S&K

Flexible Coupling

聯軸器





S&K

聯軸器介紹

聯軸器是連接兩軸使之供回轉並傳遞安全轉矩的一種機械裝置。一般聯軸器可分為撓性及剛性聯軸器兩大類。當動力傳達、兩軸要配置成一直線發生困難時，或者兩軸之安裝非常簡單時，應使用可撓性聯軸器(Flexible Coupling)，它具有緩和衝擊、吸收平行、偏角、軸向位差、改善系統傳動動力特性的功能，因此在安裝時即使軸發生少許之偏差而軸承也不會有勉強的情形，在市場上應用非常廣泛;而剛性(Rigid)聯軸器為一無法造成偏心、偏角之元件，能使被連接的兩軸固定成為一體，因此使用上同心度必需要求非常高。



The coupling is typically a mechanic device linked with two axes to allow for reversing with the safe torque well transferred. The types of ordinary coupling devices can be mainly classified into 2 types, namely flesible coupling devices and rigid coupling devices. When the locomotion is driven, if it exists in the difficulty for both axis arrayed in a straight line, or the assembly of both axis is quite simple, such a situation fits to the flexible coupling device. The said flexible coupling device is featured with impact buffering, parallel stress absorption, deviating angles, axial phase difference, and the inherent improving capability for systematic locomotion. Thus, even the assembly deviation happens between two axes, the bearings will appesr no reluctant operation with a wide range of applications in markets. As for the rigid coupling device, this component is featured with the unavailability to allow for eccentric movement and deviating angles and it can consolidate the 2-axis linkage as a solid one unit. Therefore, the concentricity is extremely required by the practical application.

S&K 聯軸器產品檢索→ Coupling guide

性質 character	撓性聯軸器 FLEXIBLE COUPLING										
品號 item	SCT	SCT-C	SCTS	SCTS-C	SCP	SWS	SWS-C	SWSS	SWSS-C	SRJ	SRJ-C
產品圖 picture											
材質 material	AL	AL	SUS	SUS	PLASTIC	AL	AL	SUS	SUS	AL	AL
高扭力 High torque	★	★	★	★		★	★	★	★	★	★
低慣性 low inertia	★	★	★	★	★	★	★	★	★	★	★
零背隙 zero backlash	★	★	★	★	★	★	★	★	★		
高剛性 high rigid			★	★				★	★	★	★
絕緣性 high insulation					★					★	★
抗蝕性 erode resistance			★	★	★			★	★		
抗震性 anti-seismic										★	★
偏心佳 High eccentric											
偏角佳 High deflection	★	★			★	★	★	★		★	★
頁數 page	P6	P8	P6	P8	P10	P11	P12	P11	P12	P13	P14

S&K 聯軸器產品檢索→ Coupling guide

性質 character	撓性聯軸器 FLEXIBLE COUPLING										
品號 item	SRJS	SMT	SMT-C	SGH-C	SGS-C	SGL-C	SGB-C	SGM-C	SGW-C	SOT	SOT-C
產品圖 picture											
材質 material	S45C	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL
高扭力 High torque	★			★	★	★	★	★	★	★	★
低慣性 low inertia	★	★	★	★	★	★	★	★	★	★	★
零背隙 zero backlash		★	★	★	★	★	★	★	★		
高剛性 high rigid	★			★	★	★	★	★	★	★	★
絕緣性 high insulation	★									★	★
抗蝕性 erode resistance											
抗震性 anti-seismic	★									★	★
偏心佳 High eccentric		★	★							★	★
偏角佳 High deflection		★	★	★	★	★	★	★	★	★	★
頁數 page	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25

S&K 聯軸器產品檢索→ Coupling guide

性質 character	剛性聯軸器 RIGED COUPLING					
品號 item	SCG	SCG-C	SCGS	SCGS-C	CP-A	CP-C
產品圖 picture						
材質 material	AL	AL	SUS	SUS	S45C	
高扭力 High torque	★	★	★	★	★	★
低慣性 low inertia	★	★	★	★	★	★
零背隙 zero backlash	★	★	★	★	★	★
高剛性 high rigid	★	★	★	★	★	★
絕緣性 high insulation						
抗蝕性 erode resistance						
抗震性 anti-seismic					★	★
偏心佳 High eccentric					★	★
偏角佳 High deflection					★	★
頁數 page	P26	P27	P26	P27	P28	P29

- 標準孔徑鍵槽加工規格表.....P30
- 參考資料(扭力換算表&一般馬達規格表).....P31
- 孔徑公差表.....P32

開縫型 / 止付螺絲固定式 / 撓性聯軸器 COUPLING / SLITTED SET SCREW TYPE

S&K **SCT** **SCTS**



型號表示 ProductNO:

SCT-20-ø5xø5

型號 / Type　　孔徑/ Inside dia

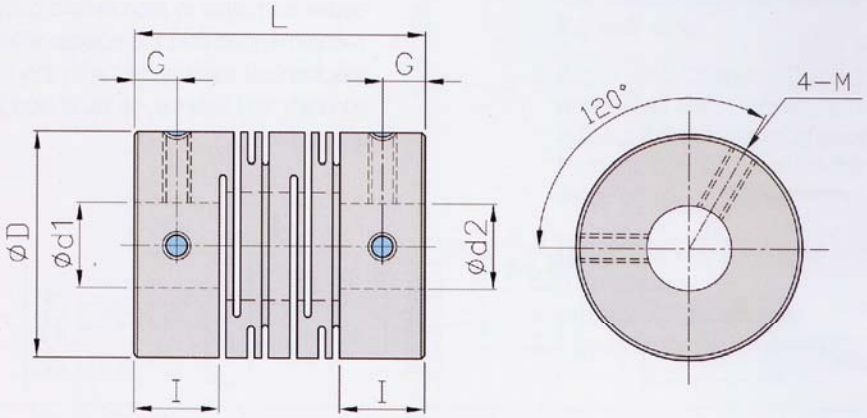
材 質 Material

SCT 系列-鋁合金 Aluminum alloy
SCTS 系列-不銹鋼 Stainless steel

特 性 Features

1. 一體成型
2. 零背隙
3. 剛性大
4. 輕巧、無污染
5. 適合譯碼器，小馬力傳動
6. 偏角誤差較佳
7. 固定方式：止付螺絲固定式

- One-body shape
- Zero backlash
- High rigid
- Light and landy、zero contamination
- Suitable to ENCODER，transfer of low horsepower
- High deflection
- Fixed mode:Set screw type



尺寸 Dimension

單位/Unit:mm

Catalog Number 型號	D	I	L	G	M	d1xd2 標準孔徑 公差(H7) Min	d1xd2 標準孔徑 公差(H7) Max	Mass** 重量 (g)
SCT-8	8	3.5	14.0	1.7	M2	2	4	1.3
SCT-12	12	5.0	18.5	2.5	M2.5	3	6	4.5
SCT-16	16	6.5	23.0	3.0	M3	4	8	9.5
SCT-20	20	7.5	26.0	3.0	M4	5	10	16.0
SCT-25	25	8.5	31.0	4.0	M4	5	12	30.0
SCT-32	32	12.0	41.0	6.0	M5	6	14	65.0
SCT-40	40	15	56.0	8.5	M5	8	20	120.0
SCT-50	50	18	71.0	10.5	M6	12	25	230.0
SCT-63	63	22	90.0	13.0	M8	15	35	470.0
SCTS-12	12	5	18.5	2.5	M2.5	3	6	14.0
SCTS-16	16	6.5	23.0	3.0	M3	4	8	28.0
SCTS-20	20	7.5	26.0	3.0	M4	5	10	45.0
SCTS-25	25	8.5	31.0	4.0	M4	6	12	95.0
SCTS-32	32	12	41.0	6.0	M5	6	14	220.0
SCTS-40	40	15	56.0	8.5	M5	8	20	350.0
SCTS-50	50	18	71.0	10.5	M6	12	25	700.0
SCTS-63	63	22	90.0	13.0	M8	15	35	1300.0

性能 Specifications

Catalog Number 型號	Rated Torque 一般扭力 (N.m)	Max. Torque 最大扭力 (N.m)	Max Rotational Frequency 最高回轉速 (Rpm/min)	Moment* of Inertia 慣性 ($Kg \cdot m^2$)	Static Tortional Stiffness 剛性靜扭力值 (N.m/rad)	Errors of Eccentricity 容許偏心 (mm)	Errors of Angularity 容許偏角 (°)	Errors of Shaft End-Play 容許軸向位差 (mm)
SCT-8	0.1	0.2	48000	$1.2x10^{-8}$	25	0.10	2	±0.2
SCT-12	0.2	0.4	32000	$8.3x10^{-8}$	35	0.10	2	±0.3
SCT-16	0.3	0.6	24000	$3.3x10^{-7}$	47	0.10	2	±0.4
SCT-20	0.5	1.0	19000	$9.0x10^{-7}$	120	0.10	2	±0.4
SCT-25	1.0	2.0	15000	$2.6x10^{-6}$	170	0.15	2	±0.5
SCT-32	2.0	4.0	12000	$9.6x10^{-6}$	280	0.15	2	±0.5
SCT-40	5.0	10.0	9600	$3.2x10^{-5}$	350	0.20	2	±0.5
SCT-50	10.0	20.0	7700	$1.0x10^{-4}$	590	0.20	2	±0.5
SCT-63	20.0	40.0	6100	$3.2x10^{-4}$	850	0.20	2	±0.5
SCTS-12	0.3	0.6	32000	$2.1x10^{-7}$	64	0.10	2	±0.3
SCTS-16	0.5	1.0	24000	$8.4x10^{-7}$	85	0.10	2	±0.3
SCTS-20	1.0	2.0	19000	$2.4x10^{-6}$	250	0.10	2	±0.3
SCTS-25	2.0	4.0	15000	$6.8x10^{-6}$	330	0.15	2	±0.4
SCTS-32	3.5	7.0	12000	$2.6x10^{-5}$	850	0.15	2	±0.5
SCTS-40	8.0	16.0	9600	$8.7x10^{-5}$	1000	0.20	2	±0.5
SCTS-50	15.0	30.0	7700	$2.7x10^{-4}$	1400	0.20	2	±0.5
SCTS-63	35.0	70.0	6100	$8.4x10^{-4}$	1800	0.20	2	±0.5

SCT.SCTS 標準孔徑 Stock Bores

單位/Unit:mm

Catalog Number 型號	Stock Bores 標準孔徑 d1xd2(公差H7)													
	2	3	4	5	6	6.35	8	9.525	10	12	14	15	16	18
SCT-8	●	●	●											
SCTS-8														
SCT-12		●	●	●	●									
SCTS-12		●	●	●	●									
SCT-16			●	●	●	●	●							
SCTS-16				●	●	●	●							
SCT-20				●	●	●	●	●	●					
SCTS-20				●	●	●	●	●	●					
SCT-25				●	●	●	●	●	●	●				
SCTS-25					●	●	●	●	●	●				
SCT-32					●	●	●	●	●	●	●			
SCTS-32					●	●	●	●	●	●	●			
SCT-40							●		●	●	●	●	●	
SCTS-40							●		●	●	●	●	●	●
SCT-50										●	●	●	●	●
SCTS-50										●	●	●	●	●
SCT-63											●	●	●	●
SCTS-63											●	●	●	●

開縫型 / 夾緊式 / 撓性聯軸器 COUPLING / SLITTED CLAMP TYPE

S&K SCT-C SCTS-C



型號表示 ProductNO:

SCT-20C -ø5xø5

型號 / Type　孔徑/ Inside dia

材 質 Material

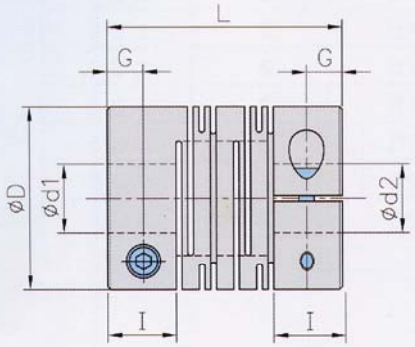
SCT 系列-鋁合金 Aluminum alloy

SCTS 系列-不銹鋼 Stainless steel

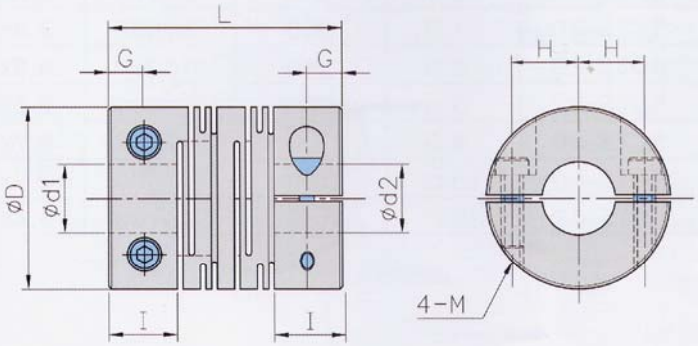
特 性 Features

1. 一體成型
2. 零背隙
3. 剛性大
4. 輕巧、無污染
5. 適合譯碼器，小馬力傳動
6. 偏角誤差較佳
7. 固定方式：夾緊式(易拆卸，不損軸心)

- One-body shape
- Zero backlash
- High rigid
- Light and landy、zero contamination
- Suitable to ENCODER，transfer of low horsepower
- High deflection
- Fixed mode:Clamp type



外徑øD12~øD32



外徑øD40~øD63

尺寸 Dimension

單位/Unit:mm

Catalog Number 型號	D	I	L	G	H	M	d1xd2 標準孔徑 公差(H7) Min	d1xd2 標準孔徑 公差(H7) Max	Mass** 重量 (g)
SCT-12C	12	5.0	18.5	2.5	4.0	M2	3	5	3.6
SCT-16C	16	6.5	23.0	3.25	5.0	M2.5	4	6	9.2
SCT-20C	20	7.5	26.0	3.75	6.5	M3	4	8	16.0
SCT-25C	25	8.5	31.0	4.25	9.0	M3	5	10	28.0
SCT-32C	32	12.0	41.0	6.0	11.0	M4	6	14	64.0
SCT-40C	40	15.0	56.0	8.5	14.0	M5	8	16	140.0
SCT-50C	50	18.0	71.0	10.5	18.0	M6	12	22	270.0
SCT-63C	63	22.0	90.0	13.0	24.0	M8	14	35	530.0
SCTS-12C	12	5.0	18.5	2.5	4.0	M2	3	5	10.0
SCTS-16C	16	6.5	23.0	3.25	5.0	M2.5	4	6	25.0
SCTS-20C	20	7.5	26.0	3.75	6.5	M3	5	8	43.0
SCTS-25C	25	8.5	31.0	4.25	9.0	M3	6	10	78.0
SCTS-32C	32	12.0	41.0	6.0	11.0	M4	8	14	170.0
SCTS-40C	40	15.0	56.0	8.5	14.0	M5	8	16	370.0
SCTS-50C	50	18.0	71.0	10.5	18.0	M6	12	22	750.0
SCTS-63C	63	22.0	90.0	13.0	24.0	M8	14	35	1400.0

性能 Specifications

Catalog Number 型號	Rated Torque 一般扭力 (N.m)	Max. Torque 最大扭力 (N.m)	Max Rotational Frequency 最高回轉速 (Rpm/min)	Moment* of Inertia 慣性 ($Kg \cdot m^2$)	Static Tortional Stiffness 剛性靜扭力值 (N.m/rad)	Errors of Eccentricity 容許偏心 (mm)	Errors of Angularity 容許偏角 (°)	Errors of Shaft End-Play 容許軸向位差 (mm)
SCT-12C	0.2	0.4	12000	$7.8x10^{-8}$	35	0.10	2	±0.3
SCT-16C	0.3	0.6	9500	$3.4x10^{-7}$	47	0.10	2	±0.4
SCT-20C	0.5	1.0	7600	$9.1x10^{-7}$	120	0.10	2	±0.4
SCT-25C	1.0	2.0	6100	$2.6x10^{-6}$	170	0.15	2	±0.5
SCT-32C	2.0	4.0	4800	$9.7x10^{-6}$	280	0.15	2	±0.5
SCT-40C	5.0	10.0	3800	$3.3x10^{-5}$	350	0.20	2	±0.5
SCT-50C	10.0	20.0	3100	$1.0x10^{-4}$	590	0.20	2	±0.5
SCT-63C	20.0	40.0	2400	$3.2x10^{-4}$	850	0.20	2	±0.5
SCTS-12C	0.3	0.6	12000	$2.2x10^{-7}$	64	0.10	2	±0.2
SCTS-16C	0.5	1.0	9500	$9.0x10^{-7}$	85	0.10	2	±0.3
SCTS-20C	1.0	2.0	7600	$2.5x10^{-6}$	250	0.10	2	±0.3
SCTS-25C	2.0	4.0	6100	$7.1x10^{-6}$	330	0.15	2	±0.4
SCTS-32C	3.5	7.0	4800	$2.7x10^{-5}$	850	0.15	2	±0.5
SCTS-40C	8.0	16.0	3800	$9.0x10^{-5}$	1000	0.20	2	±0.5
SCTS-50C	15.0	30.0	3100	$2.8x10^{-4}$	1400	0.20	2	±0.5
SCTS-63C	35.0	70.0	2400	$8.8x10^{-4}$	1800	0.20	2	±0.5

SCT-C.SCTS-C 標準孔徑 Stock Bores

單位/Unit:mm

Catalog Number 型號	Stock Bores 標準孔徑 d1xd2(公差H7)													
	2	3	4	5	6	6.35	8	9.525	10	12	14	15	16	18
SCT-12C		●	●	●										
SCTS-12C		●	●	●										
SCT-16C			●	●	●	●								
SCTS-16C			●	●	●	●								
SCT-20C			●	●	●	●	●							
SCTS-20C				●	●	●	●							
SCT-25C				●	●	●	●	●	●					
SCTS-25C					●	●	●	●	●					
SCT-32C							●	●	●	●	●			
SCTS-32C							●	●	●	●	●			
SCT-40C							●	●	●	●	●	●	●	
SCTS-40C							●	●	●	●	●	●	●	
SCT-50C										●	●	●	●	●
SCTS-50C										●	●	●	●	●
SCT-63C											●	●	●	●
SCTS-63C											●	●	●	●

S&K 工程塑膠/止付螺絲固定式/撓性聯軸器 COUPLING / PLASTIC & SET SCREW TYPE

SCP

型號表示 ProductNO:

SCP-20 - ø6xø6

型號/Type　孔徑/Inside dia



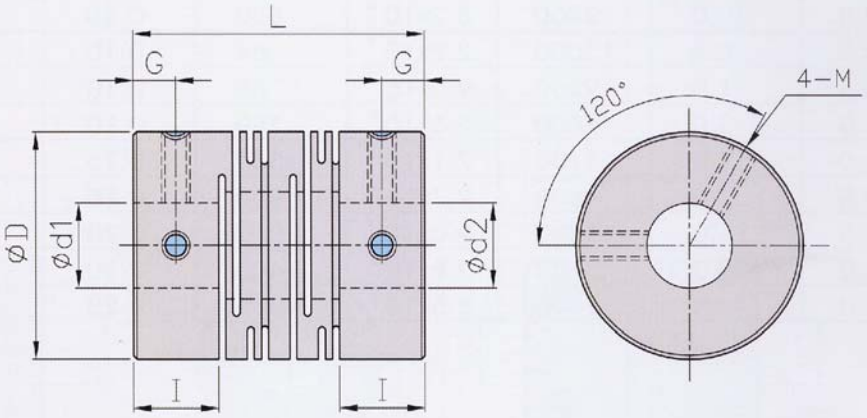
材質 Material

塑膠Plastic (黑、白/black&white)

特性 Features

1. 一體成型
2. 零背隙
3. 耐酸鹼
4. 絕緣佳
5. 偏角誤差較佳
6. 適合用於譯碼器
7. 溫度環境適用於70°C之內
8. 固定方式：止付螺絲固定式

- One-body shape
- Zero backlash
- Resistion acid and basic
- High insulation
- High deflection
- Suitable to Encoder
- The workable temperatures within 70°C
- Fixed mode:Set screw type



尺寸 Dimension

單位/Unit:mm

Catalog Number 型號	D	I	L	G	M	d1xd2 標準孔徑 公差(H7) Min	d1xd2 標準孔徑 公差(H7) Max	Mass** 重量 (g)
SCP-16	16	6.5	23	3	M3	5	8	5
SCP-20	20	7.5	26	3.5	M4	6	8	8
SCP-25	25	8.5	31	4	M4	6	12	15

性能 Specifications

Catalog Number 型號	Rated Torque 一般扭力 (N.m)	Max. Torque 最大扭力 (N.m)	Max Rotational Frequency 最高回轉速 (Rpm/min)	Moment* of Inertia 慣性 ($Kg \cdot m^2$)	Static Tortional Stiffness 剛性靜扭力值 (N.m/rad)	Errors of Eccentricity 容許偏心 (mm)	Errors of Angularity 容許偏角 (°)	Errors of Shaft End-Play 容許軸向位差 (mm)
SCP-16	0.15	0.3	6000	$1.3x10^{-7}$	16	0.2	2.5	±0.3
SCP-20	0.25	0.5	8000	$4.0x10^{-7}$	28	0.2	2.5	±0.3
SCP-25	0.5	1.0	10000	$10.0x10^{-7}$	35	0.2	2.5	±0.3

S&K SMT



材 質 Material

鋁合金 Aluminum alloy

特 性 Features

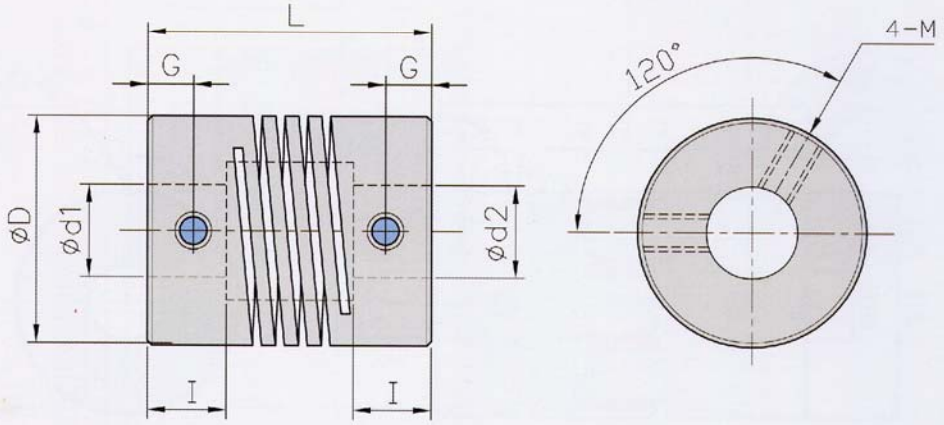
1. 一體成型
2. 零背隙
3. 螺旋式溝槽，可撓性特佳
4. 最適合譯碼器
5. 固定方式：止付螺絲固定式

- One-body shape
- Zero backlash
- The groves are shaped spirally with its excellent flexibility
- Suitable to ENCODER
- Fixed mode:Set screw type

型號表示 ProductNO:

SMT-20 - ø6xø6

型號 / Type　　孔徑/ Inside dia



尺寸 Dimension

單位/Unit:mm

Catalog Number 型號	D	I	L	G	M	d1xd2 標準孔徑 公差(H7) Min	d1xd2 標準孔徑 公差(H7) Max	Mass** 重量 (g)
SMT-16	16	7.6	23	3.5	M3	4	8	10
SMT-16S	16	4.3	16	2.5	M3	4	8	8
SMT-19	19	7	23	3	M3	5	8	13
SMT-19S	19	5	19	3	M3	5	8	11
SMT-20	20	8.6	26	3	M4	6	10	15
SMT-25	25	10.6	31	4	M4	6	12	31
SMT-25S	25	7.5	25	4	M4	6	12	29

性能 Specifications

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

十字滑動型 / 止付螺絲固定式 / 撓性聯軸器 COUPLING / OLDHAM SET SCREW TYPE

S&K SOT

型號表示 ProductNO:

SOT-40 - ⌀8x⌀8

型號 / Type　　孔徑/ Inside dia



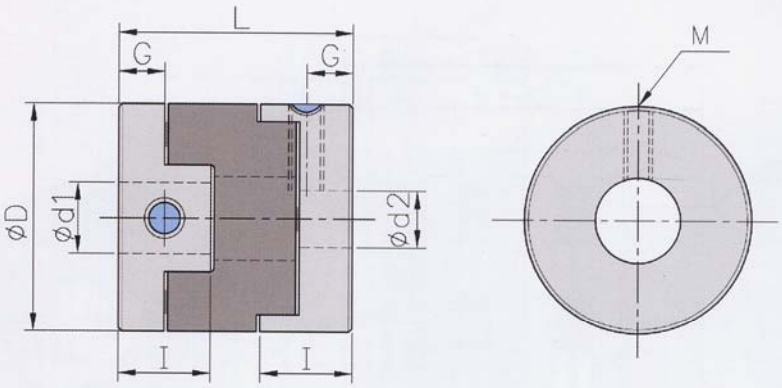
材 質 Material

鋁合金 Aluminum alloy

特 性 Features

1. 高剛性
2. 絕緣性佳
3. 組合容易
4. 耐油性
5. 容許偏心、偏角大
6. 緩衝材：工程塑膠
7. 固定方式：止付螺絲固定式

- High-rigid
- High insulation
- Handy assembly
- Excellent resistance to oil
- High eccentricity and angularity
- Buffer Material:Engineering class plastic
- Fixed mode:Set screw type



尺寸 Dimension

單位 /Unit:mm

Catalog Number 型號	D	I	L	G	M	d1xd2 標準孔徑 公差(H7) Min	d1xd2 標準孔徑 公差(H7) Max	Mass** 質量 (g)
SOT-16	16	7	18	3.5	M3	4	6.35	7
SOT-20	20	10	22	4.5	M4	5	8	14
SOT-25	25	12	28	5.5	M5	5	10	27
SOT-32	32	14	33	6.5	M6	8	14	50
SOT-40	40	15	35	7.0	M6	10	16	80
SOT-50	50	16.5	38	8.5	M8	14	20	150
SOT-63	63	20.5	47	10.5	M10	15	25	300

性能 Specifications

Catalog Number 型號	Rated Torque 一般扭力 (N.m)	Max. Torque 最大扭力 (N.m)	Max Rotational Frequency 最高回轉速 (Rpm/min)	Moment* of Inertia 慣性 ($Kg \cdot m^2$)	Static Tortional Stiffness 剛性靜扭力值 (N.m/rad)	Errors of Eccentricity 容許偏心 (mm)	Errors of Angularity 容許偏角 (°)
SOT-16	0.7	1.4	9500	$3.2x10^{-7}$	31	1.0	3
SOT-20	1.2	2.4	7600	$1.0x10^{-6}$	60	1.5	3
SOT-25	2.0	4.0	6100	$3.0x10^{-6}$	140	2.0	3
SOT-32	4.5	9.0	4800	$9.5x10^{-6}$	280	2.5	3
SOT-40	9.0	18.0	3800	$2.3x10^{-5}$	540	3.0	3
SOT-50	18.0	36.0	3100	$6.7x10^{-5}$	820	3.5	3
SOT-63	36.0	72.0	2400	$2.2x10^{-4}$	1900	4.0	3