

# 產品綜合型錄

## PRODUCTS CATALOG

直線軸承、超耐磨自潤式直線軸承

連座直線軸承、軸心固定座

線性滑軌

滾珠螺桿

螺桿支撐座/螺帽支座

軸心式滑軌/軸心

精密螺帽

聯軸器

免鍵式軸環

陶瓷軸承



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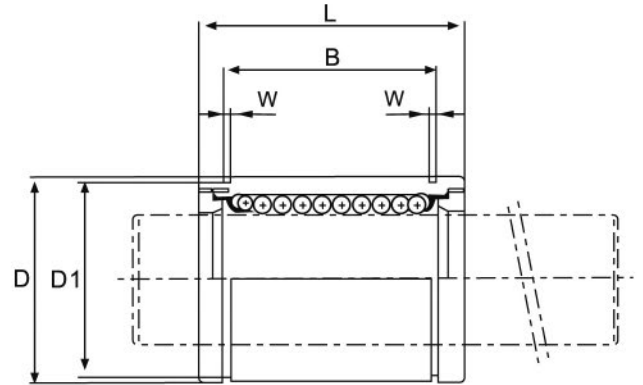


# 1. 直線軸承、 超耐磨自潤式直線軸承

# LM系列

## LM Series

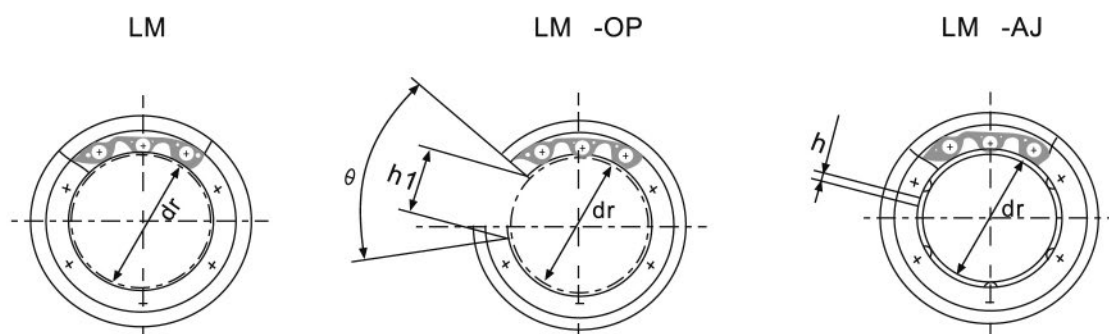
(SM Series)



型号 Part No.						主要尺寸和公差			
密封型 Seal Type	钢球列数 Ball Circuit	开口型 Open Type	钢球列数 Ball Circuit	间隙调整型 Adjustable Type	钢球列数 Ball Circuit	dr (mm)	公差 Tolerance ( $\mu\text{m}$ )	D (mm)	公差 Tolerance ( $\mu\text{m}$ )
LM4	4	-	-	-	-	4	0 -8	8	0 -9
LM5UU	4	-	-	-	-	5		10	
LM6UU	4	-	-	LM6UUAJ	4	6	0 -9	12	0 -11
LM8SUU	4	-	-	LM8SUUAJ	4	8		15	
LM8UU	4	-	-	LM8UUAJ	4	8		15	
*LM10UU	4	-	-	*LM10UUAJ	4	10		19	0 -13
*LM12UU	4	LM12UU-OP	3	*LM12UUAJ	4	12		21	
LM13UU	4	LM13UU-OP	3	LM13UUAJ	4	13	23		
*LM16UU	5	LM16UU-OP	4	*LM16UUAJ	5	16	28	0 -10	0 -16
*LM20UU	5	LM20UU-OP	4	*LM20UUAJ	5	20	32		
*LM25UU	6	LM25UU-OP	5	*LM25UUAJ	6	25	40		
*LM30UU	6	LM30UU-OP	5	*LM30UUAJ	6	30	45	0 -12	0 -19
LM35UU	6	LM35UU-OP	5	LM35UUAJ	6	35	52		
*LM40UU	6	LM40UU-OP	5	*LM40UUAJ	6	40	60		
LM50UU	6	LM50UU-OP	5	LM50UUAJ	6	50	80	0 -22	0 -22
LM60UU	6	LM60UU-OP	5	LM60UUAJ	6	60	90		

注：\*可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

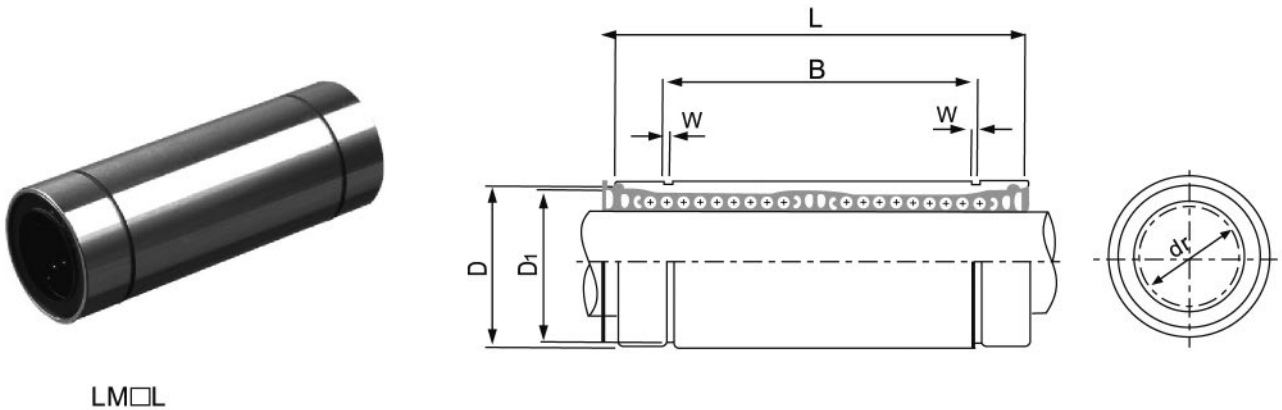


Main Dimensions and Tolerance									偏心率 Eccentricity (max) μm	最大径向 间隙 Radial Clearance (max) μm	额定负荷 Basic Load Rating		重量 Weight (g)
L (mm)	公差 Tolerance (μm)	B (mm)	公差 Tolerance (μm)	W (mm)	D1 (mm)	h (mm)	h1 (mm)	θ			C N	Co N	
12	0 -120	-	0 -200	-	-	-	-	-	8	-3	88	127	2
15		10.2		1.1	9.6	-	-	-			167	206	4
19	0 -200	13.5	0 -200	1.1	11.5	1.0	-	-	12	-4	206	265	8.5
17		11.5		1.1	14.3	1.0	-	-			176	216	11
24		17.5		1.1	14.3	1.0	-	-			274	392	17
29		22		1.3	18	1.0	-	-			372	549	36
30		23		1.3	20	1.5	8	80°	15	-6	412	598	42
32		23		1.3	22	1.5	9	80°			510	784	49
37		26.5		1.6	27	1.5	11	80°	20	-8	774	1180	76
42		30.5		1.6	30.5	1.5	11	60°			882	1370	100
59	0 -300	41	0 -400	1.85	38	2	12	50°	15	-10	980	1570	240
64		44.5		1.85	43	2.5	15	50°			1570	2740	270
70		49.5		2.1	49	2.5	17	50°	20	-13	1670	3140	425
80		60.5		2.1	57	3	20	50°			2160	4020	654
100		74		2.6	76.5	3	25	50°			3820	7940	1700
110		85		3.15	86.5	3	30	50°	25	4700	10000	2000	

# LM\_L系列

## LM\_L Series

(SM\_W Series)



LM□L

型号 Part No.		主要尺寸和公差 Main dimensions and Tolerance										额定负荷 Basic Load Rating		偏心率 Eccentricity	重量 Weight (g)
密封型 Seal Type	球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L (mm)	公差 Tolerance (μm)	B (mm)	公差 Tolerance (μm)	W (mm)	D1 (mm)	C	N		
LM6LUU	4	6	0 -10	12	0 -13	35	0 -300	27	0 -400	1.1	11.5	323	530	15	16
LM8LUU	4	8		15		45		35		1.1	14.3	431	784		
*LM10LUU	4	10		19		55		44		1.3	18	588	1100		
*LM12LUU	4	12		21		57		46		1.3	20	813	1570		
LM13LUU	4	13		23		61		46		1.3	22	813	1570		
*LM16LUU	5	16		28		70		53		1.6	27	1230	2350		
*LM20LUU	5	20	0 -12	32	0 -19	80	0 -400	61	0 -500	1.6	30.5	1400	2740	20	180
*LM25LUU	6	25		40		112		82		1.85	38	1560	3140		
*LM30LUU	6	30		45		123		89		1.85	43	2490	5490		
LM35LUU	6	35	0 -15	52	0 -22	135	0 -400	99	0 -500	2.1	49	2650	6270	25	795
*LM40LUU	6	40		60		151		121		2.1	57	3430	8040		
LM50LUU	6	50		80		192		148		2.6	76.5	6080	15900		
LM60LUU	6	60		0/-20		90		0/-25		209	170	3.15	86.5		

注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.



# LMF/K/H系列

## LMF/K/ H Series

(SMF/K/T Series)



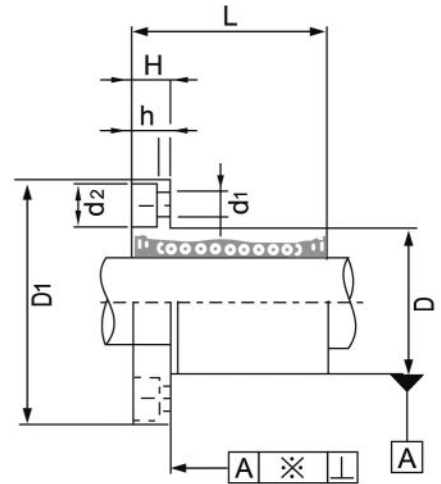
LMF



LMK



LMH

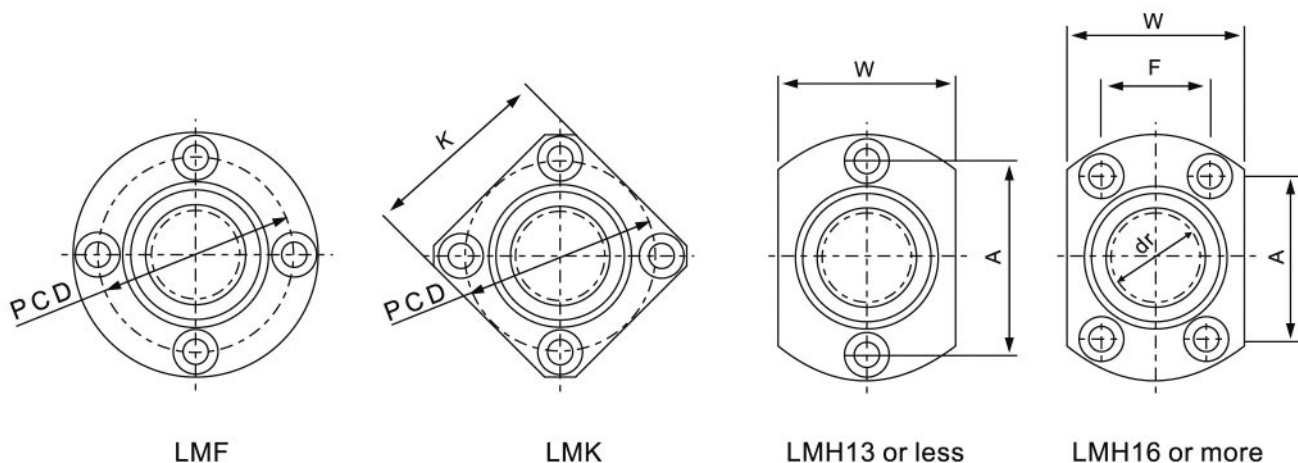


型号			Part No.	主要公差和尺寸						Main Dimensions and Tolerance					
密封型 Seal Type			球列数 Ball Circuit	dr (mm)	公差 Tolerance ( $\mu$ m)	D (mm)	公差 Tolerance ( $\mu$ m)	L (mm)	公差 Tolerance ( $\mu$ m)	D1 (mm)	H (mm)	PCD (mm)	K (mm)	W (mm)	A (mm)
LMF6UU	LMK6UU	LMH6UU	4	6	0	12	-11	19	±300	28	5	20	22	18	20
LMF8UU	LMK8UU	LMH8UU	4	8		15		24							
*LMF10UU	*LMK10UU	*LMH10UU	4	10		19		29							
*LMF12UU	*LMK12UU	*LMH12UU	4	12	-9	21	0	30	-200	42	6	32	32	27	32
LMF13UU	LMK13UU	LMH13UU	4	13		23		32							
*LMF16UU	*LMK16UU	*LMH16UU	5	16		28		37							
*LMF20UU	*LMK20UU	*LMH20UU	5	20	0	32	-16	42	-300	54	8	43	42	38	36
*LMF25UU	*LMK25UU	*LMH25UU	6	25		40		59							
*LMF30UU	*LMK30UU	*LMH30UU	6	30		45		64							
LMF35UU	LMK35UU	-	6	35	0	52	-19	70	-300	82	10	67	64	60	55
*LMF40UU	*LMK40UU	-	6	40		60		80							
LMF50UU	LMK50UU	-	6	50		80		100							
LMF60UU	LMK60UU	-	6	60	0/-15	90	0/-22	110	-400	134	18	112	106	-	-

注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.



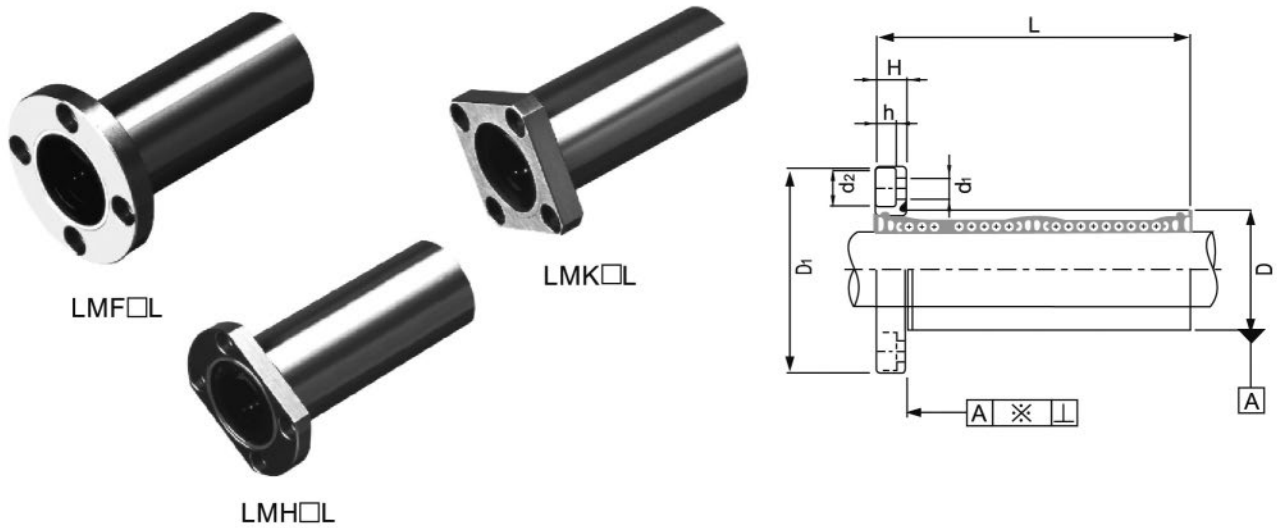


F (mm)	d1xd2xh (mm)	偏心度 Eccentricity (max) μm	最大径向 间隙 Radial Clearance (max) μm	额定负荷 Basic Load Rating		重量 Weight (g)
				C N	Co N	
-	3.5x6x3.1	12	-3	206	265	24
-	3.5x6x3.1			274	392	37
-	4.5x7.5x4.1		-4	372	549	72
-	4.5x7.5x4.1			510	784	76
-	4.5x7.5x4.1			510	784	88
22	4.5x7.5x4.1	15	-6	774	1180	120
24	5.5x9x5.1			882	1370	180
32	5.5x9x5.1		980	1570	340	
35	6.6x11x6.1	20	-8	1570	2740	470
38	6.6x11x6.1			1670	3140	650
-	9x14x8.1		25	-10	2160	4020
-	9x14x8.1	-13		3820	7940	2200
-	11x17x11.1			4700	10000	3000

# LMF/K/H\_L系列

## LMF/K/H\_L Series

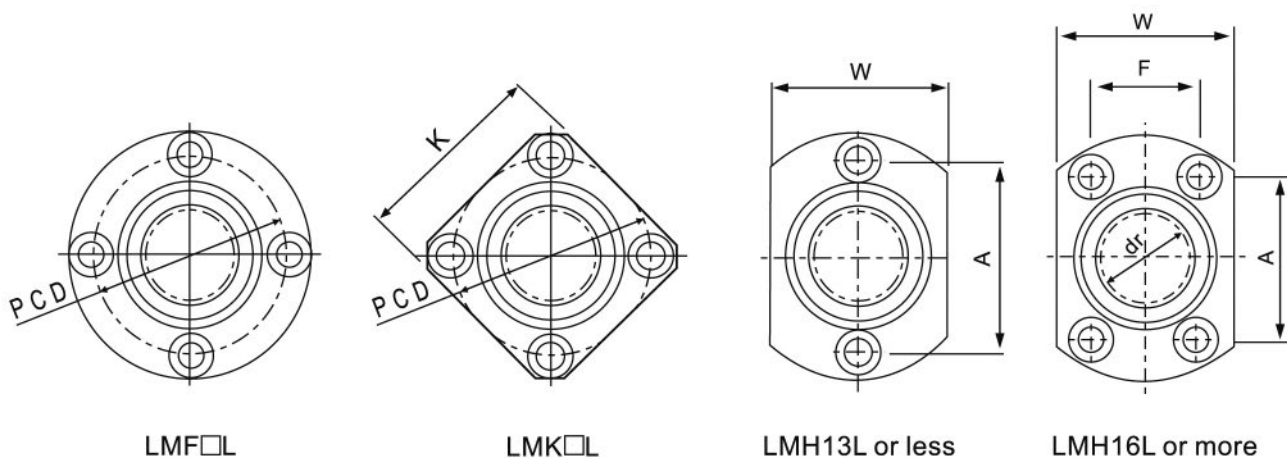
(SMF/K/T\_W Series)



型号 Part No.			主要尺寸和公差							
密封型 Seal Type		球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L (mm)	公差 Tolerance (μm)	D1 (mm)	H (mm)
LMF6LUU	LMK6LUU	LMH6LUU	4	6	12	0 -13	35	±300	28	5
LMF8LUU	LMK8LUU	LMH8LUU	4	8			45		32	5
*LMF10LUU	*LMK10LUU	*LMH10LUU	4	10			55		40	6
*LMF12LUU	*LMK12LUU	*LMH12LUU	4	12	21	0 -16	57	-300	42	6
LMF13LUU	LMK13LUU	LMH13LUU	4	13	23		61		43	6
*LMF16LUU	*LMK16LUU	*LMH16LUU	5	16	28		70		48	6
*LMF20LUU	*LMK20LUU	*LMH20LUU	5	20	32	0 -19	80	-300	54	8
*LMF25LUU	*LMK25LUU	*LMH25LUU	6	25	40		112		62	8
*LMF30LUU	*LMK30LUU	*LMH30LUU	6	30	45		123		74	10
LMF35LUU	LMK35LUU	LMH35LUU	6	35	52	0 -22	135	-400	82	10
*LMF40LUU	*LMK40LUU	-	6	40	60		151		96	13
LMF50LUU	LMK50LUU	-	6	50	80		192		116	13
LMF60LUU	LMK60LUU	-	6	60	0/-20	90	0/-25	209	134	18

注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

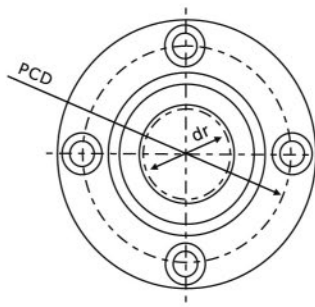
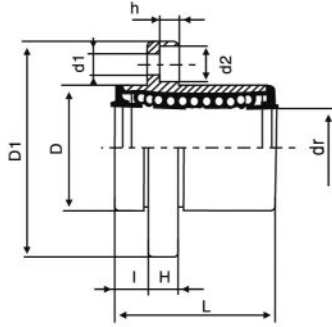


Main Dimensions and Tolerance						偏心度 Eccentricity (max) μm	最大径向 间隙 Radial Clearance (max) μm	额定负荷 Basic Load Rating		重量 Weight (g)
PCD (mm)	K (mm)	W (mm)	A (mm)	F (mm)	d1xd2xh (mm)			C N	Co N	
20	22	18	20	-	3.5x6x3.1	15	-3	323	529	31
24	25	21	24	-	3.5x6x3.1		-3	431	784	51
29	30	25	29	-	4.5x7.5x4.1		-4	588	1100	98
32	32	27	32	-	4.5x7.5x4.1		-4	813	1570	110
33	34	29	33	-	4.5x7.5x4.1		-4	813	1570	130
38	37	34	31	22	4.5x7.5x4.1		-6	1230	2350	190
43	42	38	36	24	5.5x9x5.1	20	-6	1400	2740	260
51	50	46	40	32	5.5x9x5.1		-6	1560	3140	540
60	58	51	49	35	6.6x11x6.1		-8	2490	5490	680
67	64	60	55	38	6.6x11x6.1	25	-8	2650	6270	1020
78	75	-	-	-	9x14x8.1		-10	3430	8040	1570
98	92	-	-	-	9x14x8.1		-13	6080	15900	3600
112	106	-	-	-	11x17x11.1		-13	7550	20000	4500

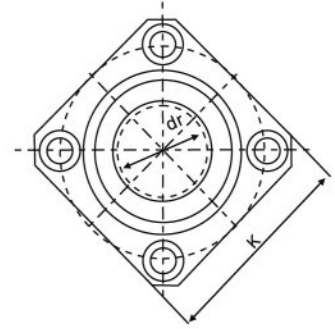
# LMF/KP系列

## LMF/KP Series

(SMF/K-E Series)



LMFP



LMKP

类型 Part No.		主要尺寸和公差 Main Dimensions and Tolerance												偏心度 Eccentricity	额定负荷 Basic Load Rating		重量 Weight (g)	
密封型 Seal Type	球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L (mm)	公差 Tolerance (μm)	I (mm)	D1 (mm)	K (mm)	H (mm)	PCD (mm)	d1 x d2 x h (mm)		C	Co		
LMFP6UU	LMKP6UU	4	6	0	12	-13	19	±300	5	28	22	5	20	3.5x6x3.1	12	206	265	24
LMFP8UU	LMKP8UU	4	8		15		24		5	32	25	5	24	3.5x6x3.1		274	392	37
*LMFP10UU	*LMKP10UU	4	10	0	19	-9	29	-200	6	40	30	6	29	4.5x7.5x4.1	12	372	549	72
*LMFP12UU	*LMKP12UU	4	12		21		30		6	42	32	6	32	4.5x7.5x4.1		510	784	76
LMFP13UU	LMKP13UU	4	13	0	23	-16	32	-300	6	43	34	6	33	4.5x7.5x4.1	12	510	784	88
*LMFP16UU	*LMKP16UU	5	16		28		37		6	48	37	6	38	4.5x7.5x4.1		774	1180	120
*LMFP20UU	*LMKP20UU	5	20	0	32	-10	42	-300	8	54	42	8	43	5.5x9x5.1	15	882	1370	180
*LMFP25UU	*LMKP25UU	6	25		40		59		8	62	50	8	51	5.5x9x5.1		980	1570	340
*LMFP30UU	*LMKP30UU	6	30	0	45	-12	64	-300	10	74	58	10	60	6.6x11x6.1	12	1570	2740	470
LMFP35UU	LMKP35UU	6	35		52		70		10	82	64	10	67	6.6x11x6.1		1670	3140	650
*LMFP40UU	*LMKP40UU	6	40	0	60	-22	80	-300	13	96	75	13	78	9x14x8.1	20	2160	4020	1060
LMFP50UU	LMKP50UU	6	50		80		100		13	116	92	13	98	9x14x8.1		3820	7940	2200
LMFP60UU	LMKP60UU	6	60	0	90	-25	110	-400	18	134	106	18	122	11x17x11.1	25	4700	10000	3000

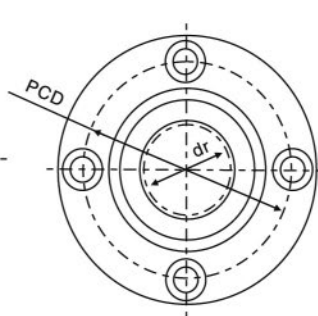
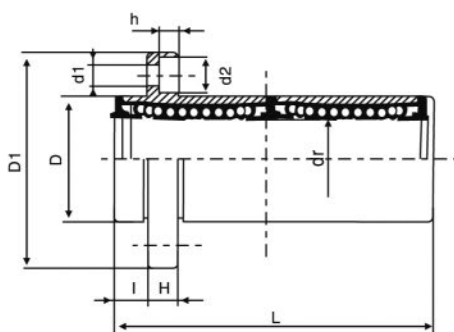
注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

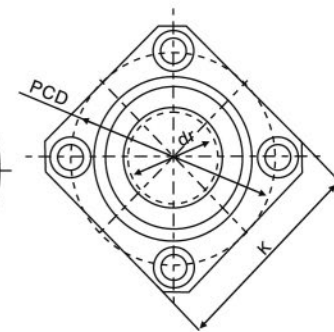
# LMF/KP\_L系列

## LMF/KP\_L Series

(SMF/K\_W-E Series)



LMFP□L



LMKP□L

型号 Part No.		主要尺寸和公差 Main Dimensions and Tolerance												偏心度 Eccentricity	额定负荷 Basic Load Rating		重量 Weight (g)	
密封型 Seal Type	球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L (mm)	公差 Tolerance (μm)	I (mm)	D1 (mm)	K (mm)	H (mm)	PCD (mm)	d1xd2xh (mm)		C	Co		N
LMFP6LUU	LMKP6LUU	4	6	0	12	-13	35	±300	5	28	22	5	20	3.5x6x3.1	15	323	529	31
LMFP8LUU	LMKP8LUU	4	8		15		45		5	32	25	5	24	3.5x6x3.1		431	784	51
*LMFP10LUU	*LMKP10LUU	4	10		19		55		6	40	30	6	29	4.5x7.5x4.1		588	1100	98
*LMFP12LUU	*LMKP12LUU	4	12	0	21	-16	57	-200	6	42	32	6	32	4.5x7.5x4.1	20	813	1570	110
LMFP13LUU	LMKP13LUU	4	13		23		61		6	43	34	6	33	4.5x7.5x4.1		813	1570	130
*LMFP16LUU	*LMKP16LUU	5	16		28		70		6	48	37	6	38	4.5x7.5x4.1		1230	2350	190
*LMFP20LUU	*LMKP20LUU	5	20	0	32	-19	80	-300	8	54	42	8	43	5.5x9x5.1	25	1400	2740	260
*LMFP25LUU	*LMKP25LUU	6	25		40		112		8	62	50	8	51	5.5x9x5.1		1560	3140	540
*LMFP30LUU	*LMKP30LUU	6	30		45		123		10	74	58	10	60	6.6x11x6.1		2490	5490	680
LMFP35LUU	LMKP35LUU	6	35	0	52	-22	135	-400	10	82	64	10	67	6.6x11x6.1	25	2650	6270	1020
*LMFP40LUU	*LMKP40LUU	6	40		60		151		13	96	75	13	78	9x14x8.1		3430	8040	1570
LMFP50LUU	LMKP50LUU	6	50		80		192		13	116	92	13	98	9x14x8.1		6080	15900	3600
LMFP60LUU	LMKP60LUU	6	60	0	90	-25	209	-400	18	134	106	18	112	11x17.5x10.8	7550	20000	4500	

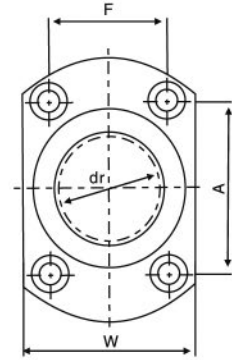
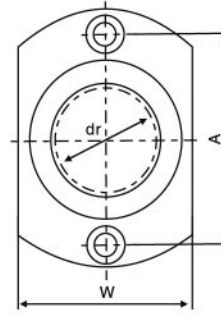
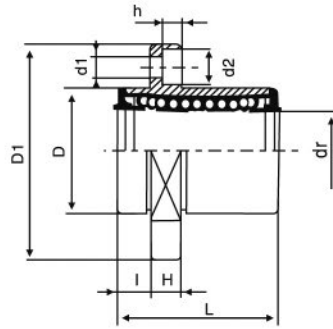
注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

# LMHP系列

## LMHP Series

(SMT-E Series)



LMHP6~LMHP13

LMHP16~LMHP30

类型 Part No.		主要尺寸和公差 Main Dimensions and Tolerance												偏心率 Eccentricity	额定负荷 Basic Load Rating		重量 Weight (g)	
密封型 Seal Type	球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L (mm)	公差 Tolerance (μm)	I (mm)	D1 (mm)	W (mm)	H (mm)	A (mm)	F (mm)		D1xd2xh (mm)	C		Co
LMHP6UU	4	6	0 -9	12	0 -13	19	±300	5	28	18	5	20	-	3.5x6x3.1	12	206	265	21
LMHP8UU	4	8		15		24		5	32	21	5	24	-	3.5x6x3.1		274	392	33
*LMHP10UU	4	10		19	29	6	40	25	6	29	-	4.5x7.5x4.1	372	549		64		
*LMHP12UU	4	12		21	0 -16	30	-200	6	42	27	6	32	-	4.5x7.5x4.1		510	784	68
LMHP13UU	4	13		23		32		6	43	29	6	33	-	4.5x7.5x4.1		510	784	81
*LMHP16UU	5	16		28		37		6	48	34	6	31	22	4.5x7.5x4.1		774	1180	112
*LMHP20UU	5	20	0 -10	32	0 -19	42	-300	8	54	38	8	36	24	5.5x9x5.1	15	882	1370	167
*LMHP25UU	6	25		40		59		8	62	46	8	40	32	5.5x9x5.1		980	1570	325
*LMHP30UU	6	30		45		64		10	74	51	10	49	35	6.6x11x6.1		1570	2740	388

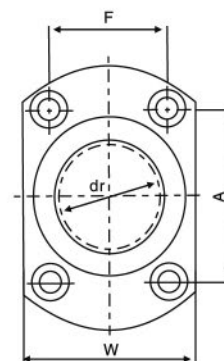
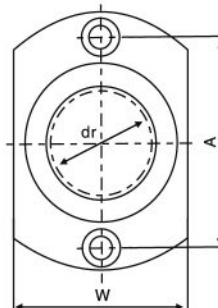
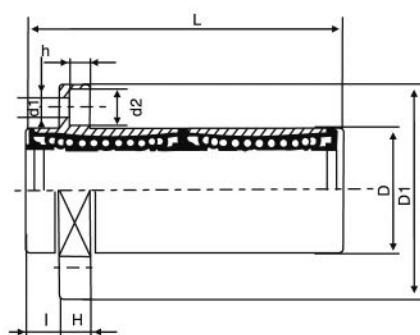
注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

# LMHP\_L系列

## LMHP\_L Series

(SMT W-E Series)



LMHP6L~LMHP13L    LMHP16L~LMHP30L

型号 Part No.		主要尺寸和公差 Main Dimensions and Tolerance												偏心率 Eccentricity	额定负荷 Basic Load Rating		重量 Weight (g)	
密封型 Seal Type	球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L ±0.3 (mm)	公差 Tolerance (μm)	I (mm)	D1 (mm)	W (mm)	H (mm)	A (mm)	F (mm)		d1xd2xh (mm)	C N		Co N
LMHP6LUU	4	6	0 -10	12	0 -13	35	±300	5	28	18	5	20	-	3.5x6x3.1	15	323	529	28
LMHP8LUU	4	8		15		45		5	32	21	5	24	-	3.5x6x3.1		431	784	47
*LMHP10LUU	4	10		19	0 -16	55	-200	6	40	25	6	29	-	4.5x7.5x4.1		588	1100	90
*LMHP12LUU	4	12		21		58		6	42	27	6	32	-	4.5x7.5x4.1		813	1570	102
*LMHP13LUU	4	13		23		61		6	43	29	6	33	-	4.5x7.5x4.1		813	1570	123
*LMHP16LUU	5	16		28		70		6	48	34	6	31	22	4.5x7.5x4.1		1230	2350	182
*LMHP20LUU	5	20	0 -12	32	0 -19	80	-300	8	54	38	8	36	24	5.5x9x5.1	20	1400	2740	247
*LMHP25LUU	6	25		40		112		8	62	46	8	40	32	5.5x9x5.1		1560	3140	525
*LMHP30LUU	6	30		45		123		10	74	51	10	49	35	6.6x11x6.1		2490	5490	645

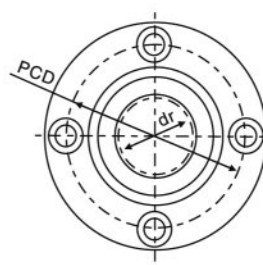
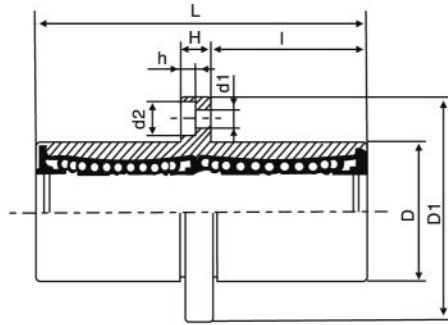
注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

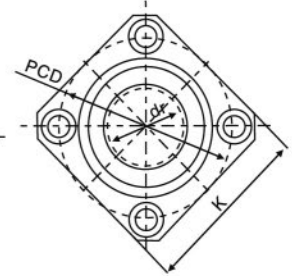
# LMF/KC系列

## LMF/KC Series

(SMF/KC Series)



LMFC



LMKC

型号 Part No.		主要尺寸和公差 Main Dimensions and Tolerance											偏心度 Eccentricity	额定负荷 Basic Load Rating		重量 Weight (g)		
密封型 Seal Type	球列数 Ball Circuit	dr (mm)	公差 Tolerance (μm)	D (mm)	公差 Tolerance (μm)	L (mm)	公差 Tolerance (μm)	I (mm)	D1 (mm)	K (mm)	H (mm)	PCD (mm)		d1 x d2 x h (mm)	C		Co	N
LMFC6UU	LMKC6UU	4	6	0 -10	12	0 -13	35	±300	15	28	22	5	20	3.5x6x3.1	15	323	529	31
LMFC8UU	LMKC8UU	4	8		15		45		20	32	25	5	24	3.5x6x3.1		431	784	51
*LMFC10UU	*LMKC10UU	4	10		19	55	24.5	40	30	6	29	4.5x7.5x4.1	588	1100		98		
*LMFC12UU	*LMKC12UU	4	12		21	57	-200	25.5	42	32	6	32	4.5x7.5x4.1	813		1570	110	
LMFC13UU	LMKC13UU	4	13		23	61	27.5	43	34	6	33	4.5x7.5x4.1	813	1570		130		
LMFC16UU	LMKC16UU	5	16		28	70	32	48	37	6	38	4.5x7.5x4.1	1230	2350		190		
*LMFC20UU	*LMKC20UU	5	20	0 -12	32	0 -19	80	-300	36	54	42	8	43	5.5x9x5.1	20	1400	2740	260
*LMFC25UU	*LMKC25UU	6	25		40		112		52	62	50	8	51	5.5x9x5.1		1560	3140	540
*LMFC30UU	*LMKC30UU	6	30		45	123	56.5		74	58	10	60	6.6x11x6.1	2490		5490	680	
LMFC35UU	LMKC35UU	6	35	0 -45	52	0 -22	135	-400	62.5	82	64	10	67	6.6x11x6.1	25	2650	6270	1020
*LMFC40UU	*LMKC40UU	6	40		60		151		69	96	75	13	78	9x14x8.1		3430	8040	1570
LMFC50UU	LMKC50UU	6	50		80	192	89.5		116	92	13	98	9x14x8.1	6080		15900	3600	
LMFC60UU	LMKC60UU	6	60		0 -20	90	0 -25		209	-400	95.5	134	106	18		112	11x17x11.1	7550

注：\*为可配置钢保持架。

Note: \*The ball retainer is made from steel or resin.

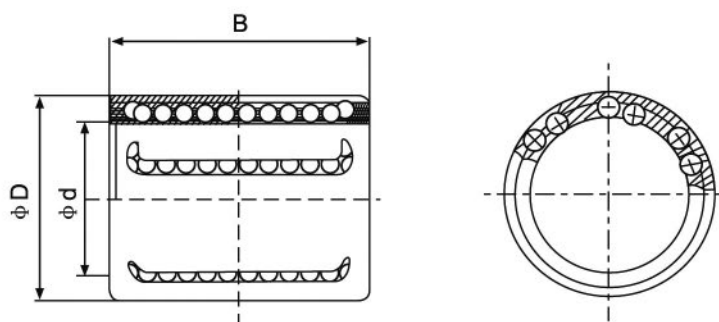


# KH系列

## KH Series



KH



型号 Part No.	主要尺寸 Main Dimensions			额定负荷 Basic Load Rating		重量 Weight (g)
	$\phi d$	$\phi D$	B	$\frac{C}{N}$	$\frac{C_0}{N}$	
KH-0622	6	12	22	400	239	7
KH-0824	8	15	24	435	280	12
KH-1026	10	17	26	500	370	14.5
KH-1228	12	19	28	620	510	18.5
KH-1428	14	21	28	620	520	20.5
KH-1630	16	24	30	800	620	27.5
KH-2030	20	28	30	950	790	32.5
KH-2540	25	35	40	1990	1670	66
KH-3050	30	40	50	2800	2700	95
KH-4060	40	52	60	4400	4450	182
KH-5070	50	62	70	5500	6300	252

### 型号格式

Type number format

KH: 冲压外圈型  
Pressing bush linear bearing

20: 公称轴径  
Shaft diameter

**KH 20 30 PP**

P: 单边密封圈  
Seal one side  
PP: 两边密封圈  
Seal both sides

30: 长度尺寸  
Length dimension

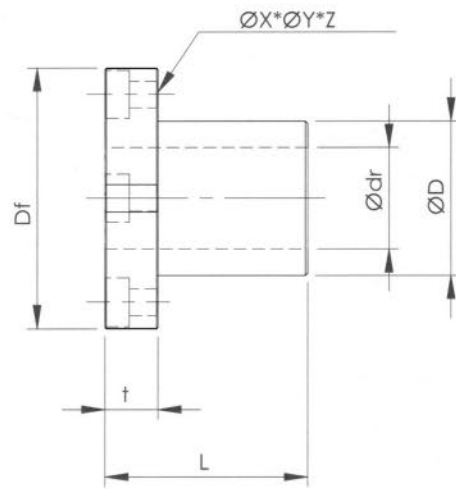
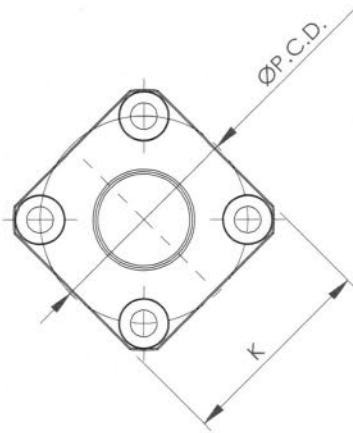
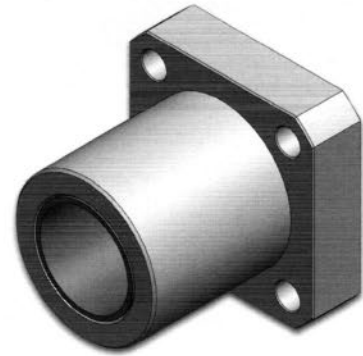
## Part Numbering | 型號說明 : TMF 20

1 2

### 1 Square Flange Self-Lubricated Bearing |

TMF 方法蘭型自潤軸承

### 2 Bearing Inner Diameter | 軸承內徑



Model 型號	Inner Dia. 軸承內徑	Dimensions 主要尺寸								
	Ødr (F8)	ØD (h6)	L	ØDf	K	t	P.C.D.	ØX	ØY	Z
TMF 10	10	19	29	40	30	9	29	4.5	7.5	4.1
TMF 12	12	21	30	42	32	9	32	4.5	7.5	4.1
TMF 13	13	23	32	43	34	9	33	4.5	7.5	4.1
TMF 16	16	28	37	48	37	9	38	4.5	7.5	4.1
TMF 20	20	32	42	54	42	11	43	5.5	9.0	5.1
TMF 25	25	40	59	62	50	11	51	5.5	9.0	5.1
TMF 30	30	45	64	74	58	14	60	6.6	11.0	6.1
TMF 35	35	52	70	82	64	14	67	6.6	11.0	6.1
TMF 40	40	60	80	96	75	18	78	9.0	14.0	8.1
TMF 50	50	80	100	116	92	20	98	9.0	14.0	8.1

(mm)

Model 型號	Max. Static Load 最大靜負載 (kgf)	Max. PV 負載 X 速度 (最大值) (kgf * m/sec)	Max. Speed 最快速度 (m / sec)	Weight 重量 (g)
TMF 10	200	10.4	2	33
TMF 12	250	12.9	2	35
TMF 13	290	14.9	2	38
TMF 16	410	21.2	2	56
TMF 20	580	30.1	2	75
TMF 25	1000	52.8	2	149
TMF 30	1300	68.7	2	202
TMF 35	1700	87.7	2	296
TMF 40	2200	115.0	2	450
TMF 50	3500	179.0	2	1000

(mm)

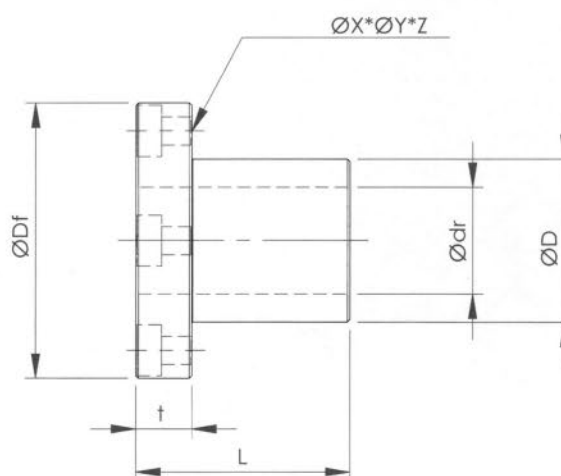
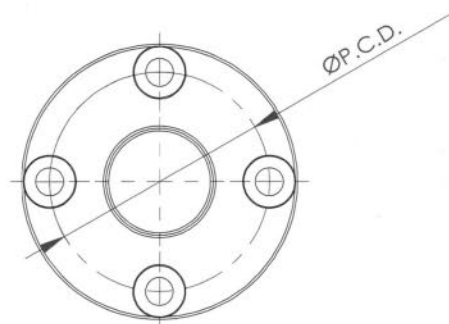
## Part Numbering | 型號說明：TMFR 20

1 2

### 1 Round Flange Self-Lubricated Bearing |

TMFR 圓法蘭型自潤軸承

### 2 Bearing Inner Diameter | 軸承內徑



Model 型號	Inner Dia. 軸承內徑 Ødr (F8)	Dimensions 主要尺寸							
		ØD (h6)	L	ØDf	t	P.C.D.	ØX	ØY	Z
TMFR 6	6	12	19	28	8	20	3.5	6.0	3.1
TMFR 8	8	15	24	32	8	24	3.5	6.0	3.1
TMFR 10	10	19	29	40	9	29	4.5	7.5	4.1
TMFR 12	12	21	30	42	9	32	4.5	7.5	4.1
TMFR 16	16	28	37	48	9	38	4.5	7.5	4.1
TMFR 20	20	32	42	54	11	43	5.5	9.0	5.1
TMFR 25	25	40	59	62	11	51	5.5	9.0	5.1
TMFR 30	30	45	64	74	14	60	6.6	11.0	6.1

(mm)

Model 型號	Max. Static Load 最大靜負載	Max. PV 負載 X 速度 (最大值)	Max. Speed 最快速度	Weight 重量
	(kgf)	(kgf * m/sec)	(m / sec)	(g)
TMFR 6	80	4.1	2	12
TMFR 8	130	6.9	2	14
TMFR 10	200	10.4	2	36
TMFR 12	250	12.9	2	38
TMFR 16	410	21.2	2	60
TMFR 20	580	30.1	2	80
TMFR 25	1000	52.8	2	160
TMFR 30	1300	68.7	2	212

(mm)

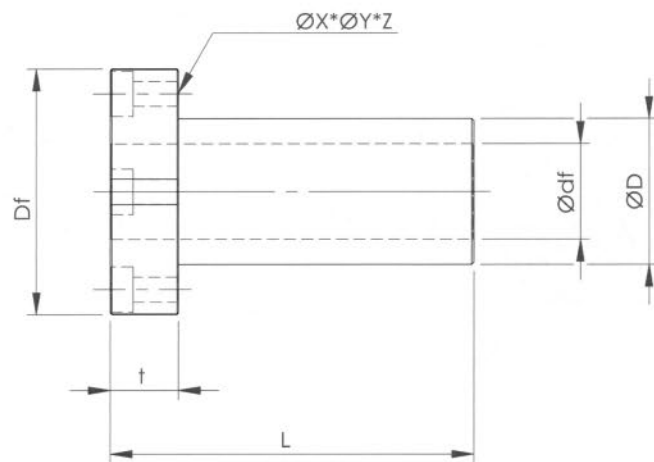
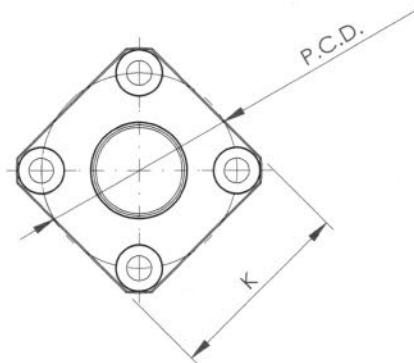
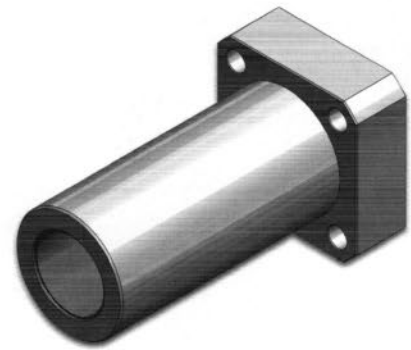
## Part Numbering | 型號說明：TMFW 20

**1**   **2**

**1** Long Type Square Flange Self-Lubricated Bearing |

TMFW 方法蘭加長型自潤軸承

**2** Bearing Inner Diameter | 軸承內徑



Model 型號	Inner Dia. 軸承內徑	Dimensions 主要尺寸								
		Ødr (F8)	ØD (h6)	L	ØDf	K	t	P.C.D.	ØX	ØY
TMFW 10	10	19	55	40	30	10	20	4.5	7.5	4.1
TMFW 12	12	21	57	42	32	13	32	4.5	7.5	4.1
TMFW 16	16	28	70	48	37	13	38	4.5	7.5	4.1
TMFW 20	20	32	80	54	42	15	43	5.5	9.0	5.1
TMFW 25	25	40	112	62	50	15	51	5.5	9.0	5.1
TMFW 30	30	45	123	74	58	20	60	6.6	11.0	6.1
TMFW 35	35	52	135	82	64	20	67	6.6	11.0	6.1
TMFW 40	40	60	151	96	75	22	78	9.0	14.0	8.1

(mm)

Model 型號	Max. Static Load 最大靜負載	Max. PV 負載 X 速度 (最大值)	Max. Speed 最快速度	Weight 重量
	(kgf)	(kgf * m/sec)	(m / sec)	(g)
TMFW 10	380	18.7	2	62
TMFW 12	475	23.2	2	67
TMFW 16	780	38.1	2	106
TMFW 20	1100	54.2	2	143
TMFW 25	1900	95.0	2	283
TMFW 30	2470	123.7	2	388
TMFW 35	3230	157.9	2	570
TMFW 40	4180	207.0	2	849

(mm)

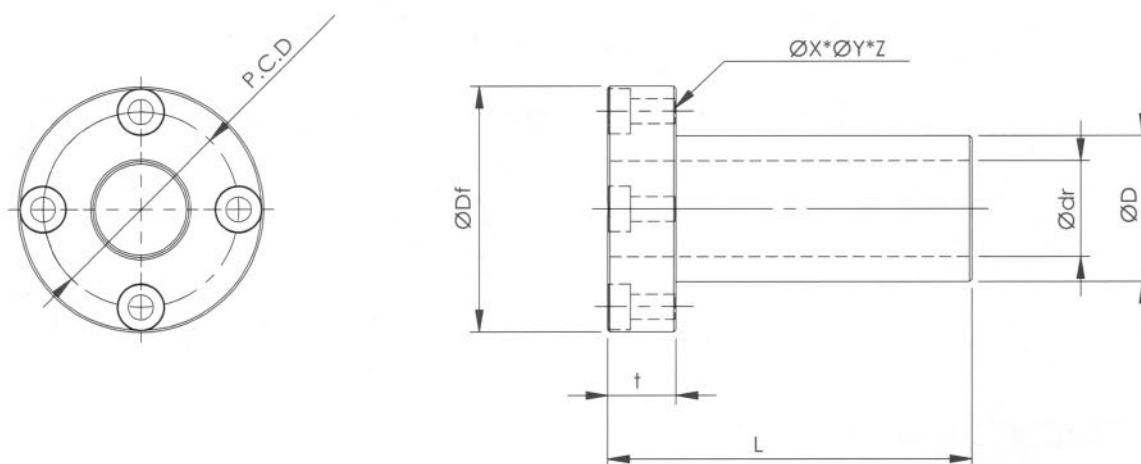
## Part Numbering | 型號說明：TMFRW 20

1 2

### 1 Long Type Round Flange Self-Lubricated Bearing |

TMFRW 圓法蘭加長型自潤軸承

### 2 Bearing Inner Diameter | 軸承內徑



Model 型號	Inner Dia. 軸承內徑	Dimensions 主要尺寸							
		Ødr (F8)	ØD (h6)	L	ØDf	t	P.C.D.	ØX	ØY
TMFRW 12	12	21	57	42	13	32	4.5	7.5	4.1
TMFRW 16	16	28	70	48	13	38	4.5	7.5	4.1
TMFRW 20	20	32	80	54	15	43	5.5	9.0	5.1
TMFRW 25	25	40	112	62	15	51	5.5	9.0	5.1
TMFRW 30	30	45	123	74	20	60	6.6	11.0	6.1

(mm)

Model 型號	Max. Static Load 最大靜負載	Max. PV 負載 X 速度 (最大值)	Max. Speed 最快速度	Weight 重量
	(kgf)	(kgf * m/sec)	(m / sec)	(g)
TMFRW 12	475	23.2	2	72
TMFRW 16	780	38.1	2	113
TMFRW 20	1100	54.2	2	150
TMFRW 25	1900	95.0	2	303
TMFRW 30	2470	123.7	2	407

(mm)



## 2. 連座直線軸承、 軸心固定座

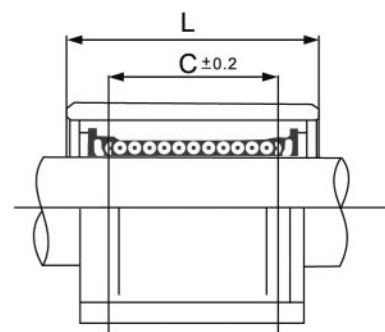
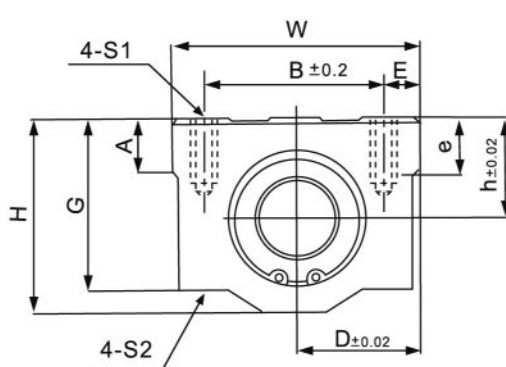
# SC系列

## Slide unit SC Series

(SMA Type)



SC

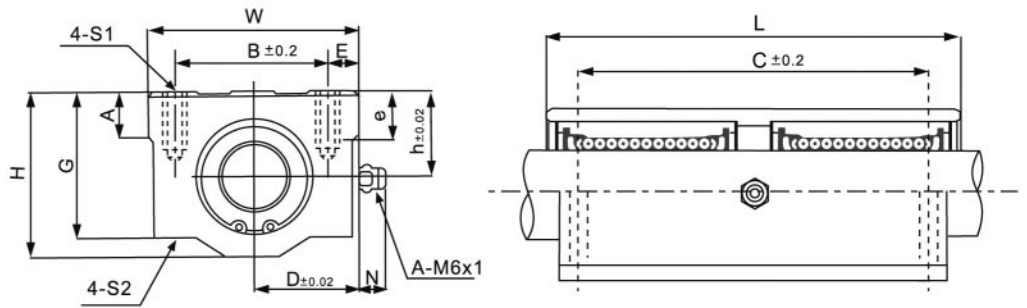


型号 Part No.	主要尺寸和公差 Main dimensions (mm)											额定负荷 Basic Load Rating		重量 Weight (g)	
	h	D	W	H	G	A	B	E	S1xe	S2	C	L	C N		Co N
SC8UU	11	17	34	22	18	6	24	5	M4X8	3.4	18	30	274	392	52
SC10UU	13	20	40	26	21	8	28	6	M5X12	4.3	21	35	372	549	92
SC12UU	15	21	42	28	24	8	30.5	5.75	M5X12	4.3	26	36	510	784	102
SC13UU	15	22	44	30	24.5	8	33	5.5	M5X12	4.3	26	39	510	784	120
SC16UU	19	25	50	38.5	32.5	9	36	7	M5X12	4.3	34	44	774	1180	200
SC20UU	21	27	54	41	35	11	40	7	M6X12	5.2	40	50	882	1370	255
SC25UU	26	38	76	51.5	42	12	54	11	M8X18	7	50	67	980	1570	600
SC30UU	30	39	78	59.5	49	15	58	10	M8X18	7	58	72	1574	2740	735
SC35UU	34	45	90	68	54	18	70	10	M8X18	7	60	80	1670	3140	1100
SC40UU	40	51	102	78	62	20	80	11	M10X25	8.7	60	90	2160	4020	1590
SC50UU	52	61	122	102	80	25	100	11	M10X25	8.7	80	110	3820	7940	3340

# SC\_L系列

## Slide unit SC\_L Series

(SMA\_W Type)



型号 Part No.	主要尺寸和公差 Main dimensions (mm)												额定负荷 Basic Load Rating		重量 Weight (g)	
	h	D	W	H	G	N	A	B	E	S1xe	S2	C	L	C N		Co N
SC8LUU	11	17	34	22	18	7	6	24	5	M4x8	3.4	42	58	431	784	102
SC10LUU	13	20	40	26	21	7	8	28	6	M5X12	4.3	46	68	588	1100	180
SC12LUU	15	21	42	28	24	6.5	8	30.5	5.75	M5X12	4.3	50	70	813	1570	250
SC13LUU	15	22	44	30	24.5	6.5	8	33	5.5	M5X12	4.3	50	75	813	1570	240
SC16LUU	19	25	50	38.5	32.5	6	9	36	7	M5X12	4.3	60	85	1230	2350	400
SC20LUU	21	27	54	41	35	7	11	40	7	M6X12	5.2	70	96	1410	2740	570
SC25LUU	26	38	76	51.5	42	4	12	54	11	M8X18	7	100	130	1610	3140	1200
SC30LUU	30	39	78	59.5	49	5	15	58	10	M8X18	7	110	140	2450	5490	1480
SC35LUU	34	45	90	68	54	5.5	18	70	10	M8X18	7	120	155	2650	6270	2200
SC40LUU	40	51	102	78	62	5	20	80	11	M10X25	8.7	140	175	3430	8040	3200
SC50LUU	52	61	122	102	80	5	25	100	11	M10X25	8.7	160	215	6080	15900	6700

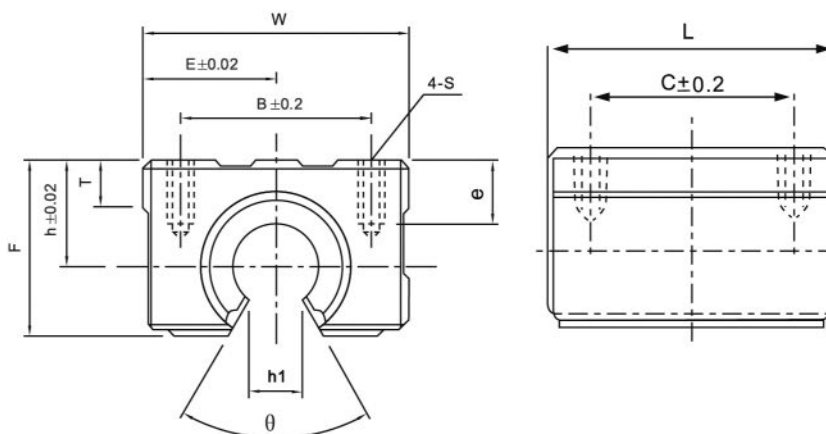


# SME系列

## Slide Unit SME Series



SME



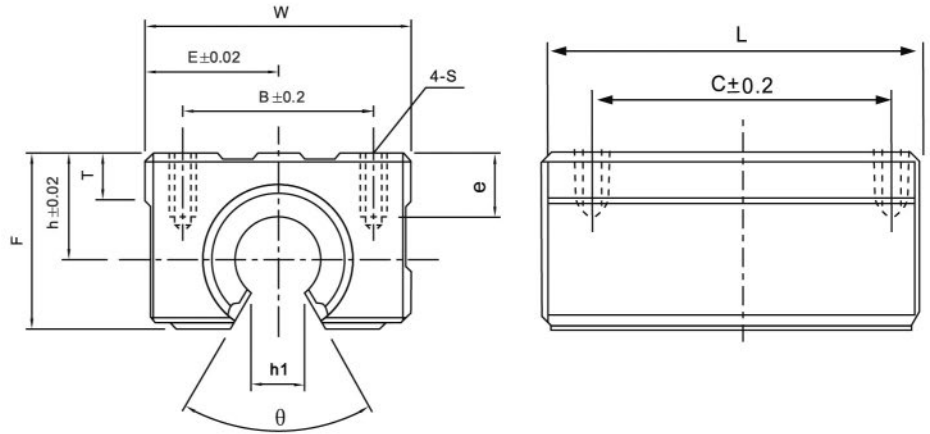
型号 Part No.	主要尺寸和公差 Main dimensions (mm)											内装轴承 Slide Bush	额定负荷 Basic Load Rating		重量 Weight (g)
	h	D	W	L	F	T	h1	$\theta$	B	C	Sxe		C N	Co N	
SME16UU	20	22.5	45	45	33	9	10	80°	32	30	M5x12	LM16UU-OP	774	1180	150
SME20UU	23	24	48	50	39	11	10	60°	35	35	M6x12	LM20UU-OP	882	1370	200
SME25UU	27	30	60	65	47	14	11.5	50°	40	40	M6x12	LM25UU-OP	980	1570	450
SME30UU	33	35	70	70	56	15	14	50°	50	50	M8x18	LM30UU-OP	1570	2740	630
SME35UU	37	40	80	80	63	18	16	50°	55	55	M8x18	LM35UU-OP	1670	3140	925
SME40UU	42	45	90	90	72	20	19	50°	65	65	M10x20	LM40UU-OP	2160	4020	1330
SME50UU	53	60	120	110	92	25	23	50°	94	80	M10x20	LM50UU-OP	3820	7940	3000

# SME\_L系列

## Slide Unit SME\_L Series



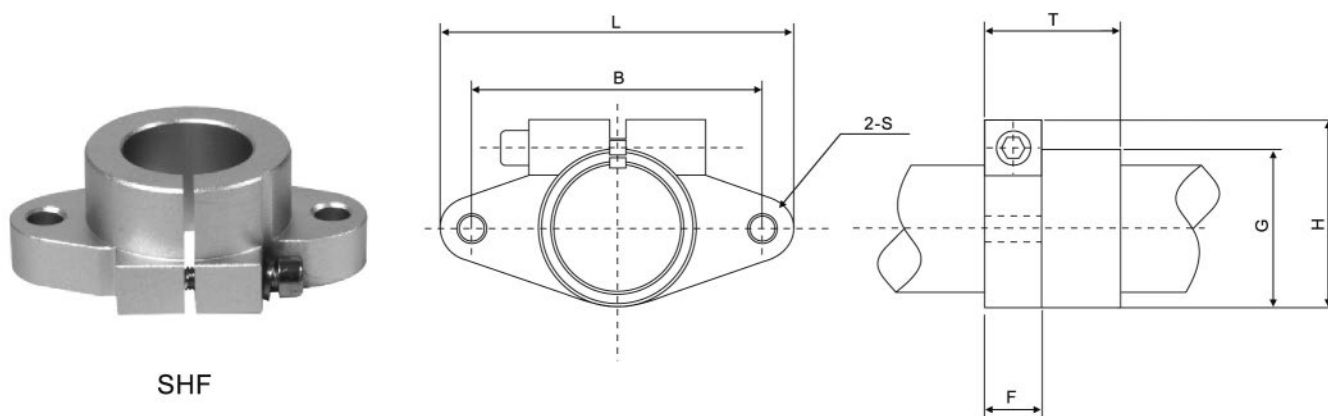
SME□L



型号 Part No.	主要尺寸和公差 Main dimensions (mm)											内装轴承 Slide Bush	额定负荷 Basic Load Rating		重量 Weight (g)
	h	D	W	L	F	T	h1	θ	B	C	Sxe		C N	Co N	
SME16LUU	20	22.5	45	85	33	9	10	80°	32	60	M5x12	LM16UU-OPx2	1230	2350	300
SME20LUU	23	24	48	95	39	11	10	60°	35	70	M6x12	LM20UU-OPx2	1400	2740	400
SME25LUU	27	30	60	130	47	14	11.5	50°	40	90	M6x12	LM25UU-OPx2	1560	3140	900
SME30LUU	33	35	70	140	56	15	14	50°	50	100	M8x18	LM30UU-OPx2	2490	5490	1260

# SHF系列

## Slide Unit SHF Series



型号 Part No.	轴径 Shaft diameter	主要尺寸和公差 Main dimensions (mm)							夹紧螺栓 型号 Clamping bolt designation	安装螺栓 型号 Mounting bolt designation	重量 Weight (g)
		L	T	F	B	G	H	S			
SHF-10	10	43	10	5	32	20	24	5.5	M5	M4	13
SHF-12	12	47	13	7	36	25	28	5.5	M5	M4	20
SHF-13	13	47	13	7	36	25	28	5.5	M5	M4	20
SHF-16	16	50	16	8	40	28	31	5.5	M5	M4	27
SHF-20	20	60	20	8	48	34	37	7	M6	M5	40
SHF-25	25	70	25	10	56	40	42	7	M6	M5	60
SHF-30	30	80	30	12	64	46	50	9	M8	M6	110
SHF-35	35	92	35	14	72	50	58	12	M10	M8	380
SHF-40	40	105	40	16	80	56	67	12	M10	M10	510
SHF-50	50	122	50	19	96	70	83	14	M12	M12	890

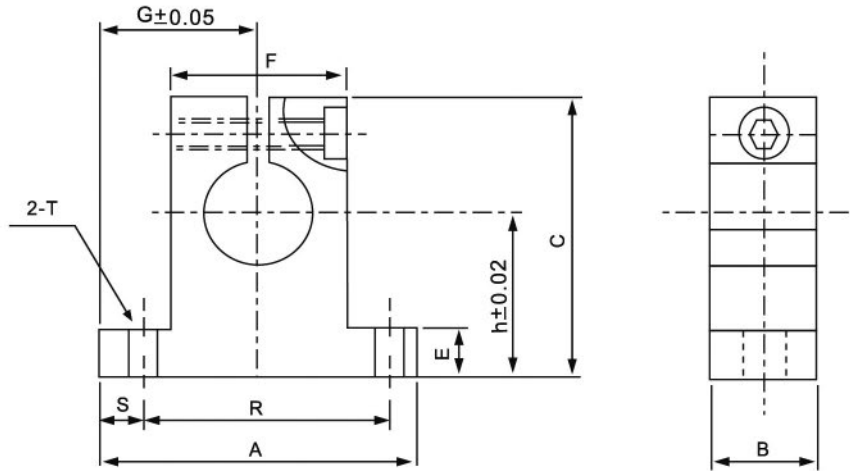
# SK系列

## Slide Unit SK series

(SH-A Type)



SK

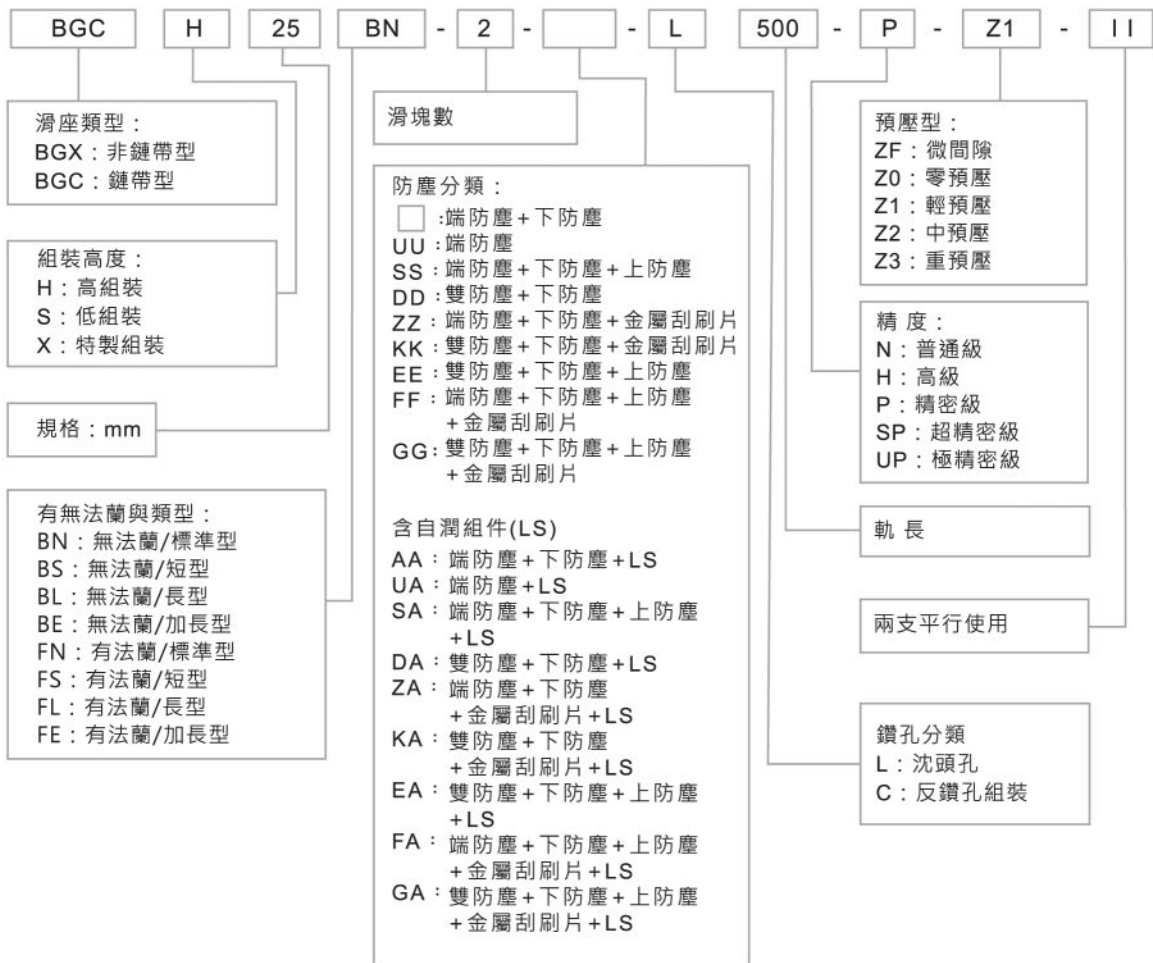
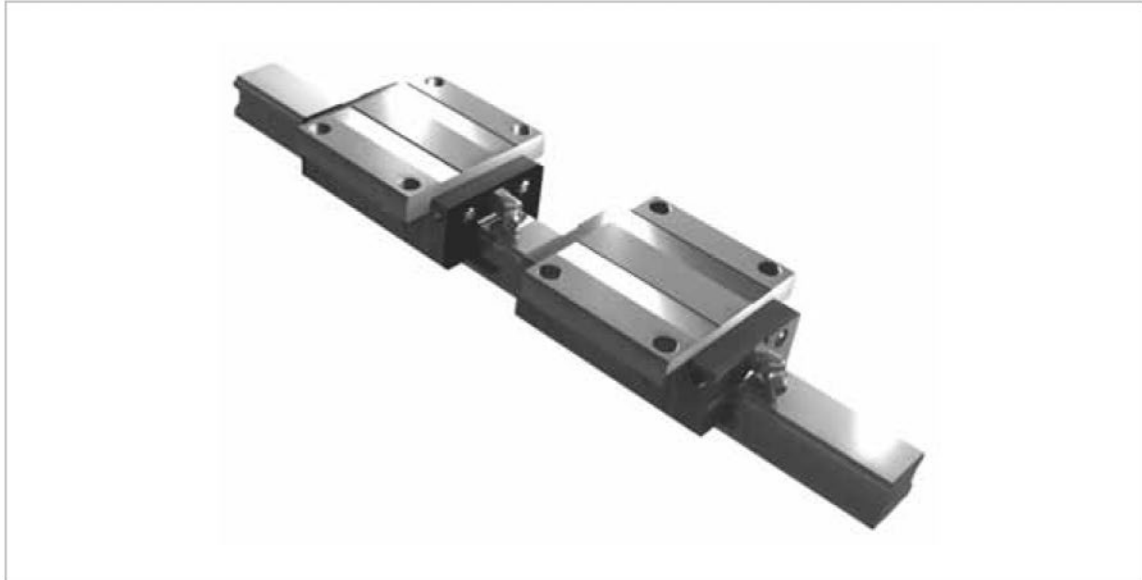


型号 Part No.	轴径 Shaft diameter	主要尺寸和公差 Main dimensions (mm)										夹紧螺栓 型号 Clamping bolt designation	安装螺栓 型号 Mounting bolt designation	重量 Weight (g)
		h	G	A	B	C	E	F	R	S	T			
SK-8	8	20	21	42	14	32.8	6	18	32	5	5.5	M4	M5	24
SK-10	10	20	21	42	14	32.8	6	18	32	5	5.5	M4	M5	24
SK-12	12	23	21	42	14	37.5	6	20	32	5	5.5	M4	M5	30
SK-13	13	23	21	42	14	37.5	6	20	32	5	5.5	M4	M5	30
SK-16	16	27	24	48	16	44	8	25	38	5	5.5	M4	M5	40
SK-20	20	31	30	60	20	51	10	30	45	7.5	6.6	M5	M6	70
SK-25	25	35	35	70	24	60	12	38	56	7	6.6	M6	M6	130
SK-30	30	42	42	84	28	70	12	44	64	10	9	M6	M8	180
SK-35	35	50	49	98	32	82	15	50	74	12	11	M8	M10	270
SK-40	40	60	57	114	36	96	15	60	90	12	11	M8	M10	420
SK-50	50	70	63	126	40	120	18	74	100	13	14	M12	M12	750

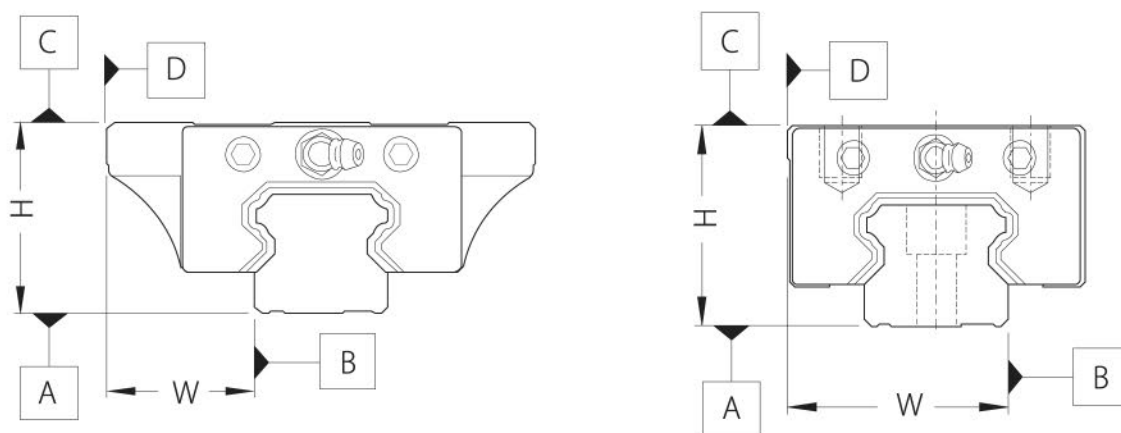


### 3. 線性滑軌

產品編碼原則

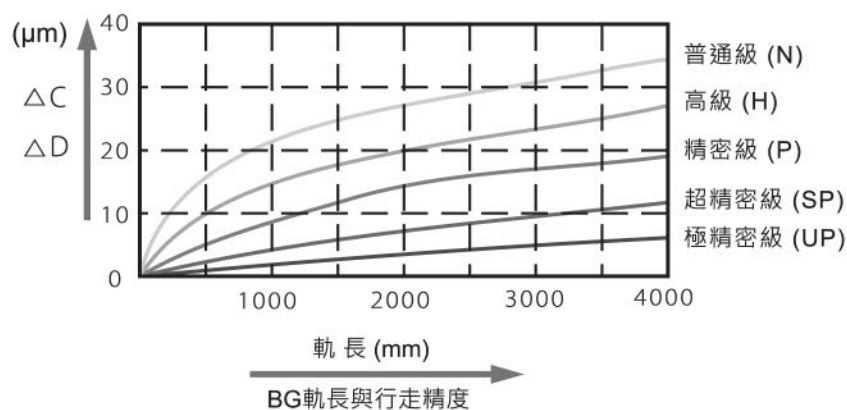


### a. 精度標準

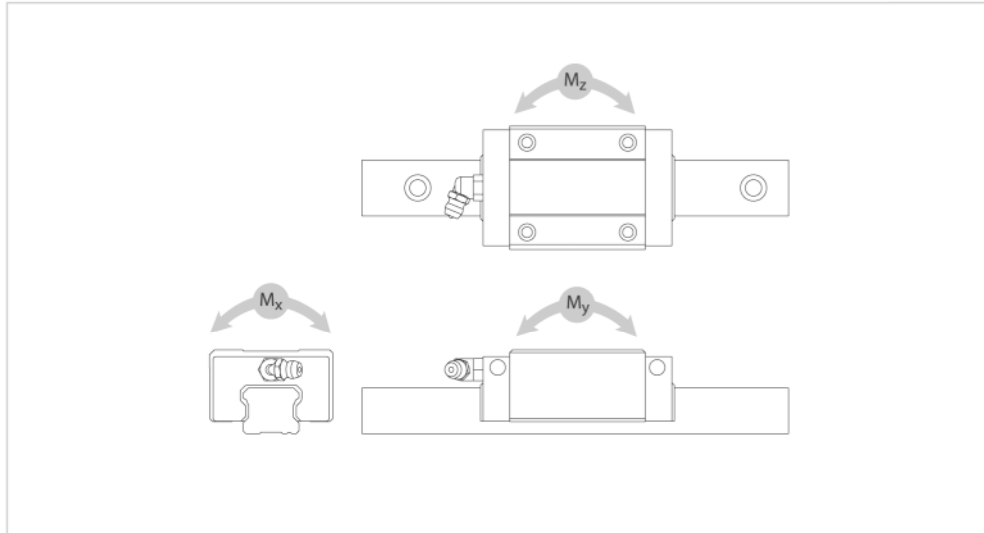


單位: mm

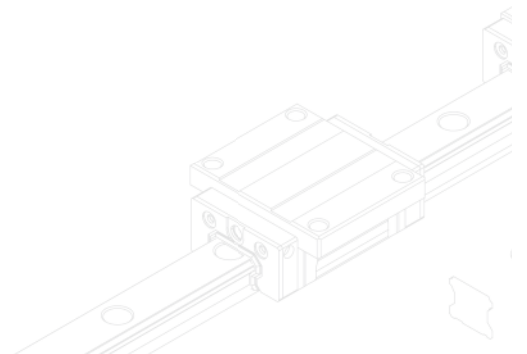
項次 \ 等級	普通級 (N)	高級 (H)	精密級 (P)	超精密級 (SP)	極精密級 (UP)
組合高誤差 (H)	±0.1	±0.04	0 -0.04	0 -0.02	0 -0.01
組合寬誤差 (W)	±0.1	±0.04	0 -0.04	0 -0.02	0 -0.01
成對高度相互誤差 ( $\Delta H$ )	0.03	0.02	0.01	0.005	0.003
成對寬度相互誤差 ( $\Delta W$ )	0.03	0.02	0.01	0.005	0.003
滑座 C 面對軌道 A 面的行走精度	$\Delta C$ 參考圖BG軌長與行走精度				
滑座 D 面對軌道 B 面的行走精度	$\Delta D$ 參考圖BG軌長與行走精度				



g. BGC 線性滑軌之基本容許靜力矩

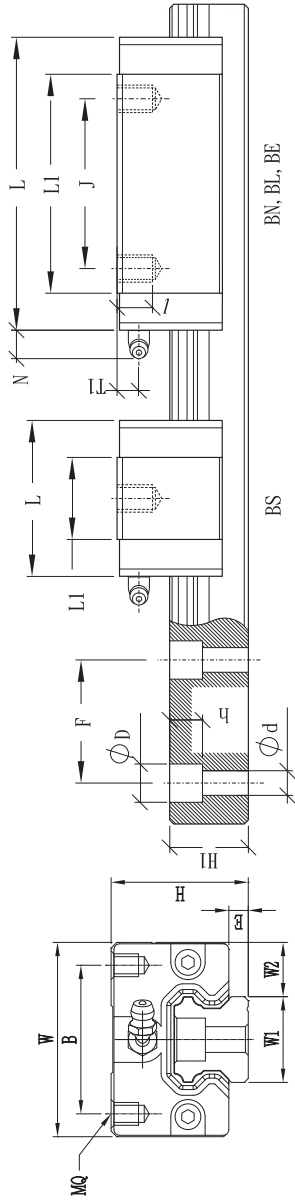


計算線性滑軌所受的負載時，單軌與雙軌考量方式不同，單軌計算方式需考慮外力對於滑座三軸力矩，必須使用基本容許靜力矩才可計算等效負載。





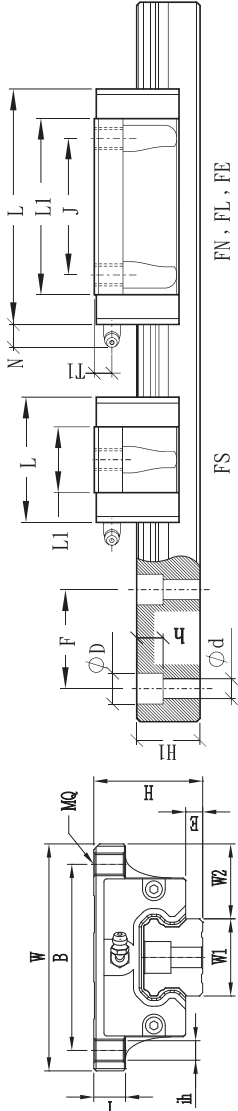
# 4-10 BGX/BGC 規格尺寸表



BGX/BGC 規格尺寸表 (S-B)

型號	組裝規格-mm						滑塊-mm										滑軌-mm						額定負載-kN			靜額定力矩-kN·m			滑塊	滑軌
	H	W	W2	E	L	B	J	MQ	I	L1	Oil H	T1	N	W1	H1	F	d	D	h	C-BGX	C-BGC	C0-BGX	C0-BGC	Mx	My	Mz	Mz	kg	kg/m	
S15BS	24	34	9.5	3.4	40.6	26		M4	4.8	22.2	M4X0.7	5.5	(5.7)	15	13.0	60	4.5	7.5	5.5	6.9	5.7	10.8	9.8	0.068	0.032	0.032	0.032	0.10	1.28	
S15BN	24	34	9.5	3.4	58.6	26	26	M4	4.8	40.2	M4X0.7	5.5	(5.7)	15	13.0	60	4.5	7.5	5.5	13.0	11.5	21.6	19.6	0.136	0.117	0.117	0.117	0.17	1.28	
S15BL	24	34	9.5	3.4	66.1	26	26	M4	4.8	47.7	M4X0.7	5.5	(5.7)	15	13.0	60	4.5	7.5	5.5	14.1	13.9	26.1	23.7	0.164	0.169	0.169	0.169	0.18	1.28	
S20BS	28	42	11.0	4.5	49.1	32		M5	5.5	27.5	M6X1.0	5.1	(12.3)	20	16.3	60	6.0	9.5	8.5	11.1	9.1	17.3	15.7	0.146	0.064	0.064	0.064	0.17	2.15	
S20BN	28	42	11.0	4.5	70.1	32	32	M5	5.5	48.5	M6X1.0	5.1	(12.3)	20	16.3	60	6.0	9.5	8.5	21.5	17.7	33.6	30.5	0.285	0.220	0.220	0.220	0.26	2.15	
S25BS	33	48	12.5	5.8	54.0	35		M6	6.8	32.3	M6X1.0	7.2	(12.2)	23	19.2	60	7.0	11.0	9.0	15.5	12.7	23.1	21	0.225	0.101	0.101	0.101	0.21	2.88	
S25BN	33	48	12.5	5.8	79.2	35	35	M6	6.8	57.5	M6X1.0	7.2	(12.2)	23	19.2	60	7.0	11.0	9.0	28.1	24.8	45.2	41.1	0.440	0.352	0.352	0.352	0.38	2.88	
X25BN	36	48	12.5	5.8	79.2	35	35	M6	9.0	57.5	M6X1.0	10.2	(12.2)	23	19.2	60	7.0	11.0	9.0	28.1	24.8	45.2	41.1	0.440	0.352	0.352	0.352	0.40	2.88	
X25BL	36	48	12.5	5.8	93.9	35	35	M6	9.0	72.2	M6X1.0	10.2	(12.2)	23	19.2	60	7.0	11.0	9.0	33.7	31.9	58.1	52.8	0.566	0.568	0.568	0.568	0.54	2.88	
X25BE	36	48	12.5	5.8	108.6	35	50	M6	9.0	86.9	M6X1.0	10.2	(12.2)	23	19.2	60	7.0	11.0	9.0	38.0	36.0	69.6	63.3	0.679	0.819	0.819	0.819	0.67	2.88	
S30BS	42	60	16.0	7.0	64.2	40		M8	10.0	37.2	M6X1.0	10	(11.7)	28	22.8	80	9.0	14.0	12.0	22.1	18.2	29.7	27	0.350	0.150	0.150	0.150	0.50	4.45	
S30BN	42	60	16.0	7.0	94.8	40	40	M8	10.0	67.8	M6X1.0	10	(11.7)	28	22.8	80	9.0	14.0	12.0	41.6	36.7	60.1	54.6	0.706	0.551	0.551	0.551	0.80	4.45	
S30BL	42	60	16.0	7.0	105.0	40	40	M8	10.0	78.0	M6X1.0	10	(11.7)	28	22.8	80	9.0	14.0	12.0	48.1	47.5	77.8	70.7	0.915	0.821	0.821	0.821	0.94	4.45	
S30BE	42	60	16.0	7.0	130.5	40	60	M8	10.0	103.5	M6X1.0	10	(11.7)	28	22.8	80	9.0	14.0	12.0	57.9	52.9	95.4	86.7	1.122	1.336	1.336	1.336	1.16	4.45	
S35BS	48	70	18.0	7.5	75.5	50		M8	10.0	44.5	M6X1.0	11.5	(11.5)	34	26.0	80	9.0	14.0	12.0	31.8	26.2	44.8	40.7	0.643	0.269	0.269	0.269	0.80	6.25	
S35BN	48	70	18.0	7.5	111.5	50	50	M8	10.0	80.5	M6X1.0	11.5	(11.5)	34	26.0	80	9.0	14.0	12.0	59.4	52.3	89.2	81.1	1.282	0.972	0.972	0.972	1.20	6.25	
S35BL	48	70	18.0	7.5	123.5	50	50	M8	10.0	92.5	M6X1.0	11.5	(11.5)	34	26.0	80	9.0	14.0	12.0	68.8	65.4	111.5	101.4	1.602	1.396	1.396	1.396	1.40	6.25	
S35BE	48	70	18.0	7.5	153.5	50	72	M8	10.0	122.5	M6X1.0	11.5	(11.5)	34	26.0	80	9.0	14.0	12.0	81.6	71.9	137.8	125.3	1.981	2.286	2.286	2.286	1.84	6.25	
S45BN	60	86	20.5	8.9	129.0	60	60	M10	15.5	94.0	M8X1.25	14.4	(10.8)	45	31.1	105	14.0	20.0	17.0	81.2	71.6	119.8	108.9	2.300	1.524	1.524	1.524	1.64	9.60	
S45BL	60	86	20.5	8.9	145.0	60	60	M10	15.5	110.0	M8X1.25	14.4	(10.8)	45	31.1	105	14.0	20.0	17.0	89.7	85.1	142.5	129.5	2.736	2.122	2.122	2.122	1.93	9.60	
S45BE	60	86	20.5	8.9	174.0	60	80	M10	15.5	139.0	M8X1.25	14.4	(10.8)	45	31.1	105	14.0	20.0	17.0	103.6	98.4	179.6	163.3	3.449	3.379	3.379	3.379	2.42	9.60	
S55BN	70	100	23.5	12.7	155.0	75	75	M12	18.0	116.0	M8X1.25	14.0	(10.8)	53	38.0	120	16.0	23.0	20.0	104.7	86.2	146.7	133.4	3.303	2.304	2.304	2.304	2.67	13.80	
S55BL	70	100	23.5	12.7	193.0	75	75	M12	18.0	154.0	M8X1.25	14.0	(10.8)	53	38.0	120	16.0	23.0	20.0	131.9	116.3	196.8	178.9	4.428	4.101	4.101	4.101	3.57	13.80	
S55BE	70	100	23.5	12.7	210.0	75	95	M12	18.0	171.0	M8X1.25	14.0	(10.8)	53	38.0	120	16.0	23.0	20.0	166.0	157.7	279.0	253.6	6.279	6.458	6.458	6.458	3.97	13.80	

# 線性滑軌BG Series

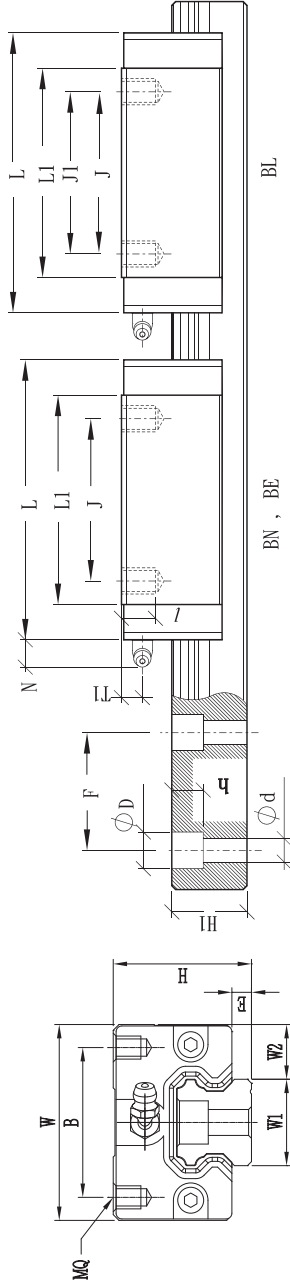


## BGX/BGC 規格尺寸表 (H-F)(S-F)

◎:有需求者請洽本公司業務單位。

型號	組裝規格-mm							滑塊-mm							滑軌-mm							額定負載-kN				靜額定力矩 - kN·m			滑塊 kg	滑軌 kg/m
	H	W	W2	E	L	B	J	MQ	ih	I	L1	OilH	T1	N	W1	H1	F	d	D	h	C-BGX	C0-BGX	C0-BGC	Mx	My	Mz				
H15FN	24	47	16.0	3.4	58.6	38	30	M5	4.4	7.5	40.2	M4X0.7	5.5 (5.7)	15	13.0	60	4.5	7.5	5.5	5.5	13.0	11.5	19.6	0.136	0.117	0.117	0.21	1.28		
H15FL	24	47	16.0	3.4	66.1	38	30	M5	4.4	7.5	47.7	M4X0.7	5.5 (5.7)	15	13.0	60	4.5	7.5	5.5	5.5	14.1	13.9	23.7	0.164	0.169	0.169	0.23	1.28		
S15FS	24	52	18.5	3.4	40.6	41		M5	4.4	7.5	22.2	M4X0.7	5.5 (5.7)	15	13.0	60	4.5	7.5	5.5	5.5	6.9	5.7	10.8	0.088	0.032	0.032	0.12	1.28		
S15FN	24	52	18.5	3.4	58.6	41	26	M5	4.4	7.5	40.2	M4X0.7	5.5 (5.7)	15	13.0	60	4.5	7.5	5.5	5.5	13.0	11.5	19.6	0.136	0.117	0.117	0.19	1.28		
H20FN	30	63	21.5	4.5	70.1	53	40	M6	5.4	9.0	48.5	M6X1	7.1 (12.3)	20	16.3	60	6.0	9.5	8.5	8.5	21.5	17.7	33.6	0.285	0.220	0.220	0.40	2.15		
H20FL	30	63	21.5	4.5	82.9	53	40	M6	5.4	9.0	61.3	M6X1	7.1 (12.3)	20	16.3	60	6.0	9.5	8.5	8.5	26.0	23.0	43.5	0.369	0.361	0.361	0.46	2.15		
H20FE	30	63	21.5	4.5	98.1	53	40	M6	5.4	9.0	76.5	M6X1	7.1 (12.3)	20	16.3	60	6.0	9.5	8.5	8.5	30.9	27.3	53.8	0.456	0.557	0.557	0.61	2.15		
S20FS	28	59	19.5	4.5	49.1	49		M6	5.4	7.0	27.5	M6X1	5.1 (12.3)	20	16.3	60	6.0	9.5	8.5	8.5	11.1	9.1	17.3	0.225	0.101	0.101	0.18	2.15		
S20FN	28	59	19.5	4.5	70.1	49	32	M6	5.4	7.0	48.5	M6X1	5.1 (12.3)	20	16.3	60	6.0	9.5	8.5	8.5	21.5	17.7	33.6	0.285	0.220	0.220	0.31	2.15		
H25FN	36	70	23.5	5.8	79.2	57	45	M8	6.8	10.1	57.5	M6X1	10.2 (12.2)	23	19.2	60	7.0	11.0	9.0	9.0	28.1	24.8	45.2	0.440	0.352	0.352	0.57	2.88		
H25FL	36	70	23.5	5.8	93.9	57	45	M8	6.8	10.1	72.2	M6X1	10.2 (12.2)	23	19.2	60	7.0	11.0	9.0	9.0	33.7	31.9	58.1	0.566	0.568	0.568	0.72	2.88		
H25FE	36	70	23.5	5.8	108.6	57	45	M8	6.8	10.1	86.9	M6X1	10.2 (12.2)	23	19.2	60	7.0	11.0	9.0	9.0	38.0	36.0	69.6	0.679	0.819	0.819	0.89	2.88		
S25FS	33	73	25.0	5.8	54.0	60		M8	6.8	7.1	32.3	M6X1	7.2 (12.3)	23	19.2	60	7.0	11.0	9.0	9.0	15.5	12.7	23.1	0.225	0.101	0.101	0.33	2.88		
S25FN	33	73	25.0	5.8	79.2	60	35	M8	6.8	7.1	57.5	M6X1	7.2 (12.3)	23	19.2	60	7.0	11.0	9.0	9.0	28.1	24.8	45.2	0.440	0.352	0.352	0.50	2.88		
H30FS	42	90	31.0	7.0	64.2	72		M10	8.6	12.0	37.2	M6X1	10 (11.7)	28	22.8	80	9.0	14.0	12.0	12.0	22.1	18.2	29.7	0.350	0.150	0.150	0.80	4.45		
H30FN	42	90	31.0	7.0	94.8	72	52	M10	8.6	12.0	67.8	M6X1	10 (11.7)	28	22.8	80	9.0	14.0	12.0	12.0	41.6	36.7	60.1	0.706	0.551	0.551	1.10	4.45		
H30FL	42	90	31.0	7.0	105.0	72	52	M10	8.6	12.0	78.0	M6X1	10 (11.7)	28	22.8	80	9.0	14.0	12.0	12.0	48.1	47.5	77.8	0.915	0.821	0.821	1.34	4.45		
H30FE	42	90	31.0	7.0	130.5	72	52	M10	8.6	12.0	103.5	M6X1	10 (11.7)	28	22.8	80	9.0	14.0	12.0	12.0	57.9	52.9	95.4	1.122	1.336	1.336	1.66	4.45		
H35FS	48	100	33.0	7.5	75.5	82		M10	8.6	14.0	44.5	M6X1	11.5 (11.5)	34	26.0	80	9.0	14.0	12.0	12.0	31.8	26.2	44.8	0.643	0.269	0.269	1.00	6.25		
H35FN	48	100	33.0	7.5	111.5	82	62	M10	8.6	14.0	80.5	M6X1	11.5 (11.5)	34	26.0	80	9.0	14.0	12.0	12.0	59.4	52.3	89.2	1.282	0.972	0.972	1.50	6.25		
H35FL	48	100	33.0	7.5	123.5	82	62	M10	8.6	14.0	92.5	M6X1	11.5 (11.5)	34	26.0	80	9.0	14.0	12.0	12.0	68.8	65.4	111.5	1.602	1.396	1.396	1.90	6.25		
H35FE	48	100	33.0	7.5	153.5	82	62	M10	8.6	14.0	122.5	M6X1	11.5 (11.5)	34	26.0	80	9.0	14.0	12.0	12.0	81.6	71.9	137.8	1.981	2.286	2.286	2.54	6.25		
H45FN	60	120	37.5	8.9	129.0	100	80	M12	10.6	16.0	94.0	M8X1.25	14.4 (10.8)	45	31.1	105	14.0	20.0	17.0	17.0	81.2	71.6	119.8	2.300	1.524	1.524	2.27	9.60		
H45FL	60	120	37.5	8.9	145.0	100	80	M12	10.6	16.0	110.0	M8X1.25	14.4 (10.8)	45	31.1	105	14.0	20.0	17.0	17.0	89.7	85.1	142.5	2.736	2.122	2.122	2.68	9.60		
H45FE	60	120	37.5	8.9	174.0	100	80	M12	10.6	16.0	139.0	M8X1.25	14.4 (10.8)	45	31.1	105	14.0	20.0	17.0	17.0	103.6	98.4	179.6	3.449	3.379	3.379	3.42	9.60		
H55FN	70	140	43.5	12.7	155.0	116	95	M14	12.6	19.0	116.0	M8X1.25	14.0 (10.8)	53	38.0	120	16.0	23.0	20.0	20.0	104.7	86.2	146.7	3.303	2.304	2.304	3.44	13.80		
H55FL	70	140	43.5	12.7	193.0	116	95	M14	12.6	19.0	154.0	M8X1.25	14.0 (10.8)	53	38.0	120	16.0	23.0	20.0	20.0	131.9	116.3	196.8	4.428	4.101	4.101	4.63	13.80		
H55FE	70	140	43.5	12.7	210.0	116	95	M14	12.6	19.0	171.0	M8X1.25	14.0 (10.8)	53	38.0	120	16.0	23.0	20.0	20.0	166.0	157.7	279.0	6.279	6.458	6.458	5.16	13.80		

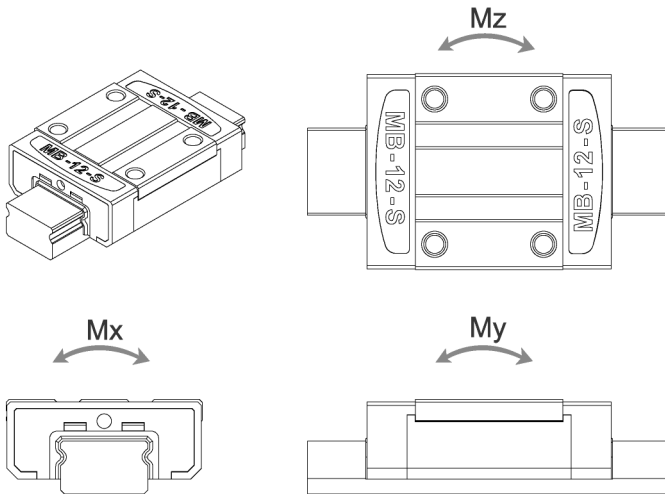
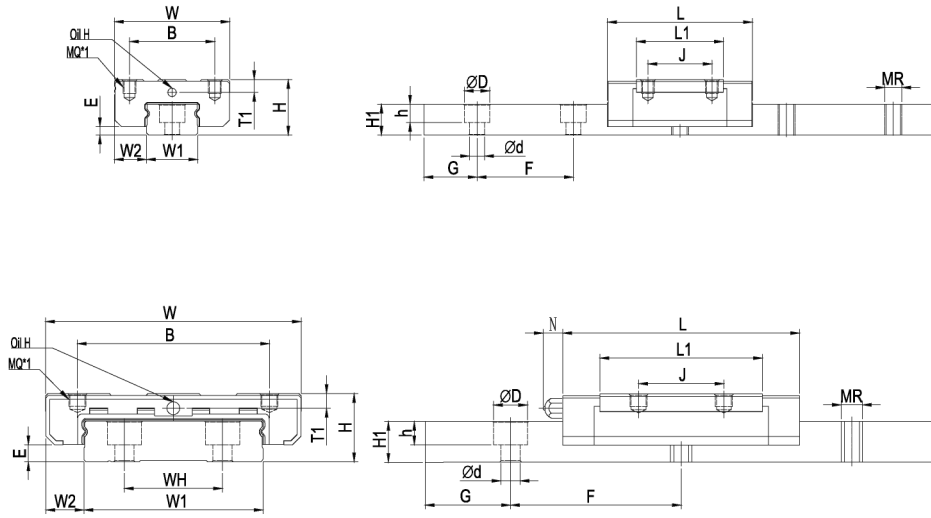
## BGX/BGC 規格尺寸表 (H-B)



※ BL : BGX → J1 ; BGC → J

型號	組裝規格-mm				滑塊-mm										滑軌-mm				額定負載-kN				靜額定力矩 - kN·m			滑塊	滑軌		
	H	W	W2	E	L	B	J	J1	MQ	I	L1	OilH	T1	N	W1	H1	F	d	D	h	C-BGX	C-BGC	CO-BGX	CO-BGC	M <sub>x</sub>	M <sub>y</sub>	M <sub>z</sub>	kg	kg/m
H15BN	28	34	9.5	3.4	58.6	26	26	M4	6.0	40.2	M4X0.7	9.5	(5.7)	15	13.0	60	4.5	7.5	5.5	13.0	11.5	17.7	21.6	19.6	0.136	0.117	0.117	0.19	1.28
H20BN	30	44	12.0	4.5	70.1	32	36	M5	6.5	48.5	M6X1	7.1	(12.3)	20	16.3	60	6.0	9.5	8.5	21.5	17.7	33.6	30.5	0.285	0.220	0.220	0.31	2.15	
H20BL	30	44	12.0	4.5	82.9	32	36	M5	6.5	61.3	M6X1	7.1	(12.3)	20	16.3	60	6.0	9.5	8.5	26.0	23.0	43.5	39.5	0.369	0.361	0.361	0.36	2.15	
H20BE	30	44	12.0	4.5	98.1	32	50	M5	6.5	76.5	M6X1	7.1	(12.3)	20	16.3	60	6.0	9.5	8.5	30.9	27.3	53.8	48.9	0.456	0.557	0.557	0.47	2.15	
H25BN	40	48	12.5	5.8	79.2	35	35	M6	9.0	57.5	M6X1	14.2	(12.2)	23	19.2	60	7.0	11.0	9.0	28.1	24.8	45.2	41.1	0.440	0.352	0.352	0.45	2.88	
H25BL	40	48	12.5	5.8	93.9	35	35	M6	9.0	72.2	M6X1	14.2	(12.2)	23	19.2	60	7.0	11.0	9.0	33.7	31.9	58.1	52.8	0.566	0.568	0.568	0.66	2.88	
H25BE	40	48	12.5	5.8	108.6	35	50	M6	9.0	86.9	M6X1	14.2	(12.2)	23	19.2	60	7.0	11.0	9.0	38.0	36.0	69.6	63.3	0.679	0.819	0.819	0.80	2.88	
H30BN	45	60	16.0	7.0	94.8	40	40	M8	12.0	67.8	M6X1	13	(11.7)	28	22.8	80	9.0	14.0	12.0	41.6	36.7	60.1	54.6	0.706	0.551	0.551	0.91	4.45	
H30BL	45	60	16.0	7.0	105.0	40	40	M8	12.0	78.0	M6X1	13	(11.7)	28	22.8	80	9.0	14.0	12.0	48.1	47.5	77.8	70.7	0.915	0.821	0.821	1.04	4.45	
H30BE	45	60	16.0	7.0	130.5	40	60	M8	12.0	103.5	M6X1	13	(11.7)	28	22.8	80	9.0	14.0	12.0	57.9	52.9	95.4	86.7	1.122	1.336	1.336	1.36	4.45	
H35BN	55	70	18.0	7.5	111.5	50	50	M8	12.0	80.5	M6X1	18.5	(11.5)	34	26.0	80	9.0	14.0	12.0	59.4	52.3	89.2	81.1	1.282	0.972	0.972	1.50	6.25	
H35BL	55	70	18.0	7.5	123.5	50	50	M8	12.0	92.5	M6X1	18.5	(11.5)	34	26.0	80	9.0	14.0	12.0	68.8	65.4	111.5	101.4	1.602	1.396	1.396	1.80	6.25	
H35BE	55	70	18.0	7.5	153.5	50	72	M8	12.0	122.5	M6X1	18.5	(11.5)	34	26.0	80	9.0	14.0	12.0	81.6	71.9	137.8	125.3	1.981	2.286	2.286	2.34	6.25	
H45BN	70	86	20.5	8.9	129.0	60	60	M10	18.0	94.0	M8X1.25	24.4	(10.8)	45	31.1	105	14.0	20.0	17.0	81.2	71.6	119.8	108.9	2.300	1.524	1.524	2.28	9.60	
H45BL	70	86	20.5	8.9	145.0	60	80	M10	18.0	110.0	M8X1.25	24.4	(10.8)	45	31.1	105	14.0	20.0	17.0	89.7	85.1	142.5	129.5	2.736	2.122	2.122	2.67	9.60	
H45BE	70	86	20.5	8.9	174.0	60	80	M10	18.0	139.0	M8X1.25	24.4	(10.8)	45	31.1	105	14.0	20.0	17.0	103.6	98.4	179.6	163.3	3.449	3.379	3.379	3.35	9.60	
H55BN	80	100	23.5	12.7	155.0	75	75	M12	22.0	116.0	M8X1.25	24.0	(10.8)	53	38.0	120	16.0	23.0	20.0	104.7	86.2	146.7	133.4	3.303	2.304	2.304	3.42	13.80	
H55BL	80	100	23.5	12.7	193.0	75	95	M12	22.0	154.0	M8X1.25	24.0	(10.8)	53	38.0	120	16.0	23.0	20.0	131.9	116.3	196.8	178.9	4.428	4.101	4.101	4.57	13.80	
H55BE	80	100	23.5	12.7	210.0	75	95	M12	22.0	171.0	M8X1.25	24.0	(10.8)	53	38.0	120	16.0	23.0	20.0	166.0	157.7	279.0	253.6	6.279	6.458	6.458	5.08	13.80	

# 微型線性滑軌



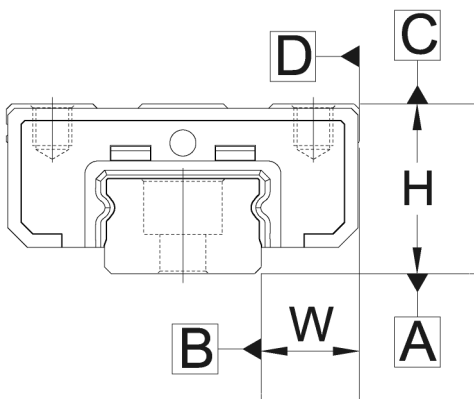
## MB系列規格尺寸表 >>> MB

型號	組裝規格 - mm				滑塊			
	H	W	W2	E	L	B	J	MQ
MBX07SN	8	17	5	1.5	24	12	8	M2
MBX09SN	10	20	5.5	2.2	30.8	15	10	M3
MBX09SL	10	20	5.5	2.2	40.5	15	16	M3
MBX12SN	13	27	7.5	2	34	20	15	M3
MBX12SL	13	27	7.5	2	47	20	20	M3
MBX15SN	16	32	8.5	4	42	25	20	M3
MBX15SL	16	32	8.5	4	59.8	25	25	M3
MBX09WN	12	30	6	3.4	39	21	12	M3
MBX09WL	12	30	6	3.4	51	23	24	M3
MBX12WN	14	40	8	3.8	44.5	28	15	M3
MBX12WL	14	40	8	3.8	59.1	28	28	M3
MBX15WN	16	60	9	4	55.5	45	20	M4
MBX15WL	16	60	9	4	74.7	45	35	M4

## MB系列規格尺寸表 >>> MB

型號	組裝規格 - mm				滑塊			
	H	W	W2	E	L	B	J	MQ
MBC09SN	10	20	5.5	2.2	30.8	15	10	M3
MBC09SL	10	20	5.5	2.2	40.5	15	16	M3
MBC12SN	13	27	7.5	2	34	20	15	M3
MBC12SL	13	27	7.5	2	47	20	20	M3
MBC15SN	16	32	8.5	4	42	25	20	M3
MBC15SL	16	32	8.5	4	59.8	25	25	M3
MBC09WN	12	30	6	3.4	39	21	12	M3
MBC09WL	12	30	6	3.4	51	23	24	M3
MBC12WN	14	40	8	3.8	44.5	28	15	M3
MBC12WL	14	40	8	3.8	59.1	28	28	M3
MBC15WN	16	60	9	4	55.5	45	20	M4
MBC15WL	16	60	9	4	74.7	45	35	M4

## MB系列 >>> 精度標準



參考圖1-1

項目	等級	◎ N 普通級
組合高誤差 (H)		±0.04
組合寬誤差 (W)		±0.04
成對高度相互誤差 (ΔH)		0.03
成對寬度相互誤差 (ΔW)		0.03
滑座 C 面對軌道 A 面之精度標準		△C
滑座 D 面對軌道 B 面之精度標準		△D

## X 非鏈帶型

尺寸 - mm					滑軌尺寸 - mm										額定負載 - kN		靜額定力矩 - N·m			重量	
I	L1	Oil-H	T1	N	W1	H1	F	d	D	h	WH	G	MR	L max	C	C0	Mx	My	Mz	滑塊 - kg	滑軌 - kg/m
2.0	13	Ø1.1	1.7	-	7	4.7	15	2.4	4.5	2.4	-	7.5	M3	600	1.51	1.29	3.09	3.69	5.02	0.009	0.25
2.5	19.5	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	900	2.01	2.26	10.35	8.34	8.34	0.014	0.39
2.5	29.2	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	900	2.75	3.24	14.71	16.67	16.67	0.020	0.39
3.2	20.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	M4	900	3.29	3.43	22.48	11.67	11.67	0.029	0.63
3.2	33.3	Ø2	3	-	12	7.25	25	3.5	6	4.3	-	10	M4	900	4.41	5.15	33.34	27.46	27.46	0.047	0.63
3.5	25.3	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	M4	900	5.44	5.59	39.23	25.50	25.50	0.047	1.05
3.5	43.1	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	M4	900	7.16	7.85	54.92	53.94	53.94	0.078	1.05
2.5	26.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	M4	900	3.19	3.24	30.60	14.71	14.71	0.030	0.98
2.5	38.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	M4	900	4.27	4.22	40.21	26.97	26.97	0.042	0.98
3.5	30.5	Ø2	3	-	24	8.7	40	4.5	8	4.5	-	15	M5	900	5.34	5.20	64.73	25.69	25.69	0.052	1.53
3.5	45.1	Ø2	3	-	24	8.7	40	4.5	8	4.5	-	15	M5	900	7.01	6.91	86.30	47.56	47.56	0.076	1.53
4.5	38.1	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	900	8.92	8.38	171.62	50.02	50.02	0.111	2.97
4.5	57.3	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	900	11.18	10.79	220.66	95.62	95.62	0.165	2.97

## C 鏈帶型

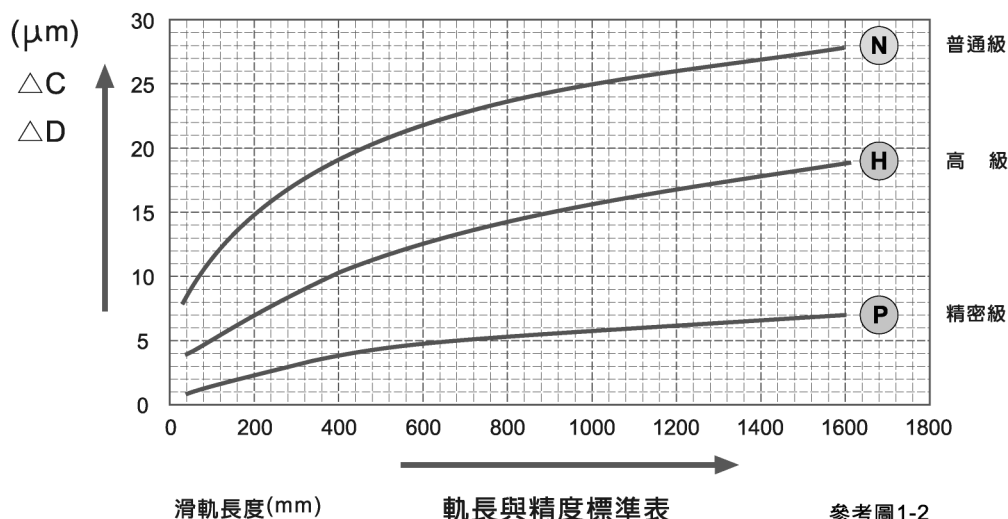
尺寸 - mm					滑軌尺寸 - mm										額定負載 - kN		靜額定力矩 - N·m			重量	
I	L1	Oil-H	T1	N	W1	H1	F	d	D	h	WH	G	MR	L max	C	C0	Mx	My	Mz	滑塊 - kg	滑軌 - kg/m
2.5	19.5	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	900	2.65	2.26	10.35	8.34	8.34	0.014	0.39
2.5	29.2	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	900	3.43	3.24	14.71	16.67	16.67	0.020	0.39
3.2	20.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	M4	900	3.92	3.43	22.48	11.67	11.67	0.029	0.63
3.2	33.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	M4	900	5.59	5.15	33.34	27.46	27.46	0.047	0.63
3.5	25.3	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	M4	900	6.52	5.59	39.23	25.50	25.50	0.047	1.05
3.5	43.1	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	M4	900	8.83	7.85	54.92	53.94	53.94	0.078	1.05
2.8	26.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	M4	900	3.19	3.24	30.60	14.71	14.71	0.030	0.98
2.8	38.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	M4	900	4.27	4.22	40.21	26.97	26.97	0.042	0.98
3.5	30.5	Ø2	3	-	24	8.7	40	4.5	8	4.5	-	15	M5	900	5.34	5.20	64.73	25.69	25.69	0.052	1.53
3.5	45.1	Ø2	3	-	24	8.7	40	4.5	8	4.5	-	15	M5	900	7.01	6.91	86.30	47.56	47.56	0.076	1.53
4.5	38.1	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	900	8.92	8.38	171.62	50.02	50.02	0.111	2.97
4.5	57.3	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	900	11.18	10.79	220.66	95.62	95.62	0.165	2.97

單位: mm

H	P
高級	精密級
±0.02	±0.01
±0.025	±0.015
0.015	0.007
0.02	0.01

參考圖 1-1, 1-2

參考圖 1-1, 1-2

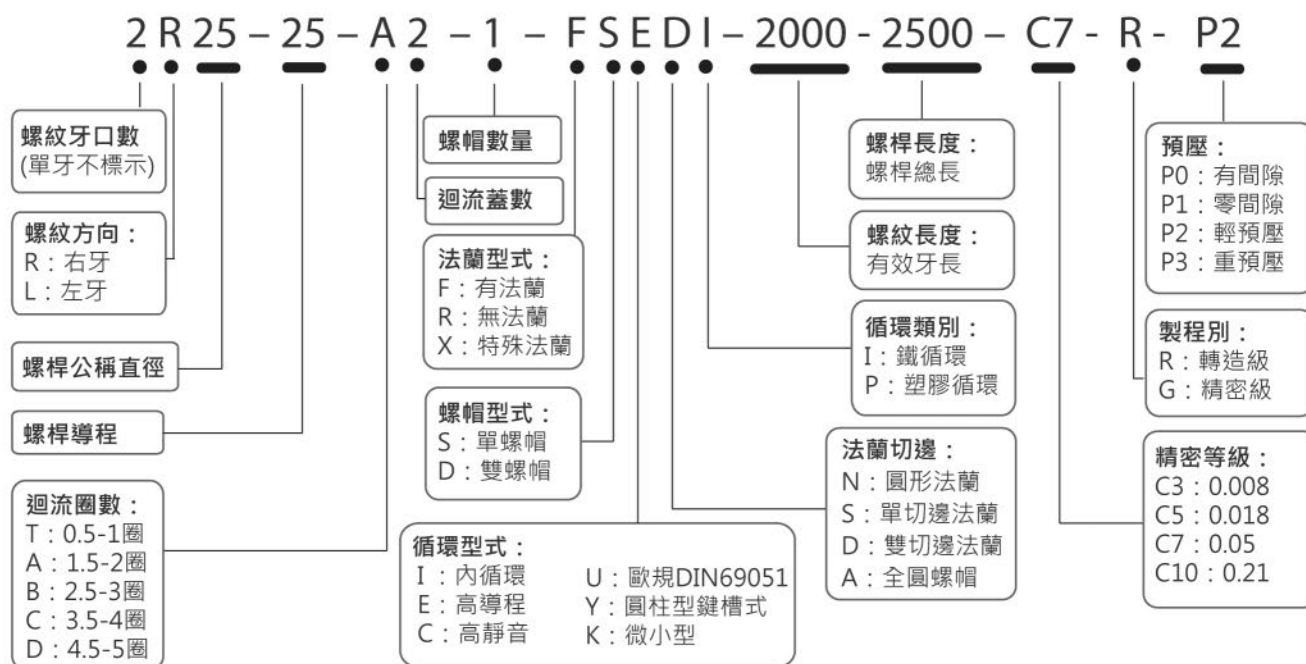




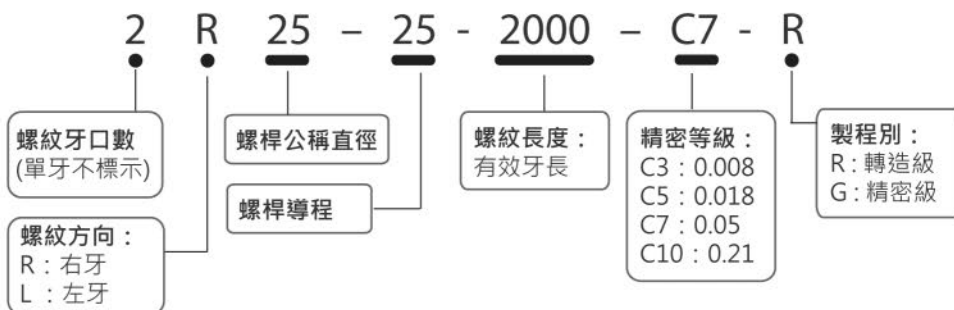
## 4. 滾珠螺桿

# 滾珠螺桿規格定義

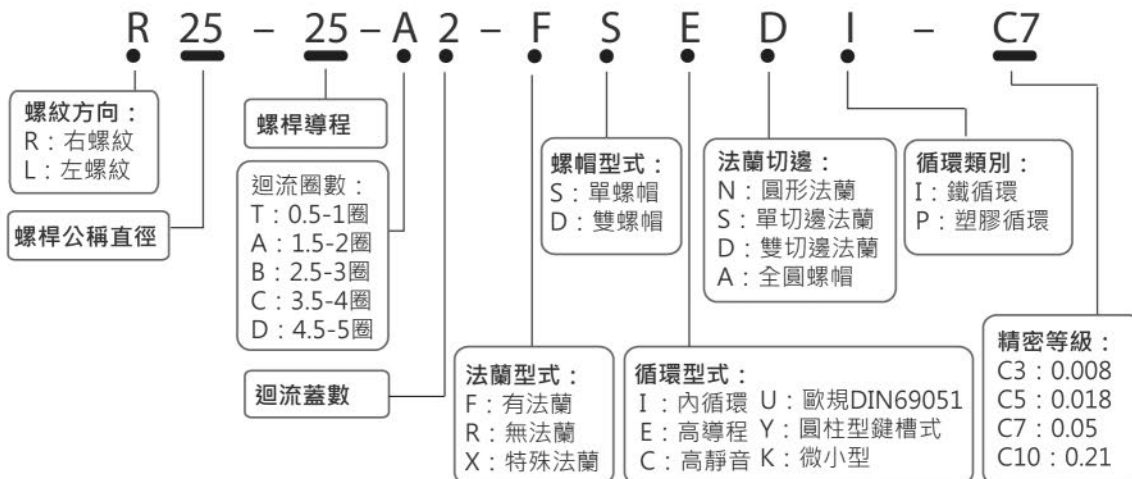
## 滾珠螺桿組規格編碼原則



## 螺桿規格編碼原則



## 螺帽規格編碼原則



**表2.2** 累積代表導程誤差(±E)與變動(e)之容許值 (JIS B 1192)

精度等級		C0		C1		C2		C3		C5		C7	C10	
有效螺紋長度	以上	以下	±E	e	±E	e	±E	e	±E	e	±E	e	e	e
		100	3	3	3.5	5	5	7	8	8	18	18		
	100	200	3.5	3	4.5	5	7	7	10	8	20	18		
	200	315	4	3.5	6	5	8	7	12	8	23	18		
	315	400	5	3.5	7	5	9	7	13	10	25	20		
	400	500	6	4	8	5	10	7	15	10	27	20		
	500	630	6	4	9	6	11	8	16	12	30	23		
	630	800	7	5	10	7	13	9	18	13	35	25		
	800	1000	8	6	11	8	15	10	21	15	40	27		
	1000	1250	9	6	13	9	18	11	24	16	46	30		
	1250	1600	11	7	15	10	21	13	29	18	54	35	±50 /300mm	±210 /300mm
	1600	2000			18	11	25	15	35	21	65	40		
	2000	2500			22	13	30	18	41	24	77	46		
	2500	3150			26	15	36	21	50	29	93	54		
	3150	4000			32	18	44	25	60	35	115	65		
	4000	5000					52	30	72	41	140	77		
	5000	6300					65	36	90	50	170	93		
	6300	8000							110	62	210	115		
	8000	10000									260	140		
	10000	12500									320	170		

**表2.3** 對螺紋部長度300mm之變動( $e_{300}$ )與搖擺( $e_{2\pi}$ )之容許值 (JIS B 1192)

單位：μm

精度等級	C0	C1	C2	C3	C5	C7	C10
$e_{300}$	3.5	5	7	8	18	50	210
$e_{2\pi}$		4	4	6	8		



表2.9 扭矩變動率的容許範圍

基準扭矩 kgf · cm		有效螺紋長度 mm										
		4000以下								4000以上10000以下		
		細長比 1 : 40以下				細長比 1 : 40~1 : 60				—		
		等級				等級				等級		
超過	以下	C0	C1	C2、C3	C5	C0	C1	C2、C3	C5	C1	C2、C3	C5
2	4	±30 %	±35 %	±40 %	±50 %	±40 %	±40 %	±50 %	±60 %	—	—	—
4	6	±25 %	±30 %	±35 %	±40 %	±35 %	±35 %	±40 %	±45 %	—	—	—
6	10	±20 %	±25 %	±30 %	±35 %	±30 %	±30 %	±35 %	±40 %	—	±40 %	±45 %
10	25	±15 %	±20 %	±25 %	±30 %	±25 %	±25 %	±30 %	±35 %	—	±35 %	±40 %
25	63	±10 %	±15 %	±20 %	±25 %	±20 %	±20 %	±25 %	±30 %	—	±30 %	±35 %
63	100	—	±15 %	±15 %	±20 %	—	—	±20 %	±25 %	—	±25 %	±30 %

備註：1. 細長比就是以螺桿軸的螺紋部長度 (mm) 除螺桿軸外徑所得的值謂之。

2. 基準扭矩 2 kgf · cm 以下，依規格另行管理。

### 基準扭矩 $T_p$ 的算出

預壓滾珠螺桿的基準扭矩  $T_p$ (kgf · cm) 的計算式如下所示。

$$T_p = 0.05 (\tan \beta)^{0.5} \cdot \frac{F_{ao} \cdot l}{2\pi}$$

在此， $F_{ao}$ ：預壓負荷 (kgf)

$\beta$ ：導程角

$l$ ：導程 (cm)

### 測定條件

預壓動扭矩 ( $T_p$ ) 是以下述的測定條件加圖 2.3 所示之方法，轉動螺桿軸後，測定為使螺帽不跟著一起轉動所需之力 ( $F$ ) 再將 ( $F$ ) 的測定值乘力臂長 ( $L$ )，所得之積即為  $T_p$ 。

$$T_p = F \cdot L$$

測定條件 (1) 測定時是以不附刮刷器的狀態下施行。

(2) 測定回轉數為 100 rpm。

(3) 使用的潤滑油黏度依據 JSK2001 (工業用潤滑油黏度分類) 的規定，以 ISO VG68 為基準。

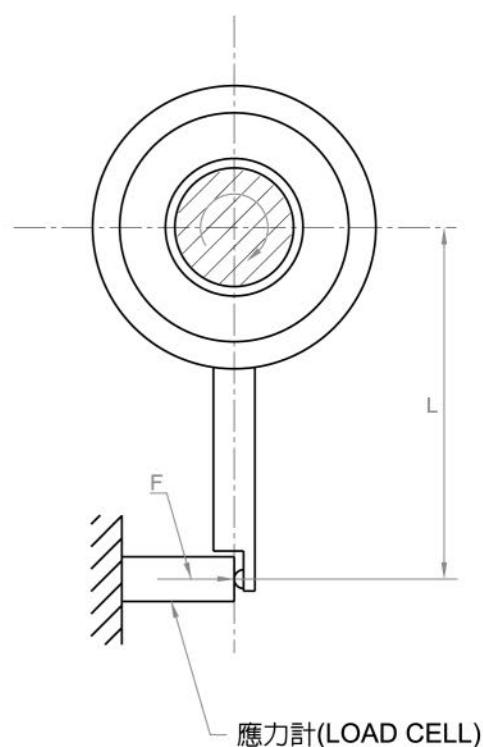
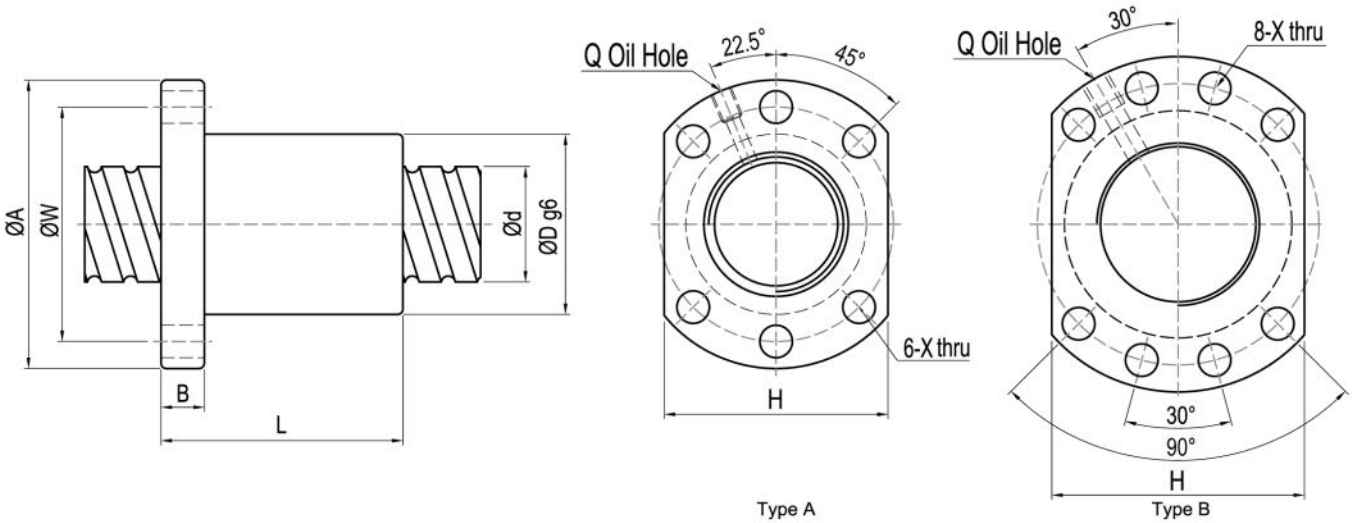


圖 2.4 預壓動扭矩測定法

# Type: FSU(DIN69051)

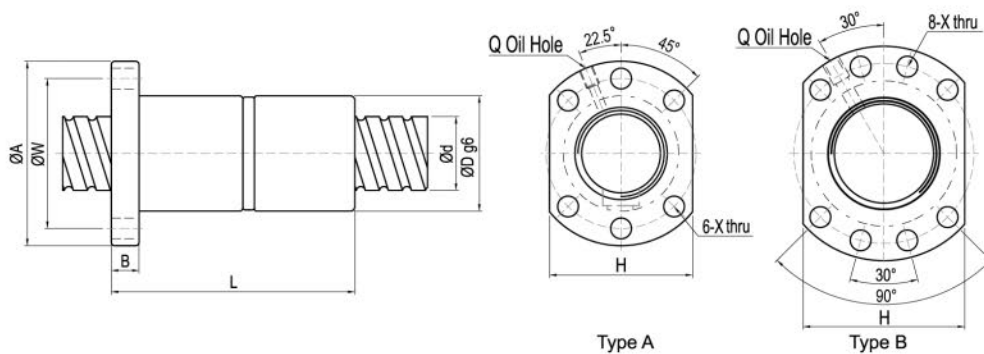


單位：mm

型號	規格														
	d	l	Da	D	A	B	L	W	X	Type	H	Q	n	Ca(Kgf)	Coa(kgf)
1604-4	16	4	2.381	28	48	10	45	38	5.5	A	40	M6	T4	944	1254
☑ 1605-3	16	5	3.175	28	48	10	42	38	5.5	A	40	M6	T3	1049	1144
☑ 1605-4	16	5	3.175	28	48	10	50	38	5.5	A	40	M6	T4	1344	1525
1610-3	16	10	3.175	28	48	12	65	38	5.5	A	40	M6	T3	1084	1232
2005-3	20	5	3.175	36	58	10	47	47	6.6	A	44	M6	T3	1181	1496
2005-4	20	5	3.175	36	58	10	53	47	6.6	A	44	M6	T4	1512	1995
2010-3	20	10	3.969	36	58	10	68	47	6.6	A	44	M6	T3	1621	1925
2504-4	25	4	2.381	40	62	11	46	51	6.6	A	48	M6	T4	1178	2046
2505-3	25	5	3.175	40	62	10	47	51	6.6	A	48	M6	T3	1330	1936
☑ 2505-4	25	5	3.175	40	62	10	53	51	6.6	A	48	M6	T4	1704	2581
2510-3	25	10	4.762	40	62	12	75	51	6.6	A	48	M6	T3	2250	2772
2510-4	25	10	4.762	40	62	12	85	51	6.6	A	48	M6	T4	2881	3695
☑ 3205-4	32	5	3.175	50	80	12	53	65	9	A	62	M6	T4	1924	3403
3206-4	32	6	3.969	50	80	12	58	65	9	A	62	M6	T4	2598	4217
3210-3	32	10	6.35	50	80	16	77.5	65	9	A	62	M6	T3	3775	5877
3210-4	32	10	6.35	50	80	16	90	65	9	A	62	M6	T4	4834	7835
☑ 4005-4	40	5	3.175	63	93	16	56	78	9	B	70	M8	T4	2142	4342
4010-4	40	10	6.35	63	93	18	93	78	9	B	70	M8	T4	5399	10074
5010-4	50	10	6.35	75	110	18	93	93	11	B	85	M8	T4	5933	12313
6310-4	63	10	6.35	90	125	18	98	108	11	B	95	M8	T4	6700	16230
6320-3	63	20	9.525	95	135	20	138	115	13.5	B	100	M8	T3	8957	17945
8010-4	80	10	6.35	105	145	20	98	125	13.5	B	110	M8	T4	7547	21268
8020-3	80	20	9.525	125	165	25	143	145	13.5	B	130	M8	T3	10168	23611

備註：有標註☑記號可裝作左螺紋

## Type: FDU(DIN69051)

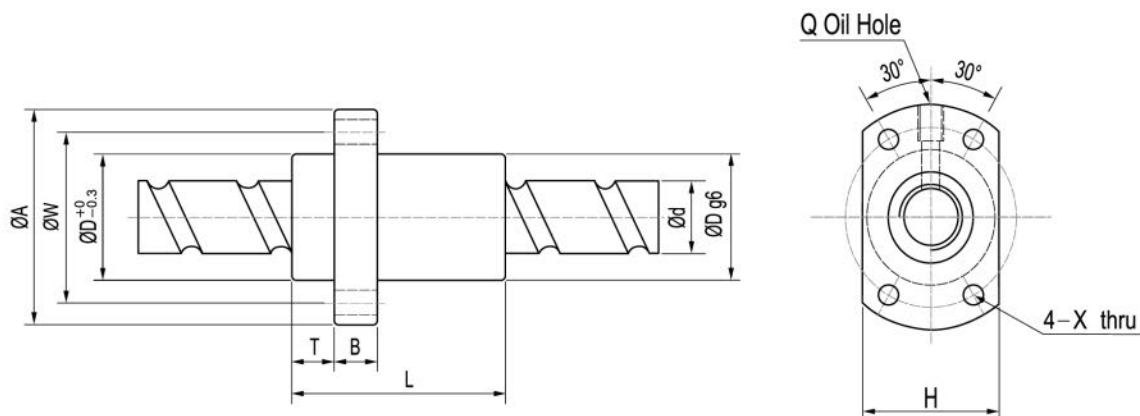


單位：mm

型號	規格														
	d	l	Da	D	A	B	L	W	X	Type	H	Q	n	Ca(Kgf)	Coa(kgf)
✓ 1605-3	16	5	3.175	28	48	10	80	38	5.5	A	40	M6	T3	1049	1144
✓ 2005-4	20	5	3.175	36	58	12	92	47	6.6	A	44	M6	T4	1512	1995
✓ 2505-4	25	5	3.175	40	62	12	92	51	6.6	A	48	M6	T4	1704	2581
2510-4	25	10	4.762	40	62	12	153	51	6.6	A	48	M6	T4	2881	3695
✓ 3205-4	32	5	3.175	50	80	12	92	65	9	A	62	M6	T4	1924	3403
3210-4	32	10	6.35	50	80	16	160	65	9	A	62	M6	T4	4834	7835
4005-4	40	5	3.175	63	93	15	96	78	9	B	70	M8	T4	2142	4342
4010-4	40	10	6.35	63	93	18	162	78	9	B	70	M8	T4	5399	10074
5010-4	50	10	6.35	75	110	16	162	93	11	B	85	M8	T4	5933	12313
6310-4	63	10	6.35	90	125	18	182	108	11	B	95	M8	T4	6700	16230
6320-3	63	20	9.525	95	135	20	253	115	13.5	B	100	M8	T3	8957	17945
8010-4	80	10	6.35	105	145	20	182	125	13.5	B	110	M8	T4	7547	21268
8020-3	80	20	9.525	125	165	25	253	145	13.5	B	130	M8	T3	10168	23611

備註：有標註 ✓ 記號可裝作左螺紋

## Type: FSE

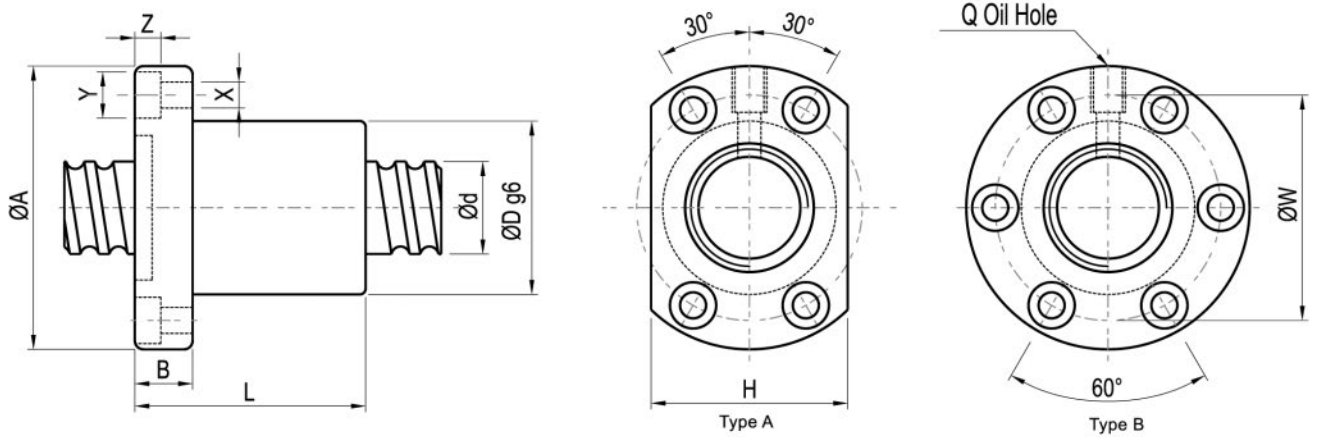


單位：mm

型號	規格														
	d	l	Da	D	A	B	T	L	W	X	H	Q	n	Ca(Kgf)	Coa(kgf)
1616-2	16	16	3.175	32	53	10	10.5	48	42	4.5	38	M6	A2	1512	1995
✓ 2020-2	20	20	3.175	39	62	10	10.8	55	50	5.5	46	M6	A2	1659	2464
2520-2	25	20	3.5	47	74	12	11	65	60	6.6	49	M6	A2	2106	3422
2525-2	25	25	3.969	47	74	12	11.2	67	60	6.6	56	M6	A2	2481	3851
3232-2	32	32	4.762	58	92	15	14	82	74	9	68	M6	A2	3585	6071
4040-2	40	40	6.35	73	114	17	17	100	93	11	84	M6	A2	5778	11753
5050-2	50	50	7.938	90	135	20	21.5	125	112	14	92	M6	A2	8819	19241

備註：有標註 ✓ 記號可裝作左螺紋

## Type: FSI

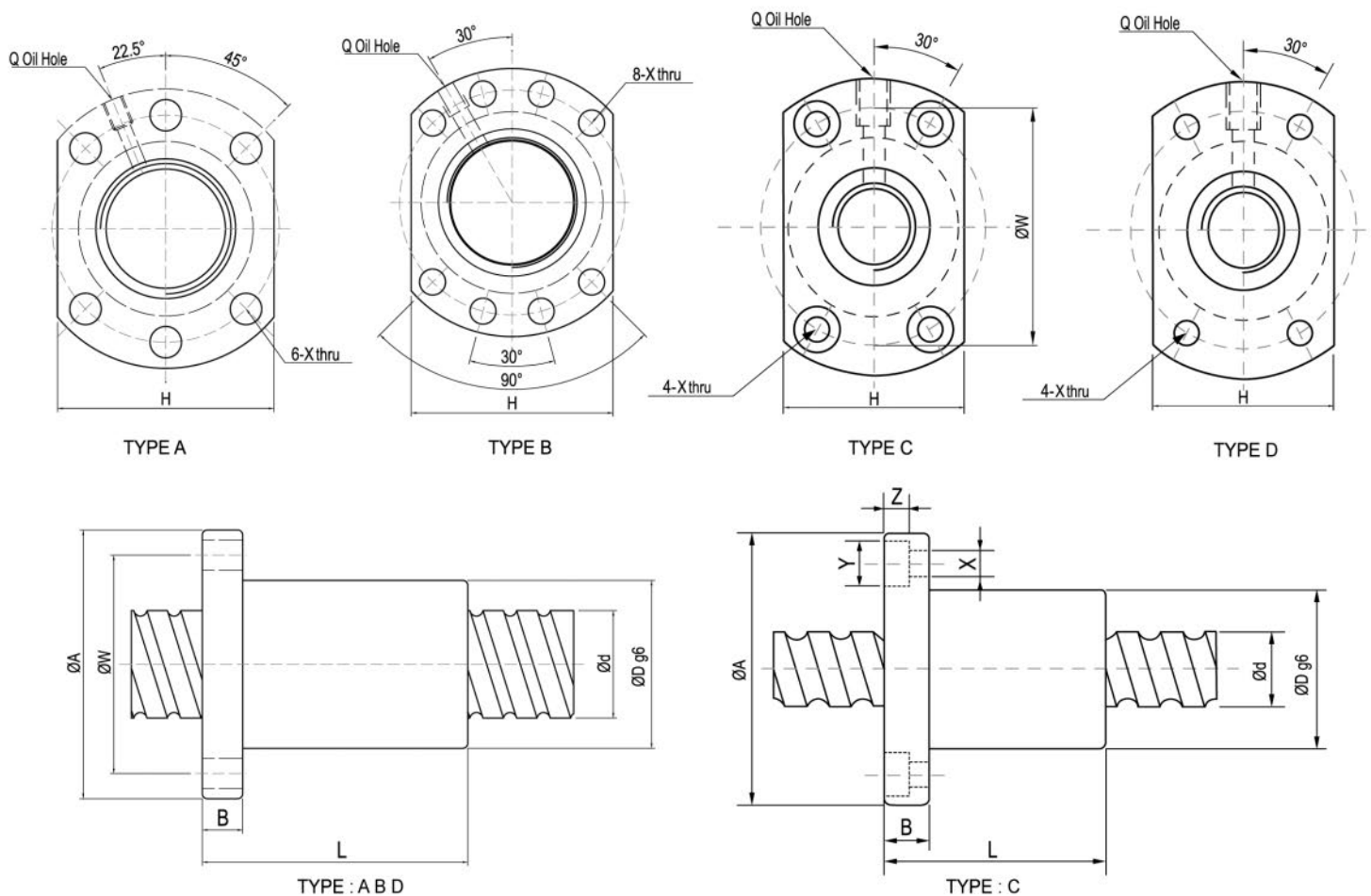


單位：mm

型號	規格																
	d	l	Da	D	A	B	L	W	X	Y	Z	Type	H	Q	n	Ca(Kgf)	Coa(kgf)
1404-4	14	4	2.381	26	46	10	47	36	4.5	8	4.5	A	34	M6	T4	875	1056
1405-3	14	5	3.175	26	46	10	45	36	4.5	8	4.5	A	34	M6	T3	1013	1056
1604-4	16	4	2.381	30	49	10	45	39	4.5	8	4.5	A	34	M6	T4	944	1254
✓ 1605-3	16	5	3.175	30	49	10	42	39	4.5	8	4.5	A	34	M6	T3	1049	1144
✓ 1605-4	16	5	3.175	30	49	10	50	39	4.5	8	4.5	A	34	M6	T4	1344	1525
1610-3	16	10	3.175	34	58	10	65	45	5.5	9.5	5.5	A	36	M6	T3	1084	1232
✓ 2005-4	20	5	3.175	34	57	12	53	45	5.5	9.5	5.5	A	40	M6	T4	1512	1995
2504-4	25	4	2.381	40	63	11	46	51	5.5	9.5	5.5	A	46	M6	T4	1178	2046
✓ 2505-4	25	5	3.175	40	63	12	53	51	5.5	9.5	5.5	A	46	M8	T4	1704	2581
2510-4	25	10	4.762	46	72	12	85	58	6.5	11	6.5	A	52	M6	T4	2881	3695
✓ 3205-4	32	5	3.175	46	72	12	53	58	6.5	11	6.5	A	52	M8	T4	1924	3403
3206-4	32	6	3.969	62	89	12	63	75	6.5	11	6.5	B	-	M8	T4	2598	4217
3210-4	32	10	6.35	54	88	16	90	70	9	14	8.5	A	62	M8	T4	4834	7835
✓ 4005-4	40	5	3.175	56	90	16	56	72	9	14	8.5	A	64	M8	T4	2142	4342
4010-4	40	10	6.35	62	104	18	93	82	11	17.5	11	A	70	M8	T4	5399	10074
5010-4	50	10	6.35	72	114	18	93	92	11	17.5	11	A	82	M8	T4	5933	12313
6310-4	63	10	6.35	85	131	22	100	107	14	20	13	B	-	M8	T4	6700	16230
6320-3	63	20	9.525	95	153	23	130	123	18	26	17.5	B	-	M8	T3	8957	17945
8010-4	80	10	6.35	105	150	22	92	127	14	20	13	B	-	M8	T4	7547	21268
8020-3	80	20	9.525	115	173	23	130	143	18	26	17.5	B	-	M8	T3	10168	23611

備註：有標註 ✓ 記號可裝作左螺紋

# Type: FSC

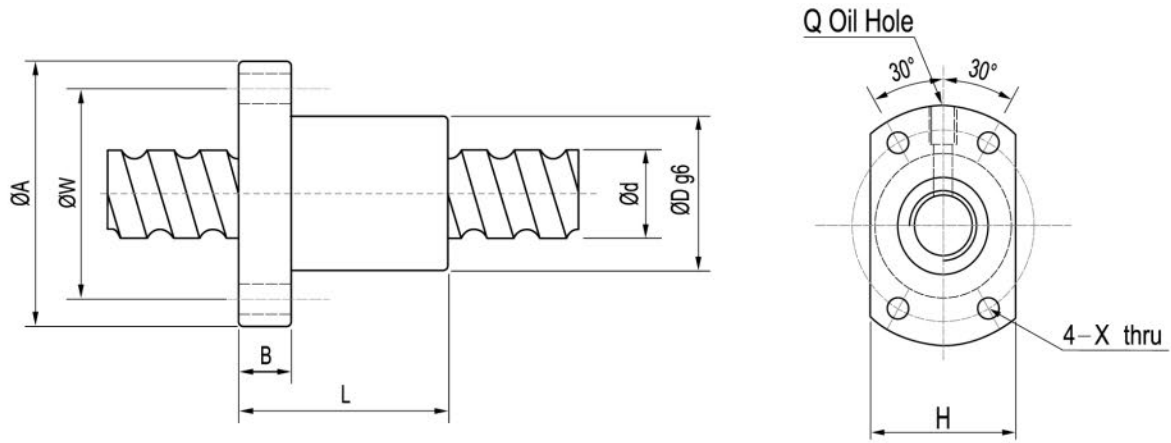


單位：mm

型號	規格																
	d	l	Da	D	A	B	L	W	X	Y	Z	Type	H	Q	n	Ca(Kgf)	Coa(kgf)
1210-2	12	10	2	30	50	10	40	40	4.5	8	4.5	C	32	M6	T2	390	466
1520-2	15	20	3.175	34	55	12	57	45	6	-	-	D	34	M6	T2	833	997
1610-3	16	10	3.175	28	48	12	43	38	5.5	-	-	A	40	M6	T3	1180	1496
1616-3	16	16	3.175	28	48	12	61	38	5.5	-	-	A	40	M6	T3	1180	1496
2010-2	20	10	3.969	46	74	13	54	59	6.6	11	5.5	C	46	M6	T2	1246	1559
2020-4	20	20	3.175	36	58	10	55	47	6.6	-	-	A	44	M6	T4	1659	2464
▲ 2510-4	25	10	3.5	40	62	12	64	51	6.6	-	-	A	48	M6	T4	2067	3280
2525-4	25	25	3.969	47	74	12	67	60	6.6	-	-	A	56	M6	T4	2481	3851
3220-3	32	20	3.969	50	80	13	78	65	9	-	-	A	62	M6	T3	2141	3576
3232-4	32	32	4.762	56	86	16	82	71	9	-	-	A	65	M6	T4	3585	6071
4020-3	40	20	5.556	63	93	15	83	78	9	-	-	B	70	M8	T3	3782	6468
4040-4	40	40	6.35	65	95	18	100	80	9	-	-	B	72	M8	T4	5778	11753
5020-5	50	20	6.35	75	110	18	121	93	11	-	-	B	85	M8	T5	7737	18189

備註：有標註 ▲ 記號搭配3.5mm珠徑之螺桿

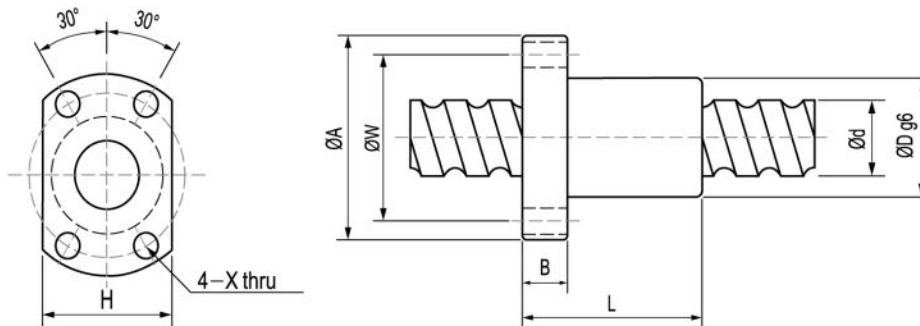
## Type: FSB



單位：mm

型號	規格													Ca(Kgf)	Coa(kgf)
	d	l	Da	D	A	B	L	W	X	H	Q	n			
1404-3	14	4	2.381	31	50	10	40	40	4.5	37	M6	T3	684	792	
1405-3	14	5	3.175	32	50	10	45	40	4.5	38	M6	T3	1013	1056	
1605-3	16	5	3.175	34	54	10	42	44	4.5	40	M6	T3	1049	1144	
2005-3	20	5	3.175	40	60	10	47	50	4.5	46	M6	T3	1181	1496	
2505-3	25	5	3.175	43	67	10	47	55	5.5	50	M6	T3	1330	1936	
2510-3	25	10	4.762	60	96	15	75	78	9	72	M6	T3	2250	2772	
2510-4	25	10	4.762	60	96	15	97	78	9	72	M6	T4	2881	3695	
3210-3	32	10	6.35	67	103	15	78	85	9	78	M6	T3	3775	5877	
3210-4	32	10	6.35	67	103	15	97	85	9	78	M6	T4	4834	7835	
4010-4	40	10	6.35	76	116	17	100	96	11	88	M6	T4	5399	10074	

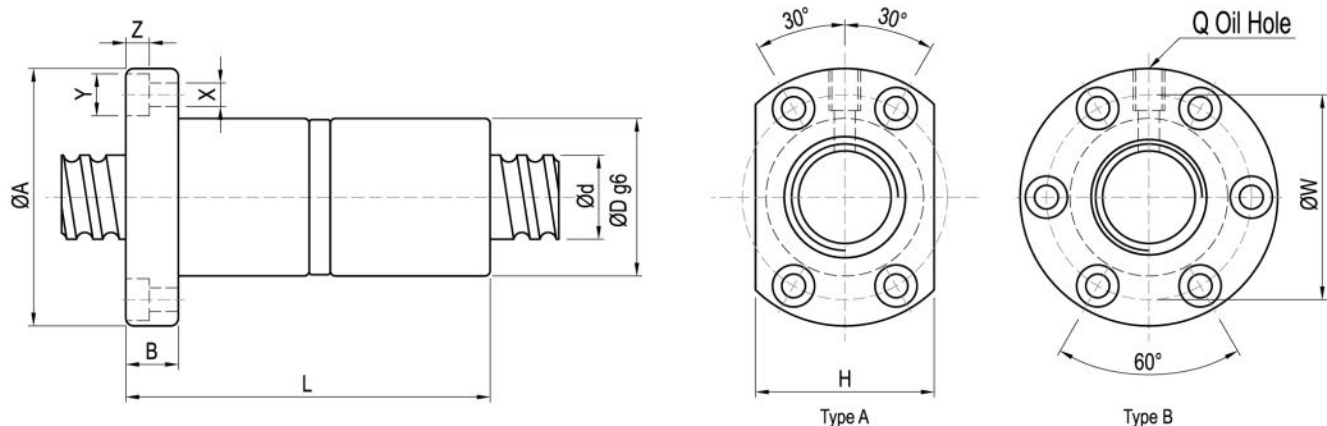
## Type: FSK



單位：mm

型號	規格													Ca(Kgf)	Coa(kgf)
	d	l	Da	D	A	B	L	W	X	H	n				
0601-3	6	1	0.8	12	24	3.5	18	18	3.4	16	T3	111	123		
0801-3	8	1	0.8	14	27	4	20	21	3.4	18	T3	126	162		
0802-3	8	2	1.2	16	29	4	26	23	3.4	20	T3	215	239		
0825-3	8	2.5	1.2	16	29	4	26	23	3.4	20	T3	215	239		
1002-3	10	2	1.2	18	35	5	28	27	4.5	22	T3	240	302		
1004-3	10	4	2	26	46	10	35	36	4.5	28	T3	472	489		
1202-3	12	2	1.2	20	37	5	28	29	4.5	24	T3	265	377		
1204-3	12	4	2.381	28	48	6	35	39	5.5	30	T3	645	693		
1205-3	12	5	2	28	48	6	35	39	5.5	30	T3	514	594		
1402-3	14	2	1.2	21	40	6	28	31	5.5	26	T3	283	440		
1602-3	16	2	1.2	25	43	10	32	35	5.5	29	T3	300	503		

## Type: FDI

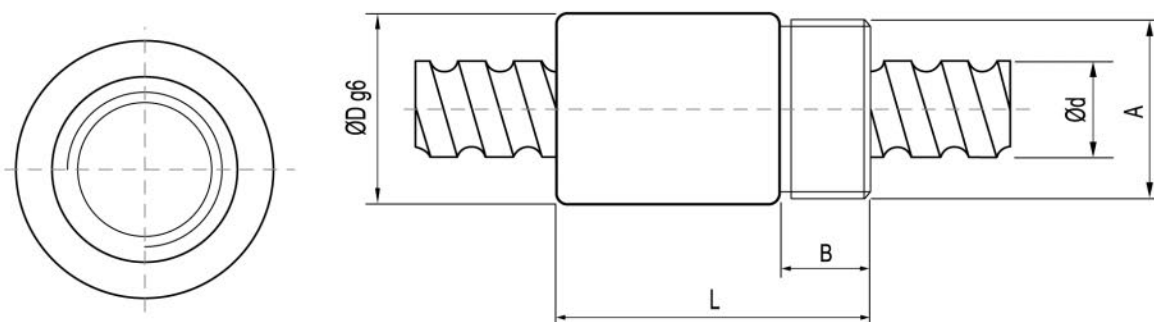


單位：mm

型號	規格																
	d	l	Da	D	A	B	L	W	X	Y	Z	Type	H	Q	n	Ca(Kgf)	Coa(kgf)
☑ 1605-3	16	5	3.175	30	49	10	80	39	4.5	8	4.5	A	34	M6	T3	1049	1144
☑ 2005-4	20	5	3.175	34	57	12	92	45	5.5	9.5	5.5	A	40	M6	T4	1512	1995
☑ 2505-4	25	5	3.175	40	63	12	92	51	5.5	9.5	5.5	A	46	M8	T4	1704	2581
2510-4	25	10	4.762	46	72	12	156	58	6.5	11	6.5	A	52	M6	T4	2881	3695
☑ 3205-4	32	5	3.175	46	72	12	92	58	6.5	11	6.5	A	52	M8	T4	1924	3403
3210-4	32	10	6.35	54	88	16	160	70	9	14	8.5	A	62	M8	T4	4834	7835
☑ 4005-4	40	5	3.175	56	90	16	96	72	9	14	8.5	A	64	M8	T4	2142	4342
4010-4	40	10	6.35	62	104	18	162	82	11	17.5	11	A	70	M8	T4	5399	10074
5010-4	50	10	6.35	72	114	18	162	92	11	17.5	11	A	82	M8	T4	5933	12313
6310-4	63	10	6.35	85	131	22	182	107	14	20	13	B	-	M8	T4	6700	16230
6320-3	63	20	9.525	95	153	23	253	123	18	26	17.5	B	-	M8	T3	8957	17945
8010-4	80	10	6.35	105	150	22	182	127	14	20	13	B	-	M8	T4	7547	21268
8020-3	80	20	9.525	115	173	23	253	143	18	26	17.5	B	-	M8	T3	10168	23611

備註：有標註☑記號可裝作左螺紋

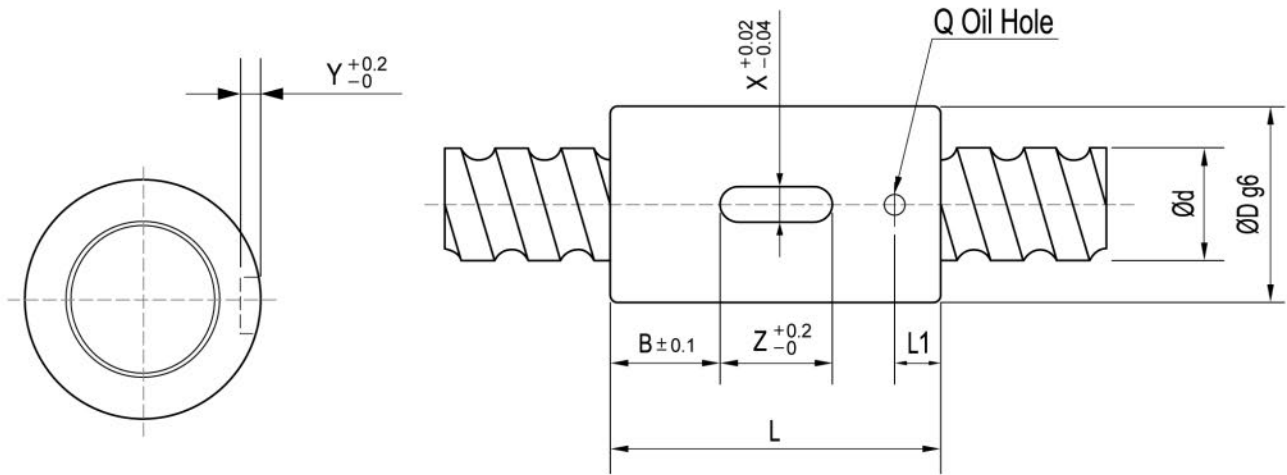
## Type: RSH



單位：mm

型號	規格									
	d	l	Da	D	A	B	L	n	Ca(Kgf)	Coa(kgf)
12H2-1.5	12	12.7	2.381	29.5	M25x1.5P	12	50	A1	397	445
16H5-3.5	16	5.08	3.175	25.4	15/16"x16un	12.7	43.43	C1	1348	1745

## Type: RSY



單位：mm

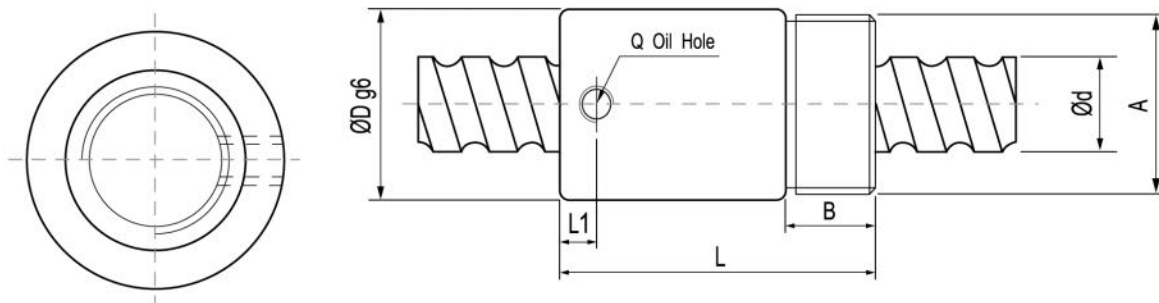
型號	規格													(Ca Kgf)	(Coa (Kgf))
	d	l	Da	D	L	B	X	Y	Z	Q	L1	n			
1202-3	12	2	1.2	24	30	9	3	1.5	12	Ø3	4	T3	265	377	
1204-3	12	4	2.381	24	35	11.5	3	1.5	12	Ø3	5	T3	645	693	
1205-3	12	5	2	24	40	14	3	1.5	12	Ø3	5	T3	514	594	
1210-2	12	10	2	24	40	14	3	1.5	12	Ø3	5	T2	390	466	
1602-3	16	2	1.2	28	40	10	5	2	20	Ø3	5	T3	300	503	
1604-4	16	4	2.381	28	45	12.5	5	2	20	Ø3	7	T4	944	1254	
1605-3	16	5	3.175	28	45	12.5	5	2	20	Ø3	7	T3	1049	1144	
☑ 1605-4	16	5	3.175	28	50	15	5	2	20	Ø3	7	T4	1344	1525	
1610-3	16	10	3.175	28	45	12.5	5	2	20	Ø3	7	T3	1181	1496	
1616-2	16	16	3.175	28	45	12.5	5	2	20	Ø3	7	T2	833	997	
2005-3	20	5	3.175	36	47	13.5	5	2	20	Ø3	7	T3	1181	1496	
☑ 2005-4	20	5	3.175	36	53	16.5	5	2	20	Ø3	7	T4	1512	1995	
2010-3	20	10	3.969	36	68	24	5	2	20	Ø3	7	T3	1621	1925	
2020-4	20	20	3.175	36	55	17.5	5	2	20	Ø3	7	T4	1659	2464	
☑ 2505-4	25	5	3.175	40	53	16.5	5	2	20	Ø3	7	T4	1704	2581	
▲ 2510-3	25	10	3.5	40	54	17	5	2	20	Ø3	7	T3	1614	2460	
☑ 3205-4	32	5	3.175	50	53	11.5	6	2.5	30	Ø3	7	T4	1924	3403	
3210-3	32	10	6.35	50	70	20	6	2.5	30	Ø3	7	T3	3775	5877	
3220-3	32	20	3.969	50	78	24	6	2.5	30	Ø3	7	T3	2141	3576	
☑ 4005-4	40	5	3.175	63	56	13	6	2.5	30	Ø3	7	T4	2142	4342	
4010-3	40	10	6.35	63	80	25	6	2.5	30	Ø3	7	T3	4216	7556	
4020-3	40	20	5.556	63	83	26.5	6	2.5	30	Ø3	7	T3	3782	6468	
5010-3	50	10	6.35	75	82	23	6	2.5	36	Ø3	7	T3	4633	9235	
6310-4	63	10	6.35	85	90	29	6	3.5	32	Ø5	14	T4	6700	16230	

備註：有標註 ☑ 記號可裝作左螺紋

備註：有標註 ▲ 記號搭配3.5mm珠徑



## Type: RSU

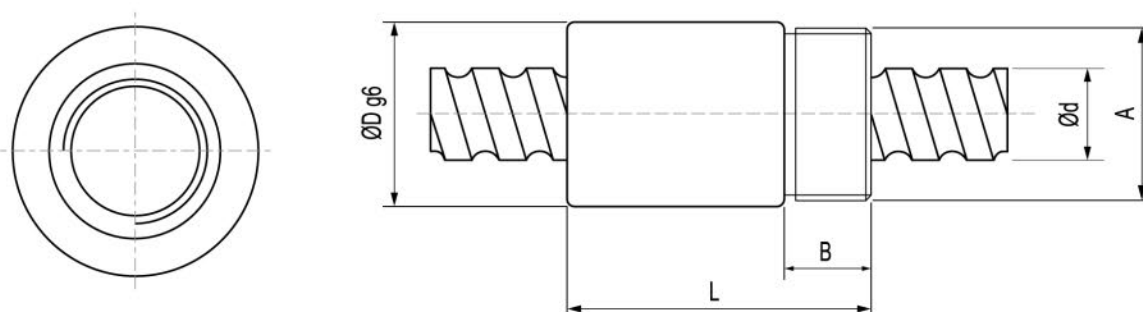


單位 : mm

型號	規格											
	d	l	Da	D	A	B	L	Q	L1	n	Ca(Kgf)	Coa(kgf)
● 1604-3	16	4	2.381	29	M22X1.5P	8	32	-	-	T3	737	940
1605-4	16	5	3.175	32	M30X1.5P	16	56	M6	6.5	T4	1344	1525
2005-4	20	5	3.175	38	M35X1.5P	16.5	59.5	M6	7	T4	1512	1995
2505-4	25	5	3.175	42	M40X1.5P	17	60	M6	7	T4	1704	2581
2510-4	25	10	4.762	42	M40X1.5P	17	90	M6	10	T4	2881	3695
3205-4	32	5	3.175	52	M48X1.5P	19	60	M6	7	T4	1924	3403
3210-4	32	10	6.35	52	M48X1.5P	19	93	M6	12	T4	4834	7835
4005-4	40	5	3.175	58	M56X1.5P	19	59	M8	6	T4	2142	4342
4010-4	40	10	6.35	65	M60X1.5P	27	102	M8	12	T4	5399	10074
5010-4	50	10	6.35	78	M72X1.5P	29	104	M8	12	T4	5933	12313

備註 : ● 無刮刷器

## Type: RSK



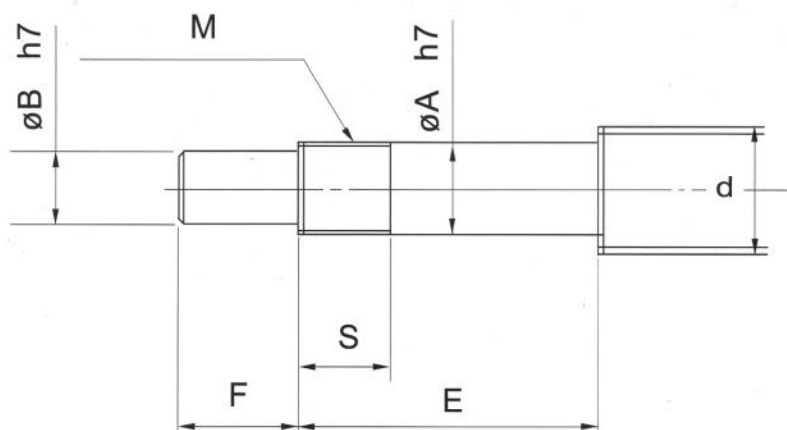
單位 : mm

型號	規格									
	d	l	Da	D	A	B	L	n	Ca(Kgf)	Coa(kgf)
0825-3	8	2.5	1.2	17.5	M15X1P	8	26	T3	215	239
1003-3	10	3	1.8	21	M18X1P	9	29	T3	403	424
1204-3	12	4	2.381	25.5	M20X1P	10	34	T3	645	693
1205-3	12	5	2	25.5	M20X1P	10	39	T3	514	594
1605-3	16	5	3.175	32.5	M26X1.5P	12	42	T3	1049	1144



## 5. 螺桿支撐座 / 螺帽支撐座

## 建議軸端尺寸 ( 固定側 ) - BK.FK.EK



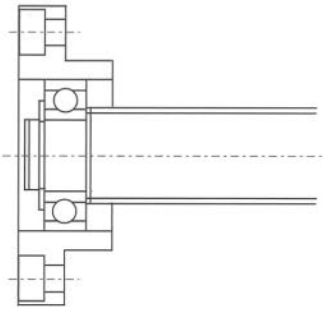
單位 : mm

型 號	滾珠螺桿 軸外徑 d	軸 承 部 軸外徑 A				Metric screw thread	
BK (Type BK)	d	D	B	E	F	M	S
BK 10	12/14/15	10	8	36	15	M10X1	16
BK 12	14/15/16	12	10	36	15	M12X1	14
BK 15	18/20	15	12	40	20	M15X1	12
BK 17	20/25	17	15	53	23	M17X1	17
BK 20	25/28	20	17	53	25	M20X1	15
BK 25	32/36	25	20	65	30	M25X1.5	18
BK 30	36/40	30	25	72	38	M30X1.5	25
BK 35	45	35	30	81	45	M35X1.5	28
BK 40	50	40	35	93	50	M40X1.5	35

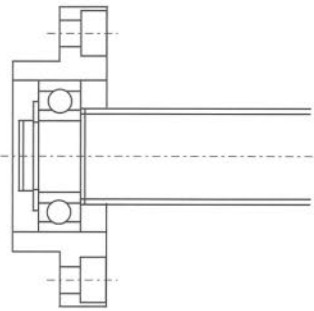
單位 : mm

型 號		滾珠螺桿 軸外徑 d	軸 承 部 軸外徑 A				Metric screw thread	
Type FK	Type EK	d	D	B	E	F	M	S
FK 06	EK 06	8	6	4	28	8	M6X0.75	8
FK 08	EK 08	10/12	8	6	32	9	M8X1	10
FK 10	EK 10	12/14/15	10	8	36	15	M10X1	11
FK 12	EK 12	14/15/16	12	10	36	15	M12X1	11
FK 15	EK 15	18/20	15	12	47	20	M15X1	13
FK 17	-	20/25	17	15	58	23	M17X1	15
FK 20	EK 20	25/28/30	20	17	62	25	M20X1	17
FK 25	-	30/32/36	25	20	76	30	M25X1.5	20
FK 30	-	36/40	30	25	72	38	M30X1.5	25

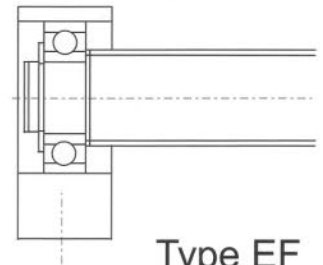
## 建議軸端尺寸 (支持側) - FF.EF.BF



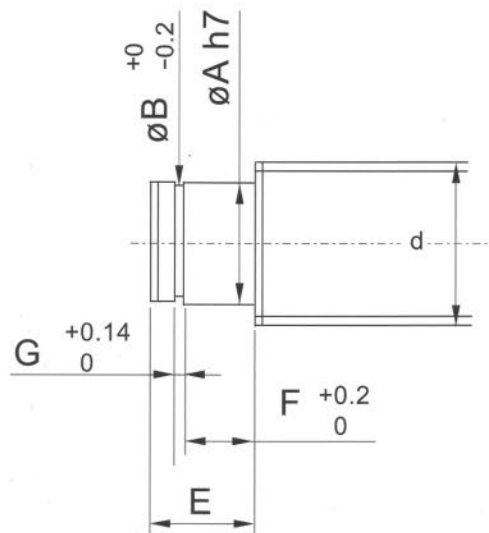
Type FF



Type FF



Type EF  
Type BF

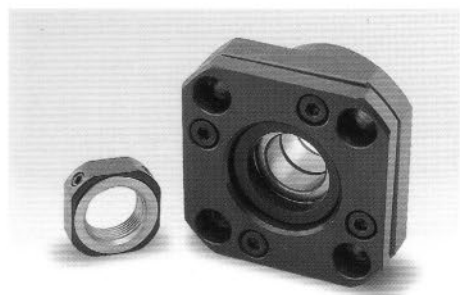


單位 : mm

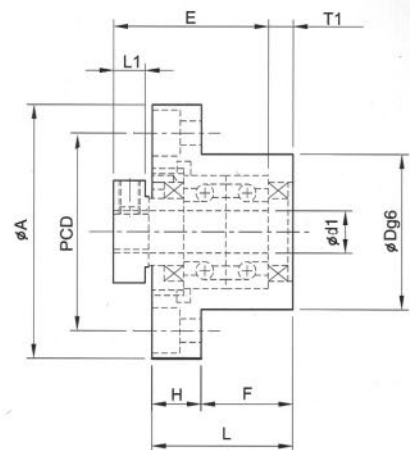
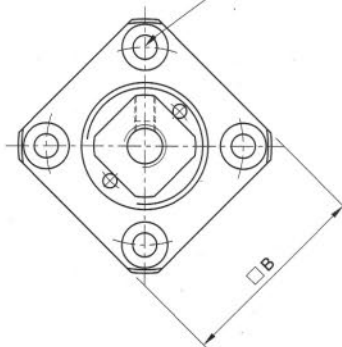
型號	螺桿軸外徑	軸承部軸外徑	軸承部軸長	扣環溝槽		
Type: FF/EF/BF	d	A	E	B	F	G
FF/EF/BF10	12/14/15	8	10	7.6	7	0.9
FF/EF/BF12	14/15/16	10	11	9.6	8	1.15
FF/EF/BF15	18/20	15	13	14.3	9	1.15
FF/BF17	20/25	17	16	16.2	12	1.15
★FF/EF/BF20	25/28/30	20	19 (16)	19	14(12)	1.35
FF/BF 25	30/32/36	25	20	23.9	15	1.35
FF/BF 30	36/40	30	21	28.6	16	1.75
BF 35	40/45	35	22	33	17	1.75
BF 40	50	40	23	38	17.8	1.95

★(註) 尺寸表中的 ( ) 尺寸表示 BF20 的尺寸。它與 FF20 及 EF20 的尺寸不同，因此訂貨時請務必告知所使用的支撐單元型號。

## FK 固定側



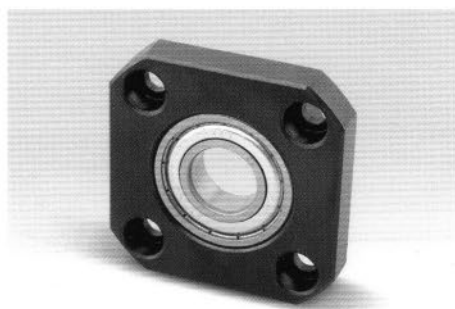
4-X drill through  $\phi Y$  counter bore depth Z



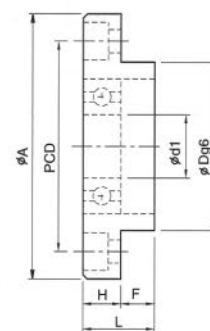
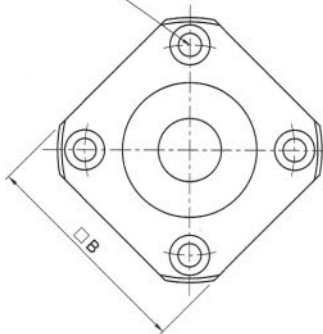
單位 : mm

型號	d1	L	H	F	E	Dg6	A	PCD	B	L1	T1	L2	T2	X	Y	Z	M	T
FK 5	5	16.5	6	10.5	18.5	20	34	26	26	5.5	3.5	7	5	3.4	6.5	4	M2.6	11
FK 6	6	20	7	13	22	22	36	28	28	5.5	3.5	8.5	6.5	3.4	6.5	4	M3	12
FK 8	8	23	9	14	26	28	43	35	35	7	4	10	7	3.4	6.5	4	M3	14
FK 10	10	27	10	17	29.5	34	52	42	42	7.5	5	8.5	6	4.5	8	4	M3	16
FK 12	12	27	10	17	29.5	36	54	44	44	7.5	5	8.5	6	4.5	8	4	M3	19
FK 15	15	32	15	17	36	40	63	50	52	10	6	12	8	5.5	9.5	6	M3	22
FK 17	17	45	22	23	47	50	77	62	61	11	9	14	12	6.6	11	10	M4	24
FK 20	20	52	22	30	50	57	85	70	68	8	10	12	14	6.6	11	10	M4	30
FK 25	25	57	27	30	60	63	98	80	79	13	10	20	17	9	15	13	M5	35
FK 30	30	62	30	32	61	75	117	95	93	11	12	17	18	11	17.5	15	M6	40

## FF 支持側



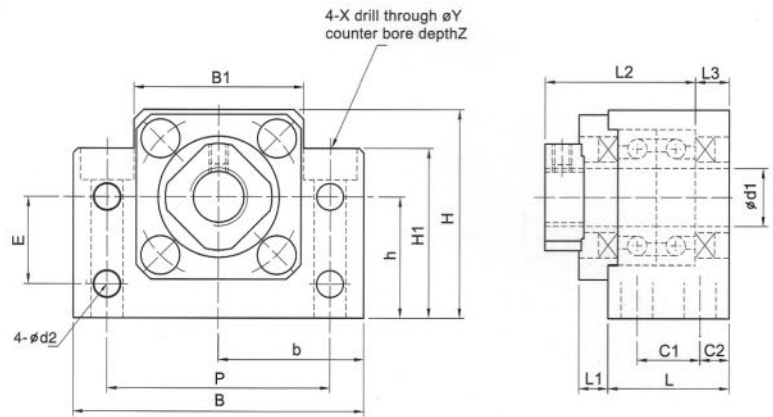
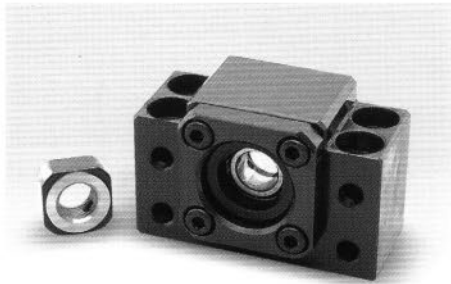
4-X drill through  $\phi Y$  counter bore depth Z



單位 : mm

型號	d1	L	H	F	Dg6	A	PCD	B	X	Y	Z
FF 10	8	12	7	5	28	43	35	35	3.4	6.5	4
FF 12	10	15	7	8	34	52	42	42	4.5	8	4
FF 15	15	17	9	8	40	63	50	52	5.5	9.5	5.5
FF 17	17	20	11	9	50	77	62	61	6.6	11	6.5
FF 20	20	20	11	9	57	85	70	68	6.6	11	6.5
FF 25	25	24	14	10	63	98	80	79	9	14	8.5
FF 30	30	27	18	9	75	117	95	93	11	17.5	11

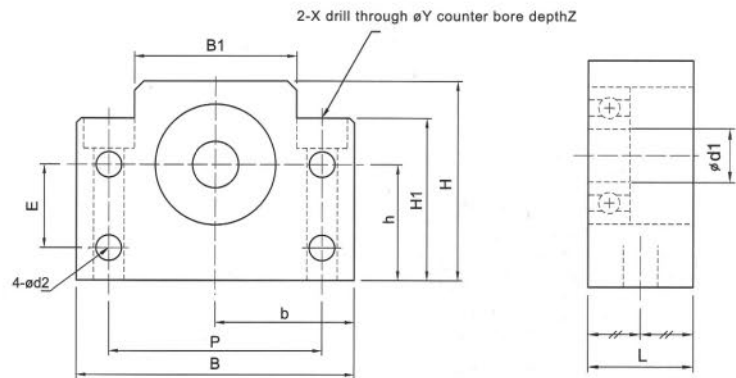
## BK 固定側



單位 : mm

型號	d1	L	L1	L2	L3	C1	C2	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	E	P	d2	X	Y	Z	M	T
BK 10	10	25	5	29	5	13	6	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5	M3	16
BK 12	12	25	5	29	5	13	6	60	43	30	25	35	32.5	18	46	5.5	6.6	10.8	1.5	M3	19
BK 15	15	27	6	32	6	15	6	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5	M3	22
BK 17	17	35	9	44	7	19	8	86	64	43	39	50	55	28	68	6.6	9	14	8.5	M4	24
BK 20	20	35	8	43	8	19	8	88	60	44	34	52	50	22	70	6.6	9	14	8.5	M4	30
BK 25	25	42	12	54	9	22	10	106	80	53	48	64	70	33	85	9	11	17.5	11	M5	35
BK 30	30	45	14	61	9	23	11	128	89	64	51	76	78	33	102	11	14	20	13	M6	40
BK 35	35	50	14	67	12	26	12	140	96	70	52	88	79	35	114	11	14	20	13	M8	50
BK 40	40	61	18	76	15	33	14	160	110	80	60	100	90	37	130	14	18	26	17.5	M8	50

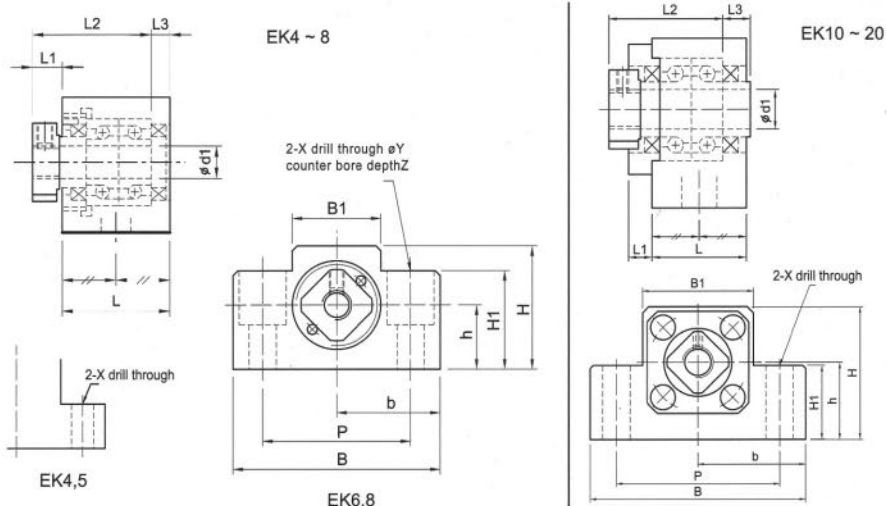
## BF 支持側



單位 : mm

型號	d1	L	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	E	P	d2	X	Y	Z
BF 10	8	20	60	39	30	22	34	32.5	15	46	5.5	6.6	10.8	5
BF 12	10	20	60	43	30	25	35	35	18	46	5.5	6.6	10.8	1.5
BF 15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5
BF 17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5
BF 20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5
BF 25	25	30	106	80	53	48	64	70	33	85	9	11	17.5	11
BF 30	30	32	128	89	64	51	76	78	33	102	11	14	20	13
BF 35	35	32	140	96	70	52	88	79	35	114	11	14	20	13
BF 40	40	37	160	110	80	60	100	90	37	130	14	18	26	17.5

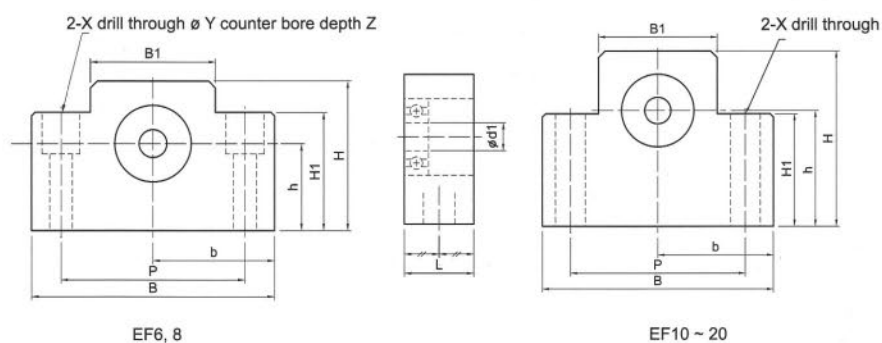
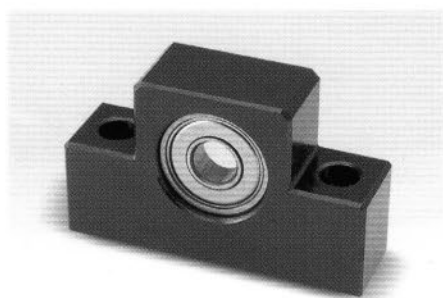
## EK 固定側



單位：mm

型號	d1	L	L1	L2	L3	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	P	X	Y	Z	M	T
EK 05	5	16.5	5.5	18.5	3.5	36	21	18	11	20	8	28	4.5	—	—	M2.6	11
EK 06	6	20	5.5	22	3.5	42	25	21	13	18	20	30	5.5	9.5	11	M3	12
EK 08	8	23	7	26	4	52	32	26	17	25	26	38	6.6	11	12	M3	14
EK 10	10	24	6	29.5	6	70	43	35	25	36	24	52	9	—	—	M3	16
EK 12	12	24	6	29.5	6	70	43	35	25	36	24	52	9	—	—	M3	19
EK 15	15	25	6	36	5	80	49	40	30	41	25	60	11	—	—	M3	22
EK 20	20	42	10	50	10	95	58	47.5	30	56	25	75	11	—	—	M4	30

## EF 支持側



單位：mm

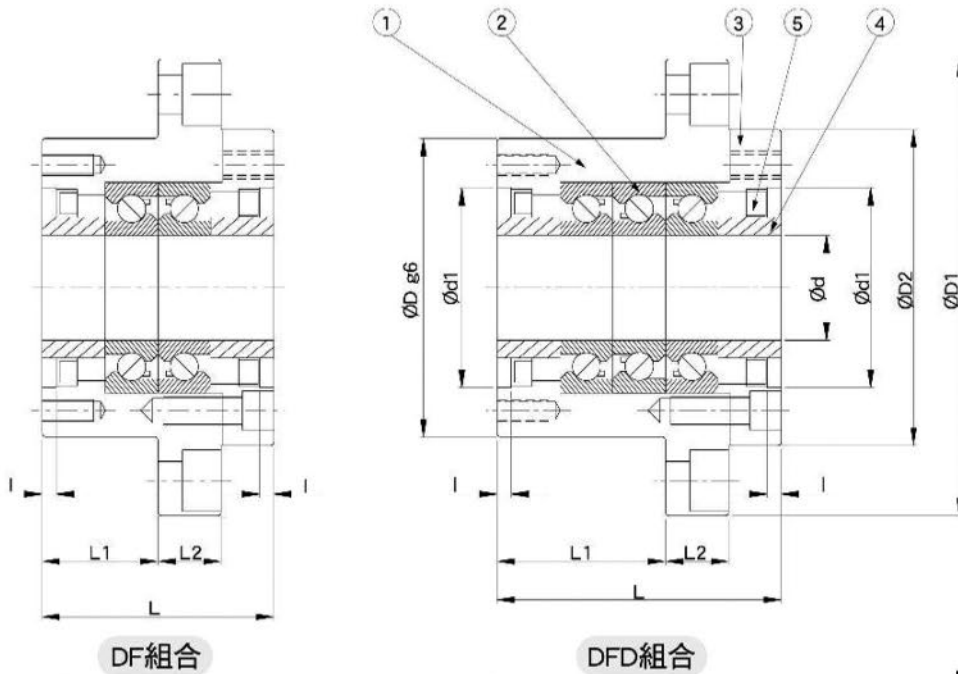
型號	d1	L	B	H	b <sup>±0.02</sup>	h <sup>±0.02</sup>	B1	H1	P	X	Y	Z
EF 06	6	12	42	25	21	13	18	20	30	5.5	9.5	11
EF 08	6	14	52	32	26	17	25	26	38	6.6	11	12
EF 10	8	20	70	43	35	25	36	24	52	9	—	—
EF 12	12	20	70	43	35	25	36	24	52	9	—	—
EF 15	15	20	80	49	40	30	41	25	60	9	—	—
EF 20	20	26	95	58	47.5	30	56	25	75	11	—	—

## WBK型高荷重支撐座

編號	部品名稱	數量
1	軸承座本體	1
2	軸承	1組
3	壓板	1
4	間隔圈	2
5	軸封	2
6	鎖固螺帽	1組



# WBK



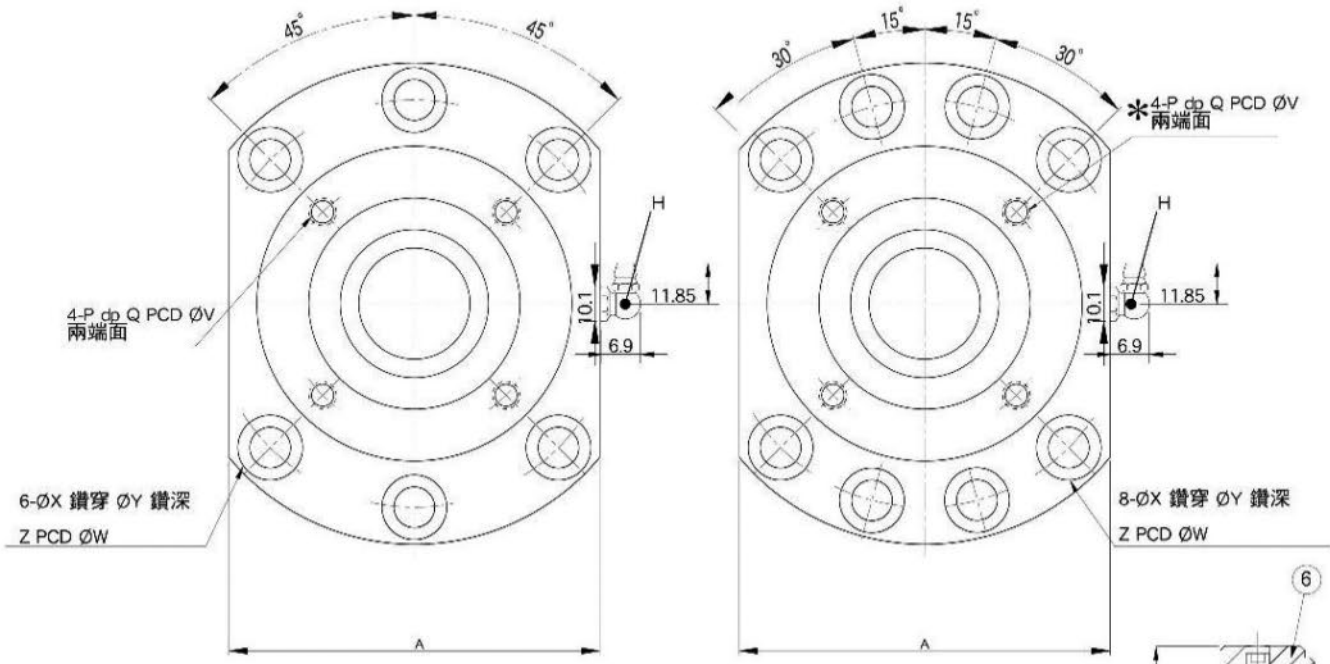
單位：mm

型號	支撐座尺寸																	
	d	D	D1	D2	L	L1	L2	A	W	X	Y	Z	d1	I	V	P	Q	H
WBK 17DF	17	70	106	72	60	32	15	80	88	9	14	8.5	45	3	58	M5	10	M6
WBK 20DF	20	70	106	72	60	32	15	80	88	9	14	8.5	45	3	58	M5	10	M6
WBK 25DF	25	85	130	90	66	33	18	100	110	11	17	11	57	4	70	M6	12	M6
WBK 25DFD					81	48												
WBK 25DFF					96	48												
WBK 30DF	30	85	130	90	66	33	18	100	110	11	17	11	57	4	70	M6	12	M6
WBK 30DFD					81	48												
WBK 30DFF					96	48												
WBK 35DF	35	95	142	102	66	33	18	106	121	11	17	11	69	4	80	M6	12	M6
WBK 35DFD					81	48												
WBK 35DFF					96	48												
WBK 40DF	40	95	142	102	66	33	18	106	121	11	17	11	69	4	80	M6	12	M6
WBK 40DFD					81	48												
WBK 40DFF					96	48												

備註：

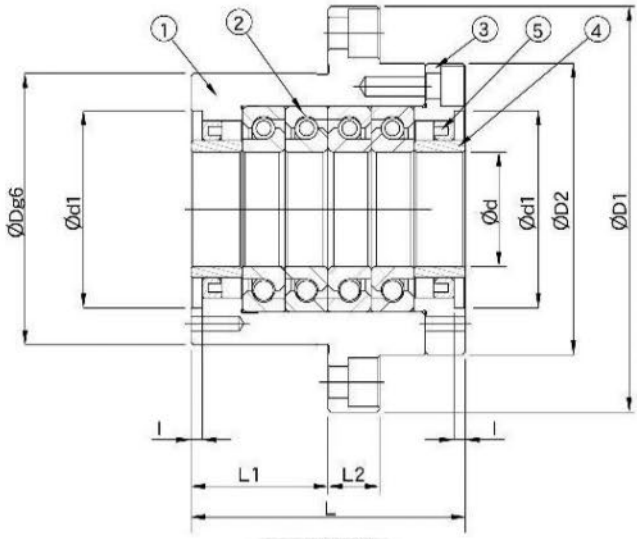
1. 軸承採用台、日系品牌大廠(P4級)斜角滾珠60°TAC。
2. 標準品無油嘴(標示★處)，若有需要請事先告知業務人員。



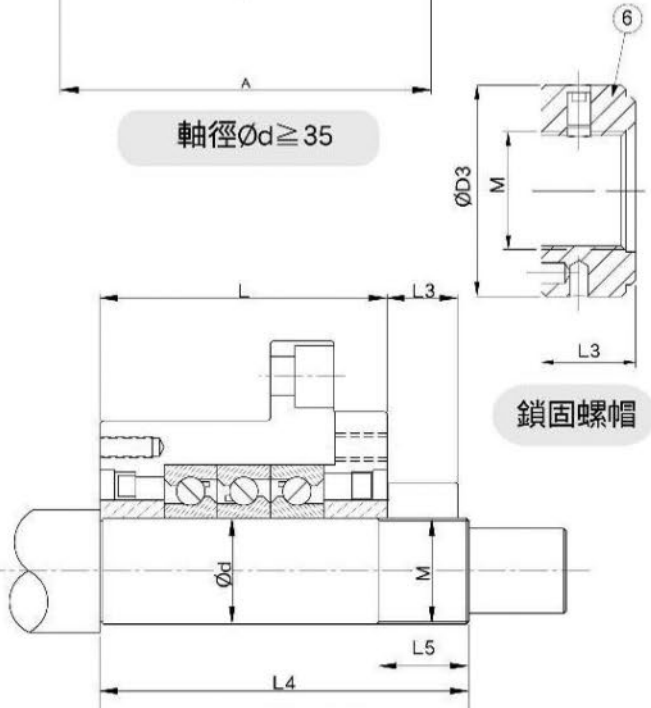


軸徑 $\phi d \leq 30$

軸徑 $\phi d \geq 35$



DFF組合



鎖固螺帽

軸端尺寸

單位：mm

型號	基本動定格荷重 (kgf)	軸向界限荷重 (kgf)	預壓荷重 (kgf)	軸方向剛性 (kgf/lum)	最大啟動力矩 (kgf-cm)	鎖固螺帽			重量 (Kgs)	軸端尺寸		
						M	D3	L3		$\phi$	L4	L5
WBK 17DF	2240	2710	220	75	1.9	M17X1	37	18	1.24	17	81	23
WBK 20DF	2240	2710	220	75	1.9	M20X1	40	18	2	20	81	23
WBK 25DF	2910	4150	320	100	2.9	M25X1.5	45	20	3.27	25	89	104
WBK 25DFD	4700	8300	440	150	4				3.81			
WBK 25DFF	4700	8300	640	200	5				4.46		119	
WBK 30DF	2980	4400	340	105	3	M30X1.5	50	20	3.18	30	89	104
WBK 30DFD	4850	8800	460	155	4				3.7			
WBK 30DFF	4850	8800	680	205	5.2				4.3		119	
WBK 35DF	3150	5100	390	120	3.5	M35X1.5	55	22	3.79	35	92	107
WBK 35DFD	5150	10200	530	175	4.6				4.45			
WBK 35DFF	5150	10200	780	240	6				5.21		122	
WBK 40DF	3250	5300	400	125	3.7	M40X1.5	60	22	3.65	40	92	107
WBK 40DFD	5250	10600	540	185	4.7				4.27			
WBK 40DFF	5250	10600	800	245	6.2				5		122	

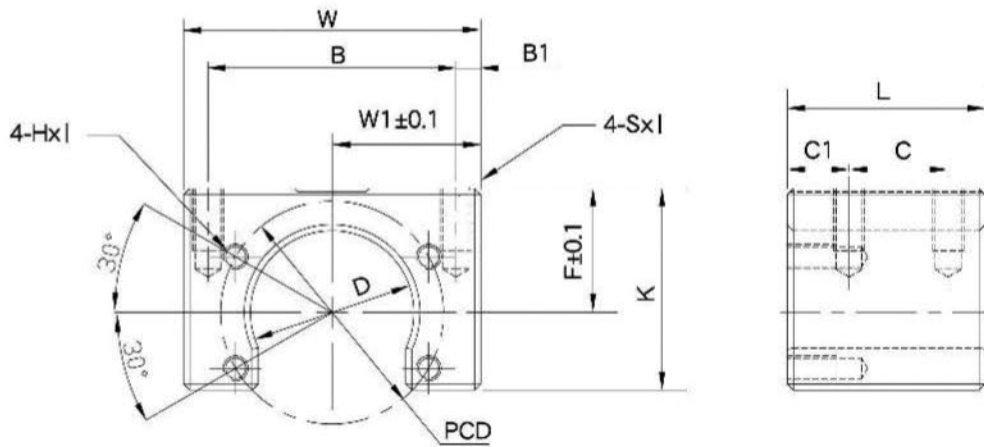
備註：

3.\*螺桿護套正確孔位請洽原廠。

MC螺帽支座



MC



單位：mm

型號	寬度 W	W1	B	B1	全長 L	C	C1	F	K	D	PCD	SxI	HxI	FA機械用 滾珠螺桿適用型號	重量 (Kgs)
MC 1004	48	24	40	4	32	16	10	20	32.5	26.4	36	M5×0.7×7	M4×0.7×7	BNK1004、BNK1005	0.24
MC 1205	60	30	47	6.5	36	24	6	21	37	30.4	40	M6×12	M4×0.7×7	BNK1205	0.38
MC 1408	60	30	50	5	36	20	10	21.5	37	34.4	45	M6×12	M5×0.8×7	BNK1408、BNK1510 BNK1520、BNK1616	0.34
MC 2010	86	43	70	8	50	30	10	31	54	46.4	59	M10×20	M6×10	BNK2010	1.04
MC 2020	86	43	70	8	40	24	8	28	51	39.4	59	M10×20	M6×10	BNK2020	0.83

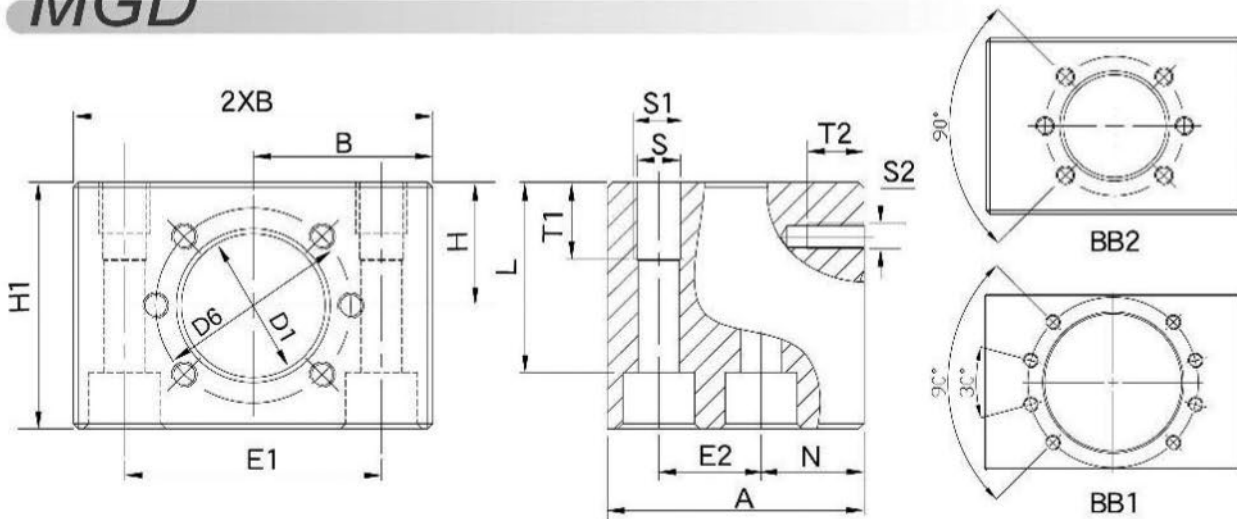
MC 螺帽座適用廠牌螺桿對照表

型號	廠牌螺桿					
	THK	NSK	HIWIN	PMI	COMTOP	GTEN
MC 1004	BNK1004, BNK1005	W1004 FA,	R1004FSW	FSW1404, FSIC1403 FSIC1404, FSIC1405		FSI1404, FSI1405
MC1205	BNK1205 BNK1205	W1205 FA, W1210 FA	R1205FSW, R1210FSW	FSWW1204, FSWC1204/05 FSWC1210, PTR1205/10/20	XSVR1210	FSC1210
MC 1408	BNK1408, BNK1510 BNK1520, BNK1616	W1405 FA, W1408 FA W1510 FA, W1520 FA W1616 FA, W1632 FA	R1405FSW, R1408FSW FSW1510, R1510DFSH R1520DFSH, R1520FSH, R1632DFSH	FSIC2005/06, FSWC1405 FSWC1510, FSKC1520 PTR1505/10/20	SFI 1610, SFI 2004 SFI 2005 XSVR1510, XSVR1520	FSI1610, FSI2005 FSC1520
MC 2010	BNK2010	W2010 FA, W2020 FA	R2010FSW, R2020FSW	FSWC2010, PTR2010	XSVR2010, XSVR2020	FSC2010
MC 2020	BNK2020		R 2020DFSH			



MGD螺帽支座

MGD



單位：mm

型號	Size	d <sub>0</sub> xP	Part number	D1±0.1	D6	A	B±0.1	H±0.1	H1	E1	E2	N	S	S1	T1	S2	T2	ISO4752	L	重量 (Kgs)	
MGD 16	16x5 16x16	16x10	1506-0-0050	28.4	38	50	35	24	48	50±0.1	20±0.1	20	8.4	M10	15	M5	10	BB2	M8	37	0.91
MGD 20L	20x5 20x20	20x20	1506-1-0050	36.4	47	55	37.5	23	48	55±0.1	23±0.1	22	-	M8	14	M6	11	BB2	-	-	-
MGD 20								28	54				8.4	M10	15				M8	45	1.18
MGD 25	25x5 25x25	25x10	1506-2-0050	40.4	51	55	40	30	58	60±0.1	23±0.1	22	8.4	M10	15	M6	11	BB2	M8	49	1.33
MGD32S	32x5 32x20	32x10 32x32	1506-3-0050	50.4	65	70	45	70	70±0.1	45±0.1	12.5	-	M12	20	M8	14	BB2	-	-	2.5	
MGD 32							50	68	75±0.1	30±0.1	27	13	M16					M12	52	2.77	
MGD 40	40x5 40x12 40x20	40x10 40x16 40x40	1506-4-0050	63.4	78	80	60	42	84	90±0.1	35±0.1	31	15	M18	25	M8	17	BB1	M14	66	3.61

MGD螺帽座適用廠牌螺桿規格

型號	廠牌螺桿				
	STAR	HIWIN	PMI	COMTOP	GTEN
MGD 16	1502,1512-0-****	FSI-16-05	FSIN-16-05	SFU 1605	FSU 1605
MGD 20	1502,1512-1-****	FSI-20-05	FSIN-20-05	SFU 2005	FSU 2005
MGD 25	1502,1512-2-****	FSI-25-05	FSIN-25-05	SFU 2505	FSU 2505
		FSI-25-10	FSIN-25-10	SFU 2510	FSU 2510
MGD 32	1502,1512-3-****	FSI-32-05	FSIN-32-05	SFU 3205	FSU 3205
		FSI-32-10	FSIN-32-10	SFU 3210	FSU 3210
MGD 40	1502,1512-4-****	FSI-40-05	FSIN-40-05	SFU 4005	FSU 4005
		FSI-40-10	FSIN-40-10	SFU 4010	FSU 4010



## 6. 軸心式滑軌/軸心



## 軸心式滑軌

### 特長

#### 1. 耐蝕性及防銹性

軸心式滑軌之滑塊、軸心支持座，材質為鋁合金，加工後表面經陽極處理，不僅外型美觀且具耐蝕性，再加上軸心鍍硬鉻不生銹故具有優異的防銹效果。

#### 2. 組裝容易

軸心式滑軌產品已標準化、規格化，客戶設計選用不僅方便，而且在組裝上非常的便利與容易。

#### 3. 互換容易

滑塊與滑軌可分開供貨，客戶長期使用一段時間，縱使有磨耗、損傷時，具有完全的互換性。

#### 4. 運轉平順、低噪音

**LGD**系列由滾輪與軸心接觸均勻滑動。

**LMC**系列由線性軸承與軸心接觸滑動。

故其運轉時非常平順且低噪音。

#### 5. 經濟效益佳

具輕量化、耐蝕性、互換性、組裝容易等特性，應用在各種機械設備上，可發揮最大的性能，達到省力化、輕巧化、自動化的最大經濟效益。

#### 6. 低成本

軸心式滑軌構造簡單，大量生產，產品組配容易、迅速。與各滑軌種類比較，其成本相對較低，具有價格競爭優勢。

## SHAFT TYPE LINEAR GUIDES FEATURES

#### 1. Corrosion Resistance and Antirust

The material of aluminum alloy is shaft type of linear blocks and shaft supporters, which surface finish with anodizing also. In other hand, shafts with harden chromed, so not only pleasing appearance also with superior antirust.

#### 2. Family Easy Assembly

Shaft type linear guides make to standardize and conformity, which is simple for customer's design and assembly.

#### 3. Easy Interchangeability

Linear blocks and track rail can be purchased separately. After customers long-term using, interchangeable freely replace for damage or losing ones.

#### 4. Smooth Movement with Quiet

**LGD** Series has well-balanced rolling contact between carrying rollers and shaft.

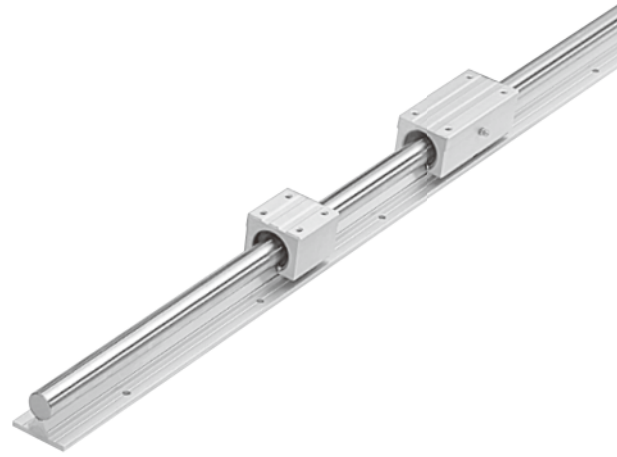
**LMC** Series contact movement between linear ball bearings and shaft. It is very quiet of smooth motion.

#### 5. High Economic Efficiency

The advantages are lightweight, corrosion resistance, interchangeably and easy assembly. Those are optimum and wide ranges of application for machine equipment.

#### 6. Low Total Cost

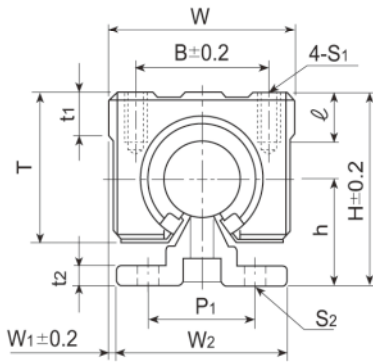
Shaft type linear guides with simple structures, high productivity, and easy and prompt assembly. It's lower cost and more competitive pricing, if contrast with linear guideways.



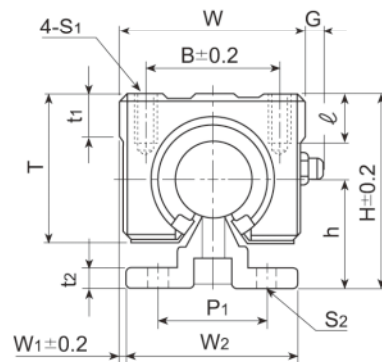
# LMC-C 軸心式滑軌(不生銹)

# LMCL-C Anticorrosive Linear Guide

滑塊：線性軸承式  
Linear Block : Linear ball bearing type



**LMC-C**  
LMC-C12 ~ LMC-C40



**LMCL-C**  
(加長型/Long Type)  
LMCL-C12 ~ LMCL-C30

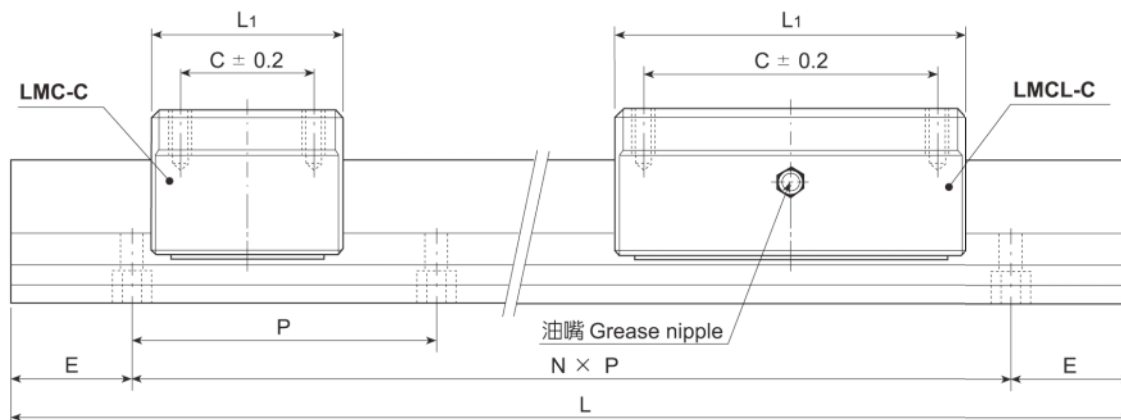
型號 Model No.	軸徑 Shaft diameter	組合尺寸 Dimensions of assembly				滑塊尺寸 Dimensions of block							
		H	h	W <sub>1</sub>	W	L <sub>1</sub>	B	C	t <sub>1</sub>	ℓ	S <sub>1</sub>	T	G
<b>LMC-C12</b>	12	34.5	19.5	2	36	34	26	24	7	10	M5	24	—
<b>LMCL-C12</b>						68		45					8
<b>LMC-C16</b>	16	45	25	2.5	45	45	32	30	9	12	M5	33	—
<b>LMCL-C16</b>						85		60					8
<b>LMC-C20</b>	20	50	27	1.5	48	50	35	35	11	12	M6	39	—
<b>LMCL-C20</b>						96		70					8
<b>LMC-C25</b>	25	60	33	2.5	60	65	40	40	14	12	M6	47	—
<b>LMCL-C25</b>						130		100					8
<b>LMC-C30</b>	30	70	37	5	70	70	50	50	15	18	M8	56	—
<b>LMCL-C30</b>						140		110					8
<b>LMC-C40</b>	40	90	48	7.5	90	90	65	65	20	20	M10	72	—

Example of identification number:

**LMC-C25-B2-2400**

① ② ③ ④

- ① Model No: LMC-C, LMCL-C
- ② Shaft Diameter (mm): Shaft : Hardened(HRC62±2)ground and chromium plated  
Shaft type: SCFB(see page 16)
- ③ Number of blocks per track rail: B1: 1 Block B2: 2 Blocks B3: 3 Blocks,...
- ④ Length of track rail: (2400mm)



$$E: \frac{L - (N \times P)}{2}$$

N : 孔距之個數(number of pitches)

單位(unit) : mm

軌道尺寸 Dimensions of track rail					基本動定格荷重 Basic dynamic load rating	基本靜定格荷重 Basic static load rating	型號 Model No.	
W <sub>2</sub>	P <sub>1</sub>	t <sub>2</sub>	P	S <sub>2</sub>	L (max)	C (kgf)	Co (kgf)	
32	23	4	100	4.5	3,600	42	61	<b>LMC-C12</b>
						84	122	<b>LMCL-C12</b>
40	30	5	150	5.5	3,600	79	120	<b>LMC-C16</b>
						158	240	<b>LMCL-C16</b>
45	30	5	150	5.5	4,200	90	140	<b>LMC-C20</b>
						180	280	<b>LMCL-C20</b>
55	35	6	200	6.5	4,200	100	160	<b>LMC-C25</b>
						200	320	<b>LMCL-C25</b>
60	40	7	200	6.5	4,200	160	280	<b>LMC-C30</b>
						320	560	<b>LMCL-C30</b>
75	55	9	300	9	4,200	220	410	<b>LMC-C40</b>

訂購例 :

**LMC-C25-B2-2400**

① ② ③ ④

① 型號 : LMC-C, LMCL-C

② 軸徑 (mm): 軸心熱處理(HRC 62±2)鍍硬鉻及研磨  
軸心 : SCFB(參閱16頁)

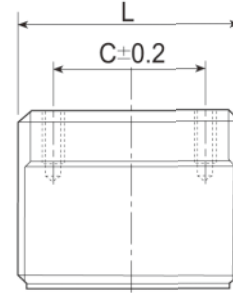
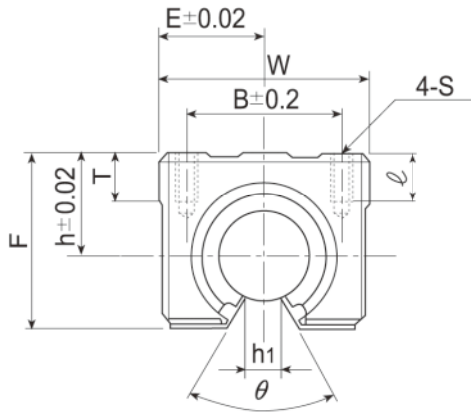
③ 1支滑軌上滑塊之個數 : B1 : 1個、B2 : 2個、B3 : 3個,...

④ 滑軌長度 : (2400mm)

# LMC 開口型連座線性軸承

## Open Type Linear Block

(Linear Ball Bearing Type)



單位(unit) : mm

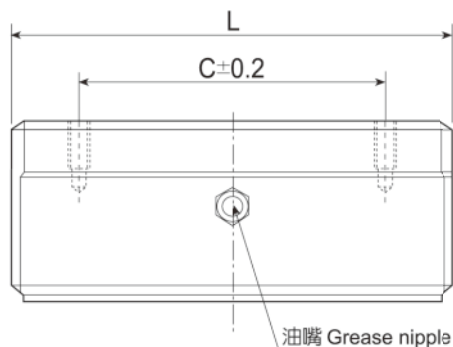
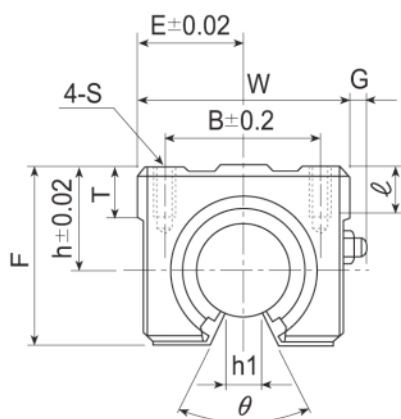
型號 Model No.	軸徑 Shaft diameter	主要尺寸 Main dimensions								裝配尺寸 Mounting dimension				線性軸承 Linear ball bearing			重量 Weight g
		h	E	W	L	F	T	h1	θ	B	C	S	ℓ	※型號	基本動定格荷重	基本靜定格荷重	
														※Linear ball bearing No.	C (kgf)	Co(kgf)	
LMC12UU	12	15	18	36	34	24	7	8	80°	26	24	M5	10	LM12UU OP	42	61	65
LMC16UU	16	20	22.5	45	45	33	9	10	80°	32	30	M5	12	LM16UU OP	79	120	150
LMC20UU	20	23	24	48	50	39	11	10	60°	35	35	M6	12	LM20UU OP	90	140	200
LMC25UU	25	27	30	60	65	47	14	11.5	50°	40	40	M6	12	LM25UU OP	100	160	450
LMC30UU	30	33	35	70	70	56	15	14	50°	50	50	M8	18	LM30UU OP	160	280	630
LMC40UU	40	42	45	90	90	72	20	19	50°	65	65	M10	20	LM40UU OP	220	410	1,330



# LMC-L 開口加長型連座線性軸承

## Open Long Type Linear Block

(Linear Ball Bearing Type)



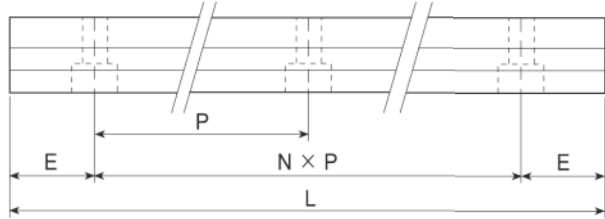
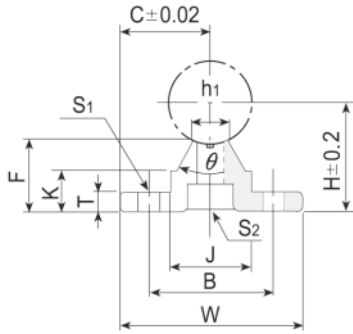
單位(unit) : mm

型號 Model No.	軸徑 Shaft diameter	主要尺寸 Main dimensions									裝配尺寸 Mounting dimension				線性軸承 Linear ball bearing			重量 Weight g
		h	E	W	L	F	T	G	h1	θ	B	C	S	ℓ	※ 型號	基本動定格荷重	基本靜定格荷重	
															※ Linear ball bearing No.	C (kgf)	Co(kgf)	
<b>LMC12LUU</b>	12	15	18	36	68	24	7	8	8	80°	26	45	M5	10	LM12UU OPX2	84	122	130
<b>LMC16LUU</b>	16	20	22.5	45	85	33	9	8	10	80°	32	60	M5	12	LM16UU OPX2	158	240	300
<b>LMC20LUU</b>	20	23	24	48	96	39	11	8	10	60°	35	70	M6	12	LM20UU OPX2	180	280	400
<b>LMC25LUU</b>	25	27	30	60	130	47	14	8	11.5	50°	40	100	M6	12	LM25UU OPX2	200	320	900
<b>LMC30LUU</b>	30	33	35	70	140	56	15	8	14	50°	50	110	M8	18	LM30UU OPX2	320	560	1,260

# SA 軸心支持座

## Supporter For Tapped Shaft

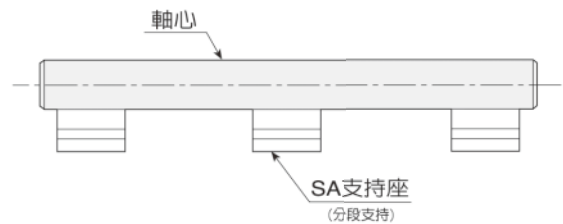
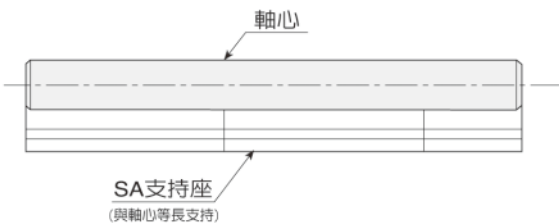
材質：鋁合金  
Material : Aluminum alloy



單位(unit) : mm

型號 Model No.	軸徑 Shaft diameter	主要尺寸 Main dimensions										裝配尺寸 Mounting dimensions					重量 Weight g
		H	C	W	L	F	T	K	J	h <sub>1</sub>	θ	B	E	N × P	S <sub>1</sub>	S <sub>2</sub>	
SA12-600	12	19.5	16	32	600	14	4	9.2	13	5.5	60°	23	50	5x100	4.5	M4	345
SA12-1200					1200									11x100			
SA16-600	16	25	20	40	600	17.8	5	11.7	18.5	8	80°	30	75	3x150	5.5	M5	600
SA16-1200					1200									7x150			
SA20-600	20	27	22.5	45	600	17.7	5	10	19	8	50°	30	75	3X150	5.5	M6	610
SA20-1200					1200									7X150			
SA25-600	25	33	27.5	55	600	21	6	12	21.5	8	50°	35	100	2x200	6.5	M6	800
SA25-1200					1200									5X200			
SA30-600	30	37	30	60	600	22.8	7	13	26.5	10.3	50°	40	100	2X200	6.5	M8	1,100
SA30-1200					1200									5X200			
SA40-600	40	48	37.5	75	600	29.4	9	17	38	15.5	50°	55	150	1X300	9	M8	1,950
SA40-1200					1200									3X300			

使用例 :



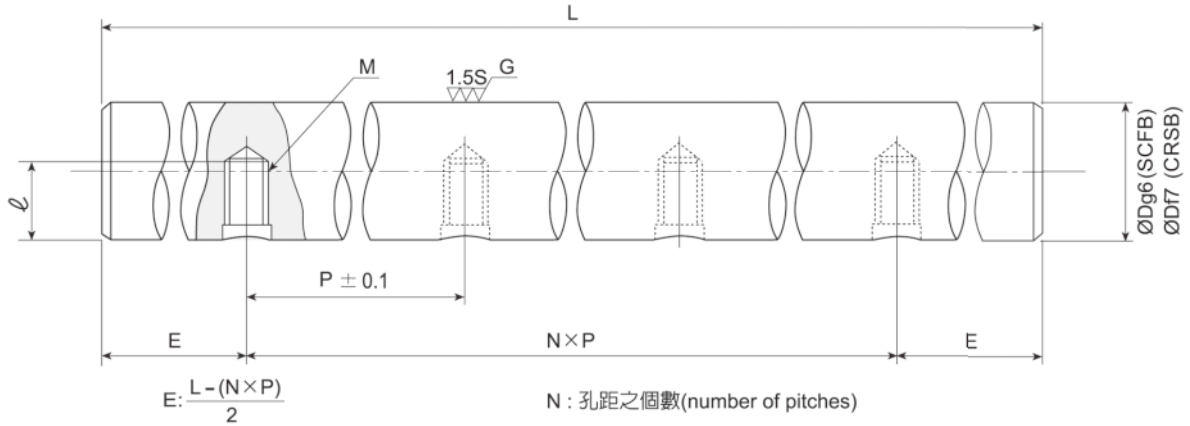


# SCFB 外徑攻牙軸心(SUJ2鍍鉻, 不生銹)

材質：軸承鋼(SUJ2) 高週波熱處理，研磨及表面鍍硬鉻  
 硬度：HRC 62±2

# CRSB 外徑攻牙軸心(S45C鍍鉻, 不生銹)

材質：中碳鋼(S45C)  
 處理方式：表面鍍硬鉻



單位(unit) : mm

外徑	型號	外徑公差 μm	孔距	螺栓	螺牙深度	最大長度	重量
D	SCFB	g6	P	M	ℓ	L(max)	kg/m
12	SCFB12	-6 -17	100	M4x0.7	5.5	4,000	0.89
16	SCFB16		150	M5x0.8	7	4,000	1.58
20	SCFB20	-7 -20	150	M6x1	10	4,200	2.47
25	SCFB25		200	M6x1	12	4,200	3.85
30	SCFB30		200	M8x1.25	15	4,200	5.55
35	SCFB35	-9	200	M8x1.25	15	4,200	7.55
40	SCFB40	-25	300	M8x1.25	18	4,200	9.87

訂購例：

**SCFB 20x1500**

①

②

① 型號：軸心外徑

② 總長度

訂購例：

**CRSB 20x1500**

①

②

① 型號：軸心外徑

② 總長度

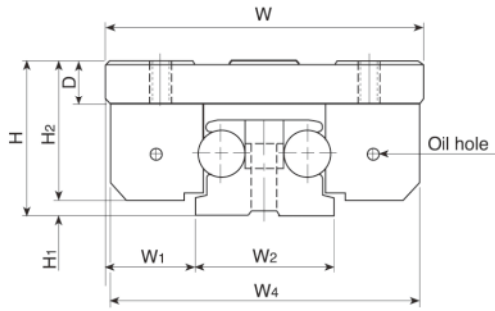
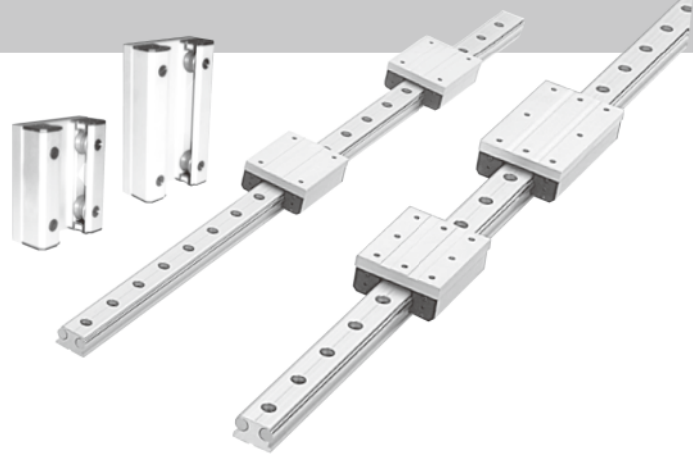
單位(unit) : mm

外徑	型號	外徑公差 μm	孔距	螺栓	螺牙深度	最大長度	重量
D	CRSB	f7	P	M	ℓ	L(max)	kg/m
12	CRSB12	-16 -34	100	M4x0.7	5.5	4,000	0.89
16	CRSB16		150	M5x0.8	7	4,000	1.58
20	CRSB20	-20 -41	150	M6x1	10	4,200	2.47
25	CRSB25		200	M6x1	12	4,200	3.85
30	CRSB30		200	M8x1.25	15	4,200	5.55
35	CRSB35	-25	200	M8x1.25	15	4,200	7.55
40	CRSB40	-50	300	M8x1.25	18	4,200	9.87

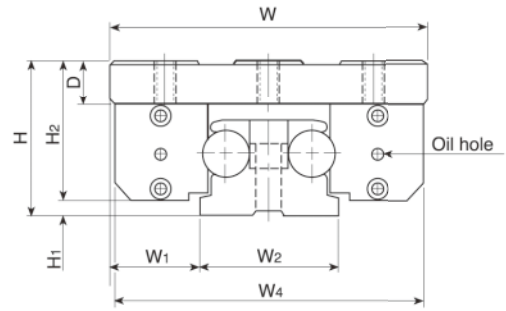
# LGD 軸心式滑軌(不生銹)

## Anticorrosive Linear Guide

一個滑塊含4個滾輪軸承  
One Block with 4 Rolling Bearings



**LGD8 / LGD8L**



**LGD12 / LGD12L  
LGD16 / LGD16L**

型號 Model No.	軸徑 Shaft diameter	組合尺寸 Dimensions of assembly			滑塊尺寸 Dimensions of block									
		H	H <sub>1</sub>	W <sub>1</sub>	W	W <sub>4</sub>	H <sub>2</sub>	D	L <sub>1</sub>	B	B <sub>1</sub>	C	C <sub>1</sub>	Slot depth
<b>LGD8</b>	8	30	3.5	16	60	59	26.5	9	70	40	10	50	10	M6x9
<b>LGD8L</b>									100			80		
<b>LGD12</b>	12	40	3	23	82	80	37	12	100	27	14	38	12	M6x12
<b>LGD12L</b>									140			58		
<b>LGD16</b>	16	50	5	35	120	118	45	14	150	45	15	60	15	M8x16
<b>LGD16L</b>									190			80		

Example of identification number:

**LGD12-B2-R1800C**

①      ②      ③

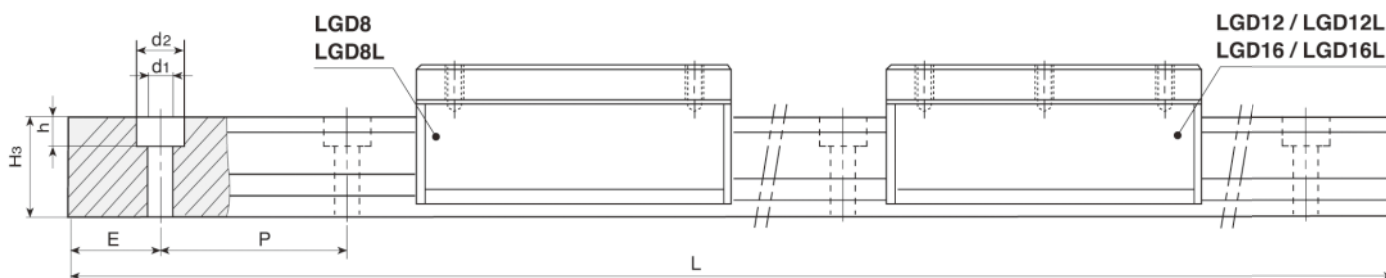
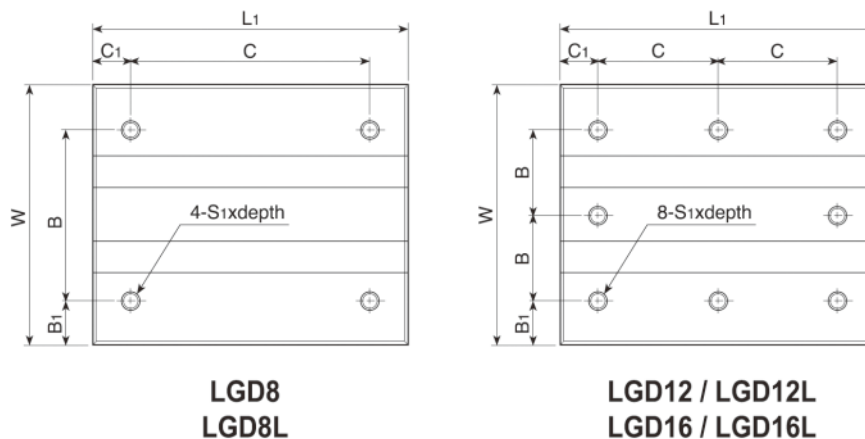
① Model No.

② Number of blocks per track rail:

B1: 1 Block B2: 2 Blocks B3: 3 Blocks, ...

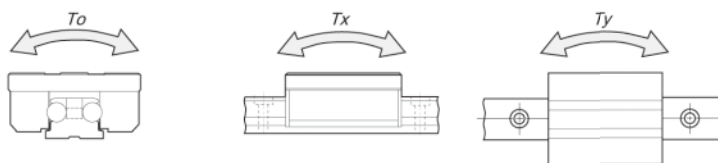
③ Length of track rail (1800mm):

Shaft: Hardened(HRC62±2)ground and chromium plated



單位(unit) : mm

軌道尺寸 Dimensions of track rail								基本動定格荷重 Basic dynamic load rating C (kgf)	基本靜定格荷重 Basic static load rating Co(kgf)	容許靜力矩 Allowable static moment			重量 Weight		型號 Model No.
W2	H3	d1	d2	h	P	E	L(max)			To (kgf-m)	Tx (kgf-m)	Ty (kgf-m)	滑塊 Block (kg)	軌道 Track rail (kg/m)	
28	18.5	5.5	10	5.2	50	25	3,000	80	130	3.6	3.0	3.2	0.21	1.65	<b>LGD8</b>
										3.6	4.6	5.5	0.28		
36	24.5	6.8	12.6	6.2	50	25	4,200	180	290	5.4	4.0	4.8	0.52	3.2	<b>LGD12</b>
										5.4	7.2	8.5	0.70		
50	32	9	20	9	80	40	4,200	330	530	13.5	19.8	21.6	1.35	6.0	<b>LGD16</b>
										13.5	35.6	38.2	1.65		



訂購例 :

**LGD12-B2-R1800C**

①      ②      ③

① 型號

② 1支滑軌上滑塊之個數 :

B1 : 1個、B2 : 2個、B3 : 3個、...

③ 滑軌長度 (1800mm):

軸心 : 熱處理(HRC 62±2), 鍍硬鉻及研磨

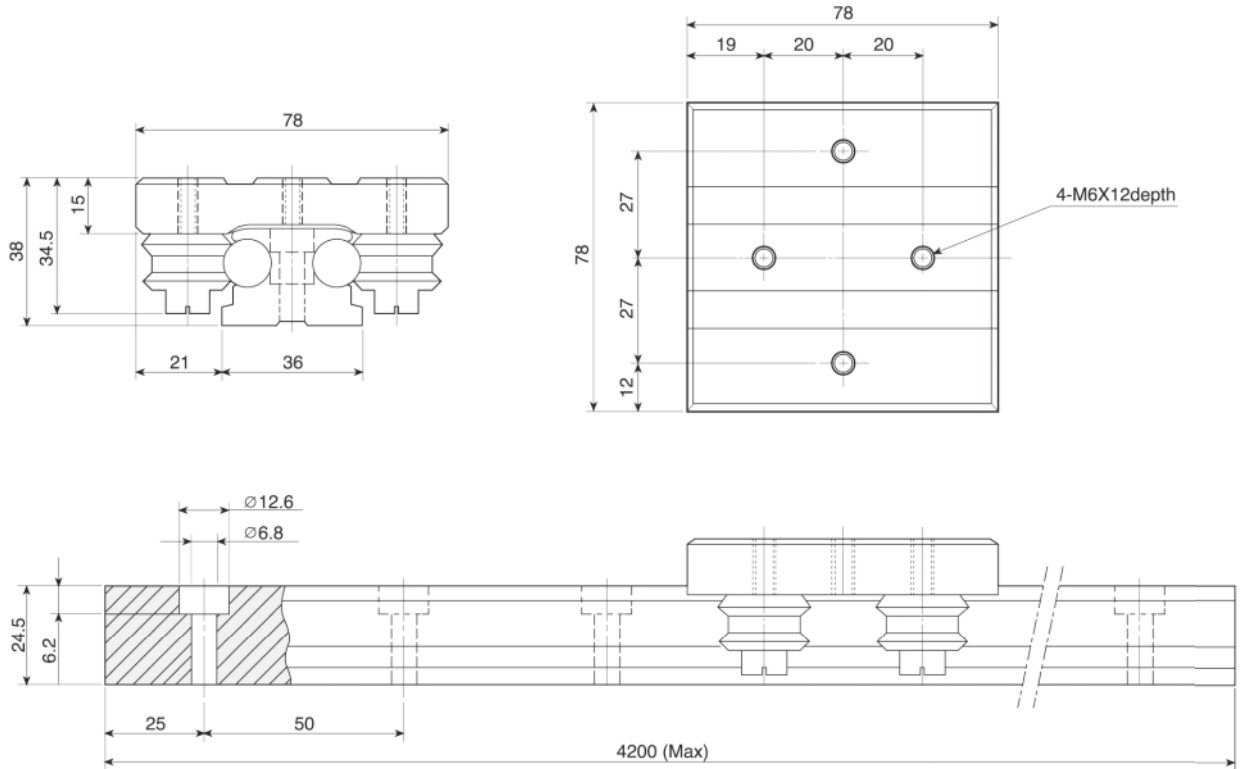
# LGD12E 軸心式滑軌(不生銹)

## Anticorrosive Linear Guide

經濟型 Economical Type

一個滑塊含4個滾輪軸承

One Block with 4 Rolling Bearings



**訂購例：**

**LGD12E-B2-R1800C**

① ② ③

① 型號：LGD12E

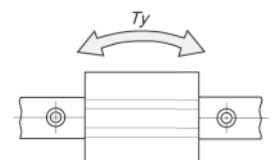
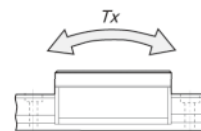
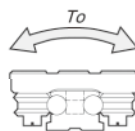
② 1支滑軌上滑塊之個數：

B1：1個、B2：2個、B3：3個，...

③ 滑軌長度(1800mm)：

軸心：熱處理(HRC 62±2), 鍍硬鉻及研磨

軸徑 Shaft diameter (mm)	基本動定格荷重 Basic dynamic load rating C (kgf)	基本靜定格荷重 Basic static load rating Co(kgf)	容許靜力矩 Allowable static moment			重量 Weight	
			To (kgf-m)	Tx (kgf-m)	Ty (kgf-m)	滑塊 Block kg	軌道 Track rail kg/m
12	140	230	4.3	3.2	3.8	0.36	3.2



**Example of identification number:**

**LGD12E-B2-R1800C**

① ② ③

① Model No.:LGD12E

② Number of blocks per track rail:

B1: 1 Block B2: 2 Blocks B3: 3 Blocks, ...

③ Length of track rail (1800mm):

Shaft:Hardened(HRC62±2)ground and chromium plated

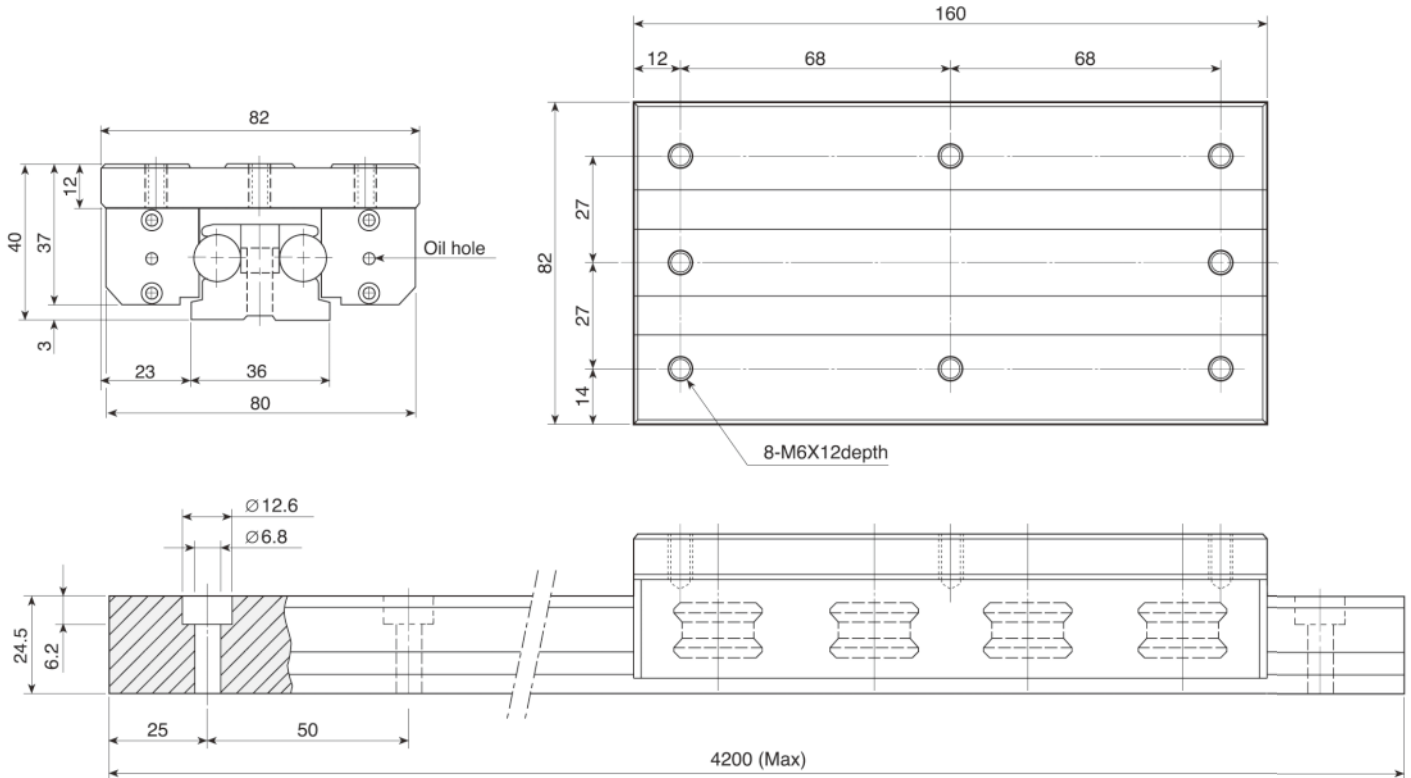
# LGD12XL 軸心式滑軌(不生銹)

## Anticorrosive Linear Guide

荷重型 Heavy Load Type

一個滑塊含8個滾輪軸承

One Block with 8 Rolling Bearings



訂購例：

**LGD12XL-B2-R1800C**

① ② ③

① 型號：LGD12XL

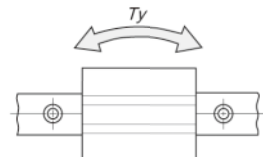
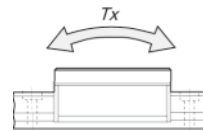
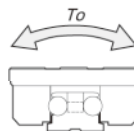
② 1支滑軌上滑塊之個數：

B1：1個、B2：2個、B3：3個，...

③ 滑軌長度(1800mm)：

軸心：熱處理(HRC62±2)，鍍硬鉻及研磨

軸徑 Shaft diameter (mm)	基本動定格荷重 Basic dynamic load rating C (kgf)	基本靜定格荷重 Basic static load rating Co(kgf)	容許靜力矩 Allowable static moment			重量 Weight	
			To (kgf-m)	Tx (kgf-m)	Ty (kgf-m)	滑塊 Block kg	軌道 Track rail kg/m
12	290	460	8.7	11.2	13.6	0.86	3.2



Example of identification number:

**LGD12XL-B2-R1800C**

① ② ③

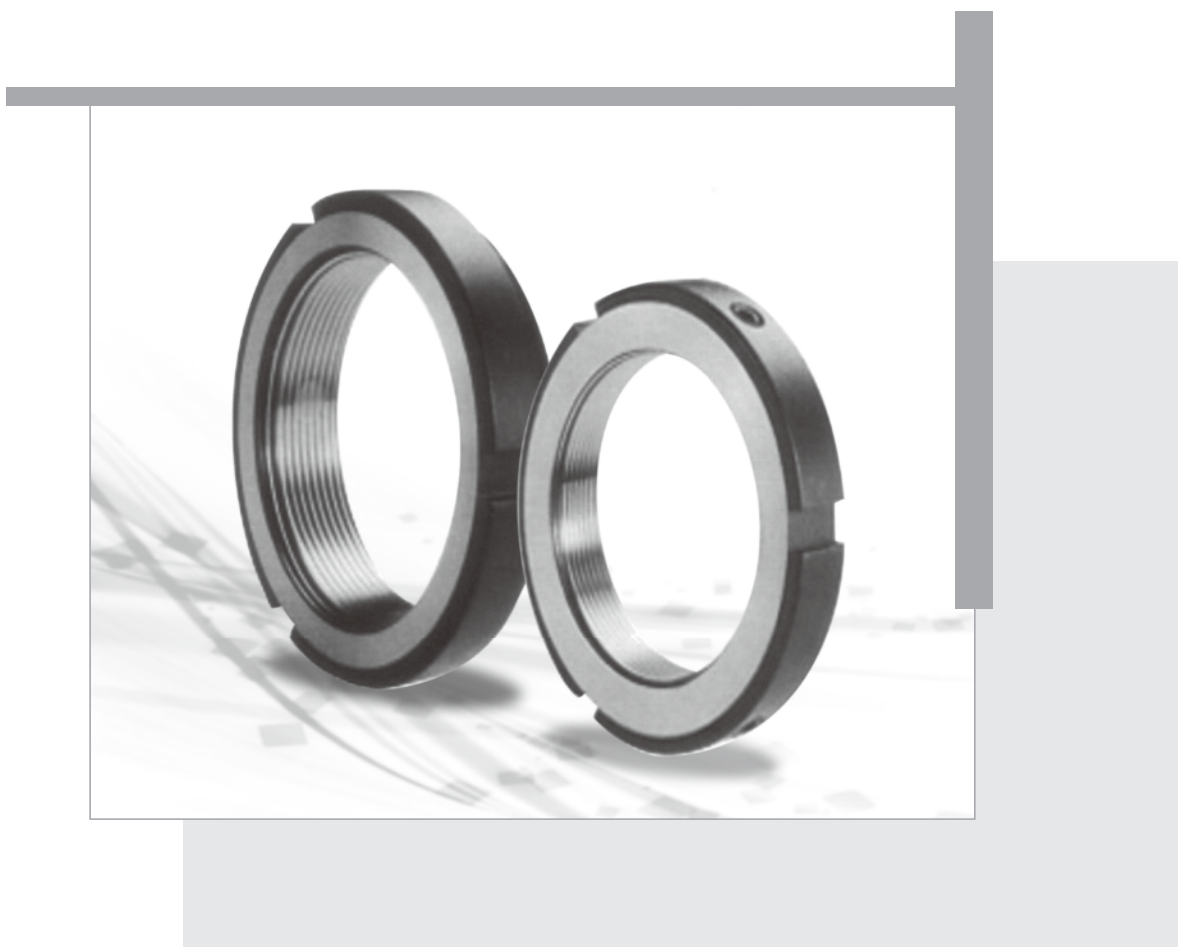
① Model No.:LGD12XL

② Number of blocks per track rail:

B1: 1 Block B2: 2 Blocks B3: 3 Blocks, ...

③ Length of track rail (1800mm):

Shaft:Hardened(HRC62±2)ground and chromium plated

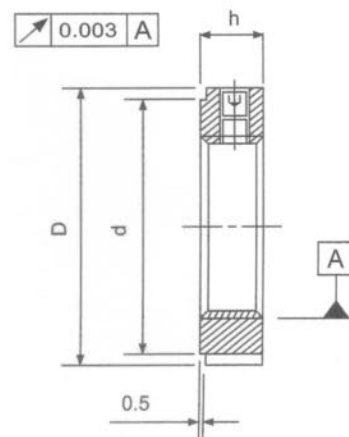
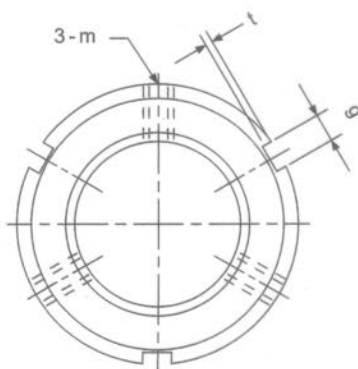


## 7. 精密螺帽



# 精密鎖緊螺母

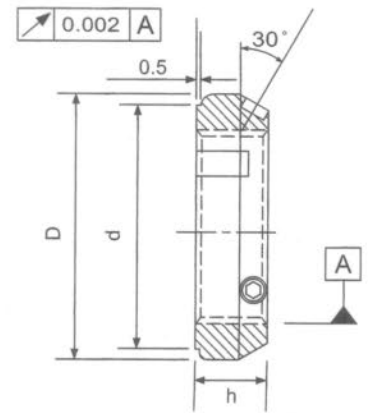
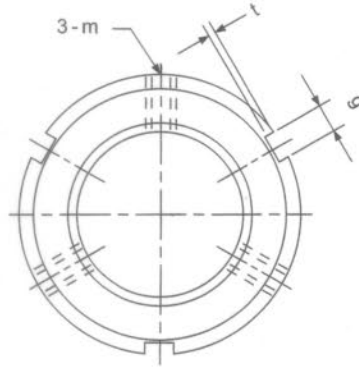
## 徑向鎖定 SERIES-RADIAL LOCKING



Thread & Pitch	D	H	g	t	d	m
MR10 × 0.75	21	9	4	2	17	M5
MR12 × 1.0	24	9	4	2	19	
MR15 × 1.0	27	9	4	2	22	
MR17 × 1.0	29	10	4	2	24	
MR20 × 1.0	33	10	4	2	28	
MR20 × 1.5	33	10	4	2	28	
MR25 × 1.5	39	12	5	2	34	M6
MR30 × 1.5	45	12	5	2	40	
MR35 × 1.5	53	12	5	2	47	
MR40 × 1.5	58	14	6	2.5	52	
MR45 × 1.5	64	14	6	2.5	58	
MR50 × 1.5	69	14	6	3	63	
MR55 × 2.0	74	16	7	3	67	M8
MR60 × 2.0	79	16	7	3	72	
MR65 × 2.0	88	16	7	3	80	
MR70 × 2.0	93	18	8	3.5	84	
MR75 × 2.0	98	18	8	3.5	89	
MR80 × 2.0	103	18	8	3.5	94	
MR85 × 2.0	112	18	8	3.5	102	
MR90 × 2.0	118	20	10	4	108	
MR100 × 2.0	128	20	10	4	118	
MR110 × 2.0	143	22	10	5	132	
MR120 × 2.0	153	24	12	5	142	M10
MR130 × 2.0	163	24	12	5	152	
MR140 × 2.0	178	26	12	5	165	
MR150 × 2.0	198	26	12	5	185	

精密鎖緊螺母

30°鎖定 SERIES-RADIAL LOCKING

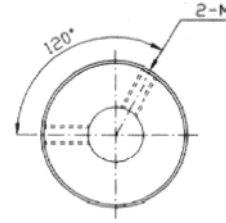
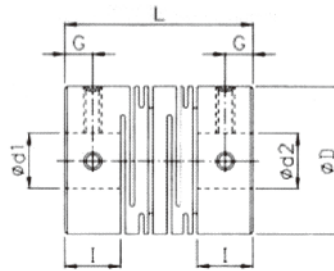


Thread & Pitch	D	H	g	t	d	m
MF15 × 1.0	30	14	4	2	25	M5
MF20 × 1.0	38	16	4	2	33	M6
MF20 × 1.5	38	16	4	2	33	
MF25 × 1.5	41	18	5	2	36	
MF30 × 1.5	48	18	5	2	42	
MF35 × 1.5	53	18	5	2	47	
MF40 × 1.5	58	20	6	2.5	51	
MF45 × 1.5	68	20	6	2.5	59	M8
MF50 × 1.5	73	20	6	2.5	64	
MF55 × 2.0	78	22	7	3	68	
MF60 × 2.0	83	22	7	3	73	
MF65 × 2.0	88	22	7	3	78	
MF70 × 2.0	93	24	8	3.5	84	
MF75 × 2.0	98	24	8	3.5	89	
MF80 × 2.0	103	24	8	3.5	94	
MF85 × 2.0	108	24	8	3.5	99	
MF90 × 2.0	118	26	10	4	108	
MF100 × 2.0	128	26	10	4	118	M10
MF110 × 2.0	143	28	12	5	132	
MF120 × 2.0	153	30	12	5	142	
MF130 × 2.0	163	30	12	5	152	
MF140 × 2.0	178	32	12	5	165	
MF150 × 2.0	193	32	12	5	181	



## 8. 聯軸器

# DCT/DCTS 開縫型 / 止付螺絲固定式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

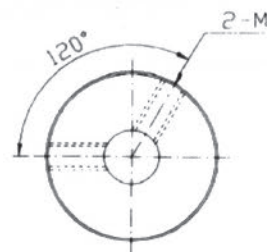
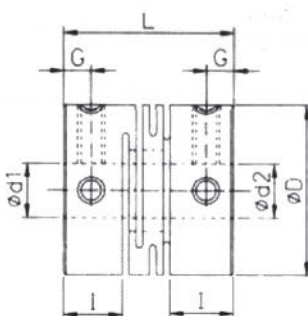
單位/Unit: mm

型號 Catalog Number	D	I	L	G	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
						Min	Max	
DCT - 8	8	3.5	14	1.7	M2	2	4	1.3
DCT - 12	12	5.0	18.5	2.5	M2.5	3	6	4.5
DCT - 16	16	6.5	23	3.0	M3	4	8	9.5
DCT - 20	20	7.5	26	3.0	M4	5	10	16
DCT - 25	25	8.5	31	4.0	M4	5	12	30
DCT - 32	32	12	41	6.0	M5	6	14	65
DCT - 40	40	15	56	8.5	M5	8	20	120
DCT - 50	50	18	71	10.5	M6	12	25	230
DCT - 63	63	22	90	13.0	M8	15	35	470
DCTS - 12	12	5.0	18.5	2.5	M2.5	3	6	14
DCTS - 16	16	6.5	23	3.0	M3	4	8	28
DCTS - 20	20	7.5	26	3.0	M4	5	10	45
DCTS - 25	25	8.5	31	4.0	M4	6	12	95
DCTS - 32	32	12	41	6.0	M5	6	14	220
DCTS - 40	40	15	56	8.5	M5	8	20	350
DCTS - 50	50	18	71	10.5	M6	12	25	700
DCTS - 63	63	22	90	13.0	M8	15	35	1300

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	剛性靜 扭力值 Static Torsional Stiffness (N.m/rad)	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸向位差 Errors of Shaft End-Play (mm)
DCT- 8	0.1	0.2	48000	1.2 × 10 <sup>-8</sup>	25	0.10	2	± 0.2
DCT - 12	0.2	0.4	32000	8.3 × 10 <sup>-8</sup>	35	0.10	2	± 0.3
DCT - 16	0.3	0.6	24000	3.3 × 10 <sup>-7</sup>	47	0.10	2	± 0.4
DCT - 20	0.5	1.0	19000	9.0 × 10 <sup>-7</sup>	120	0.10	2	± 0.4
DCT - 25	1.0	2.0	15000	2.6 × 10 <sup>-6</sup>	170	0.15	2	± 0.5
DCT - 32	2.0	4.0	12000	9.6 × 10 <sup>-6</sup>	280	0.15	2	± 0.5
DCT - 40	5.0	10	9600	3.2 × 10 <sup>-5</sup>	350	0.20	2	± 0.5
DCT - 50	10	20	7700	1.0 × 10 <sup>-4</sup>	590	0.20	2	± 0.5
DCT - 63	20	40	6100	3.2 × 10 <sup>-4</sup>	850	0.20	2	± 0.5
DCTS-12	0.3	0.6	32000	2.1 × 10 <sup>-7</sup>	64	0.10	2	± 0.3
DCTS-16	0.5	1.0	24000	8.4 × 10 <sup>-7</sup>	85	0.10	2	± 0.3
DCTS-20	1.0	2.0	19000	2.4 × 10 <sup>-6</sup>	250	0.10	2	± 0.3
DCTS-25	2.0	4.0	15000	6.8 × 10 <sup>-6</sup>	330	0.15	2	± 0.4
DCTS-32	3.5	7.0	12000	2.6 × 10 <sup>-5</sup>	850	0.15	2	± 0.5
DCTS-40	8.0	16	9600	8.7 × 10 <sup>-5</sup>	1000	0.20	2	± 0.5
DCTS-50	15	30	7700	2.7 × 10 <sup>-4</sup>	1400	0.20	2	± 0.5
DCTS-63	35	70	6100	8.4 × 10 <sup>-4</sup>	1800	0.20	2	± 0.5

# DWS/DWSS 開縫型 / 止付螺絲固定式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	G	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
						Min	Max	
DWS-16	16	6.80	18	3	M3	4	6	7.4
DWS-20	20	7.65	20	3	M4	5	10	12
DWS-25	25	9.60	25	4	M4	6	12	24
DWS-32	32	12.60	32	6	M5	6	14	50
DWS-40	40	15.30	40	7.5	M5	10	16	115
DWSS-16	16	6.80	18	3	M3	5	6	18
DWSS-20	20	7.65	20	3	M4	5	10	32
DWSS-25	25	9.60	25	4	M4	6	12	63
DWSS-32	32	12.60	32	6	M5	6	14	130

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	剛性靜 扭力值 Static Torsional Stiffness (N.m/rad)	容許偏角 Errors of Angularity (°)	容許軸向位差 Errors of Shaft End-Play (mm)
DWS-16	0.3	0.6	24000	$2.8 \times 10^{-7}$	110	1	± 0.2
DWS-20	0.5	1	19000	$7.5 \times 10^{-7}$	130	1	± 0.2
DWS-25	1.0	2	15000	$2.3 \times 10^{-6}$	350	1	± 0.2
DWS-32	2.0	4	12000	$8.0 \times 10^{-6}$	650	1	± 0.2
DWS-40	5.0	10	9800	$3.0 \times 10^{-5}$	750	1	± 0.2
DWSS-16	0.5	1	24000	$7.2 \times 10^{-7}$	240	1	± 0.1
DWSS-20	1.0	2	19000	$2.0 \times 10^{-6}$	330	1	± 0.1
DWSS-25	2.0	4	15000	$6.1 \times 10^{-6}$	720	1	± 0.2
DWSS-32	3.5	7	12000	$2.1 \times 10^{-5}$	1300	1	± 0.2

### 材質/Material:

DWS 系列-鋁合金/Aluminum alloy  
DWSS 系列-不銹鋼/Stainless steel

### 特性/Fratures

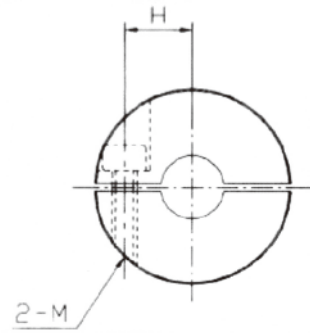
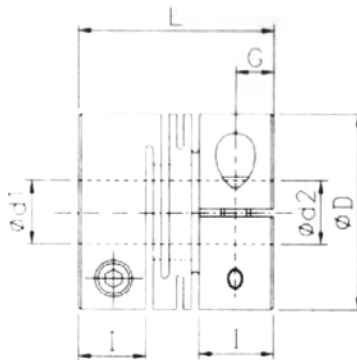
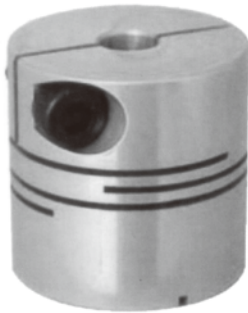
- 1.一體成型、小巧/One-body shape.
- 2.零背隙/Zero backlash.
- 3.剛性大/High rigid.
- 4.偏角誤差較佳/High deflection.
- 5.固定方式：固定螺絲式/Fixed mode: Set screw type.

型號表示/Product No:

**DWS-20 - Ø6XØ6**

型號/Type      孔徑/Inside dia

# DWS-C/DWSS-C 開縫型 / 夾緊式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	l	L	G	H	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
							Min	Max	
DWS-16C	16	6.80	18	3.4	5	M2.5	4	6	8
DWS-20C	20	7.65	20	3.8	6.5	M3	5	8	13
DWS-25C	25	9.00	25	4.8	9	M3	6	10	25
DWS-32C	32	12.60	32	6.3	11	M4	6	14	53
DWS-40C	40	15.30	40	7.5	14	M5	10	16	117
DWSS-16C	16	6.80	18	3.4	5	M2.5	5	6	21
DWSS-20C	20	7.65	20	3.8	6.5	M3	5	8	36
DWSS-25C	25	9.60	25	4.8	9	M3	6	10	69
DWSS-32C	32	12.60	32	6.3	11	M4	8	14	150

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	剛性靜 扭力值 Static Torsional Stiffness (N.m/rad)	容許偏角 Errors of Angularity (°)	容許軸 向位差 Errors of Shaft End-Play (mm)
DWS-16C	0.3	0.6	9500	2.9 × 10 <sup>-7</sup>	110	1	± 0.2
DWS-20C	0.5	1	7600	7.5 × 10 <sup>-7</sup>	130	1	± 0.2
DWS-25C	1.0	2	6100	2.3 × 10 <sup>-6</sup>	350	1	± 0.2
DWS-32C	2.2	4	4800	8.1 × 10 <sup>-6</sup>	650	1	± 0.2
DWS-40C	5.0	10	3800	1.9 × 10 <sup>-5</sup>	750	1	± 0.2
DWSS-16C	0.5	1	9500	7.8 × 10 <sup>-7</sup>	240	1	± 0.2
DWSS-20C	1.0	2	7600	2.1 × 10 <sup>-6</sup>	330	1	± 0.2
DWSS-25C	2.0	4	6100	6.3 × 10 <sup>-6</sup>	720	1	± 0.2
DWSS-32C	3.5	7	4800	2.2 × 10 <sup>-5</sup>	1300	1	± 0.2

### 材質/Material:

DWS 系列-鋁合金/Aluminum alloy

DWSS 系列-不銹鋼/Stainless steel

### 特性/Features

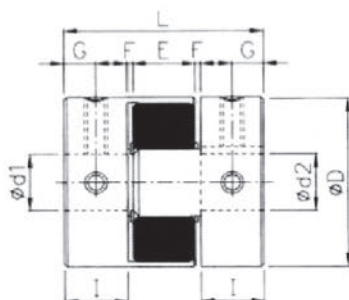
- 1.一體成型、小巧/One-body shape.
- 2.零背隙/Zero backlash.
- 3.剛性大/High rigid.
- 4.偏角誤差較佳/High deflection.
- 5.固定方式：夾緊式/Fixed mode: Set screw type.

型號表示/Product No:

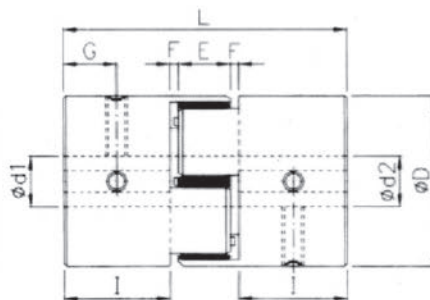
**DWS-20C - Ø6XØ6**

型號/Type      孔徑/Inside dia

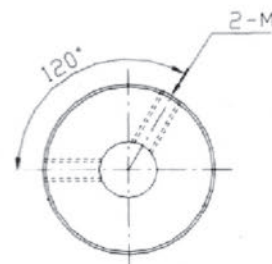
# DRJ 爪型 / 止付螺絲固定式 / 撓性聯軸器



外徑  $\varnothing D20 \sim \varnothing D30$



外徑  $\varnothing D40 \sim \varnothing D65$



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	E	F	G	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
								Min	Max	
DRJ- 20 - RD	20	10.35	30	9.3	0.7	5.0	M3	5	9.525	20
DRJ- 30 - RD	30	11.50	35	12.0	1.0	5.5	M4	6	14	40
DRJ- 40 - RD	40	25.40	66	15.2	1.5	12.5	M5	8	20	150
DRJ- 40S-RD	40	14.00	42	14.0	1.0	7.0	M5	8	19	170
DRJ- 55 - RD	55	30.90	78	16.2	1.2	15.5	M6	10	25	350
DRJ- 65 - RD	65	35.50	90	19.0	2.0	17.5	M6	12	35	500
DRJ- 80 - RD	80	46.00	114	22.0	2.0	23.0	M8	16	45	1000
DRJ- 95 - RD	95	51.10	126	23.8	2.0	25.5	M8	20	55	1500

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg·m <sup>2</sup> )	剛性靜 扭力值 Static Torsional Stiffness (N.m/rad)	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸 向位差 Errors of Shaft End-Play (mm)
DRJ - 20 - RD	5	10	19000	$1.0 \times 10^{-6}$	55	0.10	1	± 0.8
DRJ - 30 - RD	12.5	25	13000	$5.9 \times 10^{-6}$	135	0.10	1	± 1.0
DRJ - 40 - RD	17	34	9600	$4.0 \times 10^{-5}$	1100	0.10	1	± 1.2
DRJ - 40S - RD	17	34	14000	$3.9 \times 10^{-5}$	1200	0.10	1	± 0.6
DRJ - 55 - RD	60	120	7000	$1.7 \times 10^{-4}$	3200	0.10	1	± 1.4
DRJ - 65 - RD	160	320	5900	$3.9 \times 10^{-4}$	4900	0.10	1	± 1.5
DRJ - 80 - RD	325	650	4800	$1.12 \times 10^{-3}$	7400	0.10	1	± 1.8
DRJ - 95 - RD	450	900	3600	$2.0 \times 10^{-3}$	14000	0.10	1	± 2.0

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

1. 高扭力/Features.
2. 高剛性/High torque.
3. 抗震佳/High vibration resistance.
4. 適合用於一般傳動及切削性/Applicable for the ordinary transferring and cutting demand.
5. 緩衝材: 工程塑膠/Buffer Material: Engineering class plastic.
6. 固定方式: 止付螺絲固定式/Fixed mode: Set screw type.

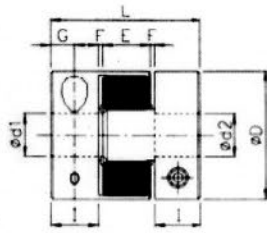
型號表示/Product No:

**DRJ-20-RD - Ø6XØ6**

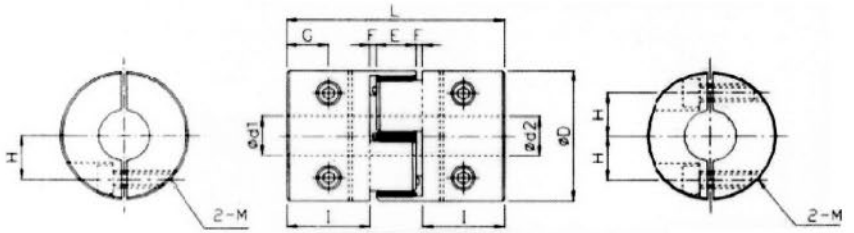
型號/Type

孔徑/Inside dia

# DRJ-C 爪型 / 夾緊式 / 撓性聯軸器



外徑 D20~D30



外徑 D40~D65

## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	E	F	G	H	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
									Min	Max	
DRJ - 20C - RD	20	10.35	30	9.3	0.7	5.0	6.5	M2.5	5	9.525	20
DRJ - 30C - RD	30	11.50	35	12.0	1.0	5.5	10.5	M4	6	14	40
DRJ - 40C - RD	40	25.40	66	15.2	1.5	9.0	14.0	M5	8	20	150
DRJ - 55C - RD	55	30.90	78	16.2	1.2	10.5	20.0	M6	10	25	350
DRJ - 65C - RD	65	35.50	90	19.0	2.0	13.0	25.0	M6	12	35	500
DRJ - 80C - RD	80	46.00	114	22.0	2.0	14.0	30.5	M10	16	45	1000
DRJ - 95C - RD	95	51.10	126	23.8	2.0	16.0	37.0	M10	20	55	1500

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	剛性靜 扭力值 Static Torsional Stiffness (N.m/rad)	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸 向位差 Errors of Shaft End-Play (mm)
DRJ-20C-RD	5	10	19000	1.1 × 10 <sup>-6</sup>	55	0.10	1	± 0.8
DRJ-30C-RD	12.5	25	13000	6.2 × 10 <sup>-6</sup>	135	0.10	1	± 1.0
DRJ-40C-RD	17	34	9600	3.9 × 10 <sup>-5</sup>	1100	0.10	1	± 1.2
DRJ-55C-RD	60	120	7000	1.6 × 10 <sup>-4</sup>	3200	0.10	1	± 1.4
DRJ-65C-RD	160	320	5900	3.8 × 10 <sup>-4</sup>	4900	0.10	1	± 1.5
DRJ-80C-RD	325	650	4800	1.1 × 10 <sup>-3</sup>	7400	0.10	1	± 1.8
DRJ-95C-RD	450	900	3600	1.9 × 10 <sup>-3</sup>	14000	0.10	1	± 2.0

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

1. 高扭力/High torque.
2. 高剛性/High rigid.
3. 抗震佳/High vibration resistance.
4. 適合用於一般傳動及切削性/Applicable for the ordinary transferring and cutting demand.
5. 緩衝材: 工程塑膠/Buffer Material: Engineering class plastic.
6. 固定方式: 夾緊式/Fixed mode: Set screw type.

型號表示/Product No:

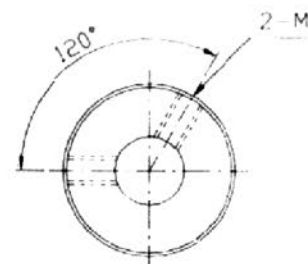
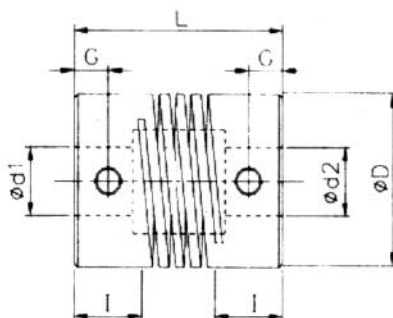
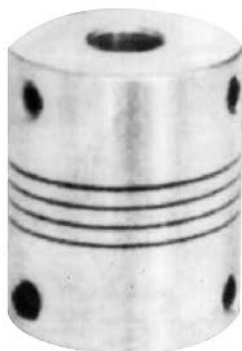
**DRJ-20C-RD - Ø6XØ6**

型號/Type

孔徑/Inside dia



# DMT 螺旋型 / 止付螺絲固定式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	G	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
						Min	Max	
DMT - 16	16	7.6	23	3.5	M3	4	8	10
DMT - 16S	16	4.3	16	2.5	M3	4	8	8
DMT - 19	19	7.0	23	3.0	M3	5	8	13
DMT - 19S	19	5.0	19	3.0	M3	5	8	11
DMT - 20	20	8.6	26	3.0	M4	6	10	15
DMT - 25	25	10.6	31	4.0	M4	6	12	31
DMT - 25S	25	7.5	25	4.0	M4	6	12	29

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸 向位差 Errors of Shaft End-Play (mm)
DMT - 16	0.5	1.0	25000	0.25	5	± 0.25
DMT - 16S	0.5	1.0	25000	0.25	5	± 0.25
DMT - 19	1.0	2.0	25000	0.25	5	± 0.25
DMT - 19S	1.0	2.0	25000	0.25	5	± 0.25
DMT - 20	1.1	2.2	25000	0.25	5	± 0.25
DMT - 25	1.6	3.2	25000	0.25	5	± 0.25
DMT - 25S	1.6	3.2	25000	0.25	5	± 0.25

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

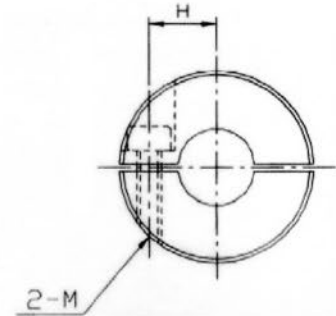
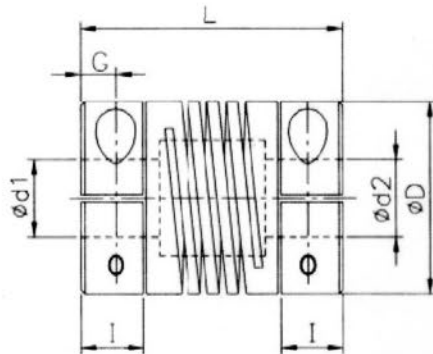
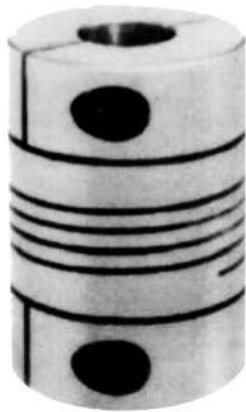
- 1.一體成型/One-body shape.
- 2.零背隙/Zero backlash.
- 3.螺旋式溝槽，可撓性特佳/The grooves are shaped spirally with its excellent flexibility.
- 4.最適合ENCODER/It fits to ENCODER.
- 5.固定方式：止付螺絲固定式/Fixed mode: Set screw type.

型號表示/Product No:

**DMT-20 - Ø6XØ6**

型號/Type 孔徑/Inside dia

# DMT-C 螺旋型 / 夾緊式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	G	H	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
							Min	Max	
							DMT-16C	16	
DMT-19C	19	6.5	23	3.0	5.6	M3	4	8	13
DMT-20C	20	7.5	26	3.0	5.7	M3	6	8	13
DMT-25C	25	8.0	31	4.0	7.5	M3	6	12	31

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸向位差 Errors of Shaft End-Play (mm)
DMT-16C	0.5	1.0	25000	0.25	5	± 0.25
DMT-19C	1.0	2.0	25000	0.25	5	± 0.25
DMT-20C	1.0	2.0	25000	0.25	5	± 0.25
DMT-25C	1.6	3.2	25000	0.25	5	± 0.25

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

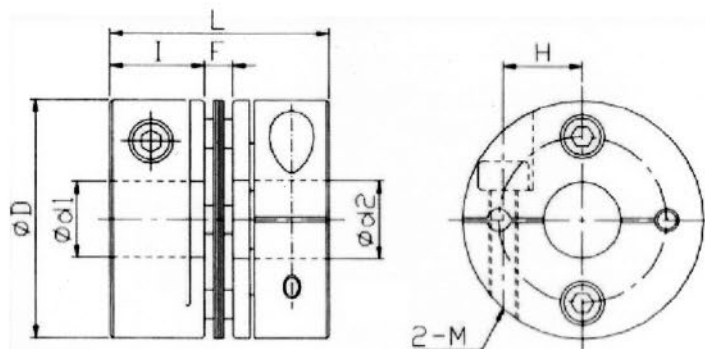
- 一體成型/One-body shape.
- 零背隙/Zero backlash.
- 螺旋式溝槽，可撓性特佳/The grooves are shaped spirally with its excellent flexibility.
- 最適合ENCODER/It fits to ENCODER.
- 固定方式：夾緊式/Fixed mode: Set screw type.

型號表示/Product No:

**DMT-20 - Ø6XØ6**

型號/Type    孔徑/Inside dia

# DGS-C 鋼片 / 短型 / 夾緊式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	F	L	H	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
							Min	Max	
DGS-20C	20	9.2	1.70	20.10	5.8	M2.5	4	8	15
DGS-27C	27	11	2.45	24.45	9.6	M3	5	10	25
DGS-35C	35	12	3.00	27.00	12.5	M3	6	14	48
DGS-40C	40	15	3.95	33.95	14.0	M4	8	16	90
DGS-45C	45	15	3.95	33.95	16.5	M4	10	19	98
DGS-50C	50	20	4.70	44.70	17.5	M5	11	22	15
DGS-56C	56	20	5.20	45.20	20.8	M5	12	25	238
DGS-68C	68	24	5.25	53.25	26.0	M6	14	28	470
DGS-82C	82	29.8	8.80	68.40	31.0	M8	19	35	1050
DGS-94C	94	30	9.40	69.40	37.0	M8	22	42	1230
DGS-105C	105	30	10.0	70.00	42.0	M8	25	45	1370

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg·m <sup>2</sup> )	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸 向位差 Errors of Shaft End-Play (mm)
DGS-20C	0.8	1.6	10000	0.58 × 10 <sup>-6</sup>	0.10	1	± 0.10
DGS-27C	1.8	3.6	10000	2.47 × 10 <sup>-6</sup>	0.02	1	± 0.15
DGS-35C	4	8	10000	8.16 × 10 <sup>-6</sup>	0.02	1	± 0.20
DGS-40C	6	14	10000	18.5 × 10 <sup>-6</sup>	0.02	1	± 0.25
DGS-45C	10	20	10000	29.7 × 10 <sup>-6</sup>	0.02	1	± 0.30
DGS-50C	16	32	10000	75.0 × 10 <sup>-6</sup>	0.02	1	± 0.35
DGS-56C	25	50	10000	100.0 × 10 <sup>-6</sup>	0.02	1	± 0.40
DGS-68C	60	120	10000	267.7 × 10 <sup>-6</sup>	0.02	1	± 0.50
DGS-82C	100	200	10000	736.5 × 10 <sup>-6</sup>	0.02	1	± 0.55
DGS-94C	180	360	10000	1220 × 10 <sup>-6</sup>	0.02	1	± 0.60
DGS-105C	250	450	10000	1890 × 10 <sup>-6</sup>	0.02	1	± 0.74

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

1. 高剛性/High rigid.
2. 扭力大/High torque.
3. 低慣性/Low inertia.
4. 零背隙/Zero backlash.
5. 適合用於伺服馬達/It fits of servomotor.
6. 緩衝材: 不銹鋼彈片/Buffer Material: SUS disk.
7. 固定方式: 夾緊式/Fixed mode: Clamp type.

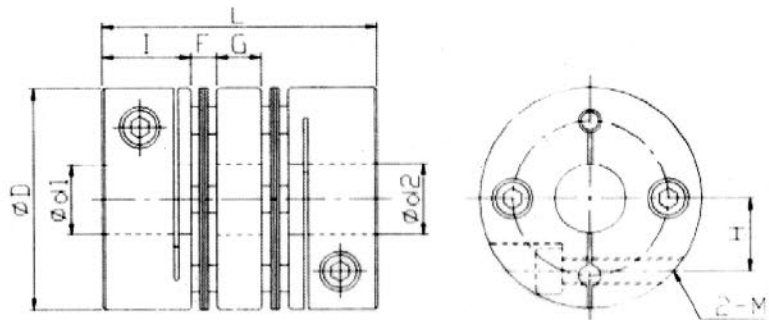
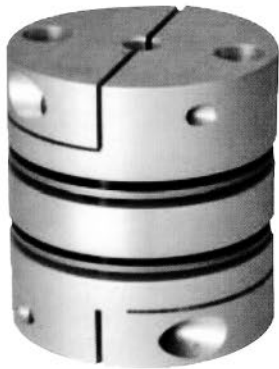
### 型號表示/Product No:

**DGS-40C - Ø8XØ8**

型號/Type

孔徑/Inside dia

# DGL-C 鋼片 / 夾緊式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	F	G	L	H	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
								Min	Max	
DGL - 20C	20	9.2	1.70	5.5	27.3	5.8	M2.5	4	8	15
DGL - 27C	27	11	2.45	8.0	34.9	9.6	M3	5	10	35
DGL - 35C	35	12	3.00	8.0	38.0	12.5	M3	6	14	62
DGL - 40C	40	15	3.95	10.0	47.9	14.0	M4	8	16	116
DGL - 45C	45	15	3.95	10.0	47.9	16.5	M4	10	19	131
DGL - 50C	50	20	4.70	12.0	61.4	17.5	M5	11	22	150
DGL - 56C	56	20	5.20	12.0	62.4	20.8	M5	12	25	310
DGL - 68C	68	24	5.25	15.5	74.0	26.0	M6	14	28	650
DGL - 82C	82	29.8	8.80	21.5	98.7	31.0	M8	19	35	1300
DGL - 94C	94	30	9.40	22.0	100.8	37.0	M8	22	42	1500
DGL - 105C	105	30	10.0	70.0	102.0	42.0	M8	25	45	1740

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)	容許軸向位差 Errors of Shaft End-Play (mm)
DGL-20C	0.8	1.6	10000	0.58 × 10 <sup>-6</sup>	0.10	2	± 0.10
DGL-27C	1.8	3.6	10000	3.41 × 10 <sup>-6</sup>	0.15	2	± 0.33
DGL-35C	4	8	10000	11.3 × 10 <sup>-6</sup>	0.17	2	± 0.40
DGL-40C	6	14	10000	26.3 × 10 <sup>-6</sup>	0.23	2	± 0.50
DGL-45C	10	20	10000	41.7 × 10 <sup>-6</sup>	0.23	2	± 0.60
DGL-50C	16	32	10000	75.0 × 10 <sup>-6</sup>	0.02	2	± 0.35
DGL-56C	25	50	10000	136.1 × 10 <sup>-6</sup>	0.27	2	± 0.80
DGL-68C	60	120	10000	366.9 × 10 <sup>-6</sup>	0.31	2	± 0.90
DGL-82C	100	200	10000	1070 × 10 <sup>-6</sup>	0.52	2	± 1.10
DGL-94C	180	360	10000	1750 × 10 <sup>-6</sup>	0.52	2	± 1.30
DGL-105C	250	450	10000	2750 × 10 <sup>-6</sup>	0.55	2	± 1.48

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

1. 高剛性/High rigid.
2. 扭力大/High torque.
3. 低慣性/Low inertia.
4. 零背隙/Zero backlash.
5. 適合用於伺服馬達/It fits of servomotor.
6. 緩衝材: 不銹鋼彈片/Buffer Material: SUS disk.
7. 固定方式: 夾緊式/Fixed mode: Clamp type.

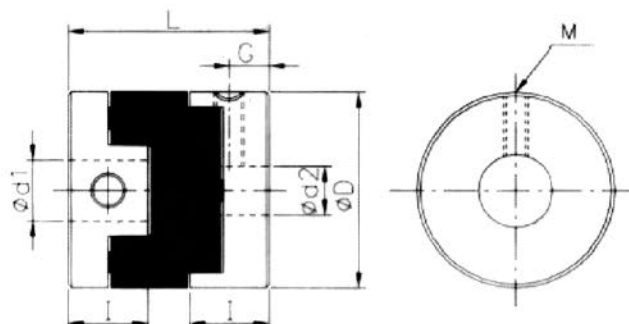
型號表示/Product No:

**DGL-40C - Ø8XØ8**

型號/Type

孔徑/Inside dia

# DOT 十字滑重型 / 止付螺絲固定式 / 撓性聯軸器



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	G	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
						Min	Max	
DOT - 16	16	7	18	3.5	M3	4	6.35	7
DOT - 20	20	9.5	23	4.5	M4	5	8	14
DOT - 25	25	11.5	28	5.5	M5	5	10	27
DOT - 32	32	14.0	33	6.5	M5	8	14	50
DOT - 40	40	15.0	35	7.0	M5	10	16	80
DOT - 50	50	16.5	38	8.5	M6	14	20	150
DOT - 63	63	21.0	47	10.5	M6	15	25	300

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	剛性靜扭力值 Static Tortional Stiffness (N.m/rad)	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)
DOT - 16	0.7	1.4	3500	3.2 × 10 <sup>-7</sup>	31	1.0	3
DOT - 20	1.2	2.4	7600	1.0 × 10 <sup>-6</sup>	60	1.5	3
DOT - 25	2.0	4.0	6100	3.0 × 10 <sup>-6</sup>	140	2.0	3
DOT - 32	4.5	9.0	4800	9.5 × 10 <sup>-6</sup>	280	2.5	3
DOT - 40	9.0	18	3800	2.3 × 10 <sup>-5</sup>	540	3.0	3
DOT - 50	18	36	3100	6.7 × 10 <sup>-5</sup>	820	3.5	3
DOT - 63	36	72	2400	2.2 × 10 <sup>-4</sup>	1900	4.0	3

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

1. 高剛性/High rigid.
2. 絕緣性佳/High insulation.
3. 組合容易/Handy assembly.
4. 耐油性/Excellent resistance to oil.
5. 容許偏心、偏角大/High eccentricity and angularity.
6. 緩衝材: 工程塑膠/Buffer Material: Engineering class plastic.
7. 固定方式: 止付螺絲固定式/Fixed mode: Set screw type.

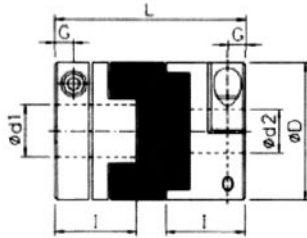
型號表示/Product No:

**DOT - 40 - Ø8XØ8**

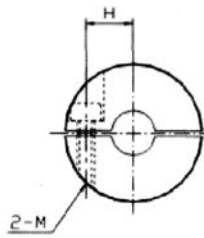
型號/Type

孔徑/Inside dia

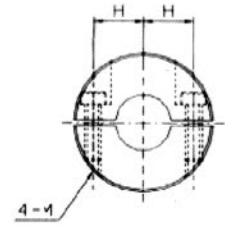
# DOT-C 十字滑重型 / 夾緊式 / 撓性聯軸器



外徑  $\varnothing D16 \sim \varnothing D32$



外徑  $\varnothing D40 \sim \varnothing D63$



## ◆ 尺寸 / Dimension

單位/Unit: mm

型號 Catalog Number	D	I	L	G	H	M	d1 × d2 標準孔徑 公差 (H8)		質量 Mass** (g)
							Min	Max	
DOT - 16C	16	13.0	29	3.0	5.0	M2.5	4	6.35	12
DOT - 20C	20	15.0	33	3.0	6.5	M3	5	8	19
DOT - 25C	25	17.0	39	3.5	8.0	M3	6	10	36
DOT - 32C	32	20.0	45	5.0	10.5	M4	6	14	69
DOT - 40C	40	22.5	50	5.5	13.5	M5	8	16	130
DOT - 50C	50	26.5	58	6.5	17.5	M6	12	20	230
DOT - 63C	63	33.0	71	8.0	22.0	M8	15	25	450

## ◆ 性能 / Function

型號 Catalog Number	一般扭力 Rated Torque (N.m)	最大扭力 Max. Torque (N.m)	最高回轉數 Max. Rotational Frequency (min <sup>-1</sup> )	慣性 Moment* of Inertia (kg · m <sup>2</sup> )	剛性靜 扭力值 Static Tortional Stiffness (N.m/rad)	容許偏心 Errors of Eccentricity (mm)	容許偏角 Errors of Angularity (°)
DOT-16C	0.7	1.4	9500	$5.8 \times 10^{-7}$	31	1.0	3
DOT-20C	1.2	2.4	7600	$1.5 \times 10^{-6}$	60	1.5	3
DOT-25C	2.0	4.0	6100	$4.4 \times 10^{-6}$	140	2.0	3
DOT-32C	4.5	9.0	4800	$1.4 \times 10^{-5}$	280	2.5	3
DOT-40C	9.0	18	3800	$4.1 \times 10^{-5}$	540	3.0	3
DOT-50C	18	36	3100	$1.2 \times 10^{-5}$	820	3.5	3
DOT-63C	36	72	2400	$3.7 \times 10^{-4}$	1900	4.0	3

### 材質/Material:

鋁合金/Aluminum alloy

### 特性/Features

1. 高剛性/High rigid.
2. 絕緣性佳/High insulation.
3. 組合容易/Handy assembly.
4. 耐油性/Excellent resistance to oil.
5. 容許偏心、偏角大/High eccentricity and angularity.
6. 緩衝材: 工程塑膠/Buffer Material: Engineering class plastic.
7. 固定方式: 夾緊式/Fixed mode: Set screw type.

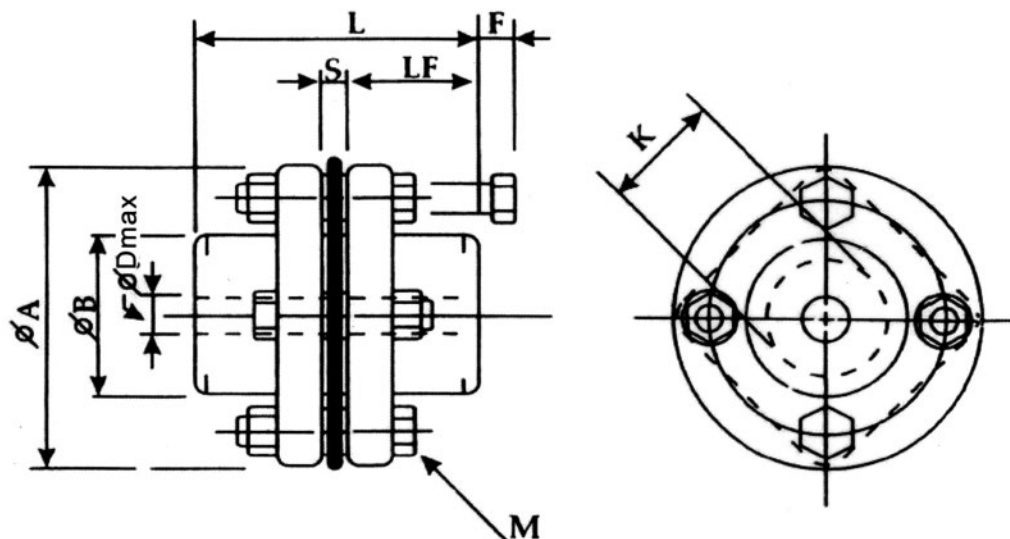
型號表示/Product No:

**DOT-40C - Ø8XØ8**

型號/Type      孔徑/Inside dia

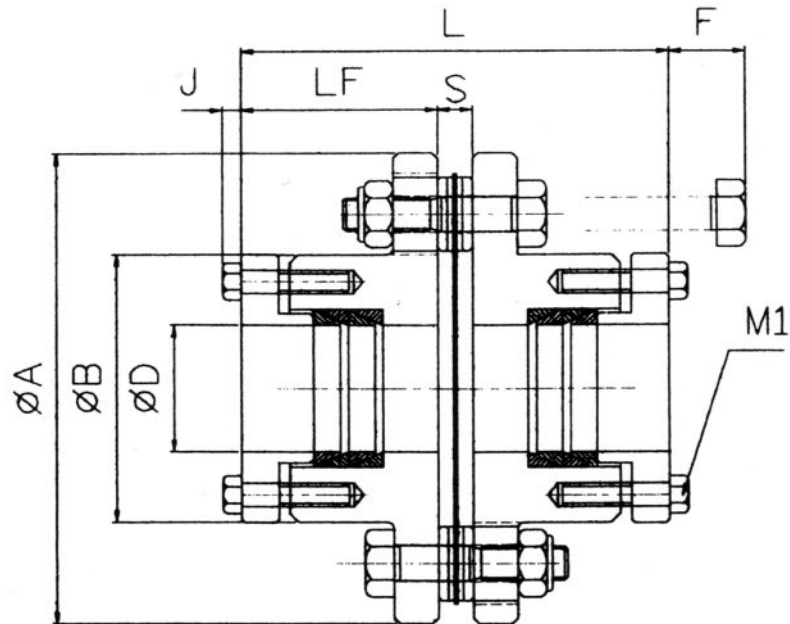
# 鋼片式聯軸器 寸法圖及規格

## A 型：一般型



型號	A	B	L	LF	S	M	標準孔徑	
							Min	Max
CP - 56A	56	32	44.90	20.0	4.90	M5	7	20
CP - 68A	68	38	55.25	25.0	5.25	M6	10	25
CP - 82A	82	52	58.80	25.0	8.80	M6	12	35
CP - 94A	94	56	69.40	30.0	9.40	M8	12	40
CP - 105A	105	66	76.00	33.0	10.00	M8	12	42
CP - 128A	128	78	91.00	40.0	11.00	M10	25	50
CP - 144A	144	90	101.60	45.0	11.60	M10	30	55
CP - 168A	168	105	131.20	57.2	16.80	M14	35	70
CP - 194A	194	118	144.00	64.5	15.00	M16	40	80
CP - 214A	214	137	174.00	76.2	21.60	M16	45	95
CP - 246A	246	156	201.70	88.9	23.90	M20	50	110
CP - 276A	276	169	230.40	101.6	27.20	M24	70	120

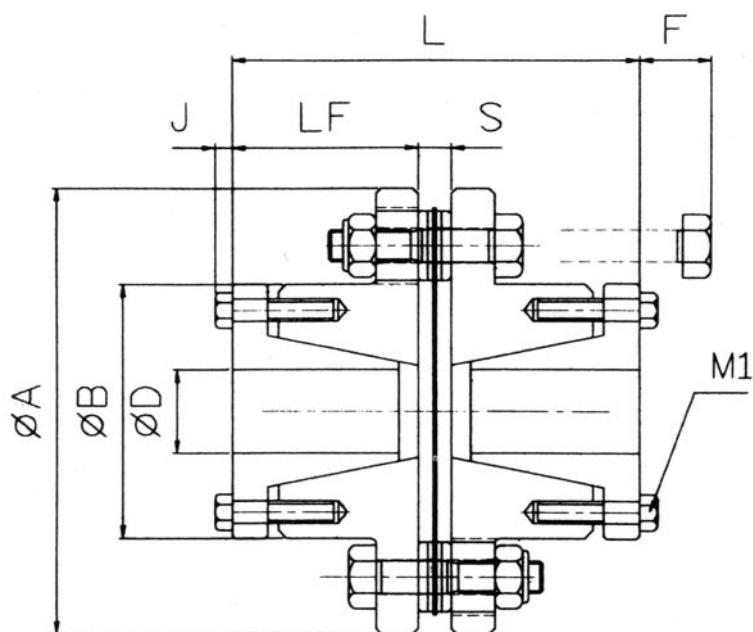
B 型：用軸環聯結



型式	D (最大)	A	B	L	LF	S	F	J	M1
DP-81B	25	81	46	72.5	33	6.5	10	5	4-M6
DP-93B	28	93	51	82.5	36	10.5	16	5	4-M6
DP-104B	35	104	61	91	40	11	16	6	4-M6
DP-126B	40	126	71	117	52	13	20	7	4-M8
DP-144B	50	144	88	131	59	13	22	7	4-M8
DP-168B	65	168	106	146	66	14	24	9	4-M10
DP-194B	80	194	130	164	75	14	24	9	4-M10
DP-214B	80	214	137	197	87	23	22	10	4-M12
DP-246B	90	246	157	224	100	24	23	10	4-M12
DP-276B	100	276	170	252	112	28	34	10	4-M12



### C 型：用軸套聯結



型式	D (最大)	A	B	L	LF	S	F	J	M1
DP-81C	25	81	46	78.5	36	6.5	10	5	4-M6
DP-93C	30	93	51	88.5	39	10.5	16	5	4-M6
DP-104C	35	104	61	95	42	11	20	6	4-M6
DP-126C	40	126	71	121	54	13	20	7	4-M8
DP-144C	50	144	88	133	60	13	22	7	4-M8
DP-168C	65	168	106	152	69	14	24	9	4-M10
DP-194C	80	194	130	170	78	14	24	9	4-M10
DP-214C	80	214	137	199	88	23	22	10	4-M12
DP-246C	90	246	157	226	101	24	23	10	4-M12
DP-276C	100	276	170	254	113	28	34	10	4-M12



## 9. 免鍵式軸環

## 免鍵式軸環

### 免鍵式軸環介紹

#### 一、什麼是免鍵式軸環？

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。

#### 二、什麼樣場合適合使用免鍵式軸環？

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。

#### 三、有什麼樣使用上的注意事項？

1. 所需傳動扭力的確認
2. 軸與孔的加工精度
3. 同心度的要求
4. 是否有防銹的需求

以上為一般注意事項，若有特別需求，請與本公司連絡。

## Power Locker

### Introduction for Power Locker

#### 1. What is Power Locker ?

Power locker is designed for mechanical fastensing with a conical structure, and superseds the conventional structure with a key and keyway. Its advantages are easy-to-assemble, easy-to-disassemble, time-saving. no key required highly aligment(automatic aligment adjustment), backlash free, rotational precision...etc.

#### 2. What can the Power Locker be applicable of ?

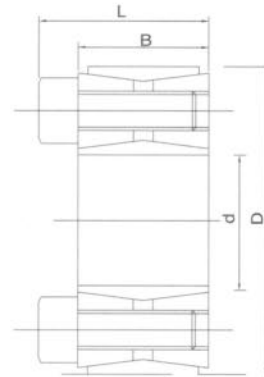
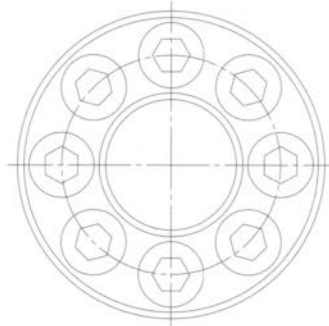
As the precision of mechanism have increased continuously in the present day, the Power Locker is applicable on condition that the connection with a key and a keyway, in particular, for highly precise servo transmission system, like workstation, precise electronic application, high automation, textile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

#### 1. The notes for using Power Locker ?

- a. The required transmissible torque
- b. The requirement of machining precision on shaft and bore.
- c. The requirement of alignment.
- d. The requirement rust resistance.

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

# SA 免鍵式軸環



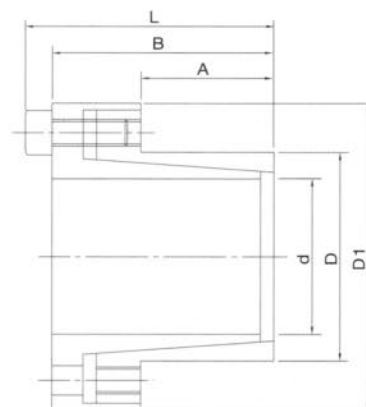
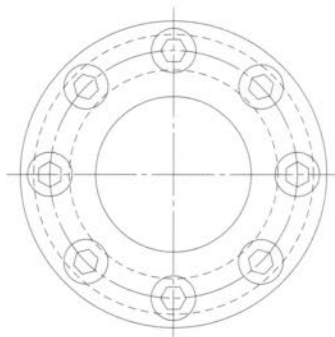
SA 非自動校心型 None self-centering

M: 公制螺絲      TS: 螺絲旋緊扭矩  
 T, F: 在 TS 下之傳達扭矩及軸向推力  
 P: 輪轂面壓力

## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	B (mm)	L (mm)	M (mm)	TS (N.m)	T (N.m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SA-20	20	47	20	26	M6	14	270	27	90	230
SA-22	22	47	20	26	M6	14	300	27	90	220
SA-24	24	50	20	26	M6	14	360	30	95	240
SA-25	25	50	20	26	M6	14	380	30	95	240
SA-28	28	55	20	26	M6	14	470	34	100	280
SA-30	30	55	20	26	M6	14	500	34	100	270
SA-32	32	60	20	26	M6	14	650	41	110	320
SA-35	35	60	20	26	M6	14	700	41	110	300
SA-38	38	65	20	26	M6	14	880	45	110	350
SA-40	40	65	20	26	M6	14	950	47	110	330
SA-42	42	75	24	32	M8	35	1,600	75	130	580
SA-45	45	75	24	32	M8	35	1,700	75	30	550
SA-48	48	80	24	32	M8	35	1,800	75	120	620
SA-50	50	80	24	32	M8	35	1,900	75	120	590
SA-55	55	85	24	32	M8	35	2,300	85	130	640
SA-60	60	90	24	32	M8	35	2,500	85	120	680
SA-65	65	95	24	32	M8	35	3,000	95	130	730
SA-70	70	110	28	38	M10	69	4,800	130	130	1300
SA-75	75	115	28	38	M10	69	5,000	130	130	1350
SA-80	80	120	28	38	M10	69	5,300	130	130	1420
SA-85	85	125	28	38	M10	69	6,400	150	140	1500
SA-90	90	130	28	38	M10	69	6,500	160	140	1560
SA-95	95	135	28	38	M12	69	8,000	170	140	1630
SA-100	100	145	30	38	M12	120	9,700	190	140	2230
SA-110	110	155	30	42	M12	120	10,600	200	130	2370
SA-120	120	165	30	42	M12	120	13,000	210	130	2600
SA-130	130	180	38	42	M12	120	18,000	270	120	3600
SA-140	140	190	38	50	M12	120	21,000	300	120	3750
SA-150	150	200	38	50	M12	120	24,000	320	120	4100
SA-160	160	210	38	50	M12	120	28000	350	130	4300
SA-170	170	225	44	58	M14	190	33,000	380	120	5700
SA-180	180	235	44	58	M14	190	38,000	420	120	6000
SA-190	190	250	52	66	M14	190	46,000	480	110	8200
SA-200	200	260	52	66	M14	190	53,000	530	120	8500
SA-220	220	285	56	72	M16	295	68,000	620	120	11220
SA-210	210	305	56	72	M16	295	86,000	710	130	12200
SA-260	260	325	56	72	M16	295	105,000	810	135	13500

# SB 免鍵式軸環



SB 自動校心型 Self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩

T, F: 在TS下之傳達扭矩及軸向推力

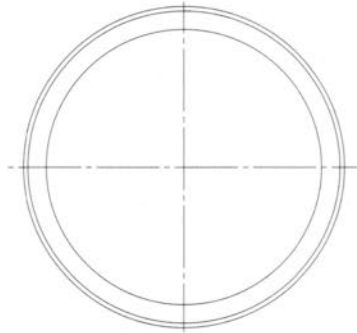
P: 輪轂面壓力

單位 Unit / mm

## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	D1 (mm)	A (mm)	B (mm)	L (mm)	M (mm)	TS (N·m)	T (N·m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SB-06	06	14	25	9	21	24	M3	2	14	4.8	86	80
SB-08	08	15	27	12	25	29	M4	5	29	10	185	100
SB-09	09	16	28	14	26	30	M4	5	44	10	185	120
SB-10	10	16	28	14	26	30	M4	5	49	10	185	120
SB-11	11	18	32	14	26	30	M4	5	53	10	160	140
SB-12	12	18	32	14	26	30	M4	5	58	10	140	140
SB-13	13	23	38	14	26	30	M4	5	63	10	130	140
SB-14	14	23	38	14	26	30	M4	5	68	10	15	150
SB-15	15	24	45	16	36	42	M6	17	127	17	175	260
SB-16	16	24	45	16	36	42	M6	17	136	17	190	250
SB-17	17	26	47	18	38	44	M6	17	180	22	160	270
SB-18	18	26	47	18	38	44	M6	17	200	22	160	270
SB-19	19	27	49	18	38	44	M6	17	220	22	170	300
SB-20	20	28	49	18	38	44	M6	17	220	22	120	300
SB-22	22	32	54	25	45	51	M6	17	250	22	120	380
SB-24	24	34	56	25	45	51	M6	17	270	22	120	400
SB-25	25	34	56	25	45	51	M6	17	280	22	150	390
SB-28	28	39	61	25	45	51	M6	17	500	35	150	470
SB-30	30	41	62	25	45	51	M6	17	530	35	150	480
SB-32	32	43	65	30	50	56	M6	17	750	45	140	520
SB-35	35	47	69	30	50	56	M6	41	850	48	140	630
SB-38	38	50	72	30	50	56	M6	41	930	48	130	670
SB-40	40	53	75	30	50	56	M6	41	980	48	130	740
SB-42	42	55	78	40	65	73	M8	41	1,000	48	130	780
SB-45	45	59	85	40	65	73	M8	41	1,900	84	130	1,230
SB-48	48	62	87	45	70	78	M8	41	2,000	84	140	1,240
SB-50	50	65	92	45	70	78	M8	41	2,700	110	130	1,400
SB-55	55	71	98	50	75	83	M8	41	3,000	110	130	1,700
SB-60	60	77	104	50	75	83	M8	41	3,300	110	130	1,900
SB-65	65	84	111	50	75	83	M8	41	3,600	110	130	2,200
SB-70	70	90	119	60	91	101	M10	83	6,200	180	130	3,050
SB-75	75	95	126	60	91	101	M10	83	6,600	180	130	3,320
SB-80	80	100	131	70	101	111	M10	83	8,700	220	130	3,500
SB-85	85	106	137	70	101	111	M10	83	9,800	220	130	3,810
SB-90	90	112	143	70	101	111	M10	83	12,000	240	130	4,200
SB-95	95	120	153	70	101	111	M10	83	12,000	250	130	4,750
SB-100	100	125	162	80	117	129	M10	145	15,000	240	130	4,880

# SC 免鍵式軸環



SC 非自動校心型 None self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩

T, F: 在TS下之傳達扭矩及軸向推力

P: 輪轂面壓力

## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	B (mm)	L (mm)	N				T (N·m)	F (KN)	FA (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
					1	2	3	4					
SC-06	06	14	3.7	4.5	2.5	2.5	3	4	2	0.8	12	115	1.1
SC-08	08	11	3.7	4.5	2.5	2.5	3	4	5	1.2	18	120	1.5
SC-10	10	13	3.7	4.5	2.5	2.5	3	4	10	2	22	120	1.9
SC-11	11	14	3.7	4.5	2.5	2.5	3	4	10	2	22	120	2.0
SC-12	12	15	3.7	4.5	2.5	2.5	3	4	11	2	23	115	2.2
SC-13	13	16	3.7	4.5	2.5	2.5	3	4	13	2	24	110	2.3
SC-14	14	18	5.3	6.3	3	4	4	5	22	3	26	90	4.9
SC-15	15	19	5.3	6.3	3	4	4	5	25	3	27	90	5.3
SC-16	16	20	5.3	6.3	3	4	4	5	27	3	27	90	5.5
SC-17	17	21	5.3	6.3	3	4	4	5	30	3	28	90	6.0
SC-18	18	22	5.3	6.3	3	4	4	5	32	3	30	90	6.2
SC-19	19	24	5.3	6.3	3	4	4	5	40	4	33	90	8.0
SC-20	20	25	5.3	6.3	3	4	4	5	44	4	34	90	8.3
SC-22	22	26	5.3	6.3	3	4	4	5	58	4	35	90	8.0
SC-24	24	28	5.3	6.3	3	4	4	5	68	6	37	100	8.0
SC-25	25	30	5.3	6.3	3	4	4	5	48	6	40	100	10.0
SC-28	28	32	5.3	6.3	3	4	4	5	90	6	40	100	9.2
SC-30	30	35	5.3	6.3	3	4	4	5	100	7	40	100	12
SC-32	32	36	5.3	6.3	3	4	4	5	120	7	50	100	10
SC-35	35	40	6	7	3	4	4	5	160	9	40	100	17
SC-38	38	44	6	7	4	5	5	6	230	10	60	100	20
SC-40	40	45	6	8	4	5	5	6	230	11	70	100	23
SC-42	42	48	6	8	4	5	5	6	260	12	70	100	28
SC-45	45	52	8.6	10	4	5	5	6	390	17	110	100	42
SC-48	48	55	8.6	10	4	5	5	6	430	18	110	100	45
SC-50	50	57	8.6	10	4	5	5	6	470	19	110	110	46
SC-55	55	62	10.4	10	4	5	5	6	580	21	120	10	50
SC-56	56	64	10.4	12	4	5	6	6	790	25	150	110	67
SC-60	60	68	10.4	12	4	5	6	7	840	28	160	110	70
SC-65	65	73	10.4	12	4	5	6	7	1,000	30	160	100	77
SC-70	70	79	12.2	14	4	5	6	7	1,300	38	200	100	102
SC-75	75	84	12.2	14	4	5	6	7	1,500	41	220	100	110
SC-80	80	91	15	17	5	6	7	8	2,100	54	300	100	175
SC-90	90	101	15	17	5	6	7	8	2,700	61	320	100	210
SC-100	100	114	18.7	21	5	6	8	9	4,200	84	400	100	360

# SD 免鍵式軸環

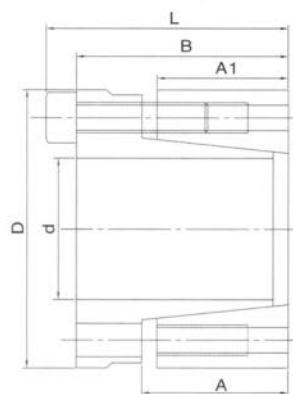
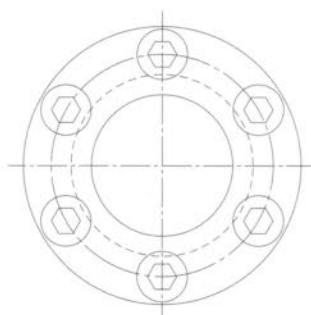


SD 自動校心型 Self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩

T, F: 在TS下之傳達扭矩及軸向推力

P: 輪轂面壓力



單位 Unit / mm

## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	A (mm)	A1 (mm)	B (mm)	L (mm)	M (mm)	TS (N·m)	T (N·m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SD-20	20	47	31	26	42	48	M6	17	550	55	100	370
SD-22	22	47	31	26	42	48	M6	17	600	55	100	370
SD-24	24	50	31	26	42	48	M6	17	660	55	100	400
SD-25	25	50	31	26	42	48	M6	17	680	55	100	400
SD-28	28	55	31	26	42	48	M6	17	720	55	100	440
SD-30	30	55	31	26	42	48	M6	17	820	55	100	530
SD-32	32	60	31	26	42	48	M6	17	1,400	80	130	520
SD-35	35	60	31	26	42	48	M6	17	1,400	80	130	500
SD-38	38	65	31	26	42	48	M6	17	1,600	80	130	600
SD-40	40	65	31	26	42	48	M6	17	1,600	110	130	580
SD-42	42	75	36	30	50	58	M8	41	2,500	110	130	1,000
SD-45	45	75	36	30	50	58	M8	41	2,500	150	130	970
SD-48	48	80	36	30	50	58	M8	41	3,700	150	170	1,080
SD-50	50	80	36	30	50	58	M8	41	3,700	150	17	1,050
SD-55	55	85	36	30	50	58	M8	41	4,100	150	160	1,140
SD-60	60	90	36	30	50	58	M8	41	4,500	160	160	1,180
SD-65	65	95	36	30	50	58	M8	41	4,500	160	150	1,260
SD-70	70	110	46	39	60	70	M10	83	8,400	240	150	2,250
SD-75	75	115	46	39	60	70	M10	83	8,400	240	140	2,430
SD-80	80	120	46	39	60	70	M10	83	9,600	250	140	2,600
SD-85	85	125	46	39	60	70	M10	83	11,000	250	150	2,700
SD-90	90	130	46	39	60	70	M10	83	13,000	300	150	2,800
SD-95	95	135	46	39	60	70	M10	83	13,000	300	150	3,000
SD-100	100	145	52	46	68	80	M12	145	17,500	350	150	4,100
SD-110	110	155	52	46	68	80	M12	145	20,000	300	150	4,400
SD-120	120	165	52	46	68	80	M12	145	21,300	330	150	4,800
SD-130	130	180	52	46	68	80	M12	145	28,000	350	150	5,700
SD-140	140	190	58.5	51	76	90	M14	190	30,400	350	150	6,200
SD-150	150	200	58.5	51	76	90	M14	190	39,000	400	160	7,100
SD-160	160	210	58.5	51	76	90	M14	190	41,700	400	170	8,000
SD-170	170	225	58.5	51	76	90	M14	190	52,000	460	160	11,000
SD-180	180	235	58.5	51	76	90	M14	190	55,000	460	170	12,100

# SDS 免鍵式軸環

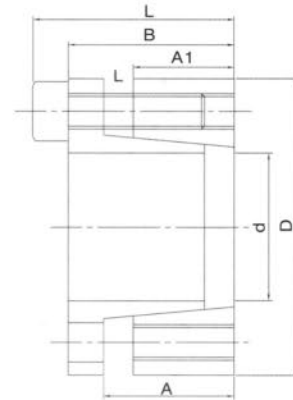
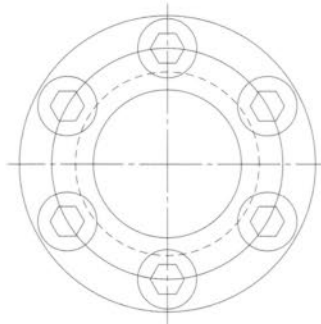


SDS 自動校心型 Self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩

T, F: 在TS下之傳達扭矩及軸向推力

P: 輪轂面壓力

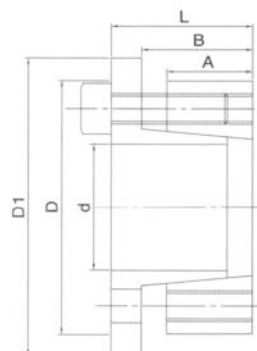
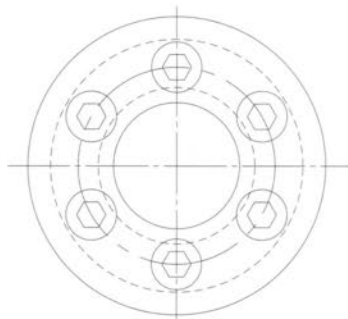


## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	A (mm)	A1 (mm)	B (mm)	L (mm)	M (mm)	TS (N·m)	T (N·m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SDS-06	6	19	10.5	8	13.5	16.5	M3	2.3	6.2	4	53	20
SDS-08	8	22	13	10	17	21	M3	2.3	18	4.7	70	30
SDS-10	10	24	13	10	17	21	M3	2.3	30	6.2	87	60
SDS-11	11	25	13	10	17	21	M3	2.3	34	6.2	84	60
SDS-12	12	26	13	10	17	21	M3	2.3	47	7.8	100	70
SDS-13	13	27	13	10	17	21	M3	2.3	50	7.8	97	80
SDS-14	14	31	16	12.5	21	26	M4	2.3	70	10	87	80
SDS-15	15	32	16	12.5	21	26	M4	3.9	75	10	84	80
SDS-16	16	33	16	12.5	21	26	M4	3.9	80	10	81	80
SDS-17	17	34	16	12.5	21	26	M4	3.9	105	12.5	99	90
SDS-18	18	35	16	12.5	21	26	M4	3.9	110	12.5	96	100
SDS-19	19	47	22	17	28	34	M6	3.9	290	30	100	260
SDS-20	20	47	22	17	28	34	M6	14	320	32	100	250
SDS-22	22	47	22	17	28	34	M6	14	320	32	100	260
SDS-24	24	50	22	17	28	34	M6	14	360	32	100	270
SDS-25	25	50	22	17	28	34	M6	14	420	34	100	270
SDS-28	28	55	22	17	28	34	M6	14	500	34	100	320
SDS-30	30	55	22	17	28	34	M6	14	520	34	100	350
SDS-32	32	60	22	17	28	34	M6	14	770	48	110	370
SDS-35	35	60	22	17	28	34	M6	14	840	48	110	340
SDS-38	38	65	22	17	28	34	M6	14	910	48	110	400
SDS-40	40	65	22	17	28	34	M6	14	960	48	110	380
SDS-42	42	75	25	20	33	41	M8	14	1,000	65	110	650
SDS-45	45	75	25	20	33	41	M8	35	1,500	65	110	630
SDS-48	48	80	25	20	33	41	M8	35	2,000	85	140	700
SDS-50	50	80	25	20	33	41	M8	35	2,100	85	140	680
SDS-55	55	85	25	20	33	41	M8	35	2,500	95	140	730
SDS-60	60	90	25	20	33	41	M8	35	2,700	90	130	780
SDS-65	5	95	25	20	33	41	M8	35	3,200	100	140	830
SDS-70	70	110	30	24	40	50	M10	35	4,900	140	140	1,330
SDS-75	75	115	30	24	40	50	M10	70	5,300	140	130	1,400
SDS-80	80	120	30	24	40	50	M10	70	5,600	140	130	1,480
SDS-85	85	125	30	24	40	50	M10	70	6,700	160	130	1,550
SDS-90	90	130	30	24	40	50	M10	70	7,100	160	130	1,630
SDS-95	95	135	30	24	40	50	M10	70	9,100	195	135	1,700
SDS-100	100	145	32	26	44	56	M12	70	10,200	200	150	2,600
SDS-110	110	155	32	26	44	56	M12	125	10,600	200	150	2,800
SDS-120	120	165	32	26	44	56	M12	125	13,000	216	140	3,000
SDS-130	130	180	40	34	54	64	M12	125	18,900	290	135	4,600
SDS-140	140	190	40	34	54	68	M14	125	20,500	333	125	4,900
SDS-150	150	200	40	34	54	68	M14	190	25,000	362	120	5,200
SDS-160	160	210	40	34	54	68	M14	190	29,000	362	130	5,500
SDS-170	170	225	50	44	64	78	M14	190	34,000	400	135	7,750
SDS-180	180	235	50	44	64	78	M14	190	36,000	400	120	8,150
SDS-190	190	250	50	44	64	78	M14	190	47,500	500	115	9,500
SDS-200	200	265	50	44	64	78	M14	190	50,000	500	140	9,900



# SES 免鍵式軸環



SES 自動校心型 Self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩

T, F: 在TS下之傳達扭矩及軸向推力

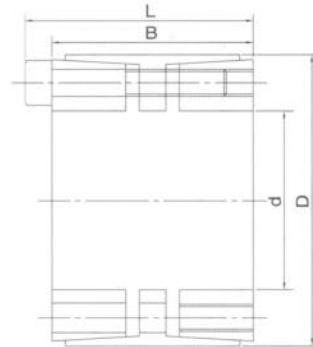
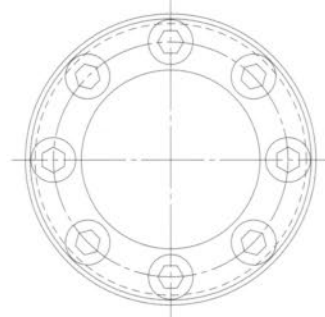
P: 輪轂面壓力

單位 Unit / mm

## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	D1 (mm)	A (mm)	A1 (mm)	B (mm)	L (mm)	M (mm)	TS (N·m)	T (N·m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SES-08	8	22	25	13	10	17	21	M4	3.9	18	4.7	70	30
SES-10	10	24	27	13	10	17	21	M4	3.9	30	6.2	87	60
SES-11	11	25	28	13	10	17	21	M4	3.9	34	6.2	84	60
SES-12	12	26	29	13	10	17	21	M4	3.9	47	7.8	100	70
SES-13	13	27	30	13	10	17	21	M4	3.9	50	7.8	97	80
SES-14	14	31	34	16	12.5	21	26	M5	8	70	10	87	80
SES-15	15	32	35	16	12.5	21	26	M5	8	75	10	84	80
SES-16	16	33	36	16	12.5	21	26	M5	8	80	10	81	80
SES-17	17	34	37	16	12.5	21	26	M5	8	105	12.5	99	90
SES-18	18	35	38	16	12.5	21	26	M5	8	110	12.5	96	100
SES-19	19	47	56	22	17	28	34	M6	17	290	30	100	260
SES-20	20	47	56	22	17	28	34	M6	17	320	32	100	250
SES-22	22	47	56	22	17	28	34	M6	17	320	32	100	250
SES-24	24	50	59	22	17	28	34	M6	17	360	32	100	270
SES-25	25	50	59	22	17	28	34	M6	17	420	34	100	270
SES-28	28	55	64	22	17	28	34	M6	17	500	34	100	320
SES-30	30	55	64	22	17	28	34	M6	17	520	34	100	350
SES-32	32	60	69	22	17	28	34	M6	17	770	48	110	370
SES-35	35	60	69	22	17	28	34	M6	17	840	48	110	340
SES-38	38	65	74	22	17	28	34	M6	17	910	48	110	400
SES-40	40	65	74	22	17	28	34	M6	17	960	48	110	380
SES-42	42	75	84	25	20	33	41	M8	41	1,000	65	110	650
SES-45	45	75	84	25	20	33	41	M8	41	1,500	65	110	630
SES-48	48	80	89	25	20	33	41	M8	41	2,000	85	140	700
SES-50	50	80	89	25	20	33	41	M8	41	2,100	85	140	680
SES-55	55	85	94	25	20	33	41	M8	41	2,500	95	140	730
SES-60	60	90	99	25	20	33	41	M8	41	2,700	90	130	780
SES-65	65	95	104	25	20	33	41	M8	41	3,200	100	140	830
SES-70	70	110	119	30	24	40	50	M10	83	4,900	140	140	1,330
SES-75	75	115	124	30	24	40	50	M10	83	5,300	140	130	1,400
SES-80	80	120	129	30	24	40	50	M10	83	5,600	140	130	1,480
SES-85	85	125	134	30	24	40	50	M10	83	6,700	160	130	1,550
SES-90	90	130	139	30	24	40	50	M10	83	7,100	160	130	1,630
SES-95	95	135	144	30	24	40	50	M10	83	9,100	195	135	1,700
SES-100	100	140	154	32	26	44	56	M12	145	10,200	200	150	2,600
SES-110	110	155	164	32	26	44	56	M12	145	10,600	200	150	2,800
SES-120	120	165	174	32	26	44	56	M12	145	13,000	216	140	3,000
SES-130	130	180	189	40	34	54	64	M12	145	18,900	290	135	4,600
SES-140	140	190	199	40	34	54	68	M14	230	20,500	333	125	4,900
SES-150	150	200	209	40	34	54	68	M14	230	25,000	362	120	5,200
SES-160	160	210	219	40	34	54	68	M14	230	29,000	362	130	5,500
SES-170	170	225	234	50	44	64	78	M14	230	34,000	400	135	7,750
SES-180	180	235	244	50	44	64	78	M14	230	36,000	400	120	8,150
SES-190	190	250	259	50	44	64	78	M14	230	47,500	500	115	9,500
SES-200	200	260	269	50	44	64	78	M14	230	50,000	500	140	9,900

# SF 免鍵式軸環



SF 高扭力型 High torque

M: 公制螺絲 TS: 螺絲旋緊扭矩  
 T, F: 在TS下之傳達扭矩及軸向推力  
 P: 輪殼面壓力

## 尺寸 Dimensions

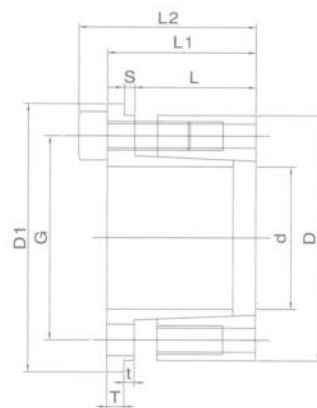
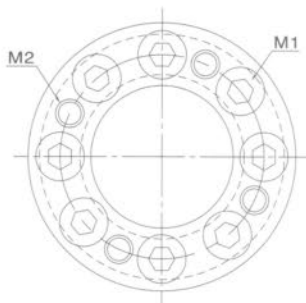
型式 Model	d (mm)	D (mm)	B (mm)	L (mm)	M (mm)	TS (N·m)	T (N·m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SF-25	25	50	45	51	M6	17	900	70	90	420
SF-28	28	55	45	51	M6	17	940	70	90	440
SF-30	30	55	45	51	M6	17	1,100	70	90	480
SF-32	32	60	45	51	M6	17	1,300	70	110	470
SF-35	35	60	45	51	M6	17	1,600	90	110	520
SF-38	38	65	45	51	M6	17	2,400	90	110	610
SF-40	40	65	45	51	M6	17	2,400	120	110	600
SF-42	42	75	45	53	M8	41	3,300	150	140	590
SF-45	45	75	45	53	M8	41	3,300	150	140	850
SF-48	48	80	64	72	M8	41	4,200	160	130	1,300
SF-50	50	80	64	72	M8	41	4,200	160	130	1,200
SF-55	55	85	64	72	M8	41	4,800	170	120	1,350
SF-60	60	90	64	72	M8	41	6,200	200	120	1,400
SF-65	65	95	64	72	M8	41	6,900	210	130	1,550
SF-70	70	110	78	88	M10	85	11,500	330	130	2,900
SF-75	75	115	78	88	M10	85	12,500	330	130	3,100
SF-80	80	120	78	88	M10	85	14,500	360	130	3,250
SF-85	85	125	78	88	M10	85	15,500	400	130	3,450
SF-90	90	130	78	88	M10	85	18,100	400	130	3,600
SF-95	95	135	78	88	M10	85	19,500	400	130	3,850
SF-100	100	145	100	112	M12	150	26,500	500	130	5,700
SF-110	110	155	100	112	M12	150	31,000	600	130	6,300
SF-120	120	165	100	112	M12	150	40,000	660	130	7,000
SF-130	130	180	116	130	M14	230	53,000	800	130	9,800
SF-140	140	190	116	130	M14	230	64,000	900	110	10,400
SF-150	150	200	116	130	M14	230	74,000	1000	110	11,100
SF-160	160	210	116	130	M14	230	84,000	1050	110	11,500
SF-170	170	225	146	162	M16	230	108,000	1300	120	17,800
SF-180	180	235	146	162	M16	230	121,000	1300	120	18,400
SF-190	190	250	146	162	M16	230	133,000	1400	130	23,000
SF-200	200	260	146	162	M16	230	144,000	1400	130	27,000

# SMA 免鍵式軸環



SMA 自動校心型 Self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩  
 T, F: 在TS下之傳達扭矩及軸向推力  
 P: 輪轂面壓力



單位 Unit / mm

## 尺寸 Dimensions

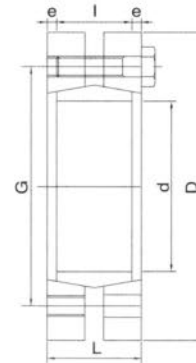
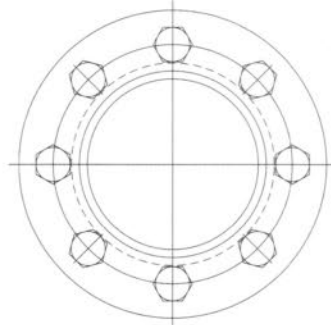
型式 Model	d (mm)	D (mm)	D1 (mm)	G (mm)	L (mm)	L1 (mm)	L2 (mm)	T (mm)	t (mm)	S (N.m)	M1 (mm)	M2 (mm)	TS (N.m)	T (N.m)	F (KN)	P (N/mm <sup>2</sup> )	慣矩 J (Kg.m <sup>2</sup> )	重量 Weight (g)
SMA-20	20	38	42	30.8	15.3	24.1	29.1	3	1.8	4	8-M5x18	4-M5	8.8	216	21.6	130	3.70x10 <sup>-6</sup>	144
SMA-22	22	40	44	32.8	15.3	24.1	29.1	3	1.8	4	8-M5x18	4-M5	8.8	255	22.6	117	4.42x10 <sup>-6</sup>	165
SMA-24	24	42	46	34.8	16.3	25.1	30.1	3	1.8	4	8-M5x18	4-M5	8.8	263	29.9	111	5.45x10 <sup>-5</sup>	180
SMA-25	25	43	47	35.8	17.3	26.1	31.1	3	1.8	4	8-M5x18	4-M5	8.8	329	31.4	102	6.15x10 <sup>-5</sup>	188
SMA-28	28	46	50	38.8	17.3	26.6	31.6	3.5	1.8	4	10-M50x18	4-M5	8.8	441	31.4	119	8.15x10 <sup>-5</sup>	195
SMA-30	30	48	52	40.8	17.3	26.6	31.6	3.5	1.8	4	10-M5x18	4-M5	8.8	500	33.3	114	9.45x10 <sup>-5</sup>	208
SMA-32	32	50	54	42.8	18.3	27.6	32.6	3.5	1.8	4	10-M5x18	4-M5	8.8	530	33.3	104	1.14x10 <sup>-4</sup>	219
SMA-35	35	57	62	48.4	19.5	30	36	4	2	4.5	8-M6x20	4-M6	15.7	883	47.6	114	2.12x10 <sup>-4</sup>	325
SMA-38	38	60	65	51.4	20	30.5	36.5	4	2	4.5	10-M6x20	4-M6	15.7	1,020	49.4	132	2.62x10 <sup>-4</sup>	632
SMA-40	40	62	67	53.4	20.5	31	37	4	2	4.5	10-M6x20	4-M6	15.7	1,079	50.3	124	3.00x10 <sup>-4</sup>	380
SMA-42	42	64	69	55.4	20.5	31.5	37	4	2	4.5	10-M6x20	4-M6	15.7	1,157	51.5	120	3.32x10 <sup>-4</sup>	405
SMA-45	45	67	72	58.4	21	32	37.5	4	2	4.5	10-M6x20	4-M6	15.7	1,285	56.9	112	3.95x10 <sup>-4</sup>	435
SMA-48	48	72	75	61.4	21	32.5	38	4.5	2	4.5	12-M6x20	4-M6	15.7	1,402	58.4	129	4.75x10 <sup>-4</sup>	460
SMA-50	50	75	77	63.4	21.5	32.5	38.5	4.5	2	4.5	14-M6x20	4-M6	15.7	1,705	68.2	143	5.35x10 <sup>-4</sup>	485
SMA-55	55	77	83	68.4	21.5	33.5	38.5	4.5	2	4.5	14-M6x20	4-M6	15.7	1,883	68.5	133	6.80x10 <sup>-4</sup>	520
SMA-60	60	82	87	73.4	22	33.5	39.5	5	2	4.5	15-M6x20	5-M6	15.7	2,108	68.7	131	8.61x10 <sup>-4</sup>	560
SMA-65	65	87	92	78.4	22	36.1	39.5	5	2	4.5	15-M6x20	5-M6	15.7	2,236	68.7	124	1.05x10 <sup>-3</sup>	610
SMA-70	70	97	103	86.2	24	36.1	44.1	5	2	5.1	14-M6x25	4-M8	37.3	3,285	93.2	169	1.88x10 <sup>-3</sup>	845
SMA-75	75	102	108	91.2	24	36.1	44.1	5	2	5.1	15-M6x25	5-M8	37.3	3,746	99.1	172	2.22x10 <sup>-3</sup>	932
SMA-80	80	107	113	96.2	25	37.1	45.1	5	2	5.1	15-M6x25	5-M8	37.3	4,129	103	158	2.67x10 <sup>-3</sup>	1,100
SMA-85	85	112	118	101.2	26	37.1	45.1	5	2	5.1	15-M6x25	5-M8	37.3	4,521	106	151	3.10x10 <sup>-3</sup>	1,270

# SSD 免鍵式軸環



SSD 束軸型 Clamping

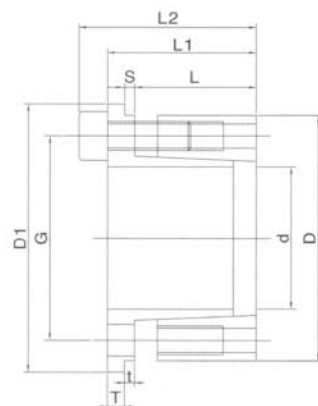
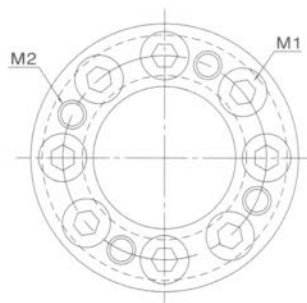
dw公差 dw Toleran CE  
 14~30 H6/f6, 30~50 H6/h6  
 50~80 H6/g6, 80~200 H7/g6



## 尺寸 Dimensions

型式 Model	d (mm)	dw (mm)	D (mm)	l (mm)	L (mm)	G (mm)	e (mm)	M (mm)	TS (N-m)	T (N-m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SSD-14	14	11 12	38	7	11.0	23	2.00	4xM5	4	30 50	6 9	186	100
SSD-16	16	13 14	41	11	15.0	26	2.00	5xM5	4	70 90	10 13	130	150
SSD-24	24	19 20 21	50	14	19	36	2.75	6xM5	4	170 210 250	25 27 29	286	200
SSD-30	30	24 25 26	60	16	21	44	2.75	7xM5	4	300 340 380	29 31 33	233	300
SSD-36	36	28 30 31	72	18	23	52	2.75	5xM6	12	440 570 630	50 58 58	307	470
SSD-44	44	32 35 36	80	20	25	61	2.75	7xM6	12	620 780 860	64 74 77	317	600
SSD-50	50	38 40 42	90	22	27	70	2.75	8xM6	12	940 1,160 1,380	79 86 92	289	840
SSD-55	55	42 45 48	110	23	30	75	3.75	8xM6	12	1,160 1,520 1,880	79 88 99	252	1,100
SSD-62	62	48 50 52	112	23	30	86	3.75	10xM6	12	1,850 2,200 2,400	100 111 117	279	1,300
SSD-68	68	50 55 60	115	23	30	86	3.75	10xM6	12	2,000 2,500 3,150	97 106 120	255	1,400
SSD-75	75	55 60 65	138	25	32	100	3.75	7xM8	30	2,500 3,200 3,950	119 137 155	273	2,400
SSD-80	80	60 65 70	145	25	32	100	3.75	7xM8	30	3,200 3,900 4,600	124 140 158	256	2,600
SSD-85	85	65 70 75	155	30	39	114	4.50	10xM8	30	4,800 6,100 7,400	175 195 216	285	3,400
SSD-90	90	65 70 75	155	30	39	114	4.50	10xM8	30	4,750 6,000 7,250	170 190 210	271	3,300
SSD-100	100	70 75 80	170	34	44	124	5.00	12xM8	30	6,900 7,500 9,000	195 220 240	258	4,400
SSD-110	110	75 80 85	185	39	50	136	5.00	9xM10	59	7,200 9,000 10,800	229 252 262	244	5,900
SSD-115	115	80 85 90	188	39	50	141	5.50	9xM10	59	7,400 9,200 11,100	235 259 269	234	5,800
SSD-120	120	80 85 90	215	42	54	160	5.00	12xM10	59	10,600 13,300 14,500	285 314 340	277	8,600
SSD-125	125	85 90 95	215	42	54	160	6.00	12xM10	59	11,000 13,000 15,000	296 324 352	266	8,600
SSD-130	130	90 95 100	215	42	54	160	6.00	12xM10	59	11,300 13,300 15,400	304 333 362	255	9,000
SSD-140	140	95 100 105	230	46	60	175	7.25	10xM12	100	15,100 17,600 20,100	367 396 425	264	1,000
SSD-155	155	105 110 115	265	50	64	192	7.25	12xM12	100	22,000 25,000 28,000	447 478 509	263	1,600

# SK 免鍵式軸環



SK 自動校心型 Self-centering

M: 公制螺絲 TS: 螺絲旋緊扭矩

T, F: 在TS下之傳達扭矩及軸向推力

P: 輪轂面壓力

單位 Unit / mm

## 尺寸 Dimensions

型式 Model	d (mm)	D (mm)	D1 (mm)	A (mm)	A1 (mm)	B (mm)	L (mm)	M (mm)	TS (N·m)	T (N·m)	F (KN)	P (N/mm <sup>2</sup> )	重量 Weight (g)
SK-08	08	21	23.5	14.5	10	16.5	20.5	M4	4.8	31.4	5.96	80	30
SK-10	10	23	25.5	14.5	10	16.5	20.5	M4	4.8	31.4	5.96	80	40
SK-11	11	24	26.5	14.5	10	16.5	20.5	M4	4.8	34.3	5.96	77	40
SK-12	12	26	28.5	14.5	10	16.5	20.5	M4	4.8	50.3	7.94	95	50
SK-14	14	28	30.5	17.5	12	20	24	M4	4.8	73.3	9.90	92	60
SK-15	15	29	31.5	17.5	12	20	24	M4	4.8	94.1	11.9	107	70
SK-16	16	30	32.5	17.5	12	20	24	M4	4.8	101	11.9	103	70
SK-17	17	31	33.5	17.5	12	20	24	M4	4.8	107	11.9	100	70
SK-18	18	32	34.5	17.5	12	20	24	M4	4.8	113	11.9	97	80
SK-19	19	33	35.5	17.5	12	20	24	M4	4.8	120	11.9	94	80

單位 Unit / mm

## 配合軸環之軸徑、孔徑公差表 Applicable shaft size and bore size

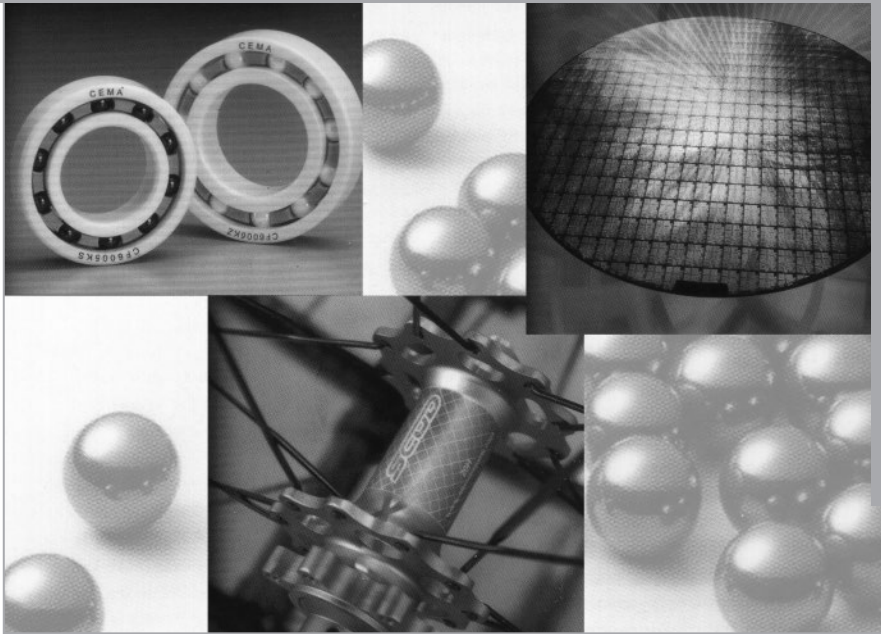
尺寸 Range		ø6~ø10	ø10~ø18	ø18~ø30	ø30~ø50	ø50~ø80	ø80~ø120	ø120~ø180	ø180~ø250	ø250~ø315	環軸配合公差 Fit tolerance of lock
Bore Tolerance 孔徑	H6	+9 +0	+9 +0	+9 +0	+9 +0	+9 +0	+9 +0	+9 +0	+9 +0	+9 +0	
	H7	+15 +0	+15 +0	+15 +0	+15 +0	+15 +0	+15 +0	+15 +0	+15 +0	+15 +0	SC ø10~ø38 SSD, SMA
	H8	+22 +0	+22 +0	+22 +0	+22 +0	+22 +0	+22 +0	+22 +0	+22 +0	+22 +0	SA, SB, SD, SDS SES, SK, SF SCSC ø40~ø150
Shaft Diameter Tolerance 軸徑	h6	-9 -0	-9 -0	-9 -0	-9 -0	-9 -0	-9 -0	-9 -0	-9 -0	-9 -0	SC ø10~ø38
	h7	-15 -0	-15 -0	-15 -0	-15 -0	-15 -0	-15 -0	-15 -0	-15 -0	-15 -0	SSD
	h8	-22 -0	-22 -0	-22 -0	-22 -0	-22 -0	-22 -0	-22 -0	-22 -0	-22 -0	SA, SB, SD, SDS SES, SK, SF SCSC ø40~ø150

SA型 2組使用扭力1.7倍  
3組使用扭力2.3倍  
4組使用扭力2.9倍

SAtype 1.7 Times torque generated by using two sets  
2.3 Times torque generated by using three sets  
2.9 Times torque generated by using four sets

SC型 2組使用扭力1.5倍  
3組使用扭力1.8倍  
4組使用扭力2.0倍

SCtype 1.5 Times torque generated by using two sets  
1.8 Times torque generated by using three sets  
2.0 Times torque generated by using four sets



## 10. 陶瓷軸承

# 陶瓷軸承

## 材料特性表 Material Property

### 金屬材料的特性 Property of Metal Material

金屬材料 Metal Material	線膨脹係數 X10 <sup>-6</sup> °C	縱彈性係數 Gpa	硬度 HV	比透磁率	耐腐蝕性
軸承鋼SUJ2	12.5	208	700~800	強磁性	X
不鏽鋼SUS440C	10.1	200	670	1.04以下	△
不鏽鋼 SUS304C	16.3	193	160	1.04以下	○
不鏽鋼SUS316	16	193	800~1000	1.04以下	○
不鏽鋼SUS630	10.8	200	290~380	強磁性	○

### 陶瓷材料的特性 Property of Ceramic Material

特 性 Property	單位Unit	軸承鋼SUJ2	氧化鋯 ZrO2	氮化矽Si3N4	碳化矽SiC
密 度 Density	g/cm <sup>3</sup>	7.6	6	3.2	3.15
硬 度 Hardness	HV	700~800	1100~1300	1400~1700	2000~2500
抗彎強度 Bending Strength	Mpa	2400	1000~1500	600~1000	450~800
斷裂韌性 Fracture Toughness	Mpa • m <sup>1/2</sup>	15	11	7	4~5
熱膨脹係數 Coff. of Thermal Expansion	X10 <sup>-6</sup> °K	12.5	10.5	3.2	4.3
熱傳導 Thermal conductivity	W/M,K	30~40	3	30	60
耐溫性 Temp. Resistance	°C	180	500	800	1100
磁 性 Magnetism	-	YES	No	No	No
耐腐蝕性 Anti-Corrosion	-	Poor	Good	Good	Excellent

### 工程塑膠的特性 Property of Engineering Plastic

材 料 Material	單位Unit	PP	PE	PTFE	POM	PPS	PEEK
密 度 Density	g/cm <sup>3</sup>	0.91	0.94	2.18	1.41	1.35	1.32
硬 度 Hardness	Rockwell	70~75	65~70	55	80	84	90
最高使用溫度 Max. Operation Temperature	°C	90	80	200	100	230	260
線膨脹係數 Coff. of Linear Expansion	X10 <sup>-5</sup> / K	17	20	12	10	5	5
摩 擦 係 數 Coff. of Friction(μ)	ρ=0.05N/mm2 v=0.6m/s	0.3	0.29	0.1	0.32	-	0.3
耐腐蝕性Anti-Corrosion	-	○	○	◎	△	○	◎

◎ Excellent ○ Good △ Application Limited

# 陶瓷軸承

## 碳化矽陶瓷軸承

### SiC Ceramic Bearing For Industry

#### 產品特色 Product Feature

耐腐蝕性比其他陶瓷材料佳。  
Excellent chemical resistance than other ceramic material.

耐高溫&高熱傳導率  
High temperature resistance & High thermal conductivity.

硬度高，低摩擦係數  
Excellent hardness and wear resistance.

#### 應用場合 Application

滾珠軸承用於強酸輸送環境  
Ball bearing for strong acid chemical conveyor system.

PUMP 內軸承套件  
Bearing bushes for Pump

#### 陶瓷材質耐化性比較

##### Chemical compatibility for different ceramic material

材質 Material	陶瓷材質 Ceramic Material			不鏽鋼 SUS440C
	氧化鋯 ZrO2	氮化矽 Si3N4	碳化矽 SiC	
化學類型 Chemical Type				
弱酸 Weak Acid	○	○	◎	X
強酸 Strong Acid	○	△→○	◎	X
鹼 Alkali	○	○	◎	△
高濕 Humid	◎	○	◎	△
價格 Cost	Middle	High	High	Low

◎Excellent ○Good △Application Limited X Not Recommend



#### SC Series

內外環	Rings	Silicon Carbide (SiC)
保持器	Retainer	Teflon Resin
滾珠	Ball	Silicon carbide (SiC)
產品料號	P/N	SC□□□□KC





## 陶瓷軸承



### PK Series

內外環	Rings	PEEK Resin
保持器	Retainer	PEEK Resin
滾珠	Ball	ZrO2 ; Si3N4 ; SiC Ball

### 產品料號 Product No



## PEEK樹脂軸承 PEEK Plastic Bearing

### 產品特色 Product Feature

PEEK 材質耐溫性佳，連續使用溫度可達 260°C  
PEEK material has higher temperature resistance up to 260°C

在水、酸、鹼化學品環境有良好的耐化性  
Excellent corrosion resistance at most chemical environment.

機械強度佳，材質尺寸穩定性良好  
Excellent dimension stability & mechanical strength.

PEEK 材質通過食品工業FDA認證  
FDA approval for food application industry.

### 應用場合 Application

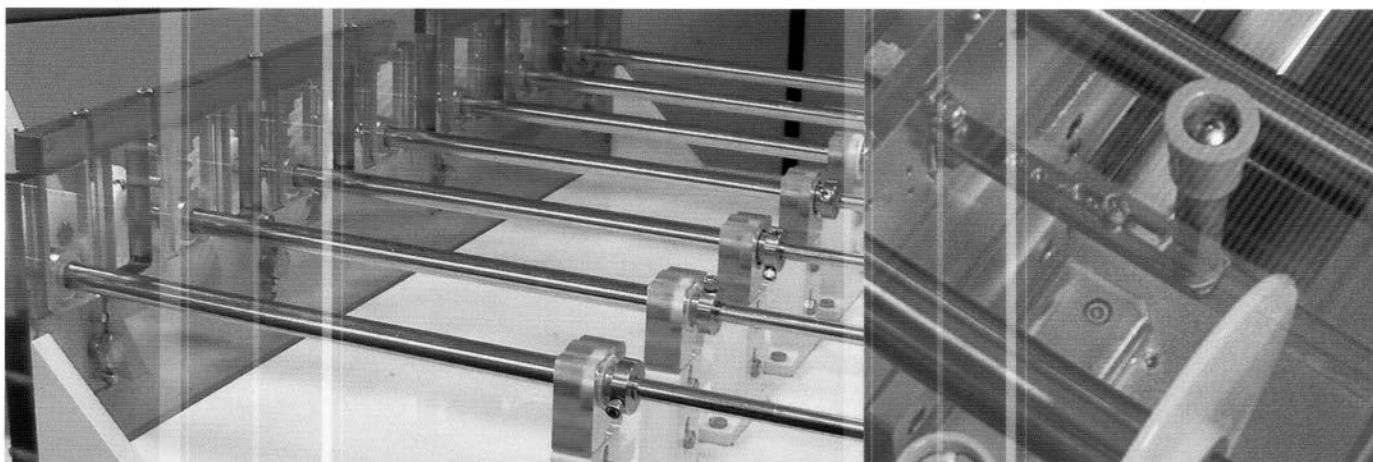
半導體濕式設備..... Semiconductor wet equipment  
LCD蝕刻設備..... LCD wet equipment  
太陽能濕式設備..... Solar Cell wet equipment  
電鍍設備..... Plating equipment  
食品機械..... Food machine

### 使用注意事項 Operation Note

PEEK 軸承的內外徑公差與內部游隙與一般標準軸承不同，內徑公差0~+0.1mm,外徑公差0~-0.1mm  
Tolerances for ID, OD and internal clearance for PEEK bearing are different from standard bearing, ID Tolerance 0~+0.1mm, OD Tolerance 0~-0.1mm

在強酸下使用條件時，請先討論其適用性  
Discuss for chemical compatibility when used on strong acid chemical environment.

樹脂軸承會隨著輸送速度增快而影響壽命  
Plastic bearing life will reduce by faster conveyor speed.



# 陶瓷軸承

## 不鏽鋼陶瓷混合軸承

### Stainless Steel Ceramic Hybrid Bearing

#### 產品特色 *Product Feature*

440C不鏽鋼內外環比軸承鋼不易生鏽

Stainless Steel material rings have good corrosive resistance than chrome steel material.

適用於真空及高溫環境

Suitable for vacuum and high temperature application.

G5等級氮化矽(Si3N4)陶瓷球熱膨脹係數小，重量輕，運轉更順暢

Grade 5 silicon nitride ball have good running performance than steel ball.

低轉速下可以不加油脂運轉，減少製程污染機會

No grease needed to reduce contamination issues at lower speed condition.

#### 應用場合 *Application*

LCD UV/IR 高溫設備，風刀輸送機構

LCD UV/IR high temperature conveyor, A/K conveyor.

半導體設備，太陽能生產設備

Semiconductor equipment, Solar cell equipment.

窯爐高溫設備

High temperature application equipment.

#### 使用注意事項 *Operation Note*

在沒有潤滑狀況下，不建議用於高轉速

Don't recommend higher conveyor speed on greaseless situation.

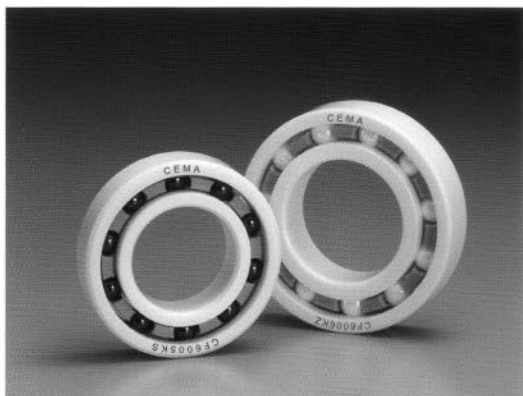


#### SHB Series

內 外 環	Rings	Stainless Steel 440C
保 持 器	Retainer	Stainless Steel ; PEEK Resin
滾 珠	Ball	Si3N4 Ball
產品料號	P/N	SHB□□□□-□S-C4



# 陶瓷軸承



## CF Series

內外環	Rings	ZrO2 Ceramic
保持器	Retainer	PEEK Resin
滾珠	Ball	ZrO2;Si3N4 Ball
產品料號	P/N	CF□□□□KZ

## 氧化鋯陶瓷軸承 ZrO2 Ceramic Bearing For Industry

### 產品特色 Product Feature

- 在腐蝕環境中比不鏽鋼軸承壽命更長  
Excellent chemical resistance than stainless steel bearing.
- 不加潤滑油脂，避免無塵環境中污染  
No grease contamination concern in clean room application.
- 良好的耐腐蝕特性，在大部份酸鹼和溶劑環境中都可使用  
Good corrosion resistance at most acid& alkaline environment.
- 強力型PEEK保持器使用壽命更長久  
Power type PEEK retainer to extend bearing life.
- 無磁性，絕緣  
Non-magnetism,insulation.

### 應用場合 Application

- 半導體濕式設備..... Semiconductor wet equipment
- LCD 濕式設備..... LCD wet equipment
- 食品機械設備..... Food equipment
- 電鍍設備..... Plating equipment
- 化工設備..... Chemical process equipment

### 使用注意事項 Operation Note

- 陶瓷軸承公差配合時，以間隙配合為宜  
Recommend loose clearance for ceramic bearing installation fit.
- 軸承裝置時，請勿以鉚頭敲打，避免破裂  
Don,t strike the bearing when installing the bearing to shaft or bearing house.
- 若使用環境有強酸，建議請先與我們討論使用狀況  
Discuss for chemical compatibility when used on strong acid chemical environment.

