



# Tailor made mixing solutions





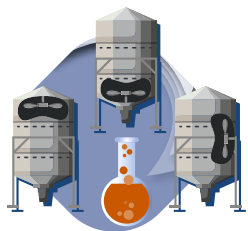
Founded in 1937, Jongia Mixing Technology built a reputation as leading manufacturer of stirring and mixing equipment. Its headquarters are located in Leeuwarden, in the north of the Netherlands. Modern, recently expanded, production facilities with state of the art machinery form the backdrop for Jongia's activities. Our high-quality mixers and other products are exported worldwide. Global reach is supported locally through a wholly owned subsidiary in the US and China and a network of associated companies and agents worldwide. At every stage of the engineering, production and installation process, Jongia strives to achieve a firm balance between price and quality.

## Expertise & competences



### Process Consultancy

In synergy with you, our client, we envision the most efficient solution for your mixing application. From our comprehensive range of top, side and bottom entry mixers, dynamic in-line mixers and powder dissolving systems we select the appropriate equipment. Recently we've added the already very successful Magitator, a magnet driven mixer, to our scope of supply. Jongia aims to meet all requirements of its clients in order to ensure process reliability and optimum quality of the end product.



### Testing

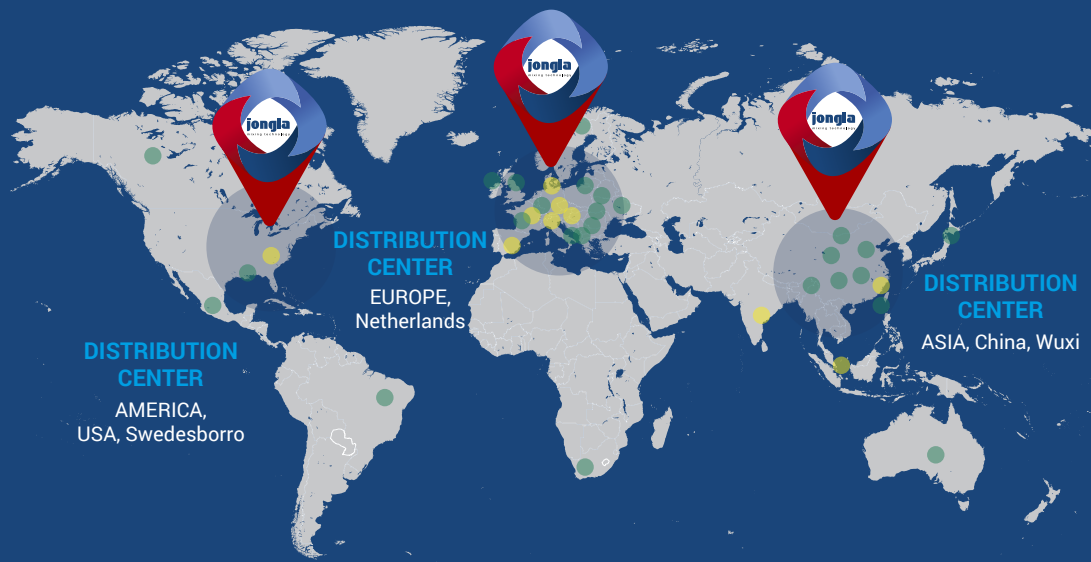
Mixing techniques are put to the test in our in-house laboratory by our processing experts. Processes can be simulated on scale with product samples from the client, so the most suitable solution for real-scale situations can be achieved. Another option for our clients is to test on site using our rental test units, if necessary with assistance from our experienced process engineers. CFD analysis can be performed on all of Jongia's mixer designs. In addition to these activities endurance tests on wearing parts are regularly conducted at our testing facilities. In close collaboration with our R&D team clients in all types of process industry have been able to achieve process improvements.



### Engineering

Jongia's engineering team is dedicated to 3-D designing of robust and reliable, leading edge mixing equipment. The high level standardization of the modular design generates high quality equipment. Optimum traceability is guaranteed thanks to our ERP and parts management systems.





**Key facts:**

- 3 Owned distribution centers with manufacturing sites
- 10 Owned sales & engineering centers
- 26 Sales & service partners



**Manufacturing**

Skilled craftsmen manufacture your equipment in-house on state of the art machinery. High standard practical procedures have been set-up and are maintained in such a way that they ensures constant improvement of our performance, should need be. Lean manufacturing practices and our ambitious continuous improvement strategy create added value for our clients.



**Quality control**

Every step of the production process is controlled by international quality standards. Consistency and quality in our services are achieved through internal and external quality assessment systems. Thus Jongia is ISO 9000:2008 (Bureau Veritas) and VCA certified (Lloyds). Jongia's quality management system is also approved for ATEX by KEMA Institute. This means that we are certified to manufacture mixers for zone 0/20 in the vessel regardless of whether these mixers are fitted with stuffing box type seals, lipseals or mechanical seals.



**Installation, Service & Maintenance**

Simple, modular design ensures the need for only a minimum of spare parts and maintenance activities. Essential wear and tear parts are easily replaced without the need for dismantling the entire mixer. Installation, supervision and commissioning are performed by experienced field engineers. Their skills guarantee short installation times, quick start-up and a long lifetime of the equipment. Should you need assistance you can rely on Jongia's 24/7 global service.



**Knowledge**

We know your product and offer our expertise to optimize your production process



**Innovation**

We act on the market's requirements, continuously improving and innovating



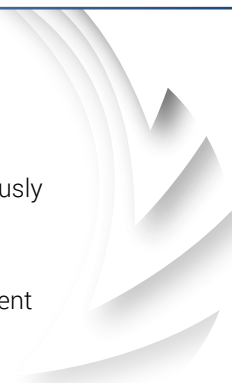
**Equipment**

We supply robust, reliable, and durable equipment for optimal TCO



**Support**

We assist you during installation & commissioning and provide 24/7 after-sales services





For the **best mixing solution**  
we focus on **sanitary design** and  
**product knowledge**



# FOOD INDUSTRY



**Edible oils**

**Starches**

**Sauces**

**Chocolate**

**Margarine**

**Animal nutrition**

**Milk**

**Whey**

### You can rely on our experienced staff

Mixing is a key operation in the preparation of food for human consumption. Jongia's experts make sure you're getting the right mixer for your specific application, whether you are mixing on a small scale or blending large quantities of various ingredients.

### Get maximum profit from your investments

The ever-changing requirements both from the client as well as the regulatory side make mixing techniques challenging. While maintaining constant product quality and meeting stringent hygienic requirements imposed by law are foremost on your mind, you will want your capital investments to yield maximum profit. Lowering production costs and total cost of ownership through the use of energy efficient equipment and low maintenance

solutions will help you achieve that goal. The equipment essentially pays back for itself.

### The right mixer for your specific application

Various types and styles of mixing equipment are utilized within the food industry. Their use and application are determined by the phases being mixed, as well as physical characteristics such as viscosity and density of the end product. Jongia predominantly handles the liquid-liquid, solid-liquid mixing process,

### Maximum results with minimum power input

Proper mixer selection is vital to process optimization and for that you can rely on our experienced staff of engineers and process technologists. We focus on sanitary design, mechanical stability and product knowledge.

### Product information

An innovative design top flange agitator, **type JDR**, without gearbox eliminates the possibility of oil leakage and contamination of the tank contents with lubricants.

**The L-type mixer** is especially designed for versatile industrial applications and particularly suitable for combining with a large range of sealing systems, varying from a dust cap, lip seal, or stuffing box to simple or

complex mechanical seal configurations.

**The JM type mixer**, nicknamed Magitator, is a magnet driven side or bottom entry mixer especially designed for processes with strict hygienic requirements. Its hermetically closed, sealless shaft design makes contamination and leakage a thing of the past.







We offer **maximum reliability, high durability** and **stirring efficiency**



# CHEMICAL INDUSTRY



**Plastics**

**Paper & pulp**

**Polymers (nylon)**

**Coatings (paint)**

**Crude oils**

**Bitumen**

**Slurries**

**Sealants**

## Optimal results - minimal waste

Selecting the right mixing equipment is vital to your chemical mixing process. Our goal is to provide you with quality equipment that achieves optimal results in order to minimize waste of often costly batch ingredients. We understand that mixing ingredients in a timely manner increases productivity and maximizes your profits.

## Meet our many years of experience

Many years of experience ensure that the stringent requirements of the chemical industry are being met. Jongia's mixing equipment complies with extreme criteria concerning emission values, shaft alignment tolerances and rotational accuracy.

## Go for easy maintenance and trouble-free operation

We are very strict about the quality of the materials, components, and techniques for manufacturing our mixers. If you have a corrosive environment, we offer many options such as special alloys, coated shafts and special mixer drives to handle the harsh conditions. To allow easy maintenance and trouble-free operation, special devices such as spacer shaft and shaft catch have been developed.

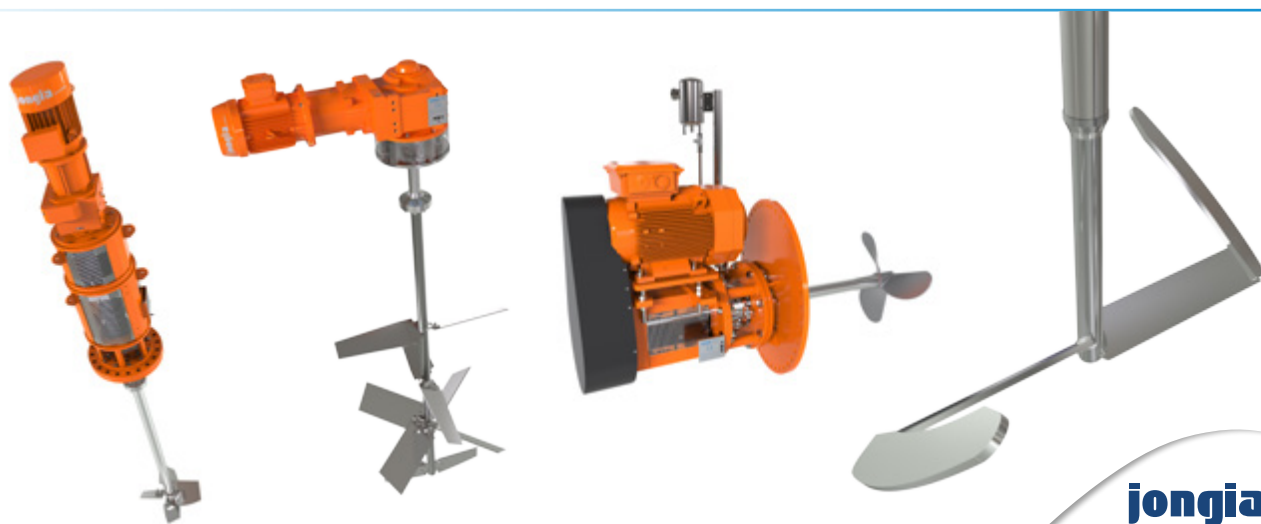
## We handle every harsh condition

Our products offer maximum reliability, high durability and stirring efficiency.

## Product information

Jongia's Sydmikser, **type RWM**, is a heavy-duty side entry mixer suitable for large tank capacities, is fitted with a shut-off device to seal off the tank in case of calamities. For medium mixing duties our **type L mixer** can be used. This type of top entry mixer is particularly suitable for combining with a large range of sealing systems, varying from a dust cap, lip seal, or stuffing box to simple or complex mechanical seal configurations.

The **type HD mixer** is designed for heavy industrial applications requiring long shafts without bottom bearing and relatively high installed power in an environment with high pressures and temperatures. Radial and axial loads on the drive are completely absorbed by a separate double bearing section and a flexible coupling connects the mixer shaft to the drive.







We aim for **maximum performance**  
at **minimum power input**





## BIO-BASED INDUSTRY



**Biodiesel**

**Bioethanol**

**(Waste) water treatment**

**Biogas**

**Environmental**

**Biopolymer**

**Biostarch**

**Succinic Acid**

### Experience our tailor-made smart and robust design

Maximum performance at minimum power input that's what our mixers for the environmental and bio-based industry are all about. Thanks to the tailor-made smart and robust design of our mixers we are able to minimize the TCO while maximizing for example the gas yield in a biogas installation.

### Meet our unique side entry mixers

We've developed a full range of unique design mixers for clients in the biogas, waste water, renewable energy and bio-based industry. More specifically, our side entry mixers offer a high-quality mixing solution with low energy consumption. To prevent product loss due to seal leakage, we've designed a basic, low-cost leak stop device for our side-entry mixers.

### We provide up to date expertise in our in-house lab

Tests at our in-house lab allow our experienced process engineers to provide expertise in reporting on the characteristics such as rheology, settling velocity etc. of samples of sludge and digester fluids.

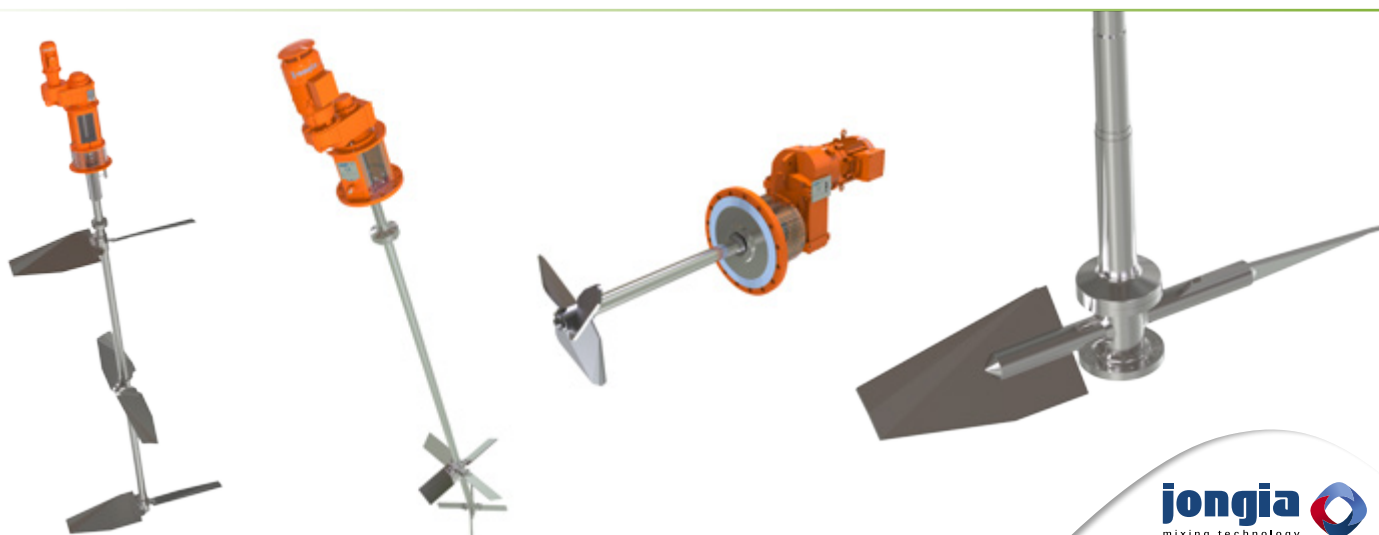
### Where theories meet real life

Aided by such state of the art techniques as CFD (Computational Fluid Dynamics), our in-house developed Agitator Design Program (JADP) and scale models built for your specific project we support our theories which find their application in real life.

### Product information

**The type JRWM**, a very compact and reliable side entry mixer, is equipped with a tank-shut-off system, and is suitable for large tank capacities and medium duties. It requires only a minimum of maintenance and is mostly applied on tanks with sludge, relatively high in dry solids. Both the top entry mixers **type LB and type HD** can be

fitted with a water-lock to prevent odor pollution. Radial and axial loads on the drive of the HD type mixer are completely absorbed by a separate double bearing section and the flexible coupling connecting the mixer shaft to the drive.

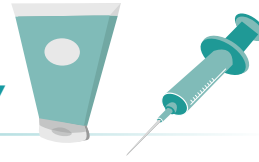




We understand mixing is **not just** about **simply combining raw ingredients**



# PHARMACEUTICAL INDUSTRY



**Creams & Lotions**

**Toothpaste**

**Blood factors**

**Wet wipes**

**Enzymes**

**Aromas**

**Flavours**

**Proteins**

Accurate control of processes and attention to hygienic aspects are essential to mixing equipment that is used in the pharmaceutical industry.

### Choose from a wide variety of mixing elements

Jongia has an extensive range of dynamic mixers which can be used in applications instead of sterile magnetic mixers. We can take our pick from a wide variety of mixing elements that offer a solution for every application in the pharmaceutical industry.

### Meet our solution for every application

Mixing is not just about simply combining raw ingredients. Preparing fine emulsions, reducing particle

size, carrying out chemical reactions, dissolving components and facilitating heat transfer, that's also part of the working area.

### Depend on our proper mixer selection

A single pharmaceutical product line may call for a number of different style mixers. Moreover, most pharmaceuticals are highly process-dependent. The mixing operation has a decided influence on whether a drug will deliver the accurate dosage, its appearance and texture, and whether it is stable for the appropriate length of time. Needless to say that the proper mixer selection is crucial.

### Product information

The magnet driven **JM type** mixer, also known as Magitator, is especially designed for processes with strict hygienic requirements and can be installed in the bottom or the side of a tank. One of the Magitator's main features is its hermetically closed and sealless shaft design guaranteeing zero contamination and leakage.

**The LE type** mixer is a light, versatile top entry mixer for multiple applications. The mixer shaft is mounted in the hollow drive shaft of the transmission.

It's bigger cousin is the **type LD** mixer, used in medium duty applications.







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