**PRODUCT RANGE**

- Up to 400 MVA 345 kV / 1400 MVA 500 kV
- BIL 1675 kV
- LTC / DETC
- Medium Power Transformers
- Large Power Transformers
- GSU Transformers
- Auto-Transformers
- Padmount Transformers
- Traction Transformers
- Rectifier Transformers

**KEY PRODUCT FEATURES**

- Torqued bolts with pre-compressed washers to maintain contact pressure
- Selection of pressure points on the end ring to apply uniform pressure on the coil
- Coil compression using Hydraulic isostatic
- Robotic Welding
- Leak free nitrogen system
- Polyurethane on Epoxy Paint systems
- Lifting eyes and jacking pads protection from paint damage
- Checking contact resistance of crimps
- Touch up paint for incidental use
- Installation video
- Winding tension for short circuit strength
- VCM to monitor moisture and Hydrogen – sends signals for diagnosis / lifetime assessment
- All metal edges are rounded
- Corona shields on bolt heads
- Testing of DETC and switches for ease of turning - not binding
- Securing the shaft of DETC from disengaging
- Lifting lug designed with safety factor 5
- Laser assembly of core and coil to maintain alignment for clearance uniformity
- End rings are designed to absorb short circuit force
- Oil moisture PPM and dielectric assurance

**OUR FOUR PLANTS**

- Chihuahua MX
- Roanoke VA
- Pocatello ID
- Rincon GA

**47,000 MVA ANNUAL CAPACITY**

**POWER TRANSFORMERS MADE IN USA**

**THE ALLIANCE OF VTC AND GTC HAS CREATED NATION'S LARGEST TRANSFORMER BUSINESS BY CAPACITY**
FIELD SERVICES
Field installations, maintenance and repairs for electrical substations supported by experienced design engineers and service specialists.

TESTING
A full array of tests including inspection, analysis and recommendations for peak operation is available.

OUR FACILITIES

**VTCR - Roanoke, VA**
- Headquarters for Virginia Transformer
- Over 45 years of reliable, high quality custom small and medium power transformers
- Environmentally controlled, positive pressure winding room
- Soenen core cutting machine
- Robotic welding of tanks
- Vapor Phase Drying
- Test room is capable of testing 2 units simultaneously up to 750 KV BIL
- Paint operations offers a full spectrum of paint options for all environments

**GTC - Rincon, GA**
- CNC centers for insulation components – 5 axis machine room
- Vertical and horizontal computer controlled winding machines
- Astronics core cutting machine with fully automated & integrated E-stacker
- Coil Phase drying with Vapor Phase technology to achieve .5% moisture
- Air cushion transportation to move all heavy components
- Multi-point bridge cranes with varying capacities (up to 400 metric tons)
- Shipping/rail siding area equipped with special gantry cranes
- Computer controlled oil processing and filling system
- Vapor Phase Drying of complete core and coil assembly
- HV Test Lab with capabilities to 2,050 KV BIL & 765 kV (computer integrated)
- Fully air conditioned 250,000 sq. ft. building for dryness and personal comfort

**VTCU - Pocatello, ID**
- Medium and large power transformers
- Equipped with its own rail siding spur to plant
- Winding rooms are climate and environmentally controlled
- Isolated metal fabrication
- Insulation cutting and fabrication shop
- Vapor Phase Drying
- Two separate core cutting lines, computer controlled for low loss step lap cutting producing burrs of less than .001” (1,000 millimeter)
- Two complete testing stations – 1200 kV Impulse Generator
- Testing equipment: moisture in oil and insulation, oil in BDV, particles in oil and air, optical burr measurement

**VTCW - Chihuahua, MX**
- One of the most modern transformer manufacturing plants in North America
- Environmentally controlled winding and manufacturing areas
- Robotic Welding
- Automated test equipment with digital instrumentation
- 500 kV Impulse Generator
- Automatic Test Data Acquisition equipment

KEY BENEFITS
- No delay in start up - Savings ($$)
- No failure due to internal defects - Savings ($$$)
- Can offer 5, 10, 15 year warranty (Peace of Mind)
- Prompt, Hassle-free warranty service - Savings ($$$)
- Expect 60 years of service - Savings ($$$)

**Virginia Transformer Corp**
- Headquarters
  - 220 Glade View Drive
  - Roanoke, VA 24012 USA
  - Phone: 540.345.9892
  - www.vatransformer.com
- VTCR - Roanoke, VA
  - Phone: 540.345.9892
- VTCU - Pocatello, ID
  - Phone: 208.238.0720
- VTCW - Chihuahua, MX
  - Phone: 52.614.483.0000

**Georgia Transformer**
- Georgia Transformer
  - 2789 Highway 21 South
  - Rincon, GA 31326 USA
  - Phone: 912.754.5300
  - www.gatransformer.com
- GTC - Rincon, GA
  - Phone: 208.238.0720
- VTCU - Pocatello, ID
  - Phone: 208.238.0720