S	3	15	15.13	216	20	15	15.20				
		10	10.09			20	19.51			20	19.95				
203	1/4	35	34.86			25	24.55			25	25.24	25	5	5	5.09
		40	39.35			30	29.25			10	9.69				
	1/2	15	15.25	210		5	4.98			217	30	5	5	5.03	
		20	20.08			10	10.00						10	10.07	
25		24.62	210S	5	5	5.02	15	15.05							
30	30.02	10			9.87	20	19.77								
205	1	5	4.99	211	3	35	35.00	218	40				5	5	5.03
		10	9.95			40	39.67							10	10.07
		15	14.90		5	15	15.00			15	15.06				
		20	20.06			20	19.45			20	20.00				
		25	24.16	25		25.05	25			25.45					
		30	29.89	211S	5	30	29.70			30	29.91				
	35	35.20	15			15.00	50	5	5.18						
	40	39.70	20			19.80		10	10.01						
	45	45.10	25			24.00	219	50	10	10.04					
	50	50.87	30	30.30	15	14.84									
206	2	5	4.99	212	7 1/2	5			5.05	20	20.22				
		10	9.95			10			10.09	25	25.06				
207	1	35	35.85	213 213S	7 1/2	15			14.88	60	15	15	14.84		
		40	39.85			20			20.67			20	20.22		
	15	15.00	25			25.28	30	28.74							
	20	20.21	30			29.40	75	5	5.						
	25	25.39	15	5	5.00	10		10.04							
	30	29.16		10	10.05	214 214S	10	15	14.89						
208		5	5.	20	20.67			220	75	15	15.00				
		10	10.09	25	25.28					20	19.90				
209	2	35	34.80	30	29.40					30	29.19				
		40	40.48												

齒輪減速機實際減速比對照表 Actual Ratio Table

型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio	型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio	型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio	型號 Model	馬力 HP (4P)	減速比 Ratio	實際減速比 Actual Ratio			
304	1/4	50	49.47	310	2	40	41.18	312S	2	35	36.88	317	71/2	125	125.00			
		60	59.60			50	50.15			40	39.16			150	151.10			
		70	71.18			60	58.95			50	50.19			160	158.65			
		90	92.89			70	70.68			60	60.95			170	173.60			
		100	100.03			80	80.29			70	70.3			190	190.38			
		120	120.59			90	92.70			80	84.58			200	200.40			
		150	147.85			100	100.42			90	89.87		15	40	43.82			
	1/2	40	38.03			120	120.82			100	99.53			50	49.50			
		50	49.47			3	40			41.18	60			60.06	60	60.06		
306	1/4	150	149.11	310S	1	50	49.38	314 314S	3	140	141.97	318	10	80	79.80			
		180	181.69			130	131.21			150	149.86			90	90.48			
		200	197.85			150	147.67			170	167.62			100	100.00			
	1/2	40	42.84		180	183.25	180		184.42	120	119.05							
		50	50.59		2	40	41.81		200	204.29	20			40	43.82			
		60	59.28			50	50.25		60	62.45				50	49.50			
		70	69.47			60	60.4		70	72.55			10	150	148.83			
		80	79.43			70	69.12		80	81.99	165			165.07				
		90	90.05			80	81.96		90	90.43	180			179.30				
		100	100.10			90	90.25		100	100.53	190			189.42				
		120	119.94			100	98.32		120	122.96	195			195.35				
		308	1/2			100	101.56		312	2	120			121.91	315	71/2	35	33.60
120	121.62			60		60.20	40	44.19			40	40.62						
150	146.70			100	100.50	50	52.19	60			60.13							
200	199.51			120	120.92	150	150.43	70			69.63							
1	40		40.18	140	145.35	165	166.15	5			180	180.04	25、30	80		83.33		
	50		50.46	150	153.42	180	180.04				200	201.14		90		92.93		
	60		59.06	165	163.22	200	201.14				100	98.83		120		120.33		
	70		68.63	170	166.57	40	40.56				120	120.33		40		40.62		
	80		81.04	180	179.54	50	51.78	60			60.89	50		48.62				
	90		90.14	190	189.52	70	68.63	70			68.63	60		60.13				
	100		100.75	200	200.22	80	79.13	80			79.13	20	150	152.33				
	120		120.90	60	58.86	90	88.40	90			88.40		175	175.64				
2	35	36.55	70	71.25	100	100.58	100	100.58	200	201.19								
	40	40.18	80	80.75	120	118.76	120	118.76	60	61.01								
310	1	50	50.32	312S	3	90	91.10	316	10	35	35.16	319	25、30	70	69.56			
		80	80.29			40	40.56			40	40.56			100	98.09			
		100	100.42			50	51.78			50	51.78			40	40.20			
		120	120.82			60	60.89			60	60.89			50	48.91			
		140	136.07		70	68.63	70			68.63	60			61.01				
		150	148.82		80	79.13	80			79.13	40			40	40.20			
		160	161.23		90	88.40	90		88.40	50			48.91					
		170	175.88		100	100.58	100		100.58	60			61.01					
		180	178.59		120	118.76	120		118.76	15			35	35.16				
		312S	1		140	140.4	140		140.4				35	35.16	40	40.56		
					150	150.68	150		150.68				40	40.56	40	40.56		
					200	197.77	200		197.77		50		51.78	50	51.78			
316	10			60	60.89	60	60.89	60	60.89		60	60.89						
				70	68.63	70	68.63	70	68.63		70	68.63						
				80	79.13	80	79.13	80	79.13	80	79.13							
		100	100.58	100	100.58	100	100.58	100	100.58									
		120	118.76	120	118.76	120	118.76	120	118.76									
		150	178.59	150	178.59	150	178.59	150	178.59									

雙段式分解系統圖 2-Stage System Drawing

MODEL : H (V)



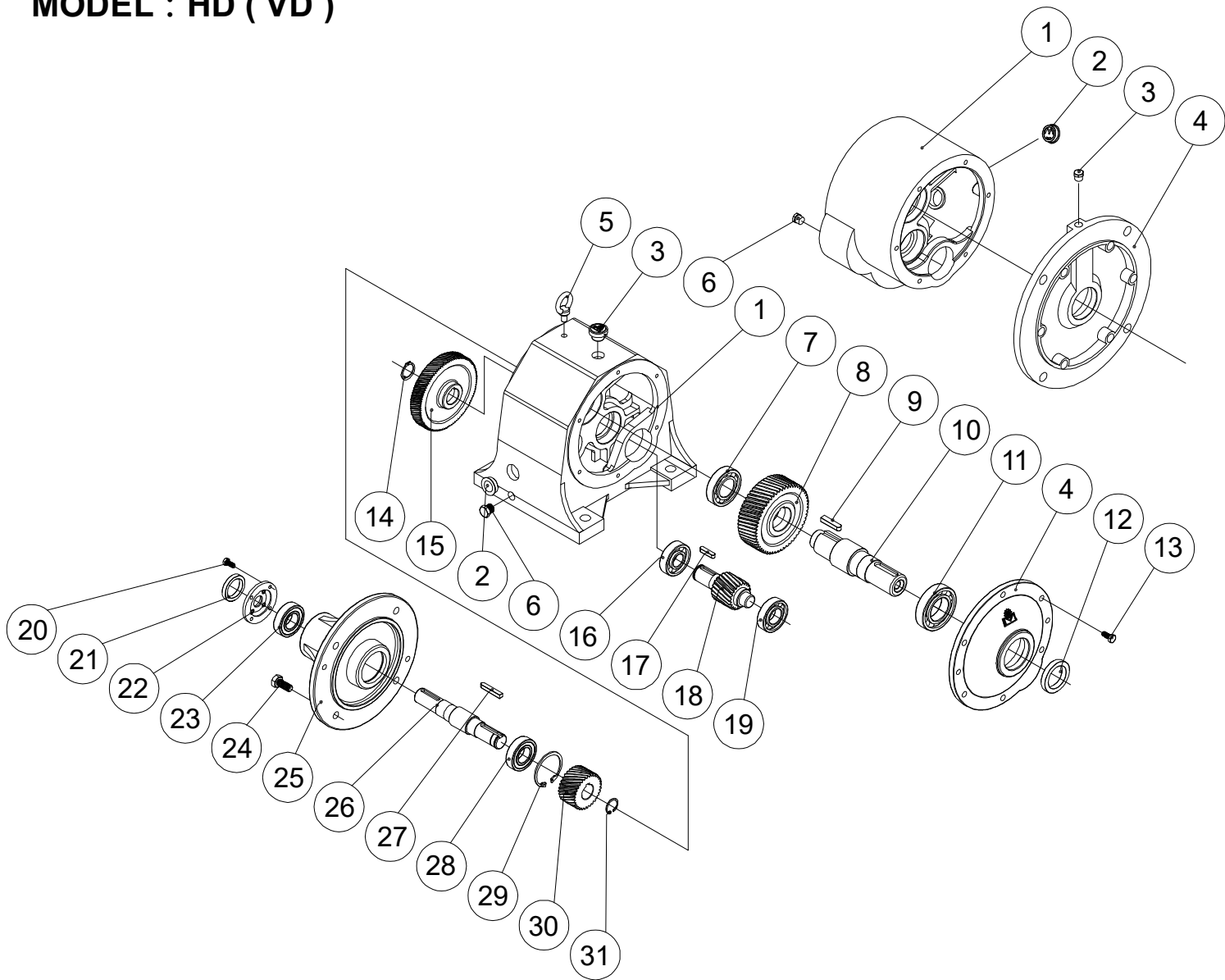
※ V-OD 立式 - 軸向下 Vertical Type - Shaft Downward
 NO.3 排油栓 Drain Plug
 NO.6 注油栓 Oil Plug

NO.	零件名稱	Name of Parts
1	本體	Outer Shell
2	油鏡	Oil Gauge
※3	注油栓	Oil Plug
4	前蓋	Front Cover
5	吊環	Hoisting Ring
※6	排油栓	Drain Plug
7	軸承	Bearing
8	D 齒輪	D Gear
9	鍵	Key
10	出力軸	Output Shaft
11	軸承	Bearing
12	油封	Oil Seal
13	立式：內六角螺絲 臥式：外六角螺絲	Vertical: Hex Socket Cap Screw Horizontal: Hex Head Cap Screw

NO.	零件名稱	Name of Parts
14	扣環	Snap Ring
15	B 齒輪	B Gear
16	軸承	Bearing
17	鍵	Key
18	C 齒輪軸	C Gear Shaft
19	軸承	Bearing
20	六角螺絲	Hexagon Head Bolt
21	馬達	Motor
22	鍵	Key
23	A 齒輪	A Gear
24	華司 (或扣環)	Washer (or Snap Ring)
25	六角螺絲	Hexagon Head Bolt

雙段式分解系統圖 2-Stage System Drawing

MODEL : HD (VD)



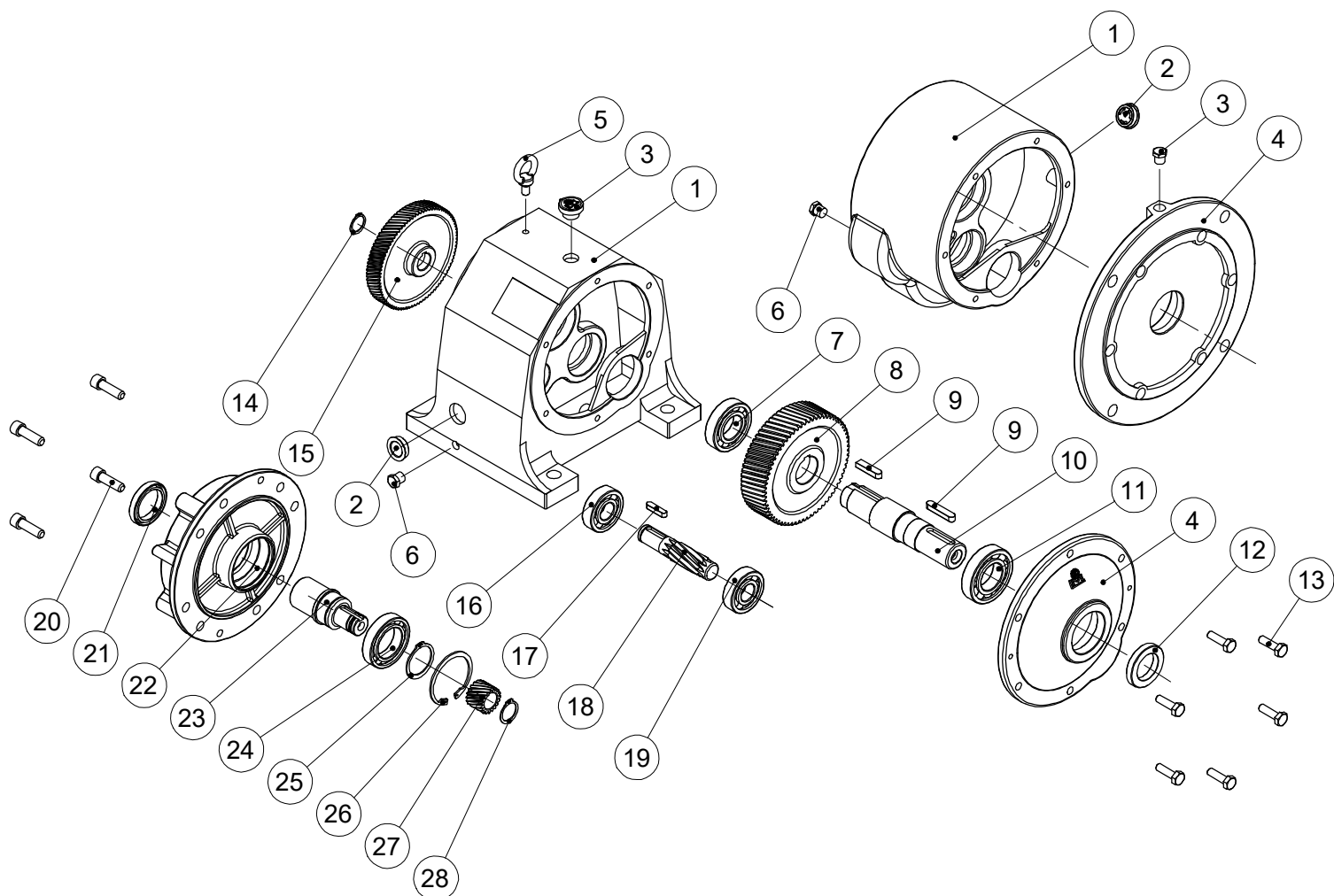
※ VD-OD 立式 - 軸向下 Vertical Type - Shaft Downward
 NO.3 排油栓 Drain Plug
 NO.6 注油栓 Oil Plug

NO.	零件名稱	Name of Parts
1	本體	Outer Shell
2	油鏡	Oil Gauge
※3	注油栓	Oil Plug
4	前蓋	Front Cover
5	吊環	Hoisting Ring
※6	排油栓	Drain Plug
7	軸承	Bearing
8	D 齒輪	D Gear
9	鍵	Key
10	出力軸	Output Shaft
11	軸承	Bearing
12	油封	Oil Seal
13	立式：內六角螺絲 臥式：外六角螺絲	Vertical: Hex Socket Cap Screw Horizontal: Hex Head Cap Screw

NO.	零件名稱	Name of Parts
16	軸承	Bearing
17	鍵	Key
18	C 齒輪軸	C Gear Shaft
19	軸承	Bearing
20	六角螺絲	Hexagon Head Bolt
21	油封	Oil Seal
22	小蓋 (71/2HP 以上使用)	Small Cover of 71/2 HP above
23	軸承	Bearing
24	六角螺絲	Hexagon Head Bolt
25	入力軸大蓋	Big Cover
26	入力軸	Input Shaft
27	鍵	Key
28	軸承	Bearing
29	扣環	Snap Ring

雙段式分解系統圖 2-Stage System Drawing

MODEL : HB (VB)



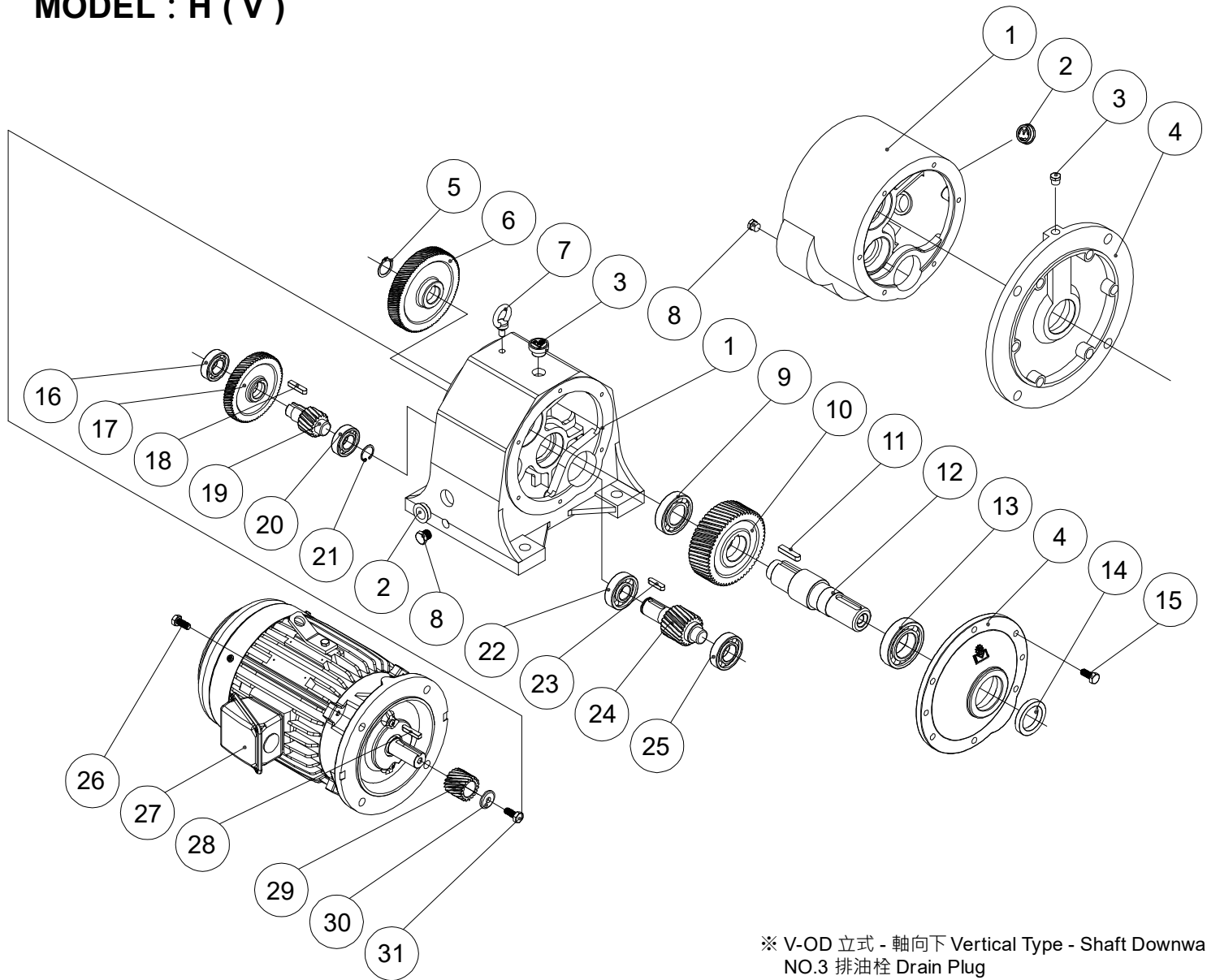
※ V-OD 立式 - 軸向下 Vertical Type - Shaft Downward
 NO.3 排油栓 Drain Plug
 NO.6 注油栓 Oil Plug

NO.	零件名稱	Name of Parts
1	本體	Outer Shell
2	油鏡	Oil Gauge
※3	注油栓	Oil Plug
4	前蓋	Front Cover
5	吊環	Hoisting Ring
※6	排油栓	Drain Plug
7	軸承	Bearing
8	D 齒輪	D Gear
9	鍵	Key
10	出力軸	Output Shaft
11	軸承	Bearing
12	油封	Oil Seal
13	立式：內六角螺絲 臥式：外六角螺絲	Vertical: Hex Socket Cap Screw Horizontal: Hex Head Cap Screw

NO.	零件名稱	Name of Parts
14	扣環	Snap Ring
15	B 齒輪	B Gear
16	軸承	Bearing
17	鍵	Key
18	C 齒輪軸	C Gear Shaft
19	軸承	Bearing
20	六角螺絲	Hexagon Head Bolt
21	油封	Oil Seal
22	馬達盤	Motor Flange
23	輔助軸心	Auxiliary shaft
24	軸承	Bearing
25	扣環	Snap Ring
26	R 扣環	R Snap Ring
27	A 齒輪	A Gear

三段式分解系統圖 3-Stage System Drawing

MODEL : H (V)



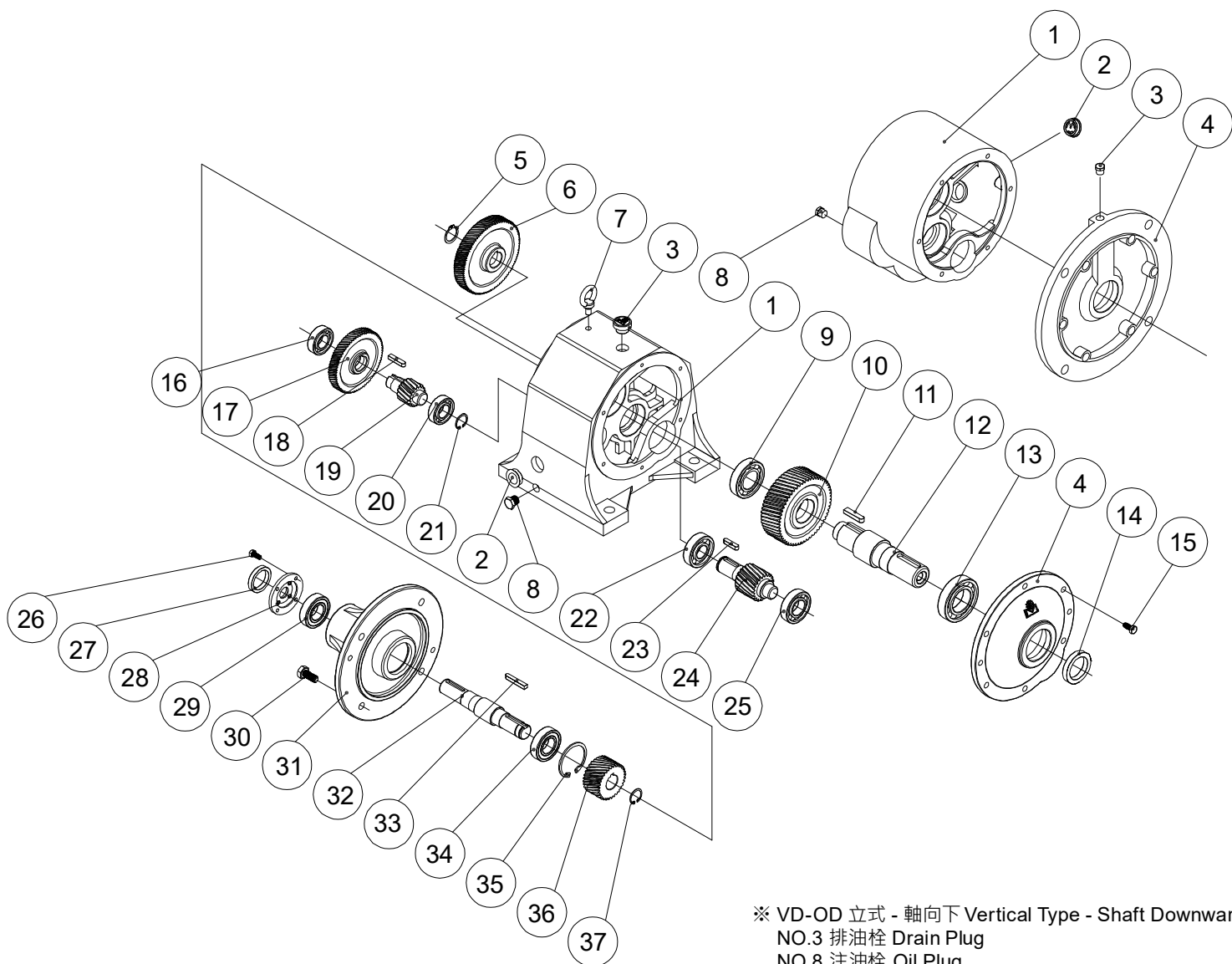
※ V-OD 立式 - 軸向下 Vertical Type - Shaft Downward
 NO.3 排油栓 Drain Plug
 NO.8 注油栓 Oil Plug

NO.	零件名稱	Name of Parts
1	本體	Outer Shell
2	油鏡	Oil Gauge
※3	注油栓	Oil Plug
4	前蓋	Front Cover
5	扣環	Snap Ring
6	B'(F) 齒輪	B'(F) Gear
7	吊環	Hoisting Ring
※8	排油栓	Drain Plug
9	軸承	Bearing
10	D 齒輪	D Gear
11	鍵	Key
12	出力軸	Output Shaft
13	軸承	Bearing
14	油封	Oil Seal
15	後蓋	Rear Cover
16	軸承	Bearing
17	B 齒輪	B Gear
18	鍵	Key
19	A'(E) 齒輪軸	A'(E) Gear Shaft
20	軸承	Bearing
21	R 扣環	R Snap Ring
22	軸承	Bearing
23	鍵	Key
24	C 齒輪軸	C Gear Shaft
25	軸承	Bearing
26	六角螺絲	Hexagon Head Bolt
27	馬達	Motor
28	鍵	Key
29	A 齒輪	A Gear
30	吊環	Hoisting Ring
31	鎖母	Nut

NO.	零件名稱	Name of Parts
16	軸承	Bearing
17	B 齒輪	B Gear
18	鍵	Key
19	A'(E) 齒輪軸	A'(E) Gear Shaft
20	軸承	Bearing
21	R 扣環	R Snap Ring
22	軸承	Bearing
23	鍵	Key
24	C 齒輪軸	C Gear Shaft
25	軸承	Bearing
26	六角螺絲	Hexagon Head Bolt
27	馬達	Motor
28	鍵	Key
29	A 齒輪	A Gear
30	吊環	Hoisting Ring
31	鎖母	Nut

三段式分解系統圖 3-Stage System Drawing

MODEL : HD (VD)



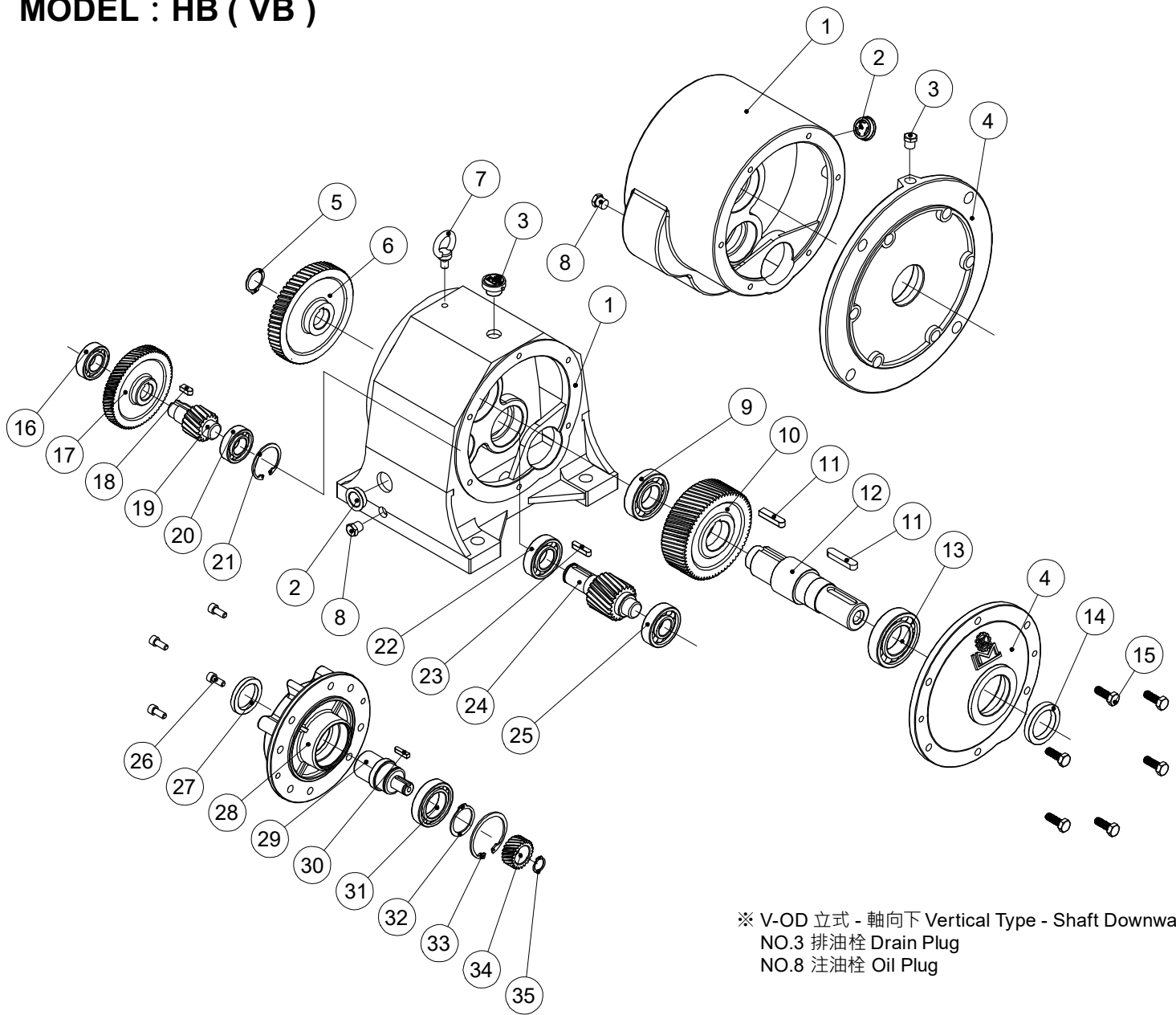
※ VD-OD 立式 - 軸向下 Vertical Type - Shaft Downward
 NO.3 排油栓 Drain Plug
 NO.8 注油栓 Oil Plug

NO.	零件名稱	Name of Parts
1	本體	Outer Shell
2	油鏡	Oil Gauge
※3	注油栓	Oil Plug
4	前蓋	Front Cover
5	扣環	Snap Ring
6	B'(F) 齒輪	B'(F) Gear
7	吊環	Hoisting Ring
※8	排油栓	Drain Plug
9	軸承	Bearing
10	D 齒輪	D Gear
11	鍵	Key
12	出力軸	Output Shaft
13	軸承	Bearing
14	油封	Oil Seal
15	立式：內六角螺絲 臥式：外六角螺絲	Vertical: Hex Socket Cap Screw Horizontal: Hex Head Cap Screw
16	軸承	Bearing
17	D 齒輪	D Gear

NO.	零件名稱	Name of Parts
19	A'(E) 齒輪軸	A'(E) Gear Shaft
20	軸承	Bearing
21	扣環	Snap Ring
22	軸承	Bearing
23	鍵	Key
24	C 齒輪軸	C Gear Shaft
25	軸承	Bearing
26	六角螺絲	Hexagon Head Bolt
27	油封	Oil Seal
28	小蓋 (71/2HP 以上使用)	Small Cover of 71/2 HP above
29	軸承	Bearing
30	六角螺絲	Hexagon Head Bolt
31	入力軸大蓋	Big Cover
32	入力軸	Input Shaft
33	鍵	Key
34	軸承	Bearing
35	扣環	Snap Ring
36	C 齒輪	C Gear
37	出力軸	Output Shaft

三段式分解系統圖 3-Stage System Drawing

MODEL : HB (VB)



※ V-OD 立式 - 軸向下 Vertical Type - Shaft Downward
 NO.3 排油栓 Drain Plug
 NO.8 注油栓 Oil Plug

NO.	零件名稱	Name of Parts
1	本體	Outer Shell
2	油鏡	Oil Gauge
※3	注油栓	Oil Plug
4	前蓋	Front Cover
5	扣環	Snap Ring
6	B'(F) 齒輪	B'(F) Gear
7	吊環	Hoisting Ring
※8	排油栓	Drain Plug
9	軸承	Bearing
10	D 齒輪	D Gear
11	鍵	Key
12	出力軸	Output Shaft
13	軸承	Bearing
14	油封	Oil Seal
15	立式: 內六角螺絲 臥式: 外六角螺絲	Vertical: Hex Socket Cap Screw Horizontal: Hex Head Cap Screw

NO.	零件名稱	Name of Parts
18	鍵	Key
19	A'(E) 齒輪軸	A'(E) Gear Shaft
20	軸承	Bearing
21	R 扣環	R Snap Ring
22	軸承	Bearing
23	鍵	Key
24	C 齒輪軸	C Gear Shaft
25	軸承	Bearing
26	六角螺絲	Hexagon Head Bolt
27	油封	Oil Seal
28	馬達盤	Motor Flange
29	輔助軸心	Auxiliary shaft
30	鍵	Key
31	軸承	Bearing
32	扣環	Snap Ring
33	R 扣環	R Snap Ring

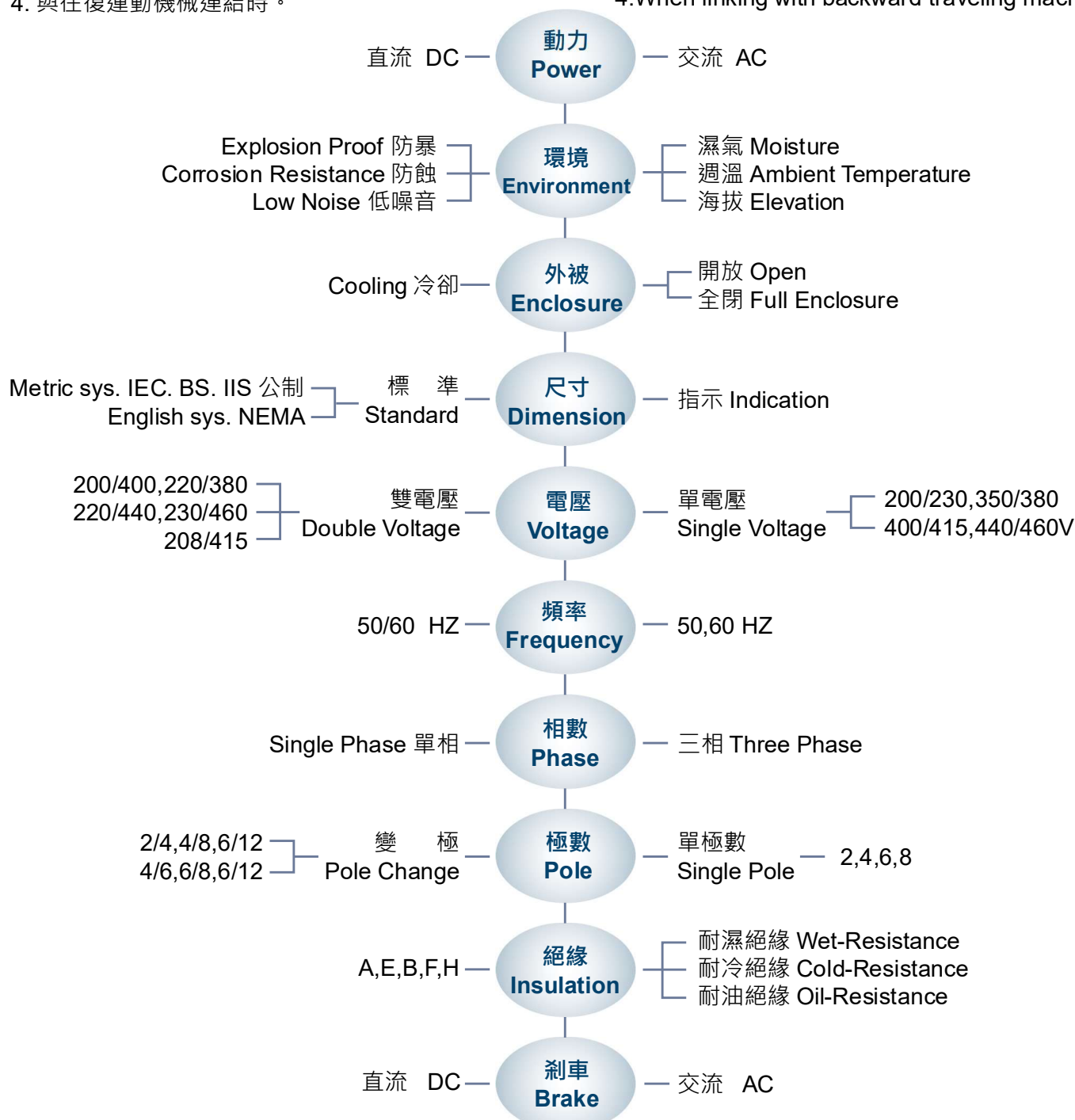
馬達選擇 Selection of Motor

一般注意事項

- ◆ 電源：單相、三相、電壓週率、變壓器容量等。
- ◆ 負載機械：所需馬力數，負載轉矩特性。
- ◆ 特殊使用條件：
 1. 急速逆轉或停止。
 2. 啟動停止頻繁。
 3. 需特別大之啟動轉矩。
 4. 與往復運動機械連結時。

General Notices

- ◆ Electricity: Single phase, 3 phase, voltage frequency, capacity of transformer, etc.
- ◆ Loading machine: Required horsepower, load torque characteristics.
- ◆ Special Conditions of Use:
 1. Rush reverse or stop.
 2. Frequent start-up or stop.
 3. Specially large Start-up torque required.
 4. When linking with backward traveling machinery.



◆ 齒輪減速機之標準品使用低壓、三相感應馬達、IEC 尺寸、全封閉外扇鼠籠型轉子。
 Standard gear reducers use low voltage, 3 phase induction motor, IEC dimension, full-enclosed outer fan cage rotor.

■ 減速機安裝 Usage and Installation

使用前請檢查

- ◆ 檢查機種、型號、馬力、軸方向、減速比回轉方向及入力軸出力軸回轉數是否符合。
- ◆ 注意檢查注油情況，先確定是否有油，並保持油量在油面計一半以上。
- ◆ 使用前請拔掉加油蓋上的插梢。

場所

- ◆ 須裝置於平且堅固的底部。
- ◆ 安裝之環境須乾燥且通風良好，周圍溫度 0°C ~40°C 異常高溫或低溫時請註明。

連結方式

- ◆ 當聯接器用以聯接入力或出力軸時，須確實固定並務使兩軸平行，底座須以適當螺栓，確保鎖固緊密。
- ◆ 所有配備均應輕裝於軸上，勿使用鐵鎚，並避免裝配過緊而引起軸承損壞。
- ◆ 滑輪、鏈輪或齒輪在裝配時應盡量靠近軸承以減少彎曲應力。使用適當大小（在出力軸徑的 6 倍以內）與出力軸連接之鍊輪，皮帶輪等請配合 H7 公差使用，可避免發出異聲與軸面受損。
- ◆ VB、HB 型入力孔可加添適當黃油，避免孔徑過度磨損及發出異聲。
- ◆ 軸面可塗上防鏽塗料避免生鏽。

馬達

- ◆ 電源電壓變動大於 10% 時，馬達會有燒燬之虞，並使出力軸扭力降低或異常。
- ◆ 馬達超負荷使用有燒燬之虞。
- ◆ 馬達結線錯誤會導致馬達燒燬。
- ◆ 濕氣過重的環境會使剎車馬達的剎車器產生鏽蝕失去剎車功能。
- ◆ 搭配變頻器使用時，如當使用於低頻，請使

Check Before Operating

- ◆ Check if the type, model No., horsepower, shaft direction, reduction ratio, revolution direction and input/output shaft revolutions are in accordance with the standard.
- ◆ Check carefully the oil level to make sure that the oil volume is sufficient and maintain above the middle of oil gauge.
- ◆ Please pull the pin out of the plug lid before use.

Place

- ◆ A flat and solid base is one of the requirements for installation.
- ◆ The environment for installation shall be dry and well ventilated, with ambient temperature at 0°C to 40°C. Abnormal high or low temperature shall be dedicated.

Connecting Method

- ◆ If coupler is used to connect input or output shaft, make sure they are firmly fixed and paralleled. The base seat shall be anchored with proper bolts.
- ◆ All of the components shall be properly assembled to the shaft. Avoid hammering and over-tight assembly which could damage the bearing.
- ◆ The pulley, chain pulley and gear shall be assembled as close to the bearing as possible to minimize the curving stress. The chain pulley and belt pulley used to connect the output shaft shall be properly chosen (within 6 times as large as the diameter of output shaft) and used in accordance with H7 tolerance so as to keep out of abnormal noise and harm to the shaft surface.
- ◆ Proper amount of grease can be applied to VB and HB input hole to ensure the hole against over-wearing and making abnormal noise.
- ◆ The application of anti-rust paint can keep the shaft from rusting.

Motor

- ◆ The voltage variation over 10% could cause motor to burn out and reduce the torque of output shaft.
- ◆ Motor is subject to damage due to overload.
- ◆ Improper connection could cause motor to burn out.
- ◆ High-moisture environment could cause the brake of motor rusted and disabled.
- ◆ An appropriate motor shall be applied with the frequency converter while the low frequency is

安裝方向 Installation Direction

油面計
Oil Indicator

注油栓
Oil Plug

排油栓
Oil Drain Plug

◆ 正常的使用方向可以使減速機保持較高的壽命。

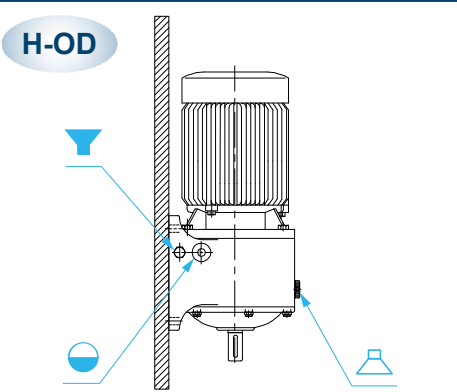
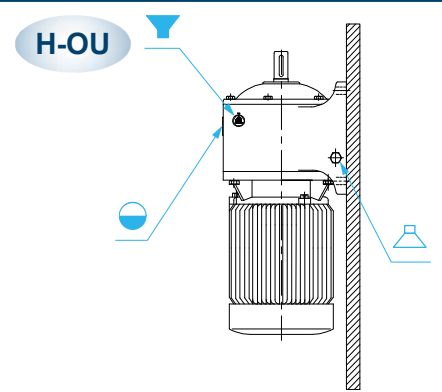
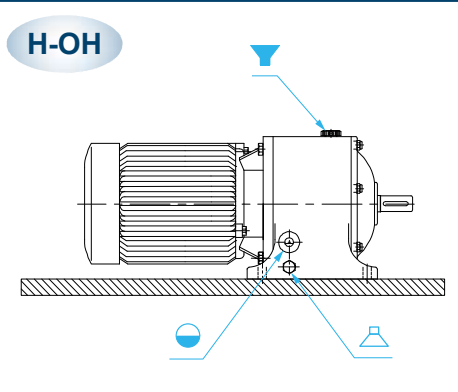
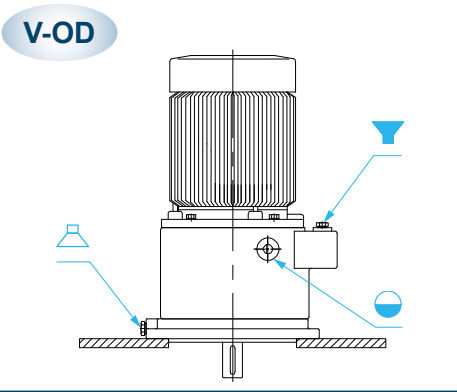
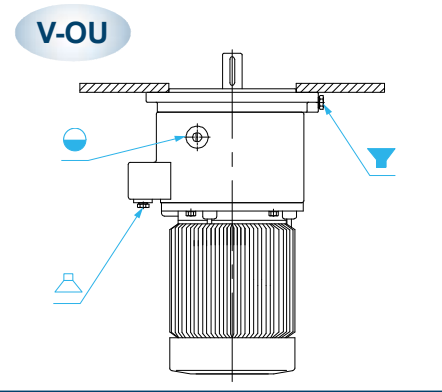
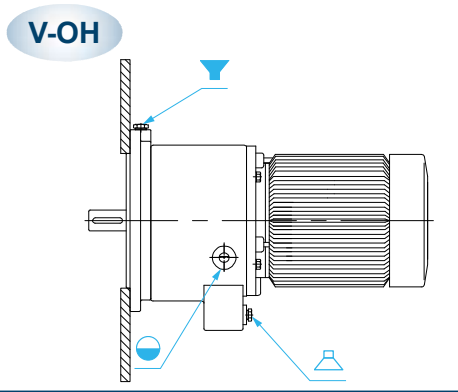
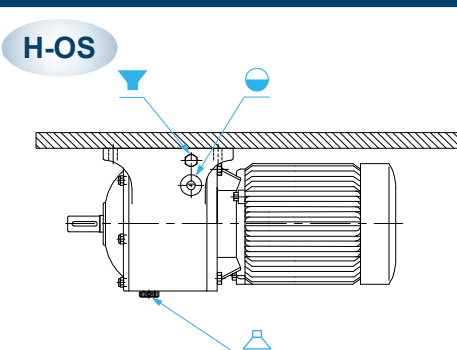
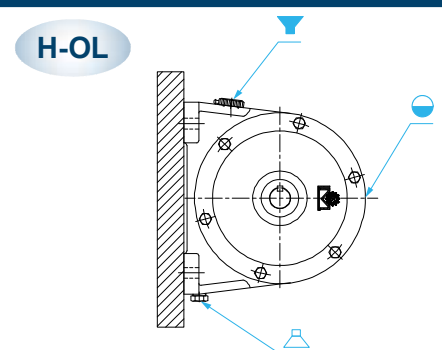
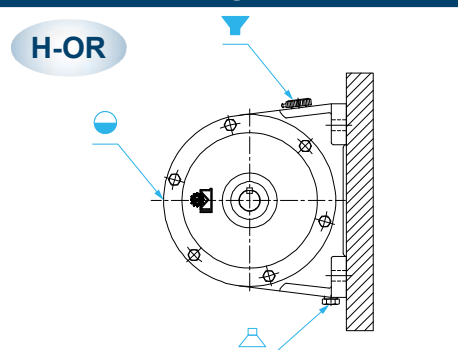
The life time of gear reducer can be prolonged in proper direction.

◆ 安裝時請注意油面計、注油栓及排油栓的位置以便日後維護。

Please note the positions of oil gauge, oil filling plug and oil drain plug to facilitate the maintenance afterwards.

◆ 減速機使用方向特殊時，請與我們連繫。

For special installation direction, please contact us.

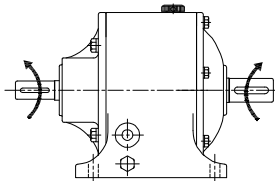
Type	軸向下 Shaft Downward	軸向上 Shaft Upward	軸水平 Shaft Horizontal
臥式 Horizontal			
立式 Vertical			
Type	倒吊安裝 Inverse Installation	左側壁 On Left Side Wall	右側壁 On Right Side Wall
臥式 Horizontal			

◆ 正常的使用方向可使減速機保持較高的壽命，非不得已的情況下盡量不要採用 H-OU 的方式，因入力軸端的油封在高速運轉下，較出力軸端的油封容易損壞，而導致潤滑油由油封滲出，如須採用請註明，以特別處理。

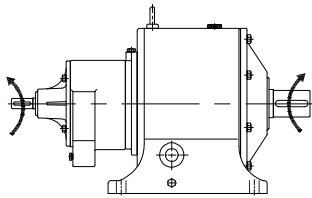
The life time of gear reducer can be prolong with proper operation. Unless otherwise specified, H-OU types of operation shall be avoid as much as possible, because the oil seal of input shaft could be damaged more easily than output shaft and thus result in leakage.

出力軸迴轉方向

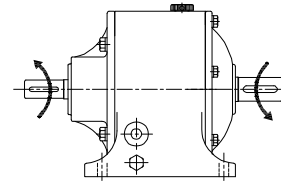
雙段式齒輪減速機的迴轉方向與入力的方向相同，
三段式齒輪減速機的迴轉方向與入力的方向相反。
多速比以配齒設計後，確認段數為準。



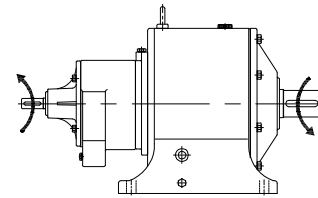
雙段式 (2-Stage) 1/3~1/30



四段式 (4-Stage)
六段式 (6-Stage)



三段式 (3-Stage) 1/40~1/200



五段式 (5-Stage)

Revolving Direction of Output Shaft

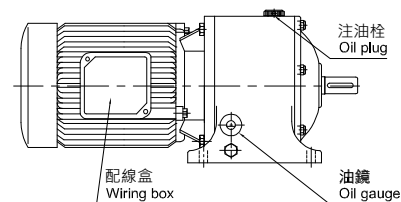
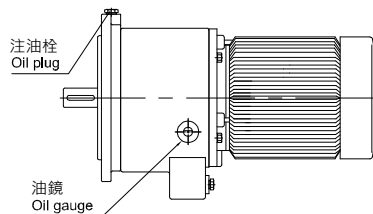
2-stage gear reducer revolves in the same direction as the input shaft, while 3-stage gear reducer does in the opposite direction.

馬達配線盒位置

安裝方向注意潤滑油加油便利，油量計可看見且配線容易，正常情況下，附馬達之減速機其配線盒位置、油鏡及注油栓位置如下圖，如有不同時，請註明。

◆ 標準配線盒、油鏡及加油口位置

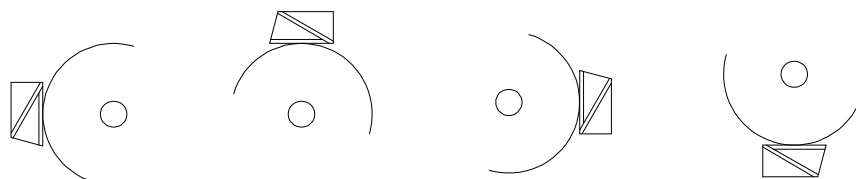
Standard positions of wiring box, oil gauge, and oil filling entrance.



◆ 馬達配線盒之選擇 (以面向出力軸為準)

Selection of motor wiring box (based on output shaft)

◆ 訂購時，請註明。For any order, please specify your need clearly.



Position of Motor Wiring Box

Be aware that the installation direction of wiring box shall facilitate the filling of lubricant, the visibility of oil level and wiring. In normal condition, the positions of motor wiring box, oil gauge and oil plug is as shown below, unless otherwise specified.

潤滑油之選定 Selection of Lubricant Oil

適當潤滑油的黏度，須使齒輪磨擦容易，遇高負荷及衝擊負荷時，減速機才能充分發揮其機能。下表即 "利明牌" 減速機潤滑油的選定：

Proper viscosity of lubricant is contributive to ease the friction of gears, so the speed reducer can fully apply its function in the case of high load or impact load. The table below shows the selection of lubricants for LIMING speed reducers:

荷重 (Load)	中國石油國光牌極壓機油 CPC E.P. LUBRICANT				SHELL OIL	MOBIL OIL	ISO VG	
	Grade No.	黏度 (Cst) Viscosity		流動點 Pour Point				閃火點 Flash Point
		40°C	100°C					
普通荷重 Common Load	HD-150	143.6	14.38	-18°C	264°C	OMALA OIL 150	MOBIL GEAR 629	ISO VG EP 150
	HD-320	310.5	23.7	-18°C	290°C	OMALA OIL 320	MOBIL GEAR 632	ISO VG EP 320
	HD-460	440.4	29.8	-18°C	310°C	OMALA OIL 460	MOBIL GEAR 634	ISO VG EP 460
超荷重 Heavy Load	HD-320	310.5	23.7	-18°C	290°C	OMALA OIL 320	MOBIL GEAR 632	ISO VG EP 320
	HD-460	440.4	29.8	-18°C	310°C	OMALA OIL 460	MOBIL GEAR 634	ISO VG EP 460
	HD-680	656.2	38.68	-12°C	316°C	OMALA OIL 680	MOBIL GEAR 636	ISO VG EP 680

注意事項

- ◆ 本公司出廠減速機，使用 ISO VG 460 的極壓機油。
- ◆ 最初使用 300 小時後，洗淨內部、換上新油以後每 2500 小時換油。
- ◆ 在高速、高溫、低速、重荷重、強制潤滑等特殊情況下使用場合，請與本公司洽商。
- ◆ 潤滑油不足可能導致噪音和齒輪快速磨損。
- ◆ 潤滑油過多可能導致漏油。
- ◆ 請加入適當潤滑油至油量計一半以上 (請參考油量表)。
- ◆ 請檢視油鏡，如油品已經變黑混濁或異味，請更換油品。

Notice

- ◆ LI MING speed reducers use ISO VG 460 lubricant oil.
- ◆ After initial 300 hours of use, clean the internal part and replace with new lubricant; then, do it every 2500 hours.
- ◆ If use in the special conditions of high speed, high temperature, low speed, heavy load, and forced lubrication, please contact the company.
- ◆ Could cause noise and fast abrasion of gears.
- ◆ Excessive lubricant could result in leakage.
- ◆ Please feed proper lubricant above half of the oil meter (see oil gauge).
- ◆ Refill the lubricant if it is deteriorated.

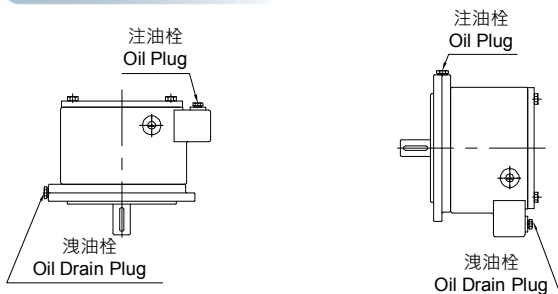
■ 油量表 Oil Capacities (unit: ℓ)

Type Dirction Model	V		VD		VB	
	OH	OD	OH	OD	OH	OD
201	0.3	0.5	0.3	0.5	0.3	0.5
202	0.3	0.5	0.3	0.5	0.3	0.5
203	0.5	1	0.5			
205	1	2	1	2	1	2
206	1	2	1	2	1	2
207	1.5	3	1.5	3	1.5	3
208	1.5	3	1.5	3	1.5	3
209·209S	2	4	2	4	2	4
210·210S	2	4	2	4	2	4
211	3	8	3	8	3	8
211S	2	4	2	4	2	4
212	3	8	3	8	3	8
213·213S	5	12	5	12	5	12
214·214S	5	12	5	12	5	12
215	8	20	8	20	8	
216	8	20	8	20	8	
217	10	24	10	24	10	24
218	12	30	12	30	12	30
219	32	55	32	55	32	55
304	0.5	1	0.5	1	0.5	
306	1	2	1	2	1	2
308	1.5	3	1.5	3	1.5	3
310·310S	2	4	2	4	2	4
312	3	8	3	8	3	8
312S	2	4	2	4	2	4
314·314S	5	12	5	12	5	12
315	8	20	8	20	8	
316	8	20	8	20	8	
317	10	24	10	24	10	24
318	12	30	12	30	12	30
319	32	55	32	55	32	55

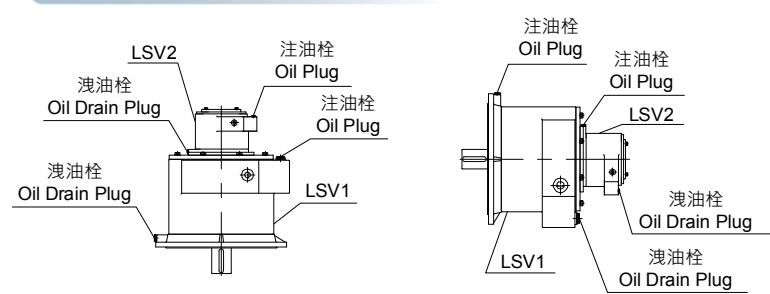
Type Dirction Model	LSV				LSVD			
	OH		OD		OH		OD	
	LSV1	LSV2	LSV1	LSV2	LSV1	LSV2	LSV1	LSV2
406	0.8	0.3	2	0.5	1	0.3	2	0.5
408	1.5	0.5	3	1	1.5	0.5	3	1
410·410S	2	1	4	2	2	1	4	2
412	3	1	8	2	3	1		
412S	2	1	4	2	2	1	4	2
414·414S	5	2	12	4	5	2	12	4
416	8	2	20	4	8	2	2	
417	10	3	24	8	10	3	24	8
418	12	3	30	8	1			
508	1.5	0.5	3	1	1.5	0.5	3	1
510·510S	2	1	4	2	2	1	4	2
512	3	1	8	2	3	1		
512S	2	1	4	2	2	1	4	2
514·514S	5	1	12	3	5	1	12	3
516	8	2	20	4	8	2	20	
517	10	3	24	8	10	3	24	8
518	12	3	30	8	1			
610·610S	2	1	4	1	2	1	4	1
612	3	1	8	2	3	1		
612S	2	1	4	1	2	1	4	2
614·614S	5	1	12	3	5	1	12	3
616	8	2	20	4	8	2	20	4
617	10	3	24	8	10	3	24	8
618	12	3	30	8	12	3	3	

- ◆ 立式減速機依使用方向的不同而使用不同的油量，而油鏡及洩油孔位置亦不同，訂貨時請註明使用方向。
The capacity of lubricant oil and the positions of oil gauge and drain hole for the vertical speed reducers are based on use direction. Please indicate the intended use direction when ordering.
- ◆ 臥式減速機之油量請參閱尺寸表。
Please refer to the table below for the lubricant oil.

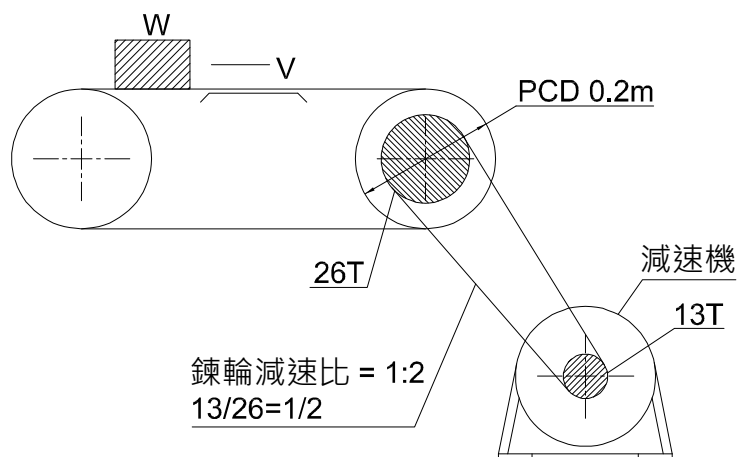
立式 Vertical



立式連結式 Multi-Stage



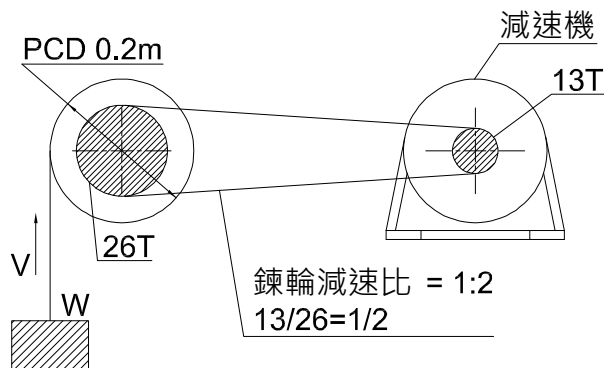
選型計算範例一 Example 1



- ◆搬運物總重量 Total Weight of Cargo:
W=600kg
- ◆搬送速度 Carrying Speed:
V=9.5m/min
- ◆與導軌之摩擦係數 Friction Coefficient to Guiding Rail:
 $\mu=0.15$
- ◆鍊輪傳動效率 Chain Pulley Transmission Coefficient:
 $\eta_1=0.95$
- ◆減速機傳動效率 Gear Reducer Transmission Coefficient:
 $\eta_2=0.9$
- ◆運轉時間 Operation Time:
8 小時 / 日 8 hours / day
- ◆啟動次數 Start Frequency:
1 回 / 分, 中衝擊 1 time/min., medium shock
- ◆使用電源 Power:
三相 220V, 60Hz 3 phase 220V, 60Hz

減速比 Ratio	選定之注意事項 Notices Calculation Example	計算範例 Load Condition Notices Calculation Example																										
	<p>藉由必要的人力軸回轉數及出力軸回轉數來選定減速比</p> <ol style="list-style-type: none"> 1. 先求出輸送帶滾輪回轉數 (N1) $N1 = \text{搬送速度} / (\text{滾輪直徑} \times \pi)$ 2. 再求出減速機出力軸回轉數 (N2) $N2 = N1 \times (\text{鍊輪齒數} / \text{減速機齒數})$ 3. 以 3ϕ, 60Hz 之馬達計算減速比 (τ) $\tau = \text{出力軸回轉數} / \text{入力軸回轉數} (\text{馬達轉速} N)$ <p>Reduction Ratio Notices Calculation Example The reduction ratio is based on input/output shaft revolutions.</p> <ol style="list-style-type: none"> 1. Find the revolution of conveyer pulley (N1) first $N1 = \text{carrying speed} / (\text{pulley } D \times \pi)$ 2. Find the output shaft revolution of gear reducer (N2) $N2 = N1 \times (\text{chain pulley speed} / \text{gear number of reducer})$ 3. Calculate reduction ratio (τ) based on 3ϕ, 60Hz motor $\tau = \text{output shaft revolution} / \text{input shaft revolution} (\text{motor RPM } N)$ 	$1. N1 = V / (D \times \pi)$ $= 9.5 / (0.2 \times 3.14)$ $= 15 \text{ r/min (RPM)}$ $2. N2 = N1 \times (26 / 13)$ $= 15 \times 2 / 1$ $= 30 \text{ r/min (RPM)}$ $3. \tau = N2 / N$ $= 30 / 1800 = 1/60$ <p>(馬達轉速, motor RPM, input RPM)</p>																										
扭力 Torque	<p>決定減速比後, 由使用機械之條件換算其扭力</p> <ol style="list-style-type: none"> 1. 先算出輸送帶滾輪之扭力 (T1) $T1 = (\mu \times \text{荷重} \times \text{滾輪半徑}) / \eta_1$ 2. 再換算成減速機出力軸所須扭力 (T2) $T2 = (T1 \times \text{鍊輪減速比}) / \eta_2$ <p>After reduction ratio is decided, calculate the torque by the pulley reducers radius condition of the machine used.</p> <ol style="list-style-type: none"> 1. Find the torque of conveyer pulley (T1) $T1 = (\mu \times \text{load} \times \text{pulley radius}) / \eta_1$ 2. Find the torque needed from the output shaft of reducer (T2) $T2 = (T1 \times \text{reduction ratio of chain pulley}) / \eta_2$ 	$1. T1 = \mu \times W (D / 2) / \eta_1$ $= 0.15 \times 600 \times (0.2 / 2) / 0.95 = 9.5 \text{ kgf}\cdot\text{m}$ $2. T2 = (T1 \times (1/2)) / \eta_2$ $= (9.5 \times 1/2) / 0.9 = 5.28 \text{ kgf}\cdot\text{m}$																										
負荷條件 Load conditions	<p>選定之注意事項 Notices Calculation Example</p> <table border="1"> <thead> <tr> <th rowspan="2">原動機 Prime Mover</th> <th rowspan="2">傳動機負荷等級 Driven machine Load Classification</th> <th colspan="4">每日使用時間 Duration of Service Per Day</th> </tr> <tr> <th>0.50 hrs</th> <th>2 hrs</th> <th>8-10 hrs</th> <th>10-24 hrs</th> </tr> </thead> <tbody> <tr> <td rowspan="3">電動機 Electric Motor</td> <td>均一負荷 Uniform</td> <td>0.80</td> <td>0.90</td> <td>1.00</td> <td>1.25</td> </tr> <tr> <td>中衝擊 Medium Shock</td> <td>0.90</td> <td>1.00</td> <td>1.25</td> <td>1.50</td> </tr> <tr> <td>重衝擊 Heavy Shock</td> <td>1.00</td> <td>1.25</td> <td>1.50</td> <td>1.75</td> </tr> </tbody> </table> <p>補正扭力 = 減速機出力軸扭力 x 系數 Corrective torque = reducer shaft torque x coefficient</p>	原動機 Prime Mover	傳動機負荷等級 Driven machine Load Classification	每日使用時間 Duration of Service Per Day				0.50 hrs	2 hrs	8-10 hrs	10-24 hrs	電動機 Electric Motor	均一負荷 Uniform	0.80	0.90	1.00	1.25	中衝擊 Medium Shock	0.90	1.00	1.25	1.50	重衝擊 Heavy Shock	1.00	1.25	1.50	1.75	<p>計算範例 Load Condition Notices Calculation Example</p> $T3 = T2 \times K$ $= 5.28 \times 1.25$ $= 6.6 \text{ kgf}\cdot\text{m}$
原動機 Prime Mover	傳動機負荷等級 Driven machine Load Classification			每日使用時間 Duration of Service Per Day																								
		0.50 hrs	2 hrs	8-10 hrs	10-24 hrs																							
電動機 Electric Motor	均一負荷 Uniform	0.80	0.90	1.00	1.25																							
	中衝擊 Medium Shock	0.90	1.00	1.25	1.50																							
	重衝擊 Heavy Shock	1.00	1.25	1.50	1.75																							
馬力 Horse Power	<p>選定之注意事項 Notices Calculation Example</p> <p>最後換算成馬力 (HP) $HP = (\text{補正扭力} \times \text{出力軸轉數}) / 716.2$</p> <p>Find horse power (HP) $HP = (\text{corrective torque} \times \text{revolution of output shaft}) / 716.2$</p>	<p>計算範例 Load Condition Notices Calculation Example</p> $HP = (T3 \times N2) / 716.2$ $= (6.6 \times 30) / 716.2 = 0.27$ <p>1/2HP 馬達適用 (For 1/2 HP motor)</p>																										

選型計算範例二 Example 2



- ◆搬運物總重量 Total Weight of Cargo:
W=600kg
- ◆搬送速度 Carrying Speed:
V=9.5m/min
- ◆鍊輪傳動效率 Chain Pulley Transmission Coefficient:
 $\eta_1=0.95$
- ◆減速機傳動效率 Gear Reducer Transmission Coefficient:
 $\eta_2=0.9$
- ◆運轉時間 Operation Time:
8 小時 / 日 8 hours / day
- ◆啟動次數 Start Frequency:
1 回 / 分, 中衝擊 1 time/min., medium shock
- ◆使用電源 Power:
三相 220V, 60Hz 3 phase 220V, 60Hz

減速比 Ratio	選定之注意事項 Notices Calculation Example	計算範例 Load Condition Notices Calculation Example
	<p>藉由必要的人力軸回轉數及出力軸回轉數來選定減速比</p> <ol style="list-style-type: none"> 1. 先求出輸送帶滾輪回轉數 (N1) $N1 = \text{搬送速度} / (\text{滾輪直徑} \times \pi)$ 2. 再求出減速機出力軸回轉數 (N2) $N2 = N1 \times \text{鍊輪齒數減速比}$ 3. 以 3ϕ, 60Hz 之馬達計算減速比 (τ) $\tau = \text{出力軸回轉數} / \text{入力軸回轉數} (\text{馬達轉速} N)$ <p>Reduction Ratio Notices Calculation Example The reduction ratio is based on input/output shaft revolutions.</p> <ol style="list-style-type: none"> 1. Find the revolution of conveyer pulley (N1) first $N1 = \text{carrying speed} / (\text{pulley } D \times \pi)$ 2. Find the output shaft revolution of gear reducer (N2) $N2 = N1 \times (\text{chain pulley speed/gear number of reducer})$ 3. Calculate reduction ratio (τ) based on 3ϕ, 60Hz motor $\tau = \text{output shaft revolution} / \text{input shaft revolution} (\text{motor RPM } N)$ 	$1. N1 = V / (D \times \pi)$ $= 9.5 / (0.2 \times 3.14)$ $= 15 \text{ r/min (RPM)}$ $2. N2 = N1 \times i$ $= 15 \times (2/1)$ $= 30 \text{ r/min}$ $3. \tau = \text{出力軸回轉數} / \text{入力軸回轉數}$ $= 30 / 1800 = 1/60$ <p>(馬達轉速, motor RPM, input RPM)</p>
扭力 Torque	<p>決定減速比後, 由使用機械之條件換算其扭力</p> <ol style="list-style-type: none"> 1. 先算出輸送帶滾輪之扭力 (T1) $T1 = (\mu \times \text{荷重} \times \text{滾輪半徑}) / \eta_1$ 2. 再換算成減速機出力軸所須扭力 (T2) $T2 = (T1 \times \text{鍊輪減速比}) / \eta_2$ <p>Torque Notices Calculation Example After reduction ratio is decided, calculate the torque by the pulley reducers radius condition of the machine used.</p> <ol style="list-style-type: none"> 1. Find the torque of conveyer pulley (T1) $T1 = (\mu \times \text{load} \times \text{pulley radius}) / \eta_1$ 2. Find the torque needed from the output shaft of reducer (T2) $T2 = (T1 \times \text{reduction ratio of chain pulley}) / \eta_2$ 	$1. T1 = \mu \times W (D / 2) / \eta_1$ $= 600 \times (0.2 / 2)$ $= 60 \text{ Kg-m}$ $2. T2 = T1 \times 1/2 \times 1 / \eta_2$ $= 60 \times 1/2 \times 1 / 0.9$ $= 33.3 \text{ Kg-m}$
負荷條件 Load conditions	<p>根據運轉條件算出補正扭力 (T3) $T3 = T2 \times \text{運轉條件} (\text{係數 } K)$ Find corrective torque (T3) according to operation condition $T3 = T2 \times \text{operation condition} (\text{coefficient } K)$</p>	$T3 = T2 \times K$ $= 33.3 \times 1 = 33.3 \text{ kgf-m}$
馬力 Horse Power	<p>最後換算成馬力 (HP) $HP = (T \times N2) / 716.2$ Find horse power (HP) $HP = (T \times N2) / 716.2$</p>	$HP = (T \times N2) / 716.2$ $= (33.3 \times 30) / 716.2 = 1.39 \dots (2HP)$
型號選定 Model Selected	<p>根據本目錄之型號速比對照表 2HP、減速比 1/60、型號 310 適用。 According to the model-reduction ratio reference table, model 310, 2 HP, reduction ratio 1/60 are selected.</p>	

常用的公式集 Frequently Used Formula

欲知的條件 Intended Conditions	已知的條件 Known Conditions	公式 Formula
扭力 (Torque) T	動力 (F) 與半徑 (R) / 馬力 (HP) 與回轉數 (N)(RPM)	$T = F \times R$ (kgf-m)
扭力 (Torque) T	動力 (Kw) 與回轉數 (N)(RPM) / 扭力 (T) 與回轉數 (N)(RPM)	$T = (716 \times \text{HP}) / N$ (kgf-m)
扭力 (Torque) T	扭力 (T) 與回轉數 (N)(RPM) / 重力 (F) 與速度 (V)(m/sec)	$T = (974 \times \text{kW}) / N$ (kgf-m)
馬力 (Horse Power) HP	重力 (F) 與速度 (V)(m/sec) / 齒輪、皮帶輪等的直徑 (D) 與回轉數 (N)(RPM)	$HP = (T \times N) / 716.2$ (馬力)
動力 (Power) kW	入力回轉數 (N1) 與出力回轉數 (N2)	$kW = (T \times N) / 974$ (千瓦)
馬力 (Horse Power) HP	Power (F) & Radius (R) Horse power (HP) & Revolution(N)(RPM)	$HP = (F \times V) / 75$ (馬力)
動力 (Power) kW	Power (Kw) & Revolution(N)(RPM) / Torque (T) & Revolution(N)(RPM)	$kW = (F \times V) / 102$ (千瓦)
	Torque (T) & Revolution(N)(RPM) / Gravity (F) & Velocity (V) (m/sec)	
	Gravity (F) & Velocity (V) (m/sec)	

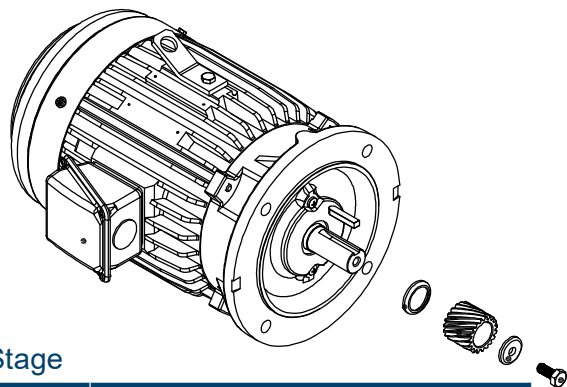
螺旋齒輪減速機 H、V 系列與電機搭配注意事項：

1. 搭配本公司電機可達最佳效率，實現機電一體化。
2. 在馬達軸心上安裝傳動齒輪，可彈性搭配各種 IEC 標準法蘭電機。
3. 馬達軸心處，必須有油封，防止潤滑油從齒箱洩漏至電機。
4. 下列規格需要修改馬達軸心尺寸或加裝 S 扣環：

Cautions:

Assemble Motor To Helical Gear Reducer H, V Series:

1. With our motor to achieve the best efficiency and achieve mechatronics.
2. Flexibly installation various IEC standard motor by Install the transmission gear on the motor shaft.
3. At the motor shaft, there must be an oil seal to prevent oil from leaking from the gear box to the motor.
4. The following specifications require modification of the motor dimension or machining for S ring:



雙段 2-Stage

型號 Model	馬力 HP(4P)	速比 Ratio	
		修改馬達軸心 Modification of the Motor Dimension	加裝 S 扣環 Machining S Ring
206	2	-	3~10
208	3	-	3~10
209	2	35~40	-
	3	30	-
209S	3	20~30	-
211	3	35~40	-
212	7 1/2、10	-	3~10
213 213S	7 1/2	20~30	-
	15	3~15	3~10
	20	3~15	3~10
214 214S	10	20~30	-
215	15	25~30	3~30
216	20	25~30	11~30
	25	-	3~10
217	25、30	25~30	
218	40	30	-
	50	3~10	-
219	50、60	20~30	-

三段 3-Stage

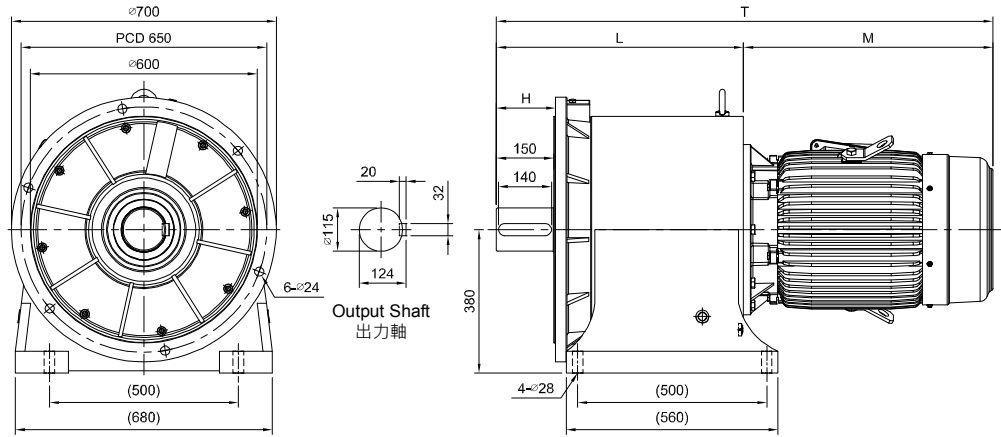
型號 Model	馬力 HP(4P)	速比 Ratio	
		修改馬達軸心 Modification of the Motor Dimension	加裝 S 扣環 Machining S Ring
308	1	-	~120
310	2	170~200	-
310S	3	-	40~90
312	2	170~200	-
	3	90~120	40~120
312S	5	-	31~50
	2	120~200	-
314 314S	3	160~200	-
	7 1/2	-	31~60
315	5	16 ~200	110~150
	7 1/2	120	60~120
316	10	120	60~120
	15	-	31~60
317	7 1/2	121~200	-
	15	120	40~120
	20	-	40~50
318	10	150~200	120~150
	15	-	60~100
	20	120	60~100
	25、30	-	40~50
	20	175~200	121~200

219 & 319 立式外觀圖 Dimension of Model 219, 319 :

MODEL : V

unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	M	L	T	H
219	50	11~30	660		1,313	
	60	11~30	660	653	1,313	156
	75	5~10	676		1,329	
319	20	121~200	542		1,218	
	25·30	70~90	562	676	1,238	156
	40	40~60	600		1,276	

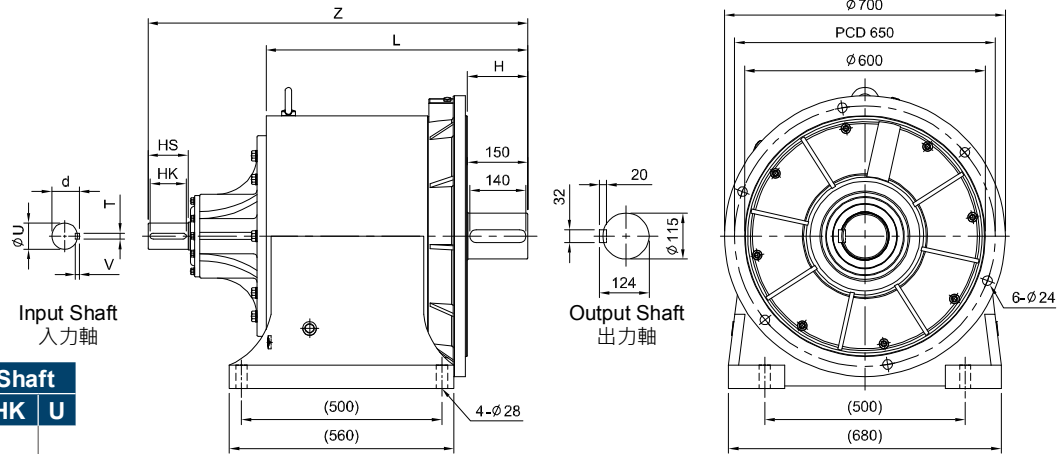


MODEL : VD

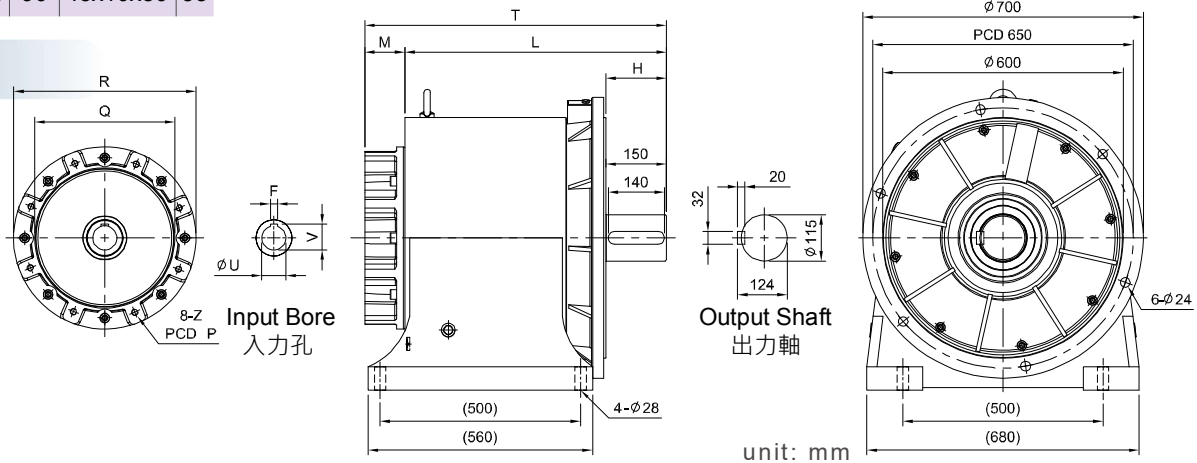
unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	L	Z	H
219	50	10~30	653	953	156
	60				
319	20	121~200	676	964	156
	25·30	70~90			
	40	40~60			

型號 Model	馬力 HP (4P)	減速比 Ratio	Input Shaft			
			d	HS	TxVxHK	U
219	50	10~30	69	100	15x10x90	65
	60					
319	20	121~200	51	80	12x8x70	48
	25·30	70~90				
	40	40~60				



MODEL : VB

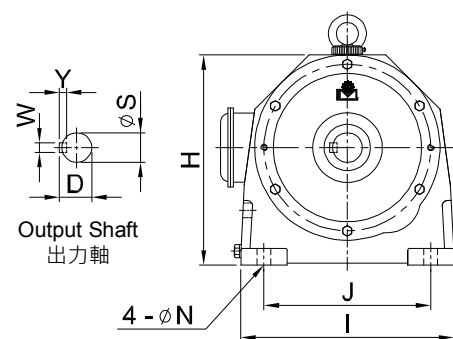
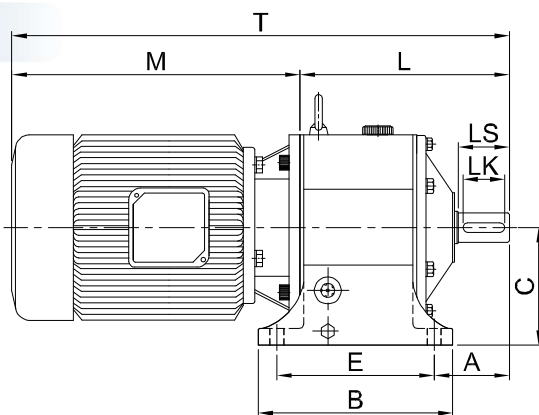


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	T	L	H	馬達盤 IEC Motor Flange					入力孔 Input Bore		
						M	P	Q	R	Z	U	F	V
219	50	10~30	754	653	156	100	400	350	450	M16	60	18	64.3
	60												
319	20	121~200	764	676	156	51	80	12	70	M12	12	45.2	
	25·30	70~90											
	40	40~60											

MODEL : H

臥式減速機 Horizontal Type Reducer
RATIO : 1/3~1/30 (雙段 2-Stage)

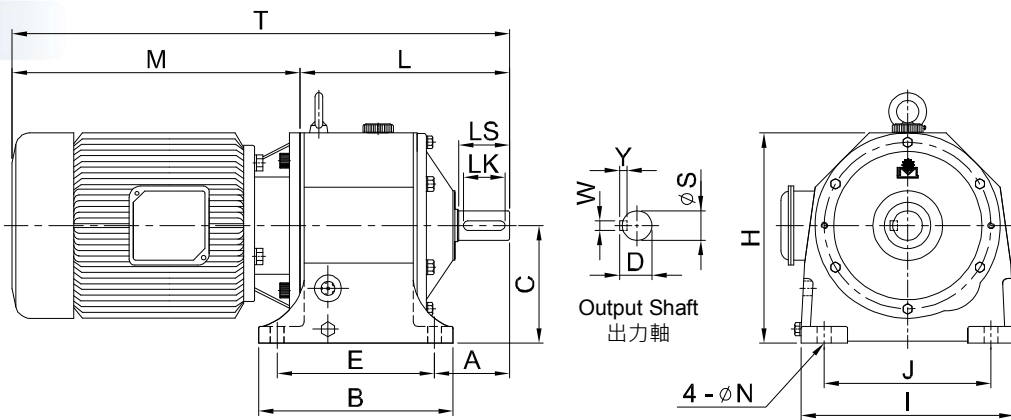


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	M	L	T	H	C	A	腳座 Foot Stock					出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)
									E	J	B	I	N	D	LS	S	WxYxLK		
201	1/4	3~30	225	165	390	170	90	54	125	140	155	180	10	21	38	19	5x5x30	8	0.5
202	1/2	3~10	248	171	419	170	90	60	125	140	155	180	10	27	45	24	7x7x35	8	0.5
203	1/4	31~50	225	178	405	190	110	62	135	145	170	190	13	27	45	24	7x7x35	10.5	0.7
	1/2	11~30	248		426														
205	1/2	31~50	248	231	479	227	127	77	170	180	210	230	15	31	50	28	7x7x40	18.5	1
	1	3~30	242	222	464														
206	2	3~10	322	226	548	227	127	81	170	180	210	230	15	35	55	32	10x8x45	18.5	1
207	1	31~40	242	254	496	253	145	80	205	195	240	260	15	35	55	32	10x8x45	25.5	1.4
	2	11~30	322		576														
208	3	3~10	315	259	574	265	145	87	205	195	240	260	15	41	60	38	10x8x50	28	1.4
209	2	3~40	322	290	612	289		88	205	195	240	260	15	41	60	38	10x8x50	34	2
	3	11~30	315		594														
209S	2	31~40	322	279	601	286		86	215	215	265	295	19	41	60	38	10x8x50	31	2
	3	15~30	315		583														
210	5	3~10	371	283	654	289	164	92	215	215	265	295	19	45	65	42	12x8x55	36	2
210S				273	644	286						280						35	
211	3	31~40	315	325	640	332	192	109	250	270	295	345	19	51	75	48	12x8x65	56	2.5
	5	11~30	371		696														
211S	5	11~30	298	669	289	164	105	215	215	265	295							46	2.5
212	7 1/2	3~10	374	325	669	332	192	109	250	270	295	345	19	51	75	48	12x8x65	56	3
	10	3~10	412		737														
213	7 1/2	11~30	374	385	759	385		210	125	310	310	370	22	60	80	56	15x10x70	93	6.5
213S	15	3~10	498		883													377	
214	10	11~30	412	390	802	385	210	130	310	310	370	400	22	66	85	62	15x10x75	97	6.5
214S				387	799	377						390						94	
215	15	11~30	498	471	970	445	245	157	360	360	430	450	25	76.5	100	72	20x12x90	149	10
	20	3~10	542		1,013														
216	20	11~30	542	471	1,013	445	245	157	360	360	430	450	25	80.5	100	76	20x12x90	151	10
	25	5~10	562		1,033														
217	25	11~30	562	508	1,070	505	280	172	380	420	460	530	25	84.5	110	80	20x12x100	205	15
	30	4~30	600		1,108														
218	40	11~30	600	608	1,208	565	310	196	480	480	570	600	28	106.5	130	100	24x16x120	335	24
	50	5~10	660		1,268														
219	50	11~30	660	676	1,336	670	380	214	540	500	635	670	28	124	150	115	32x20x140	485	32
	60	5~10	676		1,352														
220	75	11~30	676	792	1,468	782	425	272	600	680	700	830	38	139	180	130	35x22x170	760	45

MODEL : H

臥式減速機 Horizontal Type Reducer
RATIO : 1/31~1/200 (三段 3-Stage)

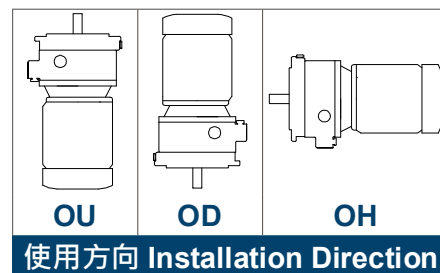
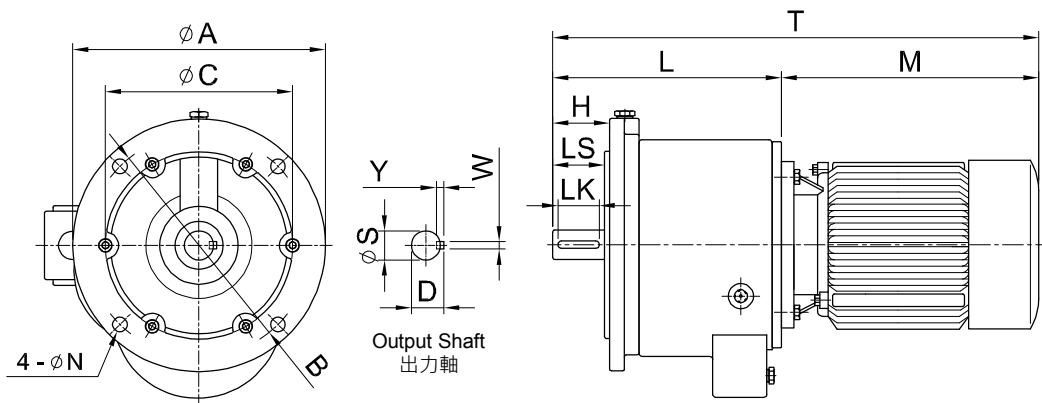


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	M	L	T	H	C	A	腳座 Foot Stock					出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)	
									E	J	B	I	N	D	LS	S	WxYxLK			
304	1/4	51~120	225	194	419	190	110	68	135	145	170	190	13	31	50	28	7x7x40	12	0.7	
306	1/4	121~200	225	236	461	227	127	81	170	180	210	230	15	35	55	32	10x8x45	20.		
	1/2	51~120	248		484															
308	1/2	121~200	248	268	516	253	145	85	205	195	240	260	15	41	60	38	10x8x50	28	1.4	
	2	31~40	322	259	581															
310	1	121~200	242	306	548	289	164	92	215	215	265	295	19	45	65	42	12x8x55	39	2	
	2	51~120	322		610															628
310S	1	121~200	242	297	538	286													37	
	2	60~120	322		618															
312	2	121~200	322	348	670	332	192	109	250	270	295	345	19	51	75	48	12x8x65	61	3	
	3	41~120	315	337	652															289
5	31~60	371	708																	
312S	1	121~200	242	323	565	289	164	105	215	215	265	295							53	2.5
	2	51~120	322		645															
314	3	121~200	315	413	728	385													105	
	5	60~120	371		784															
314S	7 1/2	31~50	374	402	776	377	210	130	310	310	370	400	22	66	85	62	15x10x75	103	6.5	
	3	121~200	315	410	725															445
5	60~120	371	781																	
315	7 1/2	31~50	374	399	773	445	245	157	360	360	430	450	25	84.5	110	80	20x12x100	220	15	
	5	121~200	371	487	858															
316	7 1/2	60~120	374	492	866	445	245	157	360	360	430	450	25	76.5	100	72	20x12x90	169	10	
	10	31~50	412		904															
317	10	60~120	412	492	904	445	245	157	360	360	430	450	25	80.5	100	76	20x12x90	169	10	
	15	31~50	498		990															
318	7 1/2	121~200	374	539	913	505	280	172	380	420	460	530	25	84.5	110	80	20x12x100	220	15	
	15	40~120	498	523	1,021															445
20	40~50	542	1,065																	
319	10	150~200	412	628	1,040	565	310	196	480	480	570	600	28	106.5	130	100	24x16x120	366	24	
	15	121~200	498		1,126															
20	60~120	542	1,170																	
319	25	60	562	696	1,190	670	380	214	540	500	635	670	28	124	150	115	32x20x140	529	32	
	30	40~50	562		1,190															
319	20	121~200	542	696	1,238	670	380	214	540	500	635	670	28	124	150	115	32x20x140	529	32	
	25-30	70~90	565		1,261															
40	40~60	603	1,299																	

MODEL : V

立式減速機 Vertical Type Reducer
RATIO: 1/3~1/30 (雙段 2-Stage)

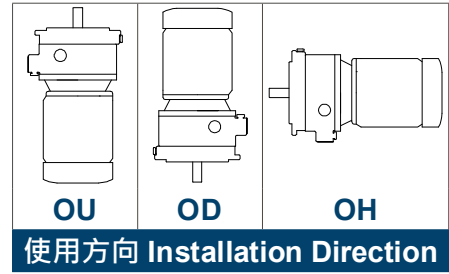
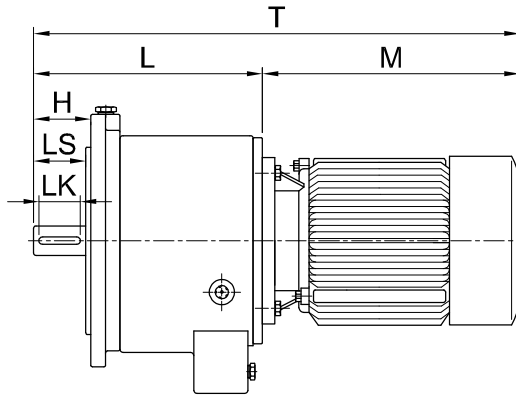
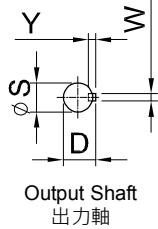
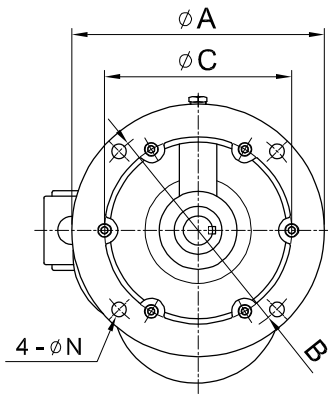


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	M	L	T	H	法蘭面 Flange				出力軸 Output Shaft				重量 Weight (kg)
							A	B	C	N	D	LS	S	WxYxLK	
201	1/4	3~30	225	146	371	43	186	155	130	10	21	38	19	5x5x30	8
202	1/2	3~10	248	153	401	50	186	155	130	10	27	45	24	7x7x35	8
203	1/4	31~50	225	187	412	50	200	175	150	13	27	45	24	7x7x35	12
	1/2	11~30	248		435										
205	1/2	31~50	248	220	468	55	243	215	180	14	31	50	28	7x7x40	17.5
	1	3~30	242	211	453										
206	2	3~10	322	216	538	60	243	215	180	14	35	55	32	10x8x45	17.5
207	1	31~40	242	233	475	60	280	245	210	14	35	55	32	10x8x45	25
	2	11~30	322	233	555										
208	3	3~10	315	239	554	65	280	245	210	14	41	60	38	10x8x50	25
	209	2	31~40	322	271										
3		11~30	315	261	576										
209S	2	31~40	322	265	587	70	330	300	250	18	45	65	42	12x8x55	37
	3	11~30	315	254	569										
210	5	3~10	371	266	637	70	330	300	250	18	45	65	42	12x8x55	37
210S				259	630										35
211	3	31~40	315	305	620	80	380	335	290	18	51	75	48	12x8x65	56.5
	5	11~30	371	282	676										
211S	5	11~30	371	282	653	80	340	300	250	18	51	75	48	12x8x65	48
212	7 1/2	3~10	374	305	679	80	380	335	290	18	51	75	48	12x8x65	56.5
	10	3~10	412	305	717										
213	7 1/2	11~30	374	358	732	85	450	400	350	22	60	80	56	15x10x70	85.5
	15	3~10	498	358	856										
213S	7 1/2	11~30	374	356	730	85	440	400	350	22	60	80	56	15x10x70	82
	15	3~10	498	368	866										
214	10	11~30	412	363	775	90	450	400	350	22	66	85	62	15x10x75	86
214S	10	11~30		361	773										
215	15	11~30	498	434	932	105	500	450	400	24	76.5	100	72	20x12x90	136
	20	3~10	542		976										
216	20	11~30	542	434	976	105	500	450	400	24	80.5	100	76	20x12x90	137
	25	5~10	562		996										
217	25	11~30	562	465	1,027	115	590	540	480	24	84.5	110	80	20x12x100	192
	30	4~30			1,065										
218	40	4~10	600	571	1,171	135	660	610	560	6x24	106.5	130	100	24x16x120	285
	50	5~10	660		1,281										
219 ^{Note 2}	50	11~30	600	653	1,313	156	700	650	600	6x24	124	150	115	32x20x140	520
	60	11~30			1,329										
	75	5~10			676										

MODEL : V

立式減速機 Vertical Type Reducer
 RATIO : 1/31~1/200 (三段 3-Stage)

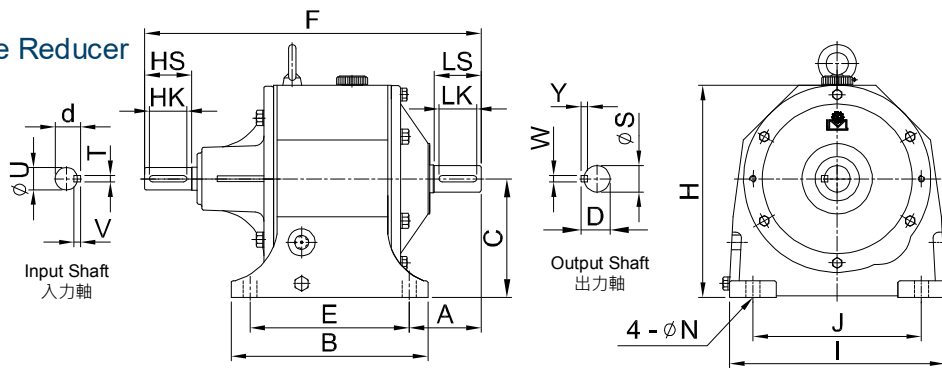


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	M	L	T	H	法蘭面 Flange				出力軸 Output Shaft				重量 Weight (kg)
							A	B	C	N	D	LS	S	WxYxLK	
304	1/4	51~120	225	192	417	55	200	175	150	13	31	50	28	7x7x40	12.5
	1/4	121~200	225	226	451	60	243	215	180	14	35	55	32	10x8x45	19.5
306	1/2	51~120	248	247	495	65	280	245	210	14	41	60	38	10x8x50	26
	1/2	121~200	248	247	495										
308	1	40~120	242	238	560	70	330	300	250	18	45	65	42	12x8x55	41
	2	31~40	322	290	612										
310	1	121~200	242	279	594	80	380	335	290	18	51	75	48	12x8x65	63.5
	2	51~120	322	290	612										
310S	1	121~200	242	282	604	80	340	300	250	18	51	75	48	12x8x65	57
	2	60~120	322	282	604										
312	2	121~200	322	326	648	90	450	400	350	22	66	85	62	15x10x75	98
	3	41~120	315	315	630										
312S	3	31~50	371	315	686	90	440	400	350	22	66	85	62	15x10x75	95
	5	121~200	322	326	648										
314	1	121~200	242	307	628	105	500	450	400	24	76.5	100	72	20x12x90	158
	2	35~120	322	307	628										
314S	3	121~200	315	389	704	105	500	450	400	24	80.5	100	76	20x12x90	160
	5	60~120	371	389	760										
315	7 1/2	31~50	374	378	752	115	590	540	480	24	84.5	110	80	20x12x100	206
	5	121~200	371	451	822										
316	10	60~120	374	454	866	135	660	610	560	6x24	106.5	130	100	24x16x120	326
	10	31~50	412	454	866										
317	15	31~50	498	498	952	135	660	610	560	6x24	106.5	130	100	24x16x120	326
	15	121~200	374	496	870										
318	7 1/2	40~120	498	480	978	155	700	650	600	6x24	124	150	115	32x20x140	552
	20	40~50	542	480	1,022										
319	10	150~200	412	589	1,001	155	700	650	600	6x24	124	150	115	32x20x140	552
	15	121~200	498	589	1,087										
319 ^{Note 2}	20	60~120	542	589	1,131	155	700	650	600	6x24	124	150	115	32x20x140	552
	25	60	562	589	1,159										
319 ^{Note 2}	30	40~50	562	674	1,216	155	700	650	600	6x24	124	150	115	32x20x140	552
	40	70~90	562	674	1,236										
319 ^{Note 2}	20	40~60	600	674	1,274	155	700	650	600	6x24	124	150	115	32x20x140	552
	40	40~60	600	674	1,274										

MODEL : HD

臥式雙軸減速機 Horizontal Double Shaft Type Reducer
RATIO : 1/3~1/30 (雙段 2-Stage)



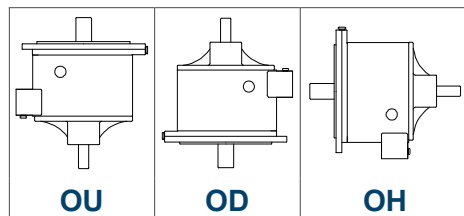
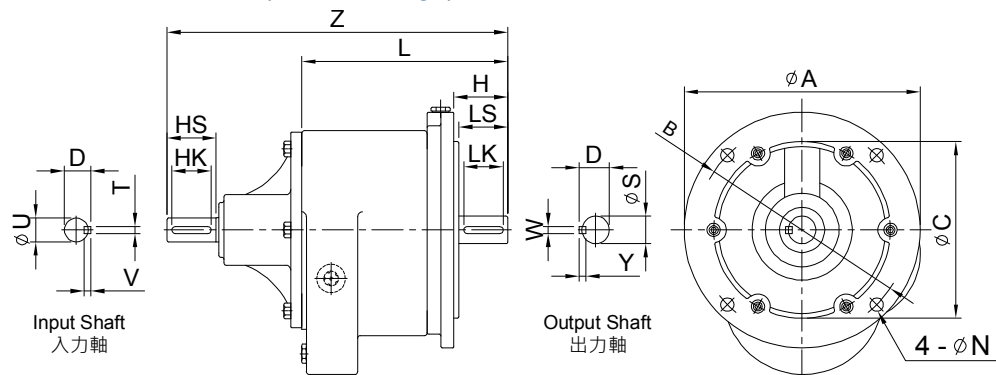
unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	F	A	C	H	入力軸 Input Shaft				腳座 Foot Stock					出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)
							d	HS	TxVxHK	U	E	J	B	I	N	D	LS	S	WxYxLK		
201	1/4	3~30	251	54	90	170	18	35	5x5x25	16	125	140	155	180	10	21	38	19	5x5x30	10	0.5
202	1/2	3~10	264	60	90	170	21	40	5x5x30	19	125	140	155	180	10	27	45	24	7x7x35	10.5	0.5
203	1/4	31~50	264	62	110	190	18	35	5x5x25	16	135	145	170	190	13	27	45	24	7x7x35	12.5	0.7
	1/2	11~30	271				21	40	5x5x30	19											
205	1/2	31~50	357	77	127	227	27	50	7x7x40	24	170	180	210	230	15	31	50	28	7x7x40	22.5	1
	1	3~30					27	50	7x7x40	24											
206	2	3~10	361	81	127	227	27	50	7x7x40	24	170	180	210	230	15	35	55	32	10x8x45	22.	
207	1	31~40	389	80	145	253	27	50	7x7x40	24	205	195	240	260	15	35	55	32	10x8x45	29	1.4
	2	11~30					24	205	195	240											
208	3	3~10	394	85	145	265	27	50	7x7x40	24	205	195	240	260	15	41	60	38	10x8x50	31.5	1.4
209	2	31~40	419	88	164	289														42	2
	3	11~30					31	55	7x7x45	28	215	215	265	19	41	60	38	10x8x50			
209S	2	31~40	408	86	164	286														39	
	3	11~30					31	55	7x7x45	28	215	215	265	19	41	60	38	10x8x50			
210	5	3~10	423	92	164	289	31	55	7x7x45	28	215	215	265	295	19	45	65	42	12x8x55	43	2
210S			413			286															
211	3	31~40	465	109	192	332	31	55	7x7x45	28	250	270	295	345	19	51	75	48	12x8x65	62	3
	5	11~30	484				35	60	10x8x50	32											
211S	5	1~30	457	105	164	289	35	60	10x8x50	32	215	215	265	280					46	2.5	
212	7 1/2 10	3~10	484	109	192	332	35	60	10x8x50	32	250	270	295	345	19	51	75	48	12x8x65	62	3
213	7 1/2 15	11~30 3~10	564	125	210	385														107	6.5
							41	65	10x8x55	38	310	310	370	22	60	80	56	15x10x70			
213S	7 1/2 15	11~30 3~10	561			377														105	
214	10	11~30	569	130	210	385	41	65	10x8x55	38	310	310	370	400	22	66	85	62	15x10x75	108	6.5
			566			377															
215	15 20	11~30 3~10	697	157	245	445	51	80	12x8x70	48	360	360	430	450	25	76.5	100	72	20x12x90	178	10
216	20 25	11~30 5~10	697	157	245	445	51	80	12x8x70	48	360	360	430	450	25	80.5	100	76	20x12x90	179	10
217	25	11~30	733	172	280	505	51	80	12x8x70	48	380	420	460	530	25	84.5	110	80	20x12x100	235	15
	30	4~30																			
	40	4~10																			
218	40	11~30	881	196	310	565	59	90	15x10x80	55	480	480	570	600	28	106.5	130	100	24x16x120	376	24
	50	5~10																			
	60	5~10																			
219	50	11~30	970	214	380	670	69	100	15x10x90	65	540	500	635	670	28	124	150	115	32x20x140	565	32
	60	11~30																			
	75	5~10																			
220	75	11~30	1,174	272	425	782	79.5	110	20x12x100	75	600	680	700	830	38	139	180	130	35x22x170	852	45

MODEL : VD

立式雙軸減速機 Vertical Double Shaft Type Reducer

RATIO : 1/3~1/40 (雙段 2-Stage)



使用方向 Installation Direction

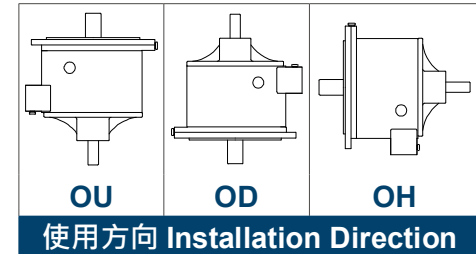
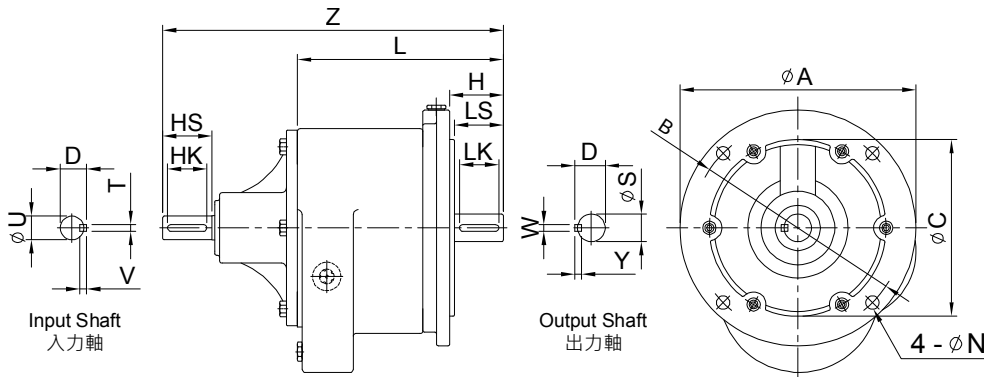
unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	L	Z	入力軸 Input Shaft				法蘭面 Flange				出力軸 Output Shaft					重量 Weight (kg)
					d	HS	TxVxHK	U	A	B	C	N	D	LS	S	H	WxYxLK	
201	1/4	3~30	146	232	18	35	5x5x25	16	186	155	130	10	21	38	19	43	5x5x30	10.5
202	1/2	3~10	153	245	21	40	5x5x30	19	186	155	130	10	27	45	24	50	7x7x35	10.5
203	1/4 1/2	31~40 11~30	201	273	18	35	5x5x25	16	200	175	150	13	27	45	24	50	7x7x35	12.5
					21	40	5x5x30	19										
205	1/2 1	31~50 3~30	211	349	27	50	7x7x40	24	243	215	180	14	31	50	28	55	7x7x40	21.7
206	2	3~10	214	351	27	50	7x7x40	24	243	215	180	14	35	55	32	60	10x8x45	21.5
207	1 2	31~40 11~30	233	370	27	50	7x7x40	24	280	245	210	14	35	55	32	60	10x8x45	29
208	3	3~10	239	375	27	50	7x7x40	24	280	245	210	14	41	60	38	65	10x8x50	29.5
209	2 3	31~40 11~30	261	401	31	55	7x7x45	28	330	300	250	18	41	60	38	65	10x8x50	43.5
209S	2 3	31~40 11~30	254	394					300	265	230							
210	5	3~10	266	406	31	55	7x7x45	28	330	300	250	18	45	65	42	70	12x8x55	45
210S			259	399					300	265	230							
211	3 5	31~40 11~30	305	464	31	55	7x7x45	28	375	335	290	18	51	75	48	80	12x8x65	66.5
211S	5	11~30	282	422	35	60	10x8x50	32										
212	7 1/2 10	3~10	305	464	35	60	10x8x50	32	380	335	290	18	51	75	48	80	12x8x65	66.5
213	7 1/2 15	11~30 3~10	358	537	41	65	10x8x55	38	450	400	350	22	60	80	56	85	15x10x70	104
213S	7 1/2 15	11~30 4~10	356 368	535 547					440									
214	10	11~30	363	542	41	65	10x8x55	38	450	400	350	22	66	85	62	90	15x10x75	104
214S			361	539					440									
215	15 20	11~30 3~10	434	661	51	80	12x8x70	48	500	450	400	24	76.5	100	72	105	20x12x90	168
216	20 25	11~30 4~10	434	661	51	80	12x8x70	48	500	450	400	24	80.5	100	76	105	20x12x90	170
217	25 30 40	11~30 4~30 4~10	465	691	51	80	12x8x70	48	590	540	480	24	84.5	110	80	115	20x12x100	226
218	40 50 60	11~30 5~10 5~10	571	845	59	90	15x10x80	55	660	610	560	6x24	106.5	130	100	135	24x16x120	332
219 ^{Note 2}	50 60	11~30	653	947	69	100	15x10x90	65	700	650	600	6x24	124	150	115	156	32x20x140	560

MODEL : VD

立式雙軸減速機 Vertical Double Shaft Type Reducer

RATIO : 1/31~1/200 (三段 3-Stage)

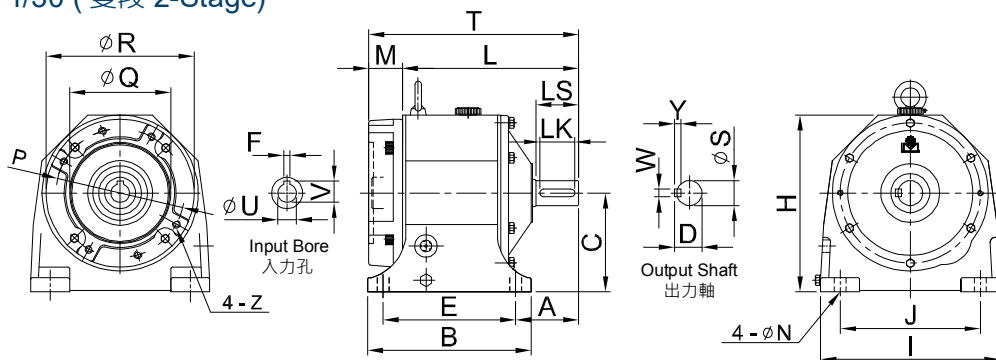


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	L	Z	入力軸 Input Shaft				法蘭面 Flange				出力軸 Output Shaft				重量 Weight (kg)	
					d	HS	TxVxHK	U	A	B	C	N	D	LS	S	H		WxYxLK
304	1/4	51~120	192	278	18	35	5x5x25	16	200	175	150	12	31	50	28	55	7x7x40	14.5
306	1/4	121~200	311	312	18	35	5x5x25	16	242	215	180	14	35	55	32	60	10x8x45	22
	1/2	51~120	319	319	21	40	5x5x30	19										
308	1/2	121~200	247	341	21	40	5x5x30	19	280	245	210	14	41	60	38	65	10x8x50	30
	1	40~120	238	377	27	50	7x7x40	24										
310	1	121~200	279	425	27	50	7x7x40	24	330	300	250	18	45	65	42	70	12x8x55	45.5
	2	51~120																
310S	3	31~50	282	419	31	55	7x7x45	28	380	335	290	18	51	75	48	80	12x8x65	70
	1	121~200																
312	2	51~120	315	455	31	55	7x7x45	28	340	300	250	18	51	75	48	80	12x8x65	65
	3	41~120																
312S	5	31~50	296	433	35	60	10x8x50	32	450	400	350	22	66	85	62	90	15x10x75	111
	1	121~200																
314	7 1/2	31~50	389	548	35	60	10x8x50	32	440	400	350	22	66	85	62	90	15x10x75	109
	3	121~200																
314S	5	60~120	384	543	35	60	10x8x50	32	500	450	400	24	76.5	100	72	105	20x12x90	178
	7 1/2	31~50																
315	5	121~200	456	635	41	65	10x8x55	38	500	450	400	24	80.5	100	76	105	20x12x90	180
	7 1/2	60~120																
316	10	31~50	454	635	41	65	10x8x55	38	590	540	480	24	84.5	110	80	115	20x12x100	236
	15	60~120																
317	7 1/2	121~200	496	675	41	65	10x8x55	38	660	610	560	6x24	106.5	130	100	135	24x16x120	380
	15	40~120																
318	20	40~50	599	828	51	80	12x8x70	48	700	650	600	6x24	124	150	115	155	32x20x140	591
	10	150~200																
319	10	150~200	674	901	51	80	12x8x70	48	700	650	600	6x24	124	150	115	155	32x20x140	591
	15	121~200																
319 Note 2	25	70~90	674	901	51	80	12x8x70	48	700	650	600	6x24	124	150	115	155	32x20x140	591
	30	31~50																
319 Note 2	20	121~200	674	901	51	80	12x8x70	48	700	650	600	6x24	124	150	115	155	32x20x140	591
	40	40~60																

MODEL : HB

馬達插入式臥式減速機 Horizontal Type Reducer Motor Plug-In
 RATIO: 1/3~1/30 (雙段 2-Stage)

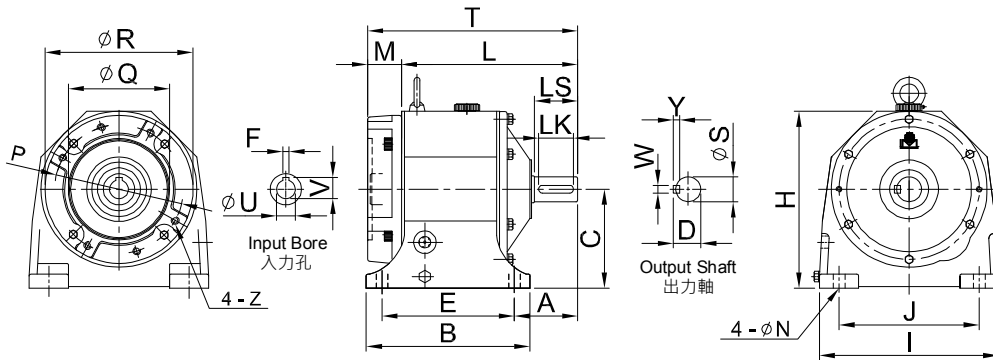


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	T	H	L	C	A	腳座 Foot Stock					馬達盤 IEC Motor Flange					入力孔 Input Bore			出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)
								E	J	B	I	N	M	P	Q	R	Z	U	F	V	D	LS	S	WxYxLK		
201	1/4	3~30	194	170	165	90	54	125	140	155	180	10	29	130	110	158	M8	11	4	12.7	21	38	19	5x5x30	9	0.
202	1/2	3~10	201	170	172	90	60	125	140	155	180	10	29	130	110	158	M8	14	5	16.3	27	45	24	7x7x35	9	0.5
203	1/4	31~50	209	190	180	110	62	135	145	170	190	13	29	130	110	158	M8	11	4	12.7	27	45	24	7x7x35	11.5	0.7
	1/2	11~30																14	5	16.3						
205	1/2	31~50	248	227	222	127	77	170	180	210	230	15	26	130	110	200	M8	14	5	16.3	31	50	28	7x7x40	19.	
	1	3~30																19	6	21.8						
206	2	3~10	271	227	226	127	81	170	180	210	230	15	45	165	130	200	M10	24	8	27.3	35	5		x8x45	21	1
207	1	31~40	299	253	254	145	80	205	195	240	260	15	34	165	130	200	M10	19	6	21.8	35	55	32	10x8x45	29	1.4
	2	11~30																24	8	27.3						
208	3	3~10	319	265	262	145	87	205	195	240	260	15	57	215	180	250	M12	28	8	31.3	41	60	38	10x8x50	30.5	1.4
209	2	31~40	328	299	279	164	88	215	215	265	295	19	49	165	130	250	M10	24		27.3	41	60	38	10x8x50	42	2
	3	11~30																28		31.3						
209S	2	31~40	317	286	268	164	88	215	215	265	280	19	49	165	130	250	M10	24		27.3	41	60	38	10x8x50	40	
	3	15~30																28		31.3						
210	5	3~10	340	299	283	164	92	215	215	265	295	19	57	215	180	250	M12	28	8	31.3	45	65	42	12x8x55	39	2
210S			345															273	280							
211	3	31~40	382	332	325	192	109	250	270	295	345	19	57	215	180	250	M12	28	8	31.3	51	75	48	12x8x65	59	3
	5	11~30																								
211S	5	11~30	355	289	298	164	105	215	215	265	295										51	75	48	12x8x65	50	2.5
212	7 1/2	3~10	390	332	325	192	109	250	270	295	345	19	65	265	230	300	M12	38	10	41.3	51	75	48	12x8x65	67	3
	10	3~10																								
213	7 1/2	11~30	450	385	385	210	125	310	310	370	400	22	65	265	230	300	M12	38	10	41.3	60	80	56	15x10x70	105	6.5
	15	3~10																475		45.3						
213S	7 1/2	11~30	447	377	382	210	125	310	310	370	390	22	65	265	230	300	M12	38	10	41.3	60	80	56	15x10x70	98	
	15	3~10																482	394	45.3						
214	10	11~30	455	385	390	210	130	310	310	370	400	22	65	265	230	300	M12	38	10	41.3	66	85	62	15x10x75	105	6.5
214S			377	390							390							98								
215	15	11~30	559	445	471	245	157	360	360	430	450	25	88	300	250	350	M16	42	12	45.3	76.5	100	72	20x12x90	167	10
	20	3~10																								
216	20	11~30	559	445	471	245	157	360	360	430	450	25	88	300	250	350	M16	42	12	45.3	80.5	100	76	20x12x90	170	10
	25	5~10																48	14	51.8						
217	25	11~30	595	505	508	280	172	380	420	460	530	25	88	350	300	390	M16	48	14	51.8	84.5	110	80	20x12x100	235	15
	30	4~30																								
218	40	4~10	695	565	608	310	196	480	480	570	600	28	88	350	300	390	M16	55	16	59.3	106.5	130	100	24x16x120	364	24
	50	11~30																60	626	390						
219	50	11~30	776	670	676	380	214	540	500	635	670	28	100	400	350	450	M16	60	18	64.3	124	150	115	32x20x140	541.5	32
	60																									

MODEL : HB

馬達插入式臥式減速機 Horizontal Type Reducer Motor Plug-In
 RATIO : 1/31~1/200 (三段 3-Stage)

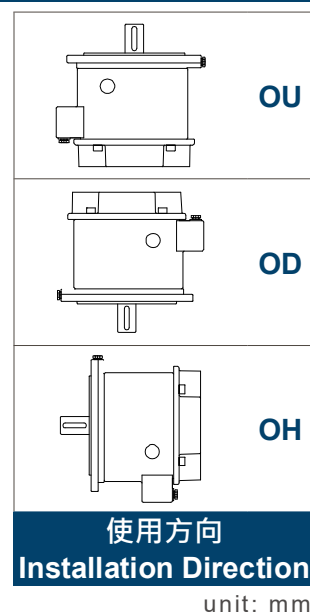
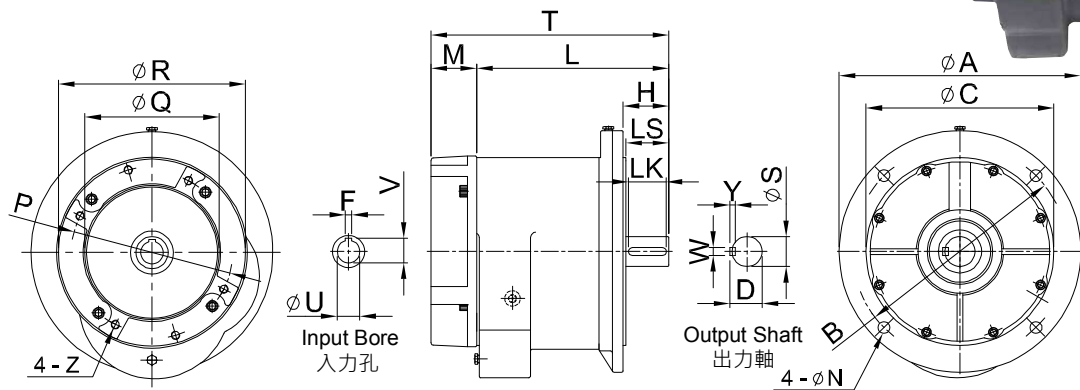


unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	T	H	L	C	A	腳座 Foot Stock					馬達盤 IEC Motor Flange					入力孔 Input Bore			出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)
								E	J	B	I	N	M	P	Q	R	Z	U	F	V	D	LS	S	WxYxLK		
304	1/4	51~120	220	190	194	110	68	135	145	170	190	13	29	130	110	158	M8	11	4	12.7	31	50	28	x7x40	12.5	0.7
306	1/4	121~200	265	227	236	127	81	170	180	210	230	15	29	130	110	200	M8	11	4	12.7	35	55	32	10x8x45	21.	
	1/2	51~120																								
308	1/2	121~200	285		259								26	130	110		M8	14	5	16.3	41	60	38	10x8x50	29	1.4
	1	40~120	293	253	259	145	85	205	195	240	260	15	34	165	130	200	M10	19	6	21.8						
310	2	31~40	313		268								45								45	65	42	12x8x55	45	2
	1	121~200	344	289	295								49	165	130		M10	19	6	21.8						
310S	2	51~120											57	215	180	250	M10	24	8	27.3	45	65	42	12x8x55	43	
	1	121~200	334	286	286								49	165	130		M10	19	6	21.8						
312	2	60~120	386										49	165	130		M10	24	8	27.3	51	75	48	12x8x65	65	3
	3	41~120	394	332	337	192	109	250	270	295	345	19	57	215	180	250	M12	28	8	31.3						
312S	5	31~50											57	215	180						51	75	48	12x8x65	65	3
	1	121~200	361	289	312	164	105	215	215	265	295		49	165	130		M10	19	6	21.8						
314	2	60~120											49	165	130		M10	24	8	27.3	66	85	62	15x10x75	107	6.5
	3	121~200	470	385	413								57	215	180	250	M12	28	8	31						
314S	5	60~120	467		402								65	265	230	300	M12	38	10	41.3	66	85	62	15x10x75	105	
	3	121~200	467	377	410	210	130	310	310	370		22	57	215	180	250	M12	28	8	31.3						
315	7 1/2	31~50	464		399								65	265	230	300	M12	38	10	41.3	76.5	100	72	20x12x90	176	10
	3	60~120	467	377	410								57	215	180	250	M12	28	8	31.3						
315	5	121~200	545		488								57	215	180	250					76.5	100	72	20x12x90	176	10
	7 1/2	60~120	557	445	492	245	157	360	360	430	450	25	65	265	230	300	M12	38	10	41.3						
316	10	60~120	557		580								65	265	230	300	M12	38	10	41.3	80.5	100	76	20x12x90	184	10
	15	31~50	604	505	539	280	172	380	420	460	530	25	65	265	230	300	M12	38	10	41.3						
317	7 1/2	121~200	604		539								65	265	230	300	M12	38	10	41.3	84.5	110	80	20x12x100	239	15
	15	40~120	611	505	523	280	172	380	420	460	530	25	88	300	250	350	M16	42	12	45.3						
318	20	40~50											88	300	250	350	M16	42	12	45.3	106.5	130	100	24x16x120	377	24
	10	150~200	693		628								65	265	230	300	M12	38	10	41.3						
318	15	121~200	716		628								88	300	250	350	M16	42	12	45.3	106.5	130	100	24x16x120	394	24
	20	51~120	716	565	650	310	196	480	480	570	600	28	88	350	300	390	M16	48	14	51.8						
319	25	60	737		650								88	300	250	350	M16	42	12	45.3	124	150	115	32x20x140	595	32
	30	31~50	737		650								88	350	300	390	M16	48	14	51.8						
319	20	121~200	787										88	300	250	350	M16	42	12	45.3	124	150	115	32x20x140	595	32
	25·30	70~90	808	670	699	380	214	540	500	635	670	28	88	350	300	390	M16	48	14	51.8						
	40	40~60	808										88	350	300	390	M16	55	16	59.3						

MODEL : VB

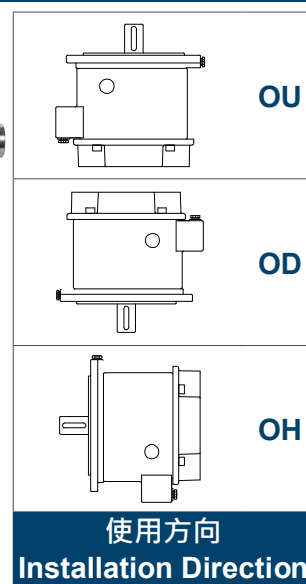
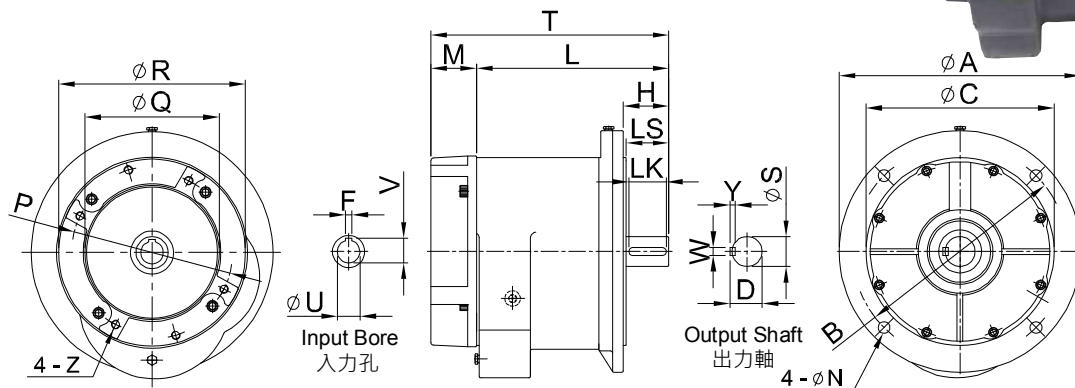
馬達插入式立式減速機 Vertical Type Reducer Motor Plug-In
RATIO: 1/3~1/30 (雙段 2-Stage)



型號 Model	馬力 HP (4P)	減速比 Ratio	T	L	H	法蘭面 Flange				馬達盤 IEC Motor Flange					入力孔 Input Bore			出力軸 Output Shaft				重量 Weight (kg)	
						A	B	C	N	M	P	Q	R	Z	U	F	V	D	LS	S	WxYxLK		
201	1/4	3~30	175	146	43	186	155	130	10	29	130	110	160	M8	11	4	12.7	21	38			x5x30	
202	1/2	3~10	182	153	50	186	155	130	10	29	130	110	160	M8	14	5	16.3	27	45			x7x35	9
203	1/4	31~50	216	187	50	200	175	150	13	29	130	110	160	M8	11	4	12.7	27	45	24	7x7x35	12.5	
	1/2	11~30													14	5	16.3						
205	1/2	31~50	237	211	55	243	215	180	14	26	130	110	200	M8	14	5	16.3	31	50	28	7x7x40	19	
	1	3~30													19	6	21.8						
206	2	3~10	261	216	60	243	215	180	14	45	165	130	200	M10	24	8	27.3	35	55	32	10x8x45	20.5	
207	1	31~40	278	233	60	280	245	210	14	34	165	130	200	M10	19	6	21.8	35	55	32	10x8x45	27	
	2	11~30													24	8	27.3						
208	3	3~10	295	239	65	280	245	210	14	57	215	180	250	M12	28	8	31.3	41	6		x8x50	27.5	
209	2	31~40	310	261	65	330	300	250	18	49	165	130	250	M10	24		27.3	41	60	38	10x8x50	47.5	
	3	11~30													28		31.3						
209S	2	31~40	303	254	65	300	265	230	18	49	165	130	250	M10	24		27.3	41	60	38	10x8x50	44	
	3	11~30													28		31.3						
210	5	3~10	323	266	70	330	300	250	18	57	215	180	250	M12	28	8	31.3	45	65	42	12x8x55	41	
210S			316	259																		300	265
211	3	31~40	362	305	80	380	335	290	18	57	215	180	250	M12	28	8	31.3	51	7		x8x65	60.5	
	5	11~30																				340	300
212	7 1/2	3~10	370	305	80	380	335	290	18	65	265	230	300	M12	38	10	41.3	51	75	48	12x8x65	69	
213	7 1/2	11~30	423	358	85	450			22	65	265	230	300	M12	38	10	41.3	60	80	56	15x10x70	101	
		3~10																					446
213S	7 1/2	11~30	421	356	85	440			22	65	265	230	300	M12	38	10	41.3	60	80	56	15x10x70	98	
		3~10																					456
214	10	11~30	428	362	90	450	400	350	22	65	265	230	300	M12	38	10	41.3	66	85	62	15x10x75	99.5	
214S			426			440																96.5	
215	15	11~30	522	434	105	500	450	400	24	88	300	250	350	M16	42	12	45.3	76.5	100	72	20x12x90	156	
216	20	11~30	522	434	105	500	450	400	24	88	300	250	350	M16	42	12	45.3	80.5	100	76	20x12x90	158	
		5~10																					45.3
217	25	11~30	552	465	115	590	540	480	24	88	350	300	390	M16	48	14	51.8	84.5	110	80	20x12x100	220	
		4~30																					59.3
218	40	4~10	658	571	135	660	610	560	6x24	88	350	300	390	M16	55	16	59.3	106.5	130	100	24x16x120	320	
		11~30																					59.3
		5~10																					689
219 ^{Note 2}	50	11~30	754	653	156	700	650	600	6x24	100	400	350	450	M16	60	18	64.3	124	150	115	32x20x140	575	
																							60

MODEL : VB

馬達插入式立式減速機 Vertical Type Reducer Motor Plug-In
 RATIO : 1/31~1/200 (三段 3-Stage)



unit: mm

型號 Model	馬力 HP (4P)	減速比 Ratio	T	L	H	法蘭面 Flange				馬達盤 IEC Motor Flange					入力孔 Input Bore			出力軸 Output Shaft				重量 Weight (kg)
						A	B	C	N	M	P	Q	R	Z	U	F	V	D	LS	S	WxYxLK	
304	1/4	51~120	221	187	55	200	175	150	12	29	130	110	160	M8	11	4	12.7	31	50	28	7x7x40	13
306	1/4	121~200	255	226	60	243	215	180	14	29	130	110	160	M8	11	4	12.7	35	55	32	10x8x45	20.5
	1/2	51~120	255		14										5	16.3						
308	1/2	121~200	264	247	65	280	245	210	14	29	130	110	200	M8	14	5	16.3	41	60	38	10x8x50	28
	1	40~120	271							34	165	130		19	6	21.8						
310	2	31~40	328	238	70	330	300	250	18	45	165	130	250	M10	24	8	27.3	45	65	42	12x8x55	45
	1	121~200	336							34	165	130		19	6	21.8						
310S	2	51~120	322	279	70	300	265	230	18	49	165	130	250	M10	24	8	27.3	45	65	42	12x8x55	41
	1	121~200	320							271	49	165		130	19	6	21.8					
312	1	121~200	364	315	80	380	335	290	18	57	215	180	250	M10	24	8	27.3	51	75	48	12x8x65	65
	3	41~120	372							57	215	180		24	8	31.3						
312S	5	31~50	372	315	80	380	335	290	18	57	215	180	250	M12	28	8	31.3	51	75	48	12x8x65	65
	1	121~200	344							296	49	165		130	19	6	21.8					
314	2	60~120	344	296	80	340	300	250	18	49	165	130	250	M10	24	8	27.3	51	75	48	12x8x65	58
	3	121~200	445							389	57	215		180	250	28	8					
314S	5	60~120	443	378	90	450	400	350	22	65	265	230	300	M12	38	10	41.3	66	85	62	15x10x75	105
	7 1/2	31~50	443							378	65	265		230	300	38	10					
314S	3	121~200	430	373	90	440	400	350	22	57	215	180	250	M12	2			66	85	62	15x10x75	102
	5	60~120	439							373	440	57		215	180	250	2					
315	7 1/2	31~50	439	373	90	440	400	350	22	65	265	230	300	M12	38	10	41.3	66	85	62	15x10x75	102
	5	12 ~200	510							451	90	440		57	215	180	250					
315	10	60~120	521	454	105	500	450	400	24	65	265	230	300	M12	38	10	41.3	76.5	100	72	20x12x90	165
	7 1/2	31~50	521							454	105	500		450	400	24	65					
316	15	31~50	538	496	115	590	540	480	24	88	300	250	350	M16	42	12	45.3	80.5	100	76	20x12x90	174
	10	60~120	521							454	105	500		450	400	24	65					
317	7 1/2	121~200	561	480	115	590	540	480	24	65	265	230	300	M12	38	10	41.3	84.5	110	80	20x12x100	226.5
	15	40~120	567							480	115	590		540	480	24	88					
318	20	40~50	567	480	115	590	540	480	24	88	300	250	350	M16	42	12	45.3	84.5	110	80	20x12x100	226.5
	10	150~200	654							480	115	590		540	480	24	65					
318	15	121~200	677	589	135	660	610	560	6x24	88	300	250	350	M16	42	12	45.3	106.5	130	100	24x16x120	347
	20	51~120	677							589	135	660		610	560	6x24	88					
318	25	60	681	589	135	660	610	560	6x24	88	350	300	390	M16	48	14	51.8	106.5	130	100	24x16x120	347
	30	31~50	681							589	135	660		610	560	6x24	88					
319 ^{Note 2}	20	121~200	764	674	155	700	650	600	6x24	88	300	250	350	M16	42	12	45.3	124	150	115	32x20x140	597
	25	70~90	785							674	155	700		650	600	6x24	88					
319 ^{Note 2}	40	40~60	785	674	155	700	650	600	6x24	88	350	300	390	M16	55	16	59.3	124	150	115	32x20x140	597
	25	70~90	785							674	155	700		650	600	6x24	88					

特點

高減速比 · 從 1/210~1/6000 ·

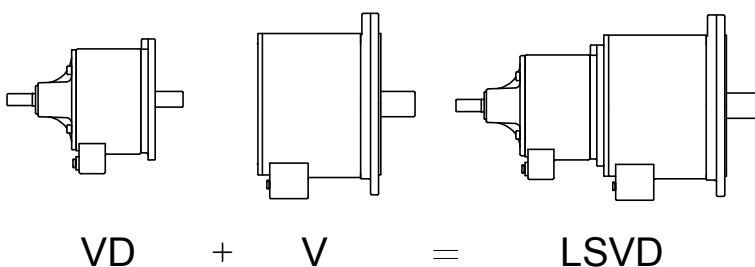
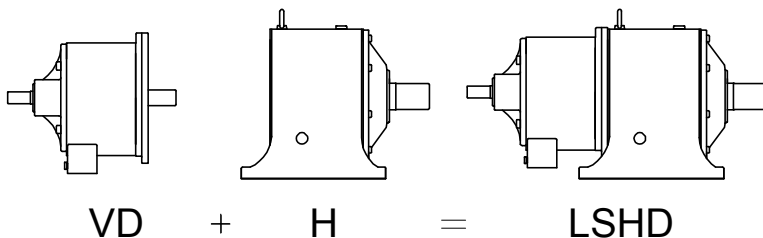
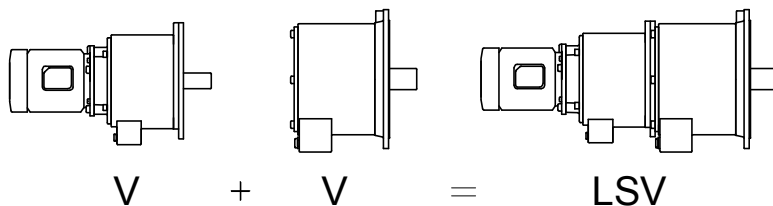
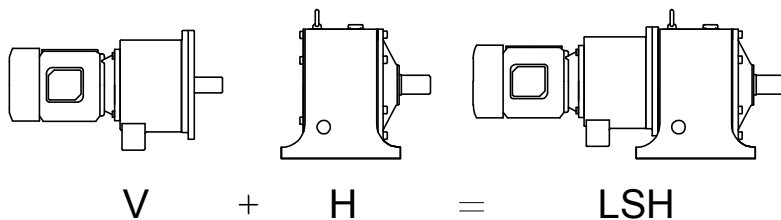
多速比減速機－連結規格一覽表
Multi-Stage Reducer - Link Specification Table

Model NO.	Type	LSH · LSHD	LSV · LSVL
406		201V+206H	201V+206V
408		203V+208H	203V+208V
508		201V+308H	201V+308V
410		205V+210H	205V+210V
410S		205V+210HS	205V+210VS
510		306V+210H	306V+210V
510S		306V+210HS	306V+210VS
610		306V+310H	306V+310V
610S		306V+310HS	306V+310VS
412		205V+212H	205V+212V
412S		205V+212HS	205V+212VS
512		205V+312H	205V+312VS
512S		205V+312HS	205V+312VS
612		306V+312H	306V+312V
612S		306V+312HS	306V+312VS
414		209V+214H	209V+214V
414S		209VS+214HS	209VS+214VS
514		207V+314H	207V+314V
514S		207V+314HS	207V+314VS
614		308V+314H	308V+314V
614S		308V+314HS	308V+314VS
416		209V+216H	209V+216V
516		209V+316H	209V+316V
616		310V+316H	310V+316V
417		211V+217H	211V+217V
517		312V+217H	312V+217V
617		310V+317H	310V+317V
418		212V+218H	212V+218V
518		212V+318H	212V+318V
618		312V+318H	312V+318V
419		213V+219H	213V+219V

連結規格僅供參考用。

Specifications

High gear ratio from 1/210 to 1/6000.



多速比減速機型號速比一覽表 (速比超過 1/6000 以上請另議)
Model / Speed Ratio Table for Multi-Stage Reducer
(Speed Ratio Above 1/6000 Excluded)

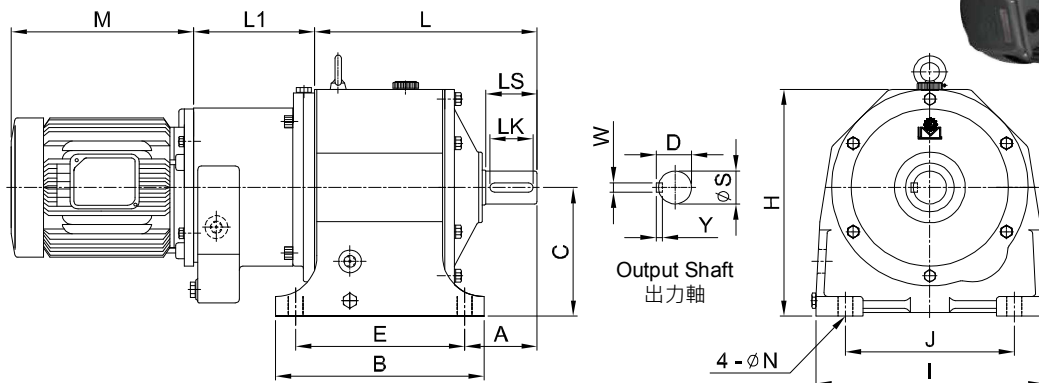
Horse Power		減速比 Ratio		
		1/210 ~ 1/600	1/610 ~ 1/1200	1/1210 ~ 1/6000
4P	6P	Model	Model	Model
1/4		406	508	610
1/2	1/4	408	510	612
1	1/2	410	512	614
2	1	412	514	616
3	2	414	516	618
5	3	416	517	619
7 1/2	5	417	518	
10	7.5	418		
15	10	419		

此表屬標準品，如馬力 (HP) 或安全係數 (SF) 標註不同則

MODEL : LSH

臥式多速比減速機 Horizontal Multi-Stage Reducer

RATIO : 1/200~1/6000



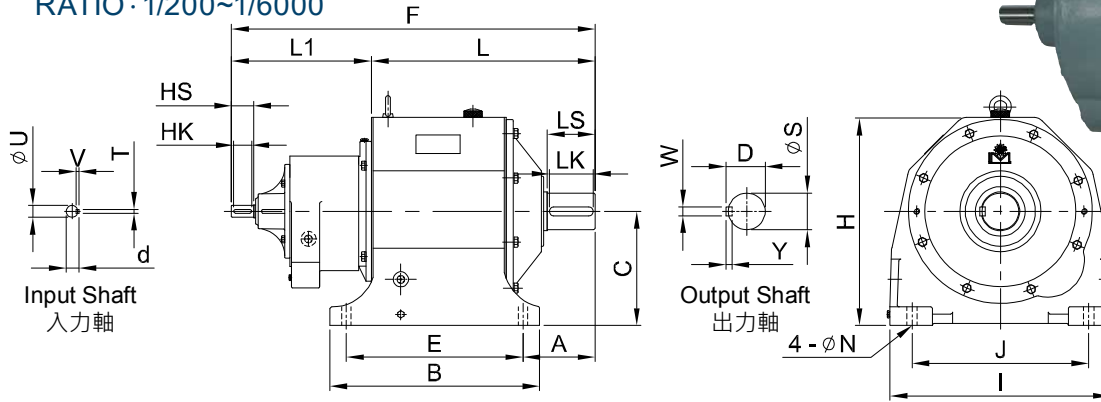
unit: mm

型號 Model	L	L1	M	A	C	H	腳座 Foot Stock					出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)
							E	J	B	I	N	D	LS	S	WxYxLK		
406	226	103	225	81	127	227	170	180	210	230	15	35	55	32	10x8x45	27	1.3
408	259	137	248	87	145	253	205	195	240	260	15	41	60	38	10x8x50	40	2
508	259	103	225	87	145	253	205	195	240	260	15	41	60	38	10x8x50	40	2
410	284	155	242	92	164	289	215	215	265	295	19	45	65	42	12x8x55	54	3
410S	273					286				280							
510	294	166	248	92	164	289	215	215	265	295	19	45	65	42	12x8x55	56	3
510S	273					286				280							
610	306	132	225	92	164	289	215	215	265	295	19	45	65	42	12x8x55	59	3
610S	296					286				280							
412	325	155	322	109	192	332	250	270	295	345	19	51	75	48	12x8x65	74	4
412S	298			105	164	289											
512	337	155	242	109	192	332	250	270	295	345	19	51	75	48	12x8x65	79	4
512S	323			105	164	289											
612	337	166	248	109	192	332	250	270	295	345	19	51	75	48	12x8x65	80.5	4
612S	323			105	164	289											
414	390	189	315	130	210	385	310	310	370	400	22	66	85	62	15x10x75	139	10.5
414S	387			377	390												
514	402	173	322	130	210	385	310	310	370	400	22	66	85	62	15x10x75	145	14
514S	389			377	390												
614	402	173	242	130	210	385	310	310	370	400	22	66	85	62	15x10x75	149	14
614S	399			377	390												
416	471	196	371	157	245	445	360	360	430	450	25	80.5	100	76	20x12x90	188	12
516	492	196	315	157	245	445	360	360	430	450	25	80.5	100	76	20x12x90	206	12
616	492	212	322	157	245	445	360	360	430	450	25	80.5	100	76	20x12x90	211	12
417	508	225	374	172	280	505	380	420	460	530	25	84.5	110	80	20x12x100	262	18
517	508	231	371	172	280	505	380	420	460	530	25	84.5	110	80	20x12x100	269	18
617	523	209	315	172	280	505	380	420	460	530	25	84.5	110	80	20x12x100	270	18
418	607	221	412	196	310	565	480	480	570	600	28	106.5	130	100	24x16x120	392	27
518	628	221	374	196	310	565	480	480	570	600	28	106.5	130	100	24x16x120	423	27
618	628	231	371	196	310	565	480	480	570	600	28	106.5	130	100	24x16x120	430	27

MODEL : LSHD

臥式多速比雙軸減速機 Horizontal Multi-Stage & Double Shaft Reducer

RATIO : 1/200~1/6000



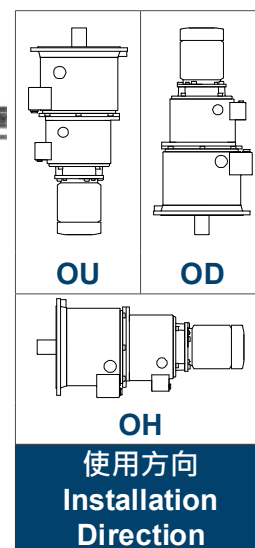
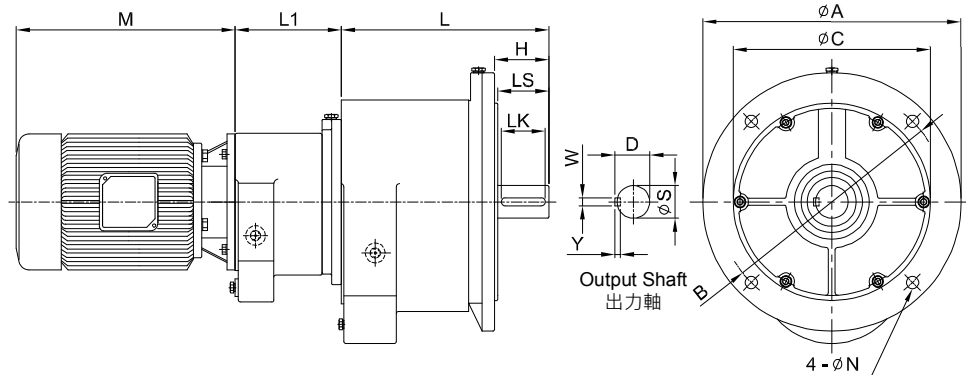
unit: mm

型號 Model	L	L1	F	A	C	H	入力軸 Input Shaft				腳座 Foot Stock				出力軸 Output Shaft				重量 Weight (kg)	油量 Oil (ℓ)	
							U	HS	TxVxHK	d	E	J	B	I	N	S	LS	D			WxYxLK
406	226	190	416	81	127	227	16	35	5x5x25	18	170	180	210	230	15	32	55	35	10x8x45	29	1.3
408	259	243	502	87	145	253	19	40	5x5x30	21	205	195	240	260	15	38	60	41	10x8x50	41	2
508	259	190	449	87	145	253	16	35	5x5x25	18	205	195	240	260	15	38	60	41	10x8x50	41	2
410	283	292	575	92	164	289	24	50	7x7x40	27	215	215	265	295	19	42	65	45	12x8x55	58	3
410S	273		565	286	280	56															
510	283	268	551	92	164	289	19	40	5x5x30	21	215	215	265	295	19	42	65	45	12x8x55	58	3
510S	273	266	539	286	56																
610	306	215	521	92	164	289	16	35	5x5x25	18	215	215	265	295	19	42	65	45	12x8x55	61	3
610S	296		511	286	280	59															
412	325	292	617	109	192	332	24	50	7x7x40	27	250	270	295	345	19	48	75	51	12x8x65	78	4
412S	298		105	164	295	69															
512	337	292	629	109	192	332	24	50	7x7x40	27	250	270	295	345	19	48	75	51	12x8x65	83	4
512S	323		105	164	295	74															
612	337	268	605	109	192	332	19	40	5x5x30	21	250	270	295	345	19	48	75	51	12x8x65	83	4
612S	323		105	164	295	74															
414	390	329	719	130	210	385	28	55	7x7x45	31	310	310	370	400	22	62	85	66	15x10x75	147	8
414S	387		377	390	139																
514	402	310	712	130	210	385	24	50	7x7x40	27	310	310	370	400	22	62	85	66	15x10x75	141	8
514S	399		377	390	132																
614	402	310	712	130	210	385	19	40	5x5x30	21	310	310	370	400	22	62	85	66	15x10x75	145	8
614S	399		377	390	133																
416	471	329	804	157	245	445	28	55	7x7x45	31	360	360	430	450	25	76	100	80.5	20x12x90	194	12
516	492	329	817	157	245	445	28	55	7x7x45	31	360	360	430	450	25	76	100	80.5	20x12x90	212	12
616	492	349	837	157	245	445	24	50	7x7x40	27	360	360	430	450	25	76	100	80.5	20x12x90	213	12
417	511	379	890	178	280	505	32	55	10x8x45	35	380	420	460	530	25	80	110	84.5	20x12x100	272	18
517	511	370	881	178	280	505	28	55	7x7x45	31	380	420	460	530	25	80	110	84.5	20x12x100	275	18
617	526	353	879	178	280	505	32	60	10x8x50	35											
418	607	382	993	196	310	565	32	60	10x8x50	35	480	480	570	600	28	100	130	106.5	24x16x120	402	27
518	628	382	1014	196	310	565	28	55	7x7x45	31	480	480	570	600	28	100	130	106.5	24x16x120	433	27
618	628	370	998	196	310	565	32	60	10x8x50	35											

MODEL : LSV

立式多速比減速機 Vertical Multi-Stage Reducer

RATIO : 1/200~1/6000



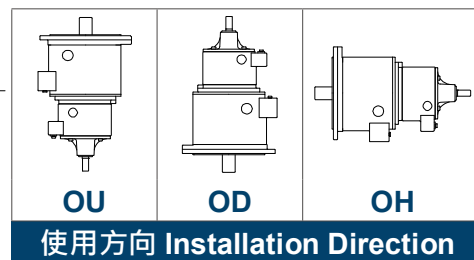
unit: mm

型號 Model	馬力 (4P) HP	L	L1	M	法蘭面 Flange				出力軸 Output Shaft					重量 Weight (kg)
					A	B	C	N	D	LS	S	WxYxLK	H	
406	1/4	216	103	225	243	215	180	14	35	55	32	10x8x45	60	26
408	1/2	239	137	248	280	245	210	14	41	60	38	10x8x50	66	37
508	1/4	238	103	225	280	245	210	14	41	60	38	10x8x50	65	38
410	1	266	155	242	330	300	250	18	45	65	42	12x8x55	70	55
410S	1	259	155	242	300	265	230	18	45	65	42	12x8x55	70	5
510	1/2	266	166	248	330	300	250	18	45	65	42	12x8x55	70	57
510S	1/2	259	166	248	300	265	230	18	45	65	42	12x8x55	70	56
610	1/4	289	132	225	330	300	250	18	45	65	42	12x8x55	70	61
610S	1/4	282	132	225	300	265	230	18	45	65	42	12x8x55	70	60
412	2	30	155	322	380	335	290	18	51	75	48	12x8x65	80	74
412S	2	282	155	322	340	300	250	18	51	75	48	12x8x65	80	67
512	1	31	155	242	380	335	290	18	51	75	48	12x8x65	80	81
512S	1	296	155	242	340	300	25	18	51	75	48	12x8x65	80	81
612	1/2	315	166	248	380	335	290	18	51	75	48	12x8x65	80	83
612S	1/2	296	166	248	340	300	250	18	51	75	48	12x8x65	80	76
414	3	363	1	315	450	400	350	22	66	85	62	15x10x75	90	122
414S	3	361	189	315	440	400	350	22	66	85	62	15x10x75	90	119
514	2	363	156	322	450	400	350	22	66	85	62	15x10x75	90	123
514S	2	378	173	322	440	400	350	22	66	85	62	15x10x75	90	120
614	1	372	1	242	450	400	350	22	66	85	62	15x10x75	90	124
614S	1	378	173	242	440	400	350	22	66	85	62	15x10x75	90	121
416	5	434	196	371	500	450	400	24	80.5	100	76	20x12x90	105	173
416S	5	434	189	371	500	450	400	24	80.5	100	76	20x12x90	105	1
516	3	454	196	315	500	450	400	24	80.5	100	76	20x12x90	105	196
516S	3	454	189	315	500	450	400	24	80.5	100	76	20x12x90	105	195
616	2	454	219	322	500	450	400	24	80.5	100	76	20x12x90	105	201
616S	2	454	212	322	500	450	400	24	80.5	100	76	20x12x90	105	2
417	7 1/2	465	225	374	590	540	480	24	84.5	110	80	20x12x100	115	249
517	5	479	235	371	590	540	480	24	84.5	110	80	2 x12x100	115	256
617	3	484	209	315	590	540	480	24	84.5	110	80	2 x12x100	115	247
418	10	565	221	412	660	610	560	6x24	106.5	130	100	24x16x120	135	342
518	7 1/2	599	221	374	660	610	560	6x24	106.5	130	100	24x16x120	135	383

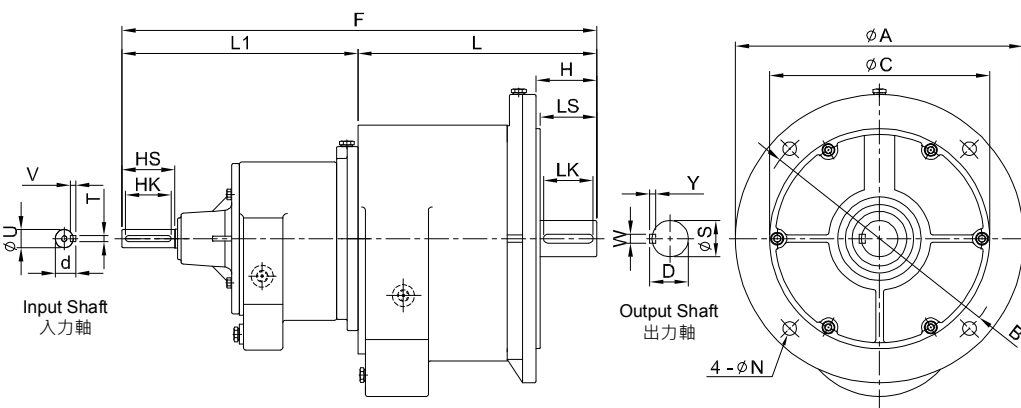
MODEL : LSVD

立式多速比雙軸減速機 Vertical Multi-Stage & Double Shaft Reducer

RATIO : 1/200~1/6000



unit: mm



型號 Model	L	L1	F	法蘭面 Flange				入力軸 Input Shaft				出力軸 Output Shaft					重量 Weight (kg)
				A	B	C	N	d	HS	TxVxHK	U	D	LS	S	WxYxLK	H	
406	216	190	406	243	215	180	14	18	35	5x5x25	16	35	55	32	10x8x45	60	28
408	239	243	482	280	245	210	14	21	40	5x5x30	19	41	60	38	10x8x50	66	38
508	239	190	429	280	245	210	14	18	35	5x5x25	16	41	60	38	10x8x50	65	39
410	266	292	558	330	300	250	18	27	50	7x7x40	24	45	65	42	12x8x55	70	59
410S	259	292	551	300	265	230	18	27	50	7x7x40	24	45	65	42	12x8x55	70	58
510	266	268	534	330	300	250	18	21	40	5x5x30	19	45	65	42	12x8x55	70	59
510S	259	266	525	300	265	230	18	21	40	5x5x30	19	45	65	42	12x8x55	70	58
610	289	215	504	330	300	250	18	18	35	5x5x25	16	45	65	42	12x8x55	70	63
610S	282	215	497	300	265	230	18	18	35	5x5x25	16	45	65	42	12x8x55	70	62
412	305	292	597	380	335	290	18	27	50	7x7x40	24	51	75	48	12x8x65	80	78
412S	282	292	574	340	300	250	18	27	50	7x7x40	24	51	75	48	12x8x65	80	78
512	315	292	607	380	335	290	18	27	50	7x7x40	24	51	75	48	12x8x65	80	85
512S	296	292	588	340	300	250	18	27	50	7x7x40	24	51	75	48	12x8x65	80	85
612	315	268	583	380	335	290	18	21	40	5x5x30	19	51	75	48	12x8x65	80	86
612S	296	268	564	340	300	250	18	21	40	5x5x30	19	51	75	48	12x8x65	80	86
414	363	336	699	450	400	350	22	31	55	7x7x45	28	66	85	62	15x10x75	90	130
414S	361	329	690	440	400	350	22	31	55	7x7x45	28	66	85	62	15x10x75	90	128
514	378	293	656	450	400	350	22	27	50	7x7x40	24	66	85	62	15x10x75	90	127
514S	373	310	683	440	400	350	22	27	50	7x7x40	24	66	85	62	15x10x75	90	125
614	378	268	640	450	400	350	22	21	40	5x5x30	19	66	85	62	15x10x75	90	128
614S	373	310	683	440	400	350	22	27	50	7x7x40	24	66	85	62	15x10x75	90	126
416	434	336	770	500	450	400	24	31	55	7x7x45	28	80.5	100	76	20x12x90	105	181
416S	434	329	763	500	450	400	24	31	55	7x7x45	28	80.5	100	76	20x12x90	105	180
516	452	336	788	500	450	400	24	31	55	7x7x45	28	80.5	100	76	20x12x90	105	204
516S	452	329	781	500	450	400	24	31	55	7x7x45	28	80.5	100	76	20x12x90	105	203
616	452	353	805	500	450	400	24	27	50	7x7x40	24	80.5	100	76	20x12x90	105	206
616S	452	349	801	500	450	400	24	27	50	7x7x40	24	80.5	100	76	20x12x90	105	204
417	479	379	858	590	540	480	24	35	55	10x8x45	32	84.5	110	80	20x12x100	115	259
517	479	370	849	590	540	480	24	31	55	7x7x45	28	84.5	110	80	20x12x100	115	262
517S	479	370	849	590	540	480	24	35	55	10x8x45	32	84.5	110	80	20x12x100	115	262
617	484	353	825	590	540	480	24	31	55	7x7x45	28	84.5	110	80	20x12x100	115	252
418	565	382	951	660	610	560	6x24	35	60	10x8x50	32	106.5	130	100	24x16x120	135	352
518	599	382	986	660	610	560	6x24	31	55	7x7x45	28	106.5	130	100	24x16x120	135	393
518S	599	382	986	660	610	560	6x24	35	60	10x8x50	32	106.5	130	100	24x16x120	135	393

