



STTE terminal
Eye (Closed)



STTF terminal
Fork (Open)



STTT terminal
Threaded swage
terminal



STTT-R terminal
Reinforced threaded
swage terminal

7.1 STT STEEL TERMINALS TALURIT® SYSTEM

GENERAL DESCRIPTION

The STT swage terminals are validated according to the TALURIT® system for mechanical splicing. Swage terminals are made from special fine grain carbon steel, having excellent mechanical properties by our special treatment for cold swaging.

The STT swage terminals have an efficiency rating of more than the required 90% of MBL according to the type testing requirement of the standard EN 13411-8, which also includes fatigue testing. In many cases and by ordinary break tests it is common to reach 100% based on the catalogue strength of the wire rope.

The STT-system is designed for compatibility of the die sets. Regardless of the type (fork, eye or thread), the same sized terminals will be swaged in the same die set.

APPLICATIONS

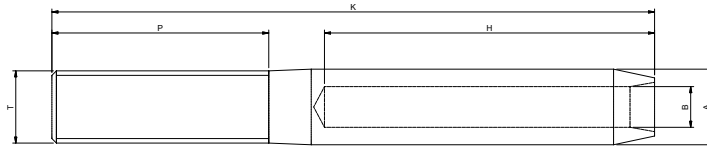
Swage terminals or sockets have a wide range of applications from stay wires in bridges to crane ropes and pendant lines. As per the TALURIT system validation, we can offer a range that is also suitable for many types of special wire ropes with high tensile grades.

TO BE NOTED

Swage terminals are not recommended for use on fibre core wire ropes.

TALURIT® SPLICING SYSTEM

Dimensions of STTT-R – reinforced threaded swage terminals



Terminal information								
Part No.	Dimensions (mm)						Thread breaking load approx.	Weight each, approx.
STTT-R	A	B	K	H	P	T	kN	kg
1/4	12,6	6,9	104,5	54,0	40,0	M12	40	0,1
5/16	19,6	8,6	152,3	81,0	56,0	M16	80	0,3
3/8	19,6	10,3	161,2	81,0	64,0	M18	95	0,3
7/16	24,9	12,3	191,2	108,0	64,0	M20	120	0,5
1/2	24,9	13,9	209,0	108,0	80,0	M24	175	0,6
9/16	31,9	15,5	256,8	134,9	96,0	M27	230	1,2
5/8	31,9	17,1	270,1	134,9	108,0	M30	280	1,3
3/4	39,2	20,2	313,5	161,9	120,0	M36	410	2,3
7/8	43,2	23,8	343,5	188,9	120,0	M42	560	3,1
1	50,2	27,0	400,2	215,9	144,0	M48	740	4,9
1-1/8	57,0	30,2	456,9	242,9	168,0	M56	1020	7,4
1-1/4	64,1	33,7	513,6	269,9	192,0	M60	1190	10,2
1-3/8	71,1	36,9	579,2	296,9	224,0	M64	1350	13,8
1-1/2	78,1	40,1	609,2	323,9	224,0	M72	1750	17,8
1-3/4	86,0	47,2	704,8	377,8	256,0	M80	2200	24,4
2	99,9	53,6	800,4	431,8	288,0	M90	2850	36,9
2-1/4	113,0	59,9	896,0	485,8	320,0	M100	3570	52,3
2-1/2	125,2	67,5	954,6	498,5	360,0	M110	4375	67,6
3	151,4	80,4	1115,6	603,3	400,0	M130	6230	114,3

Please note that these instructions are only applicable to products produced and supplied by Talurit Group!



STTT-R

Dies are marked: STT

STTT-R

Wire rope terminations will not be adversely affected by temperatures between -40°C - 150°C.

Swage terminals properly applied have an efficiency rating of more than 90% according to EN 13411-8. This rating is based on the catalogue strength of wire rope. In many cases and by ordinary brake tests it is common to reach 100% based on the catalogue strength of the wire rope.

This terminal is normally used in supporting load applications with requirements of high-performance ropes, grade 2160.

Material: TALURIT Steel, fine grain. Special treatment for cold swaging.

Dimensions: Above dimensions are the tested ones.

Applicable rope grade: Maximum rope grade is 2160.

NOTE! Due to the variety of steel wire ropes, it is difficult to approve all of them. Contact our Technical Department for more advice.

TALURIT® SPLICING SYSTEM

Selection table for STTE, STTF, STTT and STTT-R – swage terminals

Terminal	Measured Wire Rope Diameter Range (mm)		Die ID	Quality control after swaging							Force
Part No.	Fill Factor $0,58 \leq f \leq 0,78$		Dies marked	Diameter after swaging		Key width after swaging		Total length after swaging approx.			Required force, approx.
STTE STTF STTT STTT-R	Min	Max	STT	mm	Tol.	mm	Tol.	mm	mm	mm	kN
1/4	5,8	6,7	1/4	11,2	+0,4 0	10,7	+0,4 0	118	127	111	1 000
5/16	6,8	8,3	3/8	17,5		16,6		149	169	162	2 000
3/8	8,4	10,0	3/8	17,5		16,6		149	169	171	2 000
7/16	10,1	11,7	1/2	22,4		21,3		189	211	204	3 000
1/2	11,8	13,3	1/2	22,4	+0,5 0	21,3	+0,5 0	189	211	222	3 000
9/16	13,4	15,0	5/8	28,4		27,0		239	259	273	4 000
5/8	15,1	16,7	5/8	28,4		27,0		239	259	286	4 000
3/4	16,8	19,8	3/4	35,1		33,4		283	316	333	5 000
7/8	19,9	23,3	7/8	38,1	+0,7 0	36,3	+0,7 0	331	369	366	7 000
1	23,4	26,6	1	44,5		42,4		375	423	426	8 500
1 1/8	26,7	29,8	1 1/8	50,8		48,4		417	474	486	10 000
1 1/4	29,9	33,3	1 1/4	57,2		54,5		471	526	546	13 000
1 3/8	33,4	36,5	1 3/8	63,5		60,5		515	575	615	14 000
1 1/2	36,6	39,7	1 1/2	69,9		66,6		556	630	648	15 000
1 3/4	39,8	46,7	1 3/4	76,2	+0,9 0	72,6	+0,9 0	655	734	750	16 000
2	46,8	53,2	2	88,9		84,7		750	850	852	17 000
2 1/4	54,0	59,4	2 1/4	101,2		96,4		814	893	954	20 000
2 1/2	60,0	66,7	2 1/2	111,4		106,1		850	939	1014	24 000
3	72,0	80,0	3	134,0		127,6		1031	1117	1188	28 000

Please note that these instructions are only applicable to products produced and supplied by Talurit Group!



STTE



STTF



STTT



STTT-R

STTE, STTF, STTT and STTT-R swage terminals:

The STTE, STTF, STTT and STTT-R swage terminals have been validated according to TALURIT® splicing system and fulfil the requirements of EN 13411-8. This includes fatigue testing.

Wire Rope:

- Tested class is 8x19, fill factor 0,74, rope grade 2160
- Tested class is 8x26, fill factor 0,75, rope grade 2160
- Tested class is 6x19, fill factor 0,8, rope grade 2160
- Tested class is 6x36 (IWRC), fill factor 0,58, rope grade 2160
- Tested class is 35x7, fill factor 0,77, rope grade 2160
- Special wire ropes tested: ROPETEX Perform 35C, ROPETEX Perform 8CP, Verotop E, Veropower 8, Veropro 8, Verotech 10, Eurolift, Flexipack, Flatten 8P

Not recommended for use on fibre core wire ropes. Maximum rope grade is to be 2160 for STTE, STTF and STTT-R. For STTT, maximum rope grade is to be 1960. Wire rope shall conform to EN 12385-4, -5 and -10.

Swaging:

Follow the specific swaging procedure regarding STTE, STTF, STTT and STTT-R. And make sure to check the diameter after swaging.

NOTE!

Due to the variety of steel wire ropes, it is difficult to approve all of them. Verifying tests must be performed in order to verify the strength of application. Steel wire rope with a fibre core has not been tested. Contact our Technical Department for more advice. Please read our TALURIT® Splicing Instructions carefully to secure a safe and correct swaging operation.



IMPORTANT!

Wire rope inside the swage terminal shall not be annealed, but cut by a disc or blade!