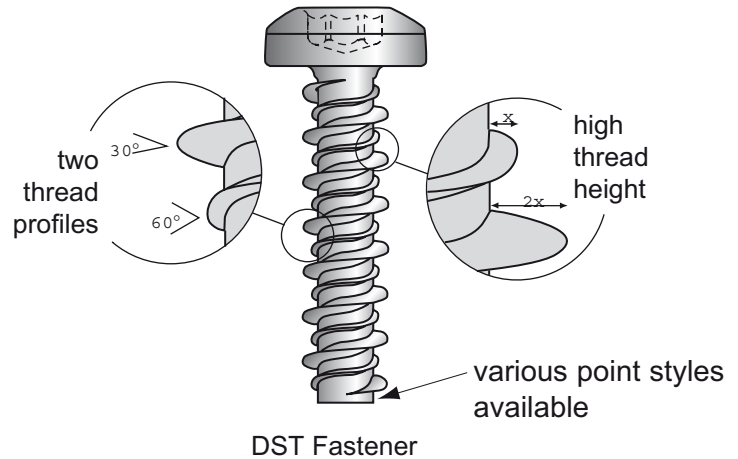


# DST THREAD-FORMING FASTENERS

The high thread height and wide thread spacing of the DST (Dual-Spaced Thread) fastener allows increased thread engagement in softer thermoplastics, increasing resistance to pull-out and improving product performance.



## SPECIFICATIONS

Sizes • #2 to 5/16 (M2.5 – M8.0)  
Head Styles • Pan, hex, flat, oval, hex washer  
Point Styles • Blunt, gimlet, pilot  
Drive Systems • Can use any system, including TORX PLUS® Drive

## APPLICATIONS

Thermoplastics with a flexural modulus up to 600,000 p.s.i.

## KEY ADVANTAGES

- Performs well in softer thermoplastics

## FEATURES & BENEFITS

High thread with a 30° flank angle to reduce radial stress in the boss

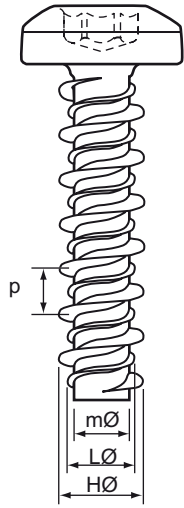
- Requires lower driving torque
- Reduces cracking of boss
- Allows use of smaller bosses

Smaller minor diameter than standard screws allows greater shear area

- Increases thread engagement
- Increases resistance to pull-out

Shank slot for thread-cutting can be added. Please contact an Infastech applications engineer for appropriate dimensional information.

# DST THREAD-FORMING FASTENERS



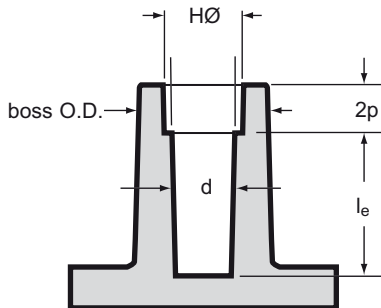
## DIMENSIONAL DATA – INCH

Screw Size	p Thd. Pitch (per in.)	HØ High Thd. Dia.	LØ Low Thd. Dia.	mØ Ref. Minor Dia.
#5	20	.119 - .125	.100	.073
#6	19	.135 - .145	.108	.080
#7	19	.148 - .158	.130	.090
#8	18	.160 - .170	.130	.095
#10	16	.185 - .195	.145	.105
#12	16	.210 - .220	.167	.125
#13	16	.220 - .230	.180	.132
1/4"	15	.250 - .260	.200	.165
9/32"	16	.275 - .285	.230	.188
5/16"	14	.307 - .317	.250	.208

## DIMENSIONAL DATA – METRIC

Screw Size	p Thd. Pitch	HØ High Thd. Dia.	LØ Low Thd. Dia.	mØ Ref. Minor Dia.
3.5	1.34	3.43 - 3.68	2.74	2.0
4.0	1.34	3.76 - 4.01	3.30	2.3
4.2	1.41	4.06 - 4.32	3.30	2.4
4.8	1.59	4.70 - 4.95	3.68	2.6
5.3	1.59	5.03 - 5.33	3.81	2.9
5.5	1.59	5.33 - 5.59	4.24	3.5
6.0	1.59	5.84 - 6.10	4.83	3.7
6.3	1.69	6.35 - 6.60	5.08	4.2
7.2	1.59	6.98 - 7.24	5.84	4.8
7.5	1.59	7.24 - 7.49	6.10	5.1
8.0	1.81	7.80 - 6.35	6.35	5.3

## BOSS DESIGN RECOMMENDATIONS



The recommended hole size (d) can be found in the chart to the right.

The length of engagement ( $l_e$ ) should be 3 times the high thread diameter (see chart above).

Counterbore depth is 1 to 2 times the thread pitch length (see chart above). Counterbore depth is equal to the high thread diameter ( $HØ$ ).

The boss O.D. should be at least 2 times the high thread diameter.

## RECOMMENDED HOLE SIZES

Screw Size (inch)	Hole Size (d) (in)	Screw Size (metric)	Hole Size (d) (mm)
#5	.099	3.5	2.79
#6	.110	4.0	3.17
#7	.125	4.2	3.26
#8	.128	4.8	3.65
#10	.144	5.3	3.96
#12	.166	5.5	4.21
#13	.180	6.0	4.85
1/4"	.201	6.3	5.10
9/32"	.234	7.2	5.95
5/16"	.250	7.5	6.14
		8.0	6.35

NOTE: Recommended hole sizes for DST thread-cutting fasteners are not shown. Please contact an Infastech applications engineer for assistance.

