

SDM Series Attritors Designed For Bead Milling Applications

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 . . .

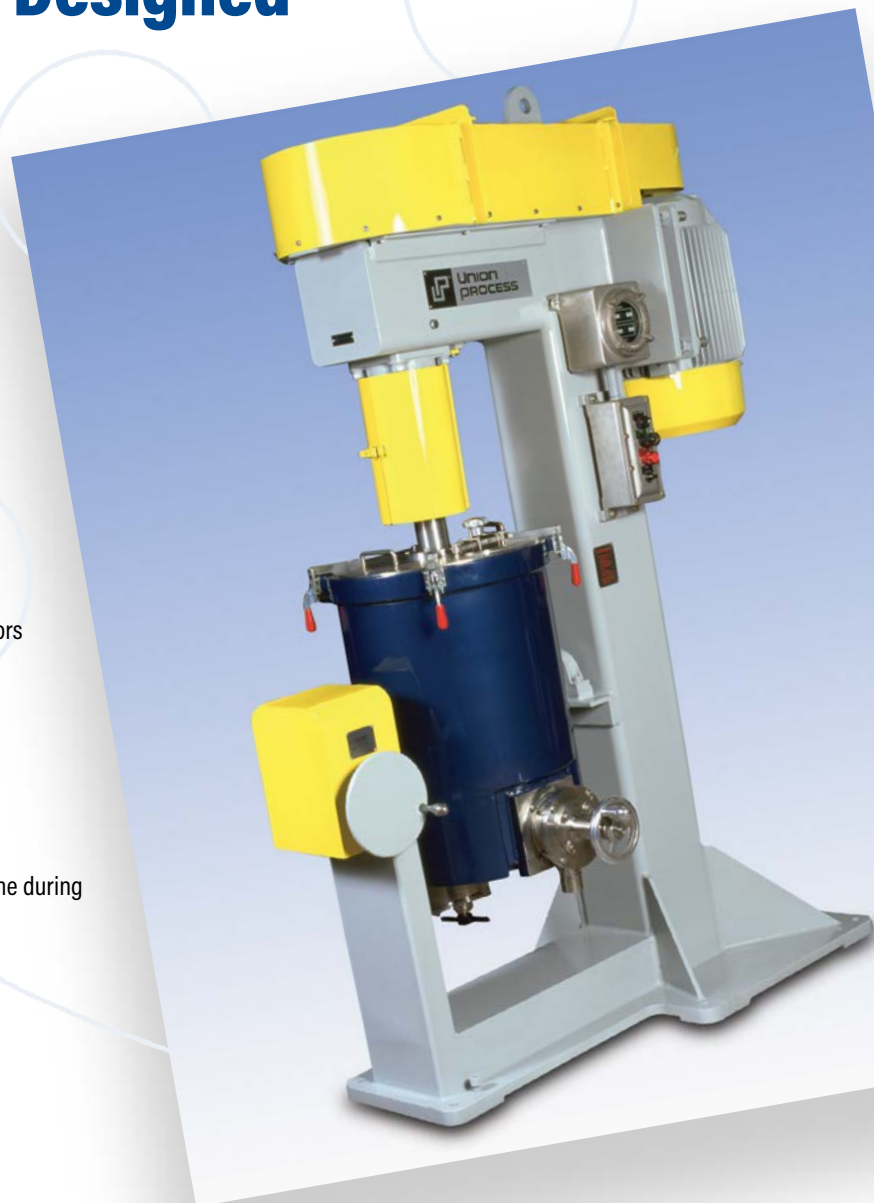
SDM Attritors share many of the same advantages of batch Attritors including:

- 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 Delta Discs or L Arms configured to accommodate bead milling (using mini media from 0.25 to 2 mm)
- High shaft speeds (from 500 to 2500 RPM) to energize small media



Model SDM-10

Laboratory Models



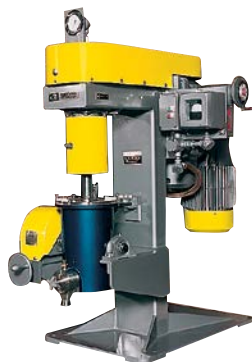
HDDM-01

HDDM-01

- Designed for small media from .25mm (or smaller) to 2mm
- Features an electronic variable speed drive system
- Runs at RPMs from 500 to 2500
- Optional side discharge valve and/or bottom plug valve
- Can be purchased as a combination model with HD-01 (referred to as HD/HDDM-01)

SDM-05 and SDM-1

- Designed for small media from .25mm to 2mm
- Features an electronic variable frequency drive system
- Runs at RPMs from 150 to 1500
- Includes discharge valve and media retaining screen



SDM-1
SDM-05 (not pictured)

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—HDDM-01 lab model only)

Agitator Disc Options

- Hardened tool steel, hardened stainless steel, plastic, zirconium oxide or L Arms

Torque Meter

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

ENGINEERING DATA

ATTRITOR MODEL	HDDM-01 750cc	HDDM-01 1400cc	SDM-05	SDM-1	SDM-5	SDM-10	SDM-15	SDM-20	SDM-30
Tank Capacity	750cc	1400cc	1.3 gal	2.9 gal	14 gal	28 gal	42 gal	61 gal	83 gal
Slurry Capacity	125-175cc	250-350cc	0.37 gal	0.6-0.8 gal	4 gal	8 gal	12 gal	16 gal	24 gal
Media Volume	280cc	560cc	0.60 gal	1.3 gal	6.5 gal	13 gal	19.5 gal	26 gal	39 gal
HP	1/2	1/2	3	5	15	25	40	50	75
Height	39"	39"	46"	60"	88"	91"	97"	104"	110"
Floor Space (W x D)	17" x 38"	17" x 38"	28" x 48"	32" x 54"	36" x 65"	39" x 70"	44" x 76"	48" x 78"	52" x 81"
Machine Wt (lbs)	240	240	700	1600	2600	3700	4100	5000	6200
Approx Operating Wt (lbs)	250	260	750	1700	2950	4200	5050	6300	8100

- Lab Machines -

- Production Machines -

GRINDING MEDIA

Union Process stocks a full line of the highest quality media for bead mill and horizontal mill applications. Please request our comprehensive Grinding Media data sheet.



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