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Design & Development Process

The following document sets out the processes involved in taking a basic concept into a fully engineered product. This is a generic document and some stages will not be appropriate for all projects.

Stage 1 – Concept Design

- Assessment of project feasibility
- Investigation into suitable materials
- Investigation into suitable component parts
- Production of a number of different concepts based on the brief given
- Supply of photo realistic images of concepts produced
- Assessment of unit and startup/tooling costs

Stage 2 – Concept Finalisation

- Production of final concept based on selected elements of initial concepts produced
- Completion of decision making process on materials and components
- Production of final photo realistic image

Stage 3 – 3D Development Design

- Production of fully engineered 3D CAD in solid works suitable for production.
- Confirmation of tooling/startup costs
- Confirmation of unit costs

Stage 4 – Prototype Production

- Production of prototype model using appropriate method

Stage 5 – Tooling Production / Final Sample Provision

- Tooling manufacture
- Component sourcing – supply chain setup
- Final article production.

Stage 6 – Volume Production