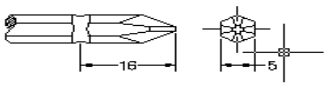
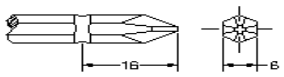
# ※主 要 技 術 參 數

| 機　　型 | | SKD-7000L | SKD-7200L | SKD-7800L | SKD-7800LF |
|---|---|---|---|---|---|
| 輸入電壓 | | DC 24V / 32V | | | |
| 額定功率 | | 50W | | | |
| 扭 力 | (kgf.cm) | 5~18 | 7~24 | 8~30 | 2~10 |
| | (Lbf.in) | 4.34~15.58 | 6.11~20.8 | 6.9~26.02 | 1.77~8.67 |
| | (N.m) | 0.49~1.76 | 0.69~2.35 | 0.78~2.94 | 0.2~0.98 |
| 扭力精度 (%) | | ±3% | | | |
| 扭 力 調 整 | | 無段式 | | | |
| 空轉速 n0: (R.p.m) | HI | 1000 | 750 | 530 | 2000 |
| | LO | 700 | 520 | 350 | - |
| 適用螺絲直徑 (mm) | 機械牙 | 2.0~3.5 | 2.6~4.0 | 3.0~5.0 | 2.0~3.0 |
| | 自攻牙 | 2.0~3.0 | 2.6~3.5 | 3.0~4.0 | 2.0~2.6 |
| 重　量 (g) | | 600 | | | |
| 長　度 (mm) | | 260 | | | |
| 適用扭力固定環 | | KC-2、KC-2S | | | |
| 適用電動起子控制器 | | SKP-32HL | | | |
| 適用起子架 | | KH-2、(KC & KH-1) | | | |
| 適用起子頭 | |  HEX 5mm, | |  HEX 6.35mm | |

* 1N.m=10.2Kgf.cm　1N.m=8.85Lbf.in

# ※標　准　配　件

1・ 起子頭（ＢＩＴ）型號：　NO. 00#　適用於直徑 1.3~1.8mm 螺絲

NO. 0#　適用於直徑 1.8~2.0mm 螺絲

NO. 1#　適用於直徑 2.0~2.6mm 螺絲

NO. 2#　適用於直徑 3.0~4.0mm 螺絲

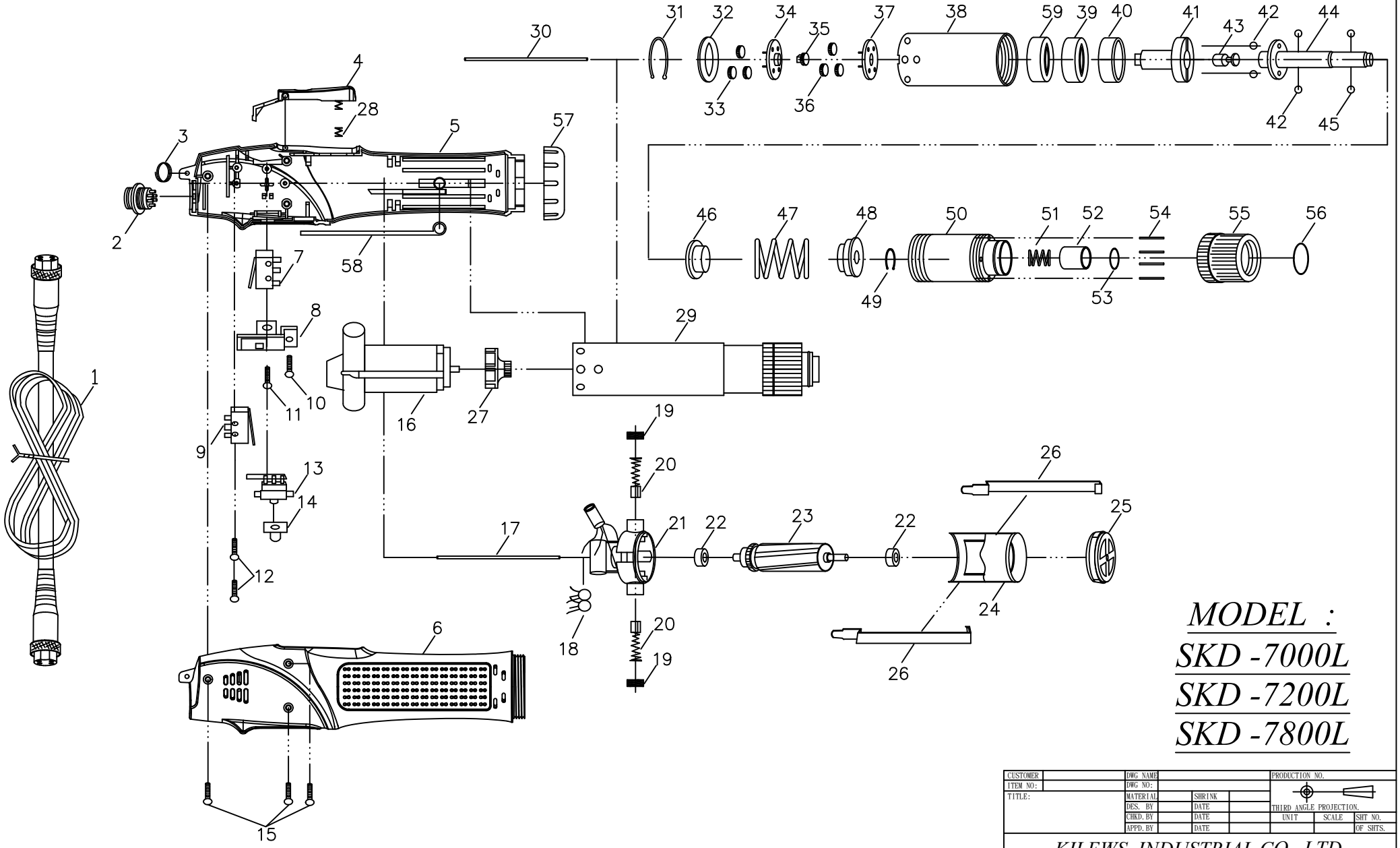
SKD-7000L　配附 BIT　1# & 2#　各１支

SKD-7200L　配附 BIT　1# & 2#　各１支

SKD-7800L　配附 BIT　2#　2 支

SKD-7800LF　配附 BIT　1# & 2#　各１支

2・ 起子吊簧(30cm)一條。




*MODEL :*

*SKD -7000L*

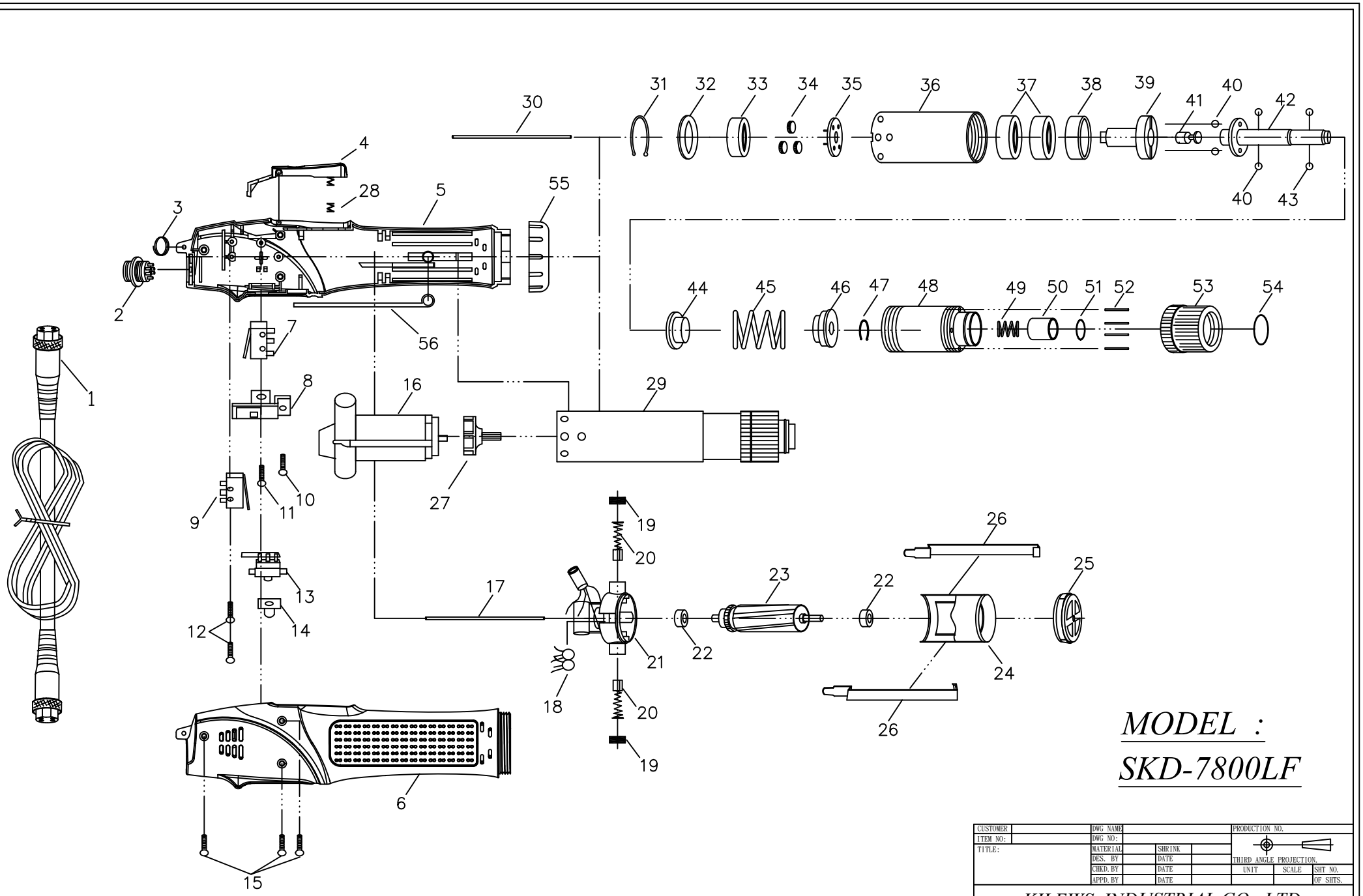
*SKD -7200L*

*SKD -7800L*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CUSTOMER | | DWG NAME | | | PRODUCTION NO. | | |
| ITEM NO: | | DWG NO: | | | | | |
| TITLE: | | MATERIAL | | SHRINK | THIRD ANGLE PROJECTION. | | |
| | | DES. BY | | DATE | | | |
| | | CHKD. BY | | DATE | UNIT | SCALE | SHT NO. |
| | | APPD. BY | | DATE | | | OF SHTS. |

*KILEWS INDUSTRIAL CO., LTD.*

| NO | PARTS NO | PARTS NAME-E | PARTS NAME-C | Q'ty | NO | PARTS NO | PARTS NAME-E | PARTS NAME-C | Q'ty |
|---|---|---|---|---|---|---|---|---|---|
| 1 | AA50001 | CORD ASSEMBLY 2M | 電源線 2M | 1 | | GI28444 | IRON WASHER-7200L,7800L | 齒輪固定片-7200L,7800L | 1 |
| 2 | PZ50160 | CONNECTOR | 六芯插座 | 1 | 33 | GH20241 | IDLE GEAR FOR "7000L" | 游星齒輪(7000L) | 3 |
| 3 | CJ20011 | SUSPENSION RING | 起子吊環 | 1 | | GH91232 | IDLE GEAR FOR "7200L" | 游星齒輪(7200L) | 3 |
| 4 | CC70010 | TRIGGER ASSEMBLY | 手按開關半成品 | 1 | | GH92231 | IDLE GEAR FOR "7800L" | 游星齒輪(7800L) | 4 |
| | CC70011 | TRIGGER ASSEMBLY-ESD | 手按開關半成品-ESD | 1 | 34 | GG21231 | GEAR SEAT FOR "7000L" | 上齒盤(7000L) | 1 |
| 5 | CB71031-6 | HOUSING-UNDERSIDE | 外殼下蓋 | 1 | | GG91242-1 | GEAR SEAT FOR "7200L" | 上齒盤(7200L) | 1 |
| | CB71031-7 | HOUSING-UNDERSIDE-ESD | 外殼下蓋-ESD | 1 | | GG92241-1 | GEAR SEAT FOR "7800L" | 上齒盤(7800L) | 1 |
| 6 | CA71201-6 | HOUSING-UPSIDE | 外殼上蓋 | 1 | 35 | G20102 | CENTRAL GEAR FOR "7000L" | 中心齒(7000L) | 1 |
| | CA71201-7 | HOUSING-UPSIDE-ESD | 外殼上蓋-ESD | 1 | 36 | GH20241 | IDLE GEAR FOR "7000L" | 游星齒輪(7000L) | 3 |
| 7 | HB91061 | SHUT OFF SWITCH | 剎車開關 | 1 | | GH91232-1 | IDLE GEAR FOR "7200L" | 游星齒輪(7200L) | 3 |
| 8 | CE90101-1 | SWITCH BASE | 三合一開關架 | 1 | | GH92231-1 | IDLE GEAR FOR "7800L" | 游星齒輪(7800L) | 4 |
| 9 | HB50061 | START SWITCH | 啟動開關 | 1 | 37 | GG21231 | GEAR SEAT FOR "7000L" | 下齒盤(7000L) | 1 |
| 10 | CH90121 | SCREW | 螺絲 | 1 | | GG91272-1 | GEAR SEAT FOR "7200L" | 下齒盤(7200L) | 1 |
| 11 | CH90131 | SCREW | 螺絲 | 1 | | GG92271-1 | GEAR SEAT FOR "7800L" | 下齒盤(7800L) | 1 |
| 12 | CH90151-1 | SCREW | 螺絲 | 2 | 38 | GA21241 | GEAR CASE FOR "7000L" | 上離合器筒(7000L) | 1 |
| 13 | HA28071F | CHANGEOVER SWITCH | 正反開關 | 1 | | GA35241 | GEAR CASE FOR "7200L&7800L" | 上離合器筒(7200L&7800L) | 1 |
| 14 | CI60213 | CHANGEOVER SWITCH CAP-7000L | 正反開關帽蓋(7000L) | 1 | 39 | GN21251 | MAIN BEARING | 離合器主軸承 | 1 |
| | CI60214 | CHANGEOVER SWITCH CAP-7200L | 正反開關帽蓋(7200L) | 1 | 40 | GW21531 | IRON RING | 鐵墊圈 | 1 |
| | CI60212 | CHANGEOVER SWITCH CAP-7800L | 正反開關帽蓋(7800L) | 1 | 41 | GC31321 | CAM | 上離合器頭 | 1 |
| 15 | CH20102 | SCREW | 螺絲 | 3 | 42 | GP30351 | STELL BALLS(4mm) | 跳脫&酒杯鋼珠(4mm) | 4 |
| 16 | MO70051-3 | MOTOR ASSEMBLY | 馬達整組 | 1 | 43 | GU30370 | STOP PILOT "LA,LAD" | 酒杯(LA,LAD) | 1 |
| 17 | MI31611 | PILOT ROD | 開關引導棒 | 1 | | GU30371 | STOP PILOT(LB) | 酒杯(LB) | 1 |
| 18 | EB33610-2 | CERAMICS CAPACITOR | 陶瓷電容 | 1 | 44 | GD31351A | SHAFT FOR "A"TYPE | 傳動軸 5.0mm | 1 |
| 19 | MD20151 | BRUSH CAP | 碳刷蓋 | 2 | | GD31353B | SHAFT FOR "B"TYPE | 傳動軸 6.35mm | 1 |
| 20 | MC71411 | CARBON | 碳刷 | 2 | | GD31351AD | SHAFT FOR "AD"TYPE | 傳動軸 5.0mm | 1 |
| 21 | ML70531 | MOTOR TOP COVER | 碳刷座半成品 | 1 | 45 | GP21291A | BIT PILOT FOR HEX 5.0mm | 起子頭帽鋼珠A、AD頭用 | 2 |
| 22 | ME21481 | BALL BEARING | 軸承 | 2 | | GP21291B | BIT PILOT FOR HEX 6.35mm | 起子頭帽鋼珠B頭用 | 2 |
| 23 | MH70571-1 | ARMATURE | 電樞 | 1 | 46 | GF31371 | WARING PLATE-HEX 5.0mm | 扭力推盤-HEX 5.0mm | 1 |
| 24 | MJ90601 | MOTOR YOKE ASSEMBLY | 鐵圈連磁鐵 | 1 | | GF31372 | WARING PLATE-HEX 6.35mm | 扭力推盤-HEX 6.35mm | 1 |
| 25 | MB21521A | MOTOR END COVER | 馬達前蓋 | 1 | 47 | GE90361-7 | WARING SPRING FOR "7000L" | 扭力彈簧(7000L) | 1 |
| 26 | MA21491B | ASSEMBLING SPRING | 馬達固定片 | 2 | | GE90361-7B | WARING SPRING FOR "7200L" | 扭力彈簧(7200L) | 1 |
| 27 | MK21111 | FAN FOR "7000L" | 風扇(7000L) | 1 | | GE90361-7E | WARING SPRING FOR "7800L" | 扭力彈簧(7800L) | 1 |
| | MK91091 | FAN FOR "7200L" | 風扇(7200L) | 1 | 48 | GY21321 | WARING SPRING BASE-LB | 止推盤-LB | 1 |
| | MK92091 | FAN FOR "7800L" | 風扇(7800L) | 1 | | GY31391 | WARING SPRING BASE-LA | 止推盤-LA | 1 |
| 28 | CK28031-1 | TRIGGER SPRING | 壓板彈簧 | 1 | 49 | GK20231B | "C"RING | 傳動軸固定 C環 | 1 |
| 29 | GZ71091A | CLUTCH ASSEMBLY FOR "7000A" | 離合器整組(7000LA) | 1 | 50 | GB21331 | CLUTCH CASE | 下離合器筒 | 1 |
| | GZ71091B | CLUTCH ASSEMBLY FOR "7000B" | 離合器整組(7000LB) | 1 | 51 | GO21341 | BIT SPRING | 起子頭帽彈簧 | 1 |
| | GZ71091AD | CLUTCH ASSEMBLY FOR "7000AD" | 離合器整組(7000LAD) | 1 | 52 | GJ21351 | BIT SLEEVE | 起子頭帽 | 1 |
| | GZ71091-2A | CLUTCH ASSEMBLY FOR "7200A" | 離合器整組(7200LA) | 1 | 53 | GQ21361 | "C"RING | 起子頭帽 C環 | 1 |
| | GZ71091-2B | CLUTCH ASSEMBLY FOR "7200B" | 離合器整組(7200LB) | 1 | 54 | GL21371 | TORQUE ADJUSTING PINS | 扭力調整棒 | 4 |
| | GZ71091-2AD | CLUTCH ASSEMBLY FOR "7200AD" | 離合器整組(7200LAD) | 1 | 55 | GM21381 | TORQUE ADJUSTING RING | 扭力調整環 | 1 |
| | GZ71091-8A | CLUTCH ASSEMBLY FOR "7800A" | 離合器整組(7800LA) | 1 | 56 | GS21391 | "C"RING | 扭力環 C環 | 1 |
| | GZ71091-8B | CLUTCH ASSEMBLY FOR "7800B" | 離合器整組(7800LB) | 1 | 57 | CD22078 | COUPLER | 前鎖環 | 1 |
| | GZ71091-3AD | CLUTCH ASSEMBLY FOR "7800AD" | 離合器整組(7800LAD) | 1 | | CD22078-1 | COUPLER-ESD | 前鎖環-(ESD) | 1 |
| 30 | MI31221-1 | PILOT ROD | 開關引導棒 | 1 | 58 | CH30671-1C | GROUNDING MEANS | 接地線 | 1 |
| 31 | GK21181 | "C"RING | 齒輪固定 C環 | 1 | 59 | GN30442 | MAIN BEARING | 離合器主軸承 | 1 |
| 32 | GI21191 | IRON WASHER-7000L | 齒輪固定片-7000L | 1 | | | | | |




*MODEL :*

*SKD-7800LF*

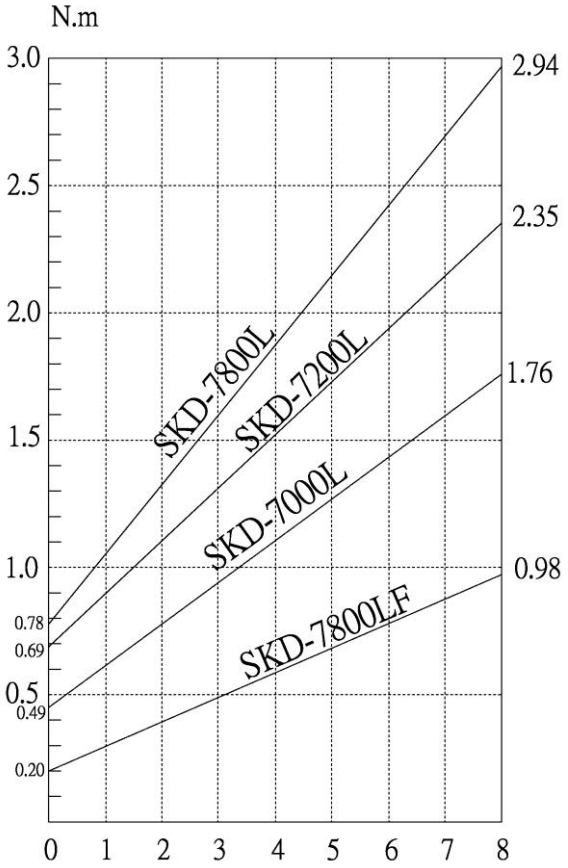
| | | | | | | |
|---|---|---|---|---|---|---|
| CUSTOMER | | DWG NAME | | | PRODUCTION NO. | |
| ITEM NO: | | DWG NO: | | | | |
| TITLE: | | MATERIAL | | SHRINK | THIRD ANGLE PROJECTION. | |
| | | DES. BY | | DATE | | |
| | | CHKD. BY | | DATE | UNIT / SCALE | SHT NO. |
| | | APPD. BY | | DATE | | OF SHTS. |

*KILEWS INDUSTRIAL CO., LTD.*

| NO | PARTS NO | PARTS NAME-E | PARTS NAME-C | Q'ty | NO | PARTS NO | PARTS NAME-E | PARTS NAME-C | Q'ty |
|---|---|---|---|---|---|---|---|---|---|
| 1 | AA50001 | CORD ASSEMBLY 2M | 電源線 2M | 1 | 30 | MI31221-1 | PILOT ROD | 開關引導棒 | 1 |
| 2 | PZ50160 | CONNECTOR | 六芯插座 | 1 | 31 | GK21181 | "C"RING | 齒輪固定 C環 | 1 |
| 3 | CJ20011 | SUSPENSION RING | 起子吊環 | 1 | 32 | GI21191 | IRON WASHER | 齒輪固定片 | 1 |
| 4 | CC70010 | TRIGGER ASSEMBLY | 手按開關半成品 | 1 | 33 | G21301 | SPACER | 快速齒輪墊圈 | 1 |
| | CC70011 | TRIGGER ASSEMBLY-ESD | 手按開關半成品-ESD | 1 | 34 | GH21221-1 | IDLE GEAR | 游星齒輪 | 3 |
| 5 | CB71031-6 | HOUSING-UNDERSIDE | 外殼下蓋 | 1 | 35 | GG21231-1 | GEAR SEAT | 下齒盤 | 1 |
| | CB71031-7 | HOUSING-UNDERSIDE-ESD | 外殼下蓋-ESD | 1 | 36 | GA21241 | GEAR CASE | 上離合器筒 | 1 |
| 6 | CA71201-6 | HOUSING-UPSIDE | 外殼上蓋 | 1 | 37 | GN21251 | MAIN BEARING | 離合器主軸承 | 2 |
| | CA71201-7 | HOUSING-UPSIDE-ESD | 外殼上蓋-ESD | 1 | 38 | GW21531 | IRON RING | 鐵墊圈 | 1 |
| 7 | HB91061 | SHUT OFF SWITCH | 剎車開關 | 1 | 39 | GC31321 | CAM | 上離合器頭 | 1 |
| 8 | CE90101-1 | SWITCH BASE | 三合一開關架 | 1 | 40 | GP30351 | STELL BALLS(4mm) | 跳脫&酒杯鋼珠(4mm) | 4 |
| 9 | HB50061 | START SWITCH | 啟動開關 | 1 | 41 | GU30370 | STOP PILOT "LA,LAD" | 酒杯(LA,LAD) | 1 |
| 10 | CH90121 | SCREW | 螺絲 | 1 | | GU30371 | STOP PILOT(LB) | 酒杯(LB) | 1 |
| 11 | CH90131 | SCREW | 螺絲 | 1 | 42 | GD31351A | SHAFT FOR "A"TYPE | 傳動軸 5.0mm | 1 |
| 12 | CH90151-1 | SCREW | 螺絲 | 2 | | GD31353B | SHAFT FOR "B"TYPE | 傳動軸 6.35mm | 1 |
| 13 | HA28071F | CHANGEOVER SWITCH | 正反開關 | 1 | | GD31351AD | SHAFT FOR "AD"TYPE | 傳動軸 5.0mm | 1 |
| 14 | CI60212 | CHANGEOVER SWITCH CAP | 正反開關帽蓋 | 1 | 43 | GP21291A | BIT PILOT FOR HEX 5.0mm | 起子頭帽鋼珠A、AD頭用 | 2 |
| 15 | CH20102 | SCREW | 螺絲 | 3 | | GP21291B | BIT PILOT FOR HEX 6.35mm | 起子頭帽鋼珠B頭用 | 2 |
| 16 | MO70051-3 | MOTOR ASSEMBLY | 馬達整組 | 1 | 44 | GF31371 | WARING PLATE FOR HEX 5.0mm | 扭力推盤-HEX 5.0mm | 1 |
| 17 | MI31611 | PILOT ROD | 開關引導棒 | 1 | | GF31372 | WARING PLATE FOR HEX 6.35mm | 扭力推盤-HEX 6.35mm | 1 |
| 18 | EB33610-2 | CERAMICS CAPACITOR | 陶瓷電容 | 1 | 45 | GE90361-7M | WARING SPRING | 扭力彈簧 | 1 |
| 19 | MD20151 | BRUSH CAP | 碳刷蓋 | 2 | 46 | GY21321 | WARING SPRING BASE-LB | 止推盤-LB | 1 |
| 20 | MC71411 | CARBON | 碳刷 | 2 | | GY31391 | WARING SPRING BASE-LA | 止推盤-LA | 1 |
| 21 | ML70531 | MOTOR TOP COVER | 碳刷座半成品 | 1 | 47 | GK20231B | "C"RING | 傳動軸固定 C環 | 1 |
| 22 | ME21481 | BALL BEARING | 軸承 | 2 | 48 | GB21331 | CLUTCH CASE | 下離合器筒 | 1 |
| 23 | MH70571-1 | ARMATURE | 電樞 | 1 | 49 | GO21341 | BIT SPRING | 起子頭帽彈簧 | 1 |
| 24 | MJ90601 | MOTOR YOKE ASSEMBLY | 鐵圈連磁鐵 | 1 | 50 | GJ21351 | BIT SLEEVE | 起子頭帽 | 1 |
| 25 | MB21521A | MOTOR END COVER | 馬達前蓋 | 1 | 51 | GQ21361 | "C"RING | 起子頭帽 C環 | 1 |
| 26 | MA21491B | ASSEMBLING SPRING | 馬達固定片 | 2 | 52 | GL21371 | TORQUE ADJUSTING PINS | 扭力調整棒 | 4 |
| 27 | MK21111PF | FAN | 風扇 | 1 | 53 | GM21381 | TORQUE ADJUSTING RING | 扭力調整環 | 1 |
| 28 | CK28031-1 | TRIGGER SPRING | 壓板彈簧 | 1 | 54 | GS21391 | "C"RING | 扭力環 C環 | 1 |
| 29 | GZ71091-8AF | CLUTCH ASSEMBLY FOR "7800LAF" | 離合器整組(7800LAF) | 1 | 55 | CD22078 | COUPLER | 前鎖環 | 1 |
| | GZ71091-8BF | CLUTCH ASSEMBLY FOR "7800LBF" | 離合器整組(7800LBF) | 1 | | CD22078-1 | COUPLER-ESD | 前鎖環-(ESD) | 1 |
| | GZ71091-8ADF | CLUTCH ASSEMBLY FOR "7800LADF" | 離合器整組(7800LADF) | 1 | 56 | CH30671-1C | GROUNDING MEANS | 接地線 | 1 |

# ※扭　力　調　整

1. 先行決定扭力大小，再用手旋轉扭力調整環至所需扭力位置。
2. 旋轉扭力調整環以增加或減少扭力輸出:順時針方向調至較高刻度，代表增加扭力。逆時針方向調至較低刻度，代表減少扭力。
3. 很多因素會影響扭力輸出。操作本電動螺絲起子時應循序漸進，先用小扭力試鎖螺絲，再漸漸增至較大扭力。
4. 扭力刻度與電動螺絲起子扭力的相互關係如扭力標示圖所示。扭力刻度的數值並非電動螺絲起子實際扭力的強弱，需對應電動螺絲起子型式以比對概略的扭力輸出值。
5. 鎖緊螺絲所需的扭力依其鉚合狀況或材質不同而有所差異，必要時可用扭力計量測及調整電動螺絲起子的扭力。
6. 電動螺絲起子經調整好扭力後，將外殼前鎖環鬆開取下，換上扭力固定環，這樣可避免人為擅意旋轉扭力調整環而讓原設定的扭力值遭到變動。
7. 在相同的扭力刻度下，反轉”R”的扭力會較大於正轉”F”的扭力，在不調整扭力調整環的情況下，有助於螺絲的拆卸；但是當螺絲緊度大於反轉扭力，離合器已經跳脫而螺絲仍無法鬆開時，仍需調整電動螺絲起子至較大扭力，方可鬆開螺絲。




# 注　意

1. 進行扭力調整時，應先停止電動螺絲起子運轉。
2. 機身上的扭力刻度僅供與扭力標示圖參考，不代表電動螺絲起子的扭力輸出值。
3. 電動螺絲起子的機械磨損狀況，依使用者之使用扭力、時間或頻率而有所差異，使用扭力越大、時間越長或頻率越高則磨損越快；新品在刻度 4 使用一個月後(每日 8 時，操作頻率 12Pcs/min)約有 3~5%的扭力衰減(刻度 8 則有 5~7%的衰減)，依使用時間的增長，其衰減程度會逐漸減少並趨於穩定，使用者可定期使用扭力計量測電動螺絲起子的扭力輸出是否符合需要，適時補償衰減的扭力。
4. 若電源控制器切換至“LO”時會無法輸出高功率，則電動起子的扭力輸出必須調整於中間扭力值以下使用。