



Boston Shearmill®

High Intensity Wet Milling, Homogenizing & Particle Reduction

Outperforms inline mixers, conventional shearpumps and colloid mills

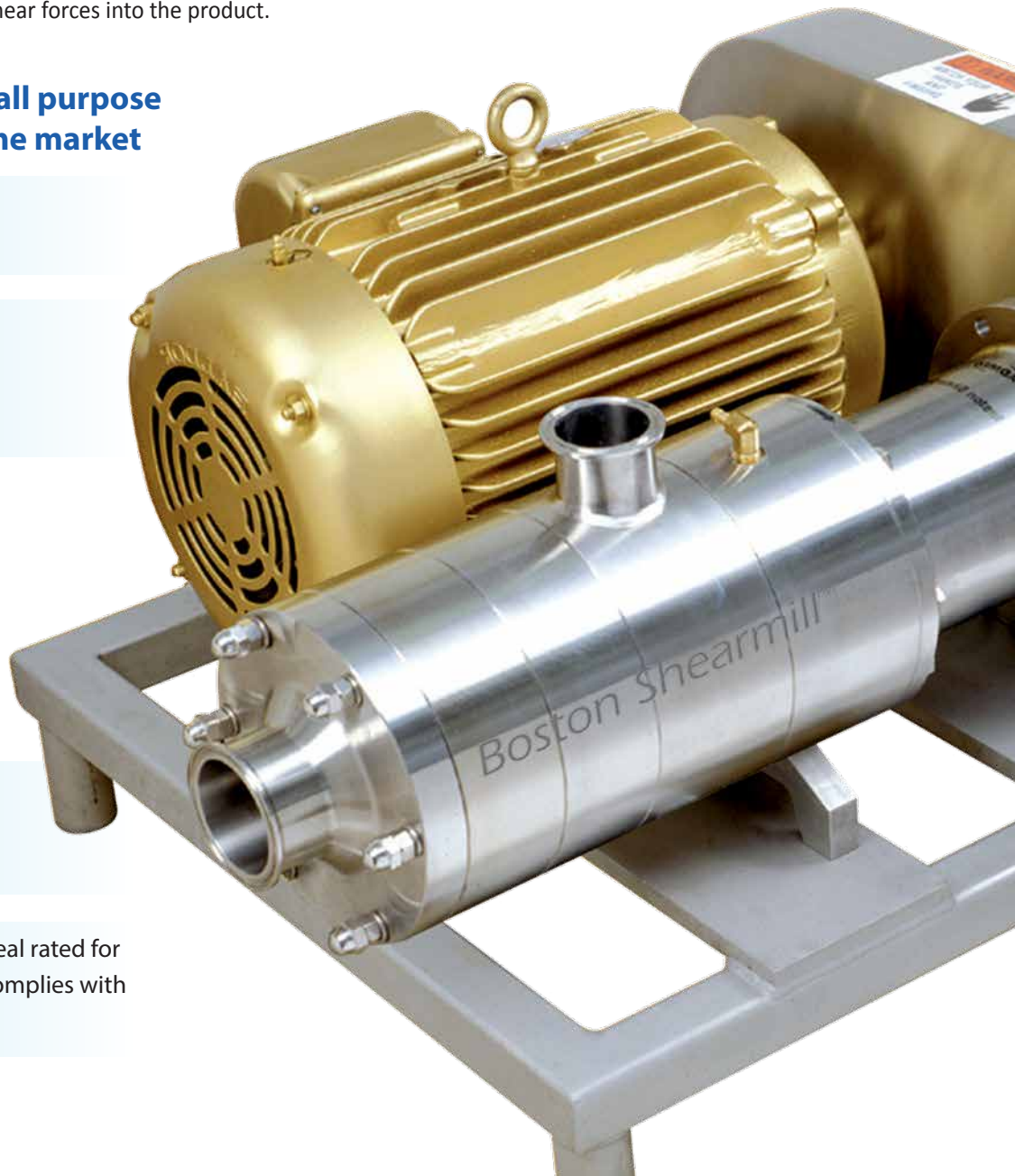
The Boston Shearmill is our ultimate machine for providing high to extreme shear rates and tip speeds for maximum droplet and particle size reduction. If your process requires milling of soft particles to under 1 micron, or hard particles down to 1-2 microns, the Boston Shearmill will meet this criteria, 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. Each rotor/stator shear head has a double ring design, resulting in three distinct, high intensity work zones at each shear head location (up to 3) where the mixture passes. Models with three shear heads provide nine high shear work zones to handle your toughest processing needs. This residence time between the stages allows for creating tremendous mechanical and hydraulic energy for applying maximum shear forces into the product.

The best built, heavy duty, all purpose inline milling machine on the market

- Standard shear head grades include coarse, medium, and fine
- Special purpose heads available for texturizing and blending without damaging or altering solids and desired consistency



- Provides 5 to 165 gal. product throughput, depending upon feed rate and viscosity
- Features single mechanical quench seal rated for 700 psi, (double seal optional), and complies with 3A (#36-01) standards 



Your Mixing Technology Partner

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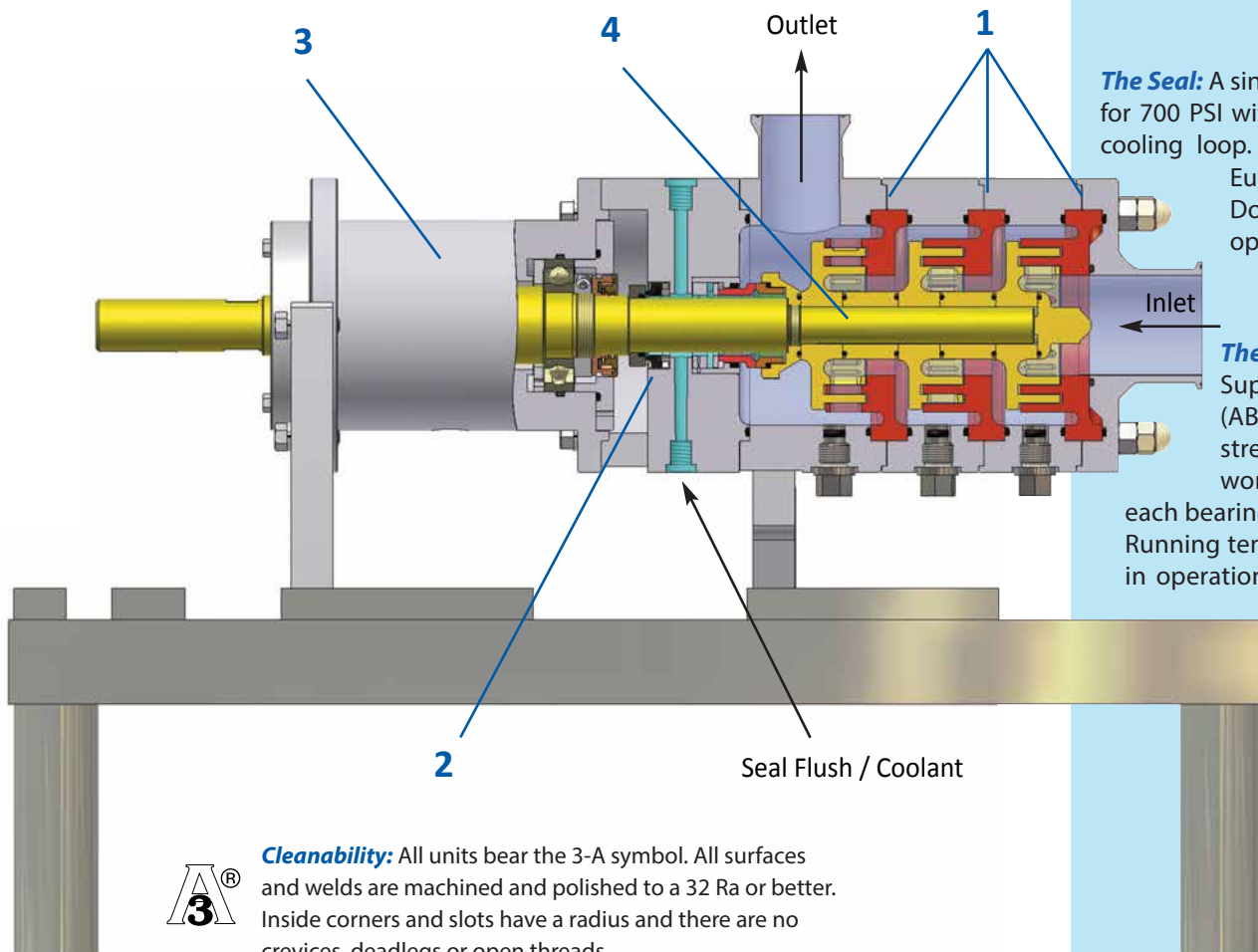
The Boston Shearmill BSM-25, 37 & 60

A wet mill should be judged by how well it does its job, but equally important is that the machine be strong enough to work day after day and 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.

The Boston Shearmill combines a well-proven rotor-stator principle with the latest innovations in seal design and bearing support technology. The design is deceptively simple but exceptionally durable. The engineering goal was to create a superior mixer that would outperform all others in its class, so rugged that downtime would be reduced to an absolute minimum.

Standard Models & Specifications

Model	Tip Speed	Throughput	Motor / Speed	Fittings	Footprint
BSM 25-3	115 FPS (35 MPS)	5-15 GPM	20 HP@10000 RPM	1.5" In / 1" Out	26"x 27"x 21" H
BSM 37-3	115 FPS (35 MPS)	15-50 GPM	40 HP@7300 RPM	2.5" In / 2" Out	30"x 30"x 24" H
BSM 60-1 & 60-3	94 FPS (28.6 MPS)	40-165 GPM	75 HP@3600 RPM	3" In / 2" Out	64"x 25"x 27" H



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.

Design Technology and features

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 of use. "Cartridge" design on the bearing frame allows quick replacement for servicing. Even our base is twice the strength, weight and rigidity than competitive machines.

1

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 variations from coarse to ultrafine slots.

2

The Seal: A single mechanical seal rated for 700 PSI with a unique low-pressure cooling loop. Complies with U.S. and European hygienic standard. Double mechanical seal optional.

3

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, hardened 17-4 Stainless. Stout enough to carry three heads, and perfectly balanced for zero run-out.