

# EXPERIENCE UNRIVALED

## DRUG PRODUCT

**AbbVie Contract Manufacturing delivers advantages** beyond a typical CMO to the drug product market. As a leading pharmaceutical developer and manufacturer, we have a large and diverse scientific team who bring an extensive depth of knowledge and experience. This can make a significant difference to your product, from development phases to commercialization. We have the flexibility of seven facilities in North America and Europe offering drug product manufacturing. We also have one of the most trusted reputations in the industry for reliable, high-quality delivery.

### SOLID DRUG PRODUCT MANUFACTURING

#### Massing

- › Dry and wet massing processes utilize high shear (75 L, 300 L and 1,200 L scale) or low shear
- › Fluid bed drying and warm air tunnel dryers
- › Spray granulation (400 L – 1,100 L scale)

#### Compression/ Encapsulation

- › Multitude of gravity and induced-fed machines with pre-compression capabilities for tablets, caplets, and hard gelatin capsules
- › Semi-solid encapsulation
- › Over encapsulation
- › 100% check weighing
- › Multi-component encapsulation

### MANUFACTURING BENEFITS

- › Robust network of drug product facilities accelerate scale-up through commercialization
- › Seven global drug product manufacturing sites
- › Five locations for packaging and printing
- › Network that delivers broad flexibility in scale and location

#### Blending

- › V-blenders (2 cu. ft. – 150 cu. ft. scale)

#### Coating

- › 24- and 60-inch coater (Accela-Cotas)
- › Wurster coating (100 L – 775 L scale)

#### Other available specialties

- › Gradumet chamber
- › Liquid reactors (75 L – 4,000 L scale)
- › Hot Melt Extrusion
- › Automated blending
- › Solvent capabilities
- › PAT capabilities for variety of processing and packaging equipment

#### CONTRACT MANUFACTURING

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## DRUG PRODUCT

### LIQUID / OTHER PRODUCT MANUFACTURING

#### Manufacturing

- › Multitude of jacketed and non-jacketed vessel varying from 75 L–6,800 L capacity
- › Topical ointment capability
- › Suppository manufacturing

#### Dosage finishing

- › Filling and packaging of glass and plastic bottles
- › Pouching for suppositories
- › Metal and plastic tube filling for ointment
- › Tamper-evident neck banding
- › 2D matrix unit serialization (track and trace)

### PRODUCT FINISHING

#### Printing

- › Ackley capsule and tablet printer with vision system

#### Dosage finishing

- › Automated tablet counting and slide filling capability for a wider range of bottle sizes and shapes
- › Blister packaging of tablets and capsules
- › Bottle filling of tablets, capsules, liquids, granules, and creams
- › Tamper-evident, induction-sealed neck and body banding
- › Syringes
- › Sachets / sticks
- › Kit packaging
- › Track and trace

### AVAILABILITY OF DOSAGE FORMS BY REGION

				● Europe	● North America
Dosage Forms	Film-Coated Tablets ●●	Capsules ●●	Microgranules ●●	Syringes ●	
	Chewable Tablets ●●	Syrups/Suspensions ●●	Sachets/Sticks ●	Over-Encapsulation ●	
	Modified-Release Tablets ●●	Sprays (non-pressurized) ●●	Liquids ●●	Ointments/Creams ●	
	Multilayer Tablets ●●	Granules ●●	Hot Melt Extrusion ●●		