RAPID TOOLING DESIGN



Rapid Tooling Design Introduction Direct Rapid Tool Materials Indirect Tooling Metals Direct Tooling Plastic Resins Rapid Prototyping Processes The Four Steps In Constructing An Injection Mold The Rapid Prototyping Workflow Tool Design **Data Preparation** Insert Design Part Building Core & Cavity Design Postprocessing Stock Allowances Component Building **Indirect Rapid Tooling Processes Introduction** Rapid Prototyping Room Temperature Vulcanized Rubber Molding/RTV Simultaneous Machining Of Mold Elements The Pattern Design Postprocessing Of Inserts Pattern Draft **Avoiding Excessive Secondary Operations** Pattern Construction Tool Assembly **RTV Mold Making Process** Inserts Mounted To Mold Pockets **RTV Part Materials & Quantities** Injection Molding Metal vs. Plastic Resin Inserts **Direct Rapid Tooling Processes Introduction Conformal Cooling Channels** Use Of Direct Rapid Tooling In Injection Molding The Hybrid Mold

Direct Rapid Tooling Vs. Traditional Technologies