



SOLUTIONS FOR CHEMICAL PRODUCERS

WORLDWIDE

2024 Line Card



WHO WE ARE

Headquartered in Western Pennsylvania, United States, with satellite manufacturing facilities in Tampa, Florida, and India, Apex Engineered Products is a Designer, Fabricator, and Supplier of Premium Chemical Process Equipment for major producers worldwide. Founded in 2001, the company focuses on the design and fabrication of no-compromise 21st-Century solutions utilizing best-in-class processes.

**EXPERTS IN EXOTIC METALS
FABRICATION FOR HIGHLY-CORROSIVE
CHEMICAL PROCESS INDUSTRIES**

WHAT WE DO

Our primary product lines focus on Chlor-Alkali, Phosphoric Acid, Sulfuric Acid, Nitric Acid, Ammonium Nitrate, Evaporation, Oil & Gas, Geothermal, Cryogenics, General Chemical, Steel, and Potash industries, and include: Heat Exchangers, Pressure Vessels, Tanks, Reactors, Coolers, Condensers, Gas Heaters, Reheaters, Evaporators, Vaporizers, Coils, Reboilers, and Custom Fabrications.

WHY CHOOSE APEX



With combined professional experience of hundreds of years, we can tackle projects of any size, and of every level of complexity.



We are an early adaptor and pioneer of many technologies that are a staple of modern chemical process equipment design and fabrication.



We hold all required domestic and international accreditations and certifications. Our fabrications are an industry benchmark for reliability and service longevity.



CALL NOW
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Line Card

MATERIALS OF CONSTRUCTION

Reactive Metals

Zirconium
Titanium (Gr. 2, 7, 11, 16)
Niobium
Tantalum (Pure & 2%W Alloy)
Stainless Steel (304, 310, 316, 318, 321, 347, 410)
Graphite
HXT Tube



Nickel Alloys

Nickel Alloys (200 & 201)
VDM (31®, 31 Plus, 33® & 59®)
Hastelloy (200, C276, C22, B2, B3, G30, G35)
Monel 400 Series
Inconel (600, 625, 686)
Incoloy (800, 800H)

Duplexes (2205, 2RE69, 25.22.2, 2RE10)
Alloy 20
Sanicro 28®, 35®

We also have extensive experience in Explosion-Clad applications, and Alloy 25.22.2 for Urea applications.

FABRICATION TYPES

Heat Exchangers
Pressure Vessels
Tanks
Reactors

Coolers
Condensers
Gas Heaters
Gas Reheaters
Evaporators

Vaporizers
Coils
Vessels
Columns
Custom Fabrications

TECHNOLOGY

Welding

- K-Tig
- Miller MIG Welding Machines
- 12+ Miller TIG Welding Machines
- 9'x12' Column and Boom Submerged Arc Manipulator
- Numerous Welding Positioners and Rollers
- Buggo GO-FERR III, Model GOF-3240-OX
- Proprietary Automated TIG Seam Welder APX9A
- Astro Arc Polysoude Model. PS406

Cutting

- Omax Maxim Water Jet 6'x12' cutting area
- Cincinnati Shear 3/8" Capacity at 16 ft
- Hem VT125 Vertical Saw

Rolling

- Webb Plate Rolls 2.5" x 24" and 1.25 x 120"
- Bertsch 3/8" x 8ft Plate Roll
- Bertsch Angle Roll
- Pipe and Tubing Rolling Machine

Drilling

- QuickMill
- NumeriCenter

Machining

- Mitsubishi VM-70N Vertical Machining Center
- Farley LaserLab Fabricator
- (6) Lathes up to 36" Dia and 13' machining length
- 48" & 74" Vertical Turning Lathes
- (2) Bridgeport Mills
- Heavy-Duty Sharp Vertical Mill
- (2) Large Radial Arm Drills

Forming

- Cincinnati 400-ton 16' Press Brake
- Cincinnati 350-ton 12' Press Brake
- Standard Industrial 750-ton Stamping Press

Punching

- Whitney 50 ton Punch Press
- GEKA 50 ton Ironworker

Material Handling

- 20 ton and 5 ton Overhead Cranes
- Numerous Forklifts and material handling equipment

INDUSTRIES SERVED

Chemical
Petrochemical
Power Plants
Geothermal
ChlorAlkali
Steel Processing
Food & Beverage

Cosmetics
Pulp & Paper
Desalinization
Mining
Refinery
Off-Shore Technologies

Chlor-Alkali

Chlorine Vaporizers
Caustic Condensers
Coils
Briner Heaters
Monel
Hastelloy

Evaporation

Water Treatment
Phosphoric Acid
Concentration
Caustic
Lithium Brine

Phosphoric Acid

Evaporators Using VDM
Alloy 31
G-35 & Sandvik Sanicro 28

Oil & Gas, Geo-Thermal

Scrubbers
Demisters
Heat Exchangers
Steam Generators

Sulfuric Acid

Sulfuric Acid Coolers with Anodic Protection and SX Materials
904L
2545 SMD
AL6XN

General Chemical, Steel, Other

Pickling Heaters
Tanks
Reactors
Tantalum
Nickel Alloys

Nitric Acid-Ammonium Nitrate

Condensers
Reboilers
Tail Gas Heaters
Zirconium

Potash

Evaporators with all Titanium Grades
INCONEL

R&D And Design

- PV Elite: Mechanical Calculations; ASME Code Section VIII, Div. 1; CRN available
- Solidworks: Design & Modeling Non-Vessel Fabrications
- ASPEN / BJAC: Thermal Calculations, Ratings, Data Sheets
- HTRI: Thermal Calculations, Ratings, Data Sheets
- FEA: Finite Element Analysis for designs not covered by ASME Code

PROFESSIONAL ACCREDITATIONS



AICHE



NACE
International



ThyssenKrupp



VDM Metals
Materials for the future.

