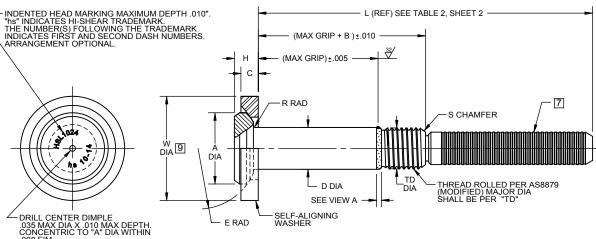
2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA 90509 U.S.A.

1

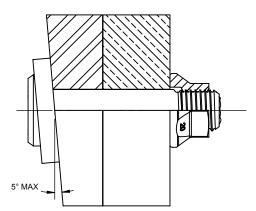
For the current list of licensed manufacturers, please visit the LISI AEROSPACE website at:

HTTP://WWW.LISI-AEROSPACE.COM/LICENSES



a

PULL-STEM™ PIN



PULL-STEM™ PIN AND NUT/COLLAR AFTER ASSEMBLY

					IAD	LEI	Ľ	2								
FIRST DASH NO.	PIN NOM DIA	A DIA REF	B REF	C MAX	D DIA	TD DIA	W DIA				Е	s		DOUBLE	TENSION	TENSION- TENSION
							CODE NAT MAX	CODE NATB MAX	H MAX	R RAD	RAD REF	CHAMFER REF	THREAD MODIFIED	SHEAR POUNDS MINIMUM	POUNDS MINIMUM	FATIGUE POUNDS MAX
6	13/64	.374	.300	.087	.2026 .2016	.1840 .1810	.463		.121	.025 .015	.315	1/32 x 45°	.1900-32 UNJF-3A	8,100	4,350	1,560
7	15/64	.411	.315	.092	.2338 .2328	.2100 .2070	.501		.130	.025 .015	.334	1/32 x 45°	.2160-28 UNJF-3A	10,646	5,634	1,972
8	17/64	.477	.330	.110	.2651 .2641	.2440 .2410	.571		.159	.025 .015	.377	1/32 x 45°	.2500-28 UNJF-3A	13,800	7,750	2,800
10	21/64	.567	.390	.127	.3276 .3266	.3060 .3020	.712	.668	.191	.030 .020	.440	3/64 x 45°	.3125-24 UNJF-3A	21,100	12,605	4,420
12	25/64	.656	.430	.145	.3901 .3891	.3680 .3640	.847	.764	.238	.030 .020	.502	3/64 x 45°	.3750-24 UNJF-3A	30,000	19,176	6,840
14	29/64	.746	.495	.162	.4526 .4516	.4310 .4260	.986	.894	.269	.030 .020	.565	3/64 x 45°	.4375-20 UNJF-3A	40,300	25,815	9,270
16	33/64	.835	.535	.181	.5151 .5141	.4930 .4880	1.193	1.062	.307	.030	.627	3/64 x 45°	.5000-20 UNJF-3A	52,500	34,300	12,300

SEE NUT/COLLAR STANDARDS FOR STRENGTHS. LOWER STRENGTH (PIN OR NUT/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: 1. Concentricity: "A" to "D" diameter within .010 FIM. 2. Dimensions in inches and to be met after finish.

TARIF 1

- Dimensions in inches and to be met after finish.
 Surface texture per ASME B46.1.
 Hole preparation per HSL/HPL-IS01: PULL-STEM™ / PULL-IN™ fastener installation specification for HSL/HPL pins.
 HSL 1024 is the oversize replacement for HSL 1014.
 Use HSL 1034 for oversize replacement.
 Coating and lube not mandatory on pintail.
 Product in accordance with LISI AEROSPACE Product Specification N°415.
- Washer external diameter values vary according to material:
 Code NAT (Titanium) and Code NATB (Inconel).

"HI-KOTE", "HI-LITE", "PULL-STEM" AND "HSL", ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY F.CARINGEL	DATE -LA 2016-02-17	PULL-ST SELF-ALIGNING
APPROVED C.REITZ	DATE 2016-02-17	BREAK STEM, INT NICKEL BASE ALLO 1/16 GRIP VARIATION

EM™ PIN TENSION HEAD TERFERENCE FIT OY (INCONEL 718) ON, 1/64 OVERSIZE

1 OF 2

DRAWING NUMBER DATE F.CARINGELLA **HSL1024** 2017-10-30



FINISH TABLE

Part	Finish, Lube, ID Code	Finish	Lube	Idenitfication	
Inconel Pin	NAP	HI-KOTE™ 1 NC Aluminum Pigmented Coating per Hi-Shear Spec. 294	Cetyl alcohol lube per Hi-Shear Spec. 305	None	
Titanium Washer	NAT	HI-KOTE™ 1 NC Aluminum Pigmented Coating per Hi-Shear Spec. 294	None	None	
Inconel Washer	NATB	HI-KOTE™ 1 NC Aluminum Pigmented Coating per Hi-Shear Spec. 294	None	Blue spot on outside diameter	

MATERIAL: Pin = Nickel base alloy (Inconel 718) per AMS5662 or AMS5962.

Washer = Nickel base alloy (Inconel 718) per AMS5662 or AMS5962, code NATB. Washer = Titanium alloy 6Al-4V per AMS4928 or AMS4967, code NAT.

HEAT TREAT: Pin = Nickel base alloy (Inconel 718) 220,000 psi tensile minimum and 125,000 psi shear minimum.

Washer (Titanium alloy 6Al-4V) = 160,000 psi tensile minimum and 95,000 psi shear minimum. Washer (Nickel base alloy, Inconel 718) = 220,000 psi tensile minimum and 125,000 psi shear minimum.

CODE: First dash number indicates nominal diameter in 1/32nds of the pin

which HSL1024 oversize pin replaces.

Second dash number indicates maximum grip in 1/16ths. See "Finish" note for explanation of code letters.

HOW TO ORDER Pin-Washer Assembly Part Number ① EXAMPLE: HSL1024 NAP 10 NATB 14 T 14/16 Maximum Grip Length Washer finish code 10/32 or 5/16 Nominal Diameter Pin Finish Code Pin Basic Part Number

TABLE 2

SECOND DASH	L (REF)									
NUMBER	-6 DIA	-7 DIA	-8 DIA	-10 DIA	-12 DIA	-14 DIA	-16 DIA			
1	-	-	-	-	-	-	-			
2	1.000	1.000	1.000	-	-	-	-			
3	1.125	1.125	1.125	1.250	-	-	-			
4	1.250	1.250	1.250	1.375	1.375	-	-			
5	1.375	1.375	1.375	1.500	1.500	1.625	-			
6	1.500	1.500	1.500	1.625	1.625	1.750	1.750			
7	1.625	1.625	1.625	1.750	1.750	1.875	1.875			
8	1.750	1.750	1.750	1.875	1.875	2.000	2.000			
9	1.875	1.875	1.875	2.000	2.000	2.125	2.125			
10	2.000	2.000	2.000	2.125	2.125	2.250	2.250			
11	2.125	2.125	2.125	2.250	2.250	2.375	2.375			
12	2.250	2.250	2.250	2.375	2.375	2.500	2.500			
13	2.375	2.375	2.375	2.500	2.500	2.625	2.625			
14	2.500	2.500	2.500	2.625	2.625	2.750	2.750			
15	2.625	2.625	2.625	2.750	2.750	2.875	2.875			
16	2.750	2.750	2.750	2.875	2.875	3.000	3.000			
17	2.875	2.875	2.875	3.000	3.000	3.125	3.125			
18	3.000	3.000	3.000	3.125	3.125	3.250	3.250			
19	3.125	3.125	3.125	3.250	3.250	3.375	3.375			
20	3.250	3.250	3.250	3.375	3.375	3.500	3.500			
21	3.375	3.375	3.375	3.500	3.500	3.625	3.625			
22	3.500	3.500	3.500	3.625	3.625	3.750	3.750			
23	3.625	3.625	3.625	3.750	3.750	3.875	3.875			
24	3.750	3.750	3.750	3.875	3.875	4.000	4.000			
25	-	-	-	4.000	4.000	4.125	4.125			
26	-	-	-	4.125	4.125	4.250	4.250			
27	-	-	-	4.250	4.250	4.375	4.375			
28	-	-	-	4.375	4.375	4.500	4.500			
29	-	-	-	-	4.500	4.625	4.625			
30	-	-	-	-	4.625	4.750	4.750			
31	-	-	-	-	4.750	4.875	4.875			
32	-	-	-	-	4.875	5.000	5.000			
33	-	-	-	-	5.000	5.125	5.125			
34	-	-	-	-	5.125	5.250	5.250			
35	-	-	-	-	5.250	5.375	5.375			
36	-	-	-	-	5.375	5.500	5.500			
37	-	-	-	-	5.500	5.625	5.625			
38	-	-	-	-	5.625	5.750	5.750			
39	-	-	-	-	5.750	5.875	5.875			
40	-	-	-	-	5.875	6.000	6.000			
41	-	-	-	-	6.000	6.125	6.125			
42	-	-	-	-	6.125	6.250	6.250			
43	-	-	-	-	6.250	6.375	6.375			
44	-	-	-	-	6.375	6.500	6.500			

DRAWING NUMBER