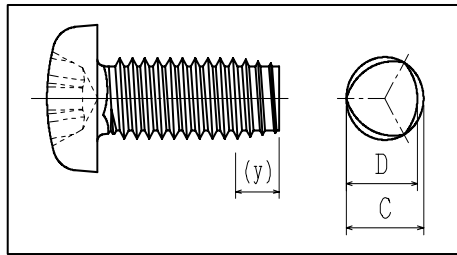


Selftapping Screw for metal

S-TITE[®]

Trirobular boby
60 degree included angle of thread



* Basic head configuration for screws with nominal diameter 2.0mm and over (#1 recessed) shall conform to JIS B 1122 appendix.

* Truss head screw with 3.0mm of nominal diameter shall have #1 cross recessed.

* Basic head configuration for screws with 1.4 to 2.0mm of nominal diameter (#0 recessed) shall conform to Japan Camera Industry Standard (JCIS).

[Unit : mm]

Nominal dia.			1.4	1.7	2.0	2.0	2.6	3.0	4.0	5.0
Cross recess No.			0	0	0	1	1	2	2	2
Pitch	P		0.30	0.35	0.40	0.40	0.45	0.50	0.70	0.80
Major diameter	C	Max.	1.43	1.73	2.04	2.04	2.65	3.05	4.07	5.08
		Min.	1.37	1.67	1.96	1.96	2.57	2.97	3.99	5.00
Major diameter	D	Max.	1.37	1.66	1.96	1.96	2.56	2.95	3.93	4.92
		Min.	1.31	1.60	1.88	1.88	2.48	2.87	3.85	4.84
Point diameter	C'	Max.				1.58	2.05	2.44	3.27	4.17
		Min.				1.44	1.88	2.24	3.07	3.87
Guide Length	Y	Max.				1.80	2.10	2.30	3.20	3.60
		Min.				1.40	1.50	1.70	2.40	2.80
Break torque	[N.m]	Min.	0.10	0.22	0.40	0.44	1.17	1.76	4.11	8.62
Tensile strength	[N]	Min.	430	760	1,060	1,370	2,450	3,330	5,780	9,400

*Torsional stripping torque shall be 150% of breaking torque (reference). Please take note it changes according to friction coefficient.

*Point diameter C' and guide length Y should be just reference data.

Proper Fastening condition of S-TITE for metal

Work piece : SPCC =372 Mpa (N/mm²) μ=0.13

Upper : Reference hole dia. (mm)

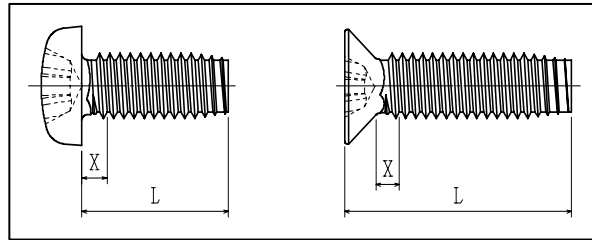
Lower : Reference fastening torque (Nm)

		Thread engage depth									
		0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.2	4.0
Nominal dia. (d)	1.4	1.20	1.21	1.22	1.24	1.26					
		0.06 ~ 0.10	0.06 ~ 0.12	0.09 ~ 0.15	0.11 ~ 0.18	0.11 ~ 0.19					
	1.7	1.48	1.49	1.51	1.52	1.53					
		0.08 ~ 0.13	0.09 ~ 0.17	0.12 ~ 0.21	0.14 ~ 0.25	0.17 ~ 0.30					
	2.0			1.76	1.78	1.80	1.83	1.85			
				0.15 ~ 0.29	0.21 ~ 0.39	0.24 ~ 0.43	0.27 ~ 0.50	0.35 ~ 0.53			
	2.6			2.33	2.34	2.36	2.38	2.41	2.43	2.46	
				0.32 ~ 0.59	0.39 ~ 0.70	0.47 ~ 0.77	0.57 ~ 0.92	0.66 ~ 0.99	0.75 ~ 1.29	0.75 ~ 1.26	
	3.0			2.70	2.72	2.74	2.76	2.78	2.81	2.86	2.86
				0.42 ~ 0.78	0.53 ~ 0.92	0.60 ~ 1.02	0.75 ~ 1.21	0.84 ~ 1.51	0.96 ~ 1.66	0.95 ~ 1.63	1.18 ~ 2.03
	4.0			3.61	3.64	3.67	3.71	3.75	3.78	3.81	3.83
				0.75 ~ 1.33	0.90 ~ 1.55	1.00 ~ 1.70	1.28 ~ 2.00	1.44 ~ 2.11	1.61 ~ 2.74	1.97 ~ 2.67	1.98 ~ 3.34
	5.0			4.57	4.62	4.64	4.66	4.71	4.77	4.80	4.81
				1.17 ~ 2.13	1.39 ~ 2.27	1.55 ~ 2.73	2.07 ~ 3.21	2.33 ~ 3.40	2.59 ~ 3.50	2.57 ~ 4.31	3.21 ~ 5.39

*General tolerance of pilot hole shall be +0.03/-0.03.

*Data of hole size and fastening torque are just for your reference. You should be checked by actual test.

Precision S-TITE® Length table



[Unit : mm]

Shank length L		Nominal dia. (Plain sheared end)		
Std.	Tol.	1.4	1.7	2.0
2.0	0 -0.2	O*	O*	
2.5		O	O	O*
3.0		O	O	O
3.5	0 -0.3	O	O	O
4.0		O	O	O
4.5		O	O	O
5.0		O	O	O
5.5			O	O
6.0			O	O
8.0				O
10.0				

[Unit : mm]

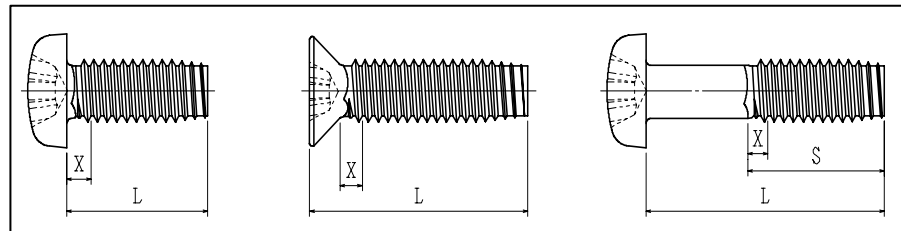
Shank length L		Nominal dia. (With tapered Guide)		
Std.	Tol.	1.4	1.7	2.0
2.0	0 -0.3	O*		
2.5		O*	O*	
3.0		O	O	O*
3.5	0 -0.4	O	O	O
4.0		O	O	O
4.5		O	O	O
5.0		O	O	O
5.5			O	O
6.0			O	O
8.0				O
10.0				

* Symbol * doesn't apply to flat countersunk head

* Incompleted thread length X shall be less than 2 pitches.

* Other length is available but not recommended.

S-TITE® Length table



[Unit : mm]

Shank length L	Nominal dia.				
Std.	2.0	2.6	3.0	4.0	5.0
4	O				
5	O	O*	O*		
6	O	O	O*	O*	
8	O	O	O	O	O*
10	O	O	O	O	O*
12	O	O	O	O	O
14	(8)	O	O	O	O
16	(10)	(13)	O	O	O
20	(12)	(14)	(14)	O	O
25			(16)	(17)	O
30			(16)	(22)	(20)
35				(22)	(25)
40				(22)	(20)
50					(25)

* Other length is available but not recommended.

* Symbol O means full thread. Data indicated in () means threaded length (S).

* Symbol * doesn't apply to flat countersunk head

* Incompleted thread length X shall be less than 2 pitches.

* Tolerance at half thread shall be 3 pitches / 0.

Shank length & Tolerance	
16 >= L	0 -0.8
16 < L <= 36	0 -1.2
36 < L	0 -1.6