About us
We have figured it out

STELZER Rührtechnik is one of the leading companies in agitation technology and a sought-after solutions partner for project-specific process technology solutions. We have succeeded in this business since 1946. Our core business was and is the technical design and production of custom-made agitators.

Many decades of experience, research and development at our own site in Warburg have provided us with extensive process knowledge and integrated systems knowledge in a variety of sectors. The technical concept, design, production, installation and initial operation of agitators will be performed by our highly qualified staff. We rely on tested safety according to DIN EN ISO 9001 in all phases of the project.

Our STELZER and JAMIX brands provide a total of 17 agitator series to choose from. We achieve optimal results by building on our established process technology experience and on further developments based on tests under realistic conditions in our in-house laboratory in combination with CFD computer simulations. The process engineering for each agitator is individually optimised, using detailed problem and process analysis as a reliable base.
Performance spectrum

What we could do for you

Customer support and product development are tightly integrated at STELZER Rührtechnik. Give us any agitator problem and we will strive for an optimal solution. New requirements for complex processes, optimised procedures, improved quality as well as safety and productivity are part of our daily work.

Consulting
Our services range from requirements analysis and the concept phase to realistic planning. We gladly pass on our expert knowledge and maintain close information exchange with the customer.

Agitation tests
We will test the design of the agitators with original products in our agitator laboratory and search for optimisation potential - including concepts for successful scaling up.

Basic research
We perform basic research in cooperation with scientific institutes, universities of technology and other universities in connection with our IT-based process design for agitators.

Assembly
We install agitator systems in Germany, Europe and overseas and provide on-site supervision for all customer companies.

ATEX
STELZER Rührtechnik is capable of producing agitators for environments with a risk of explosion according to the ATEX Directive 94/9/EC.

CFD simulation
We are in demand as a solution partner for complex processes with Newtonian and non-Newtonian flow behaviour.

Spare parts service
We are also your partner after successful installation. We deliver spare parts quickly, flexibly and reliably to all customers worldwide.

Good to know:
Our quality management according to DIN EN ISO 9001 ensures that STELZER Rührtechnik will provide verified safety.
STELZER Agitators
Overview

**Applications**
- Waste Water Treatment
- Biotech / Pharma
- Chemicals / Petrochemicals
- Green Energy
- Hydrometallurgy + Mining
- Food
- Pulp & Paper

**SNR Standard Series**
- Motor Power: 1.1 - 110 kW
- Shaft Diameter: 40 - 125 mm

**SKR Coaxial Shaft Series**
- Motor Power: 1.5 - 160 kW
- Shaft Diameter: 40 - 200 mm

**VOXET DIN Series**
- Motor Power: 5.5 - 750 kW
- Shaft Diameter: 60 - 300 mm

**SDR/SBR DIN Series**
- Motor Power: 5.5 - 300 kW
- Shaft Diameter: 60 - 280 mm
STELZER Agitators

Overview

SM/SG Compact Series
Motor Power 0.37 - 15 kW
Shaft Diameter 25 - 60 mm

SHS/SHK Compact Series
Motor Power 0.37 - 55 kW
Shaft Diameter 40 - 125 mm

SSR Side Entry Series
Motor Power 4 - 90 kW
Shaft Diameter 40 - 125 mm

SLS Life Science Series
Motor Power 0.37 - 5.5 kW
Shaft Diameter 25 - 40 mm

hermet Mag Drive Series
Motor Power 0.12 - 7.5 kW

STELZER Rührtechnik can do more
If you should not find your industry or application among those listed, please contact us. We will certainly be able to come up with an answer to your question and a solution to your agitator problem.
JAMIX

Special solutions for special applications

Agitators of the JAMIX brand allow STELZER Rührtechnik to focus on specific customer needs. JAMIX agitators can be very efficiently made of special materials such as titanium, Hastelloy or superduplex steel.
JAMIX Agitators

Overview

Pulp & Paper “P&P”
Motor Power 7.5 - 110 kW
Shaft Diameter 60 - 110 mm

Waste Water Treatment “WWT”
Motor Power up to 55 kW
Shaft Diameter 60 - 220 mm

“Green Energy”
Motor Power up to 75 kW
Shaft Diameter 60 - 220 mm

Hydrometallurgy + Mining
Motor Power 30 - 300 kW
Shaft Diameter 80 - 280 mm

“Generator – Gassing”
Motor Power 5.5 - 200 kW
Shaft Diameter 60 - 200 mm

Applications
- Waste Water Treatment
- Biotech / Pharma
- Chemicals / Petrochemicals
- Hydrometallurgy + Mining
- Pulp & Paper
Standard Impellers/Extract
Your choice from ALPHA to ZETA

Marine Propeller

Pitched Blade Turbine 2, 4, 6 Blades

Rushton Turbine

Trapecoidal Impeller

SIGMA Impeller

ALPHA Impeller

Tooth Disc Turbine

ZETA Impeller

Anchor Impeller
Special Impellers/Extract
Covering your special requirements

- PRL-3 and PRL-5 Draft Tube Impellers
- Curved Back Turbine
- Concave Gassing Turbines (example)
- THETA/NA-Impeller
- Generator Gassing Turbine
- Segment Impeller
- D3-Impeller
- DELTA-Pharmaceutical Impeller
- Visco-Propeller
A laboratory with modern equipment is available for our tests. Suitable testing areas, already equipped with glass and stainless steel vessels in different sizes, are available for all test arrangements. The vessels can be optionally heated or cooled. Our standard agitators of various kinds include axial, radial, tangential and countercurrent flow impellers. They cover a viscosity range up to 1 million mPas.

A testing area with a coaxial agitator system is available as well. It provides optimal test conditions for tests with two agitator systems running in the same or in opposite directions. The measuring data of the practical tests are continuously registered to provide a basis for later scaling-up to original size.
CFD simulations are used at STELZER Rührtechnik for conceptual studies of new designs, product developments, verification of agitator engineering design and supplementation of tests under realistic conditions in the laboratory. They can be used to simulate tests that are not possible with real media for safety reasons. This may be due to toxic, explosive or carcinogen effects of the product.

We use CFD simulations to assess the flow conditions in the vessels and determine whether a given agitator will perform as required. It is a further advantage that the model is running using the actual dimensions and not the model dimensions. The combination of the CFD investigations with conventional agitator software ensures maximum safety regarding the process engineering design for the agitator. In brief: Belt and braces.