

THE INFLUENCE OF WORKING PARAMETERS ON PRECISION IN PROCESSING OF SHORT, INTERIOR, CIRCULAR VIBRO-HONING, PROCESS OF PIECES MADE OF CAST IRON 250 (SR ISO 185 – 94)

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Abstract: Vibro-honing is a technological finishing which uses a set of abrasive or diamond bars interlinked, mounted in a vibro-honing head. This paper presents a point of view concerning the influence of working parameters on precision in processing in vibro-honing of circular short surfaces for pieces made of cast iron 250 (SR ISO 185-94). Based on the analysis of experimental values, the authors have obtained the relationship $AF_c=f(v_t, v_1, v_0)$ and $AF_1=f(v_t, v_1, v_0)$. There is also presented the influence of longitudinal speed upon circularity deviation for two different oscillatorie speeds.

Key words: vibro-honing, surface, roughness, parameters.