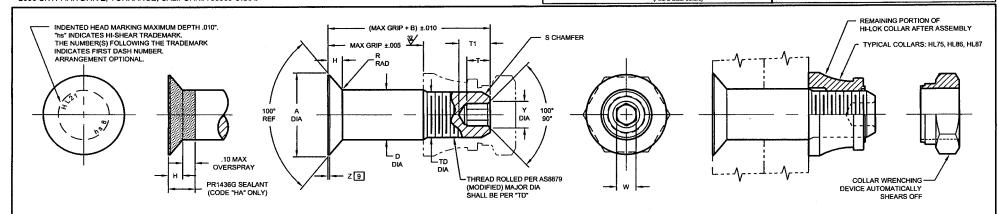
STANDARDS COMMITTEE FOR HI-LOK® PRODUCTS

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



HI-LOK® PIN

HI-LOK® PIN AND COLLAR AFTER ASSEMBLY

						1			9								
FIRST	PIN									s			soc			DOUBLE SHEAR	TENSION
DASH NO.	NOM DIA	A DIA	B REF	DIA	TD DIA	F REF	н	RAD	Z MAX	CHAMFER REF	THREAD	W HEX	DEPTH	T1 DEPTH MAX	Y DiA	POUNDS	POUNDS
5	5/32	.3304	.312	.1635 .1625	.1595	.004	.0700	.025 .015	.010	1/32" x 45°	8-32UNJC-3A Modified	.0801	.135	.165	7	4,010	2,180
6	3/16	.3813 .3765	.325	.1895 .1885	.1840 .1810	.005	.0805 .0785	.030 .020	.015	1/32" x 45°	10-32UNJF-3A Modified	.0806 .0791	.135 .115	.175	.119 .104	5,380	3,180
8	1/4	.5066 .5018	.395	.2495 .2485	.2440 .2410	.006	.1080 .1060	.030 .020	.015	1/32" x 45°	1/4-28UNJF-3A Modified	.0967 .0947	.150 .130	.200	.142 .122	9,300	5,820
10	5/16	.6335 .6287	.500	.3120 .3110	.3060 .3020	.007	.1350 .1330	.040 .030	.015	3/64" x 45°	5/16-24UNJF-3A Modified	.1295 .1270	.170 .150	.240	.180 .160	14,600	9,200
12	3/8	.7604 .7556	.545	.3745 .3735	.3680 .3640	.008	.1620 .1600	.040 .030	.015	3/64" x 45°	3/8-24UNJF-3A Modified	.1617 .1582	.200 .180	.275	.217 .197	21,000	14,000
14	7/16	.8884 .8812	.635	.4370 .4360	.4310 .4260	.009	.1895 .1865	.050 .040	.022	3/64" x 45°	7/16-20UNJF-3A Modified	.1930 .1895	.230 .210	.315	.253 .233	28,600	18,900
16	1/2	1.0139 1.0068	.685	.4995 .4985	.4930 .4880	.010	.2160 .2130	.050 .040	.022	3/64" x 45°	1/2-20UNJF-3A Modified	.2242 .2207	.260 .240	.360	.289 .269	37,300	25,600
18	9/16	1.1408 1.1337	.770	.5615 .5605	.5550 .5500	.010	.2430 .2400	.050 .040	.025	1/16" x 45°	9/16-18UNJF-3A Modified	.2555 .2520	.290 .270	.400	.326 .306	47,200	32,400
20	5/8	1.2723 1.2651	.825	.6240 .6230	.6180 .6120	.010	.2720 .2690	.050 .040	.025	1/16" x 45°	5/8-18UNJF-3A Modified	.2555 .2520	.330 .305	.440	.326 .306	58,300	41,000
24	3/4	1.5308 1.5236	1.050	.7490 .7480	.7430 .7370	.012	.3280 .3250	.050 .040	.025	1/16" x 45°	3/4-16UNJF-3A Modified	.3185 .3150	.395 .365	.520	.398 .378	83,900	59,500
28	7/8	1.7845 1.7773	1.210	.8740 .8730	.8680 .8610	.014	.3820 .3790	.050 .040	.025	5/64" x 45°	7/8-14UNJF-3A Modified	.3820 .3780	.400 .370	.560	.471 .451	114,000	81,500
32	1	2.0405 2.0310	1.390	.9990 .9980	.9930 .9860	.014	.4370 .4330	.050 .040	.025	5/64" x 45°	1-12UNJF-3A Modified	.5100 .5040	.520 .490	.715	.618 .598	149,000	106,000

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

"Hi-Lok" and "HL" are internationally registered trademark of Hi-Shear Corporation.					
DRAWN Ric	DATE 3-11-63	TITLE HI-LOK® PIN			
APPROVED Cessna	DATE 3-13-63	100° FLUSH MS24694 TENSION HEAD ALLOY STEEL 1/16" GRIP VARIATION			
REVISION 21	DATE JO 5-1-2008	DRAWING NUMBER HL21 SHEET 1 OF 2			

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STANDARDS COMMITTEE FOR HI-LOK® PRODUCTS

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

	BLANC AERO INDUSTRIES UK LIMITED (Licensee)——CAGE No. OLB68 a LISI AEROSPACE Company HUCK S.A. France (Licensee - ECC Countries) BLANC AERO S.A. France (Licensee - ECC Countries) a LISI AEROSPACE Company
١.	MINEBEA CO., LTD, Japan (Licensee - Japan)

GENERAL NOTES:	1 Head edge out of roundness shall not exceed "F". 2. Concentricity: Conical surface of head to "D" diameter within .005 FIM. 3. "H" is dimensioned from maximum "D" diameter. 4. Dimensions to be met after finish. 5. Surface texture per ANSI B46.1. 6. Hole preparation per NAS618.	CODE: ② HOW TO ORDER	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.
	7] Evidence of broken edge across paints. B Non-lubed pins must be used with lubed collars or with wet sealant. Curved or flat edge manufacturer's option. Use HL65 for oversize replacement.	EXAMPLES:	Pin Part Number Only HL21PB8-8
21 MATERIAL:	Alloy steel per AMS6415, AMS6349, or AMS6049.		Pin Part Number
②1 HEAT TREAT:	160,000 - 180,000 psi tensile per AMS-H-6875.		Pin and Collar Assembly Part Number Combination
②1 FINISH:	HL21-()-() = Cadmium plate per AMS-QQ-P-416, Type I, Class 2, and cetyl alcohol lube per Hi-Shear Spec. 305. HL21HC()-() = Cadmium plate per AMS-QQ-P-416, Type I, Class 2, and Precoat No. PR1436G sealant		HL21PB86-8-8 Size and Grip Length, See Above Exam Collar Part Number Pin Finish
	(.002005 thick) plus cetyl alcohol lube per Hi-Shear Spec. 305. HL21N()-() = Diffused nickel-cadmium plate per AMS2416pe I, Class 2, and cetyl alcohol lube per Hi-Shear Spec. 305.		Pin Part Number
	HL21PB()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2, and cetyl alcohol lube per Hi-Shear Spec. 305.		
8	HL21PN()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2. HL21RB()-() = Cadmium plate per AMS-QQ-P-416, Type II, Class 2, color violet purple, and cetyl alcohol lube per Hi-Shear Spec. 305.		

HL21