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.

VT-GT is ISO 9001-2015 Certified
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.

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

1970
VT established to provide power transformers to the mining industry in the Appalachian mountains

1971
VTCR Moved to new, larger facility

1980
VTCR Moved to new, larger facility

1982
Current CEO assumes management

1990
Opened 2nd manufacturing facility in Chihuahua, Mexico

1991
Achieved ISO Certification

2000
Acquired power transformer facility in Pocatello, ID

2010
Expand Product Range thru alliance with GTC

2013
Manufactured 300 MVA Transformer

2015
Plant expansion for new core cutting machine

2019
Infrared window

2020
External mounted weak link fuse box for quick replacement

ABOUT US

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