



FIRST DASH NO.	NOM. DIA.	A DIA.	B REF.	D DIA.	TD DIA.	F	H	R RAD.	Z MAX.	S CHAMFER REF.	THREAD	SOCKET			DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM
												W HEX.	T DEPTH	Y DIA.		
-5	5/32	.2612 .2564	.280	.1635 .1625	.1595 .1570	.004	.0410 .0390	.025 .015	.012	1/32" x 45°	8-32UNJC-3A Modified	.0801 .0791	.100 .080	7	4,010	1,290
-6	3/16	.3016 .2966	.290	.1895 .1885	.1840 .1810	.005	.0470 .0450	.030 .020	.015	1/32" x 45°	10-32UNJF-3A Modified	.0806 .0791	.100 .080	.119 .104	5,380	2,000
-8	1/4	.3948 .3898	.320	.2495 .2485	.2440 .2410	.006	.0610 .0590	.030 .020	.015	1/32" x 45°	1/4-28UNJF-3A Modified	.0967 .0947	.110 .090	.142 .122	9,300	3,700
-10	5/16	.4739 .4689	.380	.3120 .3110	.3060 .3020	.007	.0680 .0660	.040 .030	.015	3/64" x 45°	5/16-24UNJF-3A Modified	.1295 .1270	.130 .110	.180 .160	14,600	5,000
-12	3/8	.5604 .5554	.420	.3745 .3735	.3680 .3640	.008	.0780 .0760	.040 .030	.015	3/64" x 45°	3/8-24UNJF-3A Modified	.1617 .1582	.160 .140	.217 .197	21,000	7,200
-14	7/16	.6680 .6620	.485	.4370 .4360	.4310 .4260	.009	.0969 .0944	.050 .040	.022	3/64" x 45°	7/16-20UNJF-3A Modified	.1930 .1895	.190 .170	.253 .233	28,600	10,000
-16	1/2	.7540 .7480	.525	.4995 .4985	.4930 .4860	.010	.1068 .1043	.050 .040	.022	3/64" x 45°	1/2-20UNJF-3A Modified	.2242 .2207	.220 .200	.289 .269	37,300	13,500

SEE COLLAR STANDARDS FOR COLLAR STRENGTHS. LOWER STRENGTH PIN OR COLLAR DETERMINES SYSTEM STRENGTH.

THIS AREA OF SPECIAL CONFIGURATION AND COLD WORKING TO MEET PHYSICAL REQUIREMENTS.

VIEW A
HI-LITE THREAD TRANSITION AREA.
SEE SPECIFICATION FOR INSPECTION.

GENERAL NOTES:

- Head edge out of roundness shall not exceed "F".
- Concentricity: Conical surface of head to "D" diameter within .005 FIR.
- "H" dimensioned from maximum "D" diameter.
- Dimensions to be met after finish.
- Surface texture per ANSI B46.1.
- Hole preparation per NAS618.
- Evidence of broken edge across points.
- Curved or flat edge manufacturer's option.
- Non-lubed pins must be used with wet sealant or with lubed collars.
- Use HST119 for oversize replacement.

MATERIAL:

HEAT TREAT:

FINISH:

- Alloy steel per Spec. MIL-S-5000, MIL-S-5626, or MIL-S-6049.
 95,000 psi shear minimum (160,000-180,000 psi tensile per Spec. MIL-H-6876).
 HST19-() = Cadmium plate per QQ-P-416, Type I, Class 2, and cetyl alcohol lube per Hi-Shear Spec. 305.
 HST19HC-() = Cadmium plate per QQ-P-416, Type II, Class 2, and apply precoat No. PR1436G sealant (.002-.005 thick) plus cetyl alcohol lube per Hi-Shear Spec. 305.
 HST19PA-() = Cadmium plate per QQ-P-416, Type II, Class 2, color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
 HST19PB-() = Cadmium plate per QQ-P-416, Type II, Class 2, color bronze, and cetyl alcohol lube per Hi-Shear Spec. 305.

- HST19PN-() = Cadmium plate per QQ-P-416, Type II, Class 2.
 HST19TF-() = Cadmium plate per QQ-P-416, Type III, Class 2, and Hi-Kote 2 solid film lube per Hi-Shear Spec. 292.
 HST19TP-() = Cadmium plate per QQ-P-416, Type III, Class 2, Hi-Kote 2 solid film lube per Hi-Shear Spec. 292, color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION:

Hi-Lite Product Specification 380.

CODE: First dash number indicates nominal diameter in 1/32nds. Second dash number indicates maximum grip in 1/16ths. See finish note for explanation of code letters.

HOW TO ORDER EXAMPLES:

Pin Part Number Only
HST19 PB - 8 - 8
 — 8/16 or 1/2 Maximum Grip Length
 — 8/32 or 1/4 Nominal Diameter Pin
 — Type II Cadmium Plate, Color Bronze
 — Pin Part Number

Pin and Collar Assembly Part Number Combination
HST19 PB 79 - 8 - 8
 — Size and Grip Length, See Above Example
 — Collar Part Number
 — Pin Finish
 — Pin Part Number

U.S. Patents 4,326,825, 4,485,510 and 4,957,401. Other U.S. and foreign patents pending. "Hi-Lite" is a registered trademark, and "Hi-Lite ST" is a trademark of Hi-Shear Corporation.

DRAWN	DATE	TITLE
D. P. S.	9-10-82	HI-LITE[®] ST[™] PIN
APPROVED	DATE	100° FLUSH SHEAR HEAD
		ALLOY STEEL
		1/16" GRIP VARIATION
REVISION	DATE	DRAWING NUMBER
①	D.P.S. 8-25-92	HST19

HST19