



ZHEJIANG GREATWALL MIXERS CO.,LTD.













Zhejiang Greatwall Mixers Co., Ltd. (GREATWALL) was founded in 1993. But its history can be traced back to 1981. From the original manufacturer of reducers, GREATWALL has since become the leading company in China for mixing technology research, design, and manufacturing as well as the installation of agitators and mixers. GREATWALL is also well known in China by achieving many honors for "National High-tech Enterprises", "National Patents of Superior Enterprises", "Provincial Innovative Enterprises", etc.

GREATWALL invests heavily in R&D. The technical group is staffed by doctorates, professors of engineering, senior engineers and other technical specialists. Also, relying on strong collaboration with universities, such as ECUST, ZJUT, etc, GREATWALL has set up a National Enterprise Postdoctoral Research station, Provincial Mixing Research linstitute, Provincial Technical Center and Provincial Academic workstation. All these initiatives support and guarentee GREATWALL's advanced technology. GREATWALL has been awarded more than one hundred patents for mixing technology. We have specified and set 16 national and industrial standards for mixing equipment, organized mixing technology committees in China, and held three National conferences on mixing.

GREATWALL has obtained ISO9001, ISO14001 and OHSAS18001 certification. The products for export have obtained CE and ATEX certification, and cover a wide range of industries which include pharmaceutical, petrochemical, fine chemical, environmental protection, mineral processing, food and beverage, water treatment, etc.













1 MW distributed solar power station

Sustainability and green manufacturing is deeply rooted in GREATWALL's business strategy. We not only supply environmentally friendly products or



services to our customers worldwide, but also built a 1MW solar power station to provide renewable and clean source of energy to manufacture our products.

Drafted Standards

GREATWALL not only focused on the development of our products, but the whole development of the industry. As industry leader, we drafted the main industry standards on mixers, reducers and mechanical seals.

Vertical reducer for tank(HG/T 3139.1~12-2001) Impellers(HG/T3796.1~12-2005)

Technical conditions for steel stirred vessels (HG/T 2268-2008)

Mechanical agitators(HG/T 20569-2013)



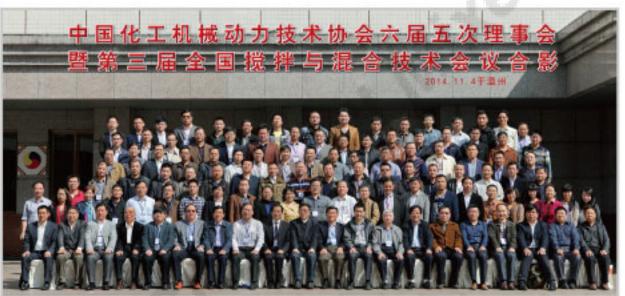
Mixing Conferences

As industry leader, GREATWALL organized the Mixing Technology Committee in China. From 2008, we organized and held 5 national mixing conferences. The conferences focused on the research, design and applications of mixers and mixing technology.

we also participated the world main mixing conferences and presented our research papers.







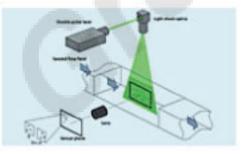
Research & Development



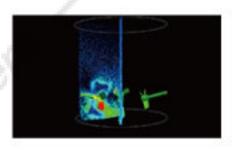
Greatwall Mixing Laboratory

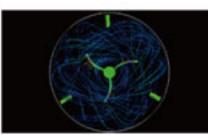
We have built one of the most advanced mixing laboratory in the world which includes high speed video imaging, Particle Image Velocimetry (PIV), Brookfield Viscometer, and the latest CFD analysis software (Fluent). In addition to laboratory sizes, testing equipments, we have fullscale testing capability for industry size agitators.

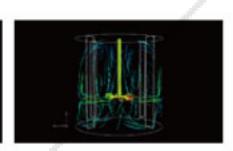




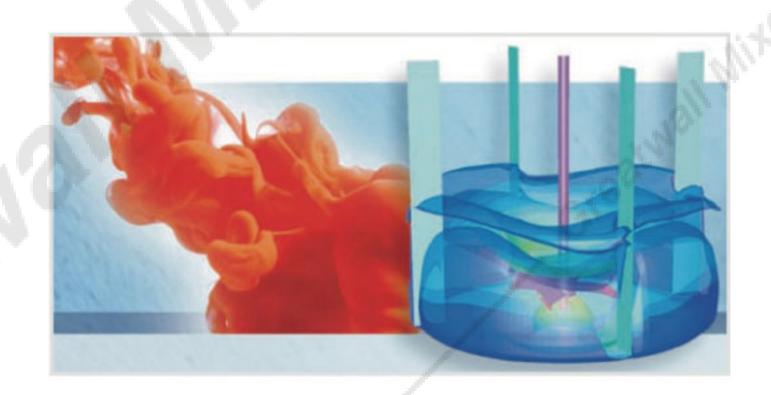
CFD - Computational Fluid Dynamics



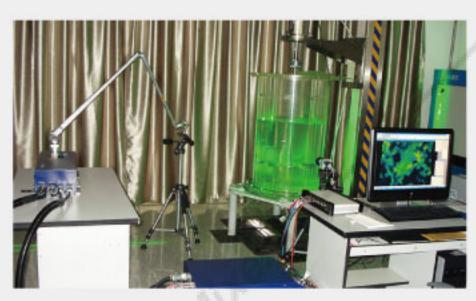


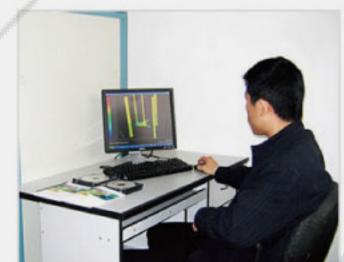


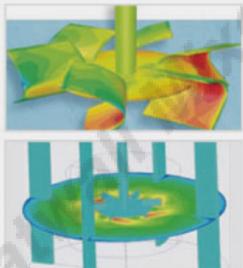
"Computational Fluid Dynamics" (CFD) could accurately predict mixing performance in large tanks including those with unusual geometry or process requirements. The combination of PIV with CFD gives us powerful tools to substantially reduce pilot or full scale trials.



PIV - Particle Image Velocimetry







Manufacturing Abilities



Lathe for Long Shaft



Workshop



Vertical Lathe

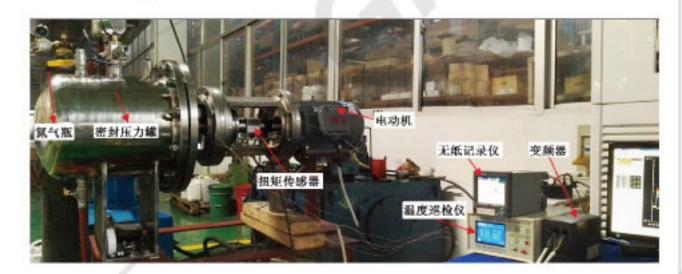


CNC Machine



Plasma Cutting Machine

Facility



Seal Test Platform for Side-entry Mixer



Spectrometer for Metal Analysis



Three-coordinates Measuring Machine



Workshop Tests for Mixers



1100kW Mixers for Fermentation Tanks



Hydrofoil impeller (6.3m) for US Ethanol Plant



Helical Ribbon impellers (3.9m) for Polymerization Tanks



3.55m Belt wheel for Belt Reducer(630kW)

Production

Top-Entry Mixers



Large - power belt mixers



Double - output shaft mixers



Right - angle gear mixers



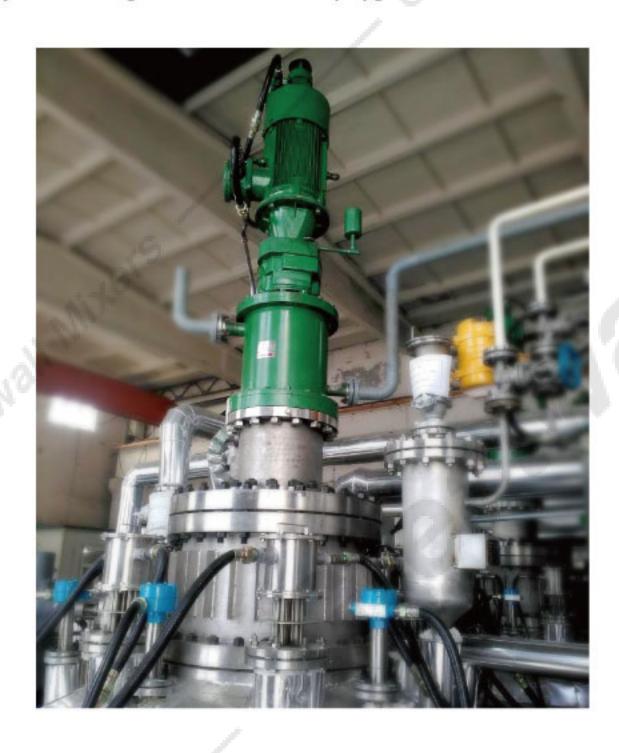
Co-axial gear mixers



Parallel shaft gear mixers

Magnetic Drive Mixers

MTC series magnetic drive mixers use permanent magnet for the transfer of torque. Different from the moving seal (such as mechanical seal or stuffing box), the static seal solves the leakage problem at last. So it is suitable for industry applications which does not allow any leakage, such as pharmaceutical, chemical, biochemical, pesticide, etc. The MTC drive mixers could be designed for both top and bottom entry type.





Type gw204H seal



Type 202F seal



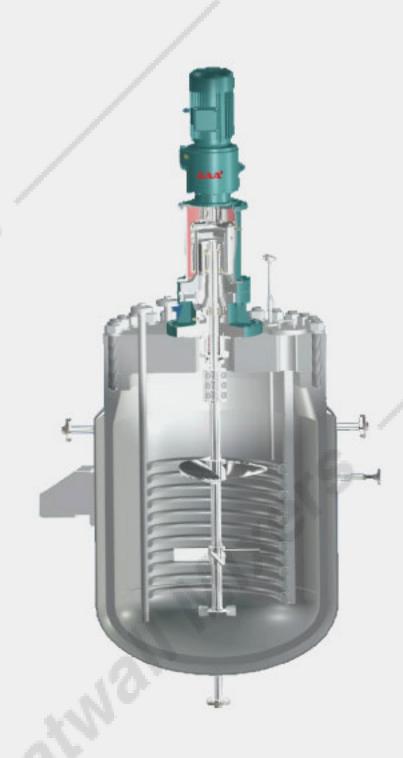
Type T286 seal



Type 2004 seal



Bottom-entry type

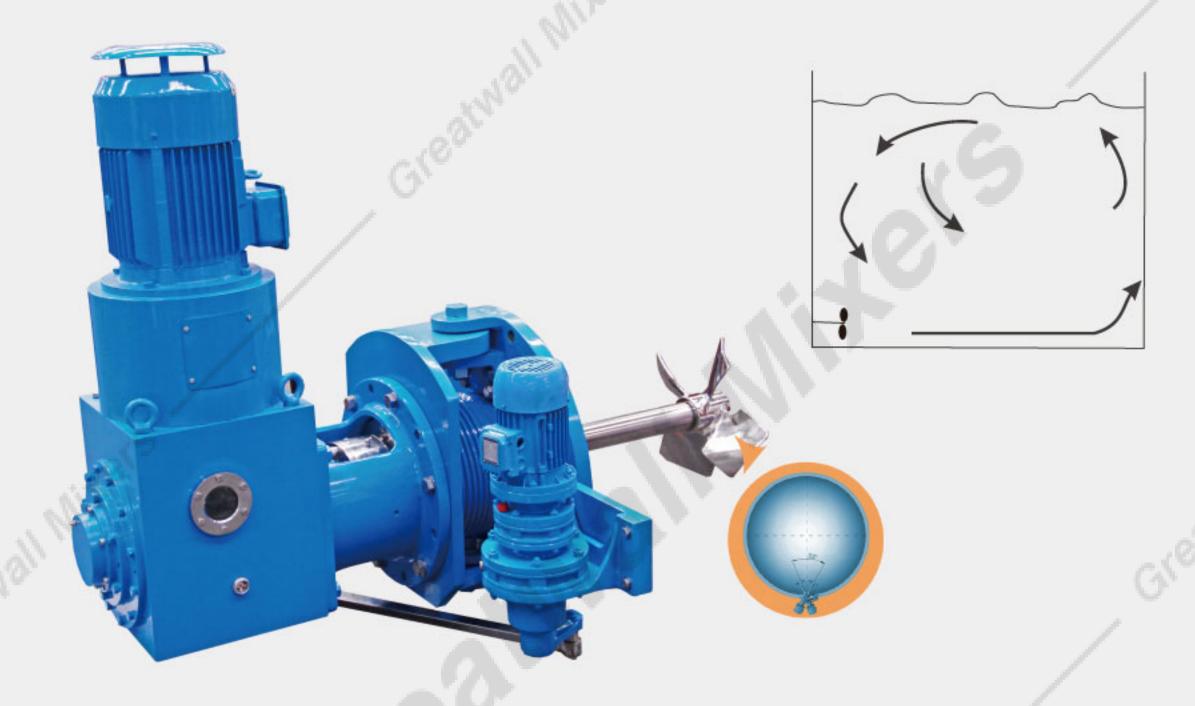


Top-entry type

Production

CKJ Swival Angel Side-Entry Mixer

- Minimum maintenance requirements
- Patent pending tank shut-off device



CFJ Side-Entry Mixer





Continuing Polymer Dissolving Test Platform



Lab Series

The lab series mixers are widely used for laboratory tests.

With acryl glass tank, the mixing effects could be seen clearly.

By adding torque meter and other instrument, the impeller power, as well as detailed flow field could be measured.





Production

Special Mixers

KJ portable mixer

The KJ portable mixer is one of the widely used mixers of Greatwall. It is specially designed for multi-purpose mixing and easy installation and movement. It possesses a broad range of features and benefits.





Large Mud Scraper or Thickener

The special drive unit for large mud scraper or thickener is widely used in water treatment, mineral and salt industries. It could be specially designed according to your special needs.



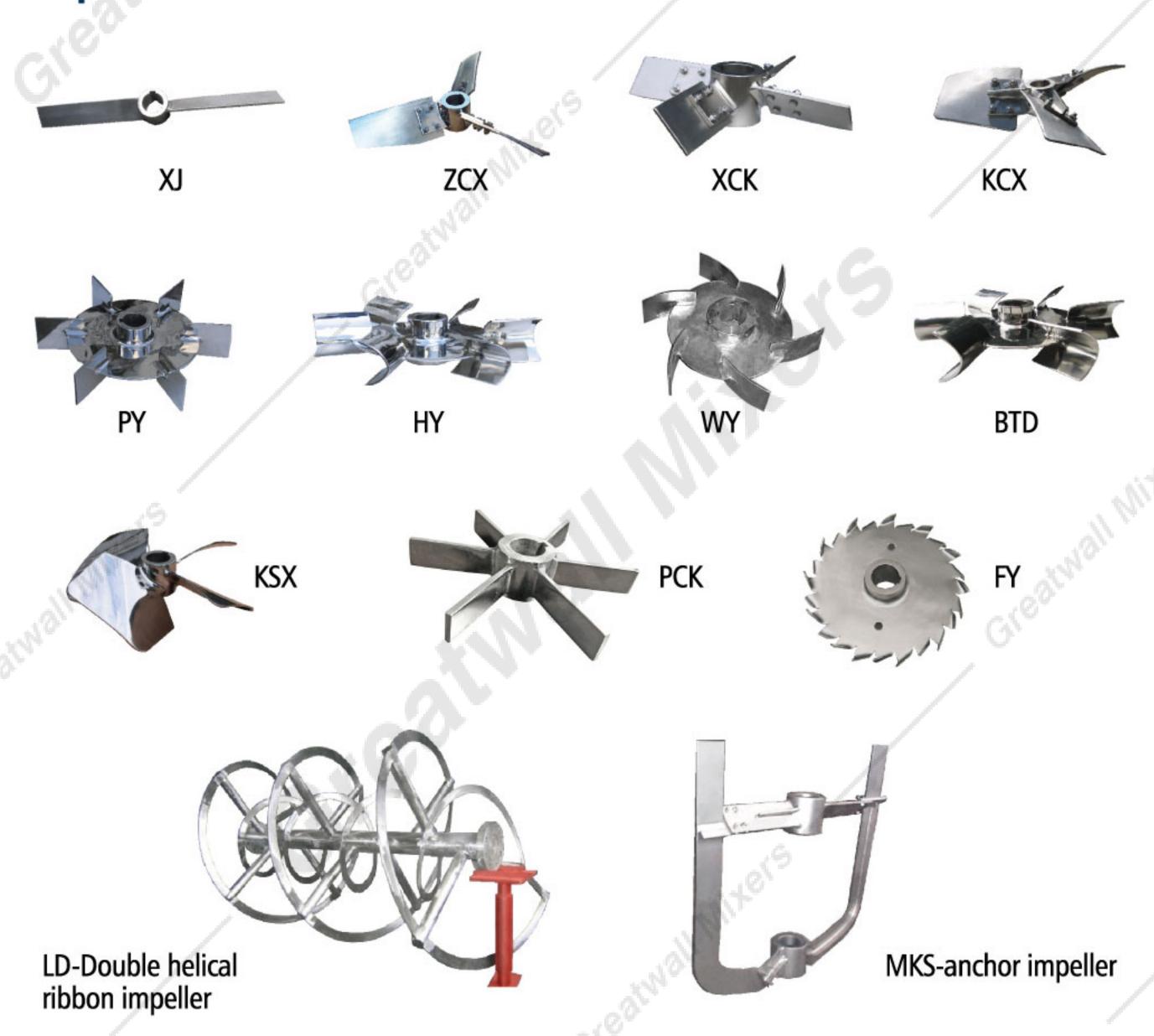




Intermediate steady bearing

Bottom steady bearing

Impellers



Impeller Selection Guide					
Application	Miscible Fluids Blending	Solids Suspension	Gas Dispersion	Immiscible Fluids Blending	High Viscosity Mixing
Impeller types	XJ, XCK, ZCX, KCX	XCK, ZCX, KCX	PY, HY, WY, BTD, KSX	PCK, FY	LD, MKS

Pharmaceutical

biological technology, fermentation, medicine



rubber, resin, polyester, lastics, chemical fiber and oil combinations

Water Treatment

water treating, purified water treating, industrial water and sewage treating







Fine Chemical

chemical reagents, fertilizer, spice, industrial drug, soap making, agricultural chemicals, organic and inorganic chemicals



APPLICATIONS



biochemical food, sugar, fermentation, cooking oil, beverage





Mineral

nonferrous metal, rate metal,rareearth element, gypsum



Coating & dyestuff

ink making, paint, coating, paper manufacture



Environmental Protection

Flue Gas Desulfurization(FGD),pollution nuisance treating, green industry

Special Machinery

macadam treatment, cement treatment, bituminous treatment, heatbarrier material, cooling fan

International Sales Network



Part of International Customers



APPLICATIONS & SERVICES















Greatwall is devoted to the manufacture of quality equipment for fluid agitation and mixing. We warrant our products to be constructed of new material and to be free from defects in material or workmanship under normal and proper use.

For our customers, we also provides expert help on installation and maintanence. Besides the user's manuals, which provide detailed maintanence specifications, we also provide direct or indirect installation and maintanence guidance.

Our parts program includes individual recommendations and review of your spare parts stock, based on your equipment and process. Our large inventory supports your stock, and provides quick fulfillment of maintanence and repair need, including standard replacement items such as seals, bearings, and lots of internal subassemblies.





AAA A Agitator Data Sheet

Please try to fill out the following data sheets as accurately and completely as possible. This will allow our engineers to find the most approprite agitator for your application. The more informa tion, the better.

Customer Info.	
Company	Date
Name	Tel
Address	Fax
Project Identification	Item
Process operation:(be specified)	
Blending & Motion	
Solid Suspension	
Gas Dispersion	
Required process results: blend time, heat transfe Dissolution rate, suspension performan	er rate, reaction rate, etc; ce; Degree of gas dispersion, O, transfer rate.
Vene al Dester	
Vessel Data	Total Elem
Volume agitated: Size Dia.(L Rv W):	Total Flow
2 by	Str. Side(
	Elliptical Cone Dept
	l Elliptical Cone Dept
Baffle: Coil Plate Wx Agitator Mounting: Open: Beam Height	L Other
Closed: ANSI	
Size of opening available for impeller: If tank construction or mounting detail are not co	
If tank construction or mounting actual are not co	impletely covered above, please skelch it.
Material	
Components: If batch, sequence; if continuous, %	Quantity Sp. Gr. Viscosity Temperature
<i>1.</i>	
2.	
<i>3</i>	
If viscosity and specific gravity data are not availab	ble, we will give assumed data for calculation.
	g. r. a.s. a.s. a.s. a.s. a.s. a.s. a.s.
Equipment Requirements	
	ttom-Entering Portable Mixer
	nperature Wetted Parts Materials
Electrical: Phase/Current/Voltage	
Service	Duty Classification
(Std or High Eff.)	(Std or Chemical) (TEEC or EXP Requirement,
Operation: 8 Hours/Day , Or Cont	
	Packing Mech Seal
Steady Bearing permitted:	Yes \(\square\) No \(\square\)
Special Statements	
" Dis.	





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