HI-SHEAR Corporation, USA a LISI AEROSPACE Company

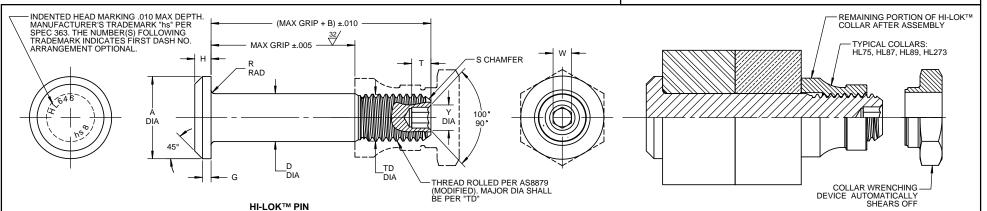
(15)

Design Holder

CAGE No. 73197

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

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



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FIRST	PIN NOM DIA	<b>A</b> DIA	<b>B</b> REF	<b>D</b> DIA								SOCKET			DOUBLE	TENSION
DASH NO.				WITHOUT COATING OR SOLID FILM	AFTER COATING OR SOLID FILM	<b>TD</b> DIA	<b>G</b> REF	Н	<b>R</b> RAD	S CHAMFER REF	THREAD MODIFIED	W HEX	<b>T</b> DEPTH	<b>Y</b> DIA	SHEAR POUNDS MINIMUM	POUNDS MINIMUM
5	5/32	.322 .306	.312	.1635 .1630	.1635 .1625	.1595 .1570	.030	.060 .055	.025 .015	1/32 x 45°	.1640-32 UNJC-3A	.0801 .0791	.100 .080	6	5,280	2,940
6	3/16	.377 .357	.325	.1895 .1890	.1895 .1885	.1840 .1810	.035	.074 .064	.025 .015	1/32 x 45°	.1900-32 UNJF-3A	.0806 .0791	.100 .080	.119 .104	7,060	4,350
8	1/4	.440 .415	.395	.2495 .2490	.2495 .2485	.2440 .2410	.045	.090 .080	.025 .015	1/32 x 45°	.2500-28 UNJF-3A	.0967 .0947	.110 .090	.142 .122	12,260	7,750
10	5/16	.505 .475	.500	.3120 .3115	.3120 .3110	.3060 .3020	.055	.112 .102	.030 .020	3/64 x 45°	.3125-24 UNJF-3A	.1295 .1270	.130 .110	.180 .160	19,160	12,300
12	3/8	.600 .565	.545	.3745 .3740	.3745 .3735	.3680 .3640	.075	.140 .130	.030 .020	3/64 x 45°	.3750-24 UNJF-3A	.1617 .1582	.160 .140	.217 .197	27,600	19,100
14	7/16	.676 .641	.635	.4370 .4365	.4370 .4360	.4310 .4260	.095	.160 .150	.030 .020	3/64 x 45°	.4375-20 UNJF-3A	.1930 .1895	.190 .170	.253 .233	37,500	25,800
16	1/2	.770 .735	.685	.4995 .4990	.4995 .4985	.4930 .4880	.095	.188 .178	.030 .020	3/64 x 45°	.5000-20 UNJF-3A	.2242 .2207	.220 .200	.289 .269	49,100	34,300
18	9/16	.877 .842	.770	.5615 .5610	.5615 .5605	.5550 .5500	.125	.210 .200	.040 .025	1/16 x 45°	.5625-18 UNJF-3A	.2555 .2520	.260 .240	.326 .306	62,100	43,500
20	5/8	.953 .918	.825	.6240 .6235	.6240 .6230	.6180 .6120	.140	.238 .228	.040 .025	1/16 x 45°	.6250-18 UNJF-3A	.2555 .2520	.260 .240	.326 .306	76,700	54,600
24	3/4	1.150 1.110	1.050	.7490 .7485	.7490 .7480	.7430 .7370	.200	.335 .320	.045 .030	1/16 x 45°	.7500-16 UNJF-3A	.3185 .3150	.330 .300	.398 .378	110,400	79,200
28	7/8	1.330 1.290	1.210	.8740 .8735	.8740 .8730	.8680 .8610	.250	.385 .370	.050 .035	5/64 x 45°	.8750-14 UNJF-3A	.3820 .3780	.400 .370	.471 .451	150,300	117,000
32	1	1.510 1.470	1.390	.9990 .9985	.9990 .9980	.9930 .9860	.300	.435 .420	.060 .045	5/64 x 45°	1.0000-12 UNJF-3A	.5100 .5040	.520 .490	.618 .598	196,300	143,000

## HI-LOK™ PIN AND COLLAR AFTER ASSEMBLY

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

"HI-LOK", "HL", AND "HI-KOTE", ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY	DATE	TITLE
VAN	1969-12-22	HI-LOK™ PIN
		PROTRUDING TENSION HEAD
APPROVED	DATE	PH13-8Mo STAINLESS STEEL
J.M.	1969-12-23	11110 01110 017 111112200 01222
O.IVI.	1909-12-23	1/16 GRIP VARIATION
REVISION	DATE	DRAWING NUMBER
_	MAREARD	

**HL646** 2017-06-21

1 OF 2



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

GENERAL NOTES: 1. Concentricity: "A" to "D" diameter within .010 FIM. (5) 2. Dimensions are in inches and to be met after finish.

(15) 3. Surface texture per ASME B46.1.

4. Hole preparation per NAS618.

[5] Maximum "D" diameter may be increased by .0002 to allow for solid film or aluminum coating application.

6 Evidence of broken edge across points.

7. Use HL746 for oversize replacement.

[8] After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294 will be replaced by REACH compliant HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on fasteners coated in European Union.

MATERIAL: PH13-8Mo stainless steel per AMS5629.

**HEAT TREAT:** 125,000 psi shear minimum.

FINISH: HL646-()-() = Solid film lube per AS5272, Type I.

[8] HL646AP()-() = HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294, and cetyl alcohol lube

per Hi-Shear Spec. 305.

HL646LL()-()
HL646PB()-()
HL646TB()-()
HL646HK()-()

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SPECIFICATION: HI-LOK™ Product Specification 342.

**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** 

(15) EXAMPLE: Pin Part Number HL646AP8-8 8/16 or 1/2 Maximum Grip Length - 8/32 or 1/4 Nominal Diameter Pin Finish Code Pin Basic Part Number

DRAWING NUMBER

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