



Drug Product Manufacturing

The BioDuro Advantage

BioDuro's cGMP manufacturing operations focus on quality, efficiency and reliability ensures timeliness for your clinical trials. A highly skilled manufacturing team with technical support from formulation scientists, mobile processing equipment and flexible suites combined with compliance oversight from an experienced QA department reflect our commitment to excellence in performance and the highest standards of quality of your manufactured product. Our capabilities range from the more specialized spray-drying and hot melt extrusion processes, to standard upstream, concurrent and downstream processing for tablets, capsules, powders for reconstitution, topicals, and non-sterile liquids, among others.

Manufacturing Capabilities

Tablets

- Immediate Release Tablets
- Coated Tablets
- Matrix Tablets

Capsules

- API in Capsules
- Blend in Capsules
- Liquid in Capsules
- Pellets in Capsules

Other

- Coated Pellets, Coated Beads
- Controlled Release Beads
- Oral Liquids
- Gels/Ointments

Related Capabilities

Particle Size Reduction

- Milling
- Micronization
- Nano Milling

Amorphous Dispersions

- Spray Drying
- Hot Melt Extrusion

Granulation

- Wet Granulation
- Roller Compaction
- Fluid Bed Granulation

Coating

- Pan Coating
- Fluid Bed Coating



	Equipment	Manufacturer	Scale
Spray Dryers	<ul style="list-style-type: none"> Anhydro MicraSpray 35 Anhydro MicraSpray 150 Nano Spray Dryer B-90, B-290 Solvent Rated Convection Oven Solvent Rated Vacuum Oven 	<ul style="list-style-type: none"> SPX SPX Buchi Gruenberg Binder 	<ul style="list-style-type: none"> 1-3 kg/hr solvent evaporation 8-15 kg/hr solvent evaporation 150 ml/hr solvent evaporation -- --
Twin Screw Mixers/ Hot Melt-Extruders	<ul style="list-style-type: none"> ZSE-18, 18mm Nano 16, 16mm (non-GMP) Haake MiniLab II Micro Compounder Gravimetric Feeders Cooling Conveyor BT 25 Pelletizer 	<ul style="list-style-type: none"> Leistritz Leistritz Thermo Fisher K-Tron Dorner Scheer Bay 	<ul style="list-style-type: none"> 1-5 kg/hr 0.1-0.5 kg/hr 1-10 grams -- -- --
Tablet Compression	<ul style="list-style-type: none"> XL-100 Single-Sided Rotary Globe Pharma Manual Tablet Deduster Tablex Metal Detector 	<ul style="list-style-type: none"> Korsch Globe Pharma Key International Mettler Safeline 	<ul style="list-style-type: none"> 60,000 tablets/hr Single Station Manual 550,000 tablets/hr --
Encapsulation	<ul style="list-style-type: none"> Xcelodose 600S Profill 1100 PAM AF40T Dott Bonapace InCap 	<ul style="list-style-type: none"> Capsugel Torpac PAM Pharmaceutical Dott Bonapace & C 	<ul style="list-style-type: none"> 300 capsules/hr 600 capsules/hr 40,000 capsules/hr 3,000 capsules/hr
Particle Size Reduction	<ul style="list-style-type: none"> L1A Fitzmill DASO-6 Fitzmill 50 AS Spiral Jet Mill Quadro Comil 197 DynoMill (R&D) 	<ul style="list-style-type: none"> Fitzpatrick Fitzpatrick Hosokawa Quadro Glen Mills 	<ul style="list-style-type: none"> Up to 7 kg/hr Up to 100 kg/hr Up to 0.3 kg/hr Up to 360 kg/hr >100 ml
Weight Sorter	<ul style="list-style-type: none"> SADE SP140, SP200 	<ul style="list-style-type: none"> CI Precision 	<ul style="list-style-type: none"> 2,000-5,000 tablets, capsules/hr
Coating	<ul style="list-style-type: none"> LDCS Pilot Hi-Coater LDCS Hi-Coater 	<ul style="list-style-type: none"> Freund-Vector Freund-Vector 	<ul style="list-style-type: none"> 1.5, 6, 8 L 20 L
High Shear Wet Granulation	<ul style="list-style-type: none"> Granumeist High Shear Granulator (non-GMP) 	<ul style="list-style-type: none"> Freund-Vector 	<ul style="list-style-type: none"> 1, 4, 25 L
Dry Granulation	<ul style="list-style-type: none"> Gerteis Mini-Pactor 	<ul style="list-style-type: none"> Gerteis 	<ul style="list-style-type: none"> Up to 100 kg/hr
Blending	<ul style="list-style-type: none"> Bin Blender V-Shell Blender 	<ul style="list-style-type: none"> Bohle Patterson-Kelly 	<ul style="list-style-type: none"> 5, 10, 20, 40 L 8 qt; 2, 5, 10 ft³
Fluid Bed Processing	<ul style="list-style-type: none"> Mini-Glatt (non-GMP) GPCG2 Fluidized Bed 	<ul style="list-style-type: none"> Glatt Glatt 	<ul style="list-style-type: none"> 25-375 g 3, 12 L
Packaging	<ul style="list-style-type: none"> LM3905-01 Induction Sealer Electronic Torque Tester CVC-SC202 Tablet/Capsule Bottle Filler 	<ul style="list-style-type: none"> Enercon SecurePak CVS-SC Technologies 	<ul style="list-style-type: none"> -- -- Up to 90 bottles/hr