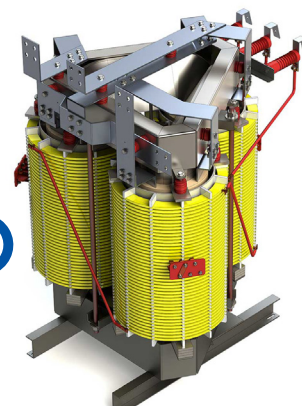
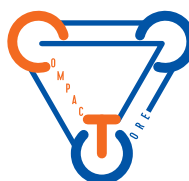


# Product Offering

## Compact Core

VPI (Vacuum Pressure Impregnated) - triangular core transformer. This is the economical choice for moderate to harsh environments. Can be used indoor (NEMA 1) or outdoor (NEMA 3R) applications. Typical usage in most commercial and industrial applications.

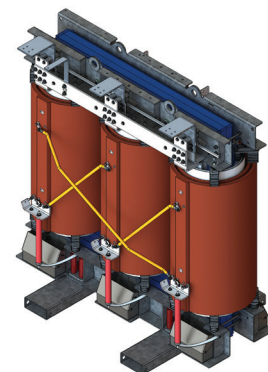
- Single vacuum-pressure cycle process = 2 Mil polyester resin coating
- 220° C Insulation System
- Product Scope
  - 112.5KVA – 3000KVA
  - Primary Voltage: 600V through 27kV
  - Primary BIL: Up to 95kV
  - Secondary Voltages: Up to 1000V
  - Secondary BIL: Up to 30kV
  - Temperature Rises: 80/100/115/150° C



## Cast Coil

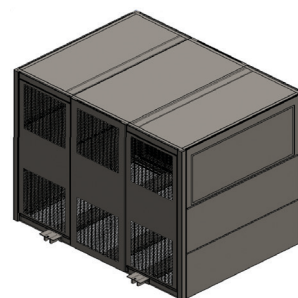
Encased in a concrete like block of epoxy, the cast coil transformer is the ultimate in winding protection for most demanding types of applications where higher operating voltages, power requirements, and dependability are critical.

- Reduced maintenance - hermetically sealed in molded epoxy
- 180° C Insulation System
- Product Scope
  - 112.5KVA – 25MVA
  - Primary Voltage: 600V through 36kV
  - Primary BIL: Up to 170kV
  - Secondary Voltages: Up to 5kV
  - Secondary BIL: Up to 60kV
  - Temperature Rises: 80/100/115° C



## Enclosures & Accessories

- NEMA 1
- NEMA 2
- NEMA 3R
  - Hinged panels
  - Full knockdown capability
  - Screened ventilation openings
  - Ground bus – full length copper
  - Standard ANSI 61 Paint (inquire for other options available)
- Fans for 133% FA kVA rating
- Temperature monitor / controller
- Future fan wiring and control
- Space Heaters w/ Thermostat
- Bus to ends for terminations
- Braided Flexible Connections



## Facility Information and Testing

Located in Tallmadge Ohio  
ISO 9001 2015 certified facility

Each transformer shall receive the following standard production tests in accordance with ANSI C57.12.90, Including: Resistance test, Polarity & phase relation test, Turns ratio test, No-load loss & exciting current test, Impedance and load-loss test, Applied potential test, and Induced potential test



# SGB-SMIT AT A GLANCE

Combined, more than

450 

## YEARS OF EXPERIENCE

Basis for know-how and  
for know-why

More than

3,500 

## EMPLOYEES

take care of  
your project

In more than

80 

## COUNTRIES

satisfied  
customers



## READY FOR YOUR MARKET

The SGB-SMIT Group manufactures transformers for applications worldwide. Sales and service centers on all continents ensure optimum processes.

Our products meet the requirements in accordance with the applicable national standards.



## PRODUCTS

- large power transformers
- medium power transformers
- large liquid-cooled distribution transformers
- liquid-cooled distribution transformers
- cast resin transformers
- shunt reactors
- series reactors
- phase shifters
- Lahmeyer-Compactstationen®

Transformers from 50 kVA up to incl. 1,200 MVA in the voltage range up to 765 kV.



## QUALITY MANAGEMENT

The SGB-SMIT Group is certified in accordance with:

- DIN ISO 9001
- DIN ISO 14001
- DIN ISO 50001
- OHSAS 18001



## TECHNOLOGIES

Technologies for conventional and  
renewable energy.