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

HI-SHEAR Corporation, USA a LISI AEROSPACE Company

(2)

2

Design Holder

CAGE No. 73197

COLLAR WRENCHING-DEVICE AUTOMATICALLY

SHEARS OFF

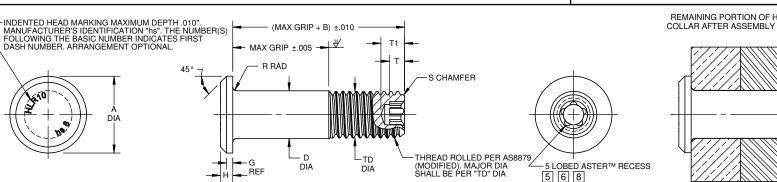
TYPICAL COLLAR: HL70, HL79, HL82, HL94, HL97

TYPICAL NUT:

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

REMAINING PORTION OF HI-LOK™

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



HI-LOK™ PIN WITH ASTER™ RECESS

FIRST DASH NO.	PIN NOM DIA	A DIA	B REF	D DIA						s		ASTER™ RECESS			DOUBLE	TENSION
				WITHOUT ALUMINUM COATING	WITH ALUMINUM COATING	TD DIA	G REF	Н	R RAD	CHAMFER REF	THREAD MODIFIED	RECESS SIZE CODE	T1 DEPTH MAX	T DEPTH MIN	SHEAR POUNDS MINIMUM	POUNDS MINIMUM
5	5/32	.262 .242	.312	.1635 .1630	.1635 .1625	.1595 .1570	.020	.047 .037	.025 .015	1/32 X 37°	.1640-32 UNJC-3A	A5L-05	.118	.072	4,010	1,940
6	3/16	.315 .295	.325	.1895 .1890	.1895 .1885	.1840 .1810	.025	.055 .045	.025 .015	1/32 X 37°	.1900-32 UNJF-3A	A5L-06	.116	.069	5,380	2,500
7	7/32	.351 .331	.355	.2182 .2177	.2182 .2172	.2100 .2070	.035	.059 .049	.025 .015	1/32 X 37°	.2160-28 UNJF-3A	A5L-07	.117	.069	7,194	3,100
8	1/4	.412 .387	.395	.2495 .2490	.2495 .2485	.2440 .2410	.030	.069 .059	.025 .015	1/32 X 37°	.2500-28 UNJF-3A	A5L-08	.118	.069	9,300	4,300
10	5/16	.505 .475	.500	.3120 .3115	.3120 .3110	.3060 .3020	.035	.078 .068	.030 .020	3/64 X 37°	.3125-24 UNJF-3A	A5L-10	.127	.070	14,600	6,300
12	3/8	.600 .565	.545	.3745 .3740	.3745 .3735	.3680 .3640	.040	.088 .078	.030 .020	3/64 X 37°	.3750-24 UNJF-3A	A5L-12	.147	.087	21,000	8,700
14	7/16	.676 .641	.635	.4370 .4365	.4370 .4360	.4310 .4260	.045	.105 .093	.030 .020	3/64 X 37°	.4375-20 UNJF-3A	A5L-14	.196	.116	28,600	12,100
16	1/2	.770 .735	.685	.4995 .4990	.4995 .4985	.4930 .4880	.050	.115 .103	.030 .020	3/64 X 37°	.5000-20 UNJF-3A	A5L-16	.236	.139	37,300	15,300

RECOMMENDED COLLAR OR NUT FOR ASSEMBLY

6

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

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

 - 2 3. Surface texture per ASME B46.1.
 - 4. Hole preparation per NAS618.
 - 5 US patent 6632057; other US & foreign patents granted and pending property of LISI AEROSPACE.
 - 6 Broach petals removed.
 - 7.Use HLR110 for oversize replacement.
 - (2) 8 Identification colorant is not allowed in the ASTER™ Recess.

MATERIAL: 6AL-4V titanium alloy per AMS4928 or AMS4967.

HEAT TREAT: 160,000 psi tensile minimum (95,000 psi shear minimum). (2)

FINISH: HLR10NKJ()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 with color silver on thread end and cetyl alcohol lube per Hi-Shear Spec. 305.

HLR10NKK()-() = Sulfuric acid anodizing per ISO8080 and HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only with color silver on

thread end and cetyl alcohol lube per Hi-Shear Spec. 305.

HLR10NKL()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only with color silver on thread end and cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION: HI-LOK™ Product Specification 409. ASTER™ Recess per A5L-QA02.

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 Pin Part Number ② EXAMPLES: HLR10 NKJ 8-8 -8/16 or 1/2 Maximum Grip Length 8/32 or 1/4 Nominal Diameter Pin Finish Code Pin Basic Part Number

"HI-LOK", "HLR", AND "HI-KOTE" ARE TRADEMARKS OF HI-SHEAR CORPORATION ASTER™ IS A TRADEMARK OF LISI AEROSPACE.

F.CARINGELL	DATE A 2016-07-07	HI-LOK™ PIN, ASTER™ RECESS PROTRUDING SHEAR HEAD				
APPROVED C.REITZ	DATE 2016-07-07	TITANIUM 1/16 GRIP VARIATION				
REVISION 2	DATE F.CARINGELLA 2017-12-05	DRAWING NUMBER HLR10 1 OF 1				