

Analysis for Shear Spinning of Tubes with Hard-To-Work Materials

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Abstract : Metal spinning is one such process in which the stresses are localized to a small area and the material is made to flow or move over the mandrel with the help of spinning tool. Spinning of tubular products can be performed by two techniques, forward spinning and backward spinning. Many researchers have studied the process both experimentally and analytically. An effort has been made to apply the process to the spinning of thin wall, highly precision, small bore long tube in hard-to-work materials such as titanium.

Keywords : metal spinning, hard-to-work materials, roller diameter, power consumption

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