

# Rotosolver® II



The Ultimate **Energy Saver** High Shear Mixer

*Advanced Mixing Technologies*

The **Gold Standard** just went  
**Platinum**

PATENT  
PENDING

**30% LESS ENERGY  
CONSUMPTION**

**10% IMPROVED  
DISPERSION**

- Reduce energy consumption by 30%
- Increase overall shear rates
- Reduce batch times for increased capacity
- Improved cleanability
- Retrofit available for existing installations
- Wet out & disperse Carbopol®, Methocel®, Opadry®, Avicel®, CMC, xanthan and guar gum, soy proteins, starches, pectin, carrageenan and other "tough" hydrocolloids and ingredients

Your Mixing Technology Partner . . . [www.admix.com](http://www.admix.com)

## Rotosolver II is simply a better design

Combining customer feedback with our extensive applications experience and over 6,500 Rotosolver high shear mixers in service, we were able to identify an immediate opportunity to further refine our existing Rotosolver design to better address today's processing concerns. Our mandate was clearly defined:

- Reduce energy consumption per gallon / liter of product produced
- Improve CIP'ability
- Increase production capacity
- Enhance the ability to handle even wider and higher viscosity ranges

## Rotosolver II delivers performance & efficiency

Admix's Rotosolver high shear mixer has been well known as an industry leader since 1993. Our goal was to enhance our existing Rotosolver design and make it even better, offering processors a significant improvement in performance and efficiency.

- **30% Less Energy Consumption:** through extensive streamlining, utilizing the latest CFD software and rigorous physical testing, our new Rotosolver II mixing impeller has been designed to efficiently apply every bit of energy to produce either mechanical or hydraulic shear and optimally direct flow that is beneficial to the process.

- **10% Improved Dispersion:** achieve the same or better results in less time! The Rotosolver II design offers an increase of over 115% in the mechanical high shear surfaces, more than double the shearing edges.

- **Easier-to-Clean Design:** We opened up the mixing chamber to ensure that conventional CIP procedures provide maximum cleanability.

### Rotosolver II features & benefits

Admix's comprehensive application knowledge and sanitary mixer design expertise provide the capability to custom tailor a unit specific to your needs, your tank and your process. The true measure of our capability is providing a 100% guaranteed solution to your specific challenge. Our process warrantee insures that your mixers will meet or exceed the performance you expect.

Rotosolver II units will be available from the BenchMix series for your development lab up to 150 HP production models.\*

- Easy to upgrade, ask us about retrofitting your existing Rotosolver units or replacing other inefficient high shear mixers and dispersers.
- Single shaft design with optional in-tank sanitary shaft couplings easing installation in tight spaces
- Superior clean-in-place capability
- Meets 3-A (#73-01), USDA-AMS and USDA-Dairy sanitary standards
- Stainless steel drives
- A wide range of seal options to meet your specific need
- 316L wetted parts with all welds blended and polished to 30Ra or better as standard
- Seal options include standard CIP up through double mechanical

**Call us today at 800-466-2369  
for more information!**

EMPLOYEE OWNED ...  
CUSTOMER FOCUSED

\* Available for shipment January 2014



[www.admix.com](http://www.admix.com) ■ 800-466-2369

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## Rotosolver II: How It Works

The Rotosolver II combines the shearing capabilities of a high speed toothed rotor and a slotted stator with the additional advantage of high flow / circulation from the dual rotor blades. This unique mixing head design provides a four-stage mixing action:

1. Product flow is drawn into the mixing head from above and below. As flow is drawn in, materials and powders pulled down from the top (typically the toughest to disperse) are immediately exposed to two (2) additional mechanical shear zones and one (1) new shear zone from the bottom. These materials are then immediately mechanically ripped by the teeth on the rotor's discharge at the top and bottom of the stator.



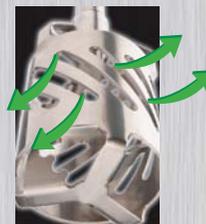
2. The two high-velocity, counter-current streams converge within the stator causing high turbulence and hydraulic shear, without momentum loss from obstructions within the stator.



3. Centrifugal pressure forces material to the periphery of the stator where it is subjected to further mechanical shear as material passes through the sharpened edges of the expanded slots in the stator.



4. The high velocity radial discharge combines with slower moving tank flow for additional hydraulic shear and circulation.



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