

SBT 螺栓拉伸器

- 通用ANSI, API 法蘭均可適用。
- 質輕易攜帶。
- 可快速取出架橋、六角筒, 便於工作替換。
- 鍍鎳保護, 延長使用壽命。
- 強化油封設計增強可靠度。
- 維修簡易、方便。

Hydraulic Bolt Tensioner

- ※Fit all Standard flanges including ANSI and API Flanges.
- ※Lightweight and easily handled design.
- ※Quick-Release bridge and Hex. Socket design-for fast change over.
- ※Electro-less nickel plating prolongs tool life and reduces on-the-job maintenance.
- ※Improved seal design offer increased reliability.
- ※Simple and easy to maintain.

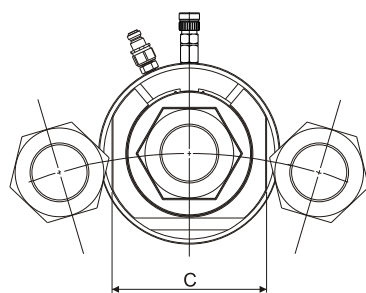
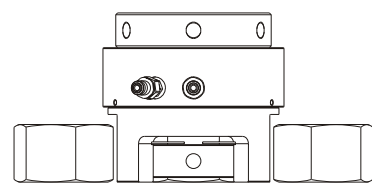
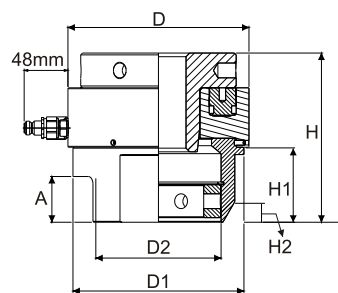
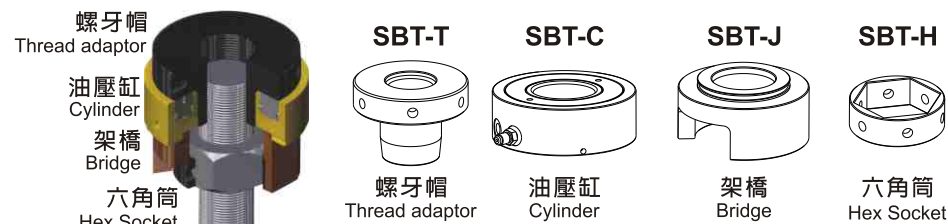
SBT Series

Capacity:
30-465 ton

Stroke:
8-10mm

Bolt Range:
M20-M150
3/4"-5-3/4"

Maximum Operating Pressure:
1500 bar



型號 Model	SBT-20	SBT-35	SBT-50	SBT-60	SBT-90	SBT-130	SBT-160	SBT-200	SBT-250	SBT-310	
螺栓尺寸 Bolt dimension (φ *pitch)	公制 Metric	M20*2.5	M27*3	M36*4	M42*4.5	M45*4.5	M60*5.5	M72*6	M80*6	M100*6	M125*6
		M22*2.5	M30*3.5	M39*4	M45*4.5	M48*5	M64*6	M76*6	M85*6	M110*6	M130*6
		M24*3	M33*3.5	M42*4.5	M48*5	M52*5	M68*6	M80*6	M90*6	M120*6	M140*6
		M27*3	M36*4	M45*4.5	M52*5	M56*5.5	M72*6	M95*6	M125*6	M150*6	
螺牙尺寸 Threads (φ in-)	英制 imperial	3/4"-10	1"-8	1-3/8"-6	1-1/2"-6	1-3/4"-5	2-1/2"-4	2-3/4"-4	3-1/4"-4	3-3/4"-4	5"-4
		7/8"-9	1-1/8"-7	1-1/2"-6	1-3/4"-5	2"-4-1/2	2-3/4"-4	3"-4	3-1/2"-4	4"-4	5-1/4"-4
		1"-8	1-1/4"-7	1-3/4"-5	2"-4-1/2	2-1/4"-4-1/2			3-3/4"-4	4-1/4"-4	5-1/2"-4
			1-3/8"-6							4-1/2"-4	5-3/4"-4
最大壓力 Max. Pressure	(bar) 1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	
油壓面積 Hydraulic area	(cm ²) 20	35	50	60	90	130	160	200	250	310	
最大油壓荷重 Max. hydraulic load	(kN) 300	525	750	900	1350	1950	2400	3000	3750	4650	
揚程 Piston stroke	(mm) 8	8	8	8	8	8	10	10	10	10	
D (mm)	86	109	128	144	170	198	220	244	300	340	
H (mm)	105	116	128	140	154	185	190	203	235	268	
H1 (mm)	30	40	49	54	65	82	86	106	131	156	
H2 (mm)	5.2	5.2	10.39	10.39	13.86	22.52	22.52	22.52	22.52	32.52	
D1 (mm)	74	97	116	133	154	187	203	232	272	313	
D2 (mm)	56	73	90	102	114	137	145	180	223	260	
A (mm)	26	31	38	40	42	50	50	60	73	86	
C (mm)	66	83	100	118	134	167	175	210	253	293	
重量 Weight	(kg) 3	4.8	7.5	11	17.3	25	33	39	56	77	

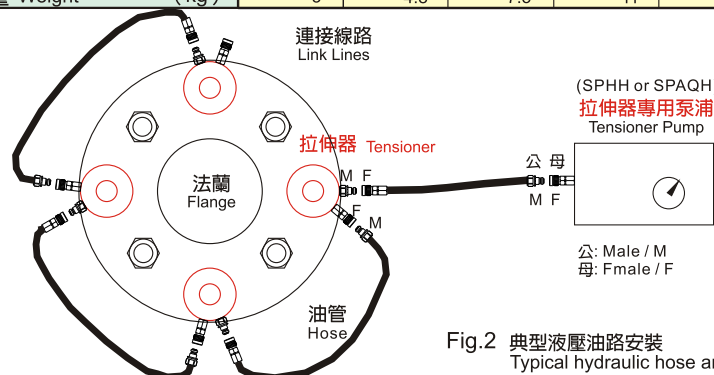


Fig.2 典型液壓油路安裝
Typical hydraulic hose arrangement



型號 Model	SBT-20	SBT-35	SBT-50	SBT-60	SBT-90	SBT-130	SBT-160	SBT-200	SBT-250	SBT-310											
換算表 Chart	psi	bar	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	
	1000	69	3100	14	5425	24	7750	34	9300	41	13950	62	20150	90	24800	110	31000	138	38750	172	48050
	2000	138	6200	28	10850	48	15500	69	18600	83	27900	124	40300	179	49600	221	62000	276	77500	345	96100
	3000	207	9300	41	16275	72	23250	103	27900	124	41850	186	60450	269	74400	331	93000	414	116250	517	144150
	4000	276	12400	55	21700	97	31000	138	37200	165	55800	248	80600	359	99200	441	124000	552	155000	689	192200
	5000	345	15500	69	27125	121	38750	172	46500	207	69750	310	100750	448	124000	552	155000	689	193750	862	240250
	6000	414	18600	83	32550	145	46500	207	55800	248	83700	372	120900	538	148800	662	186000	827	232500	1034	288300
	7000	483	21700	97	37975	169	54250	241	65100	290	97650	434	141050	627	173600	772	217000	965	271250	1207	336350
	8000	552	24800	110	43400	193	62000	276	74400	331	111600	496	161200	717	198400	883	248000	1103	310000	1379	384400
	9000	621	27900	124	48825	217	69750	310	83700	372	125550	558	181350	807	223200	993	279000	1241	348750	1551	432450
	10000	689	31000	138	54250	241	77500	345	93000	414	139500	621	201500	896	248000	1103	310000	1379	387500	1724	480500
	11000	758	34100	152	59675	265	85250	379	102300	455	153450	683	221650	986	272800	1213	341000	1517	426250	1896	528550
	12000	827	37200	165	65100	290	93000	414	111600	496	167400	745	241800	1076	297600	1324	372000	1655	465000	2068	576600
	13000	896	40300	179	70525	314	100750	448	120900	538	181350	807	261950	1165	322400	1434	403000	1793	503750	2241	624650
	14000	965	43400	193	75950	338	108500	483	130200	579	195300	869	282100	1255	347200	1544	434000	1931	542500	2413	672700
	15000	1034	46500	207	81375	362	116250	517	139500	621	209250	931	302250	1344	372000	1655	465000	2068	581250	2586	720750
	16000	1103	49600	221	86800	386	124000	552	148800	662	223200	993	322400	1434	396800	1765	496000	2206	620000	2758	768800
	17000	1172	52700	234	92225	410	131750	586	158100	703	237150	1055	342550	1524	421600	1875	527000	2344	658750	2930	816850
	18000	1241	55800	248	97650	434	139500	621	167400	745	251100	1117	362700	1613	446400	1986	558000	2482	697500	3103	864900
	19000	1310	58900	262	103075	459	147250	655	176700	826	265050	1179	382850	1703	471200	2096	589000	2620	736250	3275	912950
	20000	1379	62000	276	108500	483	155000	689	186000	787	279000	1241	403000	1793	496000	2206	620000	2758	775000	3447	961000
	21000	1448	65100	290	113925	507	162750	724	195300	869	292950	1303	423150	1882	520800	2317	651000	2896	813750	3620	1009050
	22000	1517	68200	303	119350	531	170500	758	204600	910	306900	1365	443300	1972	545600	2427	682000	3034	852500	3792	1057100

公制螺栓及六角對邊對照 Metric Bolt

螺紋 Bolt	M	6	8	10	12	14	16	18	20	22	24	27	30	33	36	39	42	45	48	52	56	60	64	68
六角對邊 Hexagon	mm	10	13	17	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75	80	85	90	95	100
厚度 Thickness	mm	5	6.5	8	10	11	13	15	16	18	19	22	24	26	29	31	34	36	38	42	45	48	51	54

螺紋 Bolt	M	72	76	80	85	90	95	100	105	110	115	120	125	130	140	150
六角對邊 Hexagon	mm	105	110	115	120	130	135	145	150	155	165	170	180	185	200	210
厚度 Thickness	mm	58	61	64		72		84								

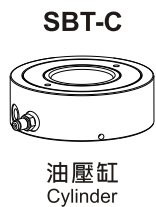
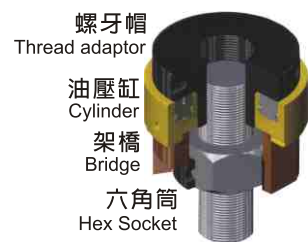
英制螺栓及六角對邊對照 Imperial Bolt

螺紋 Bolt		3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2
六角對邊 hexagon	mm	17	22	27	32	36	41	46	50	55	60	65	70	75	80
厚度 Thickness	mm	9.5	12.5	15.8	19	22	25	28	32	35	38	41	44	47	50
六角對邊 Hexagon	in	11/16	7/8	1-1/16	1 1/4	1 7/16	1 5/8	1 13/16	2	2 3/16	2 3/8	2 9/16	2 3/4	2 15/16	3 1/8
厚度 Thickness	in	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2

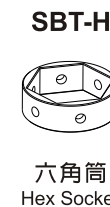
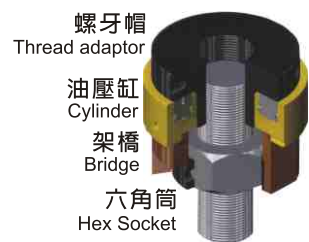
螺紋 Bolt		2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2
六角對邊 Hexagon	mm	90	100	108	118	127	137	146	156	165	175	184	194	203	213
厚度 Thickness	mm	57	63	70	76										
六角對邊 Hexagon	in	3 1/2	3 7/8	4 1/4	4 5/8	5	5 3/8	5 3/4	6 1/8	6 1/2	6 7/8	7 1/4	7 5/8	8	8 3/8
厚度 Thickness	in	2 1/4	2 1/2	2 3/4	3										

螺紋 Bolt		5 3/4	6
六角對邊 Hexagon	mm	222	232
厚度 Thickness	mm		
六角對邊 Hexagon	in	8 3/4	9 1/8
厚度 Thickness	in		

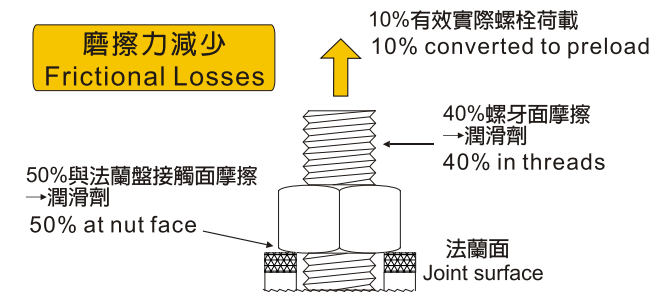
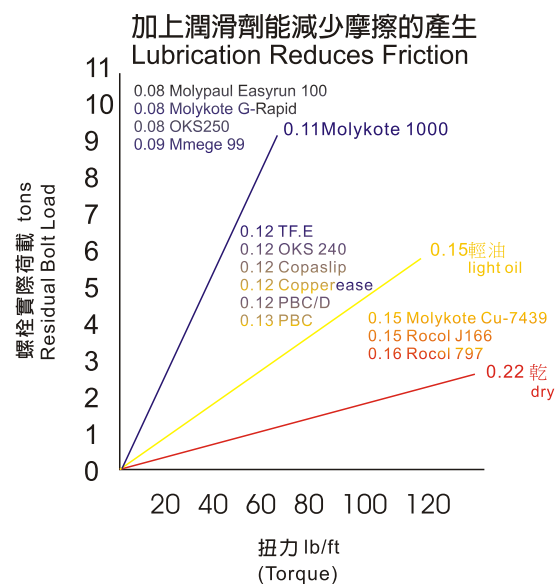




型號 Model Number	螺栓尺寸 Bolt dimension	油壓缸型號 Cylinder Model	架橋型號 Bridge Model	螺牙帽型號 Thread adaptor Model	六角筒型號 Hex. Socket Model
SBT-20 M20-2.5	M20*2.5	SBT-20C	SBT-20J	SBT-20T M20-2.5	SBT-20H 30
SBT-20 M22-2.5	M22*2.5			SBT-20T M22-2.5	SBT-20H 32
SBT-20 M24-3	M24*3			SBT-20T M24-3	SBT-20H 36
SBT-20 M27-3	M27*3			SBT-20T M27-3	SBT-20H 41
SBT-20 3/4"-10	3/4"-10			SBT-20T 3/4"-10	SBT-20H 32
SBT-20 7/8"-9	7/8"-9			SBT-20T 7/8"-9	SBT-20H 36
SBT-20 1"-8	1"-8			SBT-20T 1"-8	SBT-20H 41
SBT-20 1-1/8"-7	1-1/8"-7			SBT-20T 1-1/8"-7	SBT-20H 46
SBT-35 M27-3	M27*3	SBT-35C	SBT-35J	SBT-35T M27-3	SBT-35H 41
SBT-35 M30-3.5	30*3.5			SBT-35T M30-3.5	SBT-35H 46
SBT-35 M33-3.5	M33*3.5			SBT-35T M33-3.5	SBT-35H 50
SBT-35 M36-4	M36*4			SBT-35T M36-4	SBT-35H 55
SBT-35 1"-8	1"-8			SBT-35T 1"-8	SBT-35H 41
SBT-35 1-1/8"-7	1-1/8"-7			SBT-35T 1-1/8"-7	SBT-35H 46
SBT-35 1-1/4"-7	1-1/4"-7			SBT-35T 1-1/4"-7	SBT-35H 50
SBT-35 1-3/8"-6	1-3/8"-6			SBT-35T 1-3/8"-6	SBT-35H 55
SBT-50 M36-4	M36*4	SBT-50C	SBT-50J	SBT-50T M36-4	SBT-50H 55
SBT-50 M39-4	M39*4			SBT-50T M39-4	SBT-50H 60
SBT-50 M42-4.5	M42*4.5			SBT-50T M42-4.5	SBT-50H 65
SBT-50 M45-4.5	M45*4.5			SBT-50T M45-4.5	SBT-50H 70
SBT-50 1-3/8"-6	1-3/8"-6			SBT-50T1-3/8"-6	SBT-50H 55
SBT-50 1-1/2"-6	1-1/2"-6			SBT-50T 1-1/2"-6	SBT-50H 60
SBT-50 1-3/4"-5	1-3/4"-5			SBT-50T 1-3/4"-5	SBT-50H 70
SBT-60 M42-4.5	M42*4.5			SBT-60C	SBT-60J
SBT-60 M45-4.5	M45*4.5	SBT-60T M45-4.5	SBT-60H 70		
SBT-60 M48-5	M48*5	SBT-60T M48-5	SBT-60H 75		
SBT-60 M52-5	M52*5	SBT-60T M52-5	SBT-60H 80		
SBT-60 1-1/2"-6	1-1/2"-6	SBT-60T 1-1/2"-6	SBT-60H 60		
SBT-60 1-3/4"-5	1-3/4"-5	SBT-60T 1-3/4"-5	SBT-60H 70		
SBT-60 2"-4.5	2"-4.5	SBT-60T 2"-4.5	SBT-60H 80		
SBT-90 M45-4.5	M45*4.5	SBT-90C	SBT-90C		
SBT-90 M48-5	M48*5			SBT-90T M48-5	SBT-90H 75
SBT-90 M52-5	M52*5			SBT-90T M52-5	SBT-90H 80
SBT-90 M56-5.5	M56*5.5			SBT-90T M56-5.5	SBT-90H 85
SBT-90 M60-5.5	M60*5.5			SBT-90T M60-5.5	SBT-90H 90
SBT-90 1-3/4"-5	1-3/4"-5			SBT-90T 1-3/4"-5	SBT-90H 70
SBT-90 2"-4.5	2"-4.5			SBT-90T 2"-4.5	SBT-90H 80
SBT-90 2-1/4"-4.5	2-1/4"-4.5			SBT-90T 2-1/4"-4.5	SBT-90H 90
SBT-130 M60-5.5	M60*5.5	SBT-130C	SBT-130J	SBT-130T M60-5.5	SBT-130H 90
SBT-130 M64-6	M64*6			SBT-130T M64-6	SBT-130H 95
SBT-130 M68-6	M68*6			SBT-130T M68-6	SBT-130H 100
SBT-130 M72-6	M72*6			SBT-130T M72-6	SBT-130H 105
SBT-130 M76-6	M76*6			SBT-130T M76-6	SBT-130H 110
SBT-130 2-1/2"-4	2-1/2"-4			SBT-130T 2-1/2"-4	SBT-130H 100
SBT-130 2-3/4"-4	2-3/4"-4			SBT-130T 2-3/4"-4	SBT-130H 108
SBT-160 M72-6	M72*6			SBT-160C	SBT-160J
SBT-160 M76-6	M76*6	SBT-160T M76-6	SBT-160H 110		
SBT-160 M80-6	M80*6	SBT-160T M80-6	SBT-160H 115		
SBT-160 2-3/4"-4	2-3/4"-4	SBT-160T 2-3/4"-4	SBT-160H 108		
SBT-160 3"-4	3"-4	SBT-160T 3"-4	SBT-160H 118		



型號 Model Number	螺栓尺寸 Bolt dimension	油壓缸型號 Cylinder Model	架橋型號 Bridge Model	螺牙帽型號 Thread adaptor Model	六角筒型號 Hex. Socket Model		
SBT-200 M80-6	M80*6	SBT-200C	SBT-200J	SBT-200T M80-6	SBT-200H 115		
SBT-200 M85-6	M85*6			SBT-200T M85-6	SBT-200H 120		
SBT-200 M90-6	M90*6			SBT-200T M90-6	SBT-200H 130		
SBT-200 M95-6	M95*6			SBT-200T M95-6	SBT-200H 135		
SBT-200 M100-6	M100*6			SBT-200T M100-6	SBT-200H 145		
SBT-200 3-1/4"-4	3-1/4"-4			SBT-200T 3-1/4"-4	SBT-200H 127		
SBT-200 3-1/2"-4	3-1/2"-4			SBT-200T 3-1/2"-4	SBT-200H 137		
SBT-200 3-3/4"-4	3-3/4"-4			SBT-200T 3-3/4"-4	SBT-200H 146		
SBT-250 M100-6	M100*6			SBT-250C	SBT-250J	SBT-250T M100-6	SBT-250H 145
SBT-250 M110-6	M110*6					SBT-250T M110-6	SBT-250H 155
SBT-250 M120-6	M120*6	SBT-250T M120-6	SBT-250H 170				
SBT-250 M125-6	M125*6	SBT-250T M125-6	SBT-250H 180				
SBT-250 3-3/4"-4	3-3/4"-4	SBT-250T 3-3/4"-4	SBT-250H 146				
SBT-250 4"-4	4"-4	SBT-250T 4"-4	SBT-250H 156				
SBT-250 4-1/4"-4	4-1/4"-4	SBT-250T 4-1/4"-4	SBT-250H 165				
SBT-250 4-1/2"-4	4-1/2"-4	SBT-250T 4-1/2"-4	SBT-250H 175				
SBT-250 4-3/4"-4	4-3/4"-4	SBT-250T 4-3/4"-4	SBT-250H 184				
SBT-310 M125-6	M125*6	SBT-310C	SBT-310J			SBT-310T M125-6	SBT-310H 180
SBT-310 M130-6	M130*6			SBT-310T M130-6	SBT-310H 185		
SBT-310 M140-6	M140*6			SBT-310T M140-6	SBT-310H 200		
SBT-310 M150-6	M150*6			SBT-310T M150-6	SBT-310H 210		
SBT-310 5"-4	5"-4			SBT-310T 5"-4	SBT-310H 194		
SBT-310 5-1/4"-4	5-1/4"-4			SBT-310T 5-1/4"-4	SBT-310H 203		
SBT-310 5-1/2"-4	5-1/2"-4			SBT-310T 5-1/2"-4	SBT-310H 213		
SBT-310 5-3/4"-4	5-3/4"-4			SBT-310T 5-3/4"-4	SBT-310H 222		



- 加潤滑劑的優點**
Advantages of Lubrication
1. 減少摩擦力。 (Reduces the friction during tightening.)
 2. 增加螺栓使用壽命。 (Increases bolt service life.)
 3. 裝置螺栓的成功率提高。 (Decreases bolt failure during installation.)
 4. 提高扭矩轉換率。 (Higher friction results in less conversion of torque to preload.)