

# A LEADER IN THE CREATIVE MIXING INDUSTRY

Trusted Since 1976



**Low Speed  
Agitators**



**Reynolds  
Industries**

[www.reynoldsmixers.com](http://www.reynoldsmixers.com)

# LOW SPEED AGITATORS

## DESCRIPTION

The Low Speed Agitator is designed for processing hard to handle products such as: high viscosity, thixotropic and varying density products. There are several blades designs available but typically recommended is the helical blade design for maximum product turnover. The heat transfer application can be organized into two broad categories. One category is that in which open impellers operate at some distance from the vessel. The second category is a close clearance impeller such as an anchor impeller or helical impeller. Reynolds offer both category mixer with unique features such as the 3-blade patent helical blade with high temperature withstanding scraping technologies. In addition, all Reynolds agitators are supplied with rotating baffles. Reynolds baffle technology helps to break swirling to improve high heat transfer coefficient that allow to reduce horsepower. Rotating baffle integrated with RTD temperature probe that allow fast response on product temperature

## MIXER OPTIONS

- Easy Replacement Steady Bearing
- Shaft speed measurement
- CIP- system
- Single acting Dry running or Double acting fluid lubricated Mechanical seal.
- Fixed -Free high temperate withstanding Scraper
- Hydraulic Drive for highly viscous products

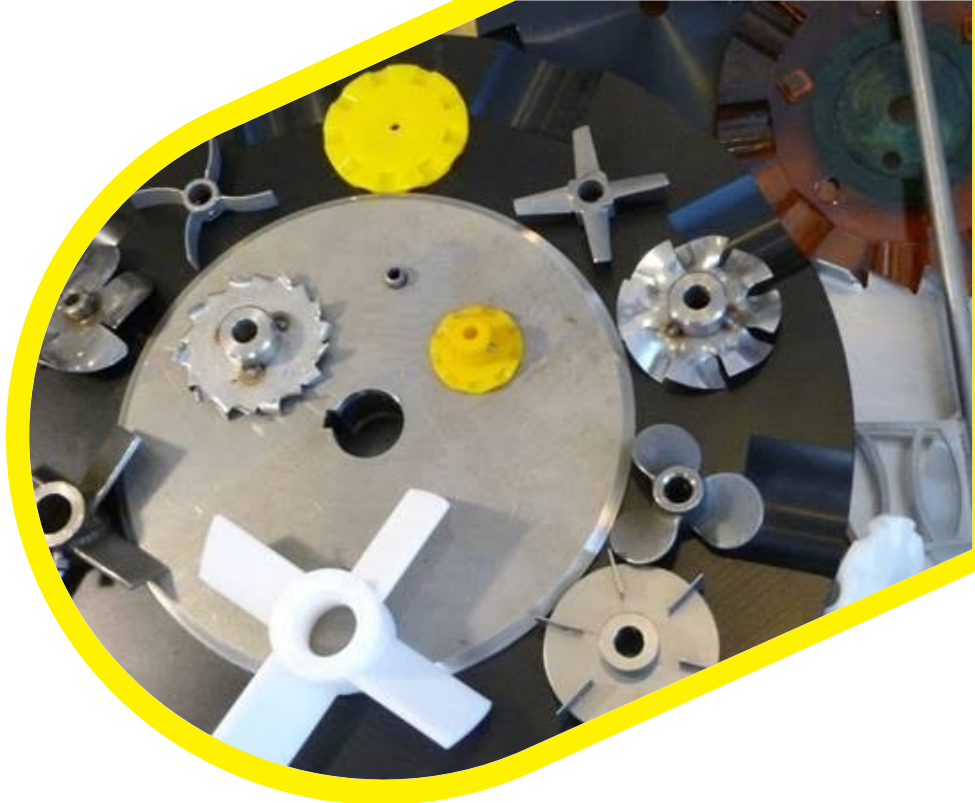


## MIXER FEATURES

- Helical Blade Low Speed Agitator with Offset rotating baffle.
- Helical Blade Rotation
  - **Clockwise Pumping Material Down**
  - **Counterclockwise Pumping Material Up**
- ASME code stamped Vessel can be designed for full vacuum/100-psig service with 150-psig dimpled, Half-Pipe, conventional stainless-steel jacket is supplied around the vessel for heating/cooling (High pressure rating is available upon request)
- Wetted parts are stainless steel polished to 120-grit for ease of cleaning (#4-8 Mirror finish is available upon request).
- Lid can be fitted with temperature probe, cleaning spray nozzles, vacuum fittings, light and sight glass, flanges and multiple product inlet nozzles for delivery of liquid raw materials.
- Minimum of 1.5 mechanical service factor on all gearing and bearings
- Submerged top down product measuring temp-probe optimizes actual product temperature.
- Available in Non-explosion proof and explosion Proof (TEFC 230/460, 3 PH, 50/60 Hz –Nema / IEC motor)

For more information on Low speed Agitators visit [www.reynoldsmixers.com](http://www.reynoldsmixers.com) or call 1-803-548-4301 to speak with mixing specialists about your application

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## MIXER APPLICATIONS

- Adhesives
- Asphalt
- Dissolving Solids
- Dyes & Inks
- Extraction
- Fertilizers
- Gas Dispersion
- Liquid Blending
- Mining
- Paints, Pigments
- Petroleum
- Reactions
- Sealant
- Slurry
- Storage Tanks
- Vitamins
- Waste Water

## STANDARD MODELS

<b>Motor Power</b>	1 – 125 HP
<b>Operating Pressure</b>	Vacuum - 150 psi
<b>Impeller-Systems</b>	Reynolds Helical Blade, (Other Impellers: Bar Turbine, Axial Flow Turbine, Spiral Backswept Turbine, Flat Blade Turbine)
<b>Materials (product wetted)</b>	Carbon steel, rust- & acid resistant steel, nickel-base alloy, Duplex- & Super Duplexsteel, titanium & titanium alloys

## OTHER INFORMATION

Reynolds Agitators are a cost -effective alternative to Sigma Mixers (Or Kneaders) and extruders. Reynolds also supplies different style blades that include Bar Turbine, Axial Flow Turbine, Spiral Backswept Turbine and Flat Blade Turbine. Ask our specialists about available blade styles.

Reynolds Industries can perform lab test on customer's products. Our process experts will design a mixing system for your new product or to help with your existing mixing process. Our engineering team will determine a cost effective and long-lasting system to meet your processing requirements. Controls can be designed to fit with your existing control systems or new control systems can be designed for ease of operation.

A world map in shades of blue with a grid pattern. White lines with dots at the ends connect various locations across the globe, representing a global network or distribution system.

**Manufacturer of process equipment since 1976**

## CONTACT US

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### **REYNOLDS INDUSTRIES PRODUCTS**

- Reynolds Dual Shaft Mixer – RDSM
- Reynolds High Speed Disperser – RHSD
- Reynolds Low Speed Agitator – RLSA
- Reynolds Coaxial Mixer – RCM
- Reynolds Sigma Mixer – RSM
- Reynolds Ribbon Blender – RRB
- Reynolds Press-out station – RPS
- Vessels
- Turn-key systems

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