

Fill Finish Design

Skills and Specialties

Understanding the key drivers of your business – technology and regulatory requirements – is critical when designing or upgrading a filling suite. CRB is a recognized leader in the design of biopharmaceutical manufacturing facilities. We also have the knowledge and expertise to design final dosage facilities for the production of parenterals, orals, tablets, liquids, creams, and ointments. Our success is based on the process expertise we bring to our clients' projects. We combine that expertise with a strong knowledge and understanding of FDA requirements and system design capabilities to make your project a success.

Areas of Expertise

Sterile Products

- Component Preparation
- Formulation
- Filling
- Lyophilization
- Capping, Sealing
- Terminal Sterilization
- Inspection
- Labeling
- Coding
- Vision Systems
- Packaging

Non-Sterile Products

- Milling/Blending
- Weighing
- Granulation
- Fluid Bed Processing
- Tablet Compression
- Coating
- Filling (Bottles, Tubes)
- Capping
- Induction Sealing
- Labeling
- Coding
- Vision Systems
- Packaging



FILL FINISH DESIGN SKILLS AND SPECIALTIES

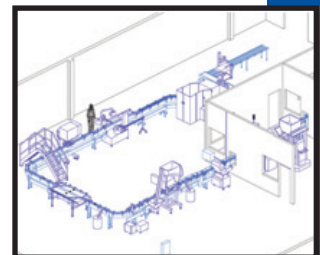
Operating and engineering design company experience with pharmaceutical fill-finish facilities enables CRB to understand and help you meet the daily challenges in producing and moving product through your facility.

- Hands-On Experience
- People, Material and Equipment Flows
- Minimize Cross-Contamination, Mix-Ups and Errors
- Delivering Industry-Leading Engineering Solutions
- Cost-Effective, Validatable Facility
- Compliant with Governing Codes, Laws, Regulations and Your Needs



Innovative layout and line design starts with listening to you and offering a customized approach that best satisfies your specific business needs.

- Application and Use of Barrier Isolation
- Traditional Filling Suites
- Secondary and Tertiary Packaging Lines
- Practical and Reliable Results
- Validation Oriented Documentation



Engineering Services

- Facility Programming and Layout
- Project Definition and Scope Development
- Process Flows
- Technology Selection
- Process Simulation
- Line Layout
- Clean Room Mechanical/HVAC Design
- Hazardous Area Design
- Process, Automation and Mechanical/Electrical System Design
- 3-D Modeling
- Piping Isometrics
- Detailed Commissioning Plans and Protocols

