ABSTRACT

The present invention relates to the field of injection molding whereby it disclosed a quick-change and adjustable insert mold frame that can facilitate ease of removal and installation of mold inserts from and onto any injection molding machine. More specifically, it disclosed an apparatus that is designed to accommodate different insert sizes and machine tonnage. It uses a mold frame to accommodate different sizes of full function cold sprue mold inserts. It is a rapid prototype tool to test designed parts' concepts, and is useful for low volume production, quick delivery for the customer. The key features comprise of adjustable insert blocks to accommodate three (3) different core cavity insert sizes with the front-loading inserts into the frame. Sliders and lifters can be built into the mold base for part releases, including any part ejection system. Insert based direct cooling channels can also be incorporated into the mold base.

Use **Figure 1.**