



## Package Technology

Design Group provides Package Technology Services that meet the Client, Consumer, Industry, and Regulatory requirements and specifications.

### Service Offerings

- Overall Program or Project Management
- Ideation and Conceptualization
- Stage Gate development and implementation
- Material testing and cost analysis
- Commissioning, Qualification, Verification (CQV) for new or modified packaging materials
- Specifications/Standards/Test Methods development and maintenance
- Onsite Audits of packaging systems – machines, methods, and materials
- Supplier coordination and new Supplier alignment
- Packaging SKU consolidation
- Packaging database design and development
- Fast Track / Acceleration Projects
- Distribution Testing (Ship, Stack, Vibration and Drop, Compression, Shelf Life)

### Industries

- Beverage (Beer, Wine, Spirits, Soft Drink, Water, Juice, Cold Fill & Hot Fill, Aseptic, Retort, Pasteurized)
- Dairy
- Food, Confections and Consumables
- Pet food
- Household & Personal Care
- Industrial/Chemical
- Nutraceuticals
- Life Sciences (Pharmaceutical, Biotech, Medical Device)

### Material Categories Serviced

- PET, HDPE, and Glass Containers
- Cans & Ends
- Metal & Poly Closures
- Polypropylene containers
- Labels (Pressure Sensitive, Paper, Poly, Shrink)
- Films (Shrink, RSW & nonregistered, pouches, bags)
- Blister cards
- Corrugated & Paperboard
- Pallets, Stretch Wrap & other tertiary items

## Package Technology

Design Group is a premier supplier of packaging services to the Beverage, Food, Dairy, Home and Personal Care, Life Sciences, and Industrial/Chemical sectors. The addition of Package Technology to our 30 years of high performance filling and packaging line solutions creates a holistic approach to our client's package and packaging needs. Design Group offers Package Technology services to manage the material qualifications for new package innovations or changes to existing packaging materials using a stage gate process. This ensures the quality, sustainability, and consistency of the packaging material and equipment performance from production through the distribution of the product.

Design Group's Package Technology team can provide complete program oversight or fill a specific role, complementing your package development team with experienced professionals. Our broad package experience, together with recognized best practices and industry-accepted technologies, ensure the successful planning and execution for all of your package material needs.

### Beverage

Design Group delivers extensive experience in the oversight and implementation of line trials, quality and regulatory audits, and material – machine interface for a wide range of beverage package materials with applications at rates from 200 to 2,500 cpm.

### Food

Our Package Technology expertise includes the primary, secondary, display and tertiary packaging for Snack Foods, Dairy, Baked Goods, Coffee Pods, Confections, Sauces, Dressing, Vegetables, Soups, and other consumables.





### Household & Personal Care

Design Group provides package technology services for new package innovations and material changes to a wide variety of home, personal care and household products including: Shampoos, Conditioners, Body Wash, Cosmetics, Lotions, Deodorant, Body Spray, Toothpaste, Soap (bar and liquid), Detergents, Household Cleaners, Aerosols, and Air Fresheners.

### Life Sciences

Design Group offers customized package technology services to implement packaging innovations or modifications to existing package materials that meet serialization, FDA, and other regulatory requirements.

### Types of Packaging

Primary Packaging In immediate contact with the product (glass & polymeric bottles, cans & ends, closures, bags, pods)	Secondary Packaging Protects primary packaging; most visible – Corrugated, Paperboard, labels, overwrap films.	Display Packaging Uses secondary and promotional packaging to maximize the visibility in the retail environment.	Tertiary Packaging Protects goods in transit – pallets or slip sheets, overwrap (stretch), other load stabilization materials.
			

Design Group operates from 45+ offices in the US and India providing engineering, consulting, and technical services to the world's leading companies in the Food & Beverage, Life Sciences, Advanced Technology, Industrial, and other market sectors. Our nearly 1500 technical and engineering experts have direct industry experience in industrial automation, control system integration, facility and process engineering, architecture, construction management, regulatory compliance, enterprise technology, and other consulting services.