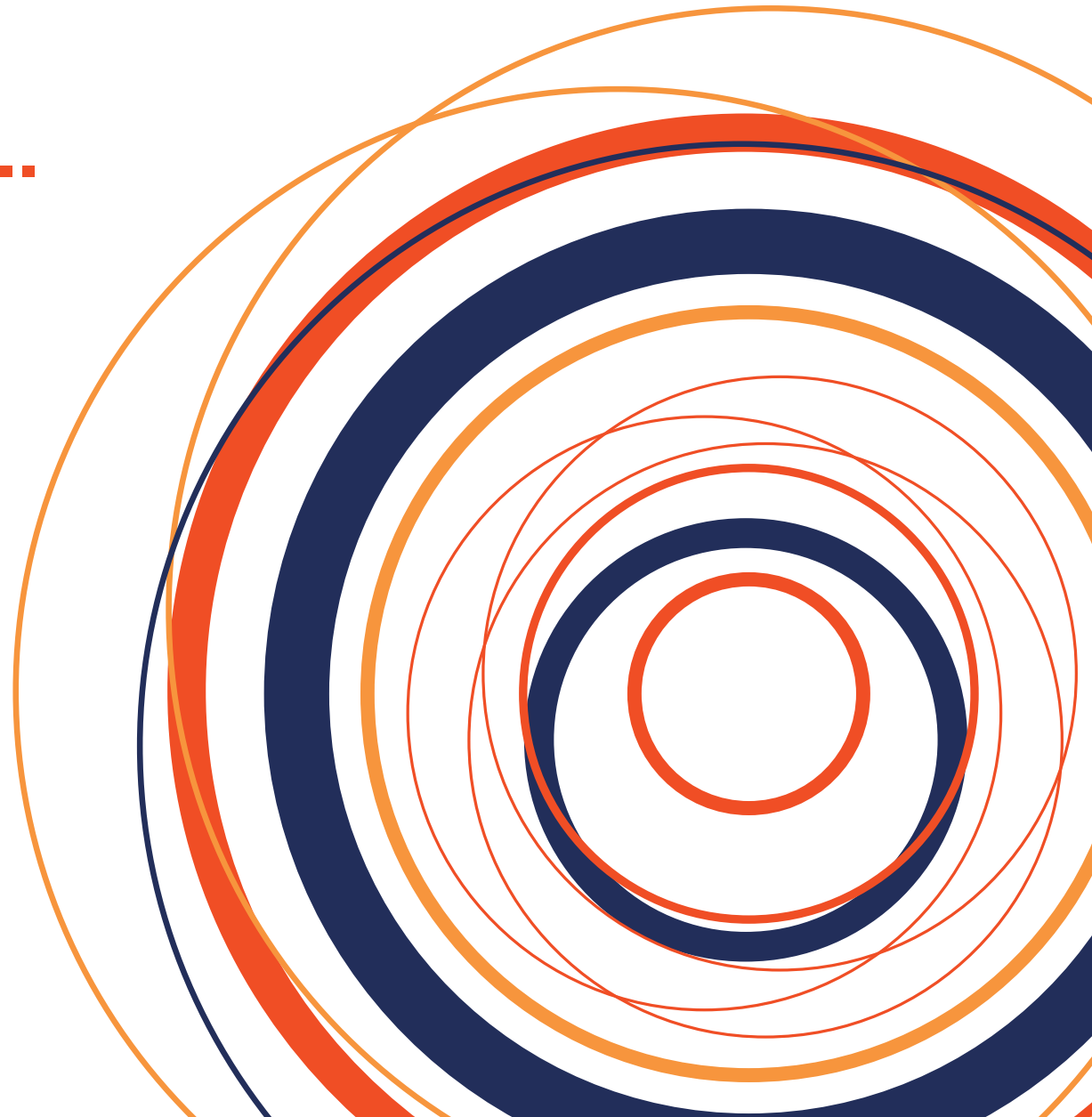




Mixing **Technologies**  
Transforming **Life...**



## Introduction

**PROPACK TECHNOLOGIES** is a conglomerate developing value added engineering solutions for Pharmaceutical, Biotech & Cosmetic industries worldwide. We have more than 20+ years of expertise in providing processing solutions with a strong marketing & after-sales service network, with 1000+ customers in India and across the globe.

We have R&D facility with in-house lab models, where trials can be conducted for meeting the challenging and critical demands of products. **PROPACK** has an excellent set up of infrastructure for manufacturing of processing vessels and skids. **PROPACK'S** modern facility is well equipped with the most modern fabrication equipment & special purpose machines like automatic buffing machine, automatic polishing machine, orbital welding machine & latest measuring instruments.

We have In-house Automation Department for customized control panel and programming, as per 21 CFR part 11 and cGAMP. We have a separate documentation department to maintain documentation and traceability at every stage of the production process.

R&D Facility

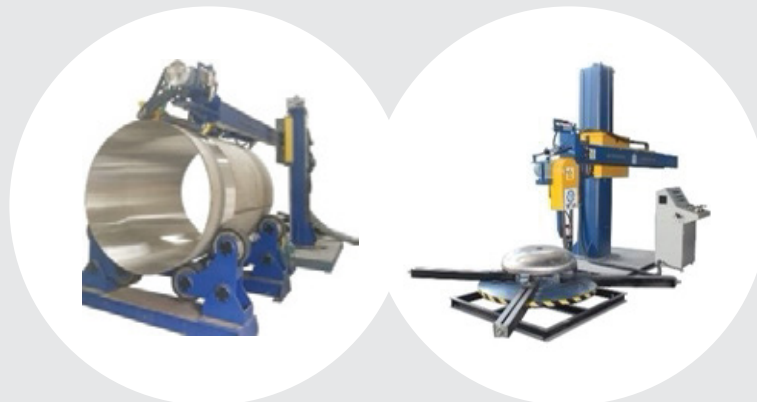


Our experience and proven organizational skill enable us to Successfully implement a wide range of project services .

Orbital Welding Machine



Automatic Polishing Machines



## Product Range

- Sterile Skid / Injectable Processing Plant
- Ointment / Cream Processing Plant
- Liquid / Syrup Processing Plant
- Gelatin Processing Plant
- Metered Dose Inhaler Processing Plant
- Bio-Reactors / Fermenters & Bio-Process Equipment
- CIP / SIP System
- Water Treatment Systems & Distributions



Technologies that care

PROPACK

## Product Certification:

Following Documents/ Certificates are provided :-

- Material Test Certificates
- Food Grade Certificates for all elastomers
- Orbital Welding Parameters
- Organ Purity Certificate
- Welder Qualification Certificate
- Bore scoping photographs
- Radiographic Test Documents
- Calibration Certificates for all instruments
- Technical catalogues and GA Drawings for components
- P&I Drawings
- GA Drawing



## Documentation

Propack's work culture is based on Documentation at each & every stage for maintaining High Quality Standards and Traceability.

We Provide :

- Design Qualification
- Installation Qualification
- Operation Qualification
- Performance Qualification
- Test Certificates of Material
- FAT Certificate, PMI Test at various levels, Calibration Certificate, Electrical Wiring Diagram, etc.
- Working / Safety & Maintenance Manual

## Codes & Standards



### Mechanical Standards

**Vessel:**  
ASME sec VIII  
Div. 1, AD-Merkblatt,  
ASME BPE  
**Heat Exchangers:**  
TEMA

### GMP Standards

USFDA, WHO, cGMP.,  
EHEDG, FDA,  
ASME(BPE),  
A3, ISPE Baseline,  
ISO-14159

### Qualification Document & Execution Standards

ISPE Baseline Vol 5

### Equipment Layout Standards

ISPE Baseline Vol 5

### Piping Standards

**Process:**  
(BPE)/SA 270  
**Utility:**  
ANSI B 31.3

### Automation Standards

GAMP & 21CFR part 11

### European Nations Standards for CE Marking

GAMP & 21CFR part 11

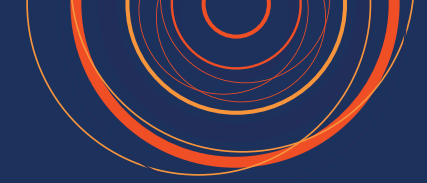
## Our Esteemed Clients

We have a strong marketing and after-sales service network with more than 1000+ satisfied clients in India & across the globe.



# Sterile Skid / Injectable Processing Plant

► Capacity - 5 Ltrs to 30,000 Ltrs ◀



## Pharmaceuticals Applications

- Sterile Solutions
- Vial
- I.V. Fluids
- Aerosols
- Ampoules
- LVP & SVP Solutions

## Biopharmaceuticals Applications

- Vaccines
- Injectables
- Human Insulin
- Serums
- Plasma Fractions
- Bacteria & Cell Structures

## Salient Features

- Aseptic mixing and blending vessels designed as per ASME BPE / cGAMP / PED / USFDA.
- Bottom mounted magnetic mixers as per requirements.
- Mobile / Integrated or Super skids customized and Engineered as per facility layout and process requirements.
- Complete CIP-WIP(Wash in Place) /SIP able system with 100% drain.
- In-house programming Expertise to Design Customized cycles – Recipes.
- Automation as per 21 CFR Part 11, GAMP5.

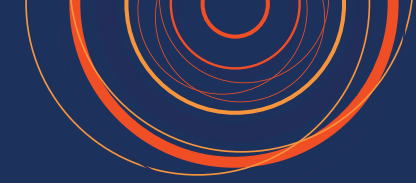




Click on the QR Code to Watch Sterile Skid / Injectable Processing Plant

# Ointment / Cream Processing Plant

► Capacity - 5 kg to 10,000 kg ◀

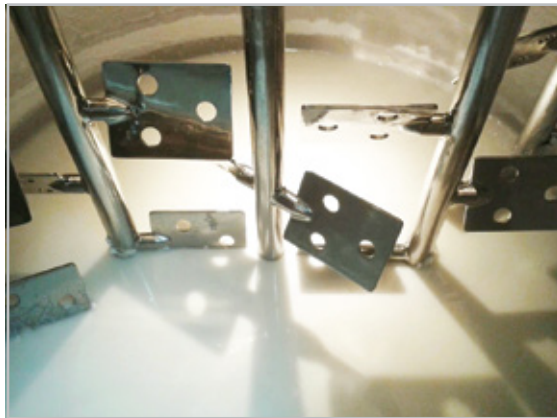


## Applications

- Ointment
- Sterile Ointment
- Cream
- Lotion
- Shampoo
- Toothpaste
- Other Semi Solid Emulsions

## Salient Features

- Complete untouched processing system.
- Recirculation- short and long loops depending on batch size provided.
- Contra or semi Contra Agitator depending upon the product viscosity.
- Variable High Shear Processing.
- Complete CIP-WIP(Wash in Place) / SIP able system with 100% drain.
- In-house programming Expertise to Design Customized cycles – Recipes.
- Automation as per 21 CFR Part 11, PLC/ SCADA based automation.



Lab Model

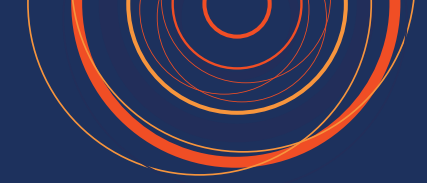




Click on the QR Code to Watch Ointment / Cream Processing Plant

# Liquid / Syrup Processing Plant

► Capacity - 10 Ltrs to 30,000 Ltrs ◀



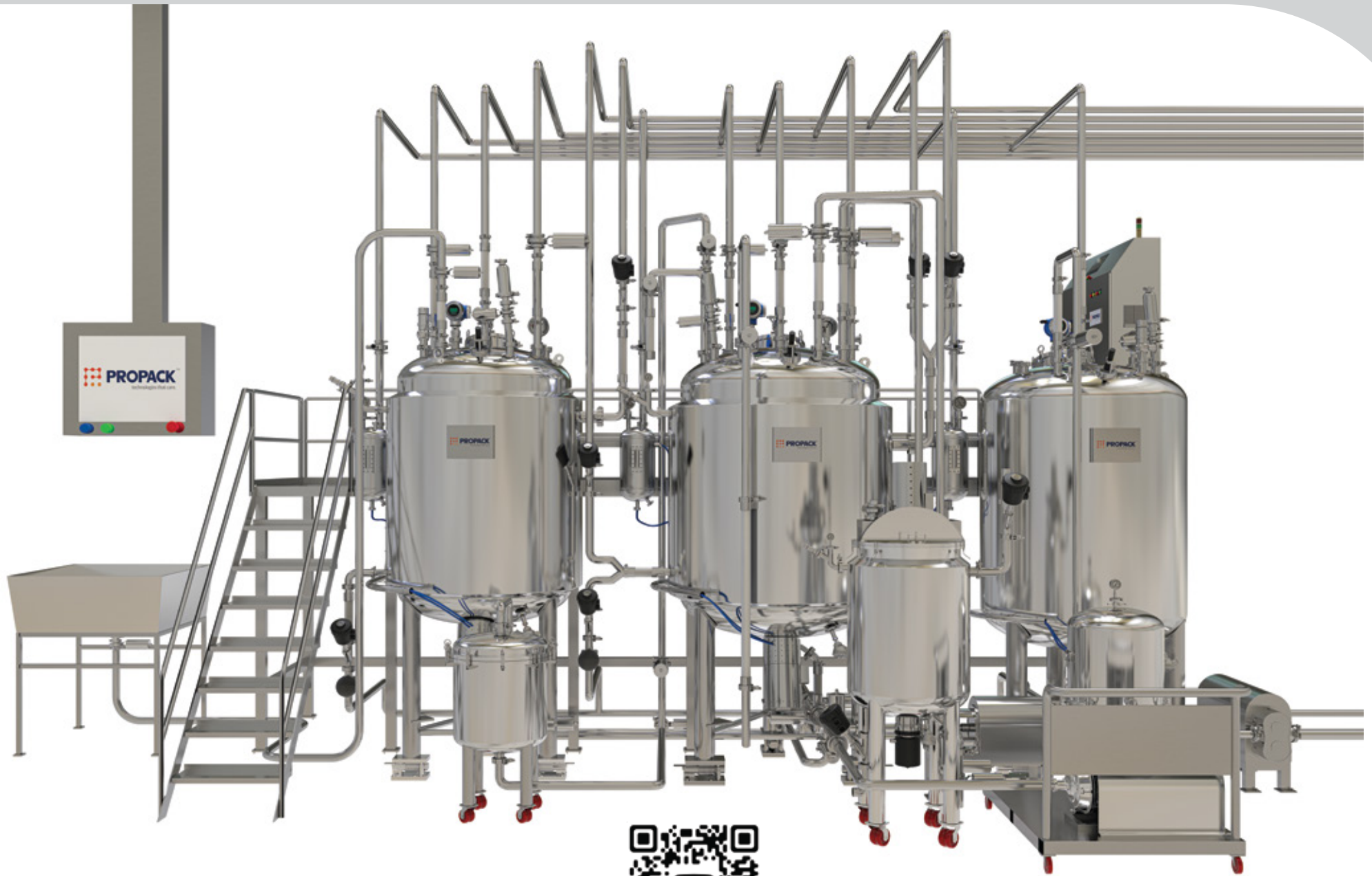
## Applications

- Orals
- Liquids
- Suspensions
- Cough Syrups
- Drop Solutions
- Expectorants
- Antacid Solutions

## Salient Features

- Vacuum transfer for sugar ( process vessels are designed for vacuum).
- Long Bend interconnecting pipelines to reduce the residue in pipes after product transfer.
- Liquid Glucose Transfer System.
- Efficient Mixing with bottom entry agitation.
- Inline high shear mixer for suspension.
- Efficient filtration system.
- In-house programming Expertise to Design Customized cycles – Recipes.
- Automation as per 21 CFR Part 11, PLC/ SCADA based automation.

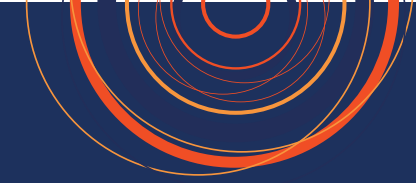




Click on the QR Code to Watch Liquid / Syrup Processing Plant

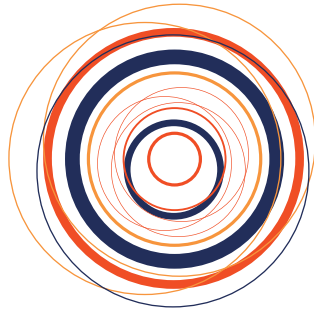
# Gelatin Processing Plant

►Capacity - 10 Ltrs to 5000 Ltrs◄



## Applications

- Soft Gelatin
- Hard Gelatin
- HPMC / Wet Gelatin



## Salient Features

- Gelatin melting mixer to get bubble free gelatin solution.
- Color addition system with interchangeable vessel design.
- Holding vessels – multipurpose.
- Medicament mixer with homogenizer.
- Heat traced transfer pipeline for in feed encapsulation line.
- CIP and Sanitization in place equipped.
- Fully automated system with PLC / HMI, can also be incorporated with SCADA with 21 CFR Part 11.



# Metered Dose Inhaler Processing Plant

# Bio-Reactors / Fermenters & Bio-Process Equipment

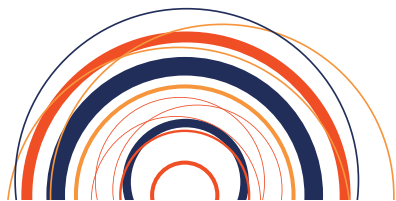
## Applications

- MDI
- Nebulizers
- Skin Sprays
- Sublinguals
- Dental spray & other Pharmaceutical aerosol & HFA type product



## Salient Features

- Vessel design as per ASME SEC-VIII, DIV-I.
- High Pressure vessel with agitator.
- Mechanical seal (Garlock) for stirrer to withstand high pressure.
- Zero dead legs valve for outlet.
- Rupture disc for pressure safety.
- Minimum batch stirring agitator with high pressure.
- Vessel is CIP / SIP able.
- Automation in compliance with 21 CFR Part 11.
- All Documentation and Validation provided.



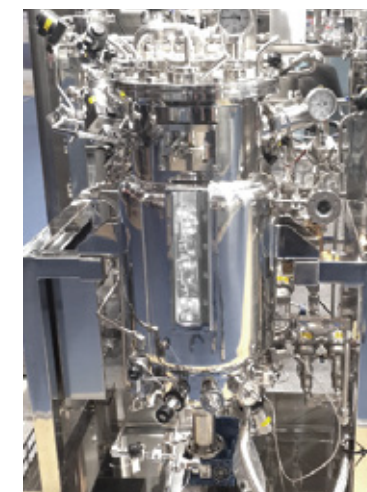
## Salient Features

- Upstream bioprocess vessels for Media /Buffer preparation, Feed hold, Serum vessels.
- Bio-kill/ Decontamination systems Continuous & Batch.
- TFF/ Cross flow concentration Skids.
- Product feed vessels for filling machine.
- Transfer Sterile filtration skids with Integrity testing.
- Customized designing and manufacturing for fermenters and Bio-reactors.

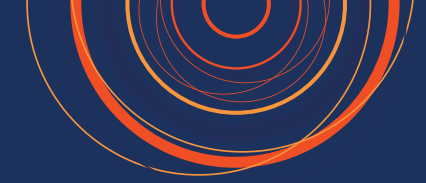


## Biotechnology Applications

- Downstream processing Harvest Vessels, Pooling Vessels, Buffer preparation & Purification Vessels.
- In-Situ Fermenters/ Bioreactors.
- Virus inactivation systems.
- Product feed vessels for filling machine.
- Fermenters are Ideal for microbial cultivation (bacteria, archaea, yeast, extremophiles)
- Bio reactors are ideal for mammalian cells, plant cells, insect cells, viruses cultivated on cells.



# Cip / Sip System



## Applications

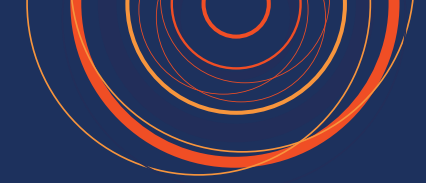
- CIP & SIP are systems designed for automatic cleaning and disinfecting without major disassembly and assembly work

## Salient Features

- CIP System with validated results
- CIP systems are engineered as per specific application, facility layout and utility
- Effective and efficient process equipment cleaning
- CIP systems from single to multi tank to meet cGMP and ASME BPE
- In-house Programming expertise to design CIP cycle as per 21 CFR part 11



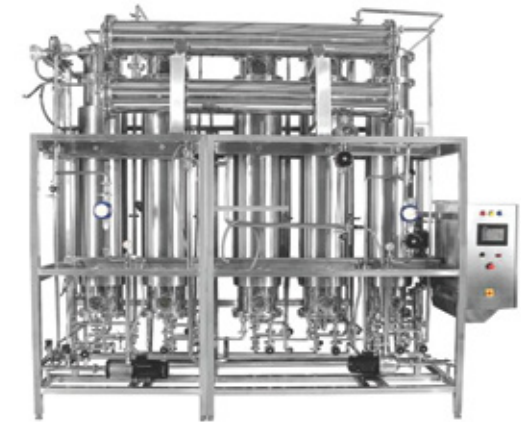
# Water Treatment Systems / Sterilizers



Purified Water Generation



Water Distribution Systems



Water For Injection



Pure Steam Generator



Steam Sterilizer



Dry Heat Sterilizer

## OUR GLOBAL FOOTPRINTS

We have directly exported to the countries below:



Algeria	Brazil	Germany	Jordan	Myanmar	Russia	Sri Lanka	Tunisia	Uganda	Vietnam
Australia	Croatia	Iran	Kenya	Nepal	Saudi Arabia	Sudan	Turkey	UK	Yemen
Bangladesh	Egypt	Iraq	Malaysia	Nigeria	South Africa	Syria	Turkmenistan	USA	Zambia
Belarus	Ethiopia	Ireland	Moldova	Philippines	Spain	Tanzania	UAE	Uzbekistan	and many more...



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