



## Liquid Filled Custom & Specialty SUBSTATION TRANSFORMERS



PROUDLY MADE IN THE USA BY AN AMERICAN COMPANY



# Custom & Specialty Substation Transformers

- THRU 10,000 KVA
- 200 KV BIL AND BELOW

VanTran Industries is a global leader in custom and specialty substation transformers. With nearly 50 years of experience in the liquid filled transformer industry, you can count on VanTran for quality, durability and reliability. All of our transformers are manufactured in-house with 100% new materials. We design and wind all of our coils, we form and heat-treat all of our cores, and we weld and fabricate all of our sheet metal components. VanTran's vertical manufacturing processes give it the flexibility to design, manufacture, and deliver the highest quality products, on time and on budget.

VanTran substation transformers are in service around the globe with many satisfied customers. Our specialty units can be found in a variety of industries including offshore oil production, temporary power needs, step-up applications, military installations, industrial manufacturing plants, hazardous environment locations, and countless other demanding applications.

Our team of highly experienced engineers works directly with our customers to design and develop substation transformers for applications on the cutting edge of technology. From challenging new applications to difficult retro-fits, VanTran can assist with all of your transformer needs.

Multi Tap Rental Duty Transformers



Retrofit Applications



## Quality Engineering ■

VANTRAN INDUSTRIES, INC. ■ 1-800-433-3346 ■ 254-772-9740 ■ Fax 254-772-0016 ■



## Tank, Bushings and Accessories

All VanTran transformers feature sealed tank construction with welded on covers and conform to NEMA and ANSI C57.12 standards where applicable.

Numerous bushing options are available including cover mounted, sidewall mounted, brought out in Full Air Terminal Chambers or through throat connections to switchgear.

In addition to standard NEMA specified accessories, all VanTran substation transformers come equipped with:

- Magnetic Liquid Level Gauge
- Dial Type Thermometer with Resettable Maximum Temperature Indicator
- Pressure/Vacuum Gauge
- Upper Filter Press Connection
- Oil Drain Valve with Sampler
- Schrader Valve for Nitrogen Blanket
- External Tap Changer

Hazardous Environment Installations



## Core and Coil

All VanTran three-phase transformers are of five-legged core construction using three coils and four iron core loops.

Cores are made with non-aging grain-oriented silicon steel. All cores are stress relief annealed in the size and shape required. As a result, core losses in VanTran transformers are the lowest obtainable.

Low-voltage windings are of strip copper or aluminum, laminated with thermally upgraded kraft paper. High short-circuit capability and longer life are inherent in a transformer with strip windings where axial forces are eliminated by perfect balance of magnetic centers. Lead pads and tap pads are 100% rag pressboard, also thermally upgraded. Start and finish coil leads are either mig welded copper or aluminum bus bar, or slit from the strip conductor, depending upon the current rating.

High-voltage windings are of round or rectangular magnet wire. Copper round and rectangular wire and aluminum round wire are film insulated with heavy form-var. Aluminum rectangular wire is insulated with double spiral-wrapped thermally upgraded kraft paper.

Cooling ducts are liberally spaced to minimize conductor gradient and reduce hottest spot temperatures.

# Quality Craftsmanship



sales@vantran.com ■ www.vantran.com ■ P.O. Box 20128 ■ Waco, Texas 76702-0128

# *Can we build a transformer for you, today?*™

Since 1963, VanTran Industries has manufactured liquid-filled transformers of the highest quality for the industrial, commercial, and utility markets.

From the beginning, we have focused on providing innovative engineering and design solutions for our customers' unique requirements. Our highly trained and experienced technical staff welcomes the most challenging of design specifications.

**We are  
recognized  
as the foremost  
independent  
specialty  
transformer  
manufacturer in  
America—with  
shipments world-  
wide.**

By maintaining our independence and emphasizing customer satisfaction, we have been able to adapt rapidly to the fast-changing distribution and small-power transformer market, while meeting ANSI and NEMA standards of manufacturing.

Regardless of the size or scope of your order, we'll get the job done right—on time, and cost effectively. We ensure your satisfaction at every stage of the process.

***We deliver the products you need—  
when you need them.***

Whether you have a unique design need or a request for standard transformers, we can fulfill your requirements quickly and efficiently. We are ready to fill your order—large or small—unique or standard.



## **An American Success Story**

**Independently owned and operated, VanTran Industries is a true American success story. We are American engineers and American craftsmen. With a history of success and a vision for the future, no one can serve you better than VanTran Industries.**

**Please call us today  
1-800-433-3346**



**INDUSTRIES, INC.**

**254-772-9740 ■ Fax 254-772-0016 ■ sales@vantran.com ■ www.vantran.com  
7711 Imperial Drive ■ P.O. Box 20128 ■ Waco, Texas 76702-0128**