

# TITAN

## METAL FABRICATORS

### Reference List

\*Albany Molecular Research Inc.  
Albemarle Corporation  
Air Products and Chemicals  
Alliant Tech Systems  
Aker Kvaerner Chemetics  
Anaconda Nickel  
Arcelor Mittal Steel  
Arcelor Mittal Dofasco  
Arkema  
Asarco LLC  
\*Ash Stevens Inc.  
Asia Silicone Monomer  
\*AstraZeneca  
\*Astellas Pharma  
BAE Systems  
BASF Corporation  
Bayer Crop Science  
\*Baxter Healthcare  
BCS Metal Prep  
Bekaert Corporation  
Bionomic Industries  
\*Boehringer Ingelheim Chemicals  
\* Boulder Scientific  
BP Chemical  
BP Refining  
\*Bristol Meyers Squibb  
Bromine Compounds  
Broomchemie B.V.  
Brush Wellman  
Cal Energy  
Cargill  
Celanese  
CH2M Hill  
Chemithon Corporation  
Cherokee Nitrogen  
Chromalux  
Cognis  
Cytec Industries  
Chem Sult, Inc.  
\*Clariant LSM  
Corus Steel Strip Ltd.  
\*Covidien  
Cytec Industries  
DAK Americas  
Dead Sea Bromine  
De Dietrich Process Systems  
Delphi Chassis  
Dow Corning Corporation  
Dow Corning Limited  
Dow Chemical Corporation

Dow – LAO  
Dufenco S.A.  
Dyno Nobel  
Eastman Chemicals  
Eco – Tec  
Edelstahlwerke Buderus AG  
Eka Chemicals  
\*Elgin Fine Chemicals  
\*Engineered Technologies Corporation  
Energizer  
Evonik Degussa Chemicals  
Formosa Plastics  
Future Fuel  
Exxon Mobil Chemicals  
GE Infrastructure  
\*GlaxoSmithKline  
Goro Nickel  
Great Lakes Chemical  
\* Grünenthal GmbH  
Gujarat Narmada Valley Fertilizers Co.  
Gujarat Carbon & Industries  
Goro Nickel  
Hatch Associates  
\*Janssen Pharma  
Jordan Bromine Company  
I/N TEK  
Ineos  
Industrias Monterrey, SA DE CV  
Indiana Pickling and Processing  
Jordan Bromine Company  
\*Jacobs Engineering  
\*Jintex Corporation  
John Zinc Company  
K2 Pure Solutions  
Kenwal Steel  
\*King Industries  
Kuraray Engineering  
Kureha PGA LLC.  
Lucite International  
Lurgi GmbH  
Mitsubishi Hitachi Metal Machinery  
Molymet Materials  
Momentive Performance Materials  
Monsanto  
Monsanto Europe  
National Galvanizing  
Nease Corporation  
Nelson Steel Technologies  
New Technology Steel  
Noram Engineers & Constructors

\*Noramco  
Nova Steel Processing Centre  
\*Novartis  
Nucor Steel  
Occidental Chemical  
Olin Corporation  
Orica Chemicals  
Oxy Vinyls  
\*Pfizer Pharmaceuticals  
\*Pharmacore  
\*Pharm Eco  
Prime Wheel  
QVF UK Ltd.  
Raventhorpe Ltd.  
RENCO Spa.  
Sabic Innovative Plastics  
Samuel Steel  
\*Schering Plough  
\*Scinopharm  
Severstal North America  
SMS Siemag  
Steel Dynamics  
SR Tennessee  
\*Spec Engineering  
Sunoco Chemicals  
\*Suzhou Novartis  
\*Taiwan Hopax Corporation  
Tasco Chemical  
Tecnicas Reunidas, S.A.  
Terra International  
Thermax  
ThyssenKrupp Steel  
\*Torcan Chemicals  
\*Tyco Healthcare – Mallinkrodt Division  
US Steel Corporation  
Usiminas  
USS Posco  
VAI Tech UK Ltd.  
Vale Inco  
Valero  
\*Waters Corporation  
Weatherly Inc.  
Wheeling Pittsburg Steel  
Worley Parsons  
Worthington Steel Corporation  
Wupperman Stahl

**Company names above represent multiple plant sites and hundreds of pieces of equipment supplied by TITAN.**

**\* Represents customers that use equipment for the manufacture of pharmaceuticals.**

# TITAN

METAL FABRICATORS



**12 FT / 5 FT DIAMETER X 135 FT LONG  
ALLOY 625 / 316L STAINLESS STEEL COLUMN**

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**METAL FABRICATORS**



**(4) TITANIUM HEAT EXCHANGERS PLUMBED IN SERIES FOR COOLING APPLICATION**



# TITAN

METAL FABRICATORS



**14 FT DIAMETER X 85 FT LONG ALLOY 20 COLUMN**

# **TITAN**

**METAL FABRICATORS**



**72" DIAMETER X 30 FT LONG TITANIUM GRADE 2 HEAT EXCHANGERS WITH  
EXPLOSION CLAD BONNET**

# TITAN

METAL FABRICATORS



**120" (3 Meter) Diameter x 30 Ft (9.1Meter) long Titanium Shell and Tube Heat Exchanger**



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**TANTALUM BAYONET HEAT EXCHANGERS FABRICATED BY  
TITAN METAL FABRICATORS, INC.**

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## 11 TANTALUM CONDENSERS / 5 HASTELLOY CONDENSERS FOR PHARMACEUTICAL APPLICATIONS



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**1 OF 5 HASTELLOY CONDENSERS FOR  
PHARMACEUTICAL APPLICATION WITH POLISHED TUBESIDE, GLASS  
END COVERS AND INTERGRAL INSULATION WITH STAINLESS STEEL  
SHEATHING**

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## TITANIUM HEAT EXCHANGER FOR GAS COOLING APPLICATIONS



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**SOLID TITANIUM TUBE BUNDLES FABRICATED BY  
TITAN METAL FABRICATORS, INC.**



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**TANTALUM LINED CARBON STEEL COLUMN FABRICATED BY  
TITAN METAL FABRICATORS, INC.**

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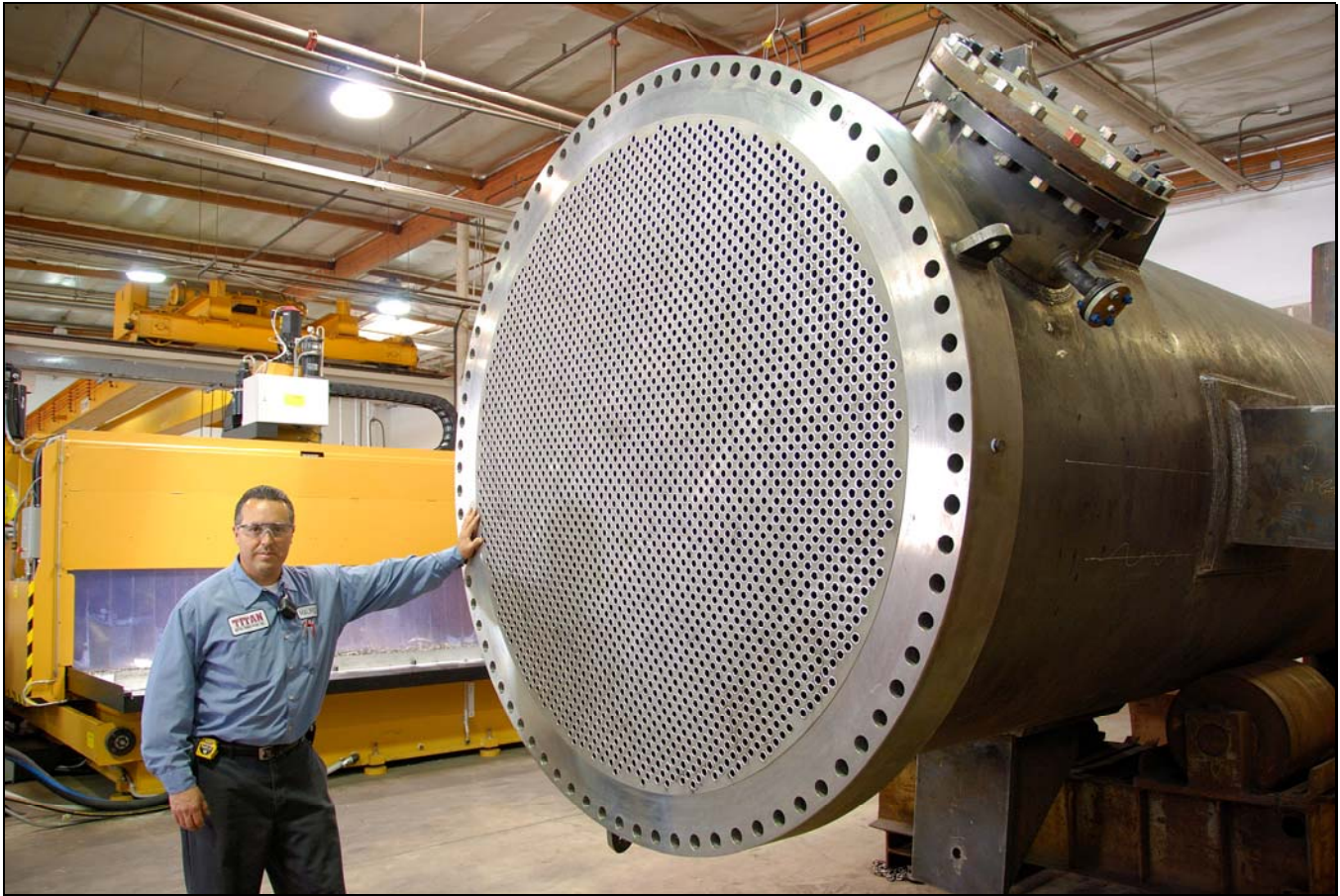


**ONE OF THREE TITANIUM HEAT EXCHANGERS WITH EXPLOSION CLAD BONNETS  
FOR THE MANUFACTURE FOR PTA**



# **TITAN**

**METAL FABRICATORS**



**72" DIAMETER TITANIUM HEAT EXCHANGERS WITH EXPLOSION CLAD TUBESHEETS  
FOR THE MANUFACTURE FOR PTA**



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**ALLOY 825 TUBE BUNDLE FOR REFINERY SERVICE**

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**HASTELLOY C PRESSURE VESSEL**