



SCALE UP & TECH  
TRANSFER



DOSAGE  
FORMS



PACKAGING



(see reverse for  
more details)



# Meeting Your Manufacturing Needs.

Our manufacturing capabilities cover a wide variety of drug product manufacturing and packaging technologies in many dosage forms. We handle large molecule products as well as small molecule products. We specialize in solid dosage forms, liquid, gel, cream and ointment products, sterile gel, cream and ointments and finished goods packaging.

With over 30 years of experience, multiple specialized teams, and full-service FDA (both CBER and CDER), MHA and DEA (CI-CV) facilities, Halo Pharma can meet your project's commercialization needs. We understand the importance of quality, and we ensure that our clients' products are manufactured to the highest standards of product quality and regulatory compliance.

## ► SCALE UP & TECH TRANSFER

Utilizing Halo's Pharmaceutical Development and Testing capabilities provides for a seamless, efficient transition to full commercial scale-up. Development, scale-up and commercialization can be easily facilitated and performed at the same location. For customers who need to change their Manufacturing supply chain for an existing product, Halo's experienced staff can manage all aspects of the technology transfer process.

## ► SUPPORTED DOSAGE FORMS

- Compressed tablets
- Micro and miniTablets
- Highly Potent Compounds
- Aqueous Film Coated Tablets
- Capsules
- Controlled Release Beads
- Powders
- Liquids
- Creams
- Ointments
- Sterile Semi-solids
- Suppositories

► **SOLID DOSE CAPABILITIES:**

| DISPENSING BOOTHS            | GRANULATION                                                                                                | DRYING                           | SECURITY SCREENING | LUBRICATION                                                                   | COMPRESSION                                                                                                    | ENCAPSULATION                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Vertical laminar flow booths | Vertical high shear<br>Fluid Bed Top Spray<br>Horizontal High Shear<br>Aqueous and ethanolic<br>Wet Sizing | Fluid Bed Drying<br>Static Ovens |                    | Bin and V blenders match a variety of batch sizes<br>48" and 60" Accela Cotas | Kilian and Fette single & double rotary<br>Bi-layer tablets<br>Gravity feeding from granulation feed mezzanine | IMA and Bosch Encapsulators<br>Capsule sorting<br>Bosch KKE and Quali-caps |

► **LIQUID/SEMI-SOLID DOSAGE CAPABILITIES:**

- Oral liquids
- Creams and Ointments
- Aqueous and solvent based systems
- Oral suspensions
- High shear homogenization
- Aqueous and solvent based premixes
- Topical gels of low to medium viscosity
- Product heating and cooling
- Full packing capabilities into glass or plastic

► **STERILE SEMI-SOLID CAPABILITIES:**

- Sterile suites offer through the wall sterile filtration at 0.2 microns
- All compounding is carried out in a class C area
- Ability to add sterile API via an aseptic transfer vessel using glove ports
- Gamma irradiated sterile components transferred via aseptic processes through transfer docks into filling area
- Components are filled under Class A conditions

► **PACKAGING:**

Halo has the ability to package solid, liquid, and semi-solid non-sterile and sterile dosage forms into a variety of final packages ready for consumers...or in any form customers need. Primary packaging is conducted in enclosed rooms isolated by air pressure differential from secondary packaging operations.

- Bottles with regular and child resistant closures
- Tamper evident seals
- Plastic and glass bottles
- Slat counters on all solid dosage form lines
- Blister packs with PVC, PVDC, Aclar and other flexible materials
- Aluminum and child resistant blister liddings
- Hospital unit dose and physician samples
- Aluminum and laminated Tubes
- Low volume powder filling in glove box/isolator

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