

Low-cost Plastic Injection Mold Design for Laboratory/Education Environment

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Abstract: Plastic injection mold is usually made out of either steel or aluminum. Each set of mold consists of multiple components such as ejector pins/plates, guide pins, mold base, locator ring, mold blanks, etc. Over costs turn out to be unacceptable for student projects or laboratory environment practices. During the learning process, students will make mistakes and destroy the expensive mold blank and unrecoverable. This paper presents options to the situation. Students will be learning the operations of industry scale injection molding machine with low cost mold design in class.

Keywords: Injection molding, Plastics, Mold Design

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