

CONSIDERATIONS REGARDING ON THE USE OF SLIP LINES METHOD FOR DETERMINING EFFORTS AT BLANKING METAL MATERIALS WITH HIGH THICKNESS

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Abstract: The paper presents the formation of the shearing surfaces during the blanking operations when using the slip lines method. It is analysed both the emergence of the slip lines at the penetration of the punch into the material and the formation of the slip lines due to the motherboard of the die. The network of the slip lines underneath the contact surfaces is represented by rectangular isosceles triangles and in the transition zone the network is a series of radial lines. It is investigated the contact area of the slip lines which derivate from the edges of the two active elements.

Key words: slip lines, blanking, die, punch