



VIRGINIA - GEORGIA TRANSFORMER  
ONE SOURCE-ONE COMMITMENT

# RELIABLE TRANSFORMERS FOR MINING

## CUSTOM BUILT TRANSFORMERS FOR THE MINING INDUSTRY

Mining is a vital industry that relies heavily on dependable power infrastructure. Mining operations are contingent upon a steady supply of energy to extract and utilize natural resources, such as aggregates, precious metals, iron ore, and coal. The machinery used in this process requires a substantial amount of reliable power.

Transformers play a central role in mining, facilitating the conversion of distribution power into operations at the load center. Given the transformer's significance in this industry, each unit must meet many requirements in safety, reliability, and efficiency, with load losses kept to a minimum.

Virginia Transformer Corporation takes pride in its commitment to designing the most efficient transformers in the industry, aimed at reducing losses and costs while maximizing reliability and performance.

Mining operations take place in harsh environments surrounded by dust, dirt, chemicals, moisture, and airborne contaminants. These conditions can negatively affect the internal functionality of the transformer, which underscores the necessity of robust external safeguards. Virginia Transformer offers systems designed to protect each unit based on its unique environment.

### 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

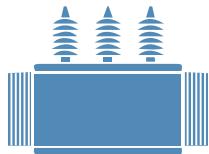
67,000 MVA Annual Capacity

With five manufacturing plants in North America, Virginia - Georgia Transformer is the largest US-owned manufacturer of power transformers and offers the broadest product range.



[vatransformer.com](http://vatransformer.com)

# WHAT WE OFFER



## POWER TRANSFORMERS

Transformers have diverse applications within the mining industry, requiring the use of both liquid-filled and dry-type units. Liquid-filled units have a greater overload capacity, are better at reducing hot-spot coil temperatures, and have lower losses due to their thermal dissipation. These units are preferred for lower ratings in indoor settings. Dry types are traditionally sealed or enclosed with louvers. These units use almost no flammable materials and do not present a fire hazard when used in mines. Virginia Transformer offers both liquid-filled and dry-type transformers from 300 kVA to 300 MVA, TENV (Totally Enclosed, Non-Ventilated) dry-type transformers, and dry-type units for indoor application up to 5000 kV. Backed by advanced engineering and refined manufacturing processes, Virginia Transformer is renowned for delivering reliable and enduring units that are custom built to client specifications.



### What VTC Does

At Virginia Transformer, we provide custom-built transformers tailored to meet your specific needs. Our reputation as the leading power transformer manufacturer stems from our expertise in exceeding demanding system requirements, including spatial constraints, voltage configurations, and environmental challenges.

Providing high-quality, reliable units starts with our engineering strength. Our team boasts more than 15,000 designs to provide built-to-spec transformers for every application. Our application and sales engineers review the technical specifications and determine the optimal solution. From there, our electrical, mechanical, and control design engineers utilize cutting-edge tools to provide drawing packages with the shortest lead times, setting us apart as the top solution-oriented transformer manufacturer.

### Market Representation

At Virginia Transformer, we use a network of knowledgeable independent manufacturer representatives to enhance our customer service experience. These representatives augment our team of sales engineers and application engineers to deliver the ideal solution for each client's specific application.

### Additional Special Application Transformers

- Three Phase Voltage Regulators
- Single Phase Transformers
- Zig-Zag Grounding Transformers
- Scott-Tee Connected (converts 3 phase to 2 phase)
- Load Tap Changing
- Autotransformers
- Multi-Winding Secondary/Drive Duty/Rectifier
- Large Specialty Padmounts
- Drive Isolation Transformers (18/24/36 pulse available)
- Variable Speed Drive Transformers
- Up to 20,000 Horsepower for AC and DC Motors

### VTC MINING CUSTOMERS



RioTinto



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