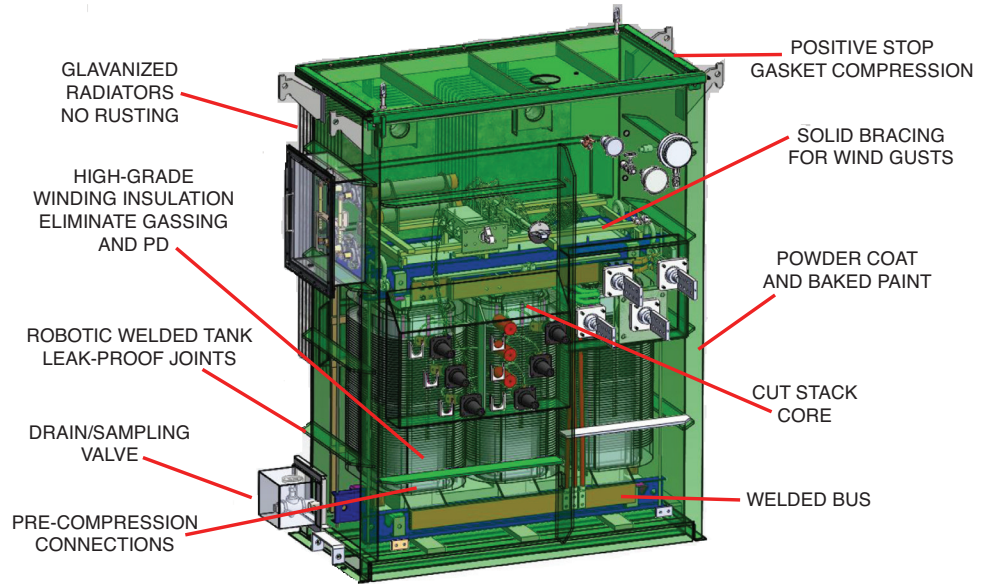


# PAD MOUNT TRANSFORMERS FOR UTILITIES



ISO 9001-2015 Certified

## Pad Mount Transformers for Utility Market | Drivers

Pad mount transformers for utility market are ground-mounted on a concrete pad and are distribution transformers that service underground power networks. The transformers step down the distribution voltage to the secondary voltage for residential, commercial and industrial loads. The fully enclosed, compact, low sound, weatherproof construction and tamper-proof features makes these transformers a preferred choice for installation in public areas. These transformers are available in single-phase three-phase and grounding (Zig Zag) configurations. Primary drivers for growth in Pad Mount Transformers for utility market include:

- Expansion of rural and urban residential communities
- Growing investment in upgrade of ageing utility infrastructure and transmission & distribution networks
- Need for safe, low sound, compact, reliable distribution transformers in public access areas
- High efficiency, DOE guidelines
- Growth in Digital infrastructure with harmonic loading

**Virginia-Georgia Transformer Pad-Mount solutions**

**Virginia-Georgia Transformer (VT-GT) is a market leader in power transformers and has been in business since 1971.** Our Leadership in design and manufacturing experience for pad-mount Transformer applications for Public power and Municipals utilities, includes special considerations for

- Operating in harsh outdoor environments
- Tamper-proof design with kirk-key interlock and padlock provisions for Public safety
- Live or Dead Front construction, loop feed or radial feed
- Designed to meet system harmonic profile
- Overvoltage and Over current Protection
- Saturation and Power Factor

**VT-GT is a proud American manufacturer – complying with the President’s Executive Order on bulk power systems and majority domestic sourcing with regard to SEC 232. VT-GT offers transformers with a 60-year life through best-in-class design and manufacturing, with installed base of 25000 transformers in North America and the best lead times in the industry. All of VT-GT’s transformers are custom designed to client specification by certified technicians.**

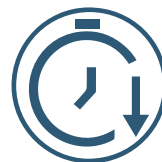
## Pad Mount Value Drivers



ROBUST ENGINEERING



SAFETY



MINIMAL DOWNTIME



24/7 SERVICE SUPPORT



VIRGINIA - GEORGIA TRANSFORMER

## Solutions

**Design and Manufacturing technology for BESS special requirements:**

- ✓ System Harmonic Profile
- ✓ Over voltages
- ✓ Saturation
- ✓ Power Factor

**Safety Engineered as part of the design:**

- ✓ Kirk Key Interlock provision
- ✓ Padlock provision
- ✓ Dead Front bushings
- ✓ Tamper Proof

**60 YEAR LIFE THROUGH:**

- ✓ Industry Leading MTBF\*
  - ✓ Robust Engineering
  - ✓ Flawless Execution
  - ✓ Continuous Monitoring
  - ✓ 5Q Quality Model
  - ✓ 24/7 Continuous Monitoring & Service
  - ✓ World Class Partial Discharge Levels < 100 pC
- MTBF\*-Mean Time Between Failures

**24 / 7 SERVICE SUPPORT:**

- ✓ Experienced Service Team with state-of-the-art equipment & Pan-US coverage
- ✓ Monitoring Capability at SCADA and Remote level
- ✓ Aftermarket Spare Parts & Service Team
- ✓ 24 / 7 Call Support



VIRGINIA - GEORGIA TRANSFORMER  
ONE SOURCE-ONE COMMITMENT



Minority Business Enterprise

# VT-GT Pad Mount Installed Base

- Over 3000 units installed in past 8 years
- Product range: 33 KVA - 10 MVA, 4.16 kV - 35 kV

## TYPES OF PAD MOUNT TRANSFORMERS

- Single Phase Distribution
- Three-Phase Distribution
- GSU
- Grounding transformer

## STANDARD FEATURES

- Commercial, residential and Industrial applications
- Dead-Front or Live Front configuration
- Loop or Radial feed applications
- Rating: Up to 10 MVA
- High Voltage: Up to 35 kV Delta or Wye Connected
- BIL: 200 kV
- Step-Up or Step-Down operation
- Aluminum or Copper Windings
- Fluid: Mineral Oil or FR3 biodegradable oil
- Temperature Rise: 55°, 65° or 75°
- Design Construction: 3-Legged stacked core
- Design mitigates heating, gassing, and partial discharge

## OPTIONAL FEATURES

- Electrostatic shielding
- Fluid: Environmentally friendly or high flashpoint Envirotemp™ FR3™
- Designed to maximize efficiency (extreme low loss)
- Customized impedance to match system short circuit requirements
- Temperature rise: 55° C / 65 / 75C
- Infrared window
- External mounted weak link fuse box for quick replacement
- Current limiting fuses
- Load-break switch (2 and 4 position)
- Rad valves for ease of replacement
- Circuit Breakers
- Stainless Steel construction
- CSA, IEC, UL



## OUR HISTORY

## ABOUT US

Virginia Transformer – Georgia Transformer is a US-based Corporation that has been in business for nearly 50 years with 4 plants in North America designing and manufacturing a full line of Power Transformers from 500 kVA to 500 MVA, and up to 500 kV class.

**Our Value Proposition:** We promise to supply the most “Resilient” Power Transformer designed for 60 years life, that will meet 24/7/365 resilient power needs of the Customer.

Our value proposition is based on three key process philosophies:

- **Robust Design** developed by expert engineers with over 300 years of electrical design experience using proprietary digital design tools, verified by off-the-shelf arsenal of digital simulation tools and executed with efficient proven processes
- **Flawless Execution** based on 3T-Pillars: Training, Technology and Transformer Manufacturing Processes
- **Continuous Monitoring of Transformers** using VCM Technology supported by 24/7 full-fledged Service Organization

Virginia – Georgia Transformer takes pride in being a Minority Business Enterprise - equipped with newer technology, state-of-the-art equipment, highly qualified & experienced engineers and overall improved processes – which allows us to provide the most reliable products, and the shortest lead time in the Industry.

