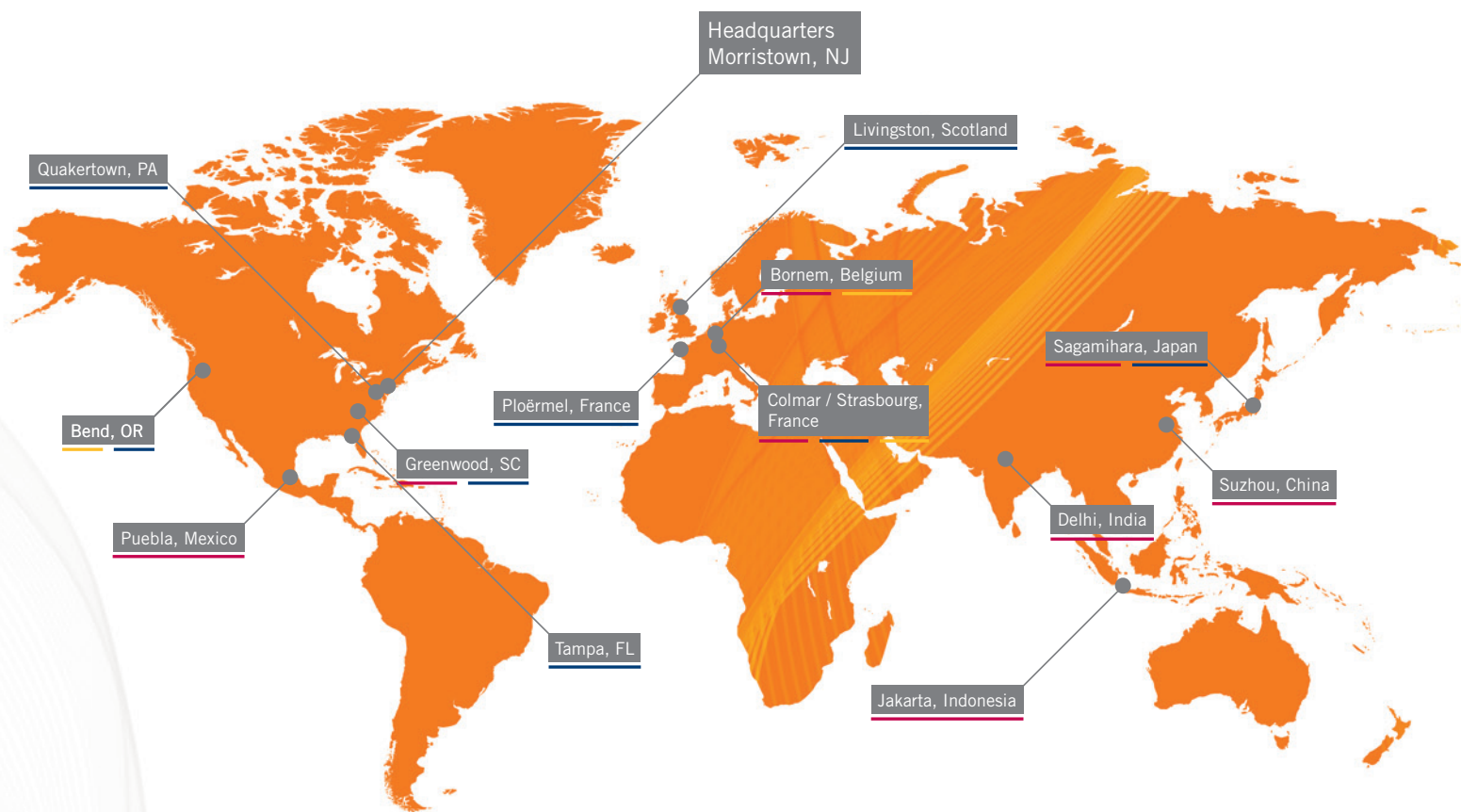


CAPSUGEL® Dosage Form Solutions



- Hard Capsule Manufacturing
- Dosage Form Solutions
Product Development & Manufacturing
- Corporate R&D

INNOVATIVE DOSAGE SOLUTIONS FOR THE HEALTHCARE INDUSTRY

- Bioavailability Enhancement
- Modified & Targeted Release
- Capsules / Encapsulation
- Specialized Applications

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CAPSUGEL® Dosage Form Solutions



Capsugel is one of the world's leading providers of innovative dosage solutions that help customers turn their compounds into better medicines and nutritionals. Science and engineering drives everything we do – from the industry's broadest technology suite, enabling solutions to challenges like bioavailability, to the design, development and manufacture of optimized, high quality dosage forms.

FASTER PRODUCT APPROVALS

OPTIMIZATION-FOCUSED SERVICES

Drug substance characterization
Micronization
Xcelodose® micro-dosing services for powder in capsule evaluation
Feasibility screening
Formulation optimization
IND-supporting stability and analytical methods
GMP manufacture across solid oral dose range (high containment and controlled substances)

TECHNOLOGY SELECTION

Fundamental model-based approach, developed through years of investigation and formulation experience, enables selection of the appropriate technology for the optimal design of our clients' compounds.

DESIGN

Our breadth of advanced technology solutions, our formulation expertise and our experience in solving problems is unparalleled.

DEVELOP

Our proprietary technology platforms and development services support product development, rapid scale-up and transfer to commercial production.

MANUFACTURE

We provide specialized manufacturing of lab scale, clinical and commercial finished dosage forms across our technology platforms.

TECHNOLOGY PLATFORMS & CAPABILITIES

BIOAVAILABILITY ENHANCEMENT

Salt screening / selection
Micronization
Spray-dried dispersions (SDDs)
Hot-melt extrusion
Lipid / liquid-based formulations
Liquid-filled hard capsules, soft gels, lipid multiparticulates
Nanotechnologies
Nano-milling, nano-crystals

MODIFIED & TARGETED RELEASE

Gastric resistant capsules
enTRinsic™ drug delivery technology
Multi-particulate technologies
Fluid-bed layering, extrusion / spheronization, mini-tabs, lipid multiparticulates
Fixed dose combinations
Bi/tri-layer matrices, capsule-in-capsule technology
Osmotic / zero-order technologies
Colonic delivery technologies

CAPSULES / ENCAPSULATION

Widest portfolio of innovative capsules and encapsulation technologies
Vcaps Plus® 2nd generation HPMC capsules
Specialized capsule polymers, designs and applications
Leading standards of quality and regulatory stewardship
Unmatched global footprint & service capability
Comprehensive R&D support and supply programs

SPECIALIZED APPLICATIONS

Inhalation formulations
Spray drying-particle engineering, micronization, DPI capsules
Bioprocessing & Bioformulation solutions
Pediatric formulations
Multi-particulate processing options, orally dissolving tablets, sprinkle capsules, taste-masking
High-potency API / low dose applications
Abuse deterrent forms