

POWER TRANSFORMERS MADE IN USA

THE ALLIANCE OF VTC AND GTC HAS CREATED NATION'S LARGEST TRANSFORMER BUSINESS BY CAPACITY



Since 1971



Since 1950
(as Efacec)

OUR FOUR PLANTS



CHIHUAHUA, MX

15 MVA 115 kV
0.5 MVA 4.1 kV



ROANOKE, VA

30 MVA 138 kV
5 MVA 34.5 kV



POCATELLO, ID

100 MVA 230 kV
12 MVA 69 kV



RINCON GA

400 MVA 525 kV
30 MVA 115 kV

47,000 MVA ANNUAL CAPACITY

PRODUCT RANGE

Up to 400 MVA 525 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 FACILITIES

KEY PLANT CAPABILITIES

VTCR - Roanoke, VA



- Headquarters for Virginia Transformer
- Nearly 50 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 (\$\$)



FIELD SERVICE

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

Virginia Transformer Corp

Georgia Transformer

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