



PHARMACEUTICALS BIOTECHNOLOGY HEALTHCARE

Engineering the delivery of healthcare





OUR COMMITMENT TO YOU

Our team is enthusiastic and committed, keen to grasp the opportunity that your project represents and willing to 'go that extra mile' to deliver success.

Foster Wheeler is one of the world's most prestigious engineering and construction companies - with over a century of experience. We have thousands of professional, highly-skilled personnel, providing innovative solutions and delivering projects world-wide.

Our impressive track record covers the full range of facilities for pharmaceutical research, development and manufacture, enabling our customers to make a significant contribution to helping people live longer and healthier lives.



DELIVERING WORLD-CLASS PROJECTS

Successfully meeting the challenges facing the industry...

...delivering facilities for:

- Active pharmaceutical ingredients
- Biopharmaceuticals
- Dosage form manufacture
- Pilot plants
- R&D laboratories
- Medical devices
- Consumer health products
- Diagnostics

...and providing professional services:

- Feasibility studies
- Concept design
- Site selection
- Site master planning
- Permitting
- Environmental impact assessment
- Process simulation
- Lean manufacturing
- Continuous processing
- Basic design
- Project management
- Detailed engineering
- Procurement
- Construction management
- Commissioning
- Regulatory compliance
- Validation
- Plant operation and maintenance
- Site remediation

SAFEGUARDING YOUR REPUTATION

We understand the importance of safety, cost, quality and time to market. Our success in delivering project performance internationally has been recognized by our customers.

Many companies say they focus on Health, Safety & Environmental (HSE) excellence. We can demonstrate that we really do. Our outstanding performance has been internationally recognized with many prestigious awards.

We have a top-down focus on HSE, in the office and at site. It starts with 100% commitment from our CEO and an HSE culture which demands that we leave nothing to chance.

Of equal importance in this market segment is that all the facilities we build are compliant with cGMP.

"Foster Wheeler's professionalism and dedication impressed us. Promised targets have been met and we are confident that the expansion will meet our expectations."

"Speed to market is critical for the launch of new drug products. We knew from the outset that the aggressive schedule ... would be a tremendous challenge ... this project is testament to the entire team's hard work, commitment and ingenuity."

"... amazed by the job that has been done in such a short time ... We liked very much your personal approach and hard and dedicated work. Working with you was always constructive; you showed always an open mind."



GLOBAL REACH, LOCAL SUCCESS

Major operating centers, regional offices and strategic partners ensure expert support is available in all key locations for the industry.

Basel, Switzerland
Emeryville, CA, US
Glasgow, UK
Istanbul, Turkey
Madrid, Spain
Milan, Italy
Paris, France
Philadelphia, PA, US
Reading, UK
Shanghai, China
Singapore
Teesside, UK
Warrington, UK



Takeda
API Facility
Ireland



University of Nebraska-Lincoln
Biological Process Development Facility
Nebraska, USA



GSK Bio
Vaccines Facility
Hungary



Shanghai Weike
Biotech Facility
Pudong, China



Schering-Plough
R&D Facility
Singapore



Novartis
Oral Solid Dosage Facility
Singapore

INDUSTRY SEGMENTS SERVED

Active pharmaceutical ingredients

Our acknowledged expertise encompasses both batch and continuous chemical and biochemical synthesis.

We have designed and built a wide variety of facilities, each configured to meet our clients' needs for operational flexibility and adaptability.

We have engineered facilities to cover the entire range of containment thresholds including some of the lowest design operating exposure limits in the industry.

Biopharmaceuticals

We have a wide range of experience in biopharmaceutical manufacturing. Our expertise covers the conceptual design, engineering, construction and validation of biopharmaceutical bulk manufacture and finishing facilities for products ranging from therapeutically active proteins, such as growth hormones and blood fraction proteins, to vaccines of both viral and bacterial origin.

We have guided clients on interfacing with regulatory authorities, specially related to cGMP and containment of biological hazards.

Research and development

Modern R&D facilities need to be designed to facilitate the movement of new drugs safely and quickly through the R&D pipeline. They also need to facilitate the transfer of ideas among R&D personnel.

We have specific know-how in translating the requirements of R&D personnel into a range of practical, flexible, optimized solutions.

Our expertise covers functional design, operational activities and their inter-relationships, specification of equipment and materials, aesthetics and automation.

Dosage form manufacture

Our experience encompasses oral solid dosage forms, fill/finish of sterile liquids, creams and ointments, medical devices and diagnostics.

Our design processes focus on process architecture, ensuring that product, people and material flows are optimized to deliver a cost-effective solution.





PHARMACEUTICALS - BIOTECHNOLOGY - HEALTHCARE

The right people with a 'can do' attitude
and the commitment to deliver

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