

Experience Unrivaled

Hot Melt Extrusion

AbbVie Contract Manufacturing offers proprietary hot melt extrusion (HME) technology in both the US and Europe. AbbVie is the global leader with more than thirty years of HME extrusion development experience and the most commercial products launched utilizing this unique technology. HME is a robust process that effectively addresses the need to enhance bioavailability of a poorly soluble and potent APIs.

ONE PROVEN PHARMA PARTNER OFFERING UNIQUE SOLUTIONS TO ENHANCE BIOAVAILABILITY

AbbVie's Experience

- Unparalleled industry leader with more than 30+ years of formulation and manufacturing know how
- Integrated development and commercial manufacturing
- Most commercial products launched (>7)
- Academic collaborations to drive innovation; highest rate of HME technical publications

Product Enhancements

- Improved bioavailability via formulation expertise.
- Achieve & optimize amorphous solid dispersion (ASD)
- Enhanced solubility: Excellent integration of difficult-to-dissolve APIs
- Technology able to offer taste-masking and abuse deterrence

Process Advantages

- Solvent free and continuous processing
- Wide range of scale to grow with product needs
- End to End manufacturing from extrudate to packaged drug product production



CONTRACT MANUFACTURING

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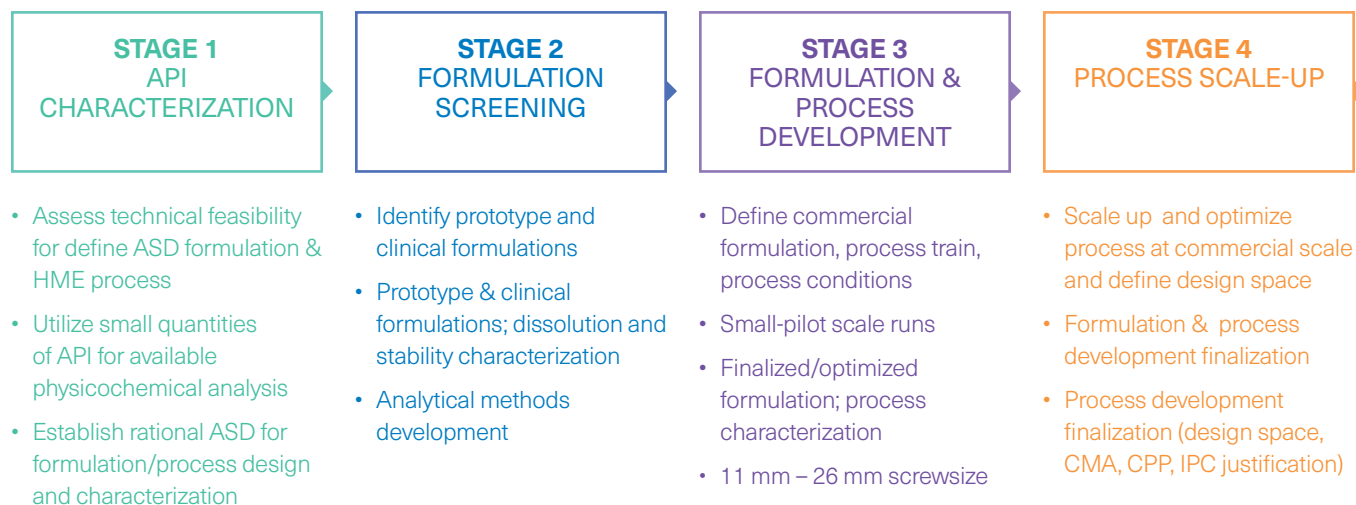
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Hot Melt Extrusion

AbbVie can take your product from Phase I to commercialization.

Product Development



Commercial Manufacturing

10+ extruders in network

- 18 mm – 70 mm screw size
- Multiple OEMs (Liestritz, Coperion, Bosch)
- Potent capability (<1 µg/m³)
- Extensive experience in various equipment manufacturers, screw size, block and exit die configurations
- Scale-up and technical transfer from site to site
- Melt granulation (continuous)

Manufacturing sites in US and Europe

- Barceloneta, Puerto Rico
- Ludwigshaven, Germany

Downstream Manufacturing Options

- Controlled Release
- Modified Release
- Tablets (including multi-layer)
- Capsules

Packaging Options

- Blisters
- Bottles
- Sachets/Sticks
- Wallets

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