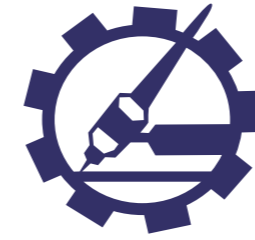


Welding shall be appreciated as an art form.  
A welder with outstanding skills is a metal artist.





# PERFECT WELDING TECHNOLOGY

Expert of making super alloyed pressure vessels and equipment.



 No.9-39,Neikeng Rd., Daliao Dist., Kaohsiung City 831, Taiwan

 +886-7-7875483

 +886-7-7884304

 [www.perfectwelding.com.tw](http://www.perfectwelding.com.tw)

 [perfect@perfectwelding.com.tw](mailto:perfect@perfectwelding.com.tw)



Design



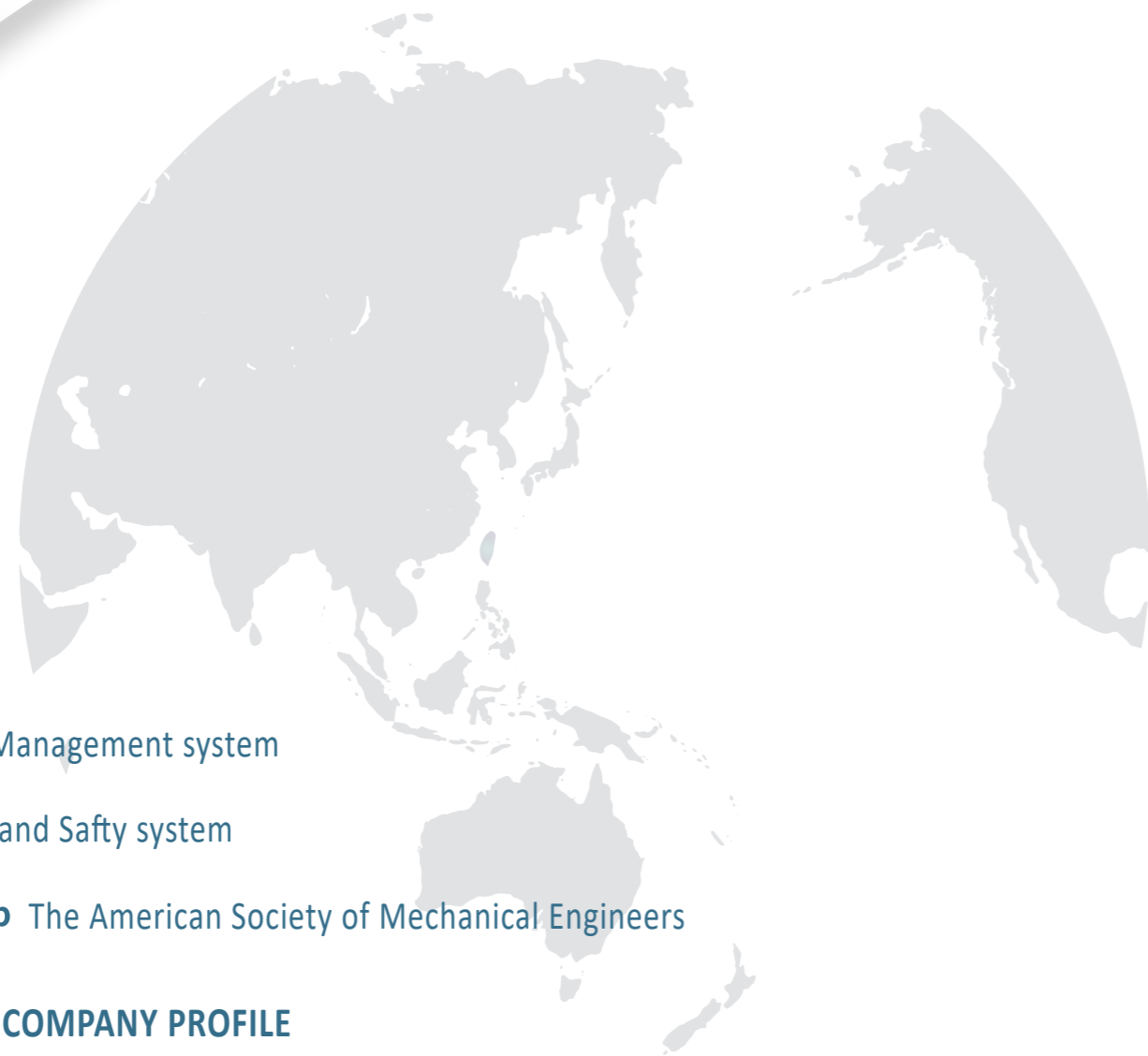
Fabrication



Installation



Repair



**QUALIFICATIONS**

**ISO 9001** Quality Management system

**ISO 45001** Health and Safty system

**ASME R U S Stamp** The American Society of Mechanical Engineers

**PERFECT WELDING COMPANY PROFILE**

**PRESIDENT** Han-Pin Lien  
**CAPITAL** 1,700,000 USD  
**AREA** 2.45Acre  
**ADDRESS** No.9-39, Neikeng Rd., Daliao Dist., Kaohsiung City 831, Taiwan  
**FAX** +886-7-7875483  
**TEL** +885-7-7884304  
**WEBSITE** www.perfectwelding.com.tw  
**E-MAIL** perfect@perfectwelding.com.tw

**INDEX**

Introduction	02
Acknowledgment, Welding certificates	03
Main Customers	04
History	05
Certification / Patent / Staff Qualification	06
Facilities	08
Product	12
Service	21





## ACKNOWLEDGEMENT

1. Kobe Steel Ltd., Japan
2. CAPCO Co. Ltd.
3. Tuntex Petrochemicals, INC.
4. Kaohsiung Monomer Company
5. Akahoshi Co. Ltd., Japan
6. CTCI Talin Alkylation Project
7. China Steel Chemical Corporation
8. Furukawa Electric Copper Foil Taiwan

「Quality Management System is the only way to surpassing clients' expectations.」

## About Us

Perfect Welding Technology Co., Ltd. owns the best manufacturing techniques and procedures with regards to Titanium fabricating fittings, pipes, heat exchangers, pressure vessels as well as all every kind of industrial equipment. Professional in the design, manufacture, installation, maintenance and repair of various super alloyed equipment including Titanium, Niobium, Zirconium, Tantalum, Hastelloy, Inconel, Nickel and Monel, our products are vital for various industries including, but not limited to, electronics, solar energy, seawater desalination, petrochemical plants, and power plants.

We have hold of ISO 9001 and OHSAS 18001 Certifications as well as ASME U R stamps. Since 1992, for twenty-two years, we have insisted on the beliefs of: "Total Quality Management, High Excellence, Continuous Improvement, and Surpassing The Clients' Expectations". We sincerely welcome your patronage and will continue to provide the best service now and throughout the future.



CTCI Talin Alkylation Project



Akahoshi Co. Ltd., Japan



Kobe Steel Ltd., Japan



Furukawa Electric  
Copper Foil Taiwan



China Steel Chemical Corporation

# MAIN CUSTOMERS

## PETROCHEMICAL Industry

Formosa Plastics Group  
 Chang Chun Group  
 Kaohsiung Monomer Company  
 CAPCO Co., Ltd.  
 Taiwan Styrene Monomer Corporation  
 CPDC Engineering Co., Ltd.  
 CPC Corporation, Taiwan  
 T.N.C Industrial Co., Ltd.  
 Taiwan Chlorine Industries Ltd.

## STEEL Industry

Kobe Steel, Ltd., Japan  
 Akahoshi Co., Ltd.  
 China Steel Corporation  
 China Steel Chemical Corporation  
 China Ecotek Corporation

## ELECTRONICS plant

TSMC  
 AU Optronics  
 Marketech International Corp.  
 Innolux Corporation

## ELECTROLYSIS Plant

Furukawa Circuit Foil Taiwan  
 Furukawa Electric Copper Foil Taiwan

## ENGINEERING Industry

CTCI Corporation

## PAPER Industry

Taiwan Pulp and Paper Corporation  
 Chung-Hua Paper Corporation

## ACADEMIA and RESEARCH

Metal Research and Development Center  
 Industrial Technology Research Institute  
 National Taiwan Ocean University  
 National Pingtung University of Science and Technology

## COMMODITY Industry

Taiwan Rapid Transit Corporation  
 Taiwan Power Corporation  
 Taiyen Biotech Co., Ltd.

# HISTORY

- 1992年 6月  
 Found. Start up from manufacturing Titanium golf clubs.
- 1994年  
 Set up a machine-processing factory. Contract to domestic petrochemical and steel mill industry.
- 1997年  
 Start producing Titanium welded pipes and fittings.  
 Contract to Formosa Plastics Coporation for Titanium pipes and fitting above 60,000DB.
- 2002年  
 Employ automatic Titanium pipe welding technologies.
- 2003年  
 Obtain ISO9001: Quality Management System certification.
- 2006年  
 Move to current location, floor space 5,300m2.
- 2007年  
 Obtain OHSAS-18001: Occupational Health and Safety Act.
- 2010年  
 2nd stage plant expansion. floor space increased to 8,300m2.
- 2011年  
 Acquired Titanium Cooling Backing plate patent.  
 Acquired ASME U,R stamps.
- 2013年  
 3rd stage plant expansion. Floor space increased to 9,900m2.
- 2015年  
 Acquire AWS ASME S stamp.
- 2017年  
 add more automatic welding equipment.  
 4th plant expansion. Floor space increased to 2.72 acres.
- 2018年  
 Add laser cutting equipment.
- 2019年  
 Add CNC machining.  
 Acquire ISO 45001.



# CERTIFICATION / PATENT

## QUALITY CONTROL CERTIFICATION



ISO 45001  
Occupational Health and Safety



ISO 9001  
Quality Management Systems



D-U-N-S registered

## PRESSURE VESSEL MANUFACTURE CERTIFICATION



First Pressure Vessel Manufacture Certification



ASME R

ASME U

ASME S

## PATENT

1. Cooling backing plate manufacturing method
2. Welding device for iron golf head
3. Titanium golf head welding mold
4. Active metal welding and cooling protection system for weld
5. Heating roller structure improvement
6. Laptop Titanium alloy shell elements installation method
7. Jig for Curved and irregular surface welding bead of active metals
8. Welding structure for Joint collector shoe
9. Structure improving for Busbar
10. Material and structural change of hanger for wired rod acid cleaning
11. Heat Exchanger Structural Improvement



Patents for Cooling backing plate manufacturing method



## STAFF CERTIFICATION

3 Certified Welding Inspectors by American Welding Society



Certified Welding Inspectors by American Welding Society



Certified Welding Inspectors by Taiwan Welding Society

## WELDING TECHNICIAN CERTIFICATION

40 Certified Welding Technicians





# FACILITIES

Invert TIG  
Welding Machine  
300-500A



Welding Cross Arm



Rolling Machine



Inventory



Clean Room



CNC Machine

Sewing Machine



Amada Laser  
Cutting Machine



Bevel Machine

# FACILITIES

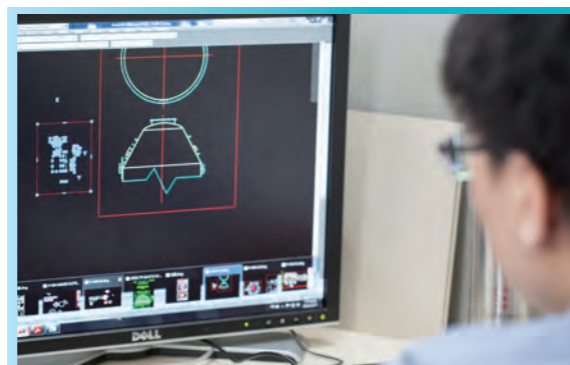


## Quality Control



## Engineering

5 Engineering Designers



# PRODUCT

### MATERIAL SUPPLY



SHEET, PIPE and PIPE FITTING SUPPLY

Active metal: Titanium, Zirconium, Niobium, Tantalum, Nickel  
 Super Alloy: Hastelloy, Monel, Inconel

### MATERIAL IN STOCK

200-300tons of inventory all year round

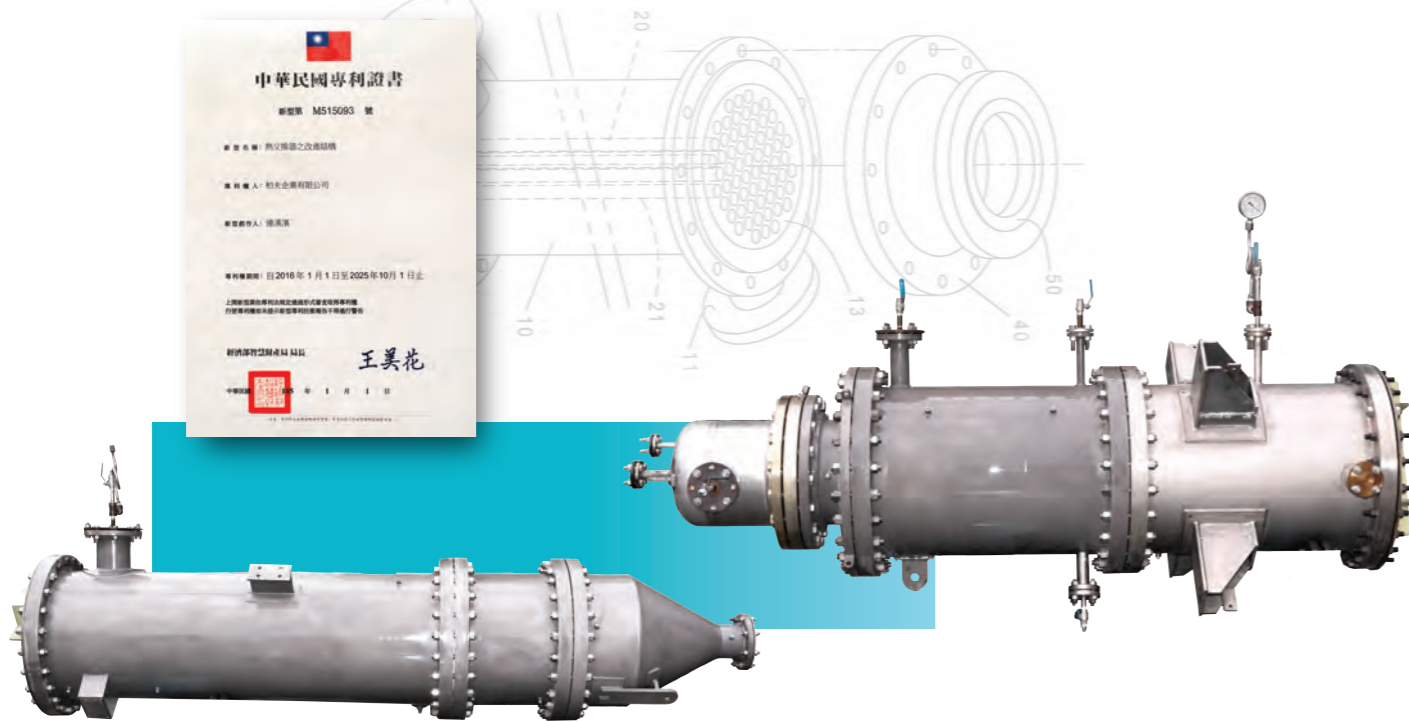


PATENT PRODUCT

Heat Exchanger Structure Improvement Method

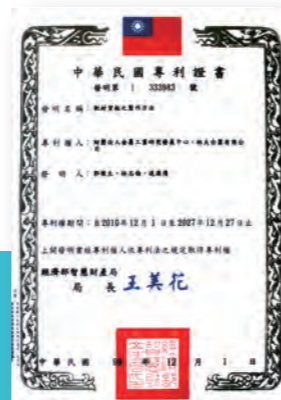
The outer body of the heat exchangers are made with carbon steel in Germany, USA, Netherlands and Japan. The inner surface that contacts the chemical liquid is made with Tantalum. Often times the breakage happens on the seams of where the carbon steel meets Tantalum. The highlight of our patent is to replace carbon steel with Titanium to avoid corrosion, extending the equipment's life to double as long.

Highlights



PATENT PRODUCT

Titanium Cooling Backing Plate



Highlights

1. Combining LASER and TIG Welding – strengthen weld structure.
2. Patented in sealing weld technique of Backing Plate interior watercourse.
3. Straightness within  $\pm 0.2\text{mm}$  - conform to the requirement.

NICKEL REACTOR

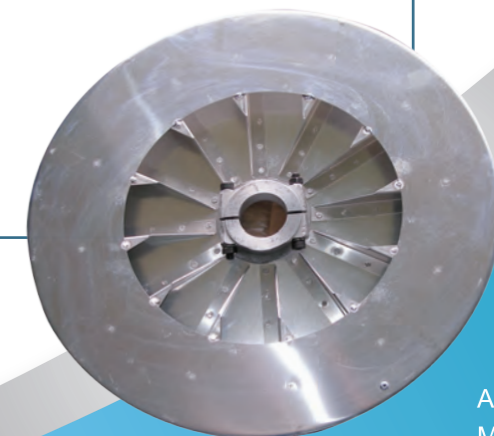


IMPELLER



Titanium Impeller

HAST-C276 Impeller



Aluminium Turbine Motor Ventilator



Ti

TITANIUM

Titanium Tank



Titanium Column



Titanium Reactor



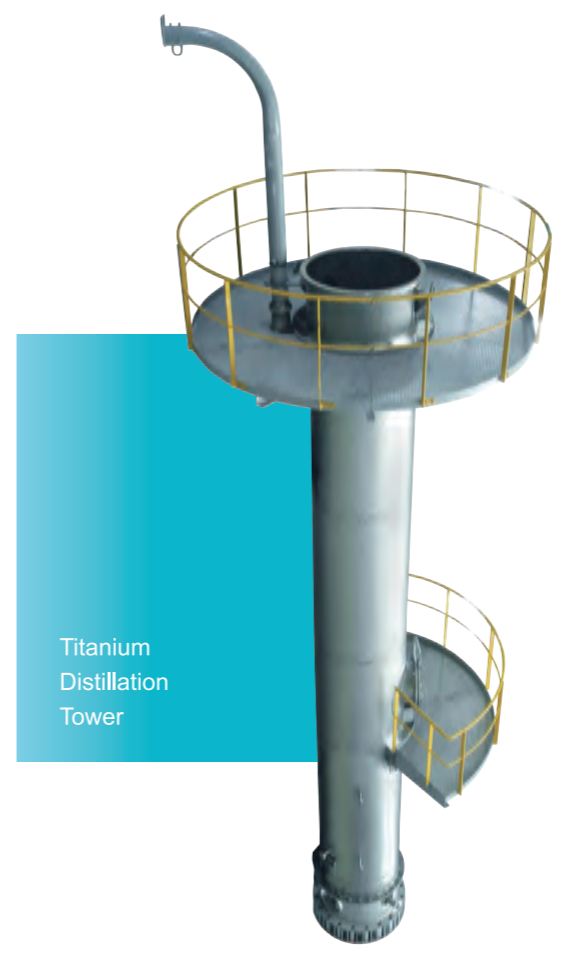
Ti Reboiler



Titanium Heat Exchanger



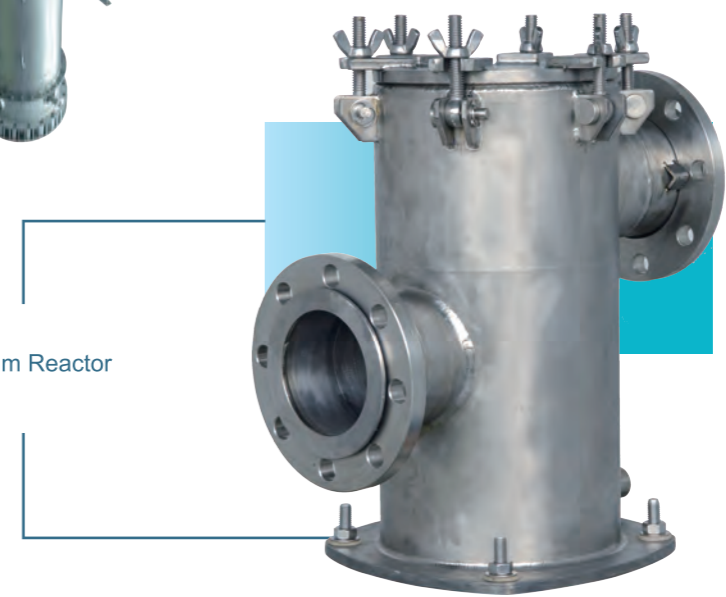
Titanium Distillation Tower



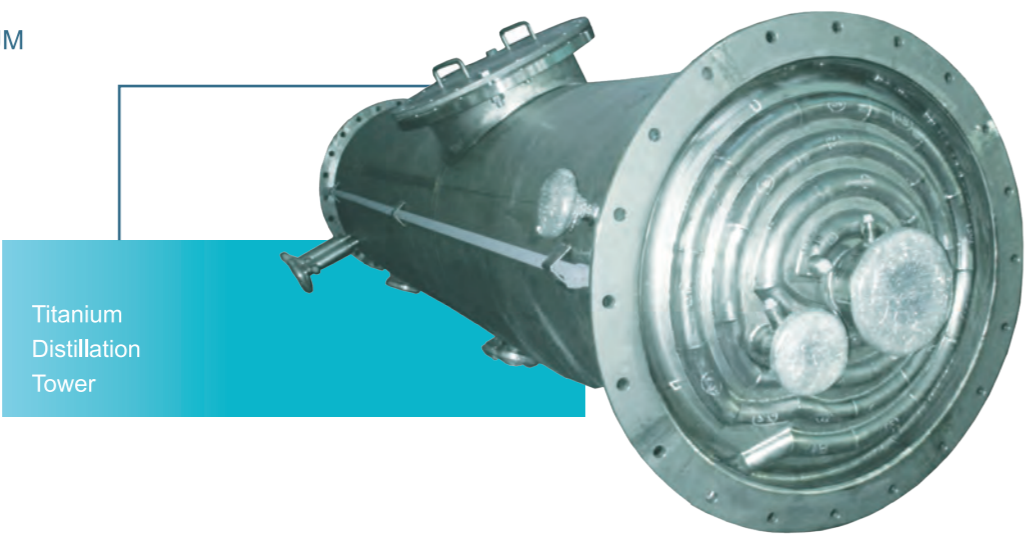
Titanium Nickel Y-Strainer



Titanium Reactor



**Ti** TITANIUM



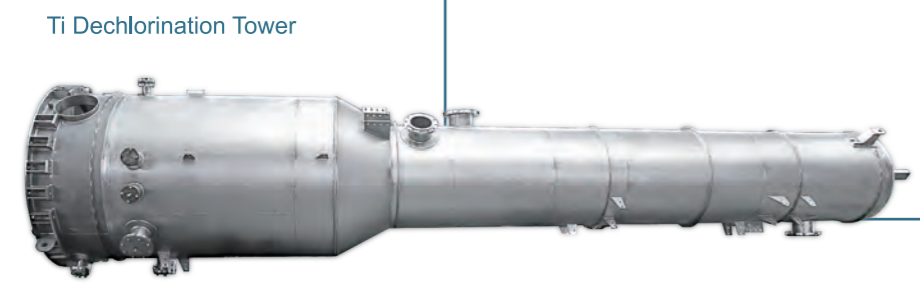
Titanium Distillation Tower



Titanium Coil Heat Exchanger



Ti Top Condenser



Ti Dechlorination Tower



Titanium Mixer



Titanium Mixer



Ti Seawater Filter



Titanium Heater

**Ti** TITANIUM

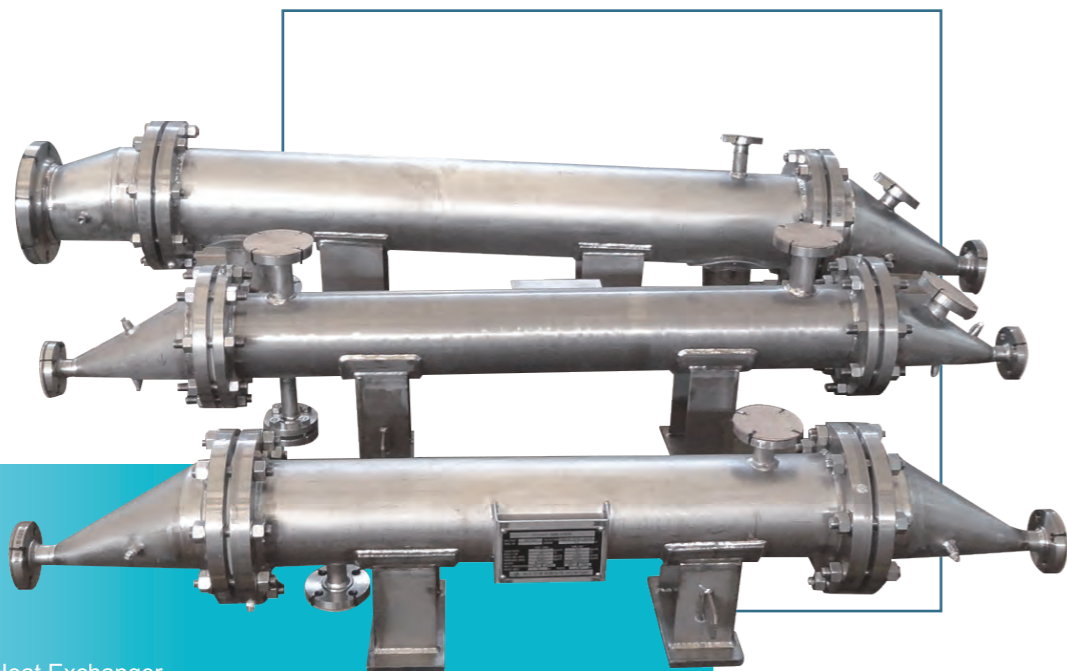


Ti Saltwater Filter Tank



Ti Basket

**Tan** TANTALUM



Tantalum Heat Exchanger

**Zi** ZIRCONIUM



Zirconium Heat Exchanger



Zi Heat Exchanger

Zi ZIRCONIUM



DUPLEX STEEL



Duplex Steel Seawater Desalination Evaporation



Duplex Steel Seawater Desalination Evaporation

Al ALUMINUM



Ni NIOBIUM



# PRODUCT

HASTELLOY



Hastelloy Equipment



C276 Reactor



Hast-B3 Stripping Tower

# SITE SERVICE



Working Inside Our Shop



On Site Service >>>



Petrochemical Plant  
Piping System Installation



Titanium Tower Installation

# WELDING QUALITY

Smooth Shiny and Without Impurities

