### Thread Size Code

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<th>Thread Size Code</th>
<th>Ø D</th>
<th>(H)</th>
<th>(H1)</th>
<th>(H2)</th>
<th>J</th>
<th>Ø M ±.005</th>
<th>Ø N ±.005</th>
<th>Ø Q ±.004</th>
<th>Ø R</th>
<th>W</th>
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### Part Number Callout

- **DRS (J)7500**
- **Model**
- **Series**

### Thread Size Code

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<th>Thread Size Code</th>
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### Recess Code

- **SLOT RECESS PER ANSI B18.6.3**
- **H5 HEX SOCKET RECESS PER ANSI B18.3**
- **T5 RECESS PER NASM 33781**
- **NR NO RECESS**
- **P CROSS RECESS PER NASM 30088**

### Title

**ALCOA FASTENING SYSTEMS**

AEROSPACE FASTENER DIVISION
3724 EAST COLUMBIA STREET
TUCSON, ARIZONA 85714
PHONE 520 519-7400
FAX 520 519-7427
www.alcoafasteners.com

**TURN-LOC, HIGH PROFILE, OPTIONAL RECESS, OPTIONAL SIZE, ALL CRES**

**Date:** 10/20/2005

**Scale:** 1:1

**Drawing No.:** S-2082

**Drawn:** ILS

**Revision:** H

**Check:** 0HDW7

**Part Number:** DRS(J)7500
## Availability Table

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### Material

- **STUD**: HS, NR, P, PZ, & SLOT RECESSES
  - ALL SIZES - 302 CRES PER ASTM-A-493 OR AMS 5636
- **STUD**: TS AND TW RECESSES
  - ALL SIZES - A-286 CRES PER AMS 5737, HEAT TREAT TO 160 KSI MIN. ULTIMATE TENSILE STRENGTH
- **KNOB**: 303Snc CRES PER AMS QQ-S-764 OR AMS 5641
- **SLEEVE**: 304 CRES PER AMS QQ-S-763 OR AMS 5639
- **SPRING**: 302 CRES PER ASTM-A-313 OR AMS 5688

### Finish

- **NONE**: ALL COMPONENTS: PASSIVATE PER AMS-QQ-P-35
- **B**: STUD & KNOB:
  - BLACK OXIDE PER MIL-C-13924, CLASS 4 (300 SERIES)
  - BLACK OXIDE PER MIL-C-13924, CLASS 3 (A-286)

### Notes:

1. LETTERS AT THE END OF PART NUMBER DESIGNATE SPECIAL ASSEMBLIES:
   - DL - ASSEMBLIES WITH DRI LUBE THREADS PER MIL-PRF-46010
   - PL - ASSEMBLIES WITH PATCH LOCK PER MIL-DTL-18240
2. NO CODE REQUIRED FOR SLOTTED HEADS
3. WHEN USING THE HEX SOCKET CONFIGURATION, ADD .070 TO "L" LENGTH.
4. FOR LONGER LENGTHS, ADD .125 INCREMENTS PER LENGTH CODE
5. 3A THREADS PER ASME B1.1. "M" THREADS PER ANSI/ASME B1.13M.
6. RECESS IS ONE SIZE SMALLER THAN NOMINAL SIZE REQUIRED FOR 100° FLAT HEAD.
7. COMPONENTS ARE FINISHED PRIOR TO THE ASSEMBLY PROCESS. DISCOLORATION OF THE BLACK OXIDE MAY OCCUR ON THE CRIMPED PORTION OF THE KNOB DURING ASSEMBLY. A HIGH-ADHESION BLACK PAINT IS PERMITTED FOR TOUCH-UP AFTER ASSEMBLY.
8. MAY BE USED WITH .020 DEEP C'BORE.

### Installation Tools:

- ( ) INDICATES THREAD SIZE CODE
- ARBOR PRESS TOOL HW7600-( ), REMOVAL ADAPTER TOOL FNR7505-( ), NOSE PIECE HN7513-( ), PULLER HP7523-( ), HANDLE ASSEMBLY TA7533;
- COMPLETE HAND TOOL ASS'Y: H8603-( ) (INCLUDES NOSE PIECE, PULLER & HANDLE)