The Jet Pulverizer Company
Jet Milling Experts Since 1946, From the Creators of the Micron Master® Jet Mill
JetPulverizer.com
Custom Processing Services

The Custom Processing Division of Jet Pulverizer specializes in size reduction of dry powders in the ranges of 0.50 to 44 microns. As an ISO 9001 and FDA registered company, we support our customers through test grinding, pilot scale, toll processing and process development. We occupy 15,000 square feet of workspace that includes sixteen dedicated processing stations. Processing resources include 12,000 SCFM of oil-free compressed air, 1,000 SCFM of nitrogen gas and 6,000 gallons of liquid nitrogen storage.

Process Technologies and Capacities

While we specialize in jet milling, we are a vertically integrated particle size reduction service provider which includes pre-crushing, blending, drying, classifying, mechanical milling, jet milling, and particle size analysis. We have expanded our offering in cGMP level processing by creating an ISO-8 Room and developing best practices for the pharmaceutical, nutraceutical and food industries.
Original Equipment Manufacturing

Our legendary Micron-Master® jet pulverizers are a complete line of jet energy mills designed to grind any type of crystalline or friable materials to your exact specifications. Our mills deliver precise, consistent and uniform processing performance with no detectable product contamination or heat of attrition.

Designed and Built to Meet Your Needs

We design, engineer and manufacture all of our mills to fit a wide range of clients' needs. From 1" Laboratory to 36" Production mills, from sanitary mills with IQ/OQ protocol documentation to commissioning, repair and parts, our OEM team is a solution for all of your fine powder applications.

- Cosmetics
- Pharmaceuticals
- Batteries
- Ceramics
- Technology
- 3D Printing

How Jet Mills Work

Size reduction is the result of the high-velocity collisions between particles of the process material itself. The interior of the chamber is designed to allow recirculation of over-sized particles, enhancing the incidence and the effect of these collisions. As particles are reduced in size and progressively lose mass, they naturally migrate toward the central discharge port, making precise classification both automatic and precisely controllable.
Typical System Arrangement

Performance Guidelines

<table>
<thead>
<tr>
<th>Mill Sizes</th>
<th>Air Required to 100 PSIG (690kPa)</th>
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<tbody>
<tr>
<td>1&quot;</td>
<td>7 SCFM [12 m³/hr]</td>
</tr>
<tr>
<td>2&quot;</td>
<td>20 SCFM [34 m³/hr]</td>
</tr>
<tr>
<td>4&quot;</td>
<td>50 SCFM [85 m³/hr]</td>
</tr>
<tr>
<td>8&quot;</td>
<td>100 SCFM [170 m³/hr]</td>
</tr>
<tr>
<td>12&quot;</td>
<td>225 SCFM [360 m³/hr]</td>
</tr>
<tr>
<td>16&quot;</td>
<td>350 SCFM [595 m³/hr]</td>
</tr>
<tr>
<td>20&quot;</td>
<td>550 SCFM [935 m³/hr]</td>
</tr>
<tr>
<td>24&quot;</td>
<td>1200 SCFM [2040 m³/hr]</td>
</tr>
<tr>
<td>30&quot;</td>
<td>1600 SCFM [2720 m³/hr]</td>
</tr>
<tr>
<td>36&quot;</td>
<td>2200 SCFM [2720 m³/hr]</td>
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Typical Feed Rates

15" Micron-Master Sanitary Mill

The Jet Pulverizer Company, Inc

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Made In the USA