

**hi-shear**  
CORPORATION

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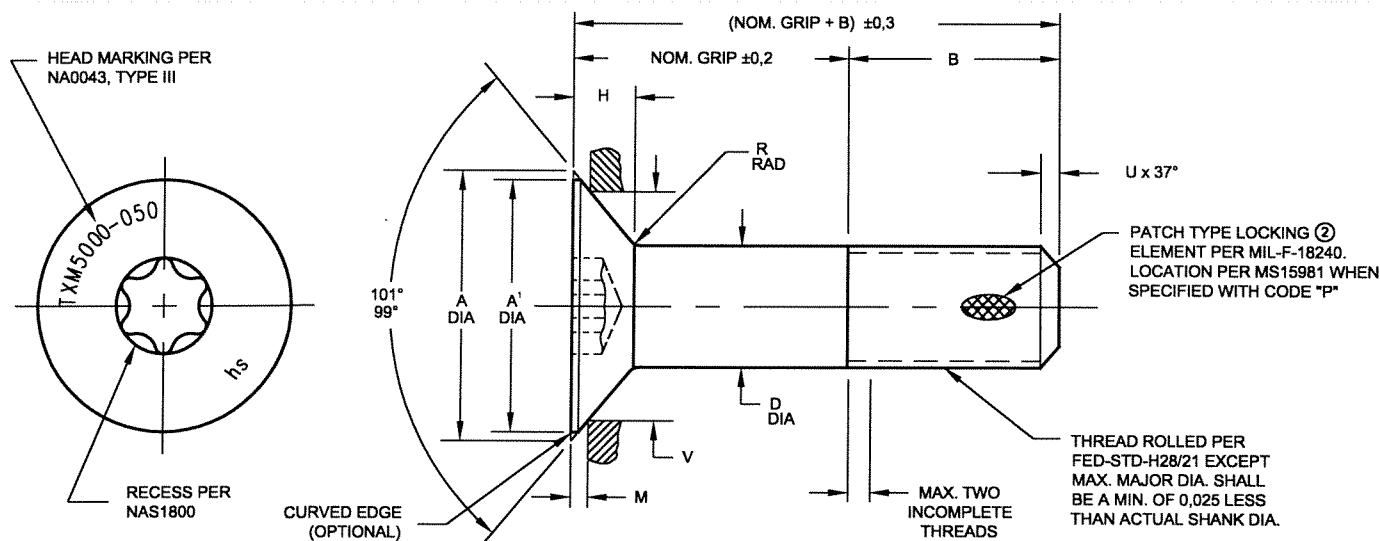


TABLE 1

| DIA CODE | NOM DIA | THREAD<br>4h6h | A DIA.<br>MAX.<br>[2] | A' DIA.<br>MIN.<br>[2] | B REF. | D DIA.         | H REF.<br>[2] | R RAD.     | U REF. | Y FIM | V GAGE DIA       | M HEAD PROT. | NAS1800 RECESS |            |                 |
|----------|---------|----------------|-----------------------|------------------------|--------|----------------|---------------|------------|--------|-------|------------------|--------------|----------------|------------|-----------------|
|          |         |                |                       |                        |        |                |               |            |        |       |                  |              | RECESS NUMBER  | DEPTH      | TORQUE N.m MIN. |
| 050      | 5       | MJ5 x 0,8      | 10,0                  | 9,0                    | 9,0    | 4,990<br>4,978 | 2,12          | 0,5<br>0,3 | 0,7    | 0,12  | 8,305<br>8,300   | 0,72<br>0,64 | T20            | 1,4<br>1,2 | 7,3             |
| 060      | 6       | MJ6 x 1        | 12,0                  | 10,8                   | 10,0   | 5,990<br>5,978 | 2,54          | 0,7<br>0,5 | 0,8    | 0,12  | 10,105<br>10,100 | 0,80<br>0,72 | T20            | 1,4<br>1,2 | 7,3             |
| 080      | 8       | MJ8 x 1        | 16,0                  | 14,8                   | 11,5   | 7,987<br>7,972 | 3,39          | 0,7<br>0,5 | 0,9    | 0,15  | 13,805<br>13,800 | 0,93<br>0,85 | T30            | 1,9<br>1,7 | 19,8            |
| 100      | 10      | MJ10 x 1.25    | 20,0                  | 18,8                   | 14,5   | 9,987<br>9,972 | 4,24          | 0,8<br>0,6 | 1,0    | 0,15  | 17,505<br>17,500 | 1,06<br>0,92 | T40            | 2,0<br>1,7 | 33,9            |

- GENERAL NOTES:**
- Grip length is from top of bolt head to end of full cylindrical portion of shank.
  - "A", "A'" and "H" are included for engineering reference purpose only and are not to be used for inspection. Values "A", "A'" and "H" are calculated limits resulting from tolerances on "D", "M", "V" and head angle.
  - Head edge out of roundness shall not exceed "Y" FIM.
  - Shank shall be straight within 0,05 FIM per 25,4 mm of length.
  - Point shall be flat and chamfered. Incomplete thread shall not exceed two pitches.
  - Concentricity: Conical surface of head to "D" diameter within 0,08 FIM. "D" diameter to thread pitch diameter within "Y" values FIM.
  - Surface texture per ISO/R468. Bearing surface of head, fillet radius of head and all thread elements 0,8 µm maximum. All other surfaces 3,2 µm maximum.

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

**HEAT TREAT:** 660 MPa minimum ultimate shear.

**FINISH:** TXM5000HK( )-( ) = Hi-Kote 4 aluminum coating per Hi-Shear Spec 397.

**CODE:** First three numbers after the part number indicates nominal shank diameter in 1 mm and tenths.  
Second dash three number indicates nominal grip length in 1 mm.

② "P" following second dash number indicates patch type locking element.

**PROCUREMENT:** NA0007.

**EXAMPLE:** TXM5000HK050-014 P

Locking Patch ②  
14 mm Nominal Grip Length  
5 mm Nominal Diameter  
Basic Part Number

| DRAWN      | DATE     | BY         | TITLE<br><b>BOLT</b><br>100° FLUSH HEAD, SHEAR, METRIC<br>GEAR DRIVE RECESS<br>6AL-4V TITANIUM<br>660 MPa | DRAWING NUMBER<br><b>TXM5000</b> |
|------------|----------|------------|-----------------------------------------------------------------------------------------------------------|----------------------------------|
|            | 9-29-99  | J.F.Obispo |                                                                                                           |                                  |
| APPROVED   | 10-4-99  | J.Tanyi    |                                                                                                           |                                  |
| ② REVISION | 12-11-00 | j.f.obispo |                                                                                                           |                                  |

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**TABLE 2**

| 0,5 mm OVERSIZE |                  |           | 1,0 mm OVERSIZE |                  |           |
|-----------------|------------------|-----------|-----------------|------------------|-----------|
| PART NUMBER     | D<br>DIA.        | H<br>REF. | PART NUMBER     | D<br>DIA.        | H<br>REF. |
|                 |                  |           |                 |                  |           |
| TXM5000HK055-() | 5,490<br>5,478   | 1,9       | TXM5000HK060-() | -<br>-           | -         |
| TXM5000HK065-() | 6,487<br>6,472   | 2,3       | TXM5000HK070-() | 6,987<br>6,972   | 2,1       |
| TXM5000HK085-() | 8,487<br>8,472   | 3,2       | TXM5000HK090-() | 8,987<br>8,972   | 3,0       |
| TXM5000HK105-() | 10,484<br>10,466 | 4,0       | TXM5000HK110-() | 10,984<br>10,966 | 3,8       |
|                 |                  |           |                 |                  |           |

DRAWING NUMBER

**TXM5000**

Sheet 2 of 2

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