

# 《免鍵式軸環》

## 免鍵式軸環的介紹 Introduction for Power Locker (Clamping Element)

### 一、什麼是免鍵式軸環？

#### What is Power Locker(Clamping Element) ?

免鍵式軸環是利用錐形結構做機械式縮合，以取代傳統鍵槽與鍵接合的結構。其優點有容易安裝、拆卸簡單節省工時、不需要鍵槽加工，高同心度（可自動校心）無背隙、回轉精度…等等。

Power Locker is designed for mechanical fastening with a conical structure, and supersedes the conventional structure with a key and a keyway. Its advantages are easy-to-assemble, easy-to-disassemble, time-saving, no key required highly alignment (automatic alignment adjustment), backlash free, rotational precision.....ETC。

### 二、什麼樣場合適合使用免鍵式軸環？

#### What can the Power Locker(Clamping Element) be applicable of ?

以現代機械朝精密度發展而言，只要是用鍵與鍵槽的連接場合均適用，尤其以高精密度伺服，傳動系統更為需要，如工作母機、精密電子、高度自動化、紡織、食品、造紙等機械，幾乎涵蓋所有傳動系統，均可使用。

As the precision of mechanism have increased continuously in the present day, the Power Locker is applicable on condition that the connection with a key and a keyway, in particular, for highly precise servo transmission system, like workstation, precise electronic application, high automation, textile machine, food machine, papermaking machine, its application nearly covers all transmission systems.

### 三、有什麼使用上的注意事項？

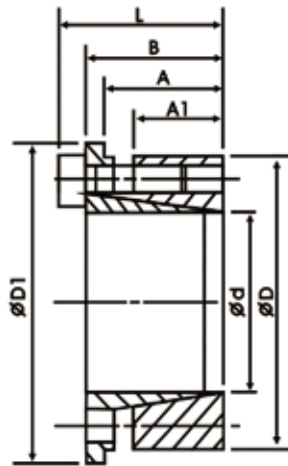
#### The notes for using Power Locker(Clamping Element) ?

1. 所需傳動扭力的確認  
The required transmissible torque
2. 軸與孔的加工精度要求  
The requirement of machining precision on shaft and bore.
3. 同心度的要求  
The requirement of alignment.
4. 是否有防銹的需求  
The requirement of rust resistance.

以上為一般注意事項，若有特別需求，請與製造者聯絡

The above are general requirements, if any special requirement, please contact with the manufacturer.

## SK 自動校心型 / Self-centering



SK-

內徑 / Inside Diameter

規格 No.	d mm	D mm	D1 mm	A mm	A1 mm	B mm	L mm	M mm	TS Nm	T Nm	F KN	P N/mm <sup>2</sup>	重量 Weight Kg
SK-08	08	21	23.5	14.5	10	16.5	20.5	M4	4.8	31.4	5.96	80	0.03
SK-10	10	23	25.5	14.5	10	16.5	20.5	M4	4.8	31.4	5.96	80	0.04
SK-11	11	24	26.5	14.5	10	16.5	20.5	M4	4.8	34.3	5.96	77	0.04
SK-12	12	26	28.5	14.5	10	16.5	20.5	M4	4.8	50.3	7.94	95	0.05
SK-14	14	28	30.5	17.5	12	20	24	M4	4.8	73.3	9.90	92	0.06
SK-15	15	29	31.5	17.5	12	20	24	M4	4.8	94.1	11.9	107	0.07
SK-16	16	30	32.5	17.5	12	20	24	M4	4.8	101	11.9	103	0.07
SK-17	17	31	33.5	17.5	12	20	24	M4	4.8	107	11.9	100	0.07
SK-18	18	32	34.5	17.5	12	20	24	M4	4.8	113	11.9	97	0.08
SK-19	19	33	35.5	17.5	12	20	24	M4	4.8	120	11.9	94	0.08

## 配合軸環之軸徑、孔徑公差表 / Applicable Shaft Size and Bore Size

單位：μm

尺寸 RANGE	$\phi 06-\phi 10$	$\phi 10-\phi 18$	$\phi 18-\phi 30$	$\phi 30-\phi 50$	$\phi 50-\phi 80$	$\phi 80-\phi 120$	$\phi 120-\phi 180$	$\phi 180-\phi 250$	$\phi 250-\phi 315$	軸環配合公差 Fit Tolerance of Lock	
Bore Tolerance 孔徑	H6	+9 +0	+11 +0	+13 +0	+16 +0	+19 +0	+22 +0	+25 +0	+29 +0	+32 +0	
	H7	+15 +0	+18 +0	+21 +0	+25 +0	+30 +0	+35 +0	+40 +0	+46 +0	+52 +0	SC $\phi 10\sim\phi 38$ SSD.SMA
	H8	+22 +0	+27 +0	+33 +0	+39 +0	+46 +0	+54 +0	+63 +0	+72 +0	+81 +0	SA.SB.SD.SDS. SES.SK.SF. SCSC $\phi 40\sim\phi 150$
Shaft Diameter Tolerance 軸徑	h6	-9 -0	-11 -0	-13 -0	-16 -0	-19 -0	-22 -0	-25 -0	-29 -0	-32 -0	SC $\phi 10\sim\phi 38$
	h7	-15 -0	-18 -0	-21 -0	-25 -0	-30 -0	-35 -0	-40 -0	-46 -0	-52 -0	SSD
	h8	-22 -0	-27 -0	-33 -0	-39 -0	-46 -0	-54 -0	-63 -0	-72 -0	-81 -0	SA.SB.SD.SDS. SES.SK.SF. SCSC $\phi 40\sim\phi 150$

★ : SA型2組使用扭力 1.7倍 / 1.7 times torque generated by using two sets of SA type  
 SA型3組使用扭力 2.3倍 / 2.3 times torque generated by using three sets of SA type  
 SA型4組使用扭力 2.9倍 / 2.9 times torque generated by using four sets of SA type  
 SC型2組使用扭力 1.5倍 / 1.5 times torque generated by using two sets of SC type  
 SC型3組使用扭力 1.8倍 / 1.8 times torque generated by using three sets of SC type  
 SC型4組使用扭力 2.0倍 / 2.0 times torque generated by using two sets of SC type

# 免鍵式軸環安裝範例 Shafting for Power Locker

