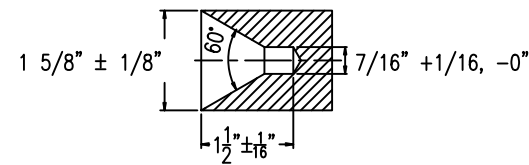
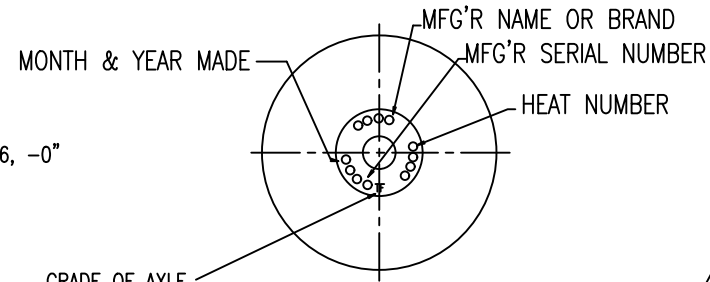


**AXLE CENTERING  
FINISHED DIMENSIONS**  
CENTER HOLE TYP.



**MANUFACTURER'S END**



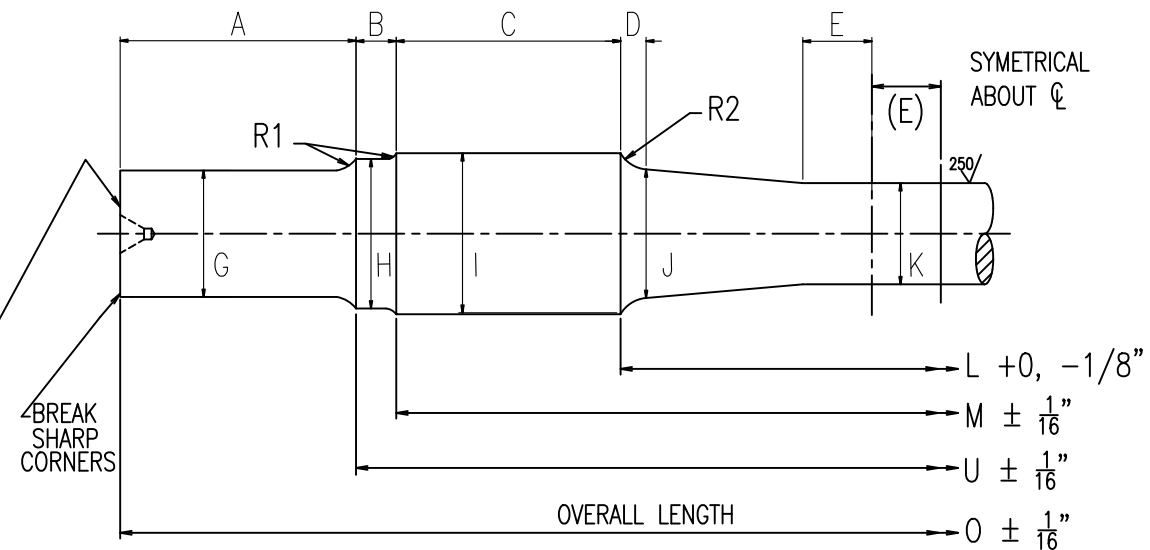
**GRADE OF AXLE**  
U - FOR UNTREATED AXLES TO AAR SPEC. M101.  
F - FOR DOUBLE NORMALIZED AND TEMPERED AXLES TO AAR SPEC. M101.

**AXLE MARKINGS**

SHALL BE DEEPLY AND LEGIBLY COLD STAMPED WITH ALL CHARACTERS NO LESS THAN 1/4" HIGH. ALL ELEVATIONS OR IRREGULARITIES SHALL BE FILLED OR GROUND AFTER STAMPING.

**MATERIAL SPECIFICATIONS**

MATERIAL TO BE IN ACCORDANCE WITH A.A.R. SPECIFICATION M-101F {LATEST REVISION}




**END OF AXLE**  
ENDS OF AXLE TO BE MACHINED BY MANUFACTURE TO FINISHED LENGTH DURING ROUGH MACHINE OPERATION. BOTH END OF AXLE MUST HAVE A SURFACE FINISH NOT EXCEEDING 125 MICRO-INCH.

**ROUGH TURNED AXLE DIMENSIONS**

| CLASS | SIZE OF JOURNAL | DIMENSIONS ARE IN INCHES |        |        |        |        |        |        |        |        |        |         |         |         |         |        |        |
|-------|-----------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
|       |                 | A                        | B      | C      | D      | E      | G      | H      | I      | J      | K      | L       | M       | U       | O       | R1     | R2     |
| L     | 6 X 8           | 8.0820                   | 3.2930 | 7.6250 | 2.0000 | 3.0000 | 5.8155 | 7.1550 | 8.3750 | 7.3125 | 6.4375 | 47.5000 | 62.7500 | 69.3360 | 85.5000 | 1.5000 | 3.0000 |
| E     | 6 X 11          | 10.8125                  | 1.8125 | 7.6250 | 2.0000 | 3.0000 | 5.8155 | 7.1550 | 8.3750 | 7.3125 | 6.4375 | 47.5000 | 62.7500 | 66.3750 | 88.0000 | 1.5000 | 3.0000 |
| F     | 6 1/2 X 12      | 11.6250                  | 1.8125 | 7.6250 | 2.0000 | 3.0000 | 6.3155 | 7.6550 | 8.8750 | 7.8750 | 7.3750 | 47.5000 | 62.7500 | 66.3750 | 89.6250 | 1.5000 | 3.0000 |
| G     | 7 X 12          | 10.9375                  | 2.3125 | 7.6250 | 2.0000 | 3.0000 | 7.1250 | 8.1250 | 9.6250 | 8.5625 | 8.0000 | 47.5000 | 62.7500 | 67.3750 | 89.2500 | 1.5000 | 3.0000 |
| K     | 6 1/2 X 9       | 8.8060                   | 3.3970 | 7.6250 | 2.0000 | 3.0000 | 6.3155 | 7.6250 | 8.8750 | 7.8750 | 7.3750 | 47.5000 | 62.7500 | 69.5440 | 87.1562 | 1.5000 | 3.0000 |
| M     | **7 X 9         | 8.8750                   | 3.5000 | 7.6250 | 2.0000 | 3.0000 | 6.6250 | 7.6562 | 9.6250 | 8.5625 | 8.0000 | 47.5000 | 62.7500 | 69.7500 | 87.5000 | 1.5000 | 3.0000 |

**NOTES:**

- ALL DIAMETER DIMENSIONS (R1,R2) ARE +1/16,-0"
- ALL RADIUS DIMENSIONS (R1,R2) ARE +0,-1/16"
- AXLES CAN BE CUSTOM MACHINED TO CUSTOMER SPECIFICATIONS
- \*\* 7 X 9 EXCLUSIVELY PROTECTED UNDER PATENT NO. US 6,189,456B1

|   |     |         |  |
|---|-----|---------|--|
| REV   | BY  | DATE    | REVISION                                     |
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| DRAWN   | AES | 1/27/03 | <b>RAISED WHEEL SEAT ROLLER BEARING AXLE</b> |
| CHKD  | ZRH | 8/21/18 |  |
| APPD  |     |         |  |
| 1st FILE  |     |         |  |
| NLA   |     |         |  |
| WEIGHT  |     |         |  |
| DRAWING NO:   |     |         | SHEET  |
| REF. DWG. AAR MANUAL G II   |     |         | 1  |
| FIG.4.3 (LATEST REVISION)   |     |         | OF   |
|   |     |         | 1  |
|   |     |         | REV  |
|   |     |         | SIZE   |