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3 扭力限制器 Torque Limiter

精禾科技股份有限公司

台中市西屯區福中二街10巷22號1樓

TEL : 04-23501313 傳真 : 04-23501389

電子信箱 : genho.com@msa.hinet.net

謙虛的態度、專業的服務

精密定位扭力限制器 / Accuracy Positioning Type 34

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★本公司產品全面符合RoHS規範

Each type has a green design corresponding to the RoHS.

扭力限制器 Torque Limiter

精密定位扭力限制器 / Accuracy Positioning Type



● STF系列 / STF Series

STF 法蘭型系列附有法蘭面，可裝配平台、齒輪、鏈輪使用，此項過負荷保護，針對旋轉垂直方向出力有效，在正常使用下，可精確傳達扭力，且無背隙減少動作上的耗損。

STF Series, the flanged type, can be used to platform, gear and sprocket. It provides overload protection to rotationwise and verticalwise power output. In normal usage, it can precisely transmit torque, and lower the loss of drive without backlash.



● STC系列 / STC Series

STC 聯軸型系列適用於軸與軸聯結，此項過負荷保護，針對旋轉垂直方向出力有效，具備吸收軸與軸之間排列落差特性。

STC Series, the coupling type provides shaft-to-shaft connection, and overload protection to rotationwise and verticalwise power output. It can absorb the shaft-to-shaft misalignment.

精禾科技股份有限公司

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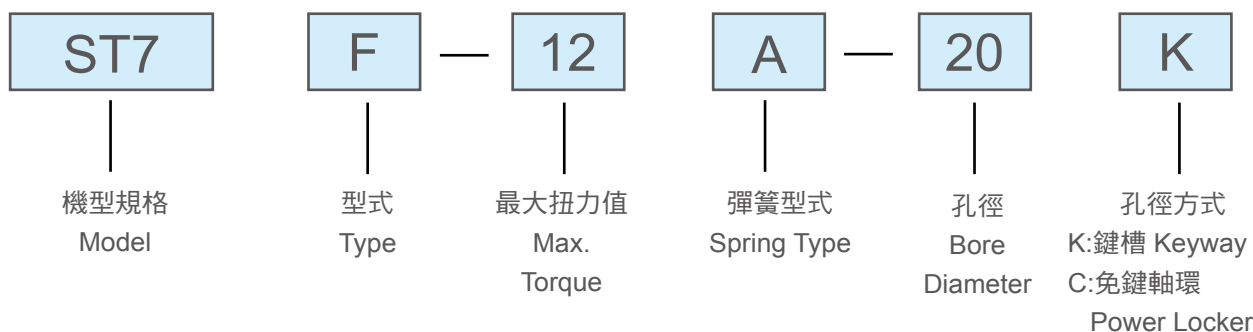
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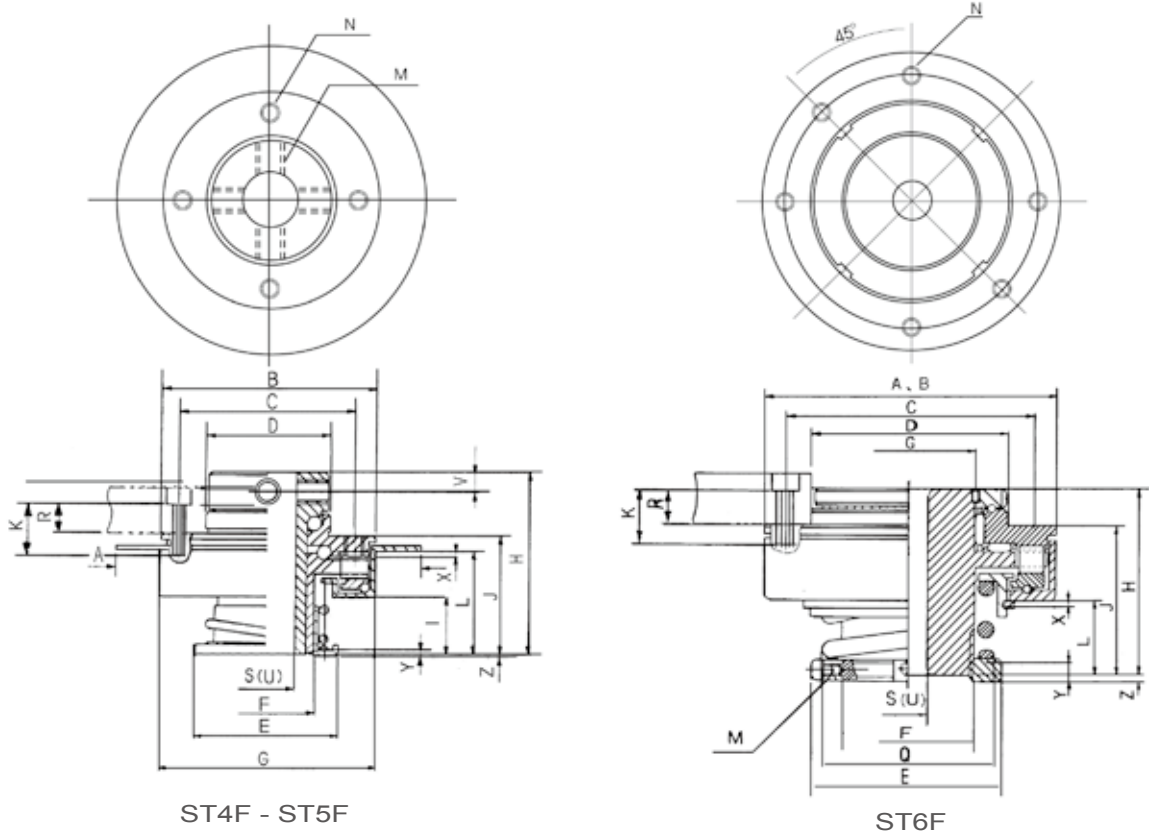
扭力限制器精度 Accuracy of Torque Limiter

規格 No.	ST4F~ST5F	ST6F~ST18F	ST4C~ST5C	ST6C~ST18C
定位精度 Accuracy of Positioning	1~2mim	30sec	1~2mim	30sec
重現精度 Accuracy of Repeatability	30sec	15sec	30sec	15sec

選用方式 Ordering Specification



STF 精密定位型扭力限制器 / Accuracy Positioning Type



ST4F - ST5F

ST6F

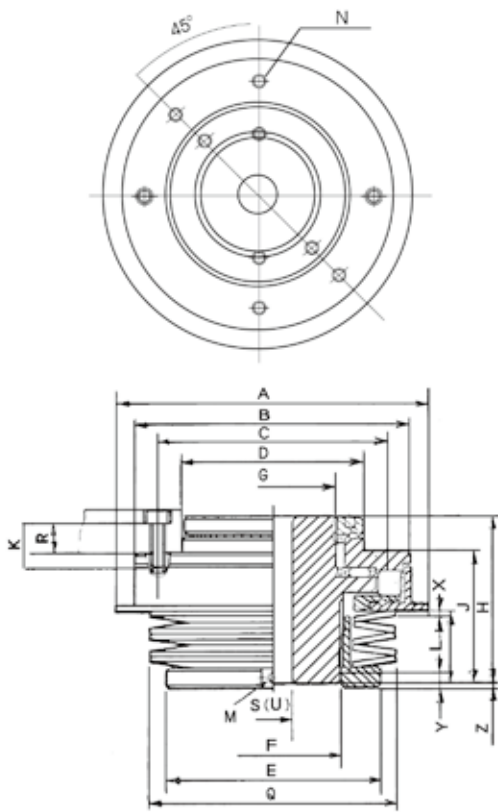
◆尺寸 / Dimension

尺寸單位：mm

規格 No.	扭力 T kg.m	A	B	C	D	E	F	G	H	I	J	K*	L	M	N	Q	S	U	V	X	(Z)
ST4F-007C	0.03~0.07									11.2			21.2							1.1	0.7
ST4F-010C	0.04~0.10	64	64	PCD	26	32	M20	46	38	11.4			21.4	4.M5			7	12	4	1.3	0.5
ST4F-030C	0.1~0.30			36	h7		P1			11.2		R+4.5	21.2	P0.8	4-M4				1.1	0.7	
ST4F-045C	0.15~0.45									11.4			21.4	深4.7					1.3	0.5	
ST5F-030C	0.08~0.30									17.5			29.0							0.9	1.3
ST5F-060C	0.15~0.60	82	63	PCD	35	45	M30	63	50	18.0			29.5	4.M6	4-M4		9	20	6	1.4	0.8
ST5F-100C	0.20~1.00			50	h7		P1.5			17.5	34	R+5.5	29.0	P1	P0.7				0.9	1.3	
ST5F-180C	0.40~1.80									18.0			29.5	深5.7					1.4	0.8	
ST6F-07C	0.2~0.7												25.0							1.3	3.9
ST6F-1C	0.3~1.0	88	88	PCD	60	58	M40	M40	60				25.5	2.M5	6-M6		12.5	27		2.0	3.2
ST6F-3C	1.0~3.0			75	h7		P1.5					R+7	25.0	P0.8	P1				1.3	3.9	
ST6F-5C	1.5~5.0												25.5	深7					2.0	3.2	
ST7F-7A	2.2~7												30.0							1.6	1.7
ST7F-12A	4~12	128	113	PCD	75	88	M52		70				31.0	2.M5	6-M6				2.5	0.9	
ST7F-25B	8~25			95	h7		P1.5				55	R+9	30.0	P0.8	P1	102	16.5	35	1.6	1.4	
ST7F-40B	12~40												31.0	深9					2.5	0.6	
ST8F-12A	5~12												37.5							1.6	0
ST8F-20A	7~20	164	138	PCD	100	109	M72		82				38.5	2.M5	6-M8				2.5	-0.8	
ST8F-40B	12~40			120	h7		P1.5				65	R+11	37.5	P0.8	P1.25	130	16.5	48	1.6	-0.7	
ST8F-60B	20~60												38.5	深11					2.5	-1.5	
ST11F-25A	8~25												42.0							2.0	2.0
ST11F-35A	12~35	198	170	PCD	120	134	M90		95				43.0	2.M5	6-M10				3.0	1.0	
ST11F-85B	22~85			148	h7		P1.5				75	R+13	42.0	P0.8	P1.5	160	16.5	62	2.0	-0.5	
ST11F-120B	35~120												43.0	深13					3.0	-1.5	
ST14F-30A	11~30												43.5							2.6	3.8
ST14F-45A	15~45	236	206	PCD	150	158	M120		105				45.0	2.M5	6-M12				4.0	2.4	
ST14F-120B	42~120			180	h7		P2				85	R+15	43.5	P0.75	P1.75	186	30	90	2.6	2.8	
ST14F-180B	60~180												45.0	深15					4.0	1.4	
ST18F-130A	40~130												59.0							3.3	5.0
ST18F-180A	80~180	280	252	PCD	180	220	M140		135				60.5	2.M5	6-M16				5.0	3.3	
ST18F-300B	150~300			215	h7		P2				110	R+17	59.0	P0.75	P2	236	50	110	3.3	5.2	
ST18F-500B	300~500												60.5	深20					5.0	3.5	

註*：安裝時特別注意螺絲長度。

STF 精密定位型扭力限制器 / Accuracy Positioning Type



ST7F - ST18F

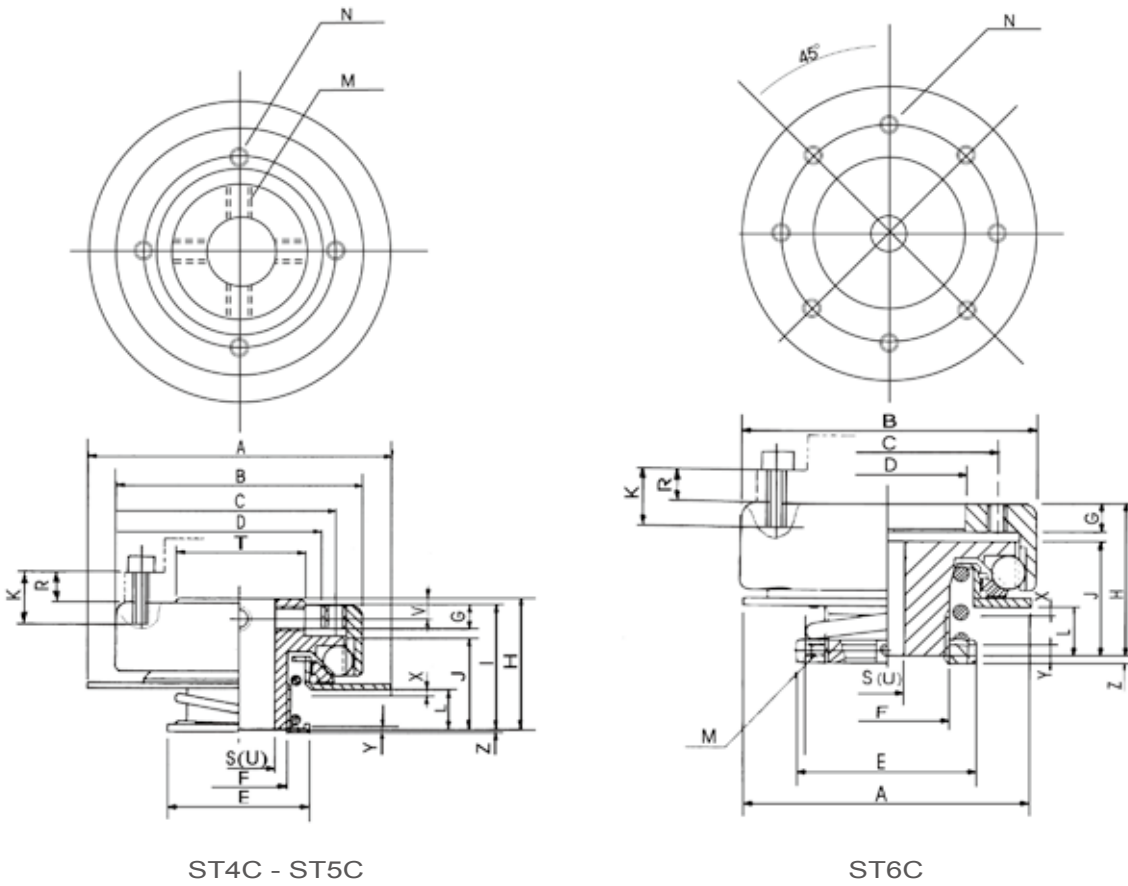
◆注意事項 / Note

- T : 使用扭力的調整範圍 / Adjustment Range of Applied Torque
- S : 預鑽孔尺寸 / Bore Size
- U : 最大加工孔徑尺寸 / Max. Machined Bore Size
- Kmax : 固定螺絲最大長度(請配合N值使用)
Max. Fixing Screw Length (in compliance with N value)
- X : 過負荷作用時，過負荷檢出盤移動距離，請使用近接開關於迴轉驅動機構上
Moving Range of Overload Detector in the event of overload. The proximity sensor can be applied to the rotation mechanism.
- Z : 扭力彈簧自由長時，驅動輪端面和壓緊螺帽端面的段差尺寸，使用此尺寸，算出設定扭力的基準值
The height between the surface of driving wheel and nut surface when torsion spring is at free length, the gap can be the reference to set torque.
- M : 固定壓緊螺帽的固定螺絲外徑與節距調整後請務必將固定螺絲鎖好
Fixing nut by the outer diameter and pitch of screw for fixing nut, be sure of locking the fixing screw after adjustment.
- Tmax : 最大傳達扭力 / Max. Transmissible Torque
- Ymax : 最大調整量 / Max. Adjustment Range
- P : 壓緊螺帽的螺紋節距 / Thread pitch for locking nut
- a : 最大容許軸向推力 / Allowable Max. Axial Thrust
- b : 最大容許側向推力 / Allowable Max. Later Thrust
- c : 最大容許彎曲力距 / Allowable Max. Twisting Torque
- Nmax : 最大容許回轉數 / Allowable Max. Rotational Frequency
- GD : 扭力限制器的慣性距 / Moment of Inertia of Torque Limiter

◆特性表 / Specification

規格 No.	Tmax kg.m	Ymax mm	p mm	a kgf	b kgf	c kgf.m	Nmax rpm	GD ² kgf.m ²	W kgf
ST4F-007C	0.07	3.3	1	7	40	0.35	2000	2.1×10 ⁻⁴	0.24
ST4F-010C	0.10	3.2							
ST4F-030C	0.30	3.3							
ST4F-045C	0.45	3.5							
ST5F-030C	0.30	4.3	1.5	11	58	0.70	1600	9.4×10 ⁻⁴	0.50
ST5F-060C	0.60	5.0							
ST5F-100C	1.00	6.8							
ST5F-180C	1.80	7.9							
ST6F-07C	0.7	12.0	1.5	390	810	12	800	5.2×10 ⁻³	1.5
ST6F-1C	1	11.0							
ST6F-3C	3	12.0							
ST6F-5C	5	11.0							
ST7F-7A	7	8.5	2	730	1100	20	600	1.9×10 ⁻²	3.4
ST7F-12A	12	8.0							
ST7F-25B	25	8.5							
ST7F-40B	40	7.5							
ST8F-12A	12	8.5	2	1050	1500	38	400	6.0×10 ⁻²	6.2
ST8F-20A	20	7.5							
ST8F-40B	40	8.0							
ST8F-60B	60	7.0							
ST11F-25A	25	13.0	2	1500	2250	68	300	0.14	11.4
ST11F-35A	35	12.0							
ST11F-85B	85	8.5							
ST11F-120B	120	7.5							
ST14F-30A	30	14.0	2	2400	2900	104	250	0.34	20
ST14F-45A	45	12.5							
ST14F-120B	120	13.0							
ST14F-180B	180	11.5							
ST18F-130A	130	13.0	2	3080	3600	147	180	1.2	42
ST18F-180A	180	11.5							
ST18F-300B	300	15.0							
ST18F-500B	500	13.5							

STC 精密定位型扭力限制器 / Accuracy Positioning Type



ST4C - ST5C

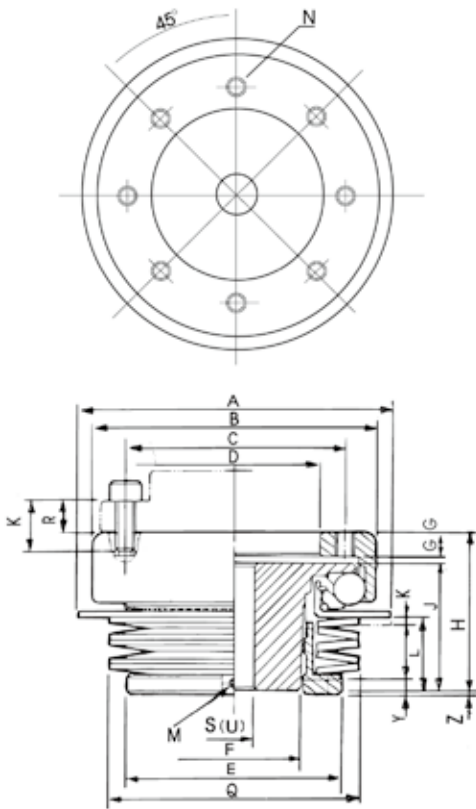
ST6C

◆尺寸 / Dimension

尺寸單位：mm

規格 No.	扭力 T kg.m	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Q	S	U	V	T	X	(Z)	
ST4C-007C	0.03~0.07												7.6									0.7	0.6
ST4C-010C	0.04~0.10	64	52	PCD	34	32	M20	5	28	27	20.5	R+5	8.0	4.M5	4-M4		7	15	4.5	27	1.1	0.2	
ST4C-030C	0.1~0.30			40	H7		P1						7.6	P0.8	深4.7						0.7	0.6	
ST4C-045C	0.15~0.45												8.0								1.1	0.2	
ST5C-030C	0.08~0.30												13.1								0.6	0.3	
ST5C-060C	0.15~0.60	82	71	PCD	46	45	M30	7	40	39	30	R+7	13.7	4.M6	4-M4		9	22	5.5	36	1.2	-0.3	
ST5C-100C	0.20~1.00			55	H7		P1.5						13.1	P1	深5.7						0.6	0.3	
ST5C-180C	0.40~1.80												13.7								1.2	-0.3	
ST6C-06C	0.2~0.6												18.5								1.4	3.2	
ST6C-1C	0.3~1.0	93	95	PCD	50	58	M40	9	52		40	R+8	19.0	2.M5	8-M6		12.5	27			2.2	2.8	
ST6C-3C	1.0~3.0			70	H7		P1.5						18.5	P0.8	深9						1.4	3.2	
ST6C-5C	1.5~5.0												19.0								2.2	2.8	
ST7C-6A	2~6												30.0								1.6	2.0	
ST7C-10A	3~10	128	116	PCD	70	88	55	10	65		52	R+9	31.0	2.M5	8-M8		102	16.5	35		2.4	0.9	
ST7C-20B	6~20			90	H7								30.0	P0.8	P1.25						1.6	1.7	
ST7C-35B	10~35												31.0		深10						2.6	0.6	
ST8C-12A	4~12												35.0								1.7	2.5	
ST8C-15A	6~12	164	142	PCD	90	108	75	12	75		60	R+11	36.0	2.M5	8-M8		130	16.5	51		2.7	1.6	
ST8C-35B	10~35			110	H7								35.0	P0.8	P1.25						1.7	1.8	
ST8C-45B	12~45												36.0		深12						2.7	0.9	
ST11C-20A	7~20												41.5								2.0	2.4	
ST11C-35A	10~35	198	176	PCD	110	134	96	16	90		70	R+15	43.0	2.M5	8-M10		160	16.5	65		3.2	1.0	
ST11C-65B	20~65			130	H7								41.5	P0.8	P1.5						2.0	0	
ST11C-100B	30~100												43.0		深16						3.2	-1.5	
ST14C-30A	10~30												44.0								2.7	4.5	
ST14C-45A	15~45	236	208	PCD	130	158	120	16	100		80	R+15	44.0	2.M5	8-M12		186	16.5	90		4.3	4.5	
ST14C-130B	50~130			160	H7								44.0	P0.75	P1.75						2.7	3.5	
ST14C-200B	80~200												44.0		深16						4.3	3.5	
ST18C-160A	70~160												59.0								3.7	4.8	
ST18C-250A	100~250	285	285	PCD	170	220	170	18	130		108	R+17	59.0	2.M5	8-M16		236	50	130		6.2	5.0	
ST18C-380B	160~380			220	H7								59.0	P0.75	P2						3.7	5.0	
ST18C-500B	300~500												59.0		深18						6.2	5.2	

STC 精密定位型扭力限制器 / Accuracy Positioning Type



ST7C -ST18C

◆注意事項 / Note

- T: 使用扭力的調整範圍 / Adjustment Range of Applied Torque
 - S: 預鑽孔尺寸 / Bore Size
 - U: 最大加工孔徑尺寸 / Max. Machined Bore Size
 - Kmax: 固定螺絲最大長度(請配合N值使用)
Max. Fixing Screw Length (in compliance with N value)
 - X: 過負荷作用時，過負荷檢出盤移動距離，請使用近接開關於迴轉驅動機構上
Moving Range of Overload Detector in the event of overload. The proximity sensor can be applied to the rotation mechanism.
 - Z: 扭力彈簧自由長時，驅動輪端面 and 壓緊螺帽端面的段差尺寸，使用此尺寸，算出設定扭力的基準值
The hight between the surface of driving wheel and nut surface when torsion spring is at free length. The gap can be the reference to set torque.
 - M: 固定壓緊螺帽的固定螺絲外徑與節距調整後請務必將固定螺絲鎖好
Fixing nut by the outer diameter and pitch of screw, be sure of locking the fixing screw after adjustment.
 - Tmax: 最大傳達扭力 / Max. Transmissible Torque
 - Ymax: 最大調整量 / Max. Adjustment Range
 - P: 壓緊螺帽的螺紋節距 / Thread pitch for locking nut
 - θ: 偏角誤差的最大吸收量 / Max. Accommodation of Angularity Error
 - α: 隙縫誤差的最大吸收量 / Max. Accommodation of Clearance Error
 - Nmax: 最大容許回轉數 / Allowable Max. Rotational Frequency
 - GD: 扭力限制器的慣性距 / Moment of Inertia of Torque Limiter
- 註(1) / Note 1:
隙縫誤差 α 的值是以組立尺寸H為基準的軸方向移動容許時請務必留意尺寸H
Clearance Error α is based on axial movement of Assembly Size H, be cautious of Assembly Size H
- 註(2) / Note 2:
平行誤差 β 的值是扭力限制器的扭力傳達用滾珠的位置最大吸收量
Parallel Error β is the maximum accommodation of transmissible ball in torque limiter.
- 註(3) / Note 3:
使用回轉數超過Nmax時，請先敝公司洽談
Please contact with us when the applied rotational frequency is greater than Nmax.

◆特性表 / Specification

規格 No.	Tmax kg.m	Ymax mm	p mm	a kgf	b kgf	c kgf.m	Nmax rpm	GD ² kgf.m ²	W kgf
ST4C-007C	0.07	4.0							
ST4C-010C	0.10	2.7	1	1	±1.0	0.1	2000	3.6×10 ⁻⁴	0.25
ST4C-030C	0.30	4.0							
ST4C-045C	0.45	3.3							
ST5C-030C	0.30	4.2							
ST5C-060C	0.60	5.9	1.5	1	±1.0	0.1	1600	1.6×10 ⁻⁴	0.68
ST5C-100C	1.00	6.8							
ST5C-180C	1.80	7.5							
ST6C-06C	0.6	11.0							
ST6C-1C	1	11.0	1.5	1.5	±1.5	0.1	1000	6.7×10 ⁻³	1.5
ST6C-3C	3	11.0							
ST6C-5C	5	11.0							
ST7C-6A	6	9.0							
ST7C-10A	10	8.0	2	1.2	±1.8	0.1	700	2.3×10 ⁻²	3.2
ST7C-20B	20	9.0							
ST7C-35B	35	7.5							
ST8C-12A	12	11.0							
ST8C-15A	15	10.0	2	1.2	±2	0.1	500	5.5×10 ⁻²	5.3
ST8C-35B	35	10.5							
ST8C-45B	45	9.5							
ST11C-20A	20	13.5							
ST11C-35A	35	12.0	2	1	±2.5	0.1	400	0.14	10.8
ST11C-65B	85	9.0							
ST11C-100B	100	7.5							
ST14C-30A	30	12.0							
ST14C-45A	45	12.0	2	0.7	±3.5	0.1	300	0.37	20
ST14C-130B	130	13.5							
ST14C-200B	200	13.5							
ST18C-160A	160	16.0							
ST18C-250A	250	16.0	3	1	±3.5	0.1	200	1.6	45
ST18C-380B	380	15.0							
ST18C-500B	500	15.0							

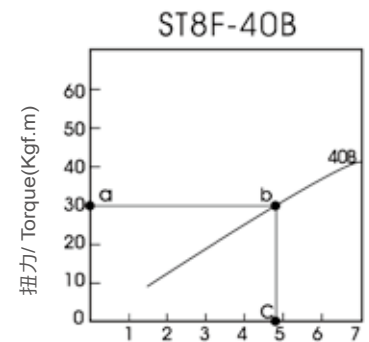
● 扭力限制器調整 / Adjusting Torque Limiter

使用扭力是指負荷超過此扭力時，入力側和出力側的傳達被脫離，STF、STC兩種機種具有調整扭力的機能，只要轉動兩機種的鎖緊螺帽就能簡單調整，但是無法表示出調整後的扭力值，所以請參考下圖可以推算出使用扭力，如果需要更正確的數值請使用扭力測定器等測定。
Torque limiting disengages power input side and power output side when overload is greater than the applied torque. Both STF and STC provide the feature of torque adjustment by merely tightening or loosening the adjusting bolt on them. As to the applied torque value, please refer to the below charts. If you require the accurate torque value, please use the torque meter to obtain the torque measure.

● 扭力值調整使用例 / Torque Adjustment Guide

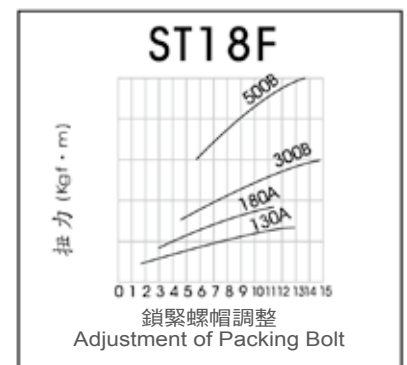
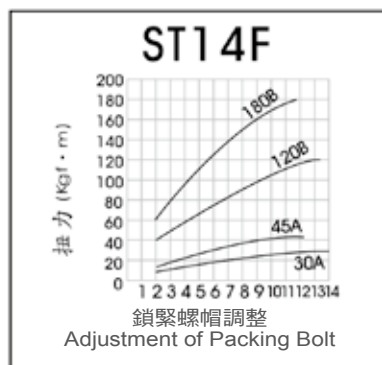
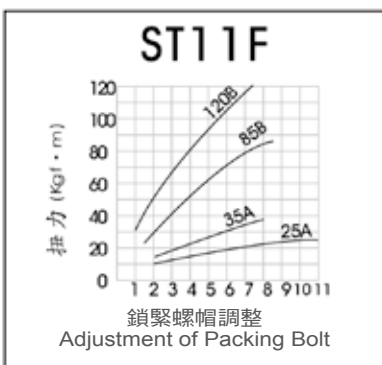
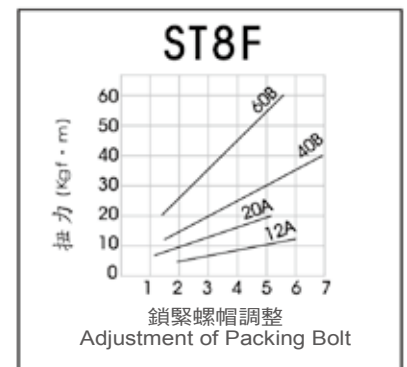
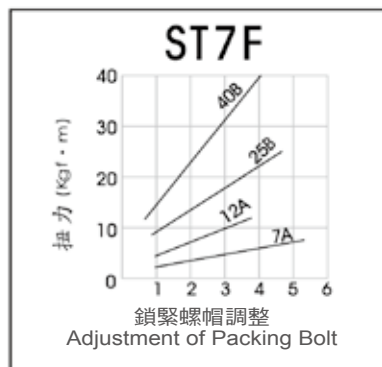
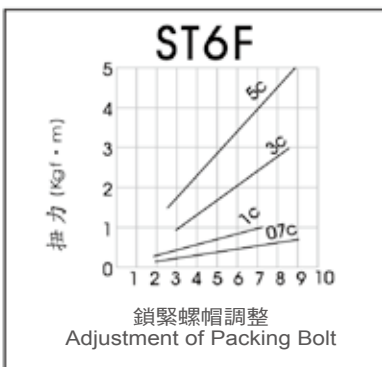
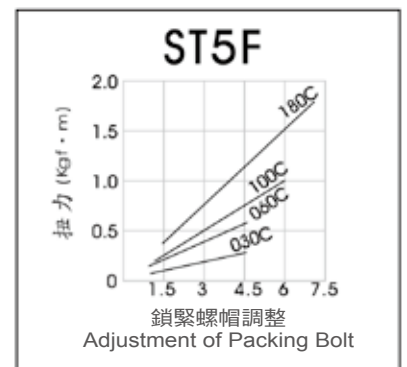
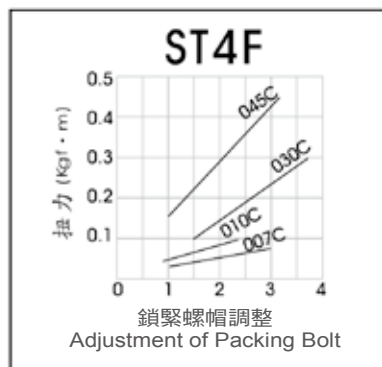
使用扭力和扭力彈簧調整量的關係，依據機種逐一表示。例如，需求使用扭力為30Kgf.m，選定本公司的扭力限制器ST8F-40B，於圖A求出扭力彈簧的鎖緊螺帽調整量。T=30Kgf.m.(點a)將點a水平延伸到ST8F-40B的曲線交點，作為點b。從點b再垂直往下求出點C，得到y=4.9mm(點c)，鎖緊螺帽的螺紋節距從STF型特性表可求出，所以扭力彈簧的鎖緊調整量Y除以螺紋節距P，可以求出鎖緊螺帽的調整迴轉量，換言之螺紋節距P=2mm時，鎖緊螺帽的調整迴轉量是從扭力彈簧變形量為零時位置開始大約轉2.4轉。

The relation between applied torque and torque spring adjustment of each model is presented respectively below. The required torque is 30 kgf.m, and the selected torque limiter is ST8F-40B. please see figure A, finding out the adjustment of packing bolt of torque spring. Torque = 30kgf.m (point a); parallel line from point a intersects with the curve line of ST8F-40B at point b; then vertical line from point b intersects with parallel axis at point c, y=4.9mm (point c), the thread pitch of packing bolt can be derived from the specification of STF type. Thus, Dividing Y, tightening adjustment of torque spring by P, thread pitch can get the rotational adjustment of packing bolt. In other words, if the thread pitch P is equal to 2mm, the rotational adjustment of packing bolt is that rotate the bolt 2.4 screw when the load on torque spring is zero.

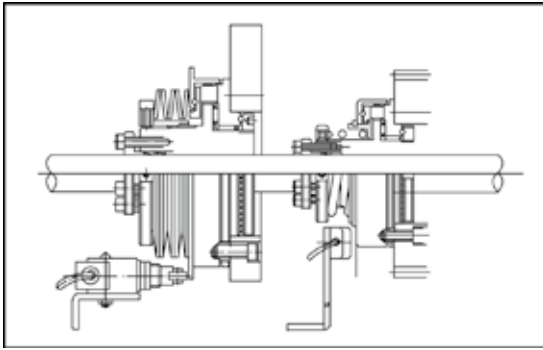


■ STF 型 / STF series

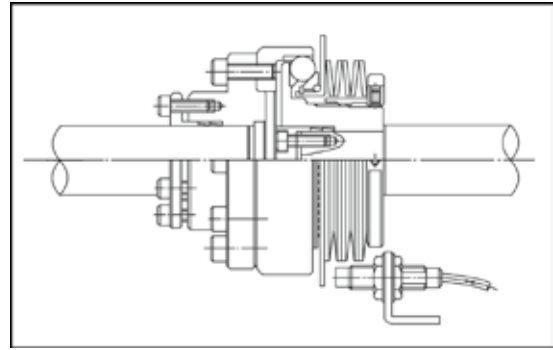
扭力值與鎖緊螺帽調整關係 Guide for Torque and Packing Bolt



扭力限制器應用例 / Application for Torque Limiter



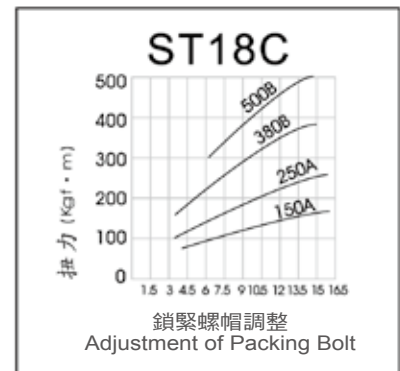
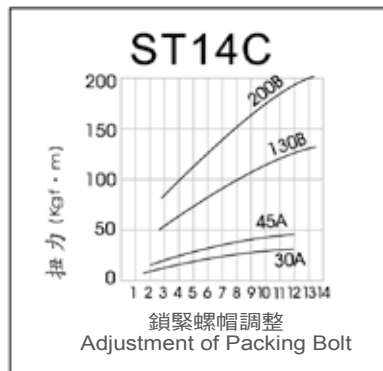
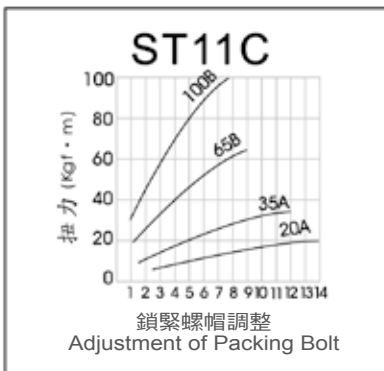
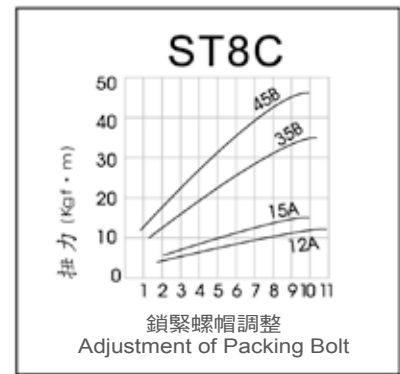
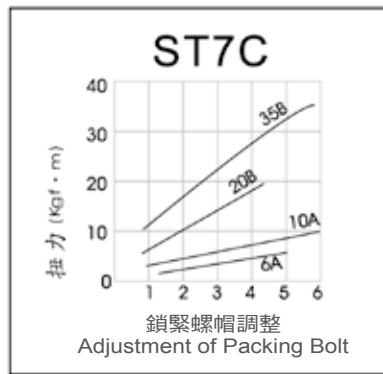
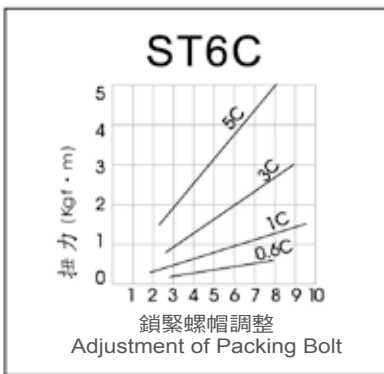
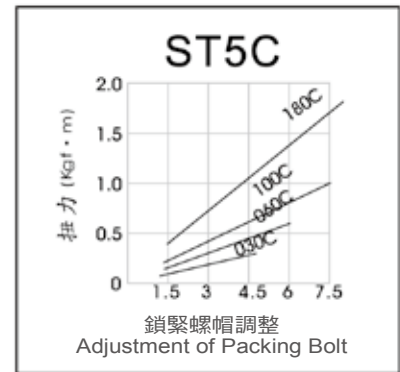
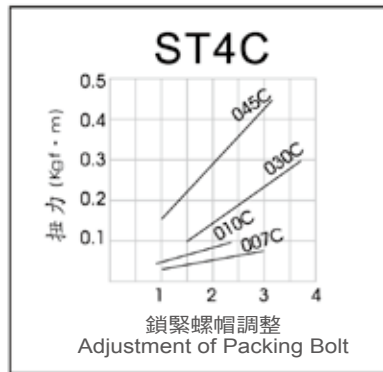
STF 安裝範例
Installation for STF series



STC 安裝範例
Installation for STC series

STC 型 / STC series

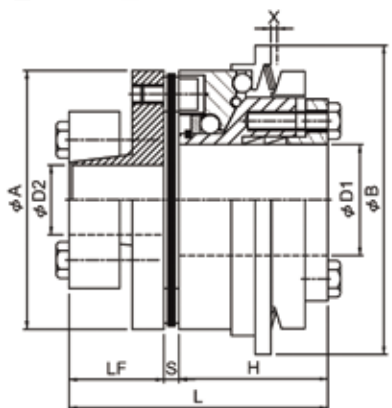
扭力值與鎖緊螺帽調整關係
Guide for Torque and Packing Bolt



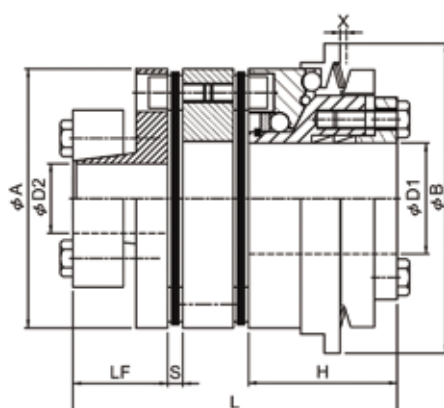
SWT / SWLT 聯軸器型扭力限制器 Torque Limiter with Coupling



- 可取代聯軸器使用 / Substitute for Coupling
- 可精確的傳動扭力 / Precise Transmissible Torque
- 無背隙單點復歸 / Backlash-free, Regression-to-origin
- 具有偵測過載功能 / Overload Detectable
- 耐用免保養壽命長
Endurable, Maintenance-free and Infinite Life

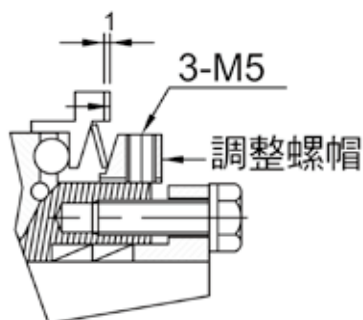


SWT



SWLT

◆ 扭力調整說明：



- 扭力過負荷跳脫距離1mm
- 可安裝檢出裝置
- 先放鬆3-M5螺絲，再調整螺帽
- 最大調整範圍300°
- 扭力側軸用免鍵軸環固定

◆ 特性表 / Specification

單位 / unit:mm

規格 No.	扭力範圍 Torque Range (Kgf.m)	A	B	扭力限制器側 Limiter Side D1	聯軸器側 Coupling Side D2	LF	S	H	L	X	最高轉速 Max. Rotational Frequency (rpm)	重量 kg
SWT-68	A 1~3	68	78	15~25	14~30	25	4.2	45	74.2	1	3000	1.3
	B 2~6											
SWT-82	A 2~7.5	82	96	20~35	16~35	30	4.8	47	81.8	1	2000	1.8
	B 4~15											
SWLT-68	A 1~3	68	78	15~25	14~30	25	4.2	45	94.4	1	3000	1.6
	B 2~6											
SWLT-82	A 2~7.5	82	96	20~35	16~35	30	4.8	47	102.6	1	2000	2.0
	B 4~15											

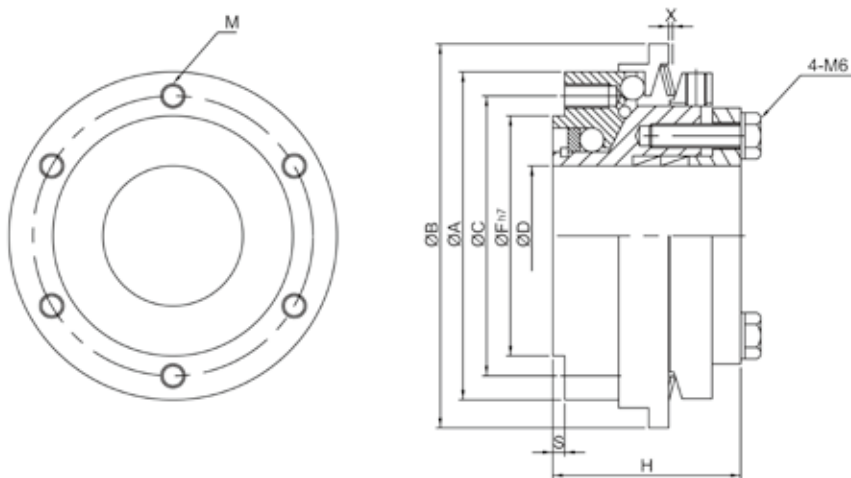
■ SWT/SWLT 選用方式 / Ordering Specification

SWT/SWLT- - -
 外徑 D1 D2
 Diameter

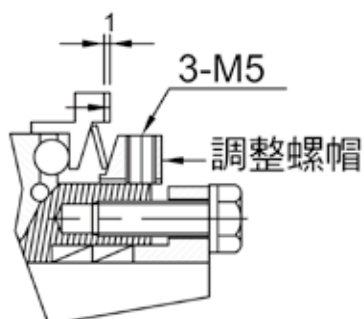
SWTF型扭力限制器 Torque Limiter with Coupling



- 法蘭型 / Flange Type
- 可精確的傳動扭力 / Precise Transmissible Torque
- 無背隙單點復歸 / Backlash-free, Regression-to-origin
- 具有偵測過載功能 / Overload Detectable
- 耐用免保養壽命長
Endurable, Maintenance-free and Infinite Life



◆ 扭力調整說明：



- 扭力過負荷跳脫距離1mm
- 可安裝檢出裝置
- 先放鬆3-M5螺絲，再調整螺帽
- 最大調整範圍300°
- 扭力側軸用免鍵軸環固定

◆ 特性表 / Specification

單位 / unit:mm

規格 No.		扭力範圍 Torque Range (Kgf.m)	A	B	C	D	F _{h7}	S	X	H	M	最高轉速 Max. Rotational Frequency (rpm)	重量 kg
SWTF-68 法蘭型 Flange Type	A	1~3	68	78	60	15~25	50	2	1	45	6-M5	3000	1
	B	2~6											
SWTF-82 法蘭型 Flange Type	A	2~7.5	82	98	70	20~35	60	3	1	47	6-M6	2000	1.45
	B	4~15											

SWTF- -
 外徑 D
 Diameter

摩擦型扭力限制器 Friction Type Torque Limiter

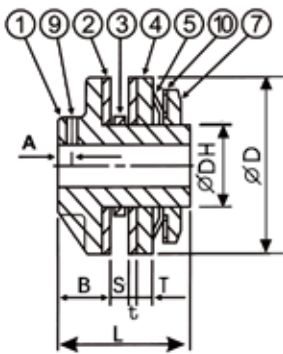


SS350 - 1 C

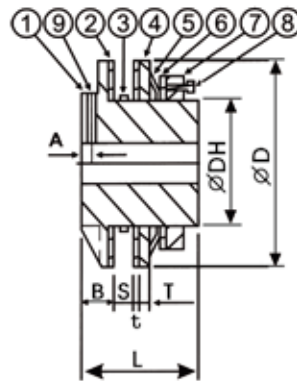
聯軸器型
Coupling type

- 1. 單片彈簧 - Single Disc Spring
- 2. 雙片彈簧 - Double Disc Springs.

產品規格
MODEL



SS200.SS250.SS350



SS500.SS700

部品名稱 / Parts

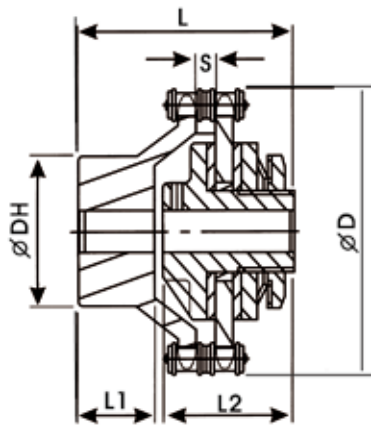
- ① 輪殼 / Hub
- ② 磨擦板 / Friction Disc.
- ③ 軸襯 / Bushing
- ④ 壓力板 / Pressure Disc.
- ⑤ 盤式彈簧 / Disc. Spring
- ⑥ 導板 / Guideway
- ⑦ 調整螺母 / Adjusting Nut
- ⑧ 調整螺栓 / Adjust Bolt
- ⑨ 固定螺絲 / Fixing Screw
- ⑩ 鎖緊墊圈 / Lock Washer

◆尺寸 / Dimension

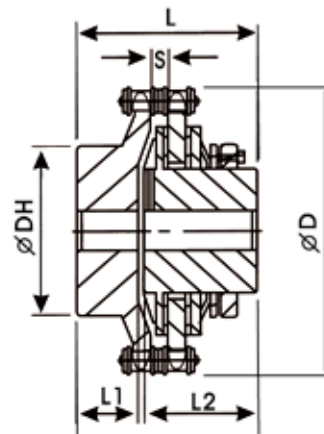
尺寸單位：mm

規格 No.	扭力範圍 Torque Range Kgf.m	標準孔徑 Stock Bore mm	最大孔徑 Max. Bore mm	軸襯長度 Bushing length	軸襯外徑 Bushing outside diameter	中心構件孔徑 Central Member Bore	D	DH	L	B	T	t	S 最大	A	C	調整螺母 Adjust Nut	調整螺栓 Adjust Bolt	固定螺絲 Fixing Screw	重量 Weight (Kgf)
SS200-1	0.3~1	8	14	3.6	30 ^{-0.024}	30 ^{+0.3}	50	24	20	6.5	2.6	2.5	7	-	38	M24	-	-	0.2
SS200-2	0.7~2				0	0										P1.0			
SS250-1	0.7~2.8	10	22	4.5	41 ^{-0.010}	41 ^{+0.05}	65	35	48	16	4.5	3.2	9	4	50	M35	-	M5	0.5
SS250-2	1.4~5.5				0	0										P1.5			
SS350-1	2.0~7.6	17	25	6.5	49 ^{-0.025}	49 ^{+0.05}	89	42	62	19	4.5	3.2	16	6	63	M42	-	M6	1.2
SS350-2	3.5~15.2				0	0										P1.5			
SS500-1	4.8~21.4	20	42	6.5	74 ^{-0.05}	74 ^{+0.05}	127	65	76	22	5.7	3.2	16	7	-	M65	M8	M8	3
SS500-2	9.0~42.9				0	0										P1.5	3 psc		
SS700-1	11.8~58.1	30	64	9.5	105 ^{-0.075}	105 ^{+0.05}	178	95	98	24	7.7	3.2	29	8	-	M95	M10	M10	6.7
SS700-2	22.8~110.6				0	0										P1.5	3 psc		

摩擦型扭力限制聯軸器 Friction Type Torque Limiter



SS200-C.SS250-C.SS350-C



SS500-C.SS700-C

◆尺寸表 / Specification

單位：mm

規格 No.	扭力範圍 Torque Range Kgf.m	最高轉數 Max. Rotational Frequency rpm	普通內徑/Stock Bore		最大內徑 Max. Inside Diameter		鏈輪 Sprocket	D	DH	L	L1	L2	s	重量 Weight (Kgf)
			聯軸器側 Coupling Side	扭力限 制器側 Limiter Side	聯軸器側 Coupling Side	扭力限 制器側 Limiter Side								
SS200-1C	0.3~1	1200	8	8	31	14	RS 40-16T	76	50	55	24	29	7.5	1.0
SS200-2C	0.7~2													
SS250-1C	0.7~2.8	1000	13	10	38	22	RS 40-22T	102	56	76	25	48	7.4	2.0
SS250-2C	1.4~5.5													
SS350-1C	2.0~7.6	800	13	17	45	25	RS 50-24T	137	72	103	37	62	9.7	5.2
SS350-2C	3.5~15.2													
SS500-1C	4.8~21.4	500	18	20	65	42	RS 60-28T	188	105	120	40	76	11.6	12.3
SS500-2C	9.0~42.9													
SS700-1C	11.8~58.1	400	23	30	90	64	RS 80-28T	251	150	168	66	98	15.3	31.0
SS700-2C	22.8~110.6													

◆鏈輪之配合參考表 / Applicable Sprockets

規格 No.	中心構件 孔徑 Central Member Bore	最少鏈輪節距和齒數 / Min. Sprocket Pitch and Number of Teeth													
		3/8" -#35		1/2" -#40		5/8" -#50		3/4" -#60		1" -#80		1 1/4" -#100		1 1/2" -#120	
		最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)	最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)	最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)	最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)	最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)	最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)	最少鏈輪 齒數 Min. Sprocket Teeth	軸襯長度 Bushing length (mm)
SS200	30 ^{+0.03} ₀	20	38	16	6										
SS250	41 ^{+0.05} ₀			20	4.5	17	6.5								
SS350	49 ^{+0.05} ₀			26	4.5	21	6.5	18	9.5	15	9.5				
SS500	74 ^{+0.05} ₀			35	4.5	29	6.5	25	9.5	19	9.5				
SS700	105 ^{+0.05} ₀			48	4.5	39	6.5	33	9.5	26	9.5	21	12.5	18	12.5

◆注意事項 / Note :

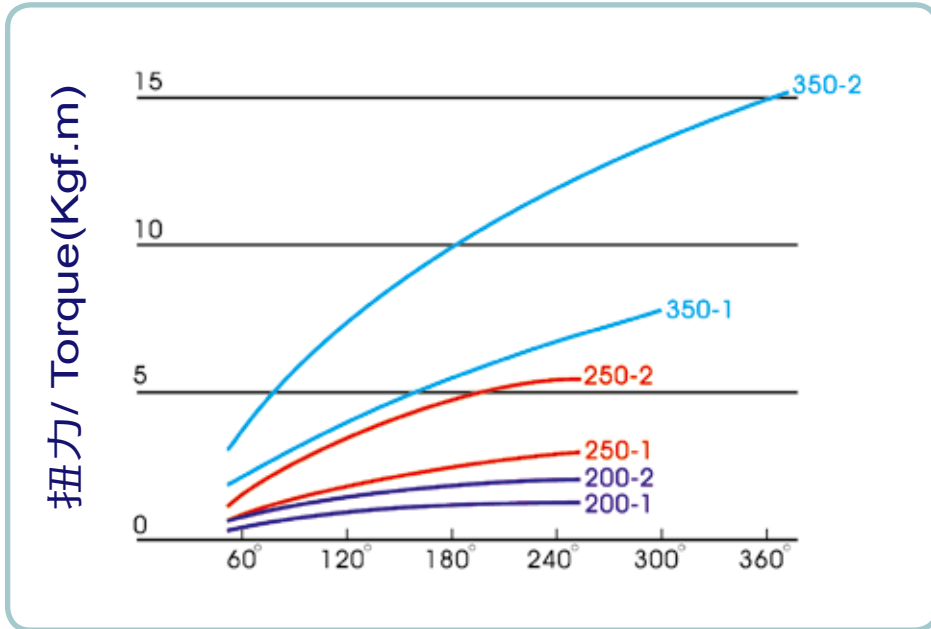
1. 中心構件之磨擦面必須研磨加工以得額定之扭力，並成為平坦、平行，與內徑相垂直，不含任何灰塵，銹皮或油污為宜。
The friction surface of central member must be polished to gain the rated torque to provide flatness, parallel and perpendicularity to inside diameter, and to retain freed from dust, burr or oil.
2. 內環之選擇不可大於中心構件的寬度，中心構件最大厚度見表中之S尺寸。
The inner ring is no greater than the width of central member. Please refer to the S dimension in the table to seek for the max. thickness of central part.

磨擦式扭力限制器

Friction Type of Torque Limiter

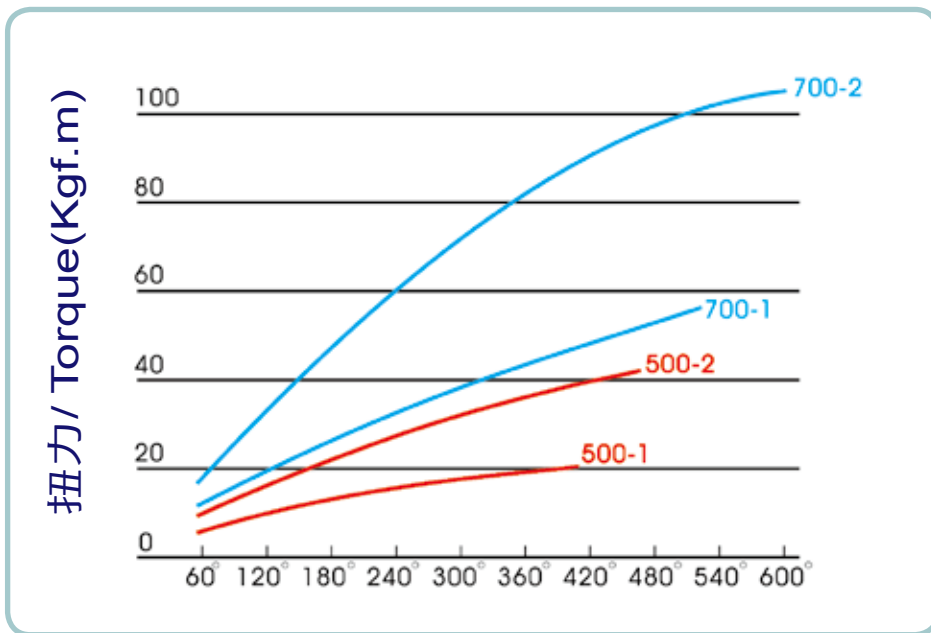
扭力值與鎖緊螺帽調整關係圖

Torque Value to Nut Packing Adjustment



SS200 - SS350 鎖緊螺帽調整角度

Nut Packing Adjustable Angle for SS200 - SS350



SS500 - SS700 鎖緊螺帽調整角度

Nut Packing Adjustable Angle for SS500 - SS700