



The RBTNS Biotech Mixer incorporates leading-edge Chemineer mixing technology in a competitively priced, high-performance design.

Built to sanitary specifications, the RBTNS Biotech Mixer is the ideal mixing solution for batch processing within the food and beverage, specialty chemical, pharmaceutical and biotechnology industries.

A Rugged Performer

Designed to be one of the most durable units on the market today, the RBTNS Biotech Mixer includes a series of cost-effective standard features to deliver a lifetime of reliable operation:

- Single steam port in seal housing
- Single mechanical seal with proprietary acoustic absorption ring
- Standard NEMA C-face motors
- Tapered roller gear drive output bearings
- Ball radial shaft support bearing
- Solid stainless steel mounting flange
- Closed-base, cast iron pedestal

Process Flexibility

With the ability to blend water-like and moderately viscous liquids quickly and efficiently, the RBTNS Biotech Mixer is flexible enough to provide the optimum mixing performance your critical sanitary processes demand. When compared to competitive offerings, the RBTNS Biotech Mixer features an array of advanced design benefits unmatched in the industry:

- Shorter sterilization times for reduced operating costs
- Quiet operation
- Readily available standard replacement motors
- Less seal runoff
- More rigid, longer lasting seal assemblies
- Maximum corrosion- and heat-resistance

RBTNS Biotech Mixer



RBNS Biotech Mixer Technology

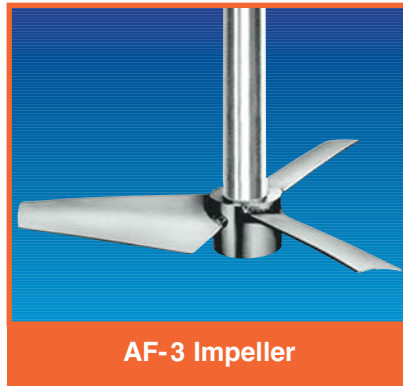
Refined through extensive field testing, the Chemineer RBNS Biotech Mixer is built with your sanitary processes in mind. Its optimized design features a single steam port located in the seal housing allowing for rapid, even heating while ensuring thorough sterilization. Unlike most competitive mixers that have two steam ports, the RBNS Biotech Mixer dramatically reduces cleaning time to get you back on-line, fast! Additionally, all wetted parts including oversized shafting, in-tank couplings and impellers are fabricated from 316 stainless steel then polished to a 32AA finish for complete corrosion-resistance and cleaner sanitary surfaces.

The right-angle gear drive unit provides a compact, low-profile, reducing the amount of headroom necessary for top-entering applications. An optional vertical motor alignment is suitable for situations where height constraints aren't an issue.

The RBNS Biotech Mixer is equipped to provide precise mixing power for increased process flexibility and energy efficiency. Choose from a standard shaft speed of 350 rpm or optional variable speed controls. Variable frequency electronic controls provide the responsive speed changes that many of today's critical batch processing applications demand.



Variable Speed Drive Delivers Precise Mixing Speed.

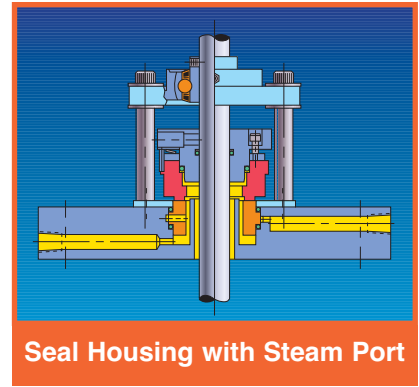


AF-3 Impeller

Impeller Technology

Whether your mixing requirements call for special flow patterns, intense high-energy investment or uniform blending, Chemineer has the impeller solution for your RBNS Biotech Mixer.

Proper impeller selection and design have a direct effect on process performance and operating efficiency. At Chemineer, our advanced, in-house mixing laboratory combines the latest testing software, data evaluation methods, and innovative lab research techniques to provide



Seal Housing with Steam Port

you with the optimum impeller design. Engineers evaluate mixer speed and horsepower, agitation intensity, and the effects of fluid density and viscosity to determine the optimum impeller design. The result is the efficient transformation of rotating mechanical motion into fluid agitation for your application.

Choose from the AP-3 propeller, the high-efficiency, axial-flow HE-3 impeller, or the AF-3 hydrofoil impeller design. Chemineer impellers produce maximum pumping action with minimum energy loss to reduce your overall operating costs.

Specifications

	2BTNS	3BTNS	2RBNS	3RBNS
Standard NEMA C-Face Motors	Yes	Yes	Yes	Yes
Horsepower	1/4 - 1	2 - 3	1/4 - 1	2 - 3
Shaft Diameter	7/8"	1-1/2"	7/8"	1-1/2"
Vertical Gear Drive	Yes	Yes	No	No
Right Angle Gear Drive	No	No	Yes	Yes
AF-3 Impeller (std)	Yes	Yes	Yes	Yes
AP-3 Propeller (opt)	Yes	Yes	Yes	Yes
HE-3 Impeller (opt)	Yes	Yes	Yes	Yes
Standard Shaft Speed	350 RPM	350 RPM	350 RPM	350 RPM
Variable Speed Drive	Optional	Optional	Optional	Optional



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