Mold Design for Plastic Part Featured with Undercut

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ABSTRACT

Today's rapidly growing demand of plastic product in market and shortening product life cycle, not only increasing need of injection mold but also shortening development-time in its design. As to the plastic parts without undercut-feature, the construction of mold design is simple, but those with undercuts more than two, are time-consumed and complicated due to design parameters correlated each other even for an experienced designer. Main concerns in this paper are explored the optimal parting direction during mold design of plastic part with undercut in order for minimum interference among parting line, parting surface and parting direction. Design of the related mechanism for molding the undercut-featured part are proposed and illustrated by examples.

Keywords: Parting direction, parting line, parting surface, undercut feature

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