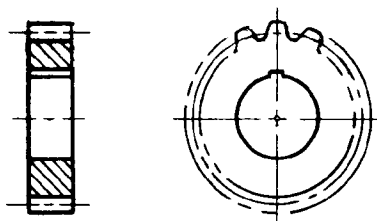


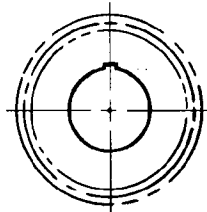
CONVENTIONAL REPRESENTATION

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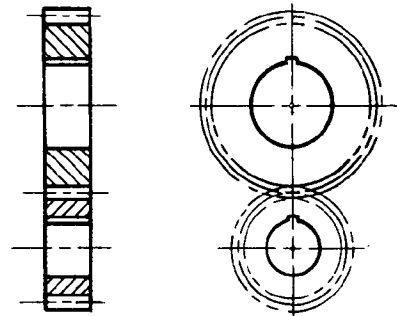
1. **GENERAL:** Conventional Representation provides established drafting practices for showing various common part elements which are a compromise between complete pictorial representation and complete symbolization. The use of conventional representation materially reduces drafting time and thus increases drafting economy without impairing the clarity of the drawing.
- 1.1 **Acceptable Practices:** Accepted conventional representations which have been established by common usage are given in the following paragraphs.
2. **DETAIL APPLICATIONS:** Conventional representations are recommended for the following applications:
 - (a) **Gears:** When drawing gears, omit the delineation of most or all of the gear teeth in the front view. See Figures 1 and 2. The front view may be omitted unless required for clarity in connection with notes or dimensions.



(a) SPUR GEAR DETAIL

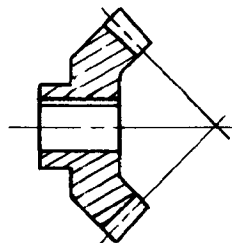
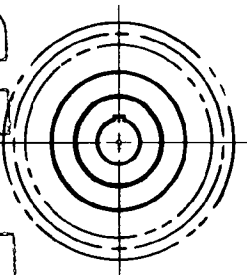


(ALTERNATE)

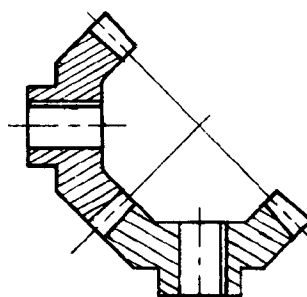
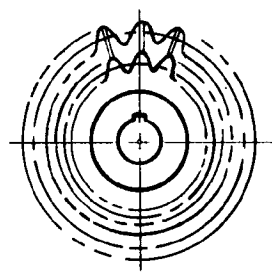


(b) SPUR GEAR ASSEMBLY

FIGURE 1



(a) BEVEL GEAR DETAIL



(b) BEVEL GEAR ASSEMBLY

FIGURE 2

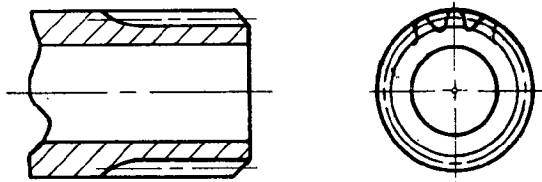
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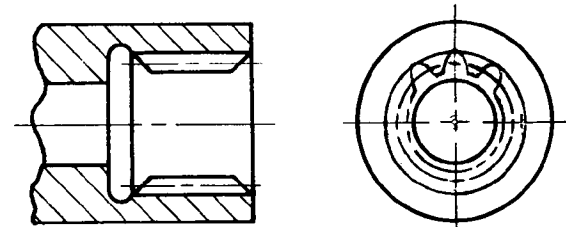
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- (b) Splines & Serrations: Treat splines and serrations in similar manner to gears. Figure 3 shows treatment for involute splines.
- (c) Involute Tooth Form Profile: A simplified method for drawing an involute tooth form accurate enough for most drawings is given in Figure 4. This method may be used for both external and internal gear or spline teeth.

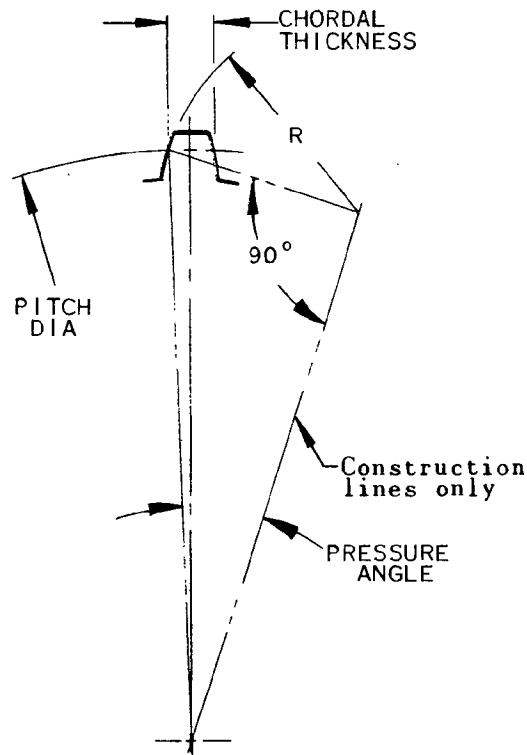


(a) EXTERNAL SPLINE



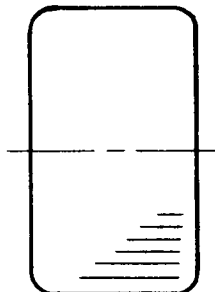
(b) INTERNAL SPLINE

FIGURE 3

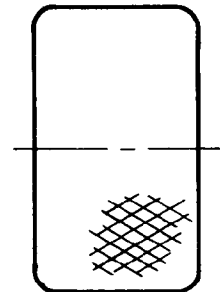


INVOLUTE TOOTH FORM PROFILE
FIGURE 4

- (d) Knurls: Show the knurls on only a portion of the entire knurled surface. Show enough to indicate which surface is knurled. See Figure 5.



(a) STRAIGHT KNURL



(b) DIAMOND KNURL

FIGURE 5

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(e) **Screw Threads:** Screw threads should be represented as shown in Figures 6 and 7.

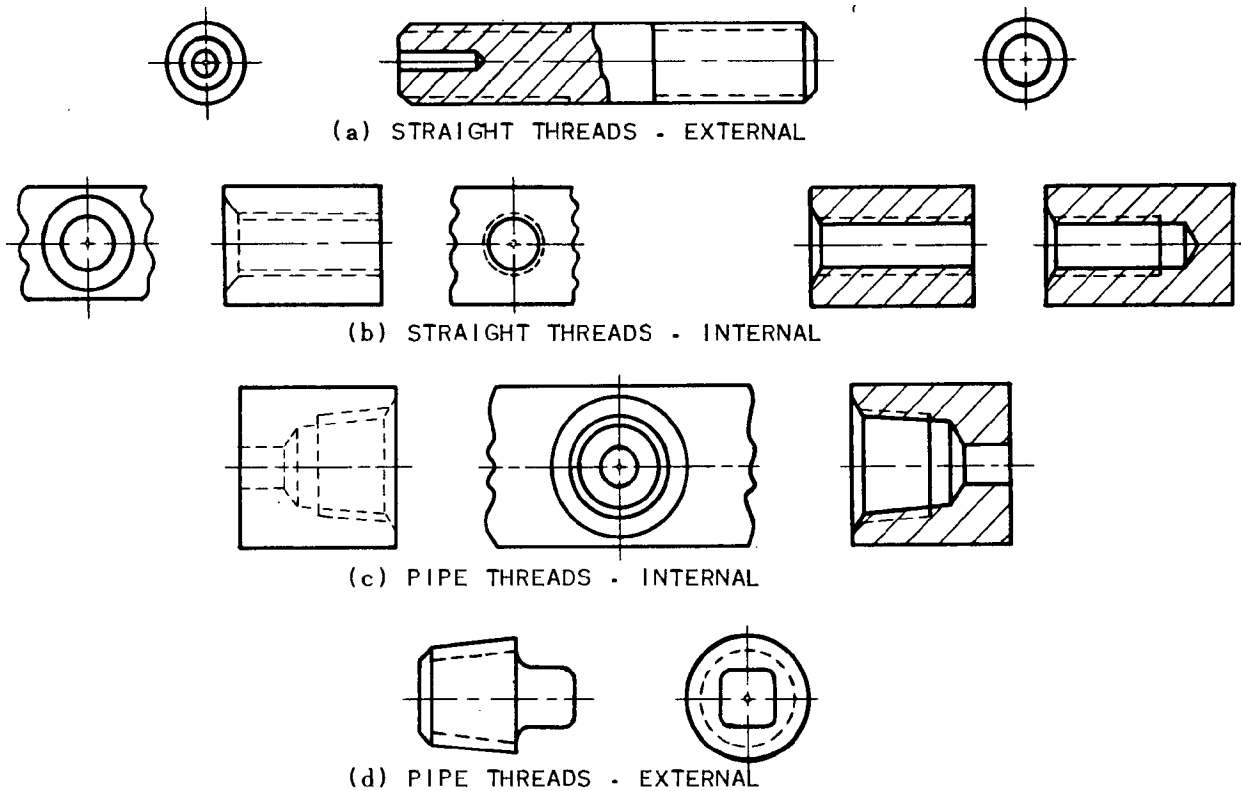


FIGURE 6

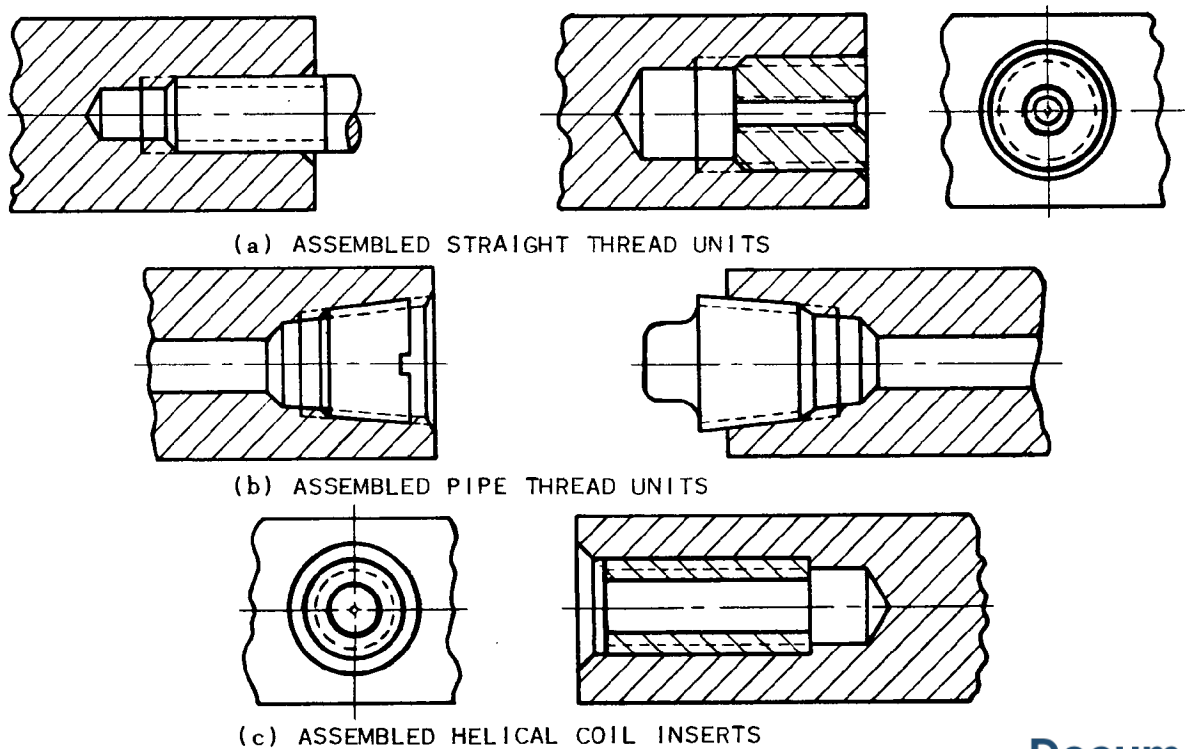


FIGURE 7



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