

Industrial Design + Mechanical Engineering Concept to Production - Design and Product Development Services



Design and Engineering for tough environments – outdoors, sports, industrial and medical



Office Products + Design + Engineering + Brand Development













Infrastructure – Power – Networking – Connection



















Human Interaction + Ergonomics + Hand Held + Regulated

#### **Concept to Production Design and Engineering**

Industrial Design + Mechanical Engineering + Sourcing

### **Concept to Production Phase Gate Process**

Phase 0	Specification	Definition + Research
Phase 1	Concept Development	Configuration + Design and Engineering Concept + Human Factors
Phase 2	Design Refinement	Feasibility Testing + Refinement to One Concept + User/Customer Evaluation
Phase 3	Part Design	Production Part Design + Cost Confirmation + Final Specification
Phase 4	Prototype and Documents	Prototype and Evaluation + Final Sourcing + Control Documents
Phase 5	Tooling through Production	Tooling Release and Review + First Article Evaluation and Final Revisions

#### **Computer Aided Design Software and Capabilities**

Pro-Engineer and Solid Works

Finite Element Analysis + Tolerance and Production Engineering + Design to Cost for worldwide sourcing + High Volume Production Design Design for Patent Application and IP Strategy

Demonstrated ability and extensive experience in electronic packaging combining industrial design and mechanical engineering

#### **Facilities**

Staff Size 12 1/3 Industrial Design 2/3 Engineering Experienced Senior Staff
12,000 Square Feet – Large Conference Facility + Foam Model Shop + Secure Client Areas

Founded 1984 – over 20 major design awards from IDSA/Business Week, IF, Appliance Design, ID Magazine Bleck Design Group 51 Middlesex Street, North Chelmsford MA 01863 Tel. 978-251-7474

