

SOME CONTRIBUTIONS IN THE DESIGNING OF THE INJECTION SYSTEMS OF THE MOULDS CAVITIES

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The paper gives some contributions in developing of the plastic mass injection systems in the mould cavities in shoe manufacturing. There are fretted the following subjects; the optimization of the mould cavities placing reporting to the feeding canals and the optimization of the canals dimensions for the quality improving of the obtaining products. Almost all semi manufactured articles used in shoe manufacturing are made through injection into the moulds. The injection systems into the moulds are very complex and varied. A correct dimensioning of the injection systems has a great importance up to the quality of the injected pieces and up to the productivity of the manufacturing process. The aspects in designing of the moulds made for products in shoe manufacturing are an important concerning of the specialists in the field. The paper presents the results of the theoretical and experimental researches of the author about the following problems: the optimum solutions of the moulds cavities placing (the moulds used in shoe manufacturing and the mathematical relations in the dimensioning of the cavities of the feeding canals. The experimental results confirmed the theoretical considerations. The paper gives some experimental and theoretical contributions the academies, technologic and research fields, about the increasing of the products quality in shoe manufacturing which use injection processes. The paper gives new important information about the optimization of the injection systems into moulds used in shoe manufacturing.

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