A Hybrid Design

The SDM line from Union Process is a hybrid design that couples the grinding features of a batch Attritor with the performance features of a bead mill.

The Advantages of a Batch Attritor . . .
SDM Attritors share many of the same advantages of batch Attritors including:

- No expensive shaft seals to maintain
- Simple operation
- Energy efficient
- No premixing requirement
- Minimum maintenance required
- Rugged construction
- Material can be inspected and additions can be made at any time during the grinding cycle
- Compact design
- No special foundation needed

. . . with the Added Features Necessary to Accomplish Bead Milling

Additional advantages of the SDM design are:

- Specially designed shaft and discs configured to accommodate bead milling (using mini media from 0.25 to 3 mm)
- High shaft speed (from 400 to 4000 RPM) to energize small media

Model 10-SDM
Laboratory Models

01-HDDM
- Designed for small media from .10mm to 2mm
- Features a mechanical drive or an electronic variable speed drive system
- Runs at RPMs from 1000 to 4200
- Optional side discharge valve and/or bottom plug valve (both available for stainless steel tanks only)
- Can be purchased as a combination model with 01-HD (referred to as 01-HD/HDDM)

05-SDM and 1-SDM
- Designed for small media from .25mm to 3mm
- Features a mechanical drive or an electronic variable speed drive system
- Runs at RPMs from 300 to 3000
- Includes discharge valve and media retaining screen

Production Models

Standard Features
- Tank tilts for easy cleaning
- Includes side slurry discharge with media retaining screen
- Tank jacketed for efficient cooling
- Bottom media discharge valve

Accessories/Options

Tank Options
- Stainless Steel, Tefzel®-coated stainless steel, polyurethane, alumina (zirconium oxide, silicon nitride and silicon carbide—01-HDDM lab model only)

Agitator Disc Options
- Hardened tool steel, hardened stainless steel, plastic, zirconium oxide

Torque Meter
- Monitors precise energy consumption which is used for determining grinding time and for added quality control

ENGINEERING DATA

<table>
<thead>
<tr>
<th>ATTRITOR MODEL</th>
<th>01-HDDM 750cc</th>
<th>01-HDDM 1400cc</th>
<th>05-SDM</th>
<th>1-SDM</th>
<th>5-SDM</th>
<th>10-SDM</th>
<th>15-SDM</th>
<th>20-SDM</th>
<th>30-SDM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Capacity</td>
<td>750cc</td>
<td>1400cc</td>
<td>1.3 gal</td>
<td>2.9 gal</td>
<td>14 gal</td>
<td>28 gal</td>
<td>42 gal</td>
<td>61 gal</td>
<td>83 gal</td>
</tr>
<tr>
<td>Slurry Capacity</td>
<td>125-175cc</td>
<td>250-350cc</td>
<td>0.37 gal</td>
<td>0.6-0.8 gal</td>
<td>4 gal</td>
<td>8 gal</td>
<td>12 gal</td>
<td>16 gal</td>
<td>24 gal</td>
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<tr>
<td>Media Volume</td>
<td>280cc</td>
<td>560cc</td>
<td>0.60 gal</td>
<td>1.3 gal</td>
<td>6.5 gal</td>
<td>13 gal</td>
<td>19.5 gal</td>
<td>26 gal</td>
<td>39 gal</td>
</tr>
<tr>
<td>Height</td>
<td>39&quot;</td>
<td>39&quot;</td>
<td>46&quot;</td>
<td>60&quot;</td>
<td>88&quot;</td>
<td>91&quot;</td>
<td>97&quot;</td>
<td>104&quot;</td>
<td>110&quot;</td>
</tr>
<tr>
<td>Floor Space (W x D)</td>
<td>17&quot; x 38&quot;</td>
<td>26&quot; x 48&quot;</td>
<td>32&quot; x 54&quot;</td>
<td>36&quot; x 65&quot;</td>
<td>39&quot; x 70&quot;</td>
<td>44&quot; x 76&quot;</td>
<td>48&quot; x 78&quot;</td>
<td>52&quot; x 81&quot;</td>
<td></td>
</tr>
<tr>
<td>Machine Wt (lbs)</td>
<td>240</td>
<td>240</td>
<td>700</td>
<td>1600</td>
<td>2600</td>
<td>3700</td>
<td>4100</td>
<td>5000</td>
<td>6200</td>
</tr>
<tr>
<td>Approx Operating Wt (lbs)</td>
<td>250</td>
<td>260</td>
<td>750</td>
<td>1700</td>
<td>2950</td>
<td>4200</td>
<td>5050</td>
<td>6300</td>
<td>8100</td>
</tr>
</tbody>
</table>

GRINDING MEDIA

Union Process stocks a full line of the highest quality grinding for small media applications. Please request our comprehensive Grinding Media data sheet.