



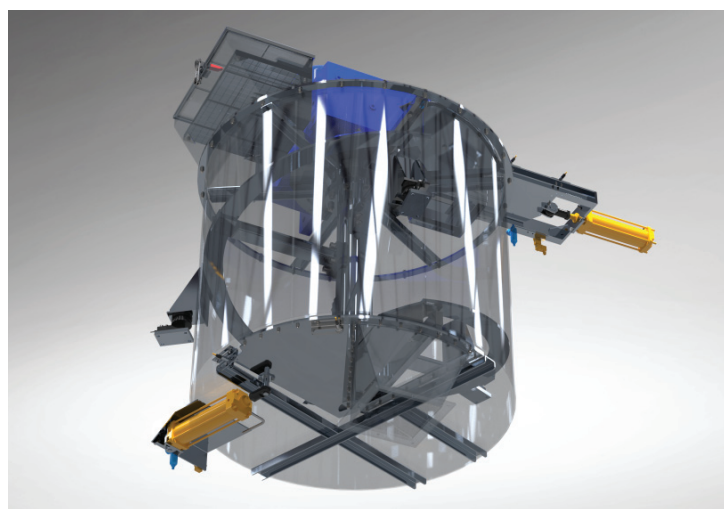
PROCESS TANKS / PROCESS REACTORS



We advise, design and produce process tanks and process reactors made of black, stainless, acid-resistant and wear-resistant steel - individually tailored to the production profile of our Clients.

Depending on the process, we choose the type of tank, dimensions, accessories and automation to make the process taking place in the tank more efficient and repeatable. Our experts in chemistry and engineering have specialist material knowledge and excellent knowledge of your processes, thanks to which they are able to design all devices in compliance with the strictest safety rules.

Process tanks take part in industrial processes and are used to process products. Their main role is to ensure reliability and meet the conditions required by a given production technology. Process tanks are specialized devices and the main difference is that they are not storage tanks.



INDUSTRIES WHERE PROCESS TANKS AND PROCESS REACTORS ARE USED:



CHEMICAL
& PETROCHEMICAL
INDUSTRY



CONSTRUCTION
& ROAD CONSTRUCTION
INDUSTRY



METALLURGY
& GLASS
INDUSTRY



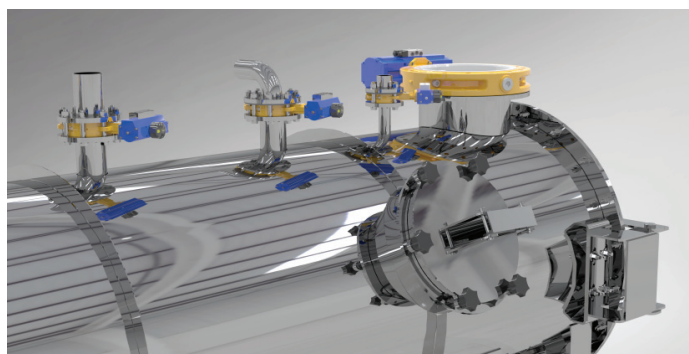
FOOD
& AGRICULTURE
INDUSTRY



PAPER
& CELLULOSE
INDUSTRY



ENVIRONMENT
PROTECTION
INDUSTRY



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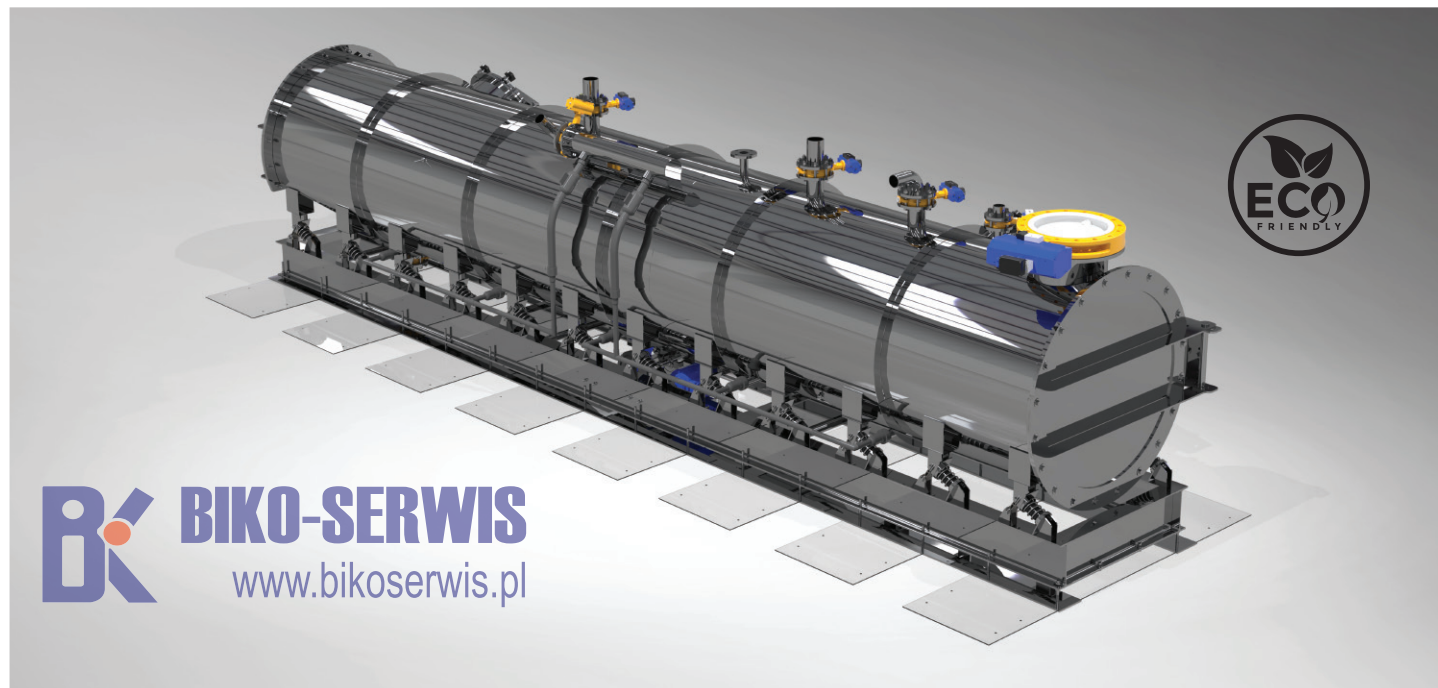
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PROCESS TANKS / PROCESS REACTORS



Depending on the type, they are used to carry out processes, mixing or processing liquid and loose substances. Its design is adapted to work in specific conditions, such as high pressure, high temperature or corrosive environment. Depending on the needs and specifications of the production process, these tanks come in various sizes and shapes. The design and equipment of the process tank depends on the function it performs on a given line. We produce both technological tanks in the shape of a vertical cylinder, as well as cuboidal tanks, sometimes with a non-standard shape.



One of the key parameters influencing the construction of the process tank is the material from which it is made. Choosing the right material is extremely important because it affects the strength and durability of the tank. Depending on the operating conditions of the tank in your plant resulting from the production process, technology, specificity of the chemicals used, temperatures, heat dissipation inside the process tank, pressures and concentrations prevailing inside, etc. for stable process conditions. Therefore, we will select appropriate production materials that are resistant to the above-mentioned factors. This will ensure a reliable and correct process.

PRODUCTION MATERIALS & FINISHING OPTIONS:



CARBON
STEEL



STAINLESS & ACID
RESISTANT STEEL



HEAT RESISTANT
STEEL



HARDOX
STEEL



ABRASION-RESISTANT
VERSIONS

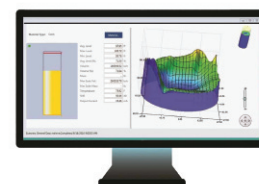


PAINTING /
POWDER COATING



OUTSIDE
INSULATIONS

HIGH QUALITY MEASURING EQUIPMENT AUTOMATION & CONTROL OF DEVICES:



Correct storage of products and semi-finished products is a technologically necessary process, that allows them to maintain their high quality. Determining the filling level of process tanks is a key issue related to storing various types of material in them. By knowing how full the tank is, we will avoid overfilling it.



PROCESS TANKS / PROCESS REACTORS



TANK PROPERTIES:



**PREFABRICATED,
TRANSPORTED AND
ASSEMBLED
IN THE LOCATION INDICATED
BY THE CUSTOMER**



EASY & SIMPLE ASSEMBLY



TANK JACKET THICKNESS:
4~25MM



VOLUME:
< 600 M3



**DIMENSIONS OF
STANDARD TANKS:**
LENGTH: < 45,000 MM
DIAMETER: < 4,200 MM



WORK TEMPERATURE:
individually calculated

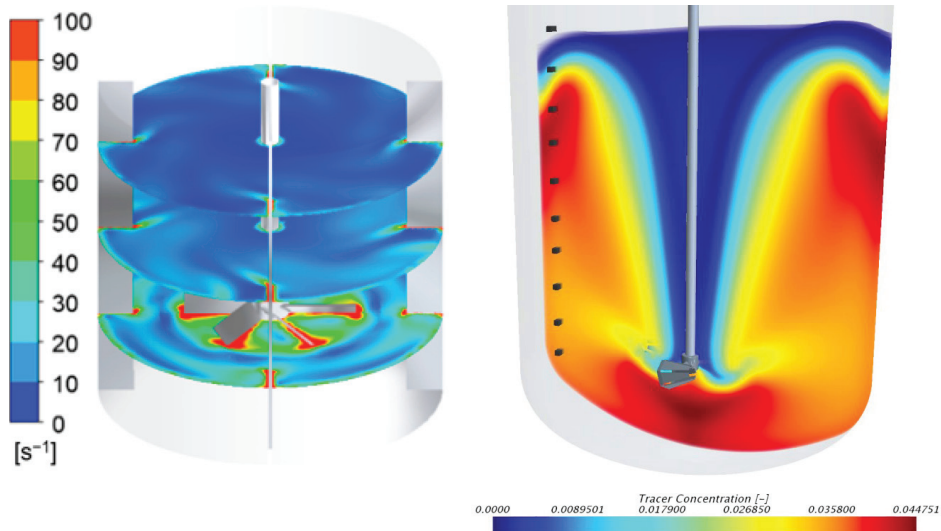


PRESSURE TOLERANCES:
individually calculated



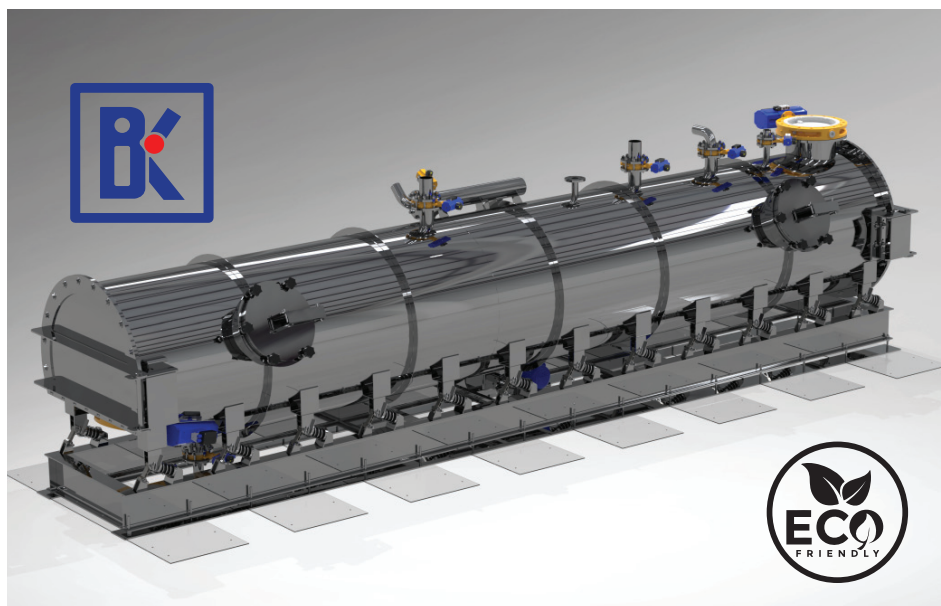
**CONTROL & MEASUREMENT
INSTRUMENTS
+ PROCESS AUTOMATION**

As a result of constant development, digital simulations of processes in DEM and CFD technology, research and innovation as part of R&D projects, we are a leading manufacturer of process tanks on the European market. We are also open to various types of modifications.



Process tanks include: chemical reactors, mixers of corrosive chemicals with a conical or flat bottom (variant with a structure supporting a mechanical stirrer), devices for reducing the chemical charge, devices for dosing chemicals, coagulants, acids and alkalis.

Let our engineers find the best solution for the optimal combination of functions such as mixing powders or liquids, appropriate pressure, heating/cooling of substances. Our Engineering Department and production department can adapt tanks to the most demanding and rigorous standards. At the customer's request, we can create tanks with much smoother (more hygienic) internal walls.



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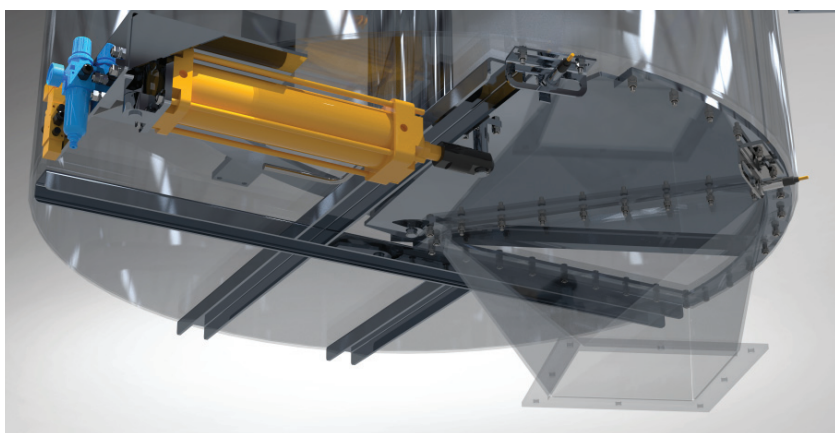
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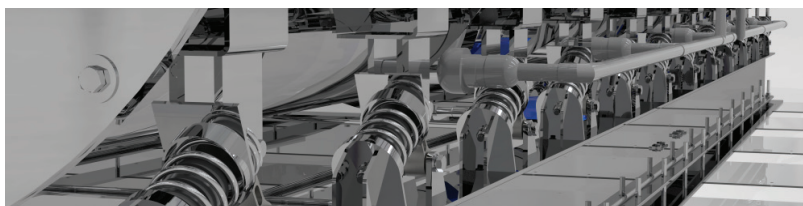


We offer the construction of sterile process tanks intended for contact with food and fermenters. For processes used in the food and pharmaceutical industries, such as pasteurization and fermentation, heating and cooling of the tank is crucial. Proper connections to the tank insulation must be ensured so that heating and cooling of the product occurs at the appropriate time intervals. Please let us know directly what features you need. Together we will develop the most effective solutions, such as the use of a heating/cooling jacket, double walls or half-pipes.



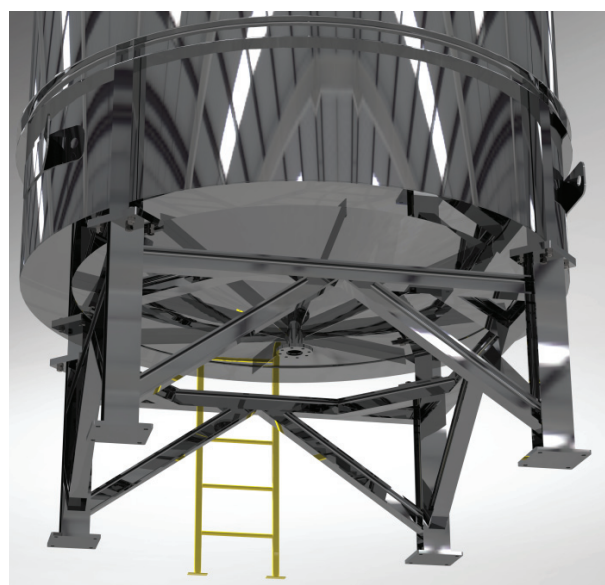
BIKO-SERWIS PROVIDES:

- dismantling the existing tank (if the investment involves replacing it with a new one)
- selection of production materials and tank construction based on the investor's guidelines
- assistance in developing the project
- development of a technical design of the tank and accompanying installations along with an estimate of the budget and indication of the work schedule
- production of a new tank and conducting leakage tests and prototype tests
- delivery and assembly of the tank (and installation) at the facility along with the necessary equipment
- connection to the installation, measurement
- installation start-up
- subsequent service of the tank and whole installation



EQUIPMENT OF PROCESS / TECHNOLOGICAL / REACTOR TANKS:

- drives & gear motors
- control and speed regulation inverters
- hinged covers
- baskets – hoppers
- visors
- control automation cabinets & sensors
- pumps & pump connections
- dispensers
- nozzles / cleaning nozzles
- wave breakers
- insulation of tanks
- heating and cooling systems
- technological pipelines
- clean-in-place CIP systems



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