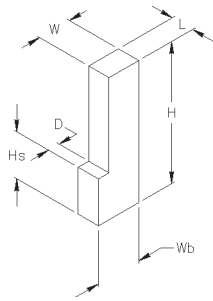


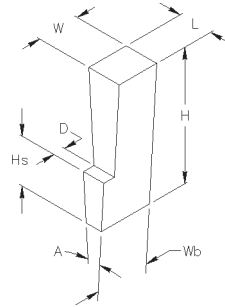
General Marking Guidelines

Blank Dimensions



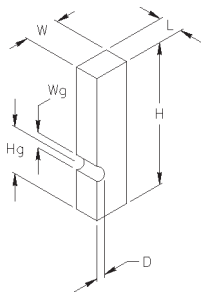
Straight Step Type

L = length
 W = width
 H = height
 H_s = height from step to bottom of die
 D = depth of step
 W_b = overall width of blank
 ($L \times W \times H$)
 step: ($H_s \times D$)



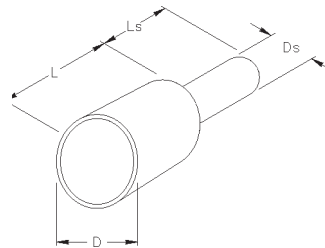
Knurl Step Type

L = length
 W = width
 H = height
 H_s = height from step to bottom of die
 D = depth of step
 W_b = overall width of blank
 A = angle
 ($L \times W \times H$)
 step: $H_s \times D$ angle: A)



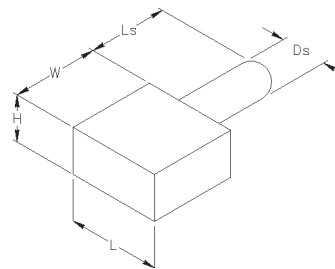
Straight Groove Type

L = length
 W = width
 H = height
 H_g = height from middle of groove to bottom of die
 W_g = width of groove
 D = depth of groove
 ($L \times W \times H$)
 groove: ($H_g \times W_g \times D$)



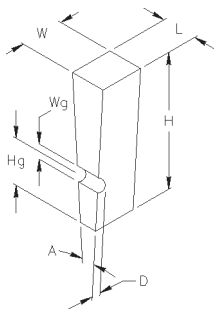
Shank Style Round Die

L = length of body
 D = diameter of body
 L_s = length of shank
 D_s = diameter of shank
 ($D \times L$)
 shank: ($D_s \times L_s$)



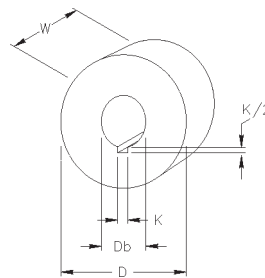
Shank Style Rectangular Die

L = length of die
 W = width of die
 H = height of die
 D_s = diameter of shank
 L_s = length of shank
 ($L \times W \times H$)
 shank: ($D_s \times L_s$)



Knurl Groove Type

L = length
 W = width
 H = height
 H_g = height from middle of groove to bottom of die
 W_g = width of groove
 D = depth of groove
 A = angle
 ($L \times W \times H$)
 groove: ($H_g \times W_g \times D$)
 angle: A)



Lettering Knurl (Round Die)

D = diameter
 W = width
 D_b = diameter of bore
 K = width of keyway
 $K/2$ = depth of keyway
 ($D \times W \times D_b \times K \times K/2$)