

LIQUID-IMMERSED DISTRIBUTION TRANSFORMERS



www.sgb-smit.com

SGB-SMIT AT A GLANCE

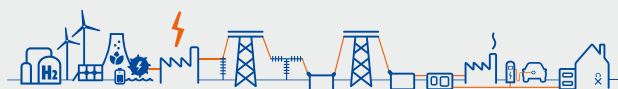
HISTORY



SITES



EMPLOYEES



TRANSFORMING TOGETHER THE FUTURE OF ENERGY

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The SGB-SMIT Group manufactures reliable and efficient transformers in line with demand and adapted to our customers and their requirements for applications worldwide.

Sales and service centers on all continents ensure optimum processes.

Our goal is to help our customers accelerate the transition from conventional energy sources to renewable alternatives and the expansion of electrification.

We secure with our products a safe and constant supply of energy.



PRODUCTS

- large power transformers
- medium power transformers
- large liquid-immersed distribution transformers
- liquid-immersed distribution transformers
- dry type transformers
 - cast resin transformers
 - VPI transformers
- shunt reactors
- series reactors
- phase shifters
- Lahmeyer-Compactstationen (compact substations)

Transformers from 30 kVA up to incl. 1,200 MVA in the voltage range up to 765 kV.



TECHNOLOGY

Technologies for conventional and renewable energy.



THE POWER OF PARTNERSHIP

SGB-Electroalfa (SGB-ALFA) is the newest member of the SGB-SMIT Group, established in Botoșani, Romania. It is a Joint Venture between SGB-SMIT Group and Electroalfa International, located in Botoșani, Romania. The factory is designed to serve European customers with best-in-class products.

Our mission is to deliver high-quality distribution transformers that meet the highest international standards, while contributing to a sustainable energy future.

As part of the global SGB-SMIT network, we combine over 100 years of transformer expertise with local innovation and dedication. With the factory in Romania, we are strengthening our presence in Europe and ensuring reliable solutions for utilities, industry, and renewable energy projects.

Together with our partners, we are committed to exceeding customer expectations, driving technological progress, and building a safer, greener tomorrow.



STATE-OF-THE-ART MANUFACTURING



SGB-ALFA's factory in Botoșani represents the perfect blend of local expertise and global standards. Located in the heart of Romania, next to Electroalfa, our site benefits from strong regional roots while being fully integrated into the worldwide SGB-SMIT Group.

Our factory covers a production area of 7,250 m². The facility focuses on standardized distribution transformers with a harmonized product design identical to Sächsisch-Bayerische Starkstrom-Gerätebau GmbH (SBG), Neumark.

- Range: 50 kVA – 630 kVA
- Technology: Liquid-immersed, hermetically sealed, foil winding (LV)

With strong local roots and global expertise, SGB-ALFA Botoșani is your trusted partner for reliable distribution transformers. By combining Romanian production precision with the international standards of the SGB-SMIT Group, we deliver solutions that strengthen energy networks across Europe. Every unit reflects our commitment to quality, safety, and long-term performance, ensuring that customers can rely on us to power the future with confidence.

THE “TOP 4” PROCESS

1 THE CORE



Active parts are assembled short-circuit proof and undergo vacuum drying for maximum impregnation.

2 THE WINDINGS



LV winding uses foil technology for high short-circuit resistance. HV winding uses enameled round wire.

3 ASSEMBLY & DRYING



We use high-grade core material with step-lap design to reduce no-load losses and noise.

4 TANK



Hermetically sealed corrugated tank design.



LOCATION

SGB-ALFA's factory, located in Botoșani, is next to an existing factory of Electroalfa. Botoșani is about 50 km away from Suceava airport and about 450 km from the capital Bucharest.



TEAM

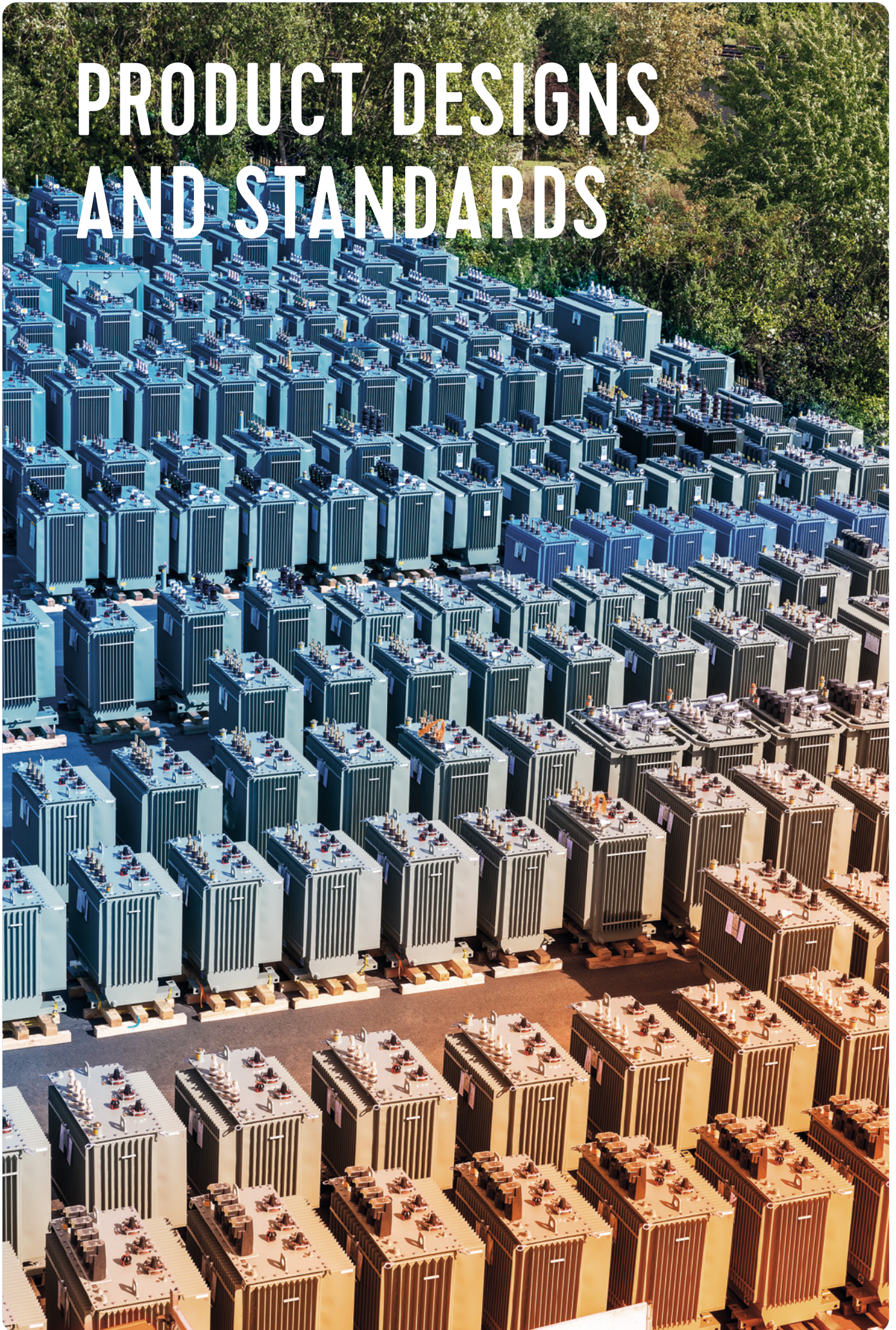
A team of 100 employees ensures precision in assembly and testing, delivering reliable transformers every day.



CONNECTION

Integrated into the SGB-SMIT Group, the Botoșani factory supplies standardized distribution transformers across Europe, certified ISO 9001 by TÜV SÜD.

PRODUCT DESIGNS AND STANDARDS



RELIABLE SOLUTIONS FOR UTILITIES, INDUSTRY AND RENEWABLE ENERGY.

At our Botoșani factory, SGB-ALFA manufactures standardized distribution transformers designed to meet IEC standards and Tier 2 loss requirements.

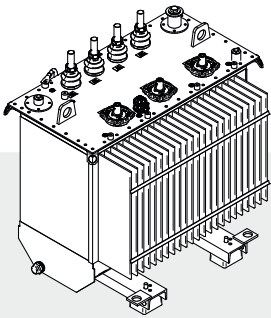
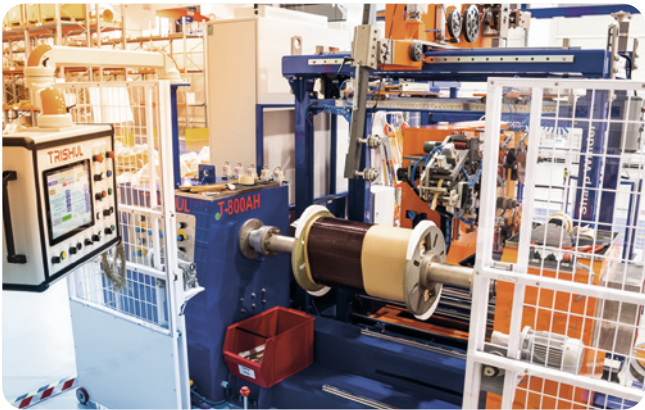
Our portfolio covers ratings from 50 kVA up to 630 kVA (with maximum capability of 1,000 kVA/30 kV), ensuring reliable performance for local grids, industrial applications, and renewable energy integration. Each transformer is designed with high-grade materials and harmonized processes, ensuring durability and efficiency.

Base models:

- Voltage: 20.000 V / 400 V
- Tappings: ± 2 x 2.5%
- Cooling: ONAN
- Regulation: Acc. To Regulation (EU) Nr. 548/2014 & 2019/1783: Tier 2.

Features:

- Bushings: HV Plug-in 24/250-A EN 50180. LV DIN EN 50386.
- Tank: Corrugated tank wall container.
- Transport: Lashing eyes and towing devices included.



TECHNICAL PARAMETERS

DOTML 160H 20 / 0.4

160 kVA / 20 kV
Dyn 5 connection
Weight: 1000 kg
Insulating fluid: 190 kg
L x W x H in mm: 1000 x 710 x 1050
Noise suppressors
Thermometer pockets
Off-circuit tap changer

DOTML 250H 20 / 0.4

250 kVA / 20 kV
Dyn 5 connection
Weight: 1190 kg
Insulating fluid: 200 kg
L x W x H in mm: 1020 x 750 x 1200
Reliable performance
Haulage lugs
IEC standard bushings

DOTML 400H 20 / 0.4

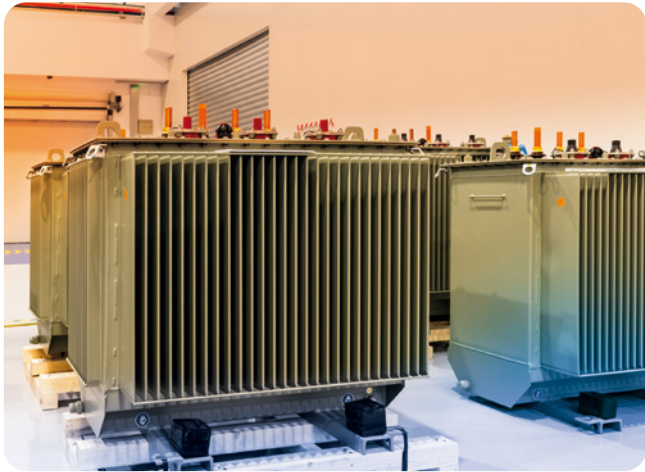
400 kVA / 20 kV
Dyn 5 connection
Weight: 1520 kg
Insulating fluid: 240 kg
L x W x H in mm: 1210 x 800 x 1250
Robust construction
Tilt protection
Low losses

DOTML 630H 20 / 0.4

630 kVA / 20 kV
Dyn 5 connection
Total Weight: 2040 kg
Insulating fluid: 320 kg
L x W x H in mm: 1300 x 820 x 1340
Corrosion protection up to C5h
Low maintenance

QUALITY & CERTIFICATION





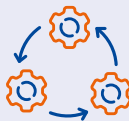
ROUTINE TESTS

Routine test acc. to DIN EN 60076-1



TYPE TESTS AVAILABLE

- Determination of sound level (IEC 60076-10)
- Lightning impulse test (LI and LIC, IEC 60076-3)
- Measurement of no-load loss and current at 90 % and 110 % of rated voltage
- Temperature Rise test (IEC 60076-2)
- Measurement of partial discharge (IEC 60076-3)



OPTIONS POSSIBLE

- Thermometer pocket DIN EN 50216-4
- Noise & vibration damper
- Protection & monitoring equipment
- Customized Bushings Options HV & LV



CERTIFICATES

- ISO 9001
- Test report short circuit



BUILT FOR RELIABILITY, ENGINEERED FOR EFFICIENCY





COMPACT, LOW-LOSS, TIER 2 DESIGN

High-grade magnetic core and foil LV windings



RELIABLE VOLTAGE CONTROL

Enameled HV windings and off-circuit tap changer



SILENT AND SAFE OPERATION

Vibration suppressors and tilt protection



EASY MAINTENANCE ACCESS

Thermometer pocket and combined protection devices

At SGB-ALFA Botoșani, every distribution transformer is manufactured to IEC standards and certified ISO 9001 by TÜV SÜD.

Our production process combines global know-how with local precision, ensuring consistent quality, silent operation, and long service life.



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