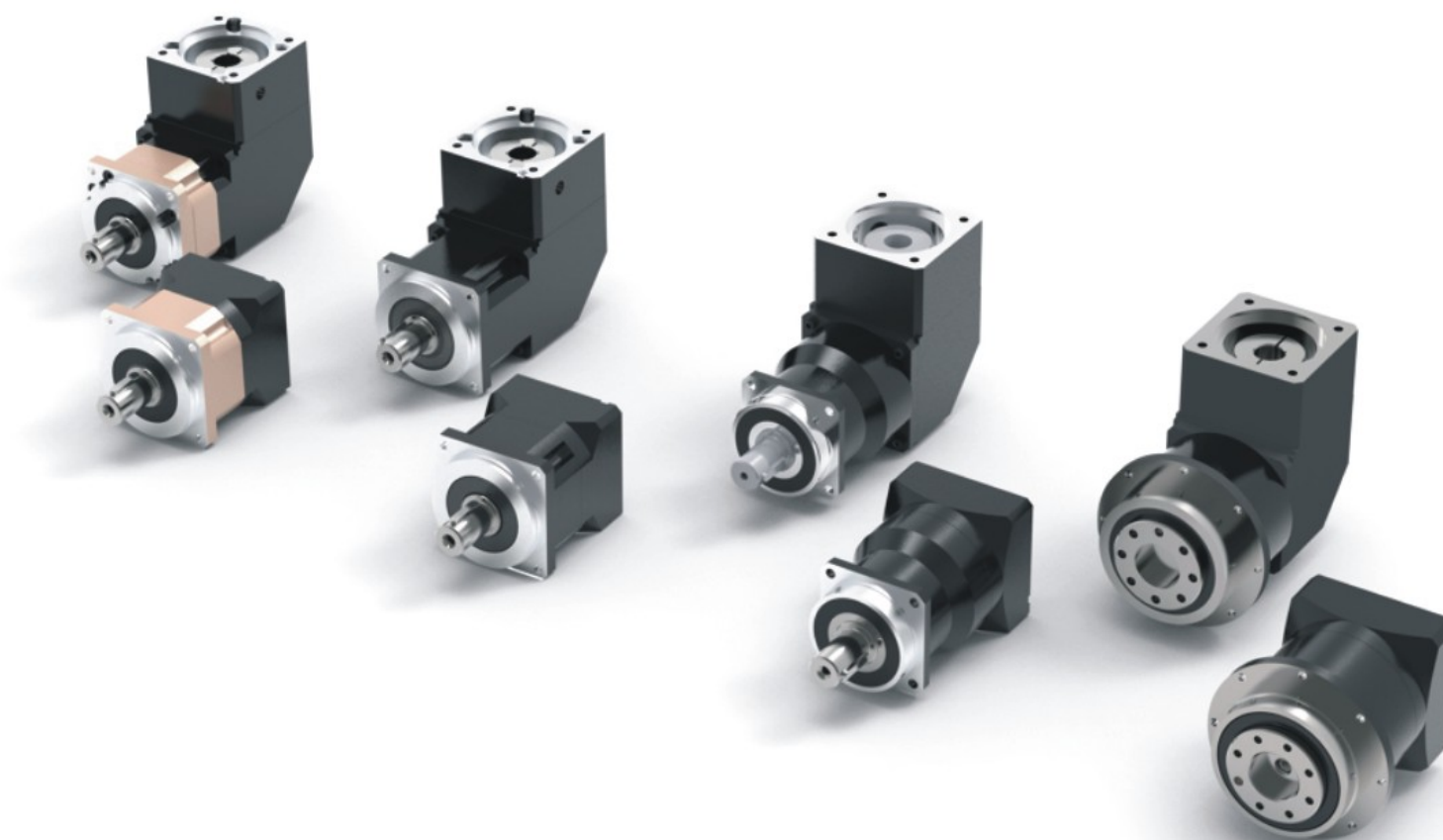


伺服行星減速機高性能系列

Servo Planetary Gearbox Advanced Line

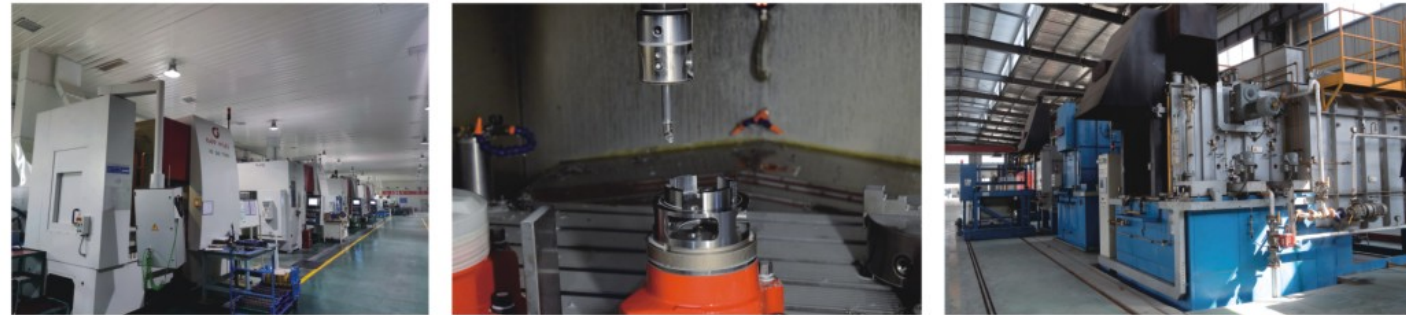


公司簡介

CaesarPlanetary[®] 為 KOFON[®] 動力集團旗下的核心子品牌。CaesarPlanetary[®] 專注於伺服行星減速機的技術研發與製造，致力為全球自動化客戶提供高階伺服行星減速機產品及專業的運動控制技術服務。

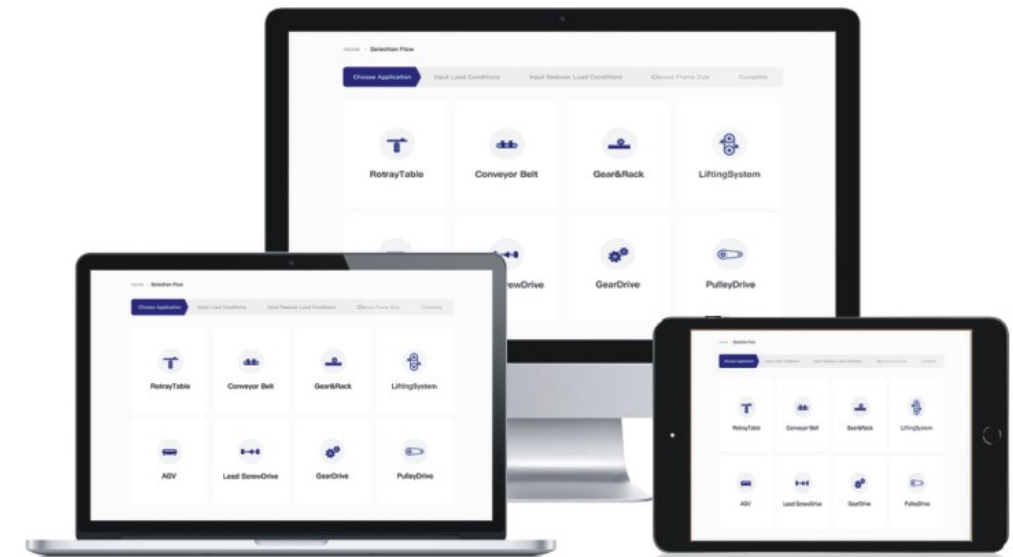
KOFON[®] 專注於高精度運動控制技術，擁有專業的研發與應用能力。

公司成立於1998年，目前在全球擁有超過1,060名員工。公司專注於高精度行星減速機、螺旋錐齒輪減速機及工業自動化整合解決方案的研發、製造與銷售，服務領域涵蓋高精度工具機、智慧物流系統、機器人及新能源等具備可靠能力的工業領域。



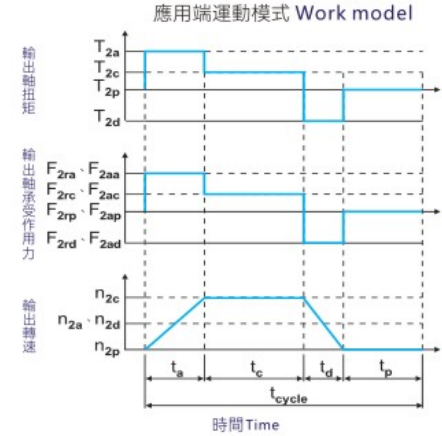
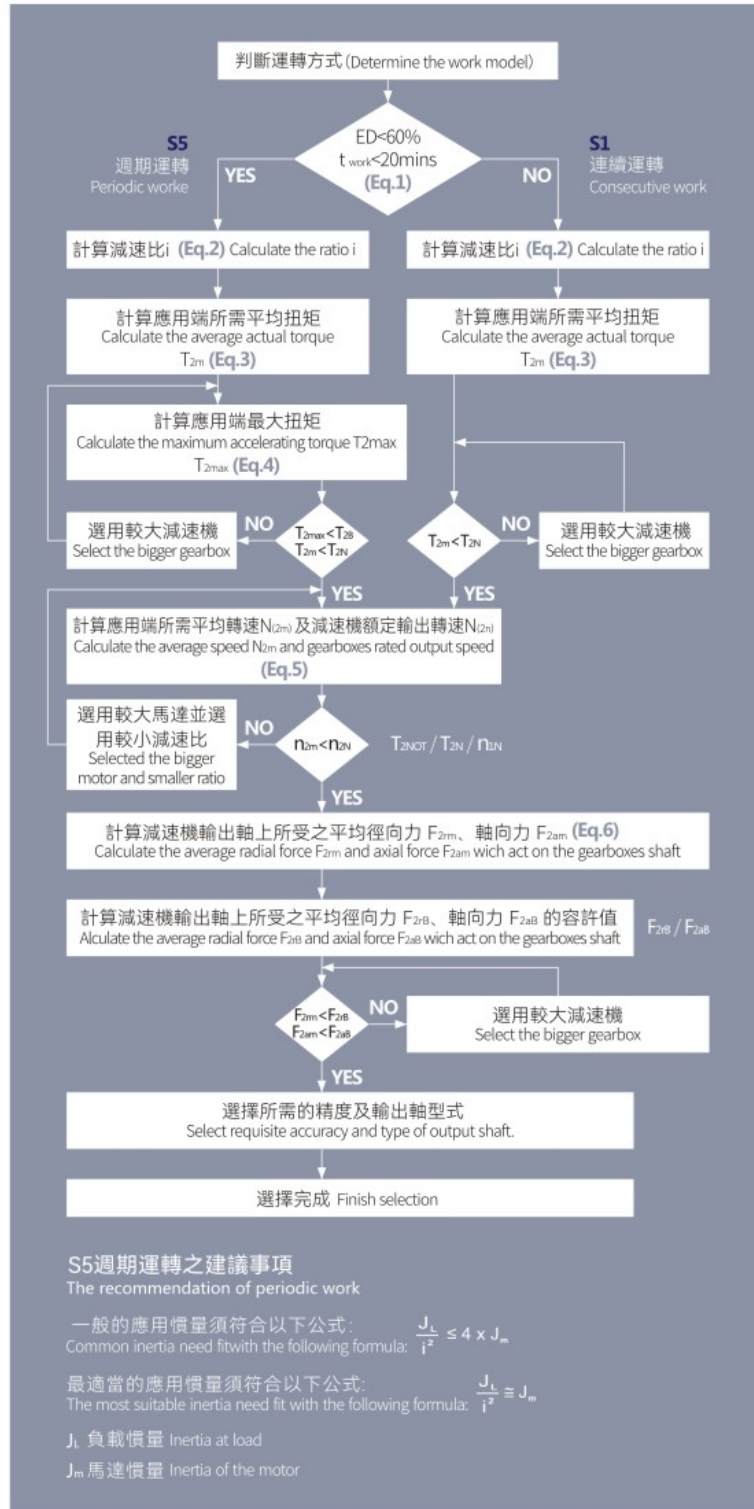
KOFON減速機設計程式 (KDP) 優勢

- 分步引導，實現最優伺服馬達與減速機選型
- 涵蓋全球主流伺服馬達數據，適配齒輪齒條、主軸、傳動帶、輸送機、迴轉工作台等應用
- 提供多行業應用解決方案
- 免費下載PDF、DWG、STEP格式圖紙



減速機選型

訂貨說明



1. $ED = \frac{t_a + t_c + t_d}{t_{cycle}} \times 100\%$, $t_{work} = t_a + t_c + t_d$
下標說明: a.加速, c.等速, explanation: (Eq.1)
d.減速, p.停止 a:accelerated c:constant d:deceleration p:stop

2. $i \cong \frac{n_m}{n_{work}}$
 n_m 馬達輸出速度 Output speed of motor
 n_{work} 實際應用速度 Actual speed on work (Eq.2)

3. $T_{2m} = \sqrt[3]{\frac{n_{2a} \times t_a \times T_{2a}^3 + n_{2c} \times t_c \times T_{2c}^3 + n_{2d} \times t_d \times T_{2d}^3}{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}}$ (Eq.3)

4. $T_{2max} = T_{mB} \times i \times K_A \times \eta$ (Eq.4)

K_A 負載係數 Coefficient at load

K_A	周期次數/小時 Periodic times/hour
1.0	0~1,000
1.1	1,000~1,500
1.3	1,500~2,000
1.6	2,000~3,000
1.8	3,000~5,000

T_{mB} 馬達最大輸出扭矩
The maximum output torque of motor
 η 減速機運轉效率
gearbox efficiency on work (Eq.4)

5. $n_{2a} = n_{2d} = \frac{1}{2} \times n_{2c}$
 $n_{2m} = \frac{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}{t_a + t_c + t_d}$
 $n_{2N} = \frac{n_{2N}}{i}$ (Eq.5)

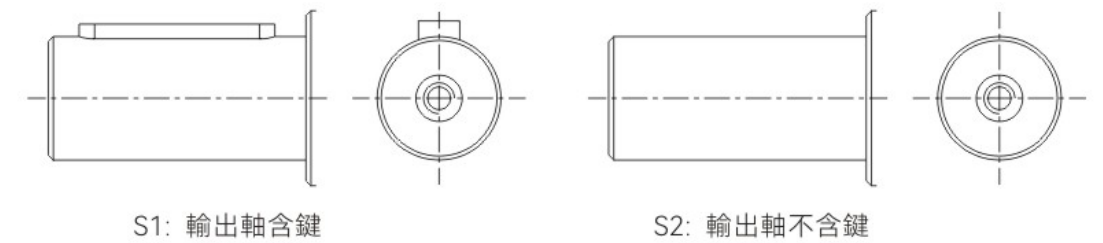
6. $F_{2m} = \sqrt[3]{\frac{n_{2a} \times t_a \times F_{2ra}^3 + n_{2c} \times t_c \times F_{2rc}^3 + n_{2d} \times t_d \times F_{2rd}^3}{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}}$

$F_{2am} = \sqrt[3]{\frac{n_{2a} \times t_a \times F_{2raa}^3 + n_{2c} \times t_c \times F_{2rac}^3 + n_{2d} \times t_d \times F_{2rad}^3}{n_{2a} \times t_a + n_{2c} \times t_c + n_{2d} \times t_d}}$ (Eq.6)

Order Code: SPX-B 120 — 2 — 15 — S1 — P0 — 伺服馬達

- SPX-B**
減速機系列: SPX-B
- 120**
減速機尺寸
- 2**
減速機段數
- 15**
減速比
- S1**
S1: 輸出軸含鍵
S2: 輸出軸不含鍵
- P0**
減速機精度
- 伺服馬達**
(馬達製造商及型號)

輸出軸鍵選項



訂貨範例: SPX-B120-2-15-S1-P0-ABB-8M1230

詳情請諮詢我司技術銷售團隊。

產品目錄

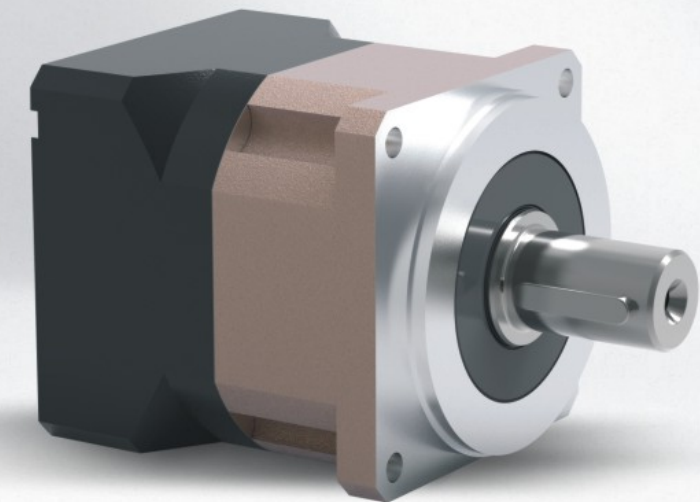
SPX-B (高性價比型減速機)	01
SVX-B (高性價比型減速機)	19
KPX-B (精密型減速機)	35
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KPH (中空型減速機)	69
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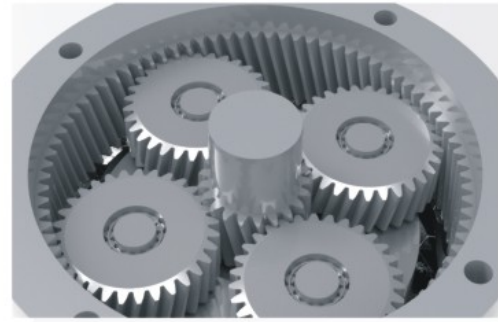
SPX-B

勁強·精密·可靠

▶ 伺服行星減速機

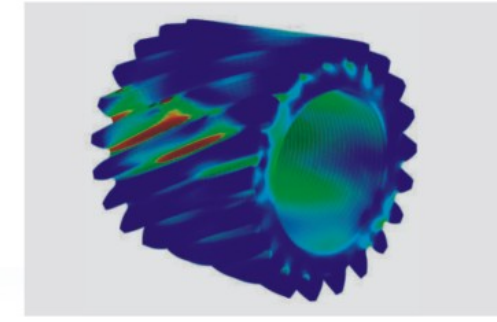
高性價比型減速機





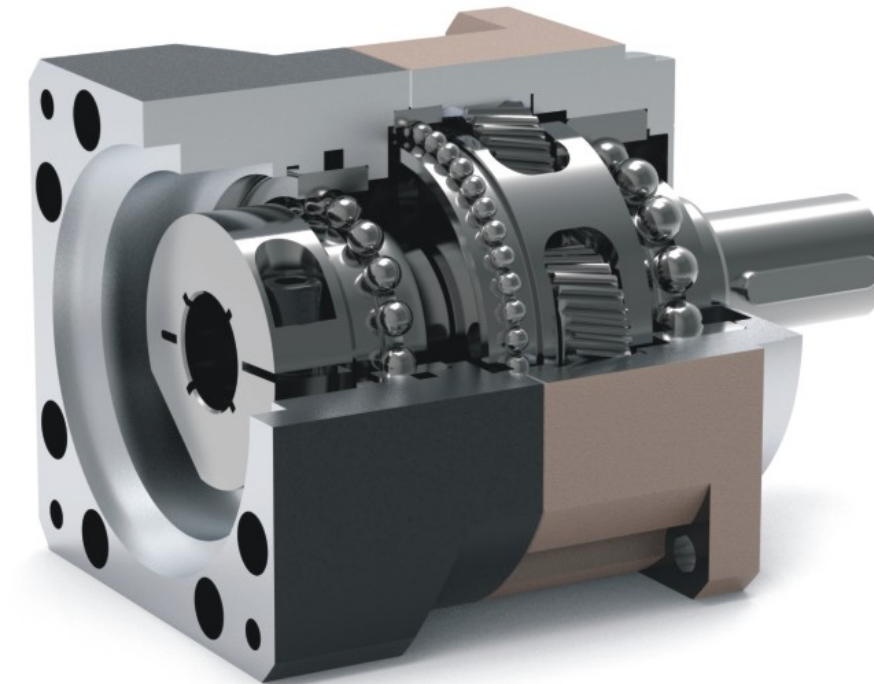
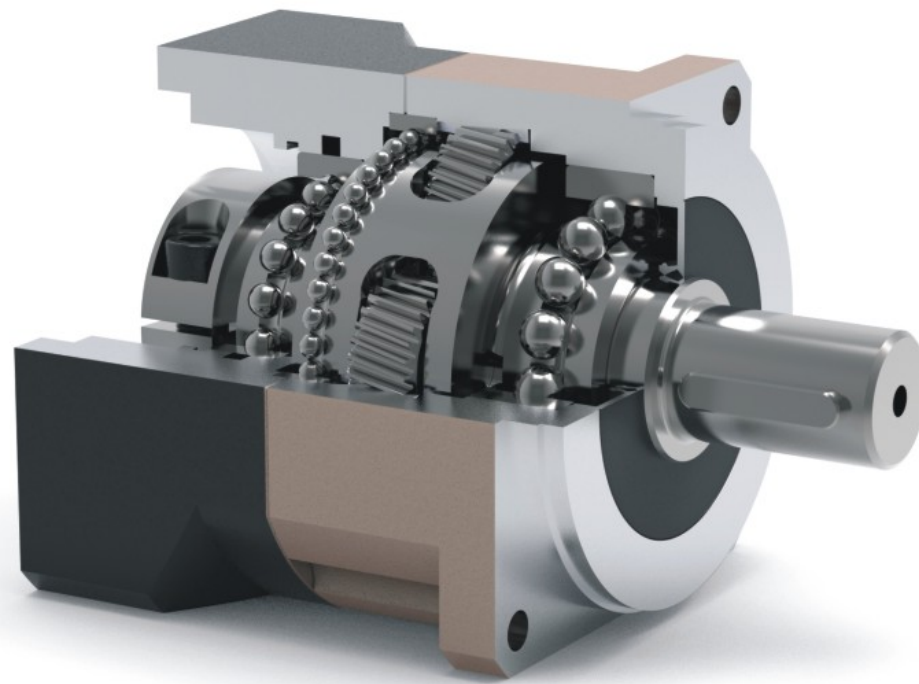
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



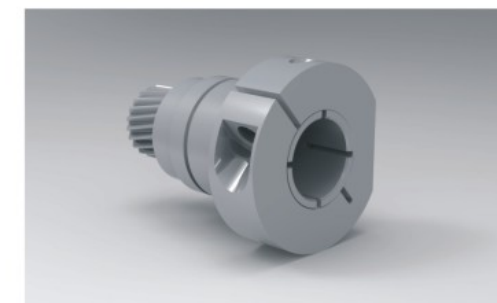
Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

SPX-B045 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	18	17	17	16	16	13	13	13	
		in.lb	159	150	150	142	142	115	115	115	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	54	51	51	48	48	39	39	39	
		in.lb	478	451	451	425	425	345	345	345	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	32.4	30.6	30.6	28.8	28.8	23.4	23.4	23.4	
		in.lb	287	271	271	255	255	207	207	207	
最大扭矩 Maximum Torque	T_{2a}	Nm	36	34	34	32	32	26	26	26	
		in.lb	319	301	301	283	283	230	230	230	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	8000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.13	0.12	0.11	0.11	0.1	0.1	0.1	0.1	
		in.lb	1.15	1.06	0.97	0.97	0.89	0.89	0.89	0.89	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	.8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	3								
		in.lb/arcmin	26.55								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	770								
		lb _r	173								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	380								
		lb _a	85								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	19								
		in.lb	168								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.031	0.022	0.019	0.017	0.017	0.017	0.017	0.017	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 56								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	0.6								
		lb _m	1.3								

SPX-B045 2-stages

		2-stages																
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	18	17	17	17	17	17	17	17	16	16	13	13	13			
		in.lb	159	150	150	150	150	150	150	150	142	142	115	115	115			
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	54	51	51	51	51	51	51	51	48	48	39	39	39			
		in.lb	478	451	451	451	451	451	451	451	425	425	345	345	345			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	32.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	28.8	28.8	23.4	23.4	23.4			
		in.lb	287	271	271	271	271	271	271	271	255	255	207	207	207			
最大扭矩 Maximum Torque	T_{2a}	Nm	36	34	34	34	34	34	34	34	32	32	26	26	26			
		in.lb	319	301	301	301	301	301	301	301	283	283	230	230	230			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	8000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.1	0.1	0.1	0.1	0.1			
		in.lb	1.06	1.06	1.06	0.97	0.97	0.97	0.97	0.97	0.89	0.89	0.89	0.89	0.89			
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10															
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	3															
		in.lb/arcmin	26.55															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	770															
		lb _r	173															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	380															
		lb _a	85															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	19															
		in.lb	168															
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.027	0.019	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 56															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)															
重量 Weight	m	kg	0.9															
		lb _m	2															

SPX-B065 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	55	48	48	45	40	40	40	40	
		in.lb	487	425	425	398	354	354	354	354	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	165	144	144	135	120	120	120	120	
		in.lb	1460	1275	1275	1195	1062	1062	1062	1062	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	99	86.4	86.4	81	72	72	72	72	
		in.lb	876	765	765	717	637	637	637	637	
最大扭矩 Maximum Torque	T_{2a}	Nm	110	96	96	90	80	80	80	80	
		in.lb	974	850	850	797	708	708	708	708	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.26	0.22	0.19	0.17	0.17	0.17	0.17	0.17	
		in.lb	2.30	1.95	1.68	1.50	1.50	1.50	1.50	1.50	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	7								
		in.lb/arcmin	61.95								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500								
		lb _r	337								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760								
		lb _a	171								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	90								
		in.lb	797								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.16	0.14	0.13	0.13	0.13	0.13	0.13	0.13	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	1.4								
		lb _m	3.1								

SPX-B065 2-stages

		2-stages																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	55	48	48	48	48	48	48	48	48	45	40	40	40	40			
		in.lb	487	425	425	425	425	425	425	425	425	425	398	354	354	354			
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	165	144	144	144	144	144	144	144	144	135	120	120	120	120			
		in.lb	1460	1275	1275	1275	1275	1275	1275	1275	1275	1195	1062	1062	1062	1062			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	99	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	81	72	72	72	72			
		in.lb	876	765	765	765	765	765	765	765	765	717	637	637	637	637			
最大扭矩 Maximum Torque	T_{2a}	Nm	110	96	96	96	96	96	96	96	96	90	80	80	80	80			
		in.lb	974	850	850	850	850	850	850	850	850	797	708	708	708	708			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.19	0.19	0.19	0.17	0.22	0.17	0.17	0.17	0.19	0.17	0.17	0.17	0.17	0.17			
		in.lb	1.68	1.68	1.68	1.50	1.95	1.50	1.50	1.50	1.68	1.50	1.50	1.50	1.50	1.50			
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10																
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	7																
		in.lb/arcmin	61.95																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500																
		lb _r	337																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760																
		lb _a	171																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	90																
		in.lb	797																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.124	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																
重量 Weight	m	kg	1.6																
		lb _m	3.5																

SPX-B085 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	150	135	135	130	130	120	120	120	
		in.lb	1328	1195	1195	1151	1151	1062	1062	1062	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	450	405	405	390	390	360	360	360	
		in.lb	3983	3585	3585	3452	3452	3186	3186	3186	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	270	243	243	234	234	216	216	216	
		in.lb	2390	2151	2151	2071	2071	1912	1912	1912	
最大扭矩 Maximum Torque	T_{2a}	Nm	300	270	270	260	260	240	240	240	
		in.lb	2655	2390	2390	2301	2301	2124	2124	2124	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.4	0.4	0.33	0.31	0.27	0.27	0.27	0.27	
		in.lb	3.54	3.54	2.92	2.74	2.39	2.39	2.39	2.39	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	14								
		in.lb/arcmin	123.91								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200								
		lb _r	719								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600								
		lb _a	360								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	214								
		in.lb	1894								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	3.3								
		lb _m	7.3								

SPX-B085 2-stages

		2-stages																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	150	135	135	135	135	135	135	135	135	130	130	120	120	120			
		in.lb	1328	1195	1195	1195	1195	1195	1195	1195	1195	1151	1151	1062	1062	1062			
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	450	405	405	405	405	405	405	405	405	390	390	360	360	360			
		in.lb	3983	3585	3585	3585	3585	3585	3585	3585	3585	3452	3452	3186	3186	3186			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	270	243	243	243	243	243	243	243	243	234	234	216	216	216			
		in.lb	2390	2151	2151	2151	2151	2151	2151	2151	2151	2071	2071	1912	1912	1912			
最大扭矩 Maximum Torque	T_{2a}	Nm	300	270	270	270	270	270	270	270	270	260	260	240	240	240			
		in.lb	2655	2390	2390	2390	2390	2390	2390	2390	2390	2301	2301	2124	2124	2124			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.33	0.33	0.33	0.33	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27			
		in.lb	2.92	2.92	2.92	2.92	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39			
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10																
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	14																
		in.lb/arcmin	123.91																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200																
		lb _r	719																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600																
		lb _a	360																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	214																
		in.lb	1894																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.44	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																
重量 Weight	m	kg	4.5																
		lb _m	9.9																

SPX-B115 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	310	280	280	268	268	245	245	245	
		in.lb	2744	2478	2478	2372	2372	2168	2168	2168	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	930	840	840	804	804	735	735	735	
		in.lb	8231	7435	7435	7116	7116	6505	6505	6505	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	558	504	504	482.4	482.4	441	441	441	
		in.lb	4939	4461	4461	4270	4270	3903	3903	3903	
最大扭矩 Maximum Torque	T_{2a}	Nm	620	560	560	536	536	490	490	490	
		in.lb	5487	4956	4956	4744	4744	4337	4337	4337	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.2	0.97	0.87	0.83	0.8	0.8	0.8	0.8	
		in.lb	10.62	8.59	7.70	7.35	7.08	7.08	7.08	7.08	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	25								
		in.lb/arcmin	221.27								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700								
		lb _r	1506								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300								
		lb _a	742								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	603								
		in.lb	5337								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	3.25	2.74	2.71	2.62	2.62	2.62	2.62	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	5.5								
		lb _m	12.1								

SPX-B115 2-stages

		2-stages																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	310	280	280	280	280	280	280	280	280	268	268	245	245	245			
		in.lb	2744	2478	2478	2478	2478	2478	2478	2478	2478	2478	2372	2372	2168	2168	2168		
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	930	840	840	840	840	840	840	840	840	804	804	735	735	735			
		in.lb	8231	7435	7435	7435	7435	7435	7435	7435	7435	7435	7116	7116	6505	6505	6505		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	558	504	504	504	504	504	504	504	504	482.4	482.4	441	441	441			
		in.lb	4939	4461	4461	4461	4461	4461	4461	4461	4461	4461	4270	4270	3903	3903	3903		
最大扭矩 Maximum Torque	T_{2a}	Nm	620	560	560	560	560	560	560	560	560	536	536	490	490	490			
		in.lb	5487	4956	4956	4956	4956	4956	4956	4956	4956	4956	4744	4744	4337	4337	4337		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.87	0.87	0.87	0.83	0.8	0.8	0.8	0.8	0.8	0.83	0.8	0.8	0.8	0.8			
		in.lb	7.70	7.70	7.70	7.35	7.08	7.08	7.08	7.08	7.08	7.35	7.08	7.08	7.08	7.08			
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10																
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	25																
		in.lb/arcmin	221.27																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700																
		lb _r	1506																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300																
		lb _a	742																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	603																
		in.lb	5337																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	2.58	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																
重量 Weight	m	kg	8																
		lb _m	17.6																

SPX-B142 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	570	540	540	500	500	450	450	450	
		in.lb	5045	4779	4779	4425	4425	3983	3983	3983	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	1710	1620	1620	1500	1500	1350	1350	1350	
		in.lb	15135	14338	14338	13276	13276	11948	11948	11948	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1026	972	972	900	900	810	810	810	
		in.lb	9081	8603	8603	7966	7966	7169	7169	7169	
最大扭矩 Maximum Torque	T_{2a}	Nm	1140	1080	1080	1000	1000	900	900	900	
		in.lb	10090	9559	9559	8851	8851	7966	7966	7966	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.57	2.47	2.32	2.22	2.22	2.22	2.22	2.22	
		in.lb	22.75	21.86	20.53	19.65	19.65	19.65	19.65	19.65	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	50								
		in.lb/arcmin	442.54								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600								
		lb _r	2158								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800								
		lb _a	1079								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1275								
		in.lb	11285								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.31	7.54	7.42	7.25	7.25	7.14	7.14	7.14	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	20								
		lb _m	44.1								

SPX-B142 2-stages

		2-stages																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	570	540	540	540	540	540	540	540	540	500	500	450	450	450			
		in.lb	5045	4779	4779	4779	4779	4779	4779	4779	4779	4779	4425	4425	3983	3983	3983		
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	1710	1620	1620	1620	1620	1620	1620	1620	1620	1500	1500	1350	1350	1350			
		in.lb	15135	14338	14338	14338	14338	14338	14338	14338	14338	14338	13276	13276	11948	11948	11948		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1026	972	972	972	972	972	972	972	972	900	900	810	810	810			
		in.lb	9081	8603	8603	8603	8603	8603	8603	8603	8603	8603	7966	7966	7169	7169	7169		
最大扭矩 Maximum Torque	T_{2a}	Nm	1140	1080	1080	1080	1080	1080	1080	1080	1080	1000	1000	900	900	900			
		in.lb	10090	9559	9559	9559	9559	9559	9559	9559	9559	9559	8851	8851	7966	7966	7966		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.42	2.42	2.42	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32		
		in.lb	21.42	21.42	21.42	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53	20.53		
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10																
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	50																
		in.lb/arcmin	442.54																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600																
		lb _r	2158																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800																
		lb _a	1079																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1275																
		in.lb	11285																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.35	6.65	5.81	6.34	6.34	5.36	4.08	5.36	4.08	7.4	7.4	7.4	7.4	7.4			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																
重量 Weight	m	kg	25																
		lb _m	55.1																

SPX-B180 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	1100	1085	1085	990	990	940	940	940	
		in.lb	9736	9603	9603	8762	8762	8320	8320	8320	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	3300	3255	3255	2970	2970	2820	2820	2820	
		in.lb	29207	28809	28809	26287	26287	24959	24959	24959	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1980	1953	1953	1782	1782	1692	1692	1692	
		in.lb	17524	17285	17285	15772	15772	14975	14975	14975	
最大扭矩 Maximum Torque	T_{2a}	Nm	2200	2170	2170	1980	1980	1880	1880	1880	
		in.lb	19472	19206	19206	17524	17524	16639	16639	16639	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.52	3.32	3.17	3.02	3.02	3.02	3.02	3.02	
		in.lb	31.15	29.38	28.06	26.73	26.73	26.73	26.73	26.73	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	140								
		in.lb/arcmin	1239.1								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000								
		lb _r	3147								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000								
		lb _a	1574								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2013								
		in.lb	17816								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.98	23.67	22.75	22.48	22.48	22.59	22.59	22.55	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	31								
		lb _m	68.3								

SPX-B180 2-stages

		2-stages																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	1100	1085	1085	1085	1085	1085	1085	1085	1085	990	990	940	940	940			
		in.lb	9736	9603	9603	9603	9603	9603	9603	9603	9603	9603	8762	8762	8320	8320	8320		
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	3300	3255	3255	3255	3255	3255	3255	3255	3255	2970	2970	2820	2820	2820			
		in.lb	29207	28809	28809	28809	28809	28809	28809	28809	28809	28809	26287	26287	24959	24959	24959		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1980	1953	1953	1953	1953	1953	1953	1953	1953	1782	1782	1692	1692	1692			
		in.lb	17524	17285	17285	17285	17285	17285	17285	17285	17285	17285	15772	15772	14975	14975	14975		
最大扭矩 Maximum Torque	T_{2a}	Nm	2200	2170	2170	2170	2170	2170	2170	2170	2170	1980	1980	1880	1880	1880			
		in.lb	19472	19206	19206	19206	19206	19206	19206	19206	19206	19206	17524	17524	16639	16639	16639		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.32	2.32	2.32	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22			
		in.lb	20.53	20.53	20.53	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65			
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10																
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	140																
		in.lb/arcmin	1239.1																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000																
		lb _r	3147																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000																
		lb _a	1574																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2013																
		in.lb	17816																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.3	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																
重量 Weight	m	kg	39																
		lb _m	86																

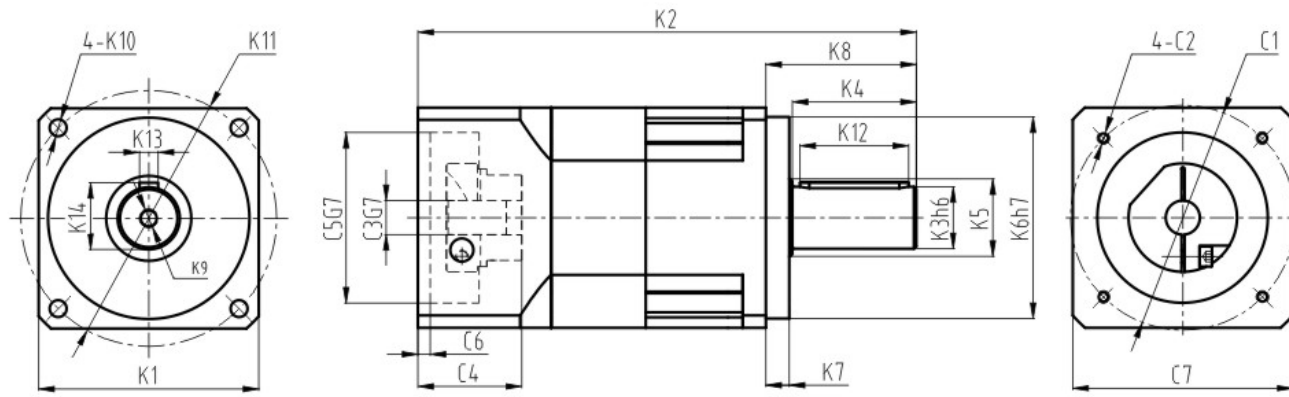
SPX-B220 1-Stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	1800	1785	1785	1695	1660	1620	1580	1580	
		in.lb	15931	15798	15798	15002	14692	14338	13984	13984	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	5400	5355	5355	5085	4980	4860	4740	4740	
		in.lb	47794	47395	47395	45006	44076	43014	41952	41952	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3240	3213	3213	3051	2988	2916	2844	2844	
		in.lb	28676	28437	28437	27003	26446	25809	25171	25171	
最大扭矩 Maximum Torque	T_{2a}	Nm	3600	3570	3570	3390	3320	3240	3160	3160	
		in.lb	31863	31597	31597	30004	29384	28676	27968	27968	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	5.22	5.02	4.87	4.69	4.69	4.69	4.69	4.69	
		in.lb	46.20	44.43	43.10	41.51	41.51	41.51	41.51	41.51	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤8								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	220								
		in.lb/arcmin	1947.2								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000								
		lb _r	3597								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000								
		lb _a	1798								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2676								
		in.lb	23684								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	69.61	54.37	53.27	50.84	50.84	50.84	50.84	50.56	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)								
重量 Weight	m	kg	53								
		lb _m	117								

SPX-B220 2-stages

		2-stages																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	1800	1785	1785	1785	1785	1785	1785	1785	1785	1695	1660	1620	1580	1580			
		in.lb	15931	15798	15798	15798	15798	15798	15798	15798	15798	15002	14692	14338	13984	13984			
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	5400	5355	5355	5355	5355	5355	5355	5355	5355	5085	4980	4860	4740	4740			
		in.lb	47794	47395	47395	47395	47395	47395	47395	47395	47395	45006	44076	43014	41952	41952			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3240	3213	3213	3213	3213	3213	3213	3213	3213	3051	2988	2916	2844	2844			
		in.lb	28676	28437	28437	28437	28437	28437	28437	28437	28437	27003	26446	25809	25171	25171			
最大扭矩 Maximum Torque	T_{2a}	Nm	3600	3570	3570	3570	3570	3570	3570	3570	3570	3390	3320	3240	3160	3160			
		in.lb	31863	31597	31597	31597	31597	31597	31597	31597	31597	30004	29384	28676	27968	27968			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.17	3.17	3.17	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02			
		in.lb	28.06	28.06	28.06	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73			
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10																
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	220																
		in.lb/arcmin	1947.2																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000																
		lb _r	3597																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000																
		lb _a	1798																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2676																
		in.lb	23684																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.92	22.75	22.75	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																
重量 Weight	m	kg	66																
		lb _m	145.5																

SPX-B Dimensions



Model	SPX-B045		SPX-B065		SPX-B085		SPX-B115		SPX-B142		SPX-B180		SPX-B220	
Stage	1	2	1	2	1	2	1	2	1	2	1	2	1	2
K1	45	65	85	110	142	180	220							
	1.772	2.559	3.346	4.331	5.591	7.087	8.661							
K2	85.5	103.5	115	138.7	138	169.3	198	239.8	275.5	336.5	288	348	357.5	402
	3.484	4.075	4.528	5.461	5.433	6.665	7.795	9.441	10.846	13.248	11.339	13.701	14.075	15.827
K3	13	16	22	32	40	55	75							
	0.472	0.630	0.866	1.260	1.575	2.165	2.953							
K4	20	30	36	50	80	82	105							
	0.906	1.181	1.417	1.969	3.150	3.228	4.134							
K5	15	20	30	40	50	60	85							
	0.591	0.787	1.181	1.575	1.969	2.362	3.346							
K6	35	50	80	110	130	160	180							
	1.378	1.969	3.150	4.331	5.118	6.299	7.087							
K7	4	5	10	12	15	20	30							
	0.157	0.197	0.394	0.472	0.591	0.787	1.181							
K8	25	37	48	65	97	105	138							
	1.102	1.457	1.890	2.559	3.819	4.134	5.433							
K9	M3X9	M5X12	M6X16	M10X22	M12X25	M20X40	M20X40							
K10	3.5	5.5	6.5	9	11	13	17							
	50	70	100	130	165	215	250							
K11	1.969	2.756	3.937	5.118	6.496	8.465	9.843							
K12	16	22	28	40	70	70	90							
	0.630	0.866	1.102	1.575	2.756	2.756	3.543							
K13	4	5	6	10	12	16	20							
	0.157	0.197	0.236	0.394	0.472	0.630	0.787							
K14	13.5	18	24.5	35	43	59	79.5							
	0.531	0.709	0.965	1.378	1.693	2.323	3.130							
C1	46	70	90	145	200	215	235	215						
	1.811	2.756	3.543	5.709	7.874	8.465	9.252	8.465						
C2	M4X10	M5X12	M6X15	M8X20	M12X25	M12X25	M12X25	M12X25						
	8	14	19	24	35	42	55	42						
C3	0.315	0.551	0.748	0.945	1.378	1.654	2.165	1.654						
	26.1	32.1	41.6	61.3	82	82.5	115.5	82.5						
C4	1.028	1.264	1.638	2.413	3.228	3.248	4.547	3.248						
	30	50	70	110	114.3	180	200	180						
C5	1.181	1.969	2.756	4.331	4.500	7.087	7.874	7.087						
	5	6.5	6.5	8	8	8	8	8						
C6	0.197	0.256	0.256	0.315	0.315	0.315	0.315	0.315						
	45	65	85	120	175	190	220	190						
C7	1.772	2.559	3.346	4.724	6.890	7.480	8.661	7.480						

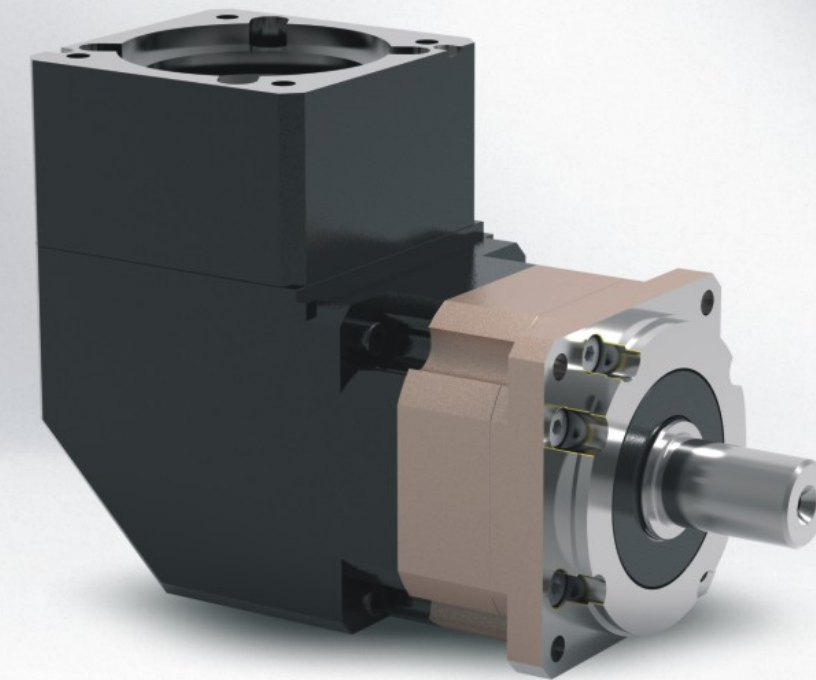
減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

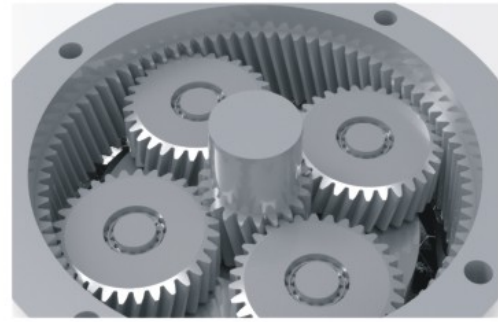
SVX-B

勁強·精密·可靠

▶ 伺服行星減速機

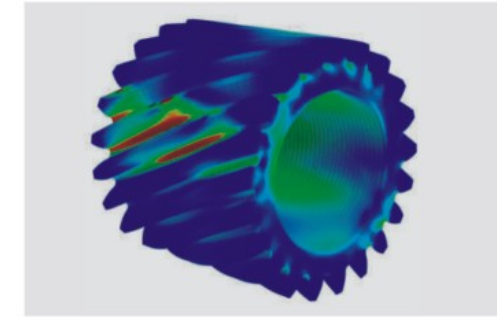
高性價比型減速機





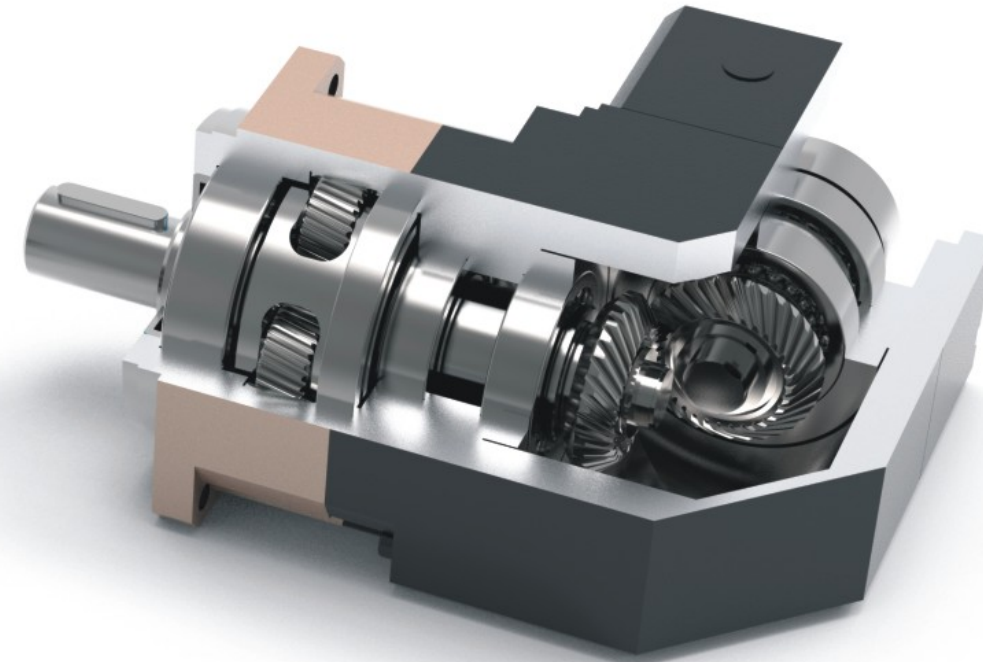
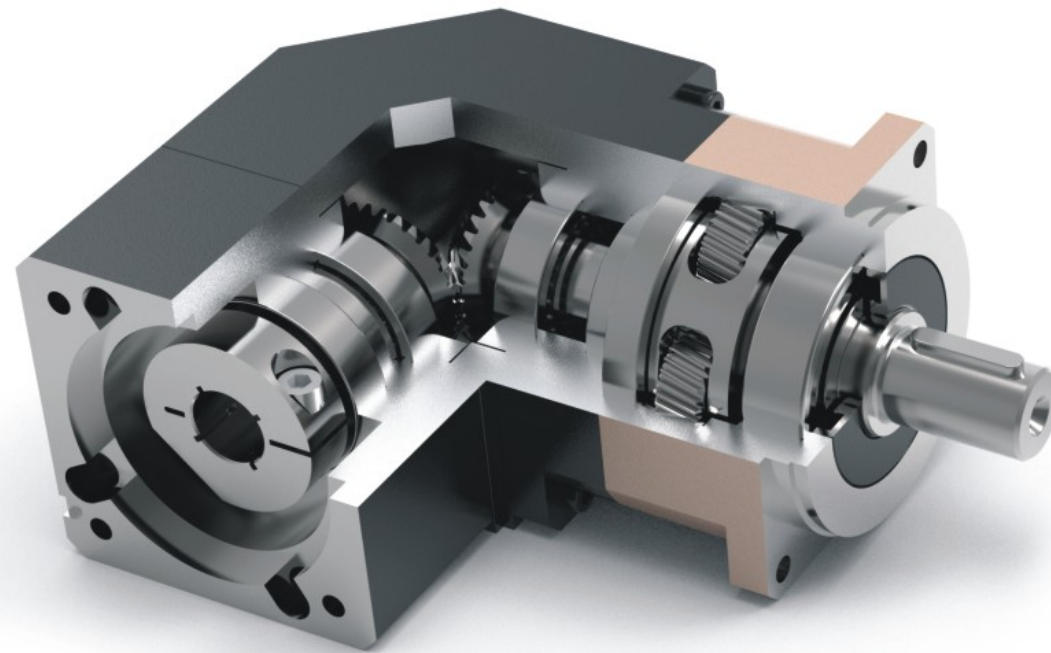
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



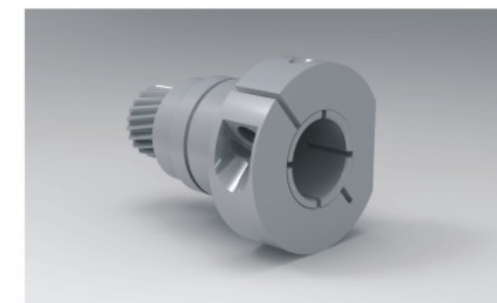
Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

SVX-B065 1-Stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	55	48	48	45	40	40	40	40	45	40	40	40	40	40	
		in.lb	487	425	425	398	354	354	354	354	398	354	354	354	354	354	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	165	144	144	135	120	120	120	120	135	120	120	120	120	120	
		in.lb	1460	1275	1275	1195	1062	1062	1062	1062	1195	1062	1062	1062	1062	1062	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	99	86.4	86.4	81	72	72	72	72	81	72	72	72	72	72	
		in.lb	876	765	765	717	637	637	637	637	717	637	637	637	637	637	
最大扭矩 Maximum Torque	T_{2a}	Nm	110	96	96	90	80	80	80	80	90	80	80	80	80	80	
		in.lb	974	850	850	797	708	708	708	708	797	708	708	708	708	708	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.31	0.27	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	
		in.lb	2.74	2.39	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10														
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	7														
		in.lb/arcmin	61.95														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500														
		lb _r	337														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760														
		lb _a	171														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	90														
		in.lb	797														
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.160	0.140	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mouting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)														
重量 Weight	m	kg	2.2														
		lb _m	4.8														

SVX-B065 2-stages

		2-stages																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	55	48	48	48	48	48	48	48	45	40	40	40	40	45	40	40	40	40	40
		in.lb	487	425	425	425	425	425	425	425	398	354	354	354	354	398	354	354	354	354	354
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	165	144	144	144	144	144	144	144	135	120	120	120	120	135	120	120	120	120	
		in.lb	1460	1275	1275	1275	1275	1275	1275	1275	1195	1062	1062	1062	1062	1195	1062	1062	1062	1062	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	99	86.4	86.4	86.4	86.4	86.4	86.4	86.4	81	72	72	72	72	81	72	72	72	72	
		in.lb	876	765	765	765	765	765	765	765	717	637	637	637	637	717	637	637	637	637	
最大扭矩 Maximum Torque	T_{2a}	Nm	110	96	96	96	96	96	96	96	90	80	80	80	80	90	80	80	80	80	
		in.lb	974	850	850	850	850	850	850	850	797	708	708	708	708	797	708	708	708	708	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.21	0.21	0.21	0.21	0.19	0.19	0.19	0.19	0.21	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	
		in.lb	1.86	1.86	1.86	1.86	1.68	1.68	1.68	1.68	1.86	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤12																		
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	3																		
		in.lb/arcmin	26.55																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500																		
		lb _r	337																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760																		
		lb _a	171																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	80																		
		in.lb	708																		
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.075	0.075	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.075	0.064	0.064	0.064	0.064		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63																		
滿載效率 Efficiency at Full loading	η	%	95																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mouting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																		
重量 Weight	m	kg	2																		
		lb _m	5.28																		

SVX-B085 1-Stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	150	135	135	130	130	120	120	120	130	130	120	120	120	120
		in.lb	1328	1195	1195	1151	1151	1062	1062	1062	1151	1151	1062	1062	1062	1062
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	450	405	405	390	390	360	360	360	390	390	360	360	360	360
		in.lb	3983	3585	3585	3452	3452	3186	3186	3186	3452	3452	3186	3186	3186	3186
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	270	243	243	234	234	216	216	216	234	234	216	216	216	216
		in.lb	2390	2151	2151	2071	2071	1912	1912	1912	2071	2071	1912	1912	1912	1912
最大扭矩 Maximum Torque	T_{2a}	Nm	300	270	270	260	260	240	240	240	260	260	240	240	240	240
		in.lb	2655	2390	2390	2301	2301	2124	2124	2124	2301	2301	2124	2124	2124	2124
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.45	0.45	0.38	0.36	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
		in.lb	3.98	3.98	3.36	3.19	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10													
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	14													
		in.lb/arcmin	123.91													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200													
		lb _r	719													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600													
		lb _a	360													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	214													
		in.lb	1894													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	0.44	0.44	0.44	0.44	0.44	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)													
重量 Weight	m	kg	5.3													
		lb _m	11.7													

SVX-B085 2-stages

		2-stages																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	150	135	135	135	135	135	135	135	135	130	130	120	120	120	130	130	120	120	120	
		in.lb	1328	1195	1195	1195	1195	1195	1195	1195	1195	1151	1151	1062	1062	1062	1151	1151	1062	1062	1062	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	450	405	405	405	405	405	405	405	390	390	360	360	360	390	390	360	360	360	360	
		in.lb	3983	3585	3585	3585	3585	3585	3585	3585	3452	3452	3186	3186	3186	3452	3452	3186	3186	3186	3186	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	270	243	243	243	243	243	243	243	234	234	216	216	216	234	234	216	216	216	216	
		in.lb	2390	2151	2151	2151	2151	2151	2151	2151	2071	2071	1912	1912	1912	2071	2071	1912	1912	1912	1912	
最大扭矩 Maximum Torque	T_{2a}	Nm	300	270	270	270	270	270	270	270	260	260	240	240	240	260	260	240	240	240	240	
		in.lb	2655	2390	2390	2390	2390	2390	2390	2390	2301	2301	2124	2124	2124	2301	2301	2124	2124	2124	2124	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.38	0.38	0.38	0.38	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.29	0.29	0.29	0.29	0.29	0.29	
		in.lb	3.36	3.36	3.36	3.36	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.57	2.57	2.57	2.57	2.57	2.57	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤12																			
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	4.8																			
		in.lb/arcmin	42.48																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200																			
		lb _r	719																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600																			
		lb _a	360																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	200																			
		in.lb	1770																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.44	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65																			
滿載效率 Efficiency at Full loading	η	%	95																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																			
重量 Weight	m	kg	6																			
		lb _m	14.3																			

SVX-B115 1-Stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	310	280	280	268	268	245	245	245	268	268	245	245	245	
		in.lb	2744	2478	2478	2372	2372	2168	2168	2168	2372	2372	2168	2168	2168	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	930	840	840	804	804	735	735	735	804	804	735	735	735	
		in.lb	8231	7435	7435	7116	7116	6505	6505	6505	7116	7116	6505	6505	6505	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	558	504	504	482.4	482.4	441	441	441	482.4	482.4	441	441	441	
		in.lb	4939	4461	4461	4270	4270	3903	3903	3903	4270	4270	3903	3903	3903	
最大扭矩 Maximum Torque	T_{2a}	Nm	620	560	560	536	536	490	490	490	536	536	490	490	490	
		in.lb	5487	4956	4956	4744	4744	4337	4337	4337	4744	4744	4337	4337	4337	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.4	1.17	1.07	1.03	1	1	1	1	1	1	1	1	1	1
		in.lb	12.39	10.36	9.47	9.12	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10													
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	25													
		in.lb/arcmin	221.27													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700													
		lb _r	1506													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300													
		lb _a	742													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	603													
		in.lb	5337													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	3.25	2.74	2.71	2.71	2.62	2.62	2.62	2.57	2.57	2.57	2.57	2.57	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)													
重量 Weight	m	kg	9													
		lb _m	19.8													

SVX-B115 2-stages

		2-stages																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	310	280	280	280	280	280	280	280	268	268	245	245	245	268	268	245	245	245	245	
		in.lb	2744	2478	2478	2478	2478	2478	2478	2478	2478	2372	2372	2168	2168	2168	2372	2372	2168	2168	2168	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	930	840	840	840	840	840	840	840	804	804	735	735	735	804	804	735	735	735		
		in.lb	8231	7435	7435	7435	7435	7435	7435	7435	7116	7116	6505	6505	6505	7116	7116	6505	6505	6505		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	558	504	504	504	504	504	504	504	482.4	482.4	441	441	441	482.4	482.4	441	441	441		
		in.lb	4939	4461	4461	4461	4461	4461	4461	4461	4461	4270	4270	3903	3903	3903	4270	4270	3903	3903		
最大扭矩 Maximum Torque	T_{2a}	Nm	620	560	560	560	560	560	560	560	536	536	490	490	490	536	536	490	490	490		
		in.lb	5487	4956	4956	4956	4956	4956	4956	4956	4956	4744	4744	4337	4337	4337	4744	4744	4337	4337		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.05	1.05	1.05	1.01	0.98	0.98	0.98	0.98	1.01	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98		
		in.lb	9.29	9.29	9.29	8.94	8.67	8.67	8.67	8.67	8.94	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67		
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤12																			
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	10																			
		in.lb/arcmin	88.51																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700																			
		lb _r	1506																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300																			
		lb _a	742																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	400																			
		in.lb	3540																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	1.5	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68																			
滿載效率 Efficiency at Full loading	η	%	92																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																			
重量 Weight	m	kg	13																			
		lb _m	28.6																			

SVX-B142 1-Stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	570	540	540	500	500	450	450	450	500	500	450	450	450	450	
		in.lb	5045	4779	4779	4425	4425	3983	3983	3983	4425	4425	3983	3983	3983	3983	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	1710	1620	1620	1500	1500	1350	1350	1350	1500	1500	1350	1350	1350	1350	
		in.lb	15135	14338	14338	13276	13276	11948	11948	11948	13276	13276	11948	11948	11948	11948	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1026	972	972	900	900	810	810	810	900	900	810	810	810	810	
		in.lb	9081	8603	8603	7966	7966	7169	7169	7169	7966	7966	7169	7169	7169	7169	
最大扭矩 Maximum Torque	T_{2a}	Nm	1140	1080	1080	1000	1000	900	900	900	1000	1000	900	900	900	900	
		in.lb	10090	9559	9559	8851	8851	7966	7966	7966	8851	8851	7966	7966	7966	7966	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.77	2.67	2.52	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	
		in.lb	24.52	23.63	22.30	21.42	21.42	21.42	21.42	21.42	21.42	21.42	21.42	21.42	21.42	21.42	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10														
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	50														
		in.lb/arcmin	442.53														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600														
		lb _r	2158														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800														
		lb _a	1079														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1275														
		in.lb	11285														
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.31	7.54	7.42	7.42	7.25	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)														
重量 Weight	m	kg	26														
		lb _m	57.2														

SVX-B142 2-stages

		2-stages																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	570	540	540	540	540	540	540	540	500	500	450	450	450	500	500	450	450	450	450	
		in.lb	5045	4779	4779	4779	4779	4779	4779	4779	4779	4425	4425	3983	3983	3983	4425	4425	3983	3983	3983	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	1710	1620	1620	1620	1620	1620	1620	1620	1500	1500	1350	1350	1350	1500	1500	1350	1350	1350	1350	
		in.lb	15135	14338	14338	14338	14338	14338	14338	14338	14338	13276	13276	11948	11948	11948	13276	13276	11948	11948	11948	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1026	972	972	972	972	972	972	972	900	900	810	810	810	900	900	810	810	810	810	
		in.lb	9081	8603	8603	8603	8603	8603	8603	8603	8603	7966	7966	7169	7169	7169	7966	7966	7169	7169	7169	
最大扭矩 Maximum Torque	T_{2a}	Nm	1140	1080	1080	1080	1080	1080	1080	1080	1000	1000	900	900	900	1000	1000	900	900	900	900	
		in.lb	10090	9559	9559	9559	9559	9559	9559	9559	9559	8851	8851	7966	7966	7966	8851	8851	7966	7966	7966	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
		in.lb	22.13	22.13	22.13	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	21.40	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤12																			
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	28.7																			
		in.lb/arcmin	254.02																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600																			
		lb _r	2158																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800																			
		lb _a	1079																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	850																			
		in.lb	7523																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	7.47	6.65	5.81	5.81	5.36	4.08	5.36	4.08	7.4	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.3	7.3		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70																			
滿載效率 Efficiency at Full loading	η	%	92																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																			
重量 Weight	m	kg	31																			
		lb _m	68.2																			

SVX-B180 1-Stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	1100	1085	1085	990	990	940	940	940	990	990	940	940	940	940
		in.lb	9736	9603	9603	8762	8762	8320	8320	8320	8762	8762	8320	8320	8320	8320
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	3300	3255	3255	2970	2970	2820	2820	2820	2970	2970	2820	2820	2820	2820
		in.lb	29207	28809	28809	26287	26287	24959	24959	24959	26287	26287	24959	24959	24959	24959
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1980	1953	1953	1782	1782	1692	1692	1692	1782	1782	1692	1692	1692	1692
		in.lb	17524	17285	17285	15772	15772	14975	14975	14975	15772	15772	14975	14975	14975	14975
最大扭矩 Maximum Torque	T_{2a}	Nm	2200	2170	2170	1980	1980	1880	1880	1880	1980	1980	1880	1880	1880	1880
		in.lb	19472	19206	19206	17524	17524	16639	16639	16639	17524	17524	16639	16639	16639	16639
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.92	3.72	3.67	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52
		in.lb	34.69	32.92	32.48	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10													
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	140													
		in.lb/arcmin	1239.10													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000													
		lb _r	3147													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000													
		lb _a	1574													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2013													
		in.lb	17816													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.98	23.67	22.75	22.75	22.48	22.59	22.59	22.55	22.55	22.55	22.55	22.55	22.55	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mouting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)													
重量 Weight	m	kg	41													
		lb _m	90.2													

SVX-B180 2-stages

		2-stages																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	1100	1085	1085	1085	1085	1085	1085	1085	990	990	940	940	940	990	990	940	940	940	940	
		in.lb	9736	9603	9603	9603	9603	9603	9603	9603	8762	8762	8320	8320	8320	8762	8762	8320	8320	8320	8320	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	3300	3255	3255	3255	3255	3255	3255	3255	2970	2970	2820	2820	2820	2970	2970	2820	2820	2820	2820	
		in.lb	29207	28809	28809	28809	28809	28809	28809	28809	26287	26287	24959	24959	24959	26287	26287	24959	24959	24959	24959	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1980	1953	1953	1953	1953	1953	1953	1953	1782	1782	1692	1692	1692	1782	1782	1692	1692	1692	1692	
		in.lb	17524	17285	17285	17285	17285	17285	17285	17285	15772	15772	14975	14975	14975	15772	15772	14975	14975	14975	14975	
最大扭矩 Maximum Torque	T_{2a}	Nm	2200	2170	2170	2170	2170	2170	2170	2170	1980	1980	1880	1880	1880	1980	1980	1880	1880	1880	1880	
		in.lb	19472	19206	19206	19206	19206	19206	19206	19206	17524	17524	16639	16639	16639	17524	17524	16639	16639	16639	16639	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
		in.lb	22.13	22.13	22.13	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤12																			
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	120																			
		in.lb/arcmin	1062.08																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000																			
		lb _r	3147																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000																			
		lb _a	1574																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1280																			
		in.lb	11329																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	7.54	7.54	7.54	7.14	7.14	7.14	7.14	7.14	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72																			
滿載效率 Efficiency at Full loading	η	%	95																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mouting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																			
重量 Weight	m	kg	49																			
		lb _m	107.8																			

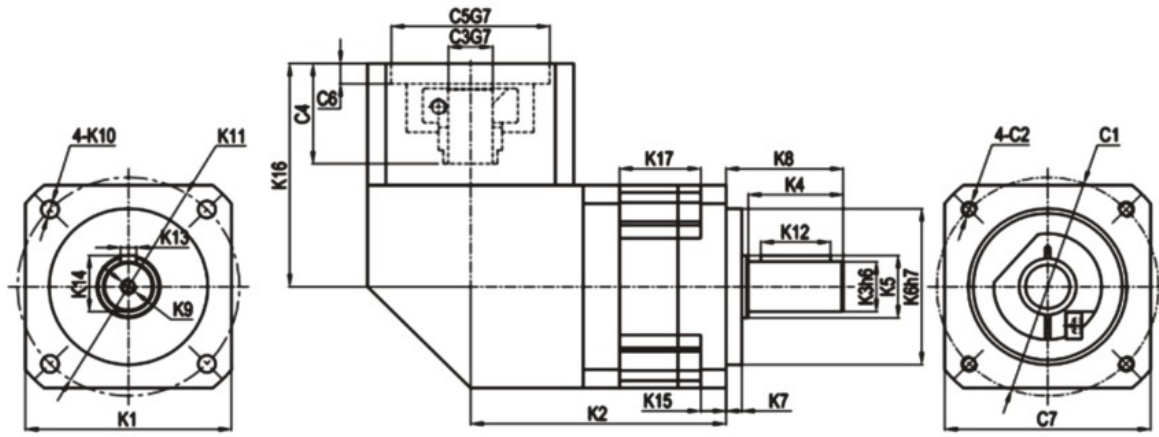
SVX-B220 1-Stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	1800	1785	1785	1695	1660	1620	1580	1580	1695	1660	1620	1580	1580		
		in.lb	15931	15798	15798	15002	14692	14338	13984	13984	15002	14692	14338	13984	13984		
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	5400	5355	5355	5085	4980	4860	4740	4740	5085	4980	4860	4740	4740		
		in.lb	47794	47395	47395	45006	44076	43014	41952	41952	45006	44076	43014	41952	41952		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3240	3213	3213	3051	2988	2916	2844	2844	3051	2988	2916	2844	2844		
		in.lb	28676	28437	28437	27003	26446	25809	25171	25171	27003	26446	25809	25171	25171		
最大扭矩 Maximum Torque	T_{2a}	Nm	3600	3570	3570	3390	3320	3240	3160	3160	3390	3320	3240	3160	3160		
		in.lb	31863	31597	31597	30004	29384	28676	27968	27968	30004	29384	28676	27968	27968		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	5.62	5.42	5.27	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	
		in.lb	49.74	47.97	46.64	45.05	45.05	45.05	45.05	45.05	45.05	45.05	45.05	45.05	45.05	45.05	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤10														
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	220														
		in.lb/arcmin	1947.15														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000														
		lb _r	3597														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000														
		lb _a	1798														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2676														
		in.lb	23684														
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	69.61	54.37	53.27	53.27	50.84	50.84	50.84	50.56	50.56	50.56	50.56	50.56	50.56		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 75														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)														
重量 Weight	m	kg	68														
		lb _m	149.6														

SVX-B220 2-stages

		2-stages																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	1800	1785	1785	1785	1785	1785	1785	1785	1695	1660	1620	1580	1580	1695	1660	1620	1580	1580		
		in.lb	15931	15798	15798	15798	15798	15798	15798	15798	15798	15002	14692	14338	13984	13984	15002	14692	14338	13984	13984	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	5400	5355	5355	5355	5355	5355	5355	5355	5085	4980	4860	4740	4740	5085	4980	4860	4740	4740		
		in.lb	47794	47395	47395	47395	47395	47395	47395	47395	47395	45006	44076	43014	41952	41952	45006	44076	43014	41952	41952	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3240	3213	3213	3213	3213	3213	3213	3213	3051	2988	2916	2844	2844	3051	2988	2916	2844	2844		
		in.lb	28676	28437	28437	28437	28437	28437	28437	28437	28437	27003	26446	25809	25171	25171	27003	26446	25809	25171	25171	
最大扭矩 Maximum Torque	T_{2a}	Nm	3600	3570	3570	3570	3570	3570	3570	3570	3390	3320	3240	3160	3160	3390	3320	3240	3160	3160		
		in.lb	31863	31597	31597	31597	31597	31597	31597	31597	31597	30004	29384	28676	27968	27968	30004	29384	28676	27968	27968	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.57	3.57	3.57	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.7	3.7	3.7	3.7	3.7		
		in.lb	31.60	31.60	31.60	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	31.15	32.75	32.75	32.75	32.75	32.75	
最大扭轉背隙 Maximum Torsional Backlash	j_i	arcmin	≤12																			
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	200																			
		in.lb/arcmin	1770.14																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000																			
		lb _r	3597																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000																			
		lb _a	1798																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2350																			
		in.lb	20799																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.92	22.75	22.75	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 75																			
滿載效率 Efficiency at Full loading	η	%	92																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_h	h	30,000 hours (S5 Cycle Operation)																			
重量 Weight	m	kg	78																			
		lb _m	171.6																			

SVX-B Dimensions



Model	SVX-B065		SVX-B085		SVX-B115		SVX-B142		SVX-B180		SVX-B220	
Stage	1	2	1	2	1	2	1	2	1	2	1	2
K1	65		85		110		142		180		220	
	2.559		3.346		4.331		5.591		7.087		8.661	
K2	93	116.7	105.2	136.5	154	195.8	187	248	204.5	251.5	220	285.5
	3.661	4.594	4.142	5.374	6.063	7.709	7.362	9.764	8.051	9.902	8.661	11.240
K3	16	22	22	32	32	40	40	55	55	75	75	75
	0.630	0.866	0.866	1.260	1.260	1.575	1.575	2.165	2.165	2.953	2.953	2.953
K4	30	36	36	50	50	80	80	82	82	105	105	105
	1.181	1.417	1.417	1.969	1.969	3.150	3.150	3.228	3.228	4.134	4.134	4.134
K5	20	25	25	40	40	55	55	60	60	85	85	85
	0.787	0.984	0.984	1.575	1.575	2.165	2.165	2.362	2.362	3.346	3.346	3.346
K6	50	80	80	110	110	130	130	160	160	180	180	180
	1.969	3.150	3.150	4.331	4.331	5.118	5.118	6.299	6.299	7.087	7.087	7.087
K7	5	10	10	12	12	15	15	20	20	30	30	30
	0.197	0.394	0.394	0.472	0.472	0.591	0.591	0.787	0.787	1.181	1.181	1.181
K8	37	48	48	65	65	97	97	105	105	138	138	138
	1.457	1.890	1.890	2.559	2.559	3.819	3.819	4.134	4.134	5.433	5.433	5.433
K9	M5X12	M6X16	M6X16	M10X22	M10X22	M12X26	M12X26	M20X40	M20X40	M20X40	M20X40	M20X40
K10	5.5	6.5	6.5	9	9	11	11	13	13	17	17	17
	0.217	0.256	0.256	0.354	0.354	0.433	0.433	0.512	0.512	0.669	0.669	0.669
K11	70	100	100	130	130	165	165	215	215	250	250	250
	2.756	3.937	3.937	5.118	5.118	6.496	6.496	8.465	8.465	9.843	9.843	9.843
K12	22	28	28	40	40	70	70	70	70	90	90	90
	0.866	1.102	1.102	1.575	1.575	2.756	2.756	2.756	2.756	3.543	3.543	3.543
K13	5	6	6	10	10	12	12	16	16	20	20	20
	0.197	0.236	0.236	0.394	0.394	0.472	0.472	0.630	0.630	0.787	0.787	0.787
K14	18	24.5	24.5	35	35	43	43	59	59	79.5	79.5	79.5
	0.709	0.965	0.965	1.378	1.378	1.693	1.693	2.323	2.323	3.130	3.130	3.130
K15	8	10	10	14	14	15	15	20	20	20	20	20
	0.315	0.394	0.394	0.551	0.551	0.591	0.591	0.787	0.787	0.787	0.787	0.787
K16	83	94	94	140	140	169	169	204	169	210	204	204
	3.248	3.701	3.701	5.512	5.512	6.654	6.654	8.031	6.654	8.268	8.031	8.031
K17	37.6	61.3	39.7	66	60	101.8	80	141	69	81	81	81
	1.480	2.413	1.563	2.598	2.362	4.008	3.150	5.551	2.7	3.2	3.2	3.2
C1	70	90	90	145	145	200	200	215	200	235	215	215
	2.756	3.543	3.543	5.709	5.709	7.874	7.874	8.465	7.874	9.252	8.465	8.465
C2	M5X12	M6X15	M6X15	M8X20	M8X20	M12X12	M12X12	M12X25	M12X25	M12X25	M12X25	M12X25
C3	14	19	19	24	24	35	35	42	35	42	35	35
	0.551	0.748	0.748	0.945	0.945	1.378	1.378	1.654	1.378	1.654	1.378	1.378
C4	32.1	41.3	41.3	61.3	61.3	81.3	81.3	82.5	81.3	116	82.5	82.5
	1.264	1.626	1.626	2.413	2.413	3.201	3.201	3.248	3.201	4.567	3.248	3.248
C5	50	70	70	110	110	114.3	114.3	180	114.3	200	180	180
	1.969	2.756	2.756	4.331	4.331	4.500	4.500	7.087	4.500	7.874	7.087	7.087
C6	6.5	6.5	6.5	8	8	6.5	6.5	8	8	8	8	8
	0.256	0.256	0.256	0.315	0.315	0.256	0.256	0.315	0.315	0.315	0.315	0.315
C7	65	85	85	120	120	175	175	190	175	220	190	190
	2.559	3.346	3.346	4.724	4.724	6.890	6.890	7.480	6.890	8.661	7.480	7.480

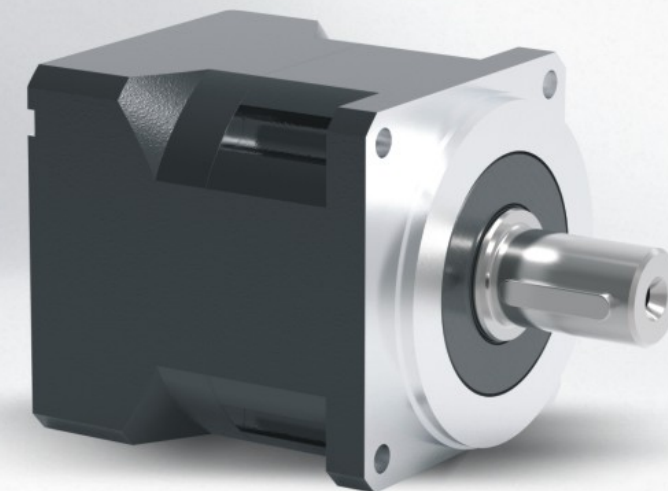
減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

KPX-B

勁強·精密·可靠

▶ 伺服行星減速機

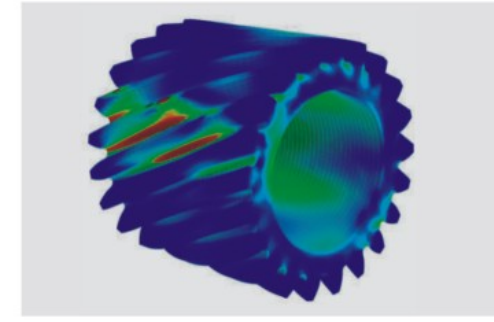
精密型減速機





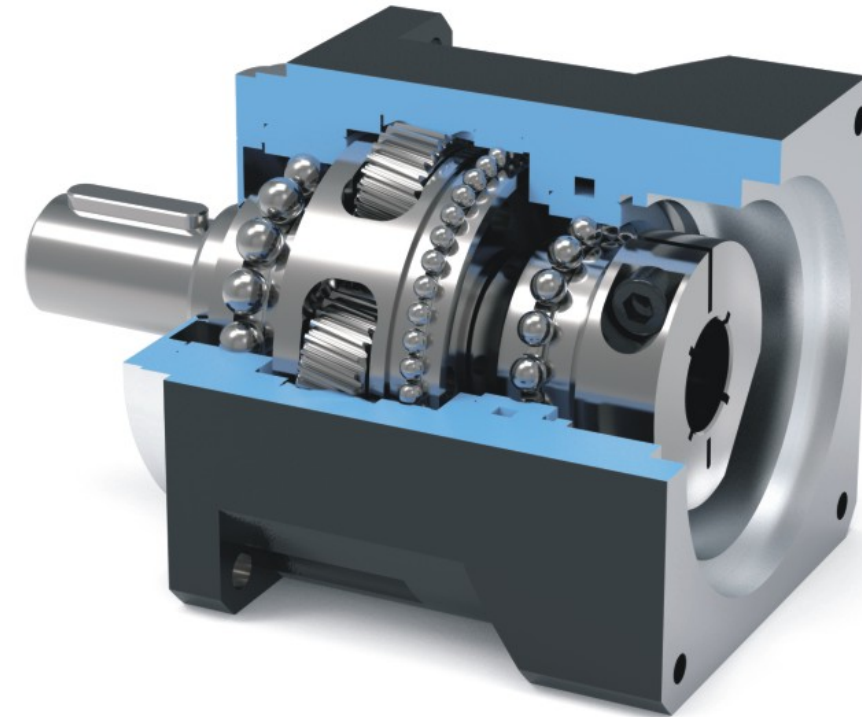
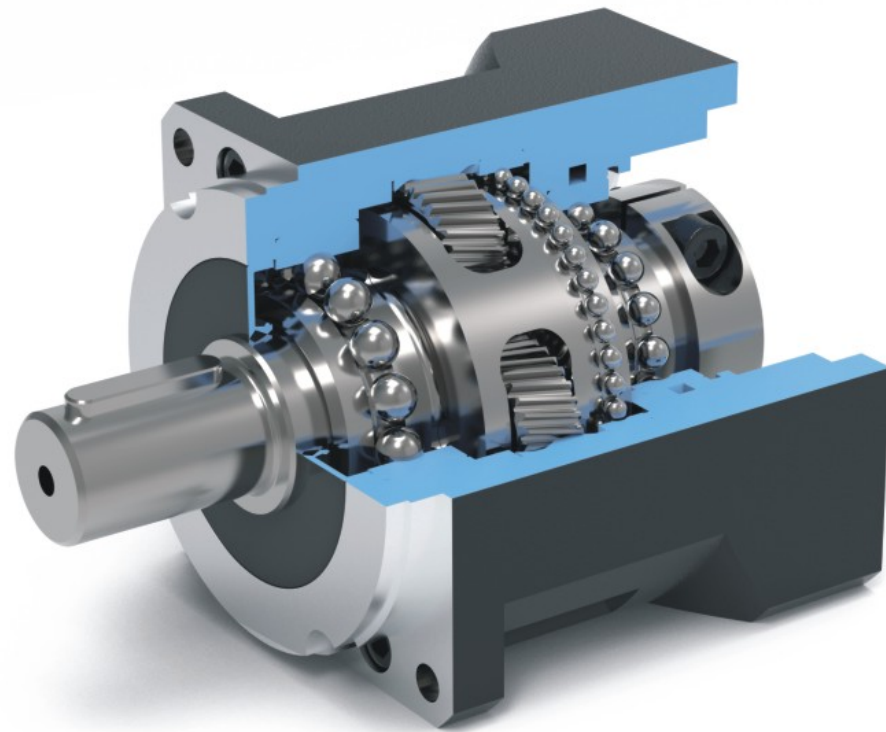
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

KPX-B045 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	20	21	21	20	19	18	14	14	
		in.lb	177	186	186	177	168	159	124	124	
故障停止扭矩 Emergency Stop Torque	$T_{2\text{stop}}$	Nm	60	63	63	60	57	54	42	42	
		in.lb	531	558	558	531	504	478	372	372	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	36	37.8	37.8	36	34.2	32.4	25.2	25.2	
		in.lb	319	335	335	319	303	287	223	223	
最大扭矩 Maximum Torque	T_{2a}	Nm	40	42	42	40	38	36	28	28	
		in.lb	354	372	372	354	336	319	248	248	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000								
最大輸入轉速 Maximum Input Speed	$n_{1\text{Max}}$	rpm	8000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.11	0.1	0.09	0.09	0.08	0.08	0.08	0.08	
		in.lb	0.97	0.89	0.80	0.80	0.71	0.71	0.71	0.71	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤ 5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤ 3								
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	3								
		in.lb/arcmin	26.55								
最大徑向負載 Maximum Radial Load	$F_{2\text{Max}}$	N	770								
		lb _r	173								
最大軸向負載 Maximum Axial Load	$F_{2\text{OMax}}$	N	380								
		lb _a	85								
最大傾覆力矩 Max. Tilting Moment	$M_{2\text{KMax}}$	Nm	19								
		in.lb	168								
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.031	0.022	0.019	0.017	0.017	0.017	0.017	0.017	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 56								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	0.6								
		lb _m	1.3								

KPX-B045 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	20	21	21	21	21	21	21	21	20	19	18	14	14			
		in.lb	177	186	186	186	186	186	186	186	177	168	159	124	124			
故障停止扭矩 Emergency Stop Torque	$T_{2\text{stop}}$	Nm	60	63	63	63	63	63	63	63	60	57	54	42	42			
		in.lb	531	558	558	558	558	558	558	558	531	504	478	372	372			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	36	37.8	37.8	37.8	37.8	37.8	37.8	37.8	36	34.2	32.4	25.2	25.2			
		in.lb	319	335	335	335	335	335	335	335	319	303	287	223	223			
最大扭矩 Maximum Torque	T_{2a}	Nm	40	42	42	42	42	42	42	42	40	38	36	28	28			
		in.lb	354	372	372	372	372	372	372	372	354	336	319	248	248			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000															
最大輸入轉速 Maximum Input Speed	$n_{1\text{Max}}$	rpm	8000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.1	0.1	0.1	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08			
		in.lb	0.89	0.89	0.89	0.80	0.80	0.80	0.80	0.80	0.71	0.71	0.71	0.71	0.71			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤ 7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤ 5															
扭轉剛性 Torsional Rigidity	C_{21}	Nm/arcmin	3															
		in.lb/arcmin	26.55															
最大徑向負載 Maximum Radial Load	$F_{2\text{Max}}$	N	770															
		lb _r	173															
最大軸向負載 Maximum Axial Load	$F_{2\text{OMax}}$	N	380															
		lb _a	85															
最大傾覆力矩 Max. Tilting Moment	$M_{2\text{KMax}}$	Nm	19															
		in.lb	168															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.027	0.019	0.017	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 56															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	0.9															
		lb _m	2															

KPX-B065 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	56	52	52	50	50	45	42	42	
		in.lb	496	460	460	443	443	398	372	372	
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	168	156	156	150	150	135	126	126	
		in.lb	1487	1381	1381	1328	1328	1195	1115	1115	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	100.8	93.6	93.6	90	90	81	75.6	75.6	
		in.lb	892	828	828	797	797	717	669	669	
最大扭矩 Maximum Torque	T_{2a}	Nm	112	104	104	100	100	90	84	84	
		in.lb	991	920	920	885	885	797	743	743	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.24	0.2	0.17	0.15	0.15	0.15	0.15	0.15	
		in.lb	2.12	1.77	1.50	1.33	1.33	1.33	1.33	1.33	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	7								
		in.lb/arcmin	61.95								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500								
		lb _r	337								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760								
		lb _a	171								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	90								
		in.lb	797								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.16	0.14	0.13	0.13	0.13	0.13	0.13	0.13	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	1.4								
		lb _m	3.1								

KPX-B065 2-stage

		2-stage																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	56	52	52	52	52	52	52	52	52	50	50	45	42	42			
		in.lb	496	460	460	460	460	460	460	460	460	443	443	398	372	372			
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	168	156	156	156	156	156	156	156	156	150	150	135	126	126			
		in.lb	1487	1381	1381	1381	1381	1381	1381	1381	1381	1328	1328	1195	1115	1115			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	100.8	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	90	90	81	75.6	75.6			
		in.lb	892	828	828	828	828	828	828	828	828	797	797	717	669	669			
最大扭矩 Maximum Torque	T_{2a}	Nm	112	104	104	104	104	104	104	104	104	100	100	90	84	84			
		in.lb	991	920	920	920	920	920	920	920	920	885	885	797	743	743			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.17	0.17	0.17	0.15	0.2	0.15	0.15	0.15	0.17	0.15	0.15	0.15	0.15	0.15			
		in.lb	1.50	1.50	1.50	1.33	1.77	1.33	1.33	1.33	1.50	1.33	1.33	1.33	1.33	1.33			
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7																
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5																
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3																
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	7																
		in.lb/arcmin	61.95																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500																
		lb _r	337																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760																
		lb _a	171																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	90																
		in.lb	797																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.124	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																
重量 Weight	m	kg	1.60																
		lb _m	3.5																

KPX-B085 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	160	145	155	145	145	142	142	142	
		in.lb	1416	1283	1372	1283	1283	1257	1257	1257	
故障停止扭矩 Emergency Stop Torque	T_{2st}	Nm	480	435	465	435	435	426	426	426	
		in.lb	4248	3850	4116	3850	3850	3770	3770	3770	
最大加速扭矩 Maximum Acceleration Torque	T_{2a}	Nm	288	261	279	261	261	255.6	255.6	255.6	
		in.lb	2549	2310	2469	2310	2310	2262	2262	2262	
最大扭矩 Maximum Torque	T_{2a}	Nm	320	290	310	290	290	284	284	284	
		in.lb	2832	2567	2744	2567	2567	2514	2514	2514	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.38	0.36	0.31	0.29	0.25	0.25	0.25	0.25	
		in.lb	3.36	3.19	2.74	2.57	2.21	2.21	2.21	2.21	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤ 5								
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤ 3								
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤ 1								
扭轉剛性 Torsional Rigidity	C_{D1}	Nm/arcmin	14								
		in.lb/arcmin	123.91								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200								
		lb _r	719								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600								
		lb _a	360								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	214								
		in.lb	1894.05								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	3.3								
		lb _m	7.3								

KPX-B085 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100		
額定輸出扭矩 Nominal Output Torque		Nm	160	145	155	155	155	155	155	155	155	145	145	142	142	142		
		in.lb	1416	1283	1372	1372	1372	1372	1372	1372	1372	1372	1283	1283	1257	1257		
故障停止扭矩 Emergency Stop Torque	T_{2st}	Nm	480	435	465	465	465	465	465	465	465	435	435	426	426	426		
		in.lb	4248	3850	4116	4116	4116	4116	4116	4116	4116	4116	3850	3850	3770	3770		
最大加速扭矩 Maximum Acceleration Torque	T_{2a}	Nm	288	261	279	279	279	279	279	279	279	261	261	255.6	255.6	255.6		
		in.lb	2549	2310	2469	2469	2469	2469	2469	2469	2469	2469	2310	2310	2262	2262		
最大扭矩 Maximum Torque	T_{2a}	Nm	320	290	310	310	310	310	310	310	310	290	290	284	284	284		
		in.lb	2832	2567	2744	2744	2744	2744	2744	2744	2744	2744	2567	2567	2514	2514		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.31	0.31	0.31	0.31	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25		
		in.lb	2.74	2.74	2.74	2.74	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21		
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤ 7															
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤ 5															
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤ 3															
扭轉剛性 Torsional Rigidity	C_{D1}	Nm/arcmin	14															
		in.lb/arcmin	123.91															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200															
		lb _r	719															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600															
		lb _a	360															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	214															
		in.lb	1894															
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.44	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	4.5															
		lb _m	9.9															

KPX-B115 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	335	300	320	300	300	295	295	295	
		in.lb	2965	2655	2832	2655	2655	2611	2611	2611	
故障停止扭矩 Emergency Stop Torque	T_{2NEC}	Nm	1005	900	960	900	900	885	885	885	
		in.lb	8895	7966	8497	7966	7966	7833	7833	7833	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	603	540	576	540	540	531	531	531	
		in.lb	5337	4779	5098	4779	4779	4700	4700	4700	
最大扭矩 Maximum Torque	T_{2a}	Nm	670	600	640	600	600	590	590	590	
		in.lb	5930	5310	5664	5310	5310	5222	5222	5222	
額定輸入轉速 Permitted Average Input Speed	n_{IN}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{IMax}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1	0.95	0.85	0.81	0.78	0.78	0.78	0.78	
		in.lb	8.85	8.41	7.52	7.17	6.90	6.90	6.90	6.90	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	26								
		in.lb/arcmin	230.12								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700								
		lb _r	1506								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300								
		lb _a	742								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	603								
		in.lb	5337								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	3.25	2.74	2.71	2.62	2.62	2.62	2.62	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	5.5								
		lb _m	12.1								

KPX-B115 2-stage

		2-stage																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	335	300	320	320	320	320	320	320	320	300	300	295	295	295			
		in.lb	2965	2655	2832	2832	2832	2832	2832	2832	2832	2655	2655	2611	2611	2611			
故障停止扭矩 Emergency Stop Torque	T_{2NEC}	Nm	1005	900	960	960	960	960	960	960	960	900	900	885	885	885			
		in.lb	8895	7966	8497	8497	8497	8497	8497	8497	8497	7966	7966	7833	7833	7833			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	603	540	576	576	576	576	576	576	576	540	540	531	531	531			
		in.lb	5337	4779	5098	5098	5098	5098	5098	5098	5098	4779	4779	4700	4700	4700			
最大扭矩 Maximum Torque	T_{2a}	Nm	670	600	640	640	640	640	640	640	640	600	600	590	590	590			
		in.lb	5930	5310	5664	5664	5664	5664	5664	5664	5664	5310	5310	5222	5222	5222			
額定輸入轉速 Permitted Average Input Speed	n_{IN}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{IMax}	rpm	6000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.85	0.85	0.85	0.81	0.78	0.78	0.78	0.78	0.78	0.81	0.78	0.78	0.78	0.78			
		in.lb	7.52	7.52	7.52	7.17	6.90	6.90	6.90	6.90	6.90	7.17	6.90	6.90	6.90	6.90			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7																
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5																
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3																
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	26																
		in.lb/arcmin	230.12																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700																
		lb _r	1506																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300																
		lb _a	742																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	603																
		in.lb	5337																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	2.58	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																
重量 Weight	m	kg	8																
		lb _m	17.6																

KPX-B142 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	630	550	620	600	575	550	510	510	
		in.lb	5576	4868	5487	5310	5089	4868	4514	4514	
故障停止扭矩 Emergency Stop Torque	T_{2NEI}	Nm	1890	1650	1860	1800	1725	1650	1530	1530	
		in.lb	16728	14604	16462	15931	15267	14604	13542	13542	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1134	990	1116	1080	1035	990	918	918	
		in.lb	10037	8762	9877	9559	9160	8762	8125	8125	
最大扭矩 Maximum Torque	T_{2a}	Nm	1260	1100	1240	1200	1150	1100	1020	1020	
		in.lb	11152	9736	10975	10621	10178	9736	9028	9028	
額定輸入轉速 Permitted Average Input Speed	n_{IN}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{IMax}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.55	2.45	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	22.57	21.68	20.36	19.47	19.47	19.47	19.47	19.47	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	52								
		in.lb/arcmin	460.24								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600								
		lb _r	2158								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800								
		lb _a	1079								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1275								
		in.lb	11285								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.31	7.54	7.42	7.25	7.25	7.14	7.14	7.14	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	20								
		lb _m	44.1								

KPX-B142 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100		
額定輸出扭矩 Nominal Output Torque		Nm	630	550	620	620	620	620	620	620	620	600	575	550	510	510		
		in.lb	5576	4868	5487	5487	5487	5487	5487	5487	5487	5310	5089	4868	4514	4514		
故障停止扭矩 Emergency Stop Torque	T_{2NEI}	Nm	1890	1650	1860	1860	1860	1860	1860	1860	1860	1800	1725	1650	1530	1530		
		in.lb	16728	14604	16462	16462	16462	16462	16462	16462	16462	15931	15267	14604	13542	13542		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1134	990	1116	1116	1116	1116	1116	1116	1116	1080	1035	990	918	918		
		in.lb	10037	8762	9877	9877	9877	9877	9877	9877	9877	9559	9160	8762	8125	8125		
最大扭矩 Maximum Torque	T_{2a}	Nm	1260	1100	1240	1240	1240	1240	1240	1240	1240	1200	1150	1100	1020	1020		
		in.lb	11152	9736	10975	10975	10975	10975	10975	10975	10975	10621	10178	9736	9028	9028		
額定輸入轉速 Permitted Average Input Speed	n_{IN}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{IMax}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		
		in.lb	21.24	21.24	21.24	20.36	20.36	20.36	20.36	20.36	20.36	20.36	20.36	20.36	20.36	20.36		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	52															
		in.lb/arcmin	460.24															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600															
		lb _r	2158															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800															
		lb _a	1079															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1275															
		in.lb	11285															
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.35	6.65	5.81	6.34	6.34	5.36	4.08	5.36	4.08	7.4	7.4	7.4	7.4	7.4		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	25															
		lb _m	55.1															

KPX-B180 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	1220	1170	1170	1100	1100	1060	1060	1060	
		in.lb	10798	10355	10355	9736	9736	9382	9382	9382	
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	3660	3510	3510	3300	3300	3180	3180	3180	
		in.lb	32394	31066	31066	29207	29207	28145	28145	28145	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2196	2106	2106	1980	1980	1908	1908	1908	
		in.lb	19436	18640	18640	17524	17524	16887	16887	16887	
最大扭矩 Maximum Torque	T_{2a}	Nm	2440	2340	2340	2200	2200	2120	2120	2120	
		in.lb	21596	20711	20711	19472	19472	18763	18763	18763	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.5	3.3	3.15	3	3	3	3	3	
		in.lb	30.98	29.21	27.88	26.55	26.55	26.55	26.55	26.55	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	138								
		in.lb/arcmin	1221.4								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000								
		lb _r	3147								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000								
		lb _a	1574								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2013								
		in.lb	17816								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.98	23.67	22.75	22.48	22.48	22.59	22.59	22.55	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	31								
		lb _m	68.3								

KPX-B180 2-stage

		2-stage																	
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	1220	1170	1170	1170	1170	1170	1170	1170	1170	1100	1100	1060	1060	1060			
		in.lb	10798	10355	10355	10355	10355	10355	10355	10355	10355	10355	9736	9736	9382	9382			
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	3660	3510	3510	3510	3510	3510	3510	3510	3510	3300	3300	3180	3180	3180			
		in.lb	32394	31066	31066	31066	31066	31066	31066	31066	31066	29207	29207	28145	28145	28145			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2196	2106	2106	2106	2106	2106	2106	2106	2106	1980	1980	1908	1908	1908			
		in.lb	19436	18640	18640	18640	18640	18640	18640	18640	18640	17524	17524	16887	16887	16887			
最大扭矩 Maximum Torque	T_{2a}	Nm	2440	2340	2340	2340	2340	2340	2340	2340	2340	2200	2200	2120	2120	2120			
		in.lb	21596	20711	20711	20711	20711	20711	20711	20711	20711	19472	19472	18763	18763	18763			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000																
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2			
		in.lb	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47			
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7																
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5																
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3																
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	138																
		in.lb/arcmin	1221.40																
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000																
		lb _r	3147																
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000																
		lb _a	1574																
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2013																
		in.lb	17816																
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.3	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67																
滿載效率 Efficiency at Full loading	η	%	95																
工作溫度 Operating Temperature		°C	-25 to +90																
		F	-13 to +194																
潤滑方式 Lubrication			Synthetic Lubrication Grease																
安裝方式 Mounting Position			Any Directions																
防護等級 Protection Class			IP 65																
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																
重量 Weight	m	kg	39																
		lb _m	86																

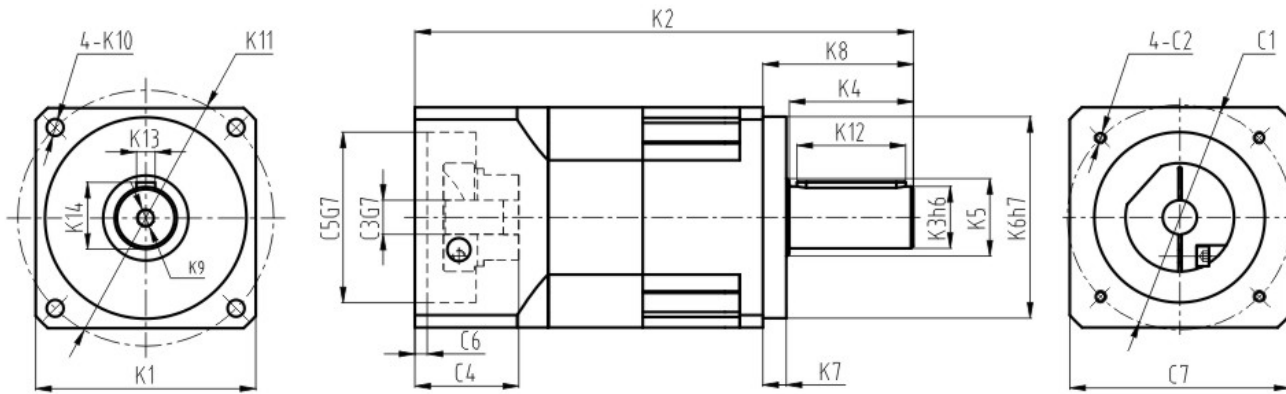
KPX-B220 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	2050	2000	2000	1900	1900	1800	1800	1800	
		in.lb	18144	17701	17701	16816	16816	15931	15931	15931	
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	6150	6000	6000	5700	5700	5400	5400	5400	
		in.lb	54432	53104	53104	50449	50449	47794	47794	47794	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3690	3600	3600	3420	3420	3240	3240	3240	
		in.lb	32659	31863	31863	30269	30269	28676	28676	28676	
最大扭矩 Maximum Torque	T_{2a}	Nm	4100	4000	4000	3800	3800	3600	3600	3600	
		in.lb	36288	35403	35403	33633	33633	31863	31863	31863	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	5.2	5	4.85	4.67	4.67	4.67	4.67	4.67	
		in.lb	46.02	44.25	42.93	41.33	41.33	41.33	41.33	41.33	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	220								
		in.lb/arcmin	1947.2								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000								
		lb _r	3597								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000								
		lb _a	1798								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2676								
		in.lb	23684								
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	69.61	54.37	53.27	50.84	50.84	50.84	50.84	50.56	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	53								
		lb _m	117								

KPX-B220 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	32	35	40	45	50	60	70	80	90	100		
額定輸出扭矩 Nominal Output Torque		Nm	2050	2000	2000	2000	2000	2000	2000	2000	2000	1900	1900	1800	1800	1800		
		in.lb	18144	17701	17701	17701	17701	17701	17701	17701	17701	16816	16816	15931	15931	15931		
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	6150	6000	6000	6000	6000	6000	6000	6000	6000	5700	5700	5400	5400	5400		
		in.lb	54432	53104	53104	53104	53104	53104	53104	53104	53104	50449	50449	47794	47794	47794		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3690	3600	3600	3600	3600	3600	3600	3600	3600	3420	3420	3240	3240	3240		
		in.lb	32659	31863	31863	31863	31863	31863	31863	31863	31863	30269	30269	28676	28676	28676		
最大扭矩 Maximum Torque	T_{2a}	Nm	4100	4000	4000	4000	4000	4000	4000	4000	4000	3800	3800	3600	3600	3600		
		in.lb	36288	35403	35403	35403	35403	35403	35403	35403	35403	33633	33633	31863	31863	31863		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.15	3.15	3.15	3	3	3	3	3	3	3	3	3	3	3		
		in.lb	27.88	27.88	27.88	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55		
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	220															
		in.lb/arcmin	1947.15															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000															
		lb _r	3597															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000															
		lb _a	1798															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2676															
		in.lb	23684															
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.92	22.75	22.75	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	66															
		lb _m	145.5															

KPX-B Dimensions



Model	KPX-B045		KPX-B065		KPX-B085		KPX-B115		KPX-B142		KPX-B180		KPX-B220	
Stage	1	2	1	2	1	2	1	2	1	2	1	2	1	2
K1	45	65	85	110	142	180	220	1.772	2.559	3.346	4.331	5.591	7.087	8.661
K2	88.5	103.5	115	138.7	138	169.3	198	239.8	275.5	336.5	288	348	357.5	402
K3	3.484	4.075	4.528	5.461	5.433	6.665	7.795	9.441	10.846	13.248	11.339	13.701	14.075	15.827
K4	12	16	22	32	40	55	75	0.472	0.630	0.866	1.260	1.575	2.165	2.953
K5	23	30	36	50	80	82	105	0.906	1.181	1.417	1.969	3.150	3.228	4.134
K6	15	20	30	40	50	60	85	0.591	0.787	1.181	1.575	1.969	2.362	3.346
K7	35	50	80	110	130	160	180	1.378	1.969	3.150	4.331	5.118	6.299	7.087
K8	4	5	10	12	15	20	30	0.157	0.197	0.394	0.472	0.591	0.787	1.181
K9	28	37	48	65	97	105	138	1.102	1.457	1.890	2.559	3.819	4.134	5.433
K10	M3X9	M5X12	M6X16	M10X22	M12X25	M20X40	M20X40	M4X10	5.5	6.5	9	11	13	17
K11	50	70	100	130	165	215	250	1.969	2.756	3.937	5.118	6.496	8.465	9.843
K12	16	22	28	40	70	70	90	0.630	0.866	1.102	1.575	2.756	2.756	3.543
K13	4	5	6	10	12	16	20	0.157	0.197	0.236	0.394	0.472	0.630	0.787
K14	13.5	18	24.5	35	43	59	79.5	0.531	0.709	0.965	1.378	1.693	2.323	3.130
C1	46	70	90	145	200	215	200	1.811	2.756	3.543	5.709	7.874	8.465	9.252
C2	M4X10	M5X12	M6X15	M8X20	M12X25	M12X25	M12X25	M4X10	M5X12	M6X15	M8X20	M12X25	M12X25	M12X25
C3	8	14	19	24	35	42	35	0.315	0.551	0.748	0.945	1.378	1.654	1.378
C4	26.1	32.1	41.6	61.3	82	82.5	115.5	1.028	1.264	1.638	2.413	3.228	3.248	4.547
C5	30	50	70	110	114.3	180	114.3	1.181	1.969	2.756	4.331	4.500	7.087	4.500
C6	5	6.5	6.5	8	8	8	8	0.197	0.256	0.256	0.315	0.315	0.315	0.315
C7	45	65	85	120	175	190	220	1.772	2.559	3.346	4.724	6.890	7.480	8.661

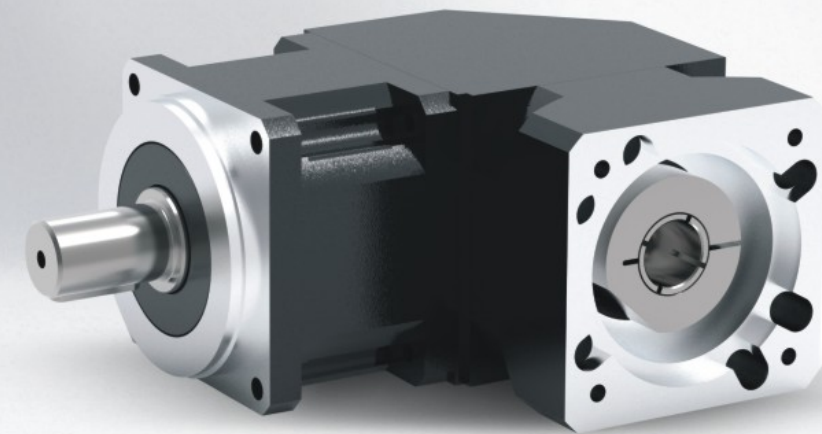
減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

KVX-B

勁強·精密·可靠

▶ 伺服行星減速機

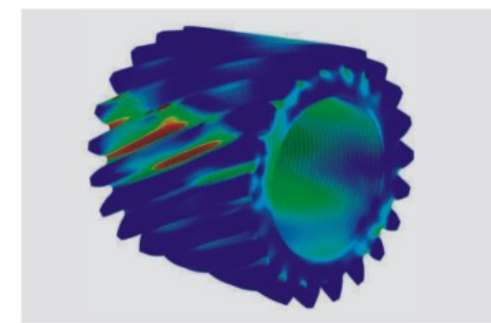
精密型減速機





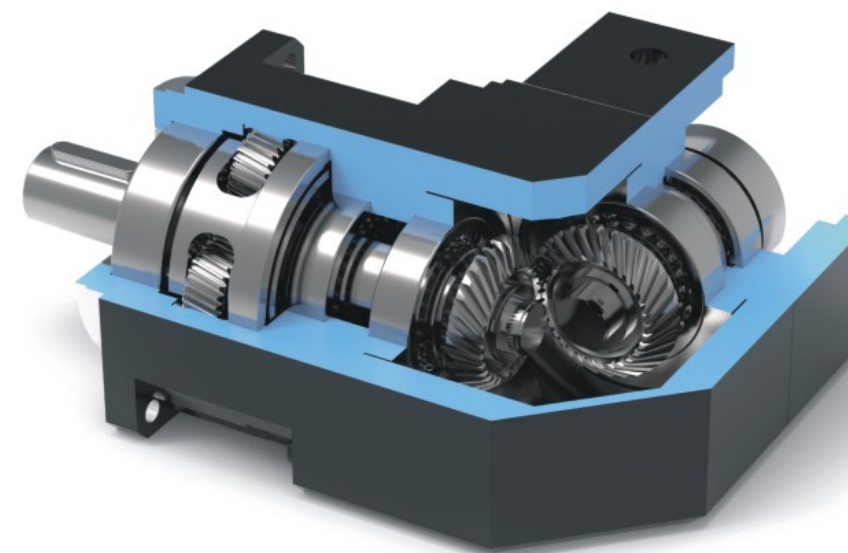
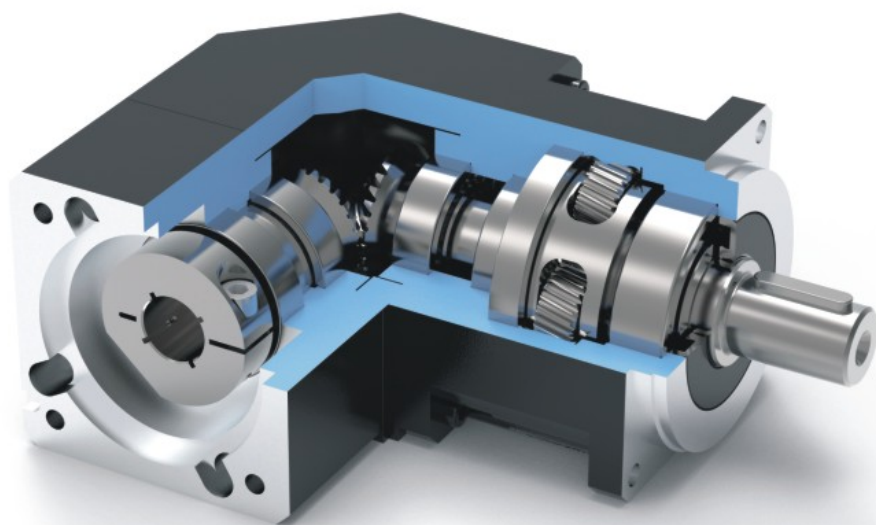
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



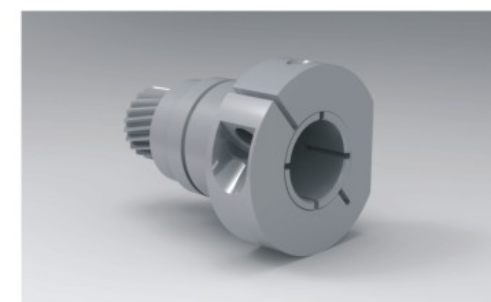
Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

KVX-B065 1-stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	56	52	52	50	50	45	42	42	50	50	45	42	42		
		in.lb	496	460	460	443	443	398	372	372	443	443	398	372	372		
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	168	156	156	150	150	135	126	126	150	150	135	126	126		
		in.lb	1487	1381	1381	1328	1328	1195	1115	1115	1328	1328	1195	1115	1115		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	100.8	93.6	93.6	90	90	81	75.6	75.6	90	90	81	75.6	75.6		
		in.lb	892	828	828	797	797	717	669	669	797	797	717	669	669		
最大扭矩 Maximum Torque	T_{2a}	Nm	112	104	104	100	100	90	84	84	100	100	90	84	84		
		in.lb	991	920	920	885	885	797	743	743	885	885	797	743	743		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.29	0.25	0.22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
		in.lb	2.57	2.21	1.95	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77		
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	7														
		in.lb/arcmin	61.95														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500														
		lb _r	337														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760														
		lb _a	171														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	90														
		in.lb	797														
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.160	0.140	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	2.2														
		lb _m	4.8														

KVX-B065 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	56	52	52	52	52	52	52	52	50	50	45	42	42	50	50	45	42	42	
		in.lb	496	460	460	460	460	460	460	460	460	443	443	398	372	372	443	443	398	372	372
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	168	156	156	156	156	156	156	156	150	150	135	126	126	150	150	135	126	126	
		in.lb	1487	1381	1381	1381	1381	1381	1381	1381	1328	1328	1195	1115	1115	1328	1328	1195	1115	1115	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	100.8	93.6	93.6	93.6	93.6	93.6	93.6	93.6	90	90	81	75.6	75.6	90	90	81	75.6	75.6	
		in.lb	892	828	828	828	828	828	828	828	797	797	717	669	669	797	797	717	669	669	
最大扭矩 Maximum Torque	T_{2a}	Nm	112	104	104	104	104	104	104	104	100	100	90	84	84	100	100	90	84	84	
		in.lb	991	920	920	920	920	920	920	920	885	885	797	743	743	885	885	797	743	743	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.17	0.17	0.17	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
		in.lb	1.50	1.50	1.50	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	7																		
		in.lb/arcmin	61.95																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	1500																		
		lb _r	337																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	760																		
		lb _a	171																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	28																		
		in.lb	248																		
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.075	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63																		
滿載效率 Efficiency at Full loading	η	%	95																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	2																		
		lb _m	5.28																		

KVX-B085 1-stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	160	145	155	145	145	142	142	142	145	145	142	142	142	142	
		in.lb	1416	1283	1372	1283	1283	1257	1257	1257	1283	1283	1257	1257	1257	1257	
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	480	435	465	435	435	426	426	426	435	435	426	426	426	426	
		in.lb	4248	3850	4116	3850	3850	3770	3770	3770	3850	3850	3770	3770	3770	3770	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	288	261	279	261	261	255.6	255.6	255.6	261	261	255.6	255.6	255.6	255.6	
		in.lb	2549	2310	2469	2310	2310	2262	2262	2262	2310	2310	2262	2262	2262	2262	
最大扭矩 Maximum Torque	T_{2a}	Nm	320	290	310	290	290	284	284	284	290	290	284	284	284	284	
		in.lb	2832	2567	2744	2567	2567	2514	2514	2514	2567	2567	2514	2514	2514	2514	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.43	0.41	0.36	0.34	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
		in.lb	3.81	3.63	3.19	3.01	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	14														
		in.lb/arcmin	123.91														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200														
		lb _r	719														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600														
		lb _a	360														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	214														
		in.lb	1894														
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	0.44	0.44	0.44	0.44	0.44		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	5.3														
		lb _m	11.7														

KVX-B085 2-stage

		2-stage																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	160	145	155	155	155	155	155	155	155	145	145	142	142	142	145	145	142	142	142	
		in.lb	1416	1283	1372	1372	1372	1372	1372	1372	1372	1283	1283	1257	1257	1257	1283	1283	1257	1257	1257	
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	480	435	465	465	465	465	465	465	465	435	435	426	426	426	435	435	426	426	426	
		in.lb	4248	3850	4116	4116	4116	4116	4116	4116	4116	3850	3850	3770	3770	3770	3850	3850	3770	3770	3770	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	288	261	279	279	279	279	279	279	279	261	261	255.6	255.6	255.6	261	261	255.6	255.6	255.6	
		in.lb	2549	2310	2469	2469	2469	2469	2469	2469	2469	2310	2310	2262	2262	2262	2310	2310	2262	2262	2262	
最大扭矩 Maximum Torque	T_{2a}	Nm	320	290	310	310	310	310	310	310	310	290	290	284	284	284	290	290	284	284	284	
		in.lb	2832	2567	2744	2744	2744	2744	2744	2744	2744	2567	2567	2514	2514	2514	2567	2567	2514	2514	2514	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.31	0.31	0.31	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.25	2.25	3.25	4.25	5.25	
		in.lb	2.74	2.74	2.74	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	11.06	19.91	28.76	37.62	46.47	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤9																			
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤7																			
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤5																			
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	14																			
		in.lb/arcmin	123.91																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	3200																			
		lb _r	719																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	1600																			
		lb _a	360																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	142.4																			
		in.lb	1260																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	0.44	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.44	0.39	0.44	0.39	0.39	0.44	0.39	0.44		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65																			
滿載效率 Efficiency at Full loading	η	%	95																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																			
重量 Weight	m	kg	6																			
		lb _m	14.3																			

KVX-B115 1-stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	335	300	320	320	300	295	295	295	320	300	295	295	295	
		in.lb	2965	2655	2832	2832	2655	2611	2611	2611	2832	2655	2611	2611	2611	2611
故障停止扭矩 Emergency Stop Torque	T_{2NEC}	Nm	1005	900	960	960	900	885	885	885	960	900	885	885	885	
		in.lb	8895	7966	8497	8497	7966	7833	7833	7833	8497	7966	7833	7833	7833	7833
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	603	540	576	576	540	531	531	531	576	540	531	531	531	
		in.lb	5337	4779	5098	5098	4779	4700	4700	4700	5098	4779	4700	4700	4700	4700
最大扭矩 Maximum Torque	T_{2a}	Nm	670	600	640	640	600	590	590	590	640	600	590	590	590	
		in.lb	5930	5310	5664	5664	5310	5222	5222	5222	5664	5310	5222	5222	5222	5222
額定輸入轉速 Permitted Average Input Speed	n_{IN}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{IMax}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.2	1.15	1.05	1.01	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
		in.lb	10.62	10.18	9.29	8.94	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	26													
		in.lb/arcmin	230.12													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700													
		lb _r	1506													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300													
		lb _a	742													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	603													
		in.lb	5337													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	3.25	2.74	2.71	2.71	2.62	2.62	2.62	2.57	2.57	2.57	2.57	2.57	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	9													
		lb _m	19.8													

KVX-B115 2-stage

		2-stage																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	335	300	320	320	320	320	320	320	320	300	300	295	295	295	300	300	295	295	295	
		in.lb	2965	2655	2832	2832	2832	2832	2832	2832	2832	2655	2655	2611	2611	2611	2655	2655	2611	2611	2611	
故障停止扭矩 Emergency Stop Torque	T_{2NEC}	Nm	1005	900	960	960	960	960	960	960	900	900	885	885	885	900	900	885	885	885	885	
		in.lb	8895	7966	8497	8497	8497	8497	8497	8497	8497	7966	7966	7833	7833	7833	7966	7966	7833	7833	7833	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	603	540	576	576	576	576	576	576	540	540	531	531	531	540	540	531	531	531	531	
		in.lb	5337	4779	5098	5098	5098	5098	5098	5098	5098	4779	4779	4700	4700	4700	4779	4779	4700	4700	4700	
最大扭矩 Maximum Torque	T_{2a}	Nm	670	600	640	640	640	640	640	640	600	600	590	590	590	600	600	590	590	590	590	
		in.lb	5930	5310	5664	5664	5664	5664	5664	5664	5310	5310	5222	5222	5222	5310	5310	5222	5222	5222	5222	
額定輸入轉速 Permitted Average Input Speed	n_{IN}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{IMax}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.85	0.85	0.85	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	
		in.lb	7.52	7.52	7.52	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤9																			
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤7																			
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤5																			
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	26																			
		in.lb/arcmin	230.12																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	6700																			
		lb _r	1506																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3300																			
		lb _a	742																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	406.2																			
		in.lb	3595																			
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	1.5	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.53	1.53	1.49	1.49	1.49	1.49	1.49		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68																			
滿載效率 Efficiency at Full loading	η	%	92																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																			
重量 Weight	m	kg	13																			
		lb _m	28.6																			

KVX-B142 1-stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	630	550	620	600	575	550	510	510	600	575	550	510	510	
		in.lb	5576	4868	5487	5310	5089	4868	4514	4514	5310	5089	4868	4514	4514	
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	1890	1650	1860	1800	1725	1650	1530	1530	1800	1725	1650	1530	1530	
		in.lb	16728	14604	16462	15931	15267	14604	13542	13542	15931	15267	14604	13542	13542	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1134	990	1116	1080	1035	990	918	918	1080	1035	990	918	918	
		in.lb	10037	8762	9877	9559	9160	8762	8125	8125	9559	9160	8762	8125	8125	
最大扭矩 Maximum Torque	T_{2a}	Nm	1260	1100	1240	1200	1150	1100	1020	1020	1200	1150	1100	1020	1020	
		in.lb	11152	9736	10975	10621	10178	9736	9028	9028	10621	10178	9736	9028	9028	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.75	2.65	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
		in.lb	24.34	23.45	22.13	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	52													
		in.lb/arcmin	460.24													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600													
		lb _r	2158													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800													
		lb _a	1079													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1275													
		in.lb	11285													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.31	7.54	7.42	7.42	7.25	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	26													
		lb _m	57.2													

KVX-B142 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	630	550	620	620	620	620	620	620	620	600	575	550	510	510	600	575	550	510	510
		in.lb	5576	4868	5487	5487	5487	5487	5487	5487	5487	5487	5310	5089	4868	4514	4514	5310	5089	4868	4514
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	1890	1650	1860	1860	1860	1860	1860	1860	1860	1800	1725	1650	1530	1530	1800	1725	1650	1530	1530
		in.lb	16728	14604	16462	16462	16462	16462	16462	16462	16462	15931	15267	14604	13542	13542	15931	15267	14604	13542	13542
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	1134	990	1116	1116	1116	1116	1116	1116	1116	1080	1035	990	918	918	1080	1035	990	918	918
		in.lb	10037	8762	9877	9877	9877	9877	9877	9877	9877	9559	9160	8762	8125	8125	9559	9160	8762	8125	8125
最大扭矩 Maximum Torque	T_{2a}	Nm	1260	1100	1240	1240	1240	1240	1240	1240	1240	1200	1150	1100	1020	1020	1200	1150	1100	1020	1020
		in.lb	11152	9736	10975	10975	10975	10975	10975	10975	10975	10621	10178	9736	9028	9028	10621	10178	9736	9028	9028
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
		in.lb	20.36	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	52																		
		in.lb/arcmin	460.24																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	9600																		
		lb _r	2158																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	4800																		
		lb _a	1079																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	830.4																		
		in.lb	7350																		
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	7.47	6.65	5.81	6.34	5.36	4.08	5.36	4.08	4.08	4.08	4.08	7.4	7.3	7.3	7.3	7.3	7.3	7.3	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70																		
滿載效率 Efficiency at Full loading	η	%	92																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	31																		
		lb _m	68.2																		

KVX-B180 1-stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	1220	1170	1170	1100	1100	1060	1060	1060	1100	1100	1060	1060	1060	1060
		in.lb	10798	10355	10355	9736	9736	9382	9382	9382	9736	9736	9382	9382	9382	9382
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	3660	3510	3510	3300	3300	3180	3180	3180	3300	3300	3180	3180	3180	3180
		in.lb	32394	31066	31066	29207	29207	28145	28145	28145	29207	29207	28145	28145	28145	28145
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2196	2106	2106	1980	1980	1908	1908	1908	1980	1980	1908	1908	1908	1908
		in.lb	19436	18640	18640	17524	17524	16887	16887	16887	17524	17524	16887	16887	16887	16887
最大扭矩 Maximum Torque	T_{2a}	Nm	2440	2340	2340	2200	2200	2120	2120	2120	2200	2200	2120	2120	2120	2120
		in.lb	21596	20711	20711	19472	19472	18763	18763	18763	19472	19472	18763	18763	18763	18763
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.9	3.8	3.55	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
		in.lb	34.52	33.63	31.42	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09	30.09
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	138													
		in.lb/arcmin	1221.40													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000													
		lb _r	3147													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000													
		lb _a	1574													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2013													
		in.lb	17816													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	28.98	23.67	22.75	22.75	22.48	22.59	22.59	22.55	22.55	22.55	22.55	22.55	22.55	22.55
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	41													
		lb _m	90.2													

KVX-B180 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	1220	1170	1170	1170	1170	1170	1170	1170	1170	1100	1100	1060	1060	1060	1100	1100	1060	1060	1060
		in.lb	10798	10355	10355	10355	10355	10355	10355	10355	10355	9736	9736	9382	9382	9382	9736	9736	9382	9382	9382
故障停止扭矩 Emergency Stop Torque	T_{2Nst}	Nm	3660	3510	3510	3510	3510	3510	3510	3510	3300	3300	3180	3180	3180	3300	3300	3180	3180	3180	3180
		in.lb	32394	31066	31066	31066	31066	31066	31066	31066	29207	29207	28145	28145	28145	29207	29207	28145	28145	28145	28145
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2196	2106	2106	2106	2106	2106	2106	2106	1980	1980	1908	1908	1908	1980	1980	1908	1908	1908	1908
		in.lb	19436	18640	18640	18640	18640	18640	18640	18640	17524	17524	16887	16887	16887	17524	17524	16887	16887	16887	16887
最大扭矩 Maximum Torque	T_{2a}	Nm	2440	2340	2340	2340	2340	2340	2340	2340	2200	2200	2120	2120	2120	2200	2200	2120	2120	2120	2120
		in.lb	21596	20711	20711	20711	20711	20711	20711	20711	19472	19472	18763	18763	18763	19472	19472	18763	18763	18763	18763
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
		in.lb	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	138																		
		in.lb/arcmin	1221.40																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	14000																		
		lb _r	3147																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	7000																		
		lb _a	1574																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1386																		
		in.lb	12267																		
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	7.42	7.42	7.54	7.14	7.14	22.55	7.14	7.14	7.14	7.14	7.54	7.54	7.42	7.42	7.42	7.42	7.42	7.42	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72																		
滿載效率 Efficiency at Full loading	η	%	95																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	49																		
		lb _m	107.8																		

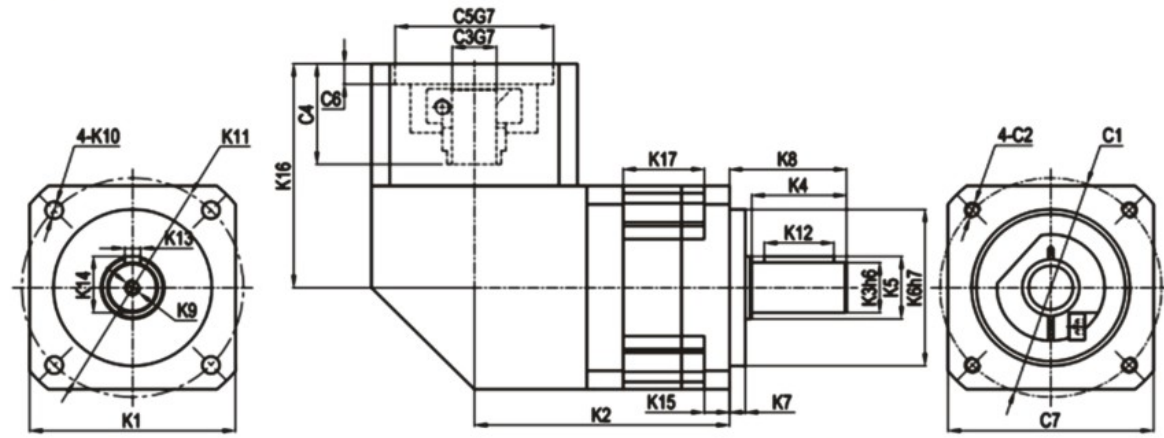
KVX-B220 1-stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	2050	2000	2000	1900	1900	1800	1800	1800	1900	1900	1800	1800	1800	1800	
		in.lb	18144	17701	17701	16816	16816	15931	15931	15931	16816	16816	15931	15931	15931	15931	
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	6150	6000	6000	5700	5700	5400	5400	5400	5700	5700	5400	5400	5400	5400	
		in.lb	54432	53104	53104	50449	50449	47794	47794	47794	50449	50449	47794	47794	47794	47794	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3690	3600	3600	3420	3420	3240	3240	3240	3420	3420	3240	3240	3240	3240	
		in.lb	32659	31863	31863	30269	30269	28676	28676	28676	30269	30269	28676	28676	28676	28676	
最大扭矩 Maximum Torque	T_{2a}	Nm	4100	4000	4000	3800	3800	3600	3600	3600	3800	3800	3600	3600	3600	3600	
		in.lb	36288	35403	35403	33633	33633	31863	31863	31863	33633	33633	31863	31863	31863	31863	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	5.6	5.4	5.25	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	5.07	
		in.lb	49.56	47.79	46.47	44.87	44.87	44.87	44.87	44.87	44.87	44.87	44.87	44.87	44.87	44.87	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	220														
		in.lb/arcmin	1947.15														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000														
		lb _r	3597														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000														
		lb _a	1798														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2676														
		in.lb	23684														
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	69.61	54.37	53.27	53.27	50.84	50.84	50.84	50.56	50.56	50.56	50.56	50.56	50.56		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 75														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	68														
		lb _m	149.6														

KVX-B220 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	2050	2000	2000	2000	2000	2000	2000	2000	2000	1900	1900	1800	1800	1800	1900	1900	1800	1800	1800
		in.lb	18144	17701	17701	17701	17701	17701	17701	17701	17701	16816	16816	15931	15931	15931	16816	16816	15931	15931	15931
故障停止扭矩 Emergency Stop Torque	T_{2NE}	Nm	6150	6000	6000	6000	6000	6000	6000	6000	6000	5700	5700	5400	5400	5400	5700	5700	5400	5400	5400
		in.lb	54432	53104	53104	53104	53104	53104	53104	53104	53104	50449	50449	47794	47794	47794	50449	50449	47794	47794	47794
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3690	3600	3600	3600	3600	3600	3600	3600	3600	3420	3420	3240	3240	3240	3420	3420	3240	3240	3240
		in.lb	32659	31863	31863	31863	31863	31863	31863	31863	31863	30269	30269	28676	28676	28676	30269	30269	28676	28676	28676
最大扭矩 Maximum Torque	T_{2a}	Nm	4100	4000	4000	4000	4000	4000	4000	4000	4000	3800	3800	3600	3600	3600	3800	3800	3600	3600	3600
		in.lb	36288	35403	35403	35403	35403	35403	35403	35403	35403	33633	33633	31863	31863	31863	33633	33633	31863	31863	31863
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	1500																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	3000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.55	3.55	3.55	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
		in.lb	31.42	31.42	31.42	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	220																		
		in.lb/arcmin	1947.15																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	16000																		
		lb _r	3597																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	8000																		
		lb _a	1798																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1936																		
		in.lb	17135																		
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	22.75	22.75	22.75	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	22.59	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 75																		
滿載效率 Efficiency at Full loading	η	%	92																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	78																		
		lb _m	171.6																		

KVX-B Dimensions



Model	KVX-B065		KVX-B085		KVX-B115		KVX-B142		KVX-B180		KVX-B220	
Stage	1	2	1	2	1	2	1	2	1	2	1	2
K1	65		85		110		142		180		220	
	2.559		3.346		4.331		5.591		7.087		8.661	
K2	93	116.7	105.2	136.5	154	195.8	187	248	204.5	251.5	220	285.5
	3.661	4.594	4.142	5.374	6.063	7.709	7.362	9.764	8.051	9.902	8.661	11.240
K3	16		22		32		40		55		75	
	0.630		0.866		1.260		1.575		2.165		2.953	
K4	30		36		50		80		82		105	
	1.181		1.417		1.969		3.150		3.228		4.134	
K5	20		25		40		55		60		85	
	0.787		0.984		1.575		2.165		2.362		3.346	
K6	50		80		110		130		160		180	
	1.969		3.150		4.331		5.118		6.299		7.087	
K7	5		10		12		15		20		30	
	0.197		0.394		0.472		0.591		0.787		1.181	
K8	37		48		65		97		105		138	
	1.457		1.890		2.559		3.819		4.134		5.433	
K9	M5X12		M6X16		M10X22		M12X26		M20X40		M20X40	
	5.5		6.5		9		11		13		17	
K10	0.217		0.256		0.354		0.433		0.512		0.669	
K11	70		100		130		165		215		250	
	2.756		3.937		5.118		6.496		8.465		9.843	
K12	22		28		40		70		70		90	
	0.866		1.102		1.575		2.756		2.756		3.543	
K13	5		6		10		12		16		20	
	0.197		0.236		0.394		0.472		0.630		0.787	
K14	18		24.5		35		43		59		79.5	
	0.709		0.965		1.378		1.693		2.323		3.130	
K15	8		10		14		15		20		20	
	0.315		0.394		0.551		0.591		0.787		0.787	
K16	83		94		140		169		204	169	210	204
	3.248		3.701		5.512		6.654		8.031	6.654	8.268	8.031
K17	37.6	61.3	39.7	66	60	101.8	80	141	69		81	
	1.480	2.413	1.563	2.598	2.362	4.008	3.150	5.551	2.7		3.2	
C1	70		90		145		200		215	200	235	215
	2.756		3.543		5.709		7.874		8.465	7.874	9.252	8.465
C2	M5X12		M6X15		M8X20		M12X12		M12X25	M12X25	M12X25	M12X25
	14		19		24		35		42	35	42	35
C3	0.551		0.748		0.945		1.378		1.654	1.378	1.654	1.378
C4	32.1		41.3		61.3		81.3		82.5	81.3	116	82.5
	1.264		1.626		2.413		3.201		3.248	3.201	4.567	3.248
C5	50		70		110		114.3		180	114.3	200	180
	1.969		2.756		4.331		4.500		7.087	4.500	7.874	7.087
C6	6.5		6.5		8		6.5		8	8	8	8
	0.256		0.256		0.315		0.256		0.315	0.315	0.315	0.315
C7	65		85		120		175		190	175	220	190
	2.559		3.346		4.724		6.890		7.480	6.890	8.661	7.480

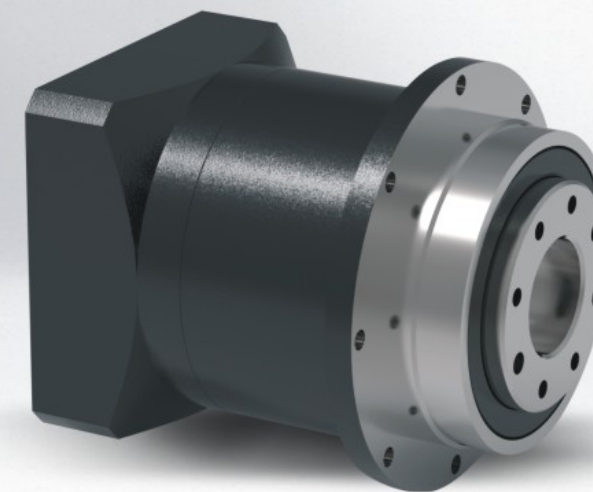
減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

KPH

勁強·精密·可靠

▶ 伺服行星減速機

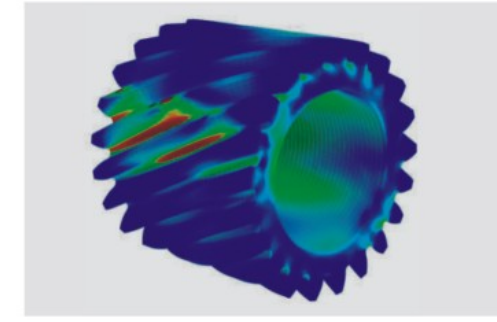
中空型減速機





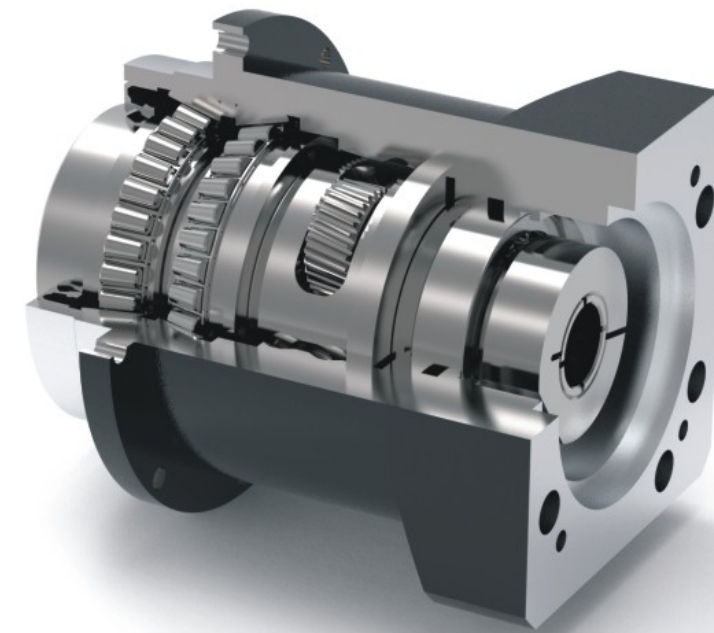
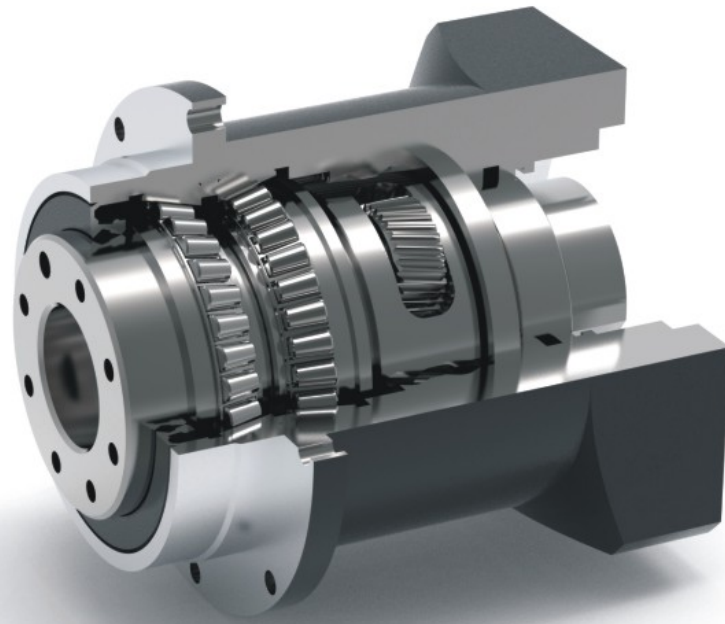
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



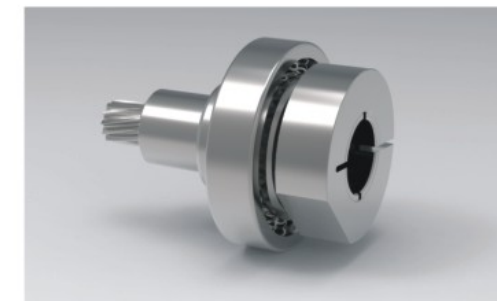
Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

KPH050 1-stage

		1-stage								
減速比 Ratio	i		4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	21	21	20	18	18	14	14	
		in.lb	186	186	177	159	159	124	124	
故障停止扭矩 Emergency Stop Torque	$T_{2\text{stop}}$	Nm	63	63	60	54	54	42	42	
		in.lb	558	558	531	478	478	372	372	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	37.8	37.8	36	32.4	32.4	25.2	25.2	
		in.lb	335	335	319	287	287	223	223	
最大扭矩 Maximum Torque	T_{2a}	Nm	42	42	40	36	36	28	28	
		in.lb	372	372	354	319	319	248	248	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000							
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	8000							
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.15	0.14	0.12	0.12	0.12	0.12	0.11	
		in.lb	1.33	1.24	1.06	1.06	1.06	1.06	0.97	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤6							
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤4							
扭轉剛性 Torsional Rigidity	C_{021}	Nm/arcmin	7							
		in.lb/arcmin	61.95							
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	700							
		lb _r	157							
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	450							
		lb _a	101							
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	28							
		in.lb	248							
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.022	0.019	0.017	0.017	0.017	0.017	0.017	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 56							
滿載效率 Efficiency at Full loading	η	%	97							
工作溫度 Operating Temperature		°C	-25 to +90							
		F	-13 to +194							
潤滑方式 Lubrication			Synthetic Lubrication Grease							
安裝方式 Mounting Position			Any Directions							
防護等級 Protection Class			IP65							
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)							
重量 Weight	m	kg	1							
		lb _m	1.54							

KPH050 2-stage

		2-stage															
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100		
額定輸出扭矩 Nominal Output Torque		Nm	21	21	21	21	21	21	21	21	20	18	18	14	14		
		in.lb	186	186	186	186	186	186	186	186	186	177	159	159	124	124	
故障停止扭矩 Emergency Stop Torque	$T_{2\text{stop}}$	Nm	63	63	63	63	63	63	63	63	60	54	54	42	42		
		in.lb	558	558	558	558	558	558	558	558	558	531	478	478	372	372	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	36	32.4	32.4	25.2	25.2		
		in.lb	335	335	335	335	335	335	335	335	335	319	287	287	223	223	
最大扭矩 Maximum Torque	T_{2a}	Nm	42	42	42	42	42	42	42	42	40	36	36	28	28		
		in.lb	372	372	372	372	372	372	372	372	372	354	319	319	248	248	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	8000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11		
		in.lb	1.24	1.24	1.24	1.24	1.06	1.06	1.06	1.06	1.06	1.06	1.06	0.97	0.97		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤8														
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤6														
扭轉剛性 Torsional Rigidity	C_{021}	Nm/arcmin	7														
		in.lb/arcmin	61.95														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	700														
		lb _r	157														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	450														
		lb _a	101														
最大傾覆力矩 Max. Tilting Moment		Nm	28														
		in.lb	248														
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.019	0.019	0.019	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 56														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	1.1														
		lb _m	2.2														

KPH070 1-stage

		1-stage								
減速比 Ratio	i		4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	52	55	50	50	45	42	42	
		in.lb	460	487	443	443	398	372	372	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	156	165	150	150	135	126	126	
		in.lb	1381	1460	1328	1328	1195	1115	1115	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	93.6	99	90	90	81	75.6	75.6	
		in.lb	828	876	797	797	717	669	669	
最大扭矩 Maximum Torque	T_{2a}	Nm	104	110	100	100	90	84	84	
		in.lb	920	974	885	885	797	743	743	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000							
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000							
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.3	0.27	0.25	0.25	0.25	0.25	0.25	
		in.lb	2.66	2.39	2.21	2.21	2.21	2.21	2.21	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5							
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3							
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1							
扭轉剛性 Torsional Rigidity	C_{D1}	Nm/arcmin	14							
		in.lb/arcmin	123.91							
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	2500							
		lb _r	562							
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	2000							
		lb _a	450							
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	80							
		in.lb	708							
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.140	0.130	0.130	0.130	0.130	0.130	0.130	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58							
滿載效率 Efficiency at Full loading	η	%	97							
工作溫度 Operating Temperature		°C	-25 to +90							
		F	-13 to +194							
潤滑方式 Lubrication			Synthetic Lubrication Grease							
安裝方式 Mounting Position			Any Directions							
防護等級 Protection Class			IP 65							
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)							
重量 Weight	m	kg	1.4							
		lb _m	3.1							

KPH070 2-stage

		2-stage																
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	52	52	55	55	55	55	55	55	50	50	45	42	42			
		in.lb	460	460	487	487	487	487	487	487	443	443	398	372	372			
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	156	156	165	165	165	165	165	165	150	150	135	126	126			
		in.lb	1381	1381	1460	1460	1460	1460	1460	1460	1328	1328	1195	1115	1115			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	93.6	93.6	99	99	99	99	99	99	90	90	81	75.6	75.6			
		in.lb	828	828	876	876	876	876	876	876	797	797	717	669	669			
最大扭矩 Maximum Torque	T_{2a}	Nm	104	104	110	110	110	110	110	110	100	100	90	84	84			
		in.lb	920	920	974	974	974	974	974	974	885	885	797	743	743			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.27	0.27	0.27	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25			
		in.lb	2.39	2.39	2.39	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D1}	Nm/arcmin	14															
		in.lb/arcmin	123.91															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	2500															
		lb _r	562															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	2000															
		lb _a	450															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	80															
		in.lb	708															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.124	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.075	0.064	0.064		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	1.6															
		lb _m	3.5															

KPH090 1-stage

		1-stage								
減速比 Ratio	i		4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	145	155	145	135	115	105	105	
		in.lb	1283	1372	1283	1195	1018	929	929	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	435	465	435	405	345	315	315	
		in.lb	3850	4116	3850	3585	3053	2788	2788	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	261	279	261	243	207	189	189	
		in.lb	2310	2469	2310	2151	1832	1673	1673	
最大扭矩 Maximum Torque	T_{2a}	Nm	290	310	290	270	230	210	210	
		in.lb	2567	2744	2567	2390	2036	1859	1859	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000							
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000							
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.46	0.41	0.39	0.35	0.35	0.35	0.35	
		in.lb	4.07	3.63	3.45	3.10	3.10	3.10	3.10	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5							
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3							
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1							
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	35							
		in.lb/arcmin	309.77							
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4500							
		lb _r	1012							
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3500							
		lb _a	787							
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	228							
		in.lb	2018							
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.48	0.47	0.47	0.47	0.45	0.44	0.44	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60							
滿載效率 Efficiency at Full loading	η	%	97							
工作溫度 Operating Temperature		°C	-25 to +90							
		F	-13 to +194							
潤滑方式 Lubrication			Synthetic Lubrication Grease							
安裝方式 Mounting Position			Any Directions							
防護等級 Protection Class			IP 65							
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)							
重量 Weight	m	kg	3.3							
		lb _m	7.3							

KPH090 2-stage

		2-stage															
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100		
額定輸出扭矩 Nominal Output Torque		Nm	145	145	155	155	155	155	155	155	145	135	115	105	105		
		in.lb	1283	1283	1372	1372	1372	1372	1372	1372	1372	1283	1195	1018	929	929	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	435	435	465	465	465	465	465	465	435	405	345	315	315		
		in.lb	3850	3850	4116	4116	4116	4116	4116	4116	4116	3850	3585	3053	2788	2788	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	261	261	279	279	279	279	279	279	261	243	207	189	189		
		in.lb	2310	2310	2469	2469	2469	2469	2469	2469	2469	2310	2151	1832	1673	1673	
最大扭矩 Maximum Torque	T_{2a}	Nm	290	290	310	310	310	310	310	310	290	270	230	210	210		
		in.lb	2567	2567	2744	2744	2744	2744	2744	2744	2744	2567	2390	2036	1859	1859	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.41	0.41	0.41	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35		
		in.lb	3.63	3.63	3.63	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	35														
		in.lb/arcmin	309.77														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4500														
		lb _r	1012														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3500														
		lb _a	787														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	228														
		in.lb	2018														
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.44	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.44	0.44	0.44		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	4.5														
		lb _m	9.9														

KPH120 1-stage

		1-stage							
減速比 Ratio	i		4	5	6	7	8	9	10
額定輸出扭矩 Nominal Output Torque		Nm	300	320	300	290	255	220	220
		in.lb	2655	2832	2655	2567	2257	1947	1947
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	900	960	900	870	765	660	660
		in.lb	7966	8497	7966	7700	6771	5841	5841
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	540	576	540	522	459	396	396
		in.lb	4779	5098	4779	4620	4062	3505	3505
最大扭矩 Maximum Torque	T_{2a}	Nm	600	640	600	580	510	440	440
		in.lb	5310	5664	5310	5133	4514	3894	3894
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000						
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000						
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.05	0.95	0.91	0.88	0.88	0.88	0.88
		in.lb	9.29	8.41	8.05	7.79	7.79	7.79	7.79
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5						
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3						
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1						
扭轉剛性 Torsional Rigidity	C_{D1}	Nm/arcmin	90						
		in.lb/arcmin	796.56						
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7800						
		lb _r	1753						
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6000						
		lb _a	1349						
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	450						
		in.lb	3983						
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	2.74	2.71	2.71	2.62	2.62	2.62	2.57
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63						
滿載效率 Efficiency at Full loading	η	%	97						
工作溫度 Operating Temperature		°C	-25 to +90						
		F	-13 to +194						
潤滑方式 Lubrication			Synthetic Lubrication Grease						
安裝方式 Mounting Position			Any Directions						
防護等級 Protection Class			IP 65						
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)						
重量 Weight	m	kg	5.5						
		lb _m	12.1						

KPH120 2-stage

		2-stage																
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	300	300	320	320	320	320	320	320	300	290	255	220	220			
		in.lb	2655	2655	2832	2832	2832	2832	2832	2832	2655	2567	2257	1947	1947			
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	900	900	960	960	960	960	960	960	900	870	765	660	660			
		in.lb	7966	7966	8497	8497	8497	8497	8497	8497	7966	7700	6771	5841	5841			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	540	540	576	576	576	576	576	576	540	522	459	396	396			
		in.lb	4779	4779	5098	5098	5098	5098	5098	5098	4779	4620	4062	3505	3505			
最大扭矩 Maximum Torque	T_{2a}	Nm	600	600	640	640	640	640	640	640	600	580	510	440	440			
		in.lb	5310	5310	5664	5664	5664	5664	5664	5664	5310	5133	4514	3894	3894			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.95	0.95	0.95	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
		in.lb	8.41	8.41	8.41	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D1}	Nm/arcmin	90															
		in.lb/arcmin	796.56															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7800															
		lb _r	1753															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6000															
		lb _a	1349															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	450															
		in.lb	3983															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	2.58	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.44	0.44	0.44	0.44		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	8															
		lb _m	17.6															

KPH160 1-stage

		1-stage							
減速比 Ratio	i		4	5	6	7	8	9	10
額定輸出扭矩 Nominal Output Torque		Nm	550	650	610	540	510	440	440
		in.lb	4868	5753	5399	4779	4514	3894	3894
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	1650	1950	1830	1620	1530	1320	1320
		in.lb	14604	17259	16197	14338	13542	11683	11683
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	990	1170	1098	972	918	792	792
		in.lb	8762	10355	9718	8603	8125	7010	7010
最大扭矩 Maximum Torque	T_{2a}	Nm	1100	1300	1220	1080	1020	880	880
		in.lb	9736	11506	10798	9559	9028	7789	7789
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000						
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000						
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.6	2.5	2.4	2.4	2.4	2.4	2.4
		in.lb	23.01	22.13	21.24	21.24	21.24	21.24	21.24
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤5						
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤3						
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤1						
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	205						
		in.lb/arcmin	1814.39						
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	12000						
		lb _r	2698						
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	10000						
		lb _a	2248						
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1012						
		in.lb	8957						
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	7.54	7.42	7.42	7.25	7.14	7.14	7.14
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65						
滿載效率 Efficiency at Full loading	η	%	97						
工作溫度 Operating Temperature		°C	-25 to +90						
		F	-13 to +194						
潤滑方式 Lubrication			Synthetic Lubrication Grease						
安裝方式 Mounting Position			Any Directions						
防護等級 Protection Class			IP 65						
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)						
重量 Weight	m	kg	20						
		lb _m	44.0						

KPH160 2-stage

		2-stage														
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	
額定輸出扭矩 Nominal Output Torque		Nm	550	550	650	650	650	650	650	650	610	540	510	440	440	
		in.lb	4868	4868	5753	5753	5753	5753	5753	5753	5753	5399	4779	4514	3894	3894
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	1650	1650	1950	1950	1950	1950	1950	1950	1830	1620	1530	1320	1320	
		in.lb	14604	14604	17259	17259	17259	17259	17259	17259	17259	16197	14338	13542	11683	11683
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	990	990	1170	1170	1170	1170	1170	1170	1098	972	918	792	792	
		in.lb	8762	8762	10355	10355	10355	10355	10355	10355	10355	9718	8603	8125	7010	7010
最大扭矩 Maximum Torque	T_{2a}	Nm	1100	1100	1300	1300	1300	1300	1300	1300	1220	1080	1020	880	880	
		in.lb	9736	9736	11506	11506	11506	11506	11506	11506	11506	10798	9559	9028	7789	7789
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
		in.lb	23.01	23.01	23.01	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	
標準間隙 P1 Standard Backlash P1	j_1	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_1	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_1	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	205													
		in.lb/arcmin	1814.39													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	12000													
		lb _r	2698													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	10000													
		lb _a	2248													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1012													
		in.lb	8957													
質量慣性力矩 Mass Moment of Inertia	j_1	kgcm ²	12.35	6.65	5.81	5.36	5.36	4.08	5.36	4.08	7.4	7.4	7.4	7.3	7.3	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	25													
		lb _m	55													

KPH205 1-stage

		1-stage								
減速比 Ratio	i		4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	1250	1200	1000	1000	1000	910	910	
		in.lb	11063	10621	8851	8851	8851	8054	8054	
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	3750	3600	3000	3000	3000	2730	2730	
		in.lb	33190	31863	26552	26552	26552	24162	24162	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2160	1800	1800	1800	1638	1638	
		in.lb	19914	19118	15931	15931	15931	14497	14497	
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2400	2000	2000	2000	1820	1820	
		in.lb	22127	21242	17701	17701	17701	16108	16108	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000							
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000							
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.5	3.4	3.2	3.2	3.2	3.2	3.2	
		in.lb	30.98	30.09	28.32	28.32	28.32	28.32	28.32	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5							
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3							
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1							
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	560							
		in.lb/arcmin	4956.39							
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	18000							
		lb _r	4046							
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	15000							
		lb _a	3372							
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2050							
		in.lb	18144							
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	23.67	22.75	22.75	22.48	22.59	22.59	22.55	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67							
滿載效率 Efficiency at Full loading	η	%	97							
工作溫度 Operating Temperature		°C	-25 to +90							
		F	-13 to +194							
潤滑方式 Lubrication			Synthetic Lubrication Grease							
安裝方式 Mounting Position			Any Directions							
防護等級 Protection Class			IP 65							
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)							
重量 Weight	m	kg	31							
		lb _m	68.2							

KPH205 2-stage

		2-stage														
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	
額定輸出扭矩 Nominal Output Torque		Nm	1250	1250	1200	1200	1200	1200	1200	1200	1000	1000	1000	910	910	
		in.lb	11063	11063	10621	10621	10621	10621	10621	10621	10621	8851	8851	8851	8054	8054
故障停止扭矩 Emergency Stop Torque	T_{2Max}	Nm	3750	3750	3600	3600	3600	3600	3600	3600	3000	3000	3000	2730	2730	
		in.lb	33190	33190	31863	31863	31863	31863	31863	31863	31863	26552	26552	26552	24162	24162
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2250	2160	2160	2160	2160	2160	2160	1800	1800	1800	1638	1638	
		in.lb	19914	19914	19118	19118	19118	19118	19118	19118	19118	15931	15931	15931	14497	14497
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2500	2400	2400	2400	2400	2400	2400	2000	2000	2000	1820	1820	
		in.lb	22127	22127	21242	21242	21242	21242	21242	21242	21242	17701	17701	17701	16108	16108
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
		in.lb	22.13	22.13	22.13	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	560													
		in.lb/arcmin	4956.39													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	18000													
		lb _r	4046													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	15000													
		lb _a	3372													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2050													
		in.lb	18144													
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.3	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.54	7.54	7.54	7.42	7.42	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	39													
		lb _m	85.8													

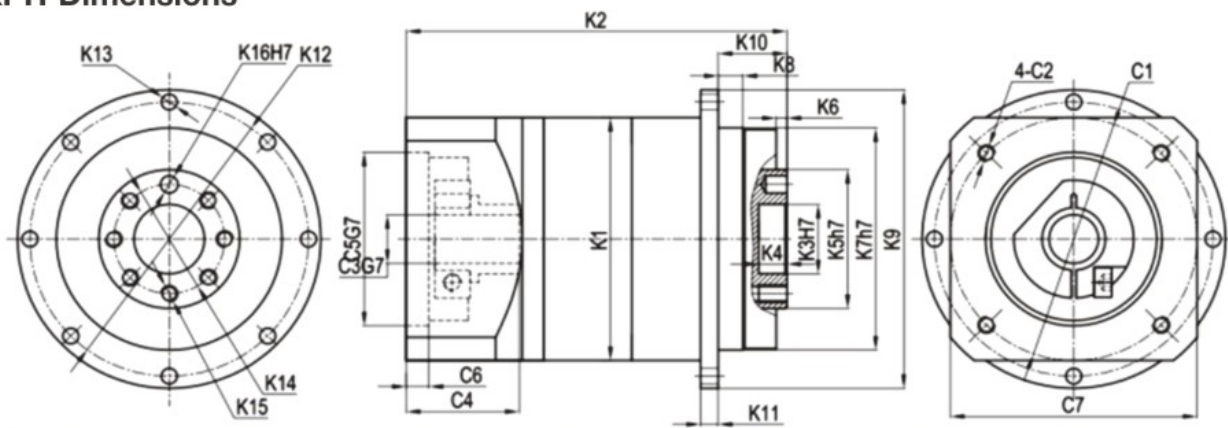
KPH255 1-stage

		1-stage								
減速比 Ratio	i		4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	1800	2050	1850	1750	1550	1500	1500	
		in.lb	15931	18144	16374	15489	13719	13276	13276	
故障停止扭矩 Emergency Stop Torque	$T_{2\text{stop}}$	Nm	5400	6150	5550	5250	4650	4500	4500	
		in.lb	47794	54432	49121	46466	41156	39828	39828	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3240	3690	3330	3150	2790	2700	2700	
		in.lb	28676	32659	29473	27880	24693	23897	23897	
最大扭矩 Maximum Torque	T_{2a}	Nm	3600	4100	3700	3500	3100	3000	3000	
		in.lb	31863	36288	32748	30977	27437	26552	26552	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000							
最大輸入轉速 Maximum Input Speed	$n_{1\text{Max}}$	rpm	4000							
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	5.5	5.25	5.1	5.1	5.1	5.1	5.1	
		in.lb	48.68	46.47	45.14	45.14	45.14	45.14	45.14	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5							
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3							
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1							
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	1130							
		in.lb/arcmin	10001.29							
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	45000							
		lb _r	10116							
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	22500							
		lb _a	5058							
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	6085							
		in.lb	53857							
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	37.37	33.27	30.27	27.84	25.84	24.84	23.56	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70							
滿載效率 Efficiency at Full loading	η	%	97							
工作溫度 Operating Temperature		°C	-25 to +90							
		F	-13 to +194							
潤滑方式 Lubrication			Synthetic Lubrication Grease							
安裝方式 Mounting Position			Any Directions							
防護等級 Protection Class			IP 65							
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)							
重量 Weight	m	kg	70							
		lb _m	154							

KPH255 2-stage

		2-stage														
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	
額定輸出扭矩 Nominal Output Torque		Nm	1800	1800	2050	2050	2050	2050	2050	2050	1850	1750	1550	1500	1500	
		in.lb	15930	15930	18143	18143	18143	18143	18143	18143	16373	15488	13718	13275	13275	
故障停止扭矩 Emergency Stop Torque	$T_{2\text{stop}}$	Nm	5400	5400	6150	6150	6150	6150	6150	6150	5550	5250	4650	4500	4500	
		in.lb	47790	47790	54428	54428	54428	54428	54428	54428	49118	46463	41153	39825	39825	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	3240	3240	3690	3690	3690	3690	3690	3690	3330	3150	2790	2700	2700	
		in.lb	28674	28674	32657	32657	32657	32657	32657	32657	29471	27878	24692	23895	23895	
最大扭矩 Maximum Torque	T_{2a}	Nm	3600	3600	4100	4100	4100	4100	4100	4100	3700	3500	3100	3000	3000	
		in.lb	31860	31860	36285	36285	36285	36285	36285	36285	32745	30975	27435	26550	26550	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000													
最大輸入轉速 Maximum Input Speed	$n_{1\text{Max}}$	rpm	4000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.4	3.4	3.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
		in.lb	30.09	30.09	30.09	28.32	28.32	28.32	28.32	28.32	28.32	28.32	28.32	28.32	28.32	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	1130													
		in.lb/arcmin	10001.29													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	45000													
		lb _r	10116													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	22500													
		lb _a	5058													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	6085													
		in.lb	53857													
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	28.92	13.75	7.54	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	80													
		lb _m	176													

KPH Dimensions



Model	KPH050		KPH070		KPH090		KPH120		KPH160		KPH205		KPH255	
Stage	1	2	1	2	1	2	1	2	1	2	1	2	1	2
K1	60	70	90	120	160	210	253	2.362	2.756	3.543	4.724	6.299	8.268	9.961
K2	92.8	107.8	108	131.7	137.2	168.5	177	218.8	232.7	293.7	235	297	307	402.5
K3	12	20	31.5	40	50	80	100	1.102	1.575	2.480	3.150	3.937	6.299	7.087
K4	4	8	12	12	12	22.5	20	0.157	0.315	0.472	0.472	0.472	0.886	0.787
K5	28	40	63	80	100	160	180	1.102	1.575	2.480	3.150	3.937	6.299	7.087
K6	3	3	6	6	6	6	12	0.118	0.118	0.236	0.236	0.236	0.236	0.472
K7	47	64	90	110	140	200	255	1.850	2.520	3.543	4.331	5.512	7.874	10.039
K8	7	7	10	10	14.6	15	20	0.276	0.276	0.394	0.394	0.575	0.591	0.787
K9	72	86	118	145	179	247	300	2.835	3.386	4.646	5.709	7.047	9.724	11.811
K10	17.5	19.5	30	29	38	56	66	0.689	0.768	1.181	1.142	1.496	2.205	2.598
K11	4	5	8	10	10	12	18	0.157	0.197	0.315	0.394	0.394	0.472	0.709
K12	67	79	109	135	168	233	280	2.638	3.110	4.291	5.315	6.614	9.173	11.024
K13	3.4X8	4.5X8	5.5X8	5.5X8	6.6X12	9X12	13.5X16	0.134X8	0.177X8	0.217X8	0.217X8	0.260X12	0.354X12	0.531X12
K14	20.0	31.5	50	63	80	125	140	0.787	1.240	1.969	2.480	3.150	4.921	5.512
K15	4-M3X8	7-M5X8	7-M6X12	11-M6X15	11-M8X18	11-M10X17	12-M16X25	3X5	5X6	6X7	6X7	8X8	10X10	16X10
K16	0.118X5	0.197X6	0.236X7	0.236X7	0.315X8	0.394X10	0.63X10	46	70	90	145	200	215	200
C1	1.811	2.756	3.543	5.709	7.874	8.465	7.874	9.252	8.465	9.252	8.465	9.252	8.465	8.465
C2	M4X10	M5X12	M6X15	M8X20	M12X25	M12X25	M12X25	M12X25	M12X25	M12X25	M12X25	M12X25	M12X25	M12X25
C3	8	14	19	24	35	42	35	55	42	35	55	42	55	42
C4	0.315	0.551	0.748	0.945	1.378	1.654	1.378	2.165	1.654	1.378	2.165	1.654	2.165	1.654
C5	26.1	32.1	41.6	61.3	82	82.5	82	115.5	82.5	82	115.5	82.5	115.5	82.5
C6	1.028	1.264	1.638	2.413	3.228	3.248	3.228	4.547	3.248	3.228	4.547	3.248	4.547	3.248
C7	30	50	70	110	114.3	180	114.3	200	180	114.3	200	180	200	180
C8	1.181	1.969	2.756	4.331	4.500	7.087	4.500	7.874	7.087	4.500	7.874	7.087	7.874	7.087
C9	5	6.5	6.5	8	8	8	8	0.315	6.5	6.5	8	8	8	0.315
C10	0.197	0.256	0.256	0.315	0.315	0.315	0.315		0.197	0.256	0.256	0.315	0.315	
C11	60	70	97	120	175	190	175	220	60	70	97	120	175	190
C12	2.362	2.756	3.819	4.724	6.890	7.480	6.890	8.661	2.362	2.756	3.819	4.724	6.890	7.480

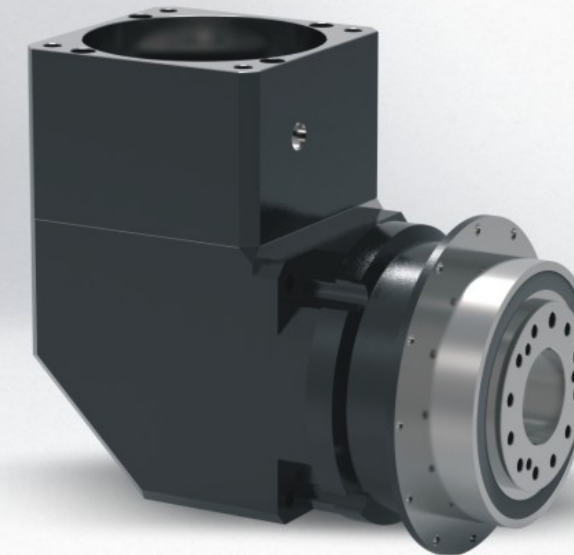
減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

KVH

勁強·精密·可靠

▶ 伺服行星減速機

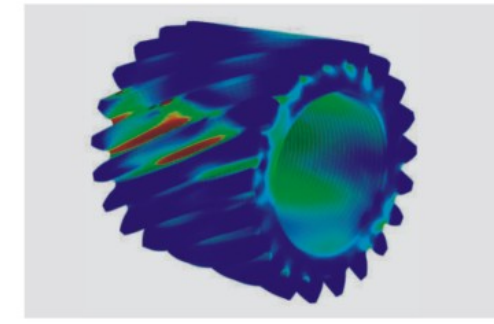
中空型減速機





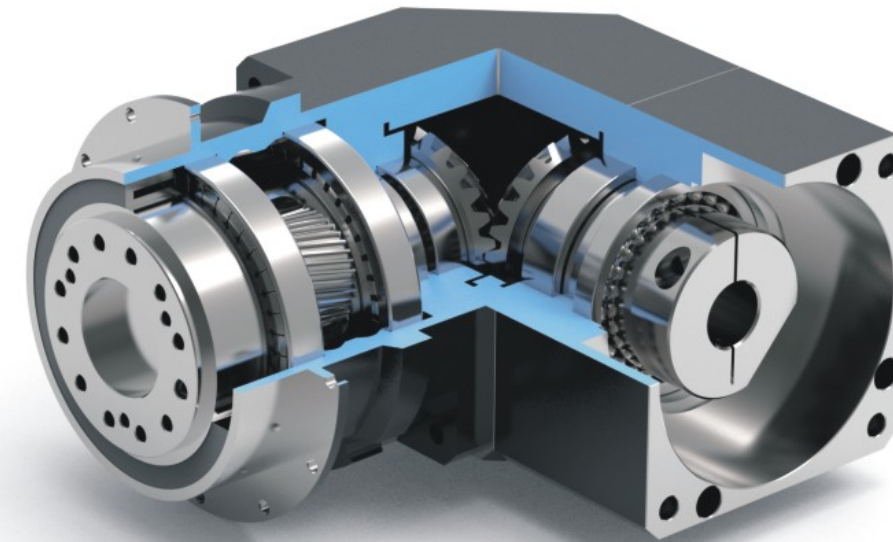
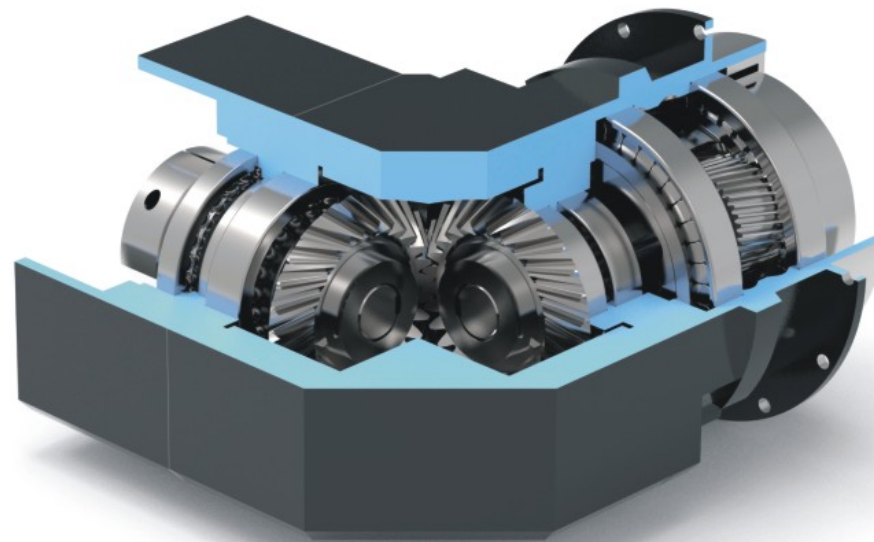
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



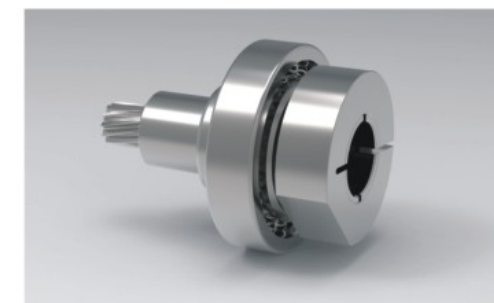
Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

KVH070 1-stage

		1-stage													
減速比 Ratio	i		4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	52	55	50	50	45	42	42	50	50	45	42	42	
		in.lb	460	487	443	443	398	372	372	443	443	398	372	372	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	156	165	150	150	135	126	126	150	150	135	126	126	
		in.lb	1381	1460	1328	1328	1195	1115	1115	1328	1328	1195	1115	1115	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	94	99	90	90	81	76	76	90	90	81	76	76	
		in.lb	828	876	797	797	717	669	669	797	797	717	669	669	
最大扭矩 Maximum Torque	T_{2a}	Nm	104	110	100	100	90	84	84	100	100	90	84	84	
		in.lb	920	974	885	885	797	743	743	885	885	797	743	743	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000												
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000												
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.35	0.32	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
		in.lb	3.10	2.83	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7												
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5												
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3												
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	14												
		in.lb/arcmin	123.91												
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	2500												
		lb _r	562												
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	2000												
		lb _r	450												
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	80												
		in.lb	708												
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.093	0.078	0.07	0.069	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63												
滿載效率 Efficiency at Full loading	η	%	95												
工作溫度 Operating Temperature		°C	-25 to +90												
		F	-13 to +194												
潤滑方式 Lubrication			Synthetic Lubrication Grease												
安裝方式 Mounting Position			Any Directions												
防護等級 Protection Class			IP 65												
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)												
重量 Weight	m	kg	2.3												
		lb _m	5.07												

KVH070 2-stage

		2-stage																				
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	52	52	55	55	55	55	55	55	50	50	45	42	42	50	50	45	42	42		
		in.lb	460	460	487	487	487	487	487	487	443	443	398	372	372	443	443	398	372	372		
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	156	156	165	165	165	165	165	165	150	150	135	126	126	150	150	135	126	126		
		in.lb	1381	1381	1460	1460	1460	1460	1460	1460	1328	1328	1195	1115	1115	1328	1328	1195	1115	1115		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	93.6	93.6	99	99	99	99	99	99	90	90	81	75.6	75.6	90	90	81	75.6	75.6		
		in.lb	828	828	876	876	876	876	876	876	797	797	717	669	669	797	797	717	669	669		
最大扭矩 Maximum Torque	T_{2a}	Nm	104	104	110	110	110	110	110	110	100	100	90	84	84	100	100	90	84	84		
		in.lb	920	920	974	974	974	974	974	974	885	885	797	743	743	885	885	797	743	743		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.25	0.25	0.23	0.23	0.23	0.23	0.3	0.3	0.25	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23		
		in.lb	2.21	2.21	2.04	2.04	2.04	2.04	2.66	2.66	2.21	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																			
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																			
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																			
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	14																			
		in.lb/arcmin	123.91																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	2500																			
		lb _r	562																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	2000																			
		lb _r	450																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	100																			
		in.lb	885																			
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.075	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63																			
滿載效率 Efficiency at Full loading	η	%	93																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																			
重量 Weight	m	kg	2.8																			
		lb _m	6.17																			

KVH090 1-stage

		1-stage													
減速比 Ratio	i		4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	145	155	145	135	115	105	105	145	135	115	105	105	
		in.lb	1283	1372	1283	1195	1018	929	929	1283	1195	1018	929	929	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	435	465	435	405	345	315	315	435	405	345	315	315	
		in.lb	3850	4116	3850	3585	3053	2788	2788	3850	3585	3053	2788	2788	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	261	279	261	243	207	189	189	261	243	207	189	189	
		in.lb	2310	2469	2310	2151	1832	1673	1673	2310	2151	1832	1673	1673	
最大扭矩 Maximum Torque	T_{2a}	Nm	290	310	290	270	230	210	210	290	270	230	210	210	
		in.lb	2567	2744	2567	2390	2036	1859	1859	2567	2390	2036	1859	1859	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000												
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000												
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.51	0.46	0.44	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	
		in.lb	4.51	4.07	3.89	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7												
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5												
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3												
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	35												
		in.lb/arcmin	309.77												
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4500												
		lb _r	1012												
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3500												
		lb _a	787												
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	228												
		in.lb	2018												
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.52	0.45	0.42	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65												
滿載效率 Efficiency at Full loading	η	%	95												
工作溫度 Operating Temperature		°C	-25 to +90												
		F	-13 to +194												
潤滑方式 Lubrication			Synthetic Lubrication Grease												
安裝方式 Mounting Position			Any Directions												
防護等級 Protection Class			IP 65												
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)												
重量 Weight	m	kg	5.4												
		lb _m	119.05												

KVH090 2-stage

		2-stage																				
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	145	145	155	155	155	155	155	155	145	135	115	105	105	145	135	115	105	105		
		in.lb	1283	1283	1372	1372	1372	1372	1372	1372	1372	1283	1195	1018	929	929	1283	1195	1018	929		
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	435	435	465	465	465	465	465	465	435	405	345	315	315	435	405	345	315	315		
		in.lb	3850	3850	4116	4116	4116	4116	4116	4116	4116	3850	3585	3053	2788	2788	3850	3585	3053	2788		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	261	261	279	279	279	279	279	279	261	165	165	151	151	261	165	165	151	151		
		in.lb	2310	2310	2469	2469	2469	2469	2469	2469	2310	1460	1460	1336	1336	2310	1460	1460	1336	1336		
最大扭矩 Maximum Torque	T_{2a}	Nm	290	290	310	310	310	310	310	310	290	270	230	210	210	290	270	230	210	210		
		in.lb	2567	2567	2744	2744	2744	2744	2744	2744	2567	2390	2036	1859	1859	2567	2390	2036	1859	1859		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.47	0.47	0.47	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38		
		in.lb	4.16	4.16	4.16	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																			
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																			
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																			
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	35																			
		in.lb/arcmin	309.77																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4500																			
		lb _r	1012																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3500																			
		lb _a	787																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	261																			
		in.lb	2310																			
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.44	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65																			
滿載效率 Efficiency at Full loading	η	%	94																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																			
重量 Weight	m	kg	6.8																			
		lb _m	14.99																			

KVH120 1-stage

		1-stage													
減速比 Ratio	i		4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	300	320	300	290	255	220	220	300	290	255	220	220	
		in.lb	2655	2832	2655	2567	2257	1947	1947	2655	2567	2257	1947	1947	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	900	960	900	870	765	660	660	900	870	765	660	660	
		in.lb	7966	8497	7966	7700	6771	5841	5841	7966	7700	6771	5841	5841	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	540	576	540	522	459	396	396	540	522	459	396	396	
		in.lb	4779	5098	4779	4620	4062	3505	3505	4779	4620	4062	3505	3505	
最大扭矩 Maximum Torque	T_{2a}	Nm	600	640	600	580	510	440	440	600	580	510	440	440	
		in.lb	5310	5664	5310	5133	4514	3894	3894	5310	5133	4514	3894	3894	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000												
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000												
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.25	1.15	1.11	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	
		in.lb	11.06	10.18	9.82	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7												
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5												
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3												
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	90												
		in.lb/arcmin	796.56												
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7800												
		lb _r	1753												
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6000												
		lb _a	1349												
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	450												
		in.lb	3983												
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	2.74	2.71	2.71	2.62	2.62	2.62	2.57	2.57	2.57	2.57	2.57	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68												
滿載效率 Efficiency at Full loading	η	%	95												
工作溫度 Operating Temperature		°C	-25 to +90												
		F	-13 to +194												
潤滑方式 Lubrication			Synthetic Lubrication Grease												
安裝方式 Mounting Position			Any Directions												
防護等級 Protection Class			IP 65												
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)												
重量 Weight	m	kg	20												
		lb _m	44.09												

KVH120 2-stage

		2-stage																		
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200
額定輸出扭矩 Nominal Output Torque		Nm	300	300	320	320	320	320	320	320	300	290	255	220	220	300	290	255	220	220
		in.lb	2655	2655	2832	2832	2832	2832	2832	2832	2655	2567	2257	1947	1947	2655	2567	2257	1947	1947
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	900	900	960	960	960	960	960	960	900	612	765	660	660	900	612	765	660	660
		in.lb	7966	7966	8497	8497	8497	8497	8497	8497	7966	5417	6771	5841	5841	7966	5417	6771	5841	5841
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	540	540	576	576	576	576	576	576	540	367	459	396	396	540	367	459	396	396
		in.lb	4779	4779	5098	5098	5098	5098	5098	5098	4779	3248	4062	3505	3505	4779	3248	4062	3505	3505
最大扭矩 Maximum Torque	T_{2a}	Nm	600	600	640	640	640	640	640	640	600	580	510	440	440	600	580	510	440	440
		in.lb	5310	5310	5664	5664	5664	5664	5664	5664	5310	5133	4514	3894	3894	5310	5133	4514	3894	3894
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																	
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																	
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.28	1.28	1.28	1.22	1.17	1.17	1.17	1.17	1.22	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
		in.lb	11.33	11.33	1132.89	10.80	10.36	10.36	10.36	10.36	10.80	10.36	10.36	10.36	10.36	10.36	10.36	10.36	10.36	10.36
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																	
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																	
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																	
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	90																	
		in.lb/arcmin	796.56																	
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7800																	
		lb _r	1753																	
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6000																	
		lb _a	1349																	
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	470																	
		in.lb	4160																	
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	1.5	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.49	1.49	1.45	1.45	1.45	1.45	1.45	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68																	
滿載效率 Efficiency at Full loading	η	%	94																	
工作溫度 Operating Temperature		°C	-25 to +90																	
		F	-13 to +194																	
潤滑方式 Lubrication			Synthetic Lubrication Grease																	
安裝方式 Mounting Position			Any Directions																	
防護等級 Protection Class			IP 65																	
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																	
重量 Weight	m	kg	28.8																	
		lb _m	63.49																	

KVH160 1-stage

		1-stage													
減速比 Ratio	i		4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	550	650	610	540	510	440	440	610	540	510	440	440	
		in.lb	4868	5753	5399	4779	4514	3894	3894	5399	4779	4514	3894	3894	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	1650	1950	1830	1620	1530	1320	1320	1830	1620	1530	1320	1320	
		in.lb	14604	17259	16197	14338	13542	11683	11683	16197	14338	13542	11683	11683	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	990	1170	1098	972	918	792	792	1098	972	918	792	792	
		in.lb	8762	10355	9718	8603	8125	7010	7010	9718	8603	8125	7010	7010	
最大扭矩 Maximum Torque	T_{2a}	Nm	1100	1300	1220	1080	1020	880	880	1220	1080	1020	880	880	
		in.lb	9736	11506	10798	9559	9028	7789	7789	10798	9559	9028	7789	7789	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000												
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000												
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
		in.lb	26.55	25.67	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.78	24.78	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7												
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5												
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3												
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	205												
		in.lb/arcmin	1814.39												
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	12000												
		lb _r	2697.60												
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	10000												
		lb _r	2248.00												
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1012												
		in.lb	8957												
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	7.54	7.42	7.42	7.25	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70												
滿載效率 Efficiency at Full loading	η	%	95												
工作溫度 Operating Temperature		°C	-25 to +90												
		F	-13 to +194												
潤滑方式 Lubrication			Synthetic Lubrication Grease												
安裝方式 Mounting Position			Any Directions												
防護等級 Protection Class			IP 65												
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)												
重量 Weight	m	kg	26												
		lb _m	57.32												

KVH160 2-stage

		2-stage																				
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	550	550	650	650	650	650	650	650	610	540	510	440	440	610	540	510	440	440		
		in.lb	4868	4868	5753	5753	5753	5753	5753	5753	5399	4779	4514	3894	3894	5399	4779	4514	3894	3894		
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	1650	1650	1950	1950	1950	1950	1950	1950	1830	1620	1530	1320	1320	1830	1620	1530	1320	1320		
		in.lb	14604	14604	17259	17259	17259	17259	17259	17259	16197	14338	13542	11683	11683	16197	14338	13542	11683	11683		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	990	990	1170	1170	1170	1170	1170	1170	1098	972	918	792	792	1098	972	918	792	792		
		in.lb	8762	8762	10355	10355	10355	10355	10355	10355	9718	8603	8125	7010	7010	9718	8603	8125	7010	7010		
最大扭矩 Maximum Torque	T_{2a}	Nm	1100	1100	1300	1300	1300	1300	1300	1300	1220	1080	1020	880	880	1220	1080	1020	880	880		
		in.lb	9736	9736	11506	11506	11506	11506	11506	11506	10798	9559	9028	7789	7789	10798	9559	9028	7789	7789		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.45	3.45	3.45	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
		in.lb	30.53	30.53	30.53	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																			
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																			
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																			
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	205																			
		in.lb/arcmin	1814.39																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	12000																			
		lb _r	2697.6																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	10000																			
		lb _r	2248																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1200																			
		in.lb	10620.84																			
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	6.65	6.65	5.81	6.34	5.36	4.08	5.36	4.08	7.4	7.5	7.4	7.4	7.3	7.3	7.3	7.3	7.3			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70																			
滿載效率 Efficiency at Full loading	η	%	94																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																			
重量 Weight	m	kg	31																			
		lb _m	68.34																			

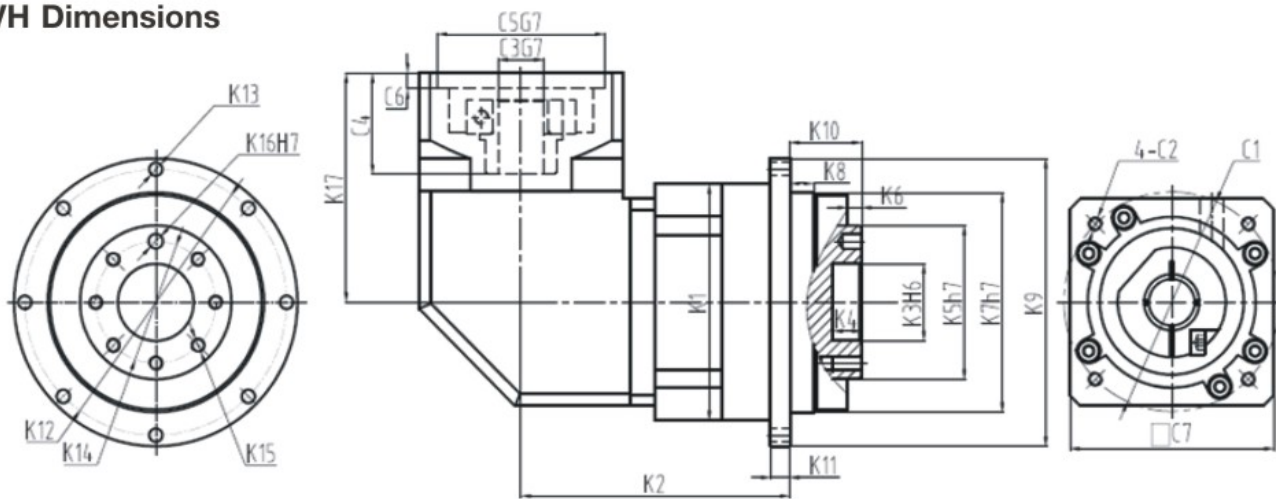
KVH205 1-stage

		1-stage													
減速比 Ratio	i		4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	1250	1200	1000	1000	1000	910	910	1000	1000	1000	910	910	
		in.lb	11063	10621	8851	8851	8851	8054	8054	8851	8851	8851	8054	8054	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	3750	3600	3000	3000	3000	2730	2730	3000	3000	3000	2730	2730	
		in.lb	33190	31863	26552	26552	26552	24162	24162	26552	26552	26552	24162	24162	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2160	1800	1800	1800	1638	1638	1800	1800	1800	1638	1638	
		in.lb	19914	19118	15931	15931	15931	14497	14497	15931	15931	15931	14497	14497	
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2400	2000	2000	2000	1820	1820	2000	2000	2000	1820	1820	
		in.lb	22127	21242	17701	17701	17701	16108	16108	17701	17701	17701	16108	16108	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000												
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000												
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.9	3.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
		in.lb	34.52	33.63	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7												
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5												
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3												
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	560												
		in.lb/arcmin	4956.39												
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	18000												
		lb _r	4046												
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	15000												
		lb _r	3372												
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2050												
		in.lb	18144												
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	23.67	22.75	22.75	22.48	22.59	22.59	22.55	22.55	22.55	22.55	22.55	22.55	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72												
滿載效率 Efficiency at Full loading	η	%	95												
工作溫度 Operating Temperature		°C	-25 to +90												
		F	-13 to +194												
潤滑方式 Lubrication			Synthetic Lubrication Grease												
安裝方式 Mounting Position			Any Directions												
防護等級 Protection Class			IP 65												
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)												
重量 Weight	m	kg	41												
		lb _m	90.39												

KVH205 2-stage

		2-stage																		
減速比 Ratio	i		16	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200
額定輸出扭矩 Nominal Output Torque		Nm	1250	1250	1200	1200	1200	1200	1200	1200	1000	1000	1000	910	910	1000	1000	1000	910	910
		in.lb	11063	11063	10621	10621	10621	10621	10621	10621	10621	8851	8851	8851	8054	8054	8851	8851	8851	8054
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	3750	3750	3600	3600	3600	3600	3600	3600	3000	3000	3000	2730	2730	3000	3000	3000	2730	2730
		in.lb	33190	33190	31863	31863	31863	31863	31863	31863	26552	26552	26552	24162	24162	26552	26552	26552	24162	24162
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2250	2160	2160	2160	2160	2160	2160	1800	1800	1800	1638	1638	1800	1800	1800	1638	1638
		in.lb	19914	19914	19118	19118	19118	19118	19118	19118	15931	15931	15931	14497	14497	15931	15931	15931	14497	14497
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2500	2400	2400	2400	2400	2400	2400	2000	2000	2000	1820	1820	2000	2000	2000	1820	1820
		in.lb	22127	22127	21242	21242	21242	21242	21242	21242	17701	17701	17701	16108	16108	17701	17701	17701	16108	16108
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2000																	
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000																	
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.45	3.45	3.45	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
		in.lb	30.53	30.53	30.53	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																	
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																	
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																	
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	560																	
		in.lb/arcmin	4956.39																	
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	18000																	
		lb _r	4046.4																	
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	15000																	
		lb _r	3372																	
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2629																	
		in.lb	23268.4903																	
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	7.42	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72																	
滿載效率 Efficiency at Full loading	η	%	94																	
工作溫度 Operating Temperature		°C	-25 to +90																	
		F	-13 to +194																	
潤滑方式 Lubrication			Synthetic Lubrication Grease																	
安裝方式 Mounting Position			Any Directions																	
防護等級 Protection Class			IP 65																	
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																	
重量 Weight	m	kg	49																	
		lb _m	108.03																	

KVH Dimensions



Model	KVH070		KVH090		KVH120		KVH160		KVH205	
Stage	1	2	1	2	1	2	1	2	1	2
K1	Φ70		Φ97		Φ120		Φ160		Φ210	
K2	83.5	107.5	111.9	133.7	135.2	177	166.5	227.5	198	249.5
K3	Φ20		31.5		40		50		80	
K4	8		12		12		12		22.5	
K5	Φ40		Φ63		Φ80		Φ100		Φ160	
K6	3		6		6		6		6	
K7	Φ64		Φ90		Φ110		Φ140		Φ200	
K8	7		10		10		14.6		15	
K9	Φ86		Φ118		Φ145		Φ179		Φ247	
K10	19.5		30		29		38		56	
K11	5		8		10		10		112	
K12	Φ79		Φ109		Φ135		Φ168		Φ233	
K13	8-Φ4.5		8-Φ5.5		8-Φ5.5		12-Φ6.6		12-Φ9	
K14	Φ31.5		Φ50		Φ63		Φ80		Φ125	
K15	7-M5X8		7-M6X12		11-M6X15		11-M8X18		11-M10X17	
K16	Φ5X6		Φ6X7		Φ6X7		Φ8X8		Φ10X10	
K17	82.5		94		140		169		169	
C1	Φ70		Φ90		Φ145		Φ200		Φ200	
C2	M5X12		M6X15		M8X20		M12X25		M12X25	
C3	Φ14		Φ19		Φ24		Φ35		Φ35	
C4	32.1		41.6		61.3		82		82	
C5	Φ50		Φ70		Φ110		Φ114.3		Φ114.3	
C6	6.5		6.5		8		8		8	
C7	65		85		120		175		175	

減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

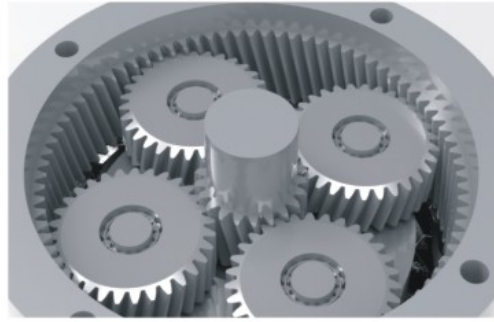
KPG

勁強·精密·可靠

▶ 伺服行星減速機

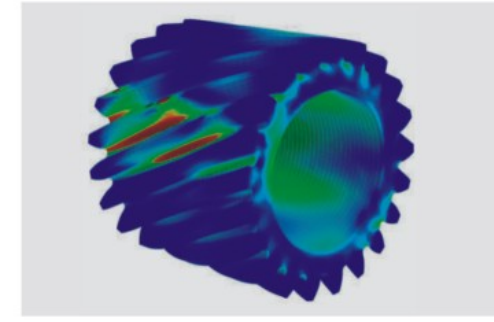
高負載型減速機





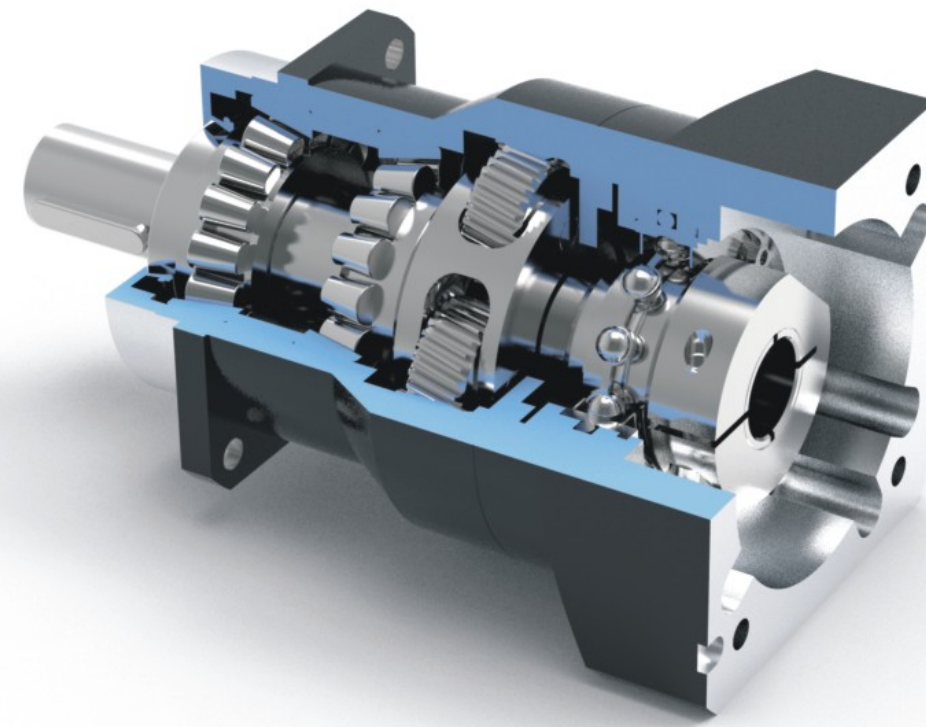
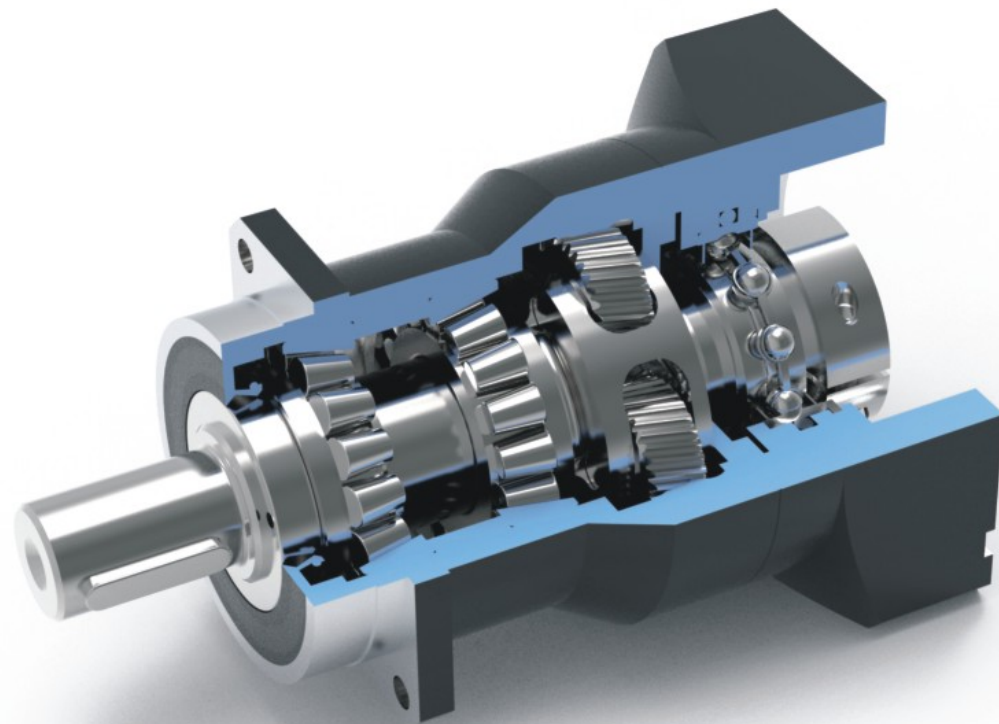
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

KPG070 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	46	52	55	50	50	45	42	42	
		in.lb	407	460	487	443	443	398	372	372	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	138	156	165	150	150	135	126	126	
		in.lb	3603	4073	4308	3917	3917	3525	3290	3290	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	82.8	93.6	99	90	90	81	75.6	75.6	
		in.lb	733	828	876	797	797	717	669	669	
最大扭矩 Maximum Torque	T_{2a}	Nm	92	104	110	100	100	90	84	84	
		in.lb	814	920	974	885	885	797	743	743	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.3	0.27	0.25	0.25	0.25	0.25	0.25	0.25	
		in.lb	2.66	2.39	2.21	2.21	2.21	2.21	2.21	2.21	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	7								
		in.lb/arcmin	61.95								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4300								
		lb _r	967								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3900								
		lb _r	877								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	227								
		in.lb	2009								
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.160	0.140	0.130	0.130	0.130	0.130	0.130	0.130	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	1.6								
		lb _m	3.5								

KPG070 2-stage

		2-stage															
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100		
額定輸出扭矩 Nominal Output Torque		Nm	46	52	55	55	55	55	55	55	50	50	45	42	42		
		in.lb	407	460	487	487	487	487	487	487	443	443	398	372	372		
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	138	156	165	165	165	165	165	165	150	150	135	126	126		
		in.lb	1221	1381	1460	1460	1460	1460	1460	1460	1328	1328	1195	1115	1115		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	82.8	93.6	99	99	99	99	99	99	90	90	81	75.6	75.6		
		in.lb	733	828	876	876	876	876	876	876	797	797	717	669	669		
最大扭矩 Maximum Torque	T_{2a}	Nm	92	104	110	110	110	110	110	110	100	100	90	84	84		
		in.lb	814	920	974	974	974	974	974	974	885	885	797	743	743		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	4000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.27	0.27	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25		
		in.lb	2.39	2.39	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	7														
		in.lb/arcmin	61.95														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4300														
		lb _r	967														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3900														
		lb _r	877														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	227														
		in.lb	2009														
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.127	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.075	0.064	0.064		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 58														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	1.9														
		lb _m	4.2														

KPG090 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	125	145	155	145	135	115	105	105	
		in.lb	1106	1283	1372	1283	1195	1018	929	929	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	375	435	465	435	405	345	315	315	
		in.lb	3319	3850	4116	3850	3585	3053	2788	2788	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	225	261	279	261	243	207	189	189	
		in.lb	1991	2310	2469	2310	2151	1832	1673	1673	
最大扭矩 Maximum Torque	T_{2a}	Nm	250	290	310	290	270	230	210	210	
		in.lb	2213	2567	2744	2567	2390	2036	1859	1859	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.46	0.41	0.39	0.35	0.35	0.35	0.35	0.35	
		in.lb	4.07	3.63	3.45	3.10	3.10	3.10	3.10	3.10	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	14								
		in.lb/arcmin	123.91								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7000								
		lb _r	1574								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6300								
		lb _a	1416								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	440								
		in.lb	3894								
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	3.5								
		lb _m	7.3								

KPG090 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	125	145	155	155	155	155	155	155	145	135	115	105	105			
		in.lb	1106	1283	1372	1372	1372	1372	1372	1372	1283	1195	1018	929	929			
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	375	435	465	465	465	465	465	465	435	405	345	315	315			
		in.lb	3319	3850	4116	4116	4116	4116	4116	4116	3850	3585	3053	2788	2788			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	225	261	279	279	279	279	279	279	261	243	207	189	189			
		in.lb	1991	2310	2469	2469	2469	2469	2469	2469	2310	2151	1832	1673	1673			
最大扭矩 Maximum Torque	T_{2a}	Nm	250	290	310	310	310	310	310	310	290	270	230	210	210			
		in.lb	2213	2567	2744	2744	2744	2744	2744	2744	2567	2390	2036	1859	1859			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.41	0.41	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35			
		in.lb	3.63	3.63	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	14															
		in.lb/arcmin	123.91															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7000															
		lb _r	1574															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6300															
		lb _a	1416															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	440															
		in.lb	3894															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.440	0.440	0.390	0.39	0.39	0.390	0.39	0.39	0.39	0.39	0.44	0.44	0.44			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 60															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	3.8															
		lb _m	9.9															

KPG120 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	210	300	320	300	290	255	220	220	
		in.lb	1859	2655	2832	2655	2567	2257	1947	1947	
故障停止扭矩 Emergency Stop Torque	T_{2Not}	Nm	630	900	960	900	870	765	660	660	
		in.lb	5576	7966	8497	7966	7700	6771	5841	5841	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	378	540	576	540	522	459	396	396	
		in.lb	3346	4779	5098	4779	4620	4062	3505	3505	
最大扭矩 Maximum Torque	T_{2a}	Nm	420	600	640	600	580	510	440	440	
		in.lb	3717	5310	5664	5310	5133	4514	3894	3894	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.05	0.95	0.91	0.88	0.88	0.88	0.88	0.88	
		in.lb	9.29	8.41	8.05	7.79	7.79	7.79	7.79	7.79	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	26								
		in.lb/arcmin	230.12								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	10000								
		lb _r	2248								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	9000								
		lb _a	2023								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	843								
		in.lb	7461								
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	3.25	2.74	2.71	2.62	2.62	2.62	2.62	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	8.1								
		lb _m	17.8								

KPG120 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	210	300	320	320	320	320	320	320	300	290	255	220	220			
		in.lb	1859	2655	2832	2832	2832	2832	2832	2832	2655	2567	2257	1947	1947			
故障停止扭矩 Emergency Stop Torque	T_{2Not}	Nm	630	900	960	960	960	960	960	960	900	870	765	660	660			
		in.lb	5576	7966	8497	8497	8497	8497	8497	8497	7966	7700	6771	5841	5841			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	378	540	576	576	576	576	576	576	540	522	459	396	396			
		in.lb	3346	4779	5098	5098	5098	5098	5098	5098	4779	4620	4062	3505	3505			
最大扭矩 Maximum Torque	T_{2a}	Nm	420	600	640	640	640	640	640	640	600	580	510	440	440			
		in.lb	3717	5310	5664	5664	5664	5664	5664	5664	5310	5133	4514	3894	3894			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.95	0.95	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
		in.lb	8.41	8.41	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	26															
		in.lb/arcmin	230.12															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	10000															
		lb _r	2248															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	9000															
		lb _a	2023															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	843															
		in.lb	7461															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	2.580	1.500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.49	1.49	1.45	1.45			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	9															
		lb _m	19.8															

KPG160 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	350	550	650	610	540	510	440	440	
		in.lb	3098	4868	5753	5399	4779	4514	3894	3894	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	1050	1650	1950	1830	1620	1530	1320	1320	
		in.lb	9293	14604	17259	16197	14338	13542	11683	11683	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	630	990	1170	1098	972	918	792	792	
		in.lb	5576	8762	10355	9718	8603	8125	7010	7010	
最大扭矩 Maximum Torque	T_{2a}	Nm	700	1100	1300	1220	1080	1020	880	880	
		in.lb	6195	9736	11506	10798	9559	9028	7789	7789	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.4	
		in.lb	23.01	22.13	21.24	21.24	21.24	21.24	21.24	21.24	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	52								
		in.lb/arcmin	460.24								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	19000								
		lb _r	4271								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	17000								
		lb _a	3822								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2222								
		in.lb	19666								
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.31	7.54	7.42	7.25	7.25	7.14	7.14	7.14	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	15.5								
		lb _m	34.1								

KPG160 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	350	550	650	650	650	650	650	650	610	540	510	440	440			
		in.lb	3098	4868	5753	5753	5753	5753	5753	5753	5399	4779	4514	3894	3894			
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	1050	1650	1950	1950	1950	1950	1950	1950	1830	1620	1530	1320	1320			
		in.lb	9293	14604	17259	17259	17259	17259	17259	17259	16197	14338	13542	11683	11683			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	630	990	1170	1170	1170	1170	1170	1170	1098	972	918	792	792			
		in.lb	5576	8762	10355	10355	10355	10355	10355	10355	9718	8603	8125	7010	7010			
最大扭矩 Maximum Torque	T_{2a}	Nm	700	1100	1300	1300	1300	1300	1300	1300	1220	1080	1020	880	880			
		in.lb	6195	9736	11506	11506	11506	11506	11506	11506	11506	10798	9559	9028	7789	7789		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5			
		in.lb	23.01	23.01	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13	22.13			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	52															
		in.lb/arcmin	460.24															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	19000															
		lb _r	4271															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	17000															
		lb _a	3822															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2222															
		in.lb	19666															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.350	6.650	4.08	4.08	4.08	5.360	4.08	5.36	4.08	4.08	7.4	7.3	7.3			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	28															
		lb _m	61.6															

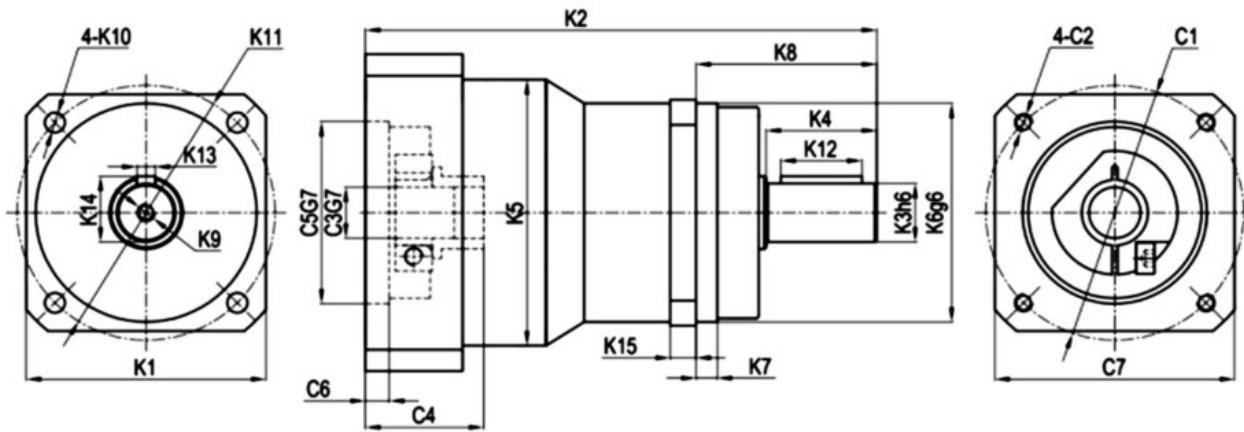
KPG205 1-stage

		1-stage									
減速比 Ratio	i		3	4	5	6	7	8	9	10	
額定輸出扭矩 Nominal Output Torque		Nm	1250	1200	1000	1000	1000	1000	910	910	
		in.lb	11063	10621	8851	8851	8851	8851	8054	8054	
故障停止扭矩 Emergency Stop Torque	T_{2st}	Nm	3750	3600	3000	3000	3000	3000	2730	2730	
		in.lb	33190	31863	26552	26552	26552	26552	24162	24162	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2160	1800	1800	1800	1800	1638	1638	
		in.lb	19914	19118	15931	15931	15931	15931	14497	14497	
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2400	2000	2000	2000	2000	1820	1820	
		in.lb	22127	21242	17701	17701	17701	17701	16108	16108	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2500								
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000								
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.5	3.4	3.2	3.2	3.2	3.2	3.2	3.2	
		in.lb	30.98	30.09	28.32	28.32	28.32	28.32	28.32	28.32	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤5								
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤3								
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤1								
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	138								
		in.lb/arcmin	1221.40								
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	24000								
		lb _r	5395								
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	22000								
		lb _a	4946								
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2907								
		in.lb	25729								
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	28.98	23.67	22.75	22.48	22.48	22.59	22.59	22.55	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67								
滿載效率 Efficiency at Full loading	η	%	97								
工作溫度 Operating Temperature		°C	-25 to +90								
		F	-13 to +194								
潤滑方式 Lubrication			Synthetic Lubrication Grease								
安裝方式 Mounting Position			Any Directions								
防護等級 Protection Class			IP 65								
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)								
重量 Weight	m	kg	39								
		lb _m	85.8								

KPG205 2-stage

		2-stage																
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100			
額定輸出扭矩 Nominal Output Torque		Nm	1250	1200	1000	1000	1000	1000	1000	1000	1000	1000	1000	910	910			
		in.lb	11063	10621	8851	8851	8851	8851	8851	8851	8851	8851	8851	8054	8054			
故障停止扭矩 Emergency Stop Torque	T_{2st}	Nm	3750	3600	3000	3000	3000	3000	3000	3000	3000	3000	3000	2730	2730			
		in.lb	33190	31863	26552	26552	26552	26552	26552	26552	26552	26552	26552	24162	24162			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2160	1800	1800	1800	1800	1800	1800	1800	1800	1800	1638	1638			
		in.lb	19914	19118	15931	15931	15931	15931	15931	15931	15931	15931	15931	14497	14497			
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2400	2000	2000	2000	2000	2000	2000	2000	2000	2000	1820	1820			
		in.lb	22127	21242	17701	17701	17701	17701	17701	17701	17701	17701	17701	16108	16108			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2500															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4			
		in.lb	22.13	22.13	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24			
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	138															
		in.lb/arcmin	1221.40															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	24000															
		lb _r	5395															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	22000															
		lb _a	4946															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2907															
		in.lb	25729															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.350	7.420	7.14	7.14	7.14	7.140	7.14	7.14	7.14	7.14	7.54	7.42	7.42			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 67															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	40															
		lb _m	88															

KPG Dimensions



Model	KPG070		KPG090		KPG120		KPG160		KPG205	
	1	2	1	2	1	2	1	2	1	2
K1	62		75		100		140		180	
	2.441		2.953		3.937		5.512		7.087	
K2	155	161	195	229	240	261	295	310	315.5	360
	6.102	6.339	7.677	9.016	9.449	10.276	11.614	12.205	12.421	14.173
K3	16		22		32		40		55	
	0.630		0.866		1.260		1.575		2.165	
K4	28		36		58		82		82	
	1.102		1.417		2.283		3.228		3.228	
K5	70		90		120		160		205	
	2.756		3.543		4.724		6.299		8.071	
K6	60		70		90		130		160	
	2.362		2.756		3.543		5.118		6.299	
K7	5		6		8		10		12	
	0.197		0.236		0.315		0.394		0.472	
K8	48		56		88		112		112	
	1.890		2.205		3.465		4.409		4.409	
K9	M5X12		M6X16		M10X22		M12X25		M20X40	
K10	5.5		7		9		11		13	
	0.217		0.256		0.354		0.433		0.512	
K11	68		85		120		165		215	
	2.677		3.346		4.724		6.496		8.465	
K12	25		32		50		65		65	
	0.984		1.260		1.969		2.559		2.559	
K13	5		6		10		12		16	
	0.197		0.236		0.394		0.472		0.630	
K14	18		24.5		35		43		59	
	0.709		0.965		1.378		1.693		2.323	
K15	6		7		10		12		15	
	0.236		0.276		0.394		0.472		0.591	
C1	90	70	145	90	145	90	200	145	215	200
	3.543	2.756	5.709	3.543	5.709	3.543	7.874	5.709	8.465	7.874
C2	M6X15	M5X12	M8X20	M6X15	M8X20	M6X15	M12X25	M8X20	M12X25	M12X25
C3	19	14	24	19	24	19	35	24	42	35
	0.748	0.551	0.945	0.748	0.945	0.748	1.378	0.945	1.654	1.378
C4	41.6	32.1	61.3	41.6	61.3	41.6	82	61.3	82	82
	1.638	1.264	2.413	1.638	2.413	1.638	3.228	2.413	3.228	3.228
C5	70	50	110	70	110	70	114.3	110	180	114.3
	2.756	1.969	4.331	2.756	4.331	2.756	4.500	4.331	7.087	4.500
C6	6.5	6.5	8	6.5	8	6.5	8	8	8	8
	0.256	0.256	0.315	0.256	0.315	0.256	0.315	0.315	0.315	0.315
C7	80	70	120	89	120	89	175	120	190	175
	3.150	2.756	4.724	3.504	4.724	3.504	6.890	4.724	7.480	6.890

減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

KVG

勁強·精密·可靠

▶ 伺服行星減速機

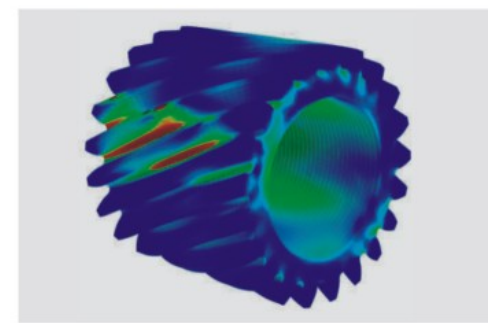
高負載型減速機





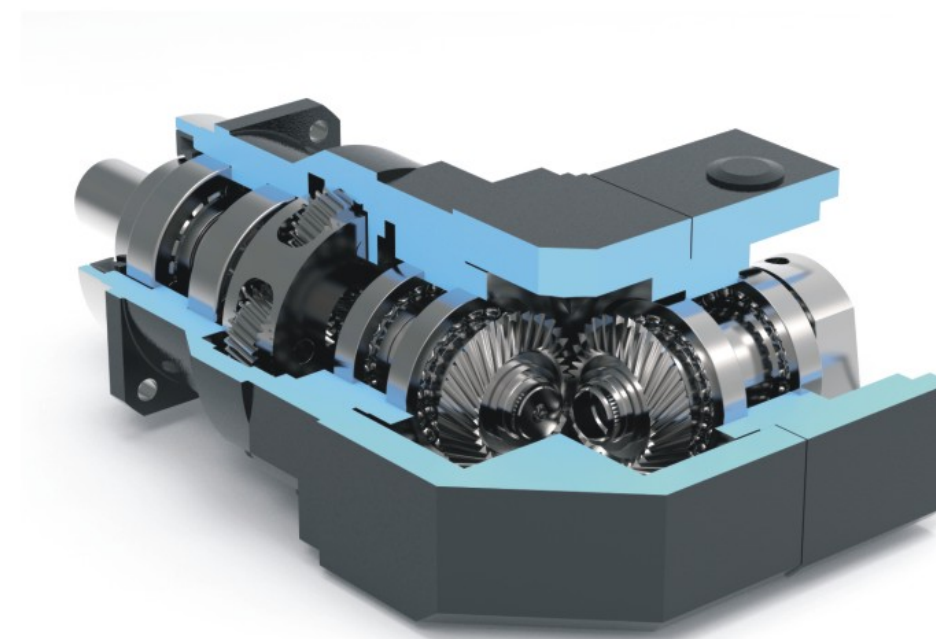
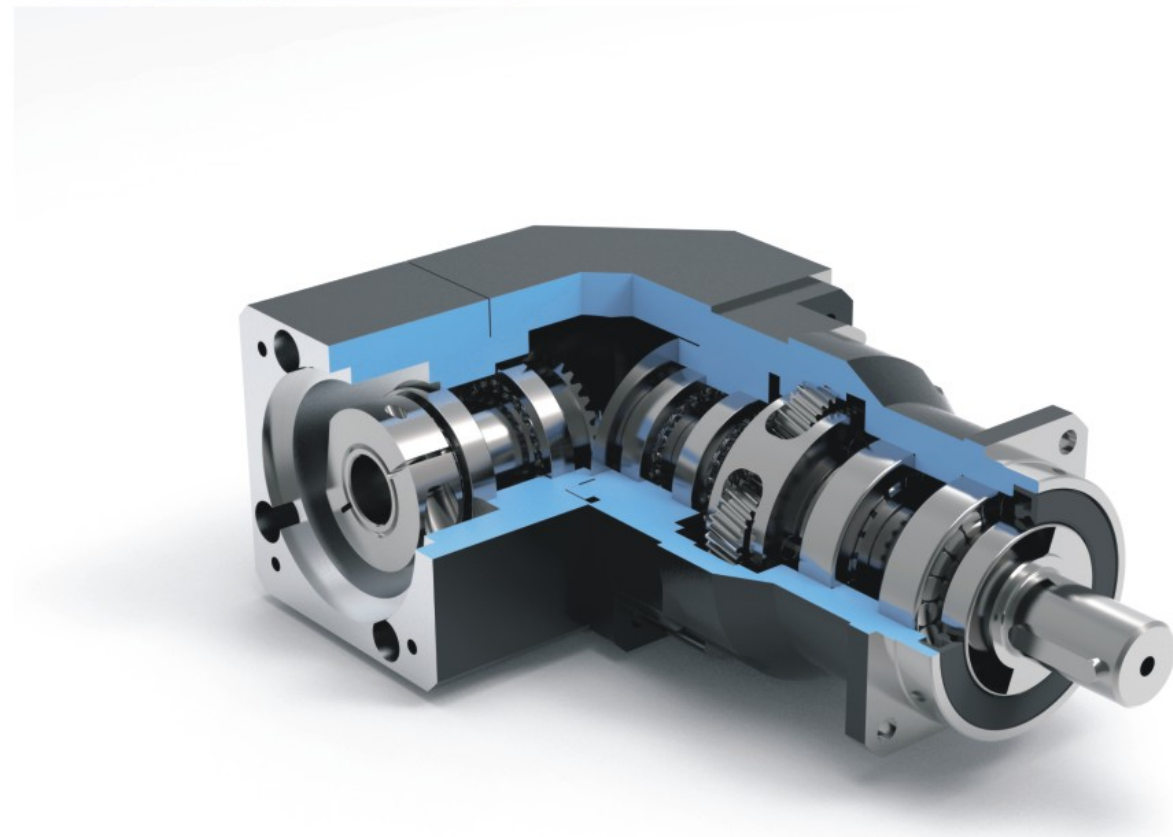
Helical Gear System Technology

採用螺旋齒輪與滾針軸承設計，齒輪嚙合更加緊密，整體結構緊湊度提升超過60%。同時實現高轉矩容量、低噪音運轉、背隙降低與傳動效率全面提升。



Super Gear Grinding and Heat Treatment Technology

採用全球領先的齒輪研磨技術，優化齒輪齒形；搭配高階滲碳淬火熱處理，可達成高精度與高齒輪硬度的性能。



Master CageSpindle Planetary Carrier

專利 Master CageSpindle 一體式行星架，顯著提升行星齒輪箱的結構強度、運轉穩定性與剛性。採用合成油脂潤滑，可實現齒輪箱全使用壽命的免維護運轉。



Dynamic Balance Clamping and Sealing System

減速機輸入端動平衡夾持設計，具備完美同心度，可降低背隙並提升減速機運轉穩定性。超精密密封系統提供潤滑脂防漏保護，支援減速機達到IP65防護等級。

KVG070 1-stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	46	52	55	50	50	45	42	42	50	50	45	42	42		
		in.lb	407	460	487	443	443	398	372	372	443	443	398	372	372		
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	138	156	165	150	150	135	126	126	150	150	135	126	126		
		in.lb	1221	1381	1460	1328	1328	1195	1115	1115	1328	1328	1195	1115	1115		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	83	94	99	90	90	81	76	76	90	90	81	76	76		
		in.lb	733	828	876	797	797	717	669	669	797	797	717	669	669		
最大扭矩 Maximum Torque	T_{2a}	Nm	92	104	110	100	100	90	84	84	100	100	90	84	84		
		in.lb	814	920	974	885	885	797	743	743	885	885	797	743	743		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.35	0.32	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
		in.lb	3.10	2.83	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	7														
		in.lb/arcmin	61.95														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4300														
		lb _r	967														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3900														
		lb _r	877														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	227														
		in.lb	2009														
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.16	0.093	0.078	0.07	0.069	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	4.6														
		lb _m	10.14														

KVG070 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	46	52	55	55	55	55	55	55	50	50	45	42	42	50	50	45	42	42	
		in.lb	407	460	487	487	487	487	487	487	443	443	398	372	372	443	443	398	372	372	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	138	156	165	165	165	165	165	165	150	150	135	126	126	150	150	135	126	126	
		in.lb	1221	1381	1460	1460	1460	1460	1460	1460	1328	1328	1195	1115	1115	1328	1328	1195	1115	1115	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	83	94	99	99	99	99	99	99	90	90	81	76	76	90	90	81	76	76	
		in.lb	733	828	876	876	876	876	876	876	797	797	717	669	669	797	797	717	669	669	
最大扭矩 Maximum Torque	T_{2a}	Nm	92	104	110	110	110	110	110	110	100	100	90	84	84	100	100	90	84	84	
		in.lb	814	920	974	974	974	974	974	974	885	885	797	743	743	885	885	797	743	743	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.26	0.26	0.23	0.3	0.23	0.23	0.26	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
		in.lb	2.30	2.30	2.04	2.66	2.04	2.04	2.30	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	7																		
		in.lb/arcmin	61.95																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	4300																		
		lb _r	967																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	3900																		
		lb _r	877																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	577.5																		
		in.lb	5111																		
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.088	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.075	0.064	0.064	0.064	0.064	0.064	0.064		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 63																		
滿載效率 Efficiency at Full loading	η	%	92																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	7																		
		lb _m	15.43																		

KVG090 1-stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	125	145	155	145	135	115	105	105	145	135	115	105	105	
		in.lb	1106	1283	1372	1283	1195	1018	929	929	1283	1195	1018	929	929	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	375	435	465	435	405	345	315	315	435	405	345	315	315	
		in.lb	3319	3850	4116	3850	3585	3053	2788	2788	3850	3585	3053	2788	2788	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	225	261	279	261	243	207	189	189	261	243	207	189	189	
		in.lb	1991	2310	2469	2310	2151	1832	1673	1673	2310	2151	1832	1673	1673	
最大扭矩 Maximum Torque	T_{2a}	Nm	250	290	310	290	270	230	210	210	290	270	230	210	210	
		in.lb	2213	2567	2744	2567	2390	2036	1859	1859	2567	2390	2036	1859	1859	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.51	0.46	0.44	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		in.lb	4.51	4.07	3.89	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	14													
		in.lb/arcmin	123.91													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7000													
		lb _r	1574													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6300													
		lb _a	1416													
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	440													
		in.lb	3894													
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.61	0.52	0.45	0.42	0.40	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	7.4													
		lb _m	16.31													

KVG090 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	125	145	155	155	155	155	155	155	145	135	115	105	105	145	135	115	105	105	
		in.lb	1106	1283	1372	1372	1372	1372	1372	1372	1372	1283	1195	1018	929	929	1283	1195	1018	929	929
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	375	435	465	465	465	465	465	465	435	405	345	315	315	435	405	345	315	315	
		in.lb	3319	3850	4116	4116	4116	4116	4116	4116	3850	3585	3053	2788	2788	3850	3585	3053	2788	2788	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	225	261	279	279	279	279	279	279	261	243	207	189	189	261	243	207	189	189	
		in.lb	1991	2310	2469	2469	2469	2469	2469	2469	2310	2151	1832	1673	1673	2310	2151	1832	1673	1673	
最大扭矩 Maximum Torque	T_{2a}	Nm	250	290	310	310	310	310	310	310	290	270	230	210	210	290	270	230	210	210	
		in.lb	2213	2567	2744	2744	2744	2744	2744	2744	2567	2390	2036	1859	1859	2567	2390	2036	1859	1859	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	0.47	0.47	0.47	0.47	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
		in.lb	4.16	4.16	4.16	4.16	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	14																		
		in.lb/arcmin	123.91																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	7000																		
		lb _r	1574																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	6300																		
		lb _a	1416																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	700																		
		in.lb	6195																		
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	0.5	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 65																		
滿載效率 Efficiency at Full loading	η	%	92																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	9.8																		
		lb _m	21.61																		

KVG120 1-stage

		1-stage														
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20	
額定輸出扭矩 Nominal Output Torque		Nm	210	300	320	300	290	255	220	220	300	290	255	220	220	
		in.lb	1859	2655	2832	2655	2567	2257	1947	1947	2655	2567	2257	1947	1947	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	630	900	960	900	870	765	660	660	900	870	765	660	660	
		in.lb	5576	7966	8497	7966	7700	6771	5841	5841	7966	7700	6771	5841	5841	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	378	540	576	540	522	459	396	396	540	522	459	396	396	
		in.lb	3346	4779	5098	4779	4620	4062	3505	3505	4779	4620	4062	3505	3505	
最大扭矩 Maximum Torque	T_{2a}	Nm	420	600	640	600	580	510	440	440	600	580	510	440	440	
		in.lb	3717	5310	5664	5310	5133	4514	3894	3894	5310	5133	4514	3894	3894	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000													
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000													
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.25	1.15	1.11	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	
		in.lb	11.06	10.18	9.82	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7													
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5													
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3													
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	26													
		in.lb/arcmin	230.12													
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	10000													
		lb _r	2248													
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	9000													
		lb _a	2023													
最大傾覆力矩 Max. Tilting Moment	M_{2XMax}	Nm	843													
		in.lb	7461													
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	3.25	2.74	2.71	2.71	2.71	2.62	2.62	2.57	2.57	2.57	2.57	2.57	2.57	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68													
滿載效率 Efficiency at Full loading	η	%	95													
工作溫度 Operating Temperature		°C	-25 to +90													
		F	-13 to +194													
潤滑方式 Lubrication			Synthetic Lubrication Grease													
安裝方式 Mounting Position			Any Directions													
防護等級 Protection Class			IP 65													
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)													
重量 Weight	m	kg	12.1													
		lb _m	26.68													

KVG120 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	210	300	320	320	320	320	320	320	300	290	255	220	220	300	290	255	220	220	
		in.lb	1859	2655	2832	2832	2832	2832	2832	2832	2655	2567	2257	1947	1947	2655	2567	2257	1947	1947	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	630	900	960	960	960	960	960	960	900	870	765	660	660	900	870	765	660	660	
		in.lb	5576	7966	8497	8497	8497	8497	8497	8497	7966	7700	6771	5841	5841	7966	7700	6771	5841	5841	
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	378	540	576	576	576	576	576	576	540	522	459	396	396	540	522	459	396	396	
		in.lb	3346	4779	5098	5098	5098	5098	5098	5098	4779	4620	4062	3505	3505	4779	4620	4062	3505	3505	
最大扭矩 Maximum Torque	T_{2a}	Nm	420	600	640	640	640	640	640	640	600	580	510	440	440	600	580	510	440	440	
		in.lb	3717	5310	5664	5664	5664	5664	5664	5664	5310	5133	4514	3894	3894	5310	5133	4514	3894	3894	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	1.28	1.28	1.28	1.22	1.17	1.17	1.17	1.17	1.22	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	
		in.lb	11.33	11.33	11.33	10.80	10.36	10.36	10.36	10.36	10.80	10.36	10.36	10.36	10.36	10.36	10.36	10.36	10.36	10.36	
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7																		
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5																		
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3																		
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	26																		
		in.lb/arcmin	230.12																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	10000																		
		lb _r	2248																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	9000																		
		lb _a	2023																		
最大傾覆力矩 Max. Tilting Moment	M_{2XMax}	Nm	938																		
		in.lb	8302																		
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	2.58	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.49	1.49	1.45	1.45	1.45	1.45	1.45		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 68																		
滿載效率 Efficiency at Full loading	η	%	92																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	14																		
		lb _m	30.86																		

KVG160 1-stage

		1-stage																
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20			
額定輸出扭矩 Nominal Output Torque		Nm	350	550	650	610	540	510	440	440	610	540	510	440	440			
		in.lb	3098	4868	5753	5399	4779	4514	3894	3894	5399	4779	4514	3894	3894			
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	1050	1650	1950	1830	1620	1530	1320	1320	1830	1620	1530	1320	1320			
		in.lb	9293	14604	17259	16197	14338	13542	11683	11683	16197	14338	13542	11683	11683			
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	630	990	1170	1098	972	918	792	792	1098	972	918	792	792			
		in.lb	5576	8762	10355	9718	8603	8125	7010	7010	9718	8603	8125	7010	7010			
最大扭矩 Maximum Torque	T_{2a}	Nm	700	1100	1300	1220	1080	1020	880	880	1220	1080	1020	880	880			
		in.lb	6195	9736	11506	10798	9559	9028	7789	7789	10798	9559	9028	7789	7789			
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000															
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000															
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	2.40	2.40	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44		
		in.lb	21.24	21.24	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.60	21.60		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7															
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5															
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3															
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	52															
		in.lb/arcmin	460.24															
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	19000															
		lb _r	4271															
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	17000															
		lb _a	3822															
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2222															
		in.lb	19666															
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.31	7.54	7.42	7.42	7.25	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70															
滿載效率 Efficiency at Full loading	η	%	95															
工作溫度 Operating Temperature		°C	-25 to +90															
		F	-13 to +194															
潤滑方式 Lubrication			Synthetic Lubrication Grease															
安裝方式 Mounting Position			Any Directions															
防護等級 Protection Class			IP 65															
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)															
重量 Weight	m	kg	25															
		lb _m	55.12															

KVG160 2-stage

		2-stage																				
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200		
額定輸出扭矩 Nominal Output Torque		Nm	350	550	650	650	650	650	650	650	650	610	540	510	440	440	610	540	510	440	440	
		in.lb	3098	4868	5753	5753	5753	5753	5753	5753	5753	5399	4779	4514	3894	3894	5399	4779	4514	3894	3894	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	1050	1650	1950	1950	1950	1950	1950	1950	1830	1620	1530	1320	1320	1830	1620	1530	1320	1320		
		in.lb	9293	14604	17259	17259	17259	17259	17259	17259	16197	14338	13542	11683	11683	16197	14338	13542	11683	11683		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	630	990	1170	1170	1170	1170	1170	1170	1098	972	918	792	792	1098	972	918	792	792		
		in.lb	5576	8762	10355	10355	10355	10355	10355	10355	9718	8603	8125	7010	7010	9718	8603	8125	7010	7010		
最大扭矩 Maximum Torque	T_{2a}	Nm	700	1100	1300	1300	1300	1300	1300	1300	1220	1080	1020	880	880	1220	1080	1020	880	880		
		in.lb	6195	9736	11506	11506	11506	11506	11506	11506	10798	9559	9028	7789	7789	10798	9559	9028	7789	7789		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	3000																			
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	6000																			
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.45	3.45	3.45	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
		in.lb	30.53	30.53	30.53	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																			
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																			
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																			
扭轉剛性 Torsional Rigidity	C_{D21}	Nm/arcmin	52																			
		in.lb/arcmin	460.24																			
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	19000																			
		lb _r	4271																			
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	17000																			
		lb _a	3822																			
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1243.2																			
		in.lb	11003																			
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.35	6.65	5.81	6.34	5.36	4.08	5.36	4.08	7.4	7.5	7.4	7.4	7.3	7.3	7.3	7.3	7.3			
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 70																			
滿載效率 Efficiency at Full loading	η	%	92																			
工作溫度 Operating Temperature		°C	-25 to +90																			
		F	-13 to +194																			
潤滑方式 Lubrication			Synthetic Lubrication Grease																			
安裝方式 Mounting Position			Any Directions																			
防護等級 Protection Class			IP 65																			
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																			
重量 Weight	m	kg	30																			
		lb _m	66.14																			

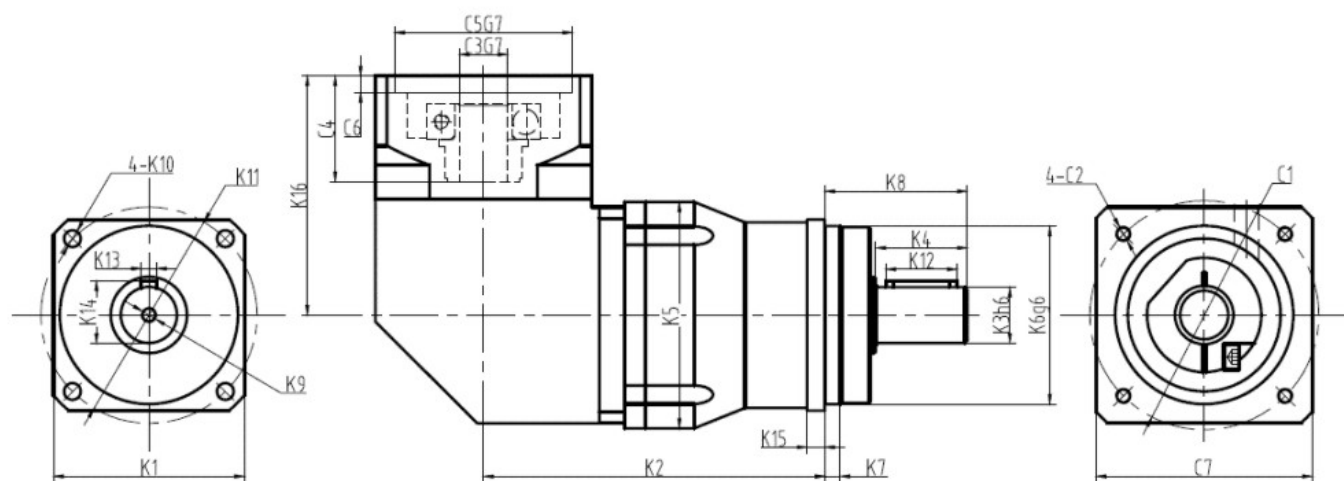
KVG205 1-stage

		1-stage															
減速比 Ratio	i		3	4	5	6	7	8	9	10	12	14	16	18	20		
額定輸出扭矩 Nominal Output Torque		Nm	1250	1200	1000	1000	1000	1000	910	910	1000	1000	1000	910	910		
		in.lb	11063	10621	8851	8851	8851	8851	8851	8054	8054	8851	8851	8851	8054	8054	
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	3750	3600	3000	3000	3000	3000	2730	2730	3000	3000	3000	2730	2730		
		in.lb	33190	31863	26552	26552	26552	26552	24162	24162	26552	26552	26552	24162	24162		
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2160	1800	1800	1800	1800	1638	1638	1800	1800	1800	1638	1638		
		in.lb	19914	19118	15931	15931	15931	15931	14497	14497	15931	15931	15931	14497	14497		
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2400	2000	2000	2000	2000	1820	1820	2000	2000	2000	1820	1820		
		in.lb	22127	21242	17701	17701	17701	17701	16108	16108	17701	17701	17701	16108	16108		
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2500														
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000														
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.90	3.80	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60		
		in.lb	34.52	33.63	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86	31.86		
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤7														
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤5														
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤3														
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	138														
		in.lb/arcmin	1221.40														
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	24000														
		lb _r	5395														
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	22000														
		lb _a	4946														
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	2907														
		in.lb	25729														
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	28.98	23.67	22.75	22.75	22.48	22.59	22.59	22.55	22.55	22.55	22.55	22.55	22.55		
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72														
滿載效率 Efficiency at Full loading	η	%	95														
工作溫度 Operating Temperature		°C	-25 to +90														
		F	-13 to +194														
潤滑方式 Lubrication			Synthetic Lubrication Grease														
安裝方式 Mounting Position			Any Directions														
防護等級 Protection Class			IP 65														
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)														
重量 Weight	m	kg	49														
		lb _m	108.03														

KVG205 2-stage

		2-stage																			
減速比 Ratio	i		15	20	25	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	
額定輸出扭矩 Nominal Output Torque		Nm	1250	1200	1000	1000	1000	1000	1000	1000	1000	1000	1000	910	910	1000	1000	1000	910	910	
		in.lb	11063	10621	8851	8851	8851	8851	8851	8851	8851	8851	8851	8851	8054	8054	8851	8851	8851	8054	8054
故障停止扭矩 Emergency Stop Torque	T_{2Mot}	Nm	3750	3600	3000	3000	3000	3000	3000	3000	3000	3000	3000	2730	2730	3000	3000	3000	2730	2730	
		in.lb	33190	31863	26552	26552	26552	26552	26552	26552	26552	26552	26552	26552	24162	24162	26552	26552	26552	24162	24162
最大加速扭矩 Maximum Acceleration Torque	T_{2B}	Nm	2250	2160	1800	1800	1800	1800	1800	1800	1800	1800	1800	1638	1638	1800	1800	1800	1638	1638	
		in.lb	19914	19118	15931	15931	15931	15931	15931	15931	15931	15931	15931	14497	14497	15931	15931	15931	14497	14497	
最大扭矩 Maximum Torque	T_{2a}	Nm	2500	2400	2000	2000	2000	2000	2000	2000	2000	2000	2000	1820	1820	2000	2000	2000	1820	1820	
		in.lb	22127	21242	17701	17701	17701	17701	17701	17701	17701	17701	17701	16108	16108	17701	17701	17701	16108	16108	
額定輸入轉速 Permitted Average Input Speed	n_{1N}	rpm	2500																		
最大輸入轉速 Maximum Input Speed	n_{1Max}	rpm	4000																		
平均無負載運轉扭矩 Mean No Load Running Torque	T_{012}	Nm	3.45	3.45	3.45	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
		in.lb	30.53	30.53	30.53	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21
標準間隙 P1 Standard Backlash P1	j_i	arcmin	≤9																		
低間隙 P0 Reduced Low Backlash P0	j_i	arcmin	≤7																		
超低間隙 PU Ultra Low backlash PU	j_i	arcmin	≤5																		
扭轉剛性 Torsional Rigidity	C_{121}	Nm/arcmin	138																		
		in.lb/arcmin	1221.40																		
最大徑向負載 Maximum Radial Load	F_{2AMax}	N	24000																		
		lb _r	5395																		
最大軸向負載 Maximum Axial Load	F_{2OMax}	N	22000																		
		lb _a	4946																		
最大傾覆力矩 Max. Tilting Moment	M_{2KMax}	Nm	1365																		
		in.lb	12081																		
質量慣性力矩 Mass Moment of Inertia	j_i	kgcm ²	12.35	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	
運轉噪音等級 Operating Noise Level	L_{PA}	dB(A)	< 72																		
滿載效率 Efficiency at Full loading	η	%	92																		
工作溫度 Operating Temperature		°C	-25 to +90																		
		F	-13 to +194																		
潤滑方式 Lubrication			Synthetic Lubrication Grease																		
安裝方式 Mounting Position			Any Directions																		
防護等級 Protection Class			IP 65																		
使用壽命 Service lifetime	L_n	h	20,000(Continuous Operation)																		
重量 Weight	m	kg	55																		
		lb _m	121.25																		

KVG Dimensions



Model	KVG070		KVG090		KVG120		KVG160		KVG205	
Stage	1	2	1	2	1	2	1	2	1	2
K1	Φ62		Φ75		Φ100		Φ140		Φ180	
K2	112	135.7	134.2	165.5	173	214.8	200.5	261.5	244.5	291.5
K3	Φ16		Φ22		Φ32		Φ40		Φ55	
K4	28		36		58		82		82	
K5	Φ70		Φ90		Φ120		Φ160		Φ205	
K6	Φ60		Φ70		Φ90		Φ130		Φ160	
K7	5		6		8		10		12	
K8	48		56		88		112		112	
K9	M5X12		M6X16		M10X22		M12X25		M20X40	
K10	Φ5.5		Φ6.5		Φ9		Φ114.3		Φ13	
K11	Φ68		Φ85		Φ120		Φ165		Φ215	
K12	22		32		50		65		65	
K13	5		6		10		12		16	
K14	18		24.5		35		43		59	
K15	6		7		10		12		15	
C1	Φ70		Φ90		Φ145		Φ200		Φ200	
C2	M5X12		M6X15		M8X20		M12X25		M12X25	
C3	Φ14		Φ19		Φ24		Φ35		Φ35	
C4	32.1		41.6		61.3		82		82	
C5	Φ50		Φ70		Φ110		Φ114.3		Φ114.3	
C6	6.5		6.5		8		8		8	
C7	65		85		120		175		175	

減速機尺寸可依所配馬達法蘭調整。
詳細圖面方案請透過官網 KDP (科峰設計程式)
線上取得: www.kofon-motion.com

安裝說明

Installation Instructions

正確的安裝、使用和維護減速機是保證機械設備正常運行的重要環節。因此，在您安裝科峰行星減速機時，請務必嚴格按照下面的安裝使用相關事項，認真的裝配和使用。

The correct installation, use and maintenance of the gearboxes, are important parts to ensure the normal operation of mechanical equipment, therefore, when you install a KOFON gearboxes, be sure to strictly follow the install related matters to assembly and use seriously.

原動機的連接

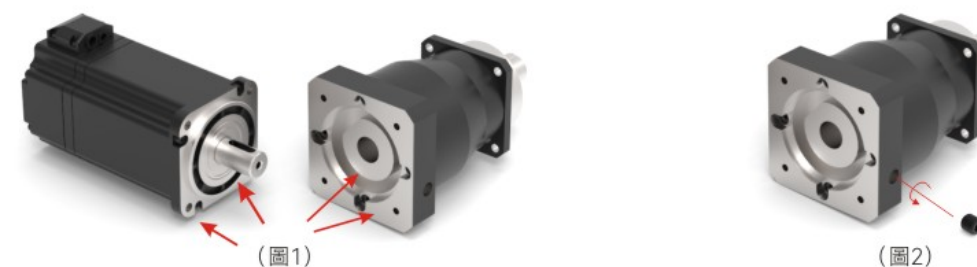
The Connection to the Prime Engine

第一步 安裝前確認電機和減速機是否完好無損，並且嚴格檢查電機與減速機相連接的各部位尺寸是否匹配，主要指電機的凸臺尺寸與減速機凹槽尺寸及配合公差。

Step1. Before installation confirm the motor and gearboxes are intact, and strictly check whether the size of the various parts of the motor and gearboxes connected match, mainly refers to the size of the spigot of the motor and gearboxes notch size and fit tolerance.

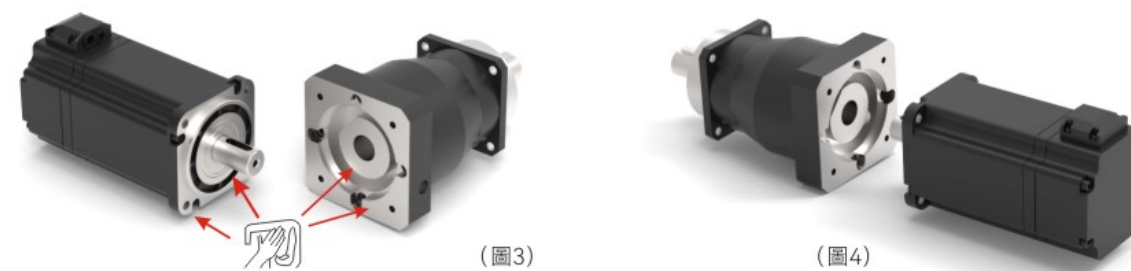
第二步 取下減速機法蘭外側工藝孔上的防塵蓋，調整減速機輸入軸彈性夾緊裝置使其緊固螺栓與工藝孔對齊，插入內六角扳手鬆開緊固螺栓，此步驟適合筒夾式鎖緊機構聯。

Step 2. Remove the dust cover on the technological bores of the gearboxes flange outer. Adjust input shaft elastic clamping device so that the fastening bolt is aligned with the technological bore. Insert hex wrench to loosen the fastening bolts. This step is suitable for tube clip-locking mechanism coupling.



第三步 將電機輸出軸、定位凸臺及減速機連接部位的防銹油用汽油或鋅鈉水擦試淨，其目的是保證連接的緊密性及運轉的靈活性，並且防止不必要的磨損。將電機與減速機自然連接，連接時必須保證電機輸出軸與減速機輸入軸同軸度一致，且二者外側法蘭平行。同軸度不一致，會導致電機軸斷或減速機齒輪磨損。另外，在安裝時，嚴禁用鐵錘等擊打，防止軸向力或徑向力過大損壞軸承或齒輪。

Step 3. Then wipe the anti-rust oil on the motor output shaft, the positioning spigot and gearboxes coupling parts with gasoline or zinc sodium water. Its purpose is to ensure that the coupling tightness and operation flexibility, and to prevent unnecessary wear. Naturally connect the motor and gearboxes, ensure that the concentricity of the gear output shaft and the motor of the input shaft is the same, and both the outside of the flange parallel. If the concentricity is inconsistency, will cause broken motor shaft and gearboxes gear wear, further, when installed, do not hit with a hammer and other objects, to prevent axial force is so large that damage the bearing of gear.

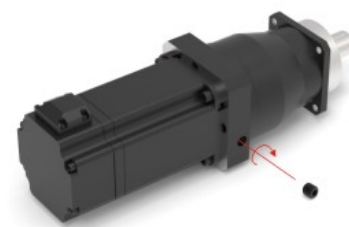


第四步 在電機與減速機連接前，請先將電機方位與減速機方位盡量對齊，為保證受力均勻，請先將任意對角位置的安裝螺栓旋上，但不要旋緊，再旋上另外兩個對角位置的安裝螺栓最後逐個旋緊四個安裝螺栓，最後，旋緊緊固螺栓。所有緊固螺栓均需用力矩扳手按標明的固定扭力矩數據進行固定和檢查。

Step 4. Before connecting the motor and gearboxes, please machine of decelerate of motor bearing and azimuth alignment as far as possible, in order to ensure uniform force, please spin on mounting bolts in the any angular position, but do , spin on the other two on the angular position of the mounting bolts and then tighten the four mounting bolts one by one. Finally, tighten the bolts, all fastening bolts are required to use torque wrench fixed torsional moment data indicated to fix and check.



(圖5)



(圖6)

Table 1

	Product Modello	KPE050 KPE-B050 KPLF-B050 KPX-B045 KPH050/KVH050	KPE070/KVE070 KPLN070 KPE-B070/KVE-B070 KPLF-B070 KPX-B065/KVX-B065 KPH070/KVH070 KPG070/KVG070	KPE090/KVE090 KPLN090 KPE-B090/KVE-B090 KPLF-B090 KPX-B085/KVX-B085 KPH090/KVH090 KPG090/KVG090	KPE120/KVE120 KPLN120 KPE-B120/KVE-B120 KPLF-B120 KPX-B115/KVX-B115 KPH120/KVH120 KPG120/KVG120	KPE160/KVE160 KPLN160 KPE-B160/KVE-B160 KPLF-B160 KPX-B142/KVX-B142 KPH160/KVH160 KPG160/KVG160	KPE205/KVE205 KPLN205 KPE-B205/KVE-B205 KPLF-B205 KPX-B180/KVX-B180 KPH205/KVH205 KPG205/KVG205 KPE235 KPLN235 KPE-B235 KPLF-B235 KPX-B220/KVX-B220 KPH255
Tightening Torque	TA (Nm)	4.5	9	15	36	36	81
Bolt Size	Sw(mm)	M4	M5	M6	M8	M8	M10

工作機的連接

The Connection of the Work Machine

與工作機安裝時，應重視傳動中心軸線對中，其誤差不得大於所用聯軸器的使用補償。對中良好能延長使用壽命，並獲得理想的傳動效率，在輸出軸上安裝傳動件時，不允許使用錘子敲擊，通常利用裝配夾具和軸端的內螺紋，用栓塞將傳動件壓入，否則有可能造成減速機內部零件的損壞。最好不採用剛性固定式聯軸器，因該類聯軸器安裝不當，會引起不必要的外加載荷，以造成軸承的早起損壞，嚴重時甚至造成輸出軸的斷裂。

When the installation of the working machine, we should attach importance to the transmission center axis aligned, and the error should not be greater than the amount of coupling the use of compensation. Aligning well can extend the service life and to obtain the desired transmission efficiency, when install transmission parts on the output shaft, not allowed to tap with a hammer, usually use the internal threads of the assembly fixture and shaft end, using bolts pressed into the drive member. Failure to do so may cause damage of the internal parts of the reducer, best not to use steel fixed coupling, because class coupling improper installation will cause unnecessary applied load, and resulting in early bearing damage, serve or even cause the output shaft fracture.

減速機的固定

The Gearboxes Fixing

減速機應牢固地安裝在穩定的基礎或支座上，且冷卻空氣循環流暢。基礎不可靠，運轉時會引起震動及噪聲，並促使軸承及齒輪受損。當傳動聯結件有突出物或採用齒輪、鏈輪傳動時，應考慮加裝防護裝置。安裝就位後，應按次序全面檢查安裝位置的準確性，各緊固件壓緊的可靠性，安裝後應能靈活轉動，運轉應平穩，無沖擊、振動、雜音及滲漏油現象，發現異常應及時排除。

Gearboxes should be securely mounted on a stable foundation or bearing , and the cooling air circulation flowing.unstable fondation will cause vibration and noise during operation, and promote the bearing and gear damage. When the drive couplings with protrusion or gear and sprocket, you should consider the installation of protective devices,after installation, you should have a in -order comprehensive check of the accuracy of the installation location and the reliability of fastenersrs clamping. The machine should be flexible rotationafter installation. The operation should be smooth without shock, vibration. Noise and oil leakage phenomenon. Abnormor should be immediately removed.

伺服行星減速機

維護保養說明

減速機於使用期間，應定期檢查潤滑脂狀況，若發現油脂混入雜質或已變質，須立即更換。

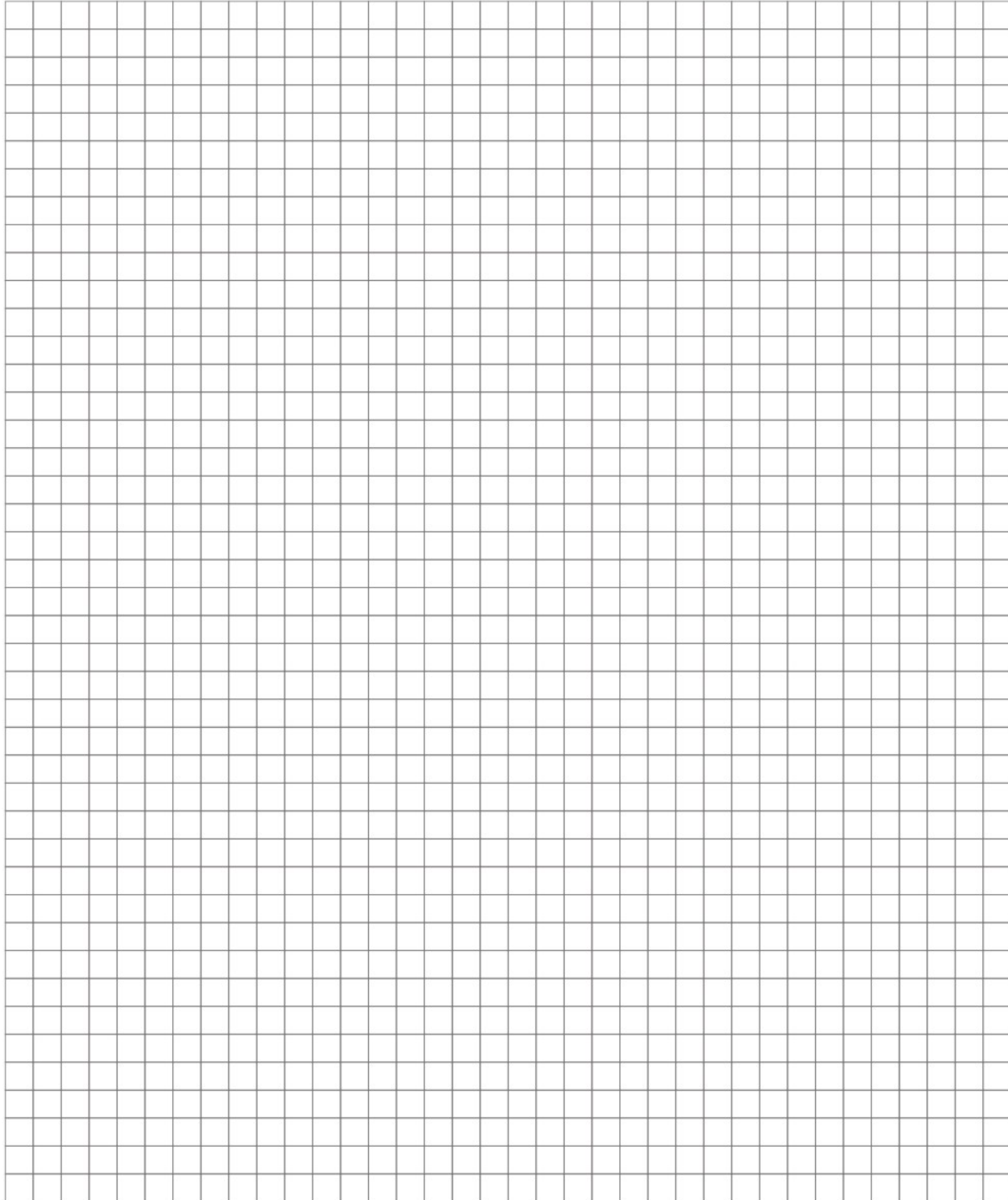
一般情況下，長期連續運轉的減速機，建議依運轉時間每 20,000 小時或每隔一年更換新潤滑脂；間歇使用的減速機，重新啟用前也應檢查潤滑脂狀態。補充潤滑建議由專業廠商執行，並依實際運轉狀況決定潤滑間隔與補充量。若舊潤滑脂無法完全清除，應適度限制新潤滑脂的注入量，避免過度潤滑；若潤滑間隔較長，建議直接更換全部潤滑脂。油脂填充量建議為內部空間的 1/3，若輸入轉速較低，可適度增加，但不得超過內部空間的 1/2。

減速機輸出軸回轉部位採用唇形油封（TC 型）密封，油封更換與否，以是否有油脂洩漏為判斷依據。間歇使用的減速機，重新啟用前應檢查密封狀況，確認是否需要更換油封；更換時僅需拆下對應的油封座即可。

運轉過程中，若發現油溫升超過 90，或出現異常噪音，應立即停止使用，檢查並排除故障後，方可重新啟動。

用戶應建立完善的使用與保養規範，並詳細記錄減速機的運轉狀況與檢修問題，確保上述規定確實執行。

Technical Memo



Technical Memo

