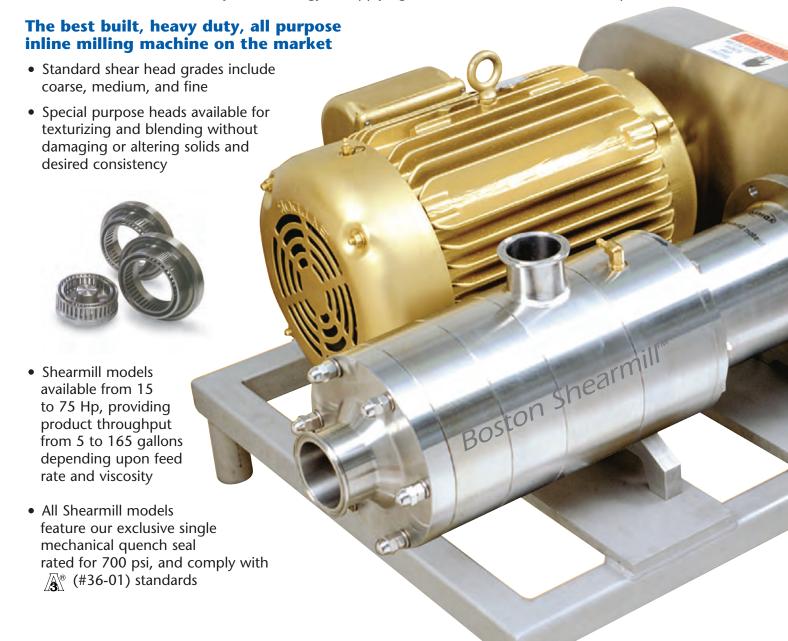
Boston Shearmill™



High Intensity Wet Milling, Homogenizing & Particle Reduction Advanced Mixing Technologies

Outperforms inline mixers, conventional shearpumps and colloid mills

The Boston Shearmill is our ultimate machine for providing high to extreme shear rates and tip speeds for maximum droplet and particle size reduction. If your process requires milling of soft particles to under 1 micron, or hard particles down to 1-2 microns, the Boston Shearmill will meet this criteria, often with just a single pass at high production rates! The Boston Shearmill has replaced colloid mills and homogenizers where submicron processing was not necessary. Existing installations include tomato paste enhancement and standardization, ketchup and mustard production, salad dressing and mayonnaise, pet foods and treats, soups and sauces, flavor emulsions, pharmaceutical preps, polymers and more. All Boston Shearmills are standard with three sets of shear heads (rotor/stator); with each head having two distinct stages for a total of six work zones. This increase in residence time between the stages allows the Boston Shearmill to create tremendous mechanical and hydraulic energy for applying maximum shear forces into the product.



The Boston Shearmill™ BSM-25, 37 & 60

While a shearpump or inline mixer will first and foremost be judged by how well it does its job, it is just as important to the user that the machine is strong enough to work day after day, year after year, with as little need for service as possible. The Boston Shearmill is designed for 24 / 7 operation, through your most critical processing schedules when downtime is not an option.

Combining the well-proven rotor-stator principle with the latest innovations in seal design and bearing support technology, Boston Shearmill's engineers created a series of inline mixers of deceptively simple but exceptionally durable design. Their goal was a superior piece of equipment which would outperform all others in its class and that would be so rugged that downtime would be reduced to an absolute minimum.

Models & Specifications						
Model	Tip Speed	Throughput	Motor / Speed	Fittings	Weight (lbs)	Footprint
BSM 25	115 FPS (35 MPS)	5-15 GPM	15 HP@10000 RPM	1.5" In/1" Out	450#	26"x27"x21"H
BSM 37	115 FPS (35 MPS)	15-50 GPM	25 HP@7300 RPM	2.5" In/2" Out	750#	30"x30"x24"H
BSM 60	94 FPS (28.6 MPS)	40-165 GPM	50 HP@3600 RPM	3" In/2" Out	1500#	64"x25"x27"H

variations from coarse to ultrafine slots. Outlet 3 The Seal: A single mechanical seal rated for 700 PSI with a unique low-pressure cooling loop. Complies with U.S. and European hygienic standards. Double mechanical seal optional. Inlet **The Bearings:** We use only Super Precision Ball Bearings (ABEC 7) with abundant strength for high-speed work. Unique preloading of each bearing protects against spikes. Running temperature is 100°F or less in operation. Protected by labyrinth seals. Complete bearing assembly installs as a cartridge for easy replacement. 4 The Shaft: Oversized. Seal Flush / Coolant hardened 17-4 Stainless. Stout enough 2 to carry three heads, and perfectly balanced for zero run-out.



Cleanability: All units bear the 3-A symbol. All surfaces and welds are machined and polished to a 32 Ra or better. Inside corners and slots have a radius and there are no crevices, deadlegs or open threads.

For more information:

EMPLOYEE OWNED ...
CUSTOMER FOCUSED

Design Technology

The Manufacturing Process: Rotor

and stator ports have wire-cut radii with

computer controlled precision. Double thickness housings for the bearing frame

and mixer body are built for a lifetime

bearing frame allows quick replacement

for servicing. Even our base is twice the

of use. "Cartridge" design on the

strength, weight and rigidity than

The Rotor and Stator: Closed slot design prevents twisting and bending for maximum durability, longevity and safety. Machined from massive cylinders of 316L or 17-4 SS, and dynamically balanced for smooth rotation through high speeds and bumps. Over 20

competitive machines.

and Features

Printed in USA BSM-2/15

