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

HI-SHEAR Corporation, USA a LISI AEROSPACE Company

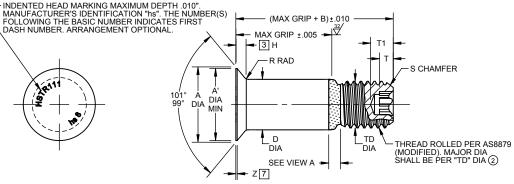
Design Holder

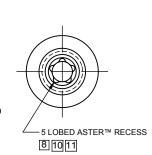
CAGE No. 73197

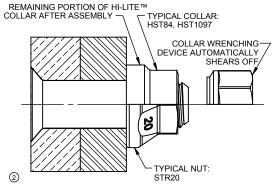
For the current list of licensed manufacturers, please visit the LISI AEROSPACE website at:

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









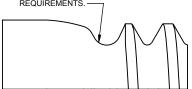
RECOMMENDED COLLAR OR NUT FOR ASSEMBLY

1 7

HI-LITE™ PIN WITH ASTER™ RECESS

| FIRST DA SH NO. | PIN NOM DIA | A DIA | A' DIA MIN | B REF | D DIA | | | | | | | s | | ASTER™ RECESS | | | DOUBLE | TENSION |
|-----------------------|-------------------|------------------------|------------------|----------|--------------------------------|-----------------------------|----------------|------|----------------|--------------|----------|----------------|---------------------|------------------------|--------------------|-------------------|----------------------------|-------------------|
| | | | | | WITHOUT ALUMINUM COATING | WITH ALUMINUM COATING | TD DIA | F | н | R RAD | Z MAX | CHAMFER REF | THREAD MODIFIED | RECESS SIZE CODE | T1 DEPTH MAX | T DEPTH MIN | SHEAR POUNDS MINIMUM | POUNDS MINIMUM |
| 5 | 3/16 | NOTE: USE HSTR11()6-() | | | | | | | | | | | | | | | | |
| 6 | 13/64 | .3016 .2966 | .270 | .300 | .2026 .2021 | .2026 .2016 | .1840 .1810 | .005 | .0415 .0394 | .030 .020 | .015 | 1/32 X 37° | .1900-32 UNJF-3A | A5L-06 | .116 | .069 | 6,130 | 2,000 |
| 7 | 15/64 | .3403 .3355 | .309 | .315 | .2338 .2333 | .2338 .2328 | .2100 .2070 | .005 | .0512 .0492 | .030 .020 | .015 | 1/32 X 37° | .2160-28 UNJF-3A | A5L-07 | .117 | .069 | 8,100 | 3,100 |
| 8 | 17/64 | .3948 .3898 | .363 | .330 | .2651 .2646 | .2651 .2641 | .2440 .2410 | .006 | .0544 .0523 | .030 .020 | .015 | 1/32 X 37° | .2500-28 UNJF-3A | A5L-08 | .118 | .069 | 10,490 | 3,700 |
| 10 | 21/64 | .4739 .4689 | .442 | .390 | .3276 .3271 | .3276 .3266 | .3060 .3020 | .007 | .0614 .0593 | .040 .030 | .015 | 3/64 X 37° | .3125-24 UNJF-3A | A5L-10 | .127 | .070 | 16,000 | 5,000 |
| 12 | 25/64 | .5604 .5554 | .529 | .430 | .3901 .3896 | .3901 .3891 | .3680 .3640 | .008 | .0714 .0693 | .040 .030 | 015 | 3/64 X 37° | .3750-24 UNJF-3A | A5L-12 | .147 | .087 | 22,700 | 7,200 |
| 14 | 29/64 | .6680 .6620 | .620 | .495 | .4526 .4521 | .4526 .4516 | .4310 .4260 | .009 | .0904 .0879 | .050 .040 | .022 | 3/64 X 37° | .4375-20 UNJF-3A | A5L-14 | .196 | .116 | 30,600 | 10,000 |
| 16 | 33/64 | .7540 .7480 | .706 | .535 | .5151 .5146 | .5151 .5141 | .4930 .4880 | .010 | .1002 .0977 | .050 .040 | .022 | 3/64 X 37° | .5000-20 UNJF-3A | A5L-16 | .236 | .139 | 39,600 | 13,500 |

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



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

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

DRAWN BY DATE F.CARINGELLA 2016-07-07 APPROVED DATE C.REITZ 2016-07-07

(2)

HI-LITE™ PIN, ASTER™ RECESS 100° FLUSH SHEAR HEAD TITANIUM

1 OF 2

1/16 GRIP VARIATION, 1/64 OVERSIZE DRAWING NUMBER

HSTR111



GENERAL NOTES: 1 Head edge out of roundness shall not exceed "F".

2. Concentricity: Conical surface of head to "D" diameter within .003 FIM.

3 "H" is dimensioned from maximum "D" diameter.

4. Dimensions are in inches and to be met after finish.

② 5. Surface texture per ASME B46.1.

6. Hole preparation per NAS618.

7 Curved or flat edge manufacturer's option.

8 US patent 6632057; other US & foreign patents granted and pending property of LISI AEROSPACE.

9. Oversize replacement for HSTR11. Use HSTR411 for oversize replacement.

10 Broach petals removed.

②11 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 for sizes up to 3/4).

FINISH: HSTR111NKJ()-() = 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.

HSTR111NKK()-() = 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.

HSTR111NKL()-() = 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-LITE™ Product Specification 410. ASTER™ Recess per A5L-QA02.

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

of the pin which HSTR111 oversize pin replaces.

Second dash number indicates maximum grip in 1/16ths.

See Finish note for explanation of code letters.

