Estimation of Fluid Pressure in the Process of Magneto-rheological Flow Finishing

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Abstract

This paper presents the 3D model of pressure distribution in the process of magneto-rheological flow finishing. The effect of working gap on pressure distribution is studied using COMSOL Multiphysics® software. Also, the effect of different viscosity of fluids on development of pressure distribution is studied. The 3D model shows behavior of pressure distribution for magnetic and non-magnetic field. The results are compared with well published paper.