

# GNB Company Introduction



# Quick Facts

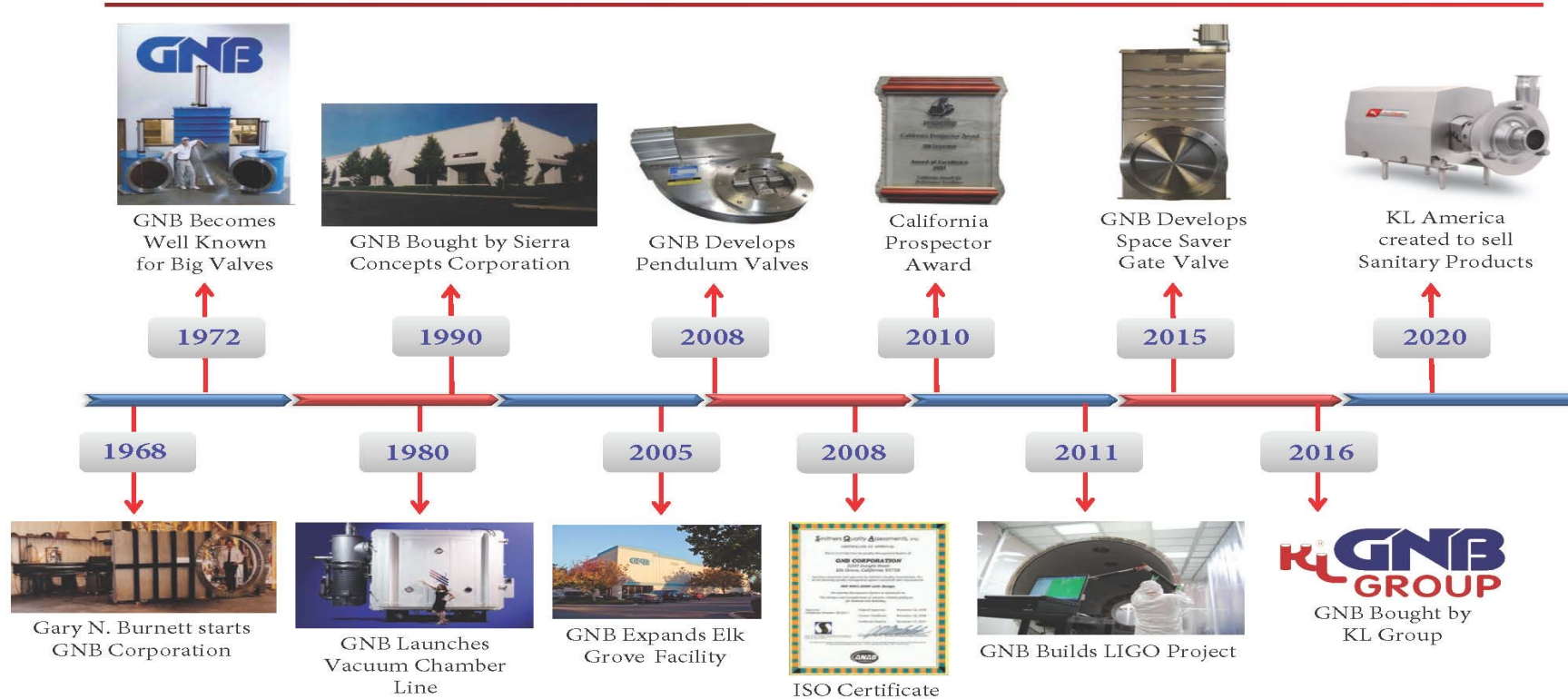


- Located in Elk Grove, CA
- Founded in 1968
- Approx. 75 employees
- Production of Vacuum Valves and Vacuum Chambers
- Specialized in welding and machining of steel and aluminum
- Onsite Engineering
- ISO9001 certified



# Timeline

## Timeline of GNB Corporation





# GNB's Production Facility



- 70,000 square foot (7000 square meter) facility
- 5 Axis Waterjet 12'x8' (3.6m x 2.4m)
- TIG and MIG welding of Aluminum, Steel
- Automated welding for spool pieces
- 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

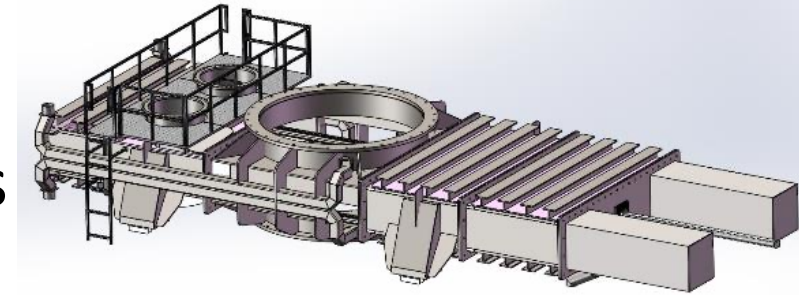
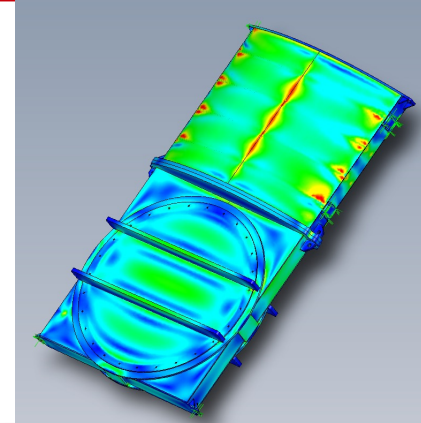
- Helium Leak test is Standard for all components
- Bakeout and RGA available
- Cleaning equipment for vacuum components
- Partnership with local suppliers for chemical cleaning and electro polishing
- Class 10,000 clean room available





# GNB Engineering

- 8 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

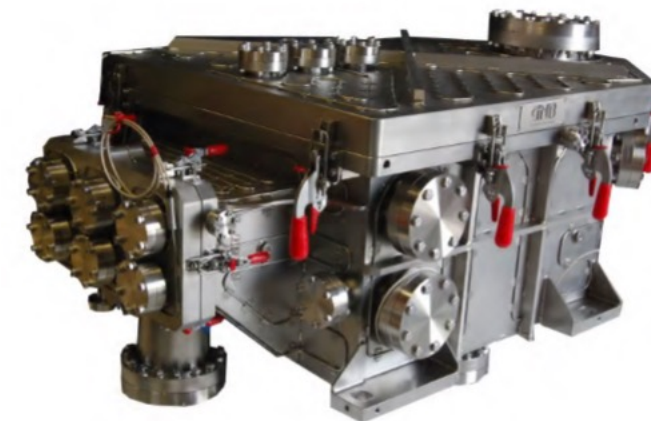


- Gate, Angle and Slit Valves
- Standard sizes from 4" (ISO100) to 72" (1.8m) available
- Custom valves up to 4meter diameter
- Stainless, Mild Steel and Aluminum construction
- Sealing technology from rough vacuum to UHV
- Water cooling features for high temperature processes
- Unique designs for harsh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



# GNB Chambers

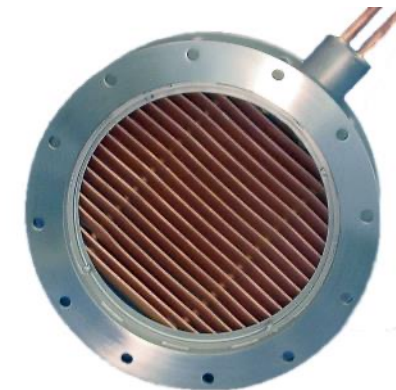
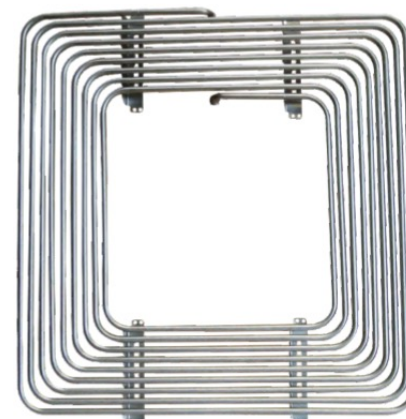
- Small to very large chambers
- Built to print or completely engineered to specification
- Sealing surfaces are machined after welding
- Steel or Aluminum construction
- Water cooling options. (tracing, double wall)
- Different surface finishes (mill finish, blasted, grained, e-polish,..)
- Can be cleaned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





# GNB Baffles and Cryo Products

- Multi Coolant Baffles
- Liquid Nitrogen traps
- Cold Traps
- Heat Shields
- Meissner Coils





# Questions?

Thank you very much for your attention!

