Abstract

The purpose of this project was to validate industrial designs for a product in its conceptual stage and suggest/implement design changes that suite the contracting company's needs while assuring the product maintains its basic functional requirements. Techniques and methods used to validate the design include 3-D solid modeling, physical product application using rapid prototyping to produce the product. Methods of design for manufacturing were analyzed in the design. Processes used in the validation and verification of the design include solid modeling design, methods of measurements, fixture design and manufacturing processes. Full design specifications and solid model files were finalized and given to the host company.