

Rapid Tooling

Prototype tooling can be fabricated quickly, economically, and be capable of producing parts close to final production specifications.

To achieve production design-intent tooling (rapid tooling), proven foundry / molding technologies are used with rapid prototyped patterns and fast reproductive resins. The rapid prototyped pattern is converted into high quality prototype tooling that meets the manufacturer's design and the tooling industry's requirements.

Several methods and materials can be used to achieve quick turn around tooling:

SAND CASTING

rapid prototyped pattern a foundry tool a sand mold a casting

SILICON RUBBER MOLDING

rapid prototyped pattern a Silicone mold a Urethane casting

PLASTER CASTING

negative rapid prototyped pattern a rubber tool a plaster mold a casting

INVESTMENT CASTING

rapid prototyped pattern a ceramic dip process a r.p. pattern burnt / melted out a casting

VACUUM FORMING

rapid prototyped pattern (used as tool) a material vacuum formed over pattern a finished part

DIRECT TOOL

rapid prototyped mold a Silicone, Urethane or Epoxy parts