Company Introduction

www.advantorr.com
www.gnbvac.com

Vision (Quality Policy)

GNB's Customers will be so impressed that they say:

"Wow! We'd like to do business with GNB again!"

Mission

Partnering to provide vacuum and UHP products, services: Excellence!

Quality Objectives

Capability Responsiveness Cost

Core Values

"PASSION"

Professionalism, Attitude/Agility, Safety, Skill, Integrity ON every Project

Quick Facts

- Located in Elk Grove, CA
- Founded in 1968
- Approx. 95 employees
- Production of Vacuum Valves, Chambers, vacuum manifolds and UHP weldments
- Specialized in welding and machining of steel and aluminum
- Distribution of KL Advantorr vacuum components
- Onsite Engineering
- ISO9001 certified

Timeline

Timeline of GNB Corporation

GNB Becomes Well Known for Big Valves

1972

GNB Bought by Sierra Concepts Corporation

1990

ISO Certificate

2008

California Prospector Award

2010

GNB Develops Space Saver Gate Valve

2015

KL America created to sell Sanitary Products

2020

1968

Gary N. Burnett starts GNB Corporation

1980

GNB Launches Vacuum Chamber Line

2001

GNB Relocates to Elk Grove, CA

2011

CNB Builds LIGO Project

2016

GNB Bought by King Lai Group

2022

GNB Launches Semiconductor Weldment Division

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GNB's Production Facility

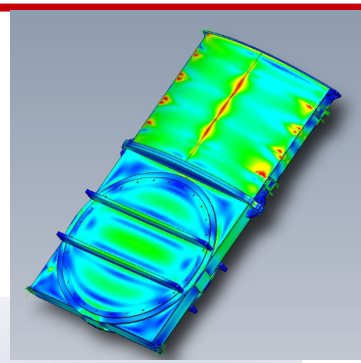
- 70,000 square foot (7000 square meter) facility
- Specialized in welding of stainless steel, carbon steel and aluminum. (TIG, MIG, SubArc)
- Orbital welding for LOD and UHP weldments
- Class 1000 (ISO 6) and class 100 (ISO 5) cleanrooms
- ASME CWI (certified welding inspectors) on site
- non-destructive testing (ultrasonic and Dye penetrant inspection)
- CNC machining up to 168"sq. (4267mm sq.) / turning 108" (2743mm)
- Bead blasting and plate graining in house

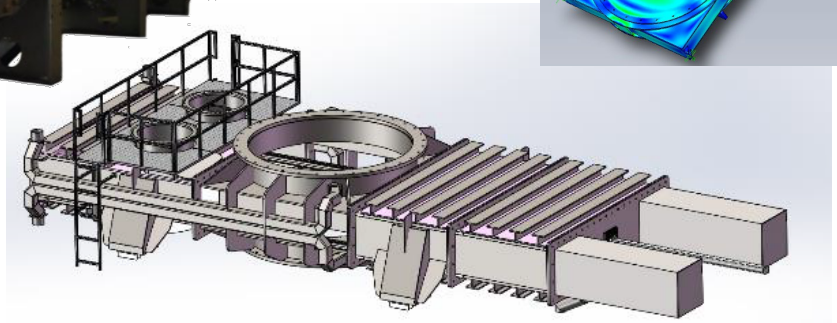
Built for Vacuum Production

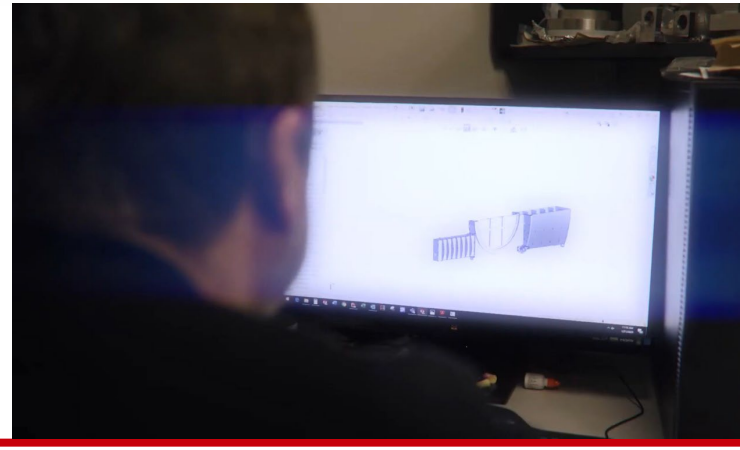
- Helium Leak test is Standard for all components
- Bakeout and RGA available
- Cleaning equipment for vacuum components
- Partnership with local suppliers for chemical cleaning and electro polishing

GNB Engineering

- 10 full time design engineers
- Solid Works CAD software
- FEM stress and deflection calculations
- Design of ASME pressure vessels (U-Stamp)
- Thermal Calculations
- Specialized in water cooling for high temp. valves and chambers
- Flow calculations
- Experts in value engineering to reduce costs of vacuum components







GNB Vacuum Valves

- Gate, Angle and Slit Valves
- Standard sizes from 4” (ISO100) to 72” (1.8m) available
- Custom valves up to 4meter diameter
- Stainless, Mild Steel and Aluminum construction
- Sealing technology from rough vacuum to UHV
- Water cooling features for high temperature processes
- Unique designs for harsh environments
- Pneumatic, Electric, Hydraulic and Manual actuators

GNB Chambers

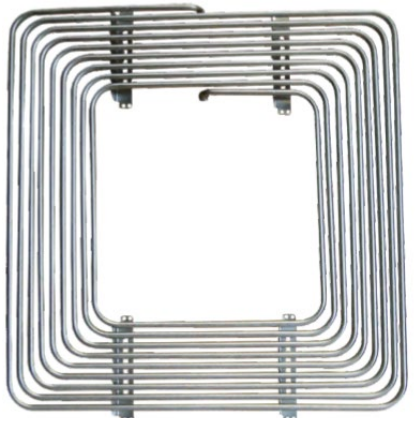
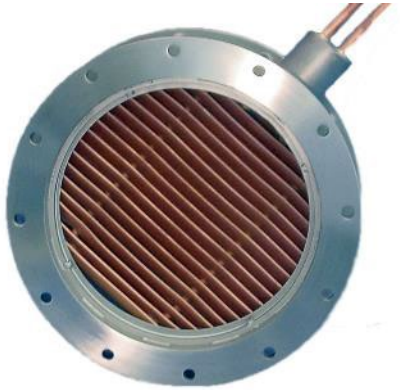
- Small to very large chambers
- Built to print or completely engineered to specification
- Sealing surfaces are machined after welding
- Steel or Aluminum construction
- Water cooling options. (tracing, double wall)
- Different surface finishes (mill finish, blasted, grained, e-polish,..)
- Can be cleaned for UHV service

GNB Semiconductor Products

- Saw Cutting Parts Per Length (.5” up to 6”)
- Orbital, Lathe, and Manual Welding
- DI Wash Station and Nitrogen Drying
- Vacuum Leak Check Parts at 10X-9
- Custom Engraving (Up to 10” Flange)
- Nitrogen Filled, Vacuum Sealed Bags Inside Class 1000 and 100 Cleanroom

GNB Baffles and Cryo Products

- Platen and Shroud for Thermal Vacuum Systems
- Multi Coolant Baffles
- Liquid Nitrogen traps
- Cold Traps
- Heat Shields
- Meissner Coils

Questions?

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