

Bimech

# TANKS & PREPARATION VESSELS



## Tanks

Used for storage of liquid, sterile and injectable solutions, but also for PW/WFI water. They are characterized by a high level of finish and a design aimed at satisfying the most stringent requirements of sterility and ease of sanitation.

- » Manufactured in fixed version, on trolley or skid mounted.
- » Single-walled or stainless steel sealed insulation.
- » Atmospheric or pressure according PED regulations.
- » Internal mirror polished finish with  $Ra < 0.1 \div 0.4 \mu m$  and subsequent electropolishing (on request)
- » External satin finish or mirror polished.



## Preparation vessels

Used for the preparation of non-sterile, sterile and injectable liquid solutions, but also for creams, ointments and syrups, they are developed and customized according to the process to be implemented. They are equipped with control and supervision systems (PLC / SCADA) in compliance with CFR 21 part. 11 and can be supplied with on-board or separate electrical components.

### **Common features**

- » Manufactured in fixed version, on trolley or skid mounted.
- » Atmospheric or pressure according to PED regulations
- » ATEX version
- » Internal mirror polished finish with  $Ra < 0.1 \mu m$  and subsequent electropolishing (on request)
- » External satin finish or mirror polished.





### **Mixing**

The stirring systems vary according to the physical characteristics of the product and process requirements. We provide top anchor stirrers for viscous products, to the impeller (marine or cowless) ones for suspensions and medium viscous products, up to those with magnetic drive from the bottom for low viscosity aqueous products. Through the use of inverters and sensors that detect the actual speed of the impeller, it is possible to modulate the speed and check the set value in real time.

### **Thermoregulation**

Thermoregulation is carried out through the circulation of a carrier fluid in the jacket. The jacket can be made in tank-in-tank mode or with a welded half-pipe. Heating is carried out by means of electric heating elements in a bath or by circulation of steam, depending on the process temperatures, while cooling is carried out by means of exchangers, if there is availability of chilled water, or external chillers. Thermostat control unit and preparer can be assembled on a single skid.

### **Controls**

All machines are equipped with PLC and HMI. In simpler systems you can set and monitor process parameters such as temperature, stirrer speed, weight, pH, pressure etc ... to reach more complex SCADA systems where it is possible to manage recipes, reports, historical parameters, user access, all according to CFR 21 part. 11

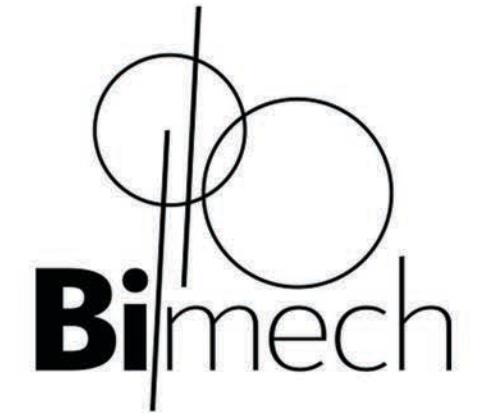
### **Washing**

The internal chamber is designed and manufactured in such a way that it can be washed and sterilized by means of automatic CIP/SIP systems. One or more sprayballs or rotating heads are supplied depending on the product processed and the size of the chamber. The CIP system can be integrated with a preparation vessel on a single skid





# CONTACTS



## Production Plant

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