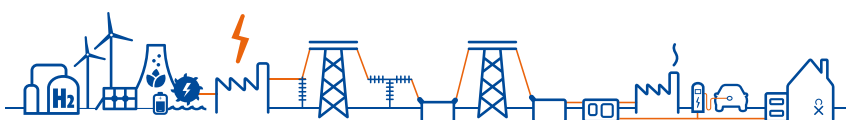


LAHMEYER COMPACT SUBSTATIONS



LAHMEYER
Compactstation

SGB-SMIT AT A GLANCE

1913



HISTORY

... of steadily growing expertise

3.300



EMPLOYEES

... are the key to our success

14



SITES

We are one of the world's leading manufacturers of distribution and power transformers



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-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.



QUALITY MANAGEMENT

The SGB-SMIT Group is certified in accordance with:

- DIN ISO 9001
- DIN ISO 14001
- DIN ISO 45001



TECHNOLOGIES

Technologies for conventional and renewable energy.

FLEXIBLE, EFFICIENT AND SECURE

SBG Neumark – market leader for light-weight designed transformer-substations – is the reliable and flexible partner for the fast and inexpensive delivery of individual, safe and high-quality complete solutions..



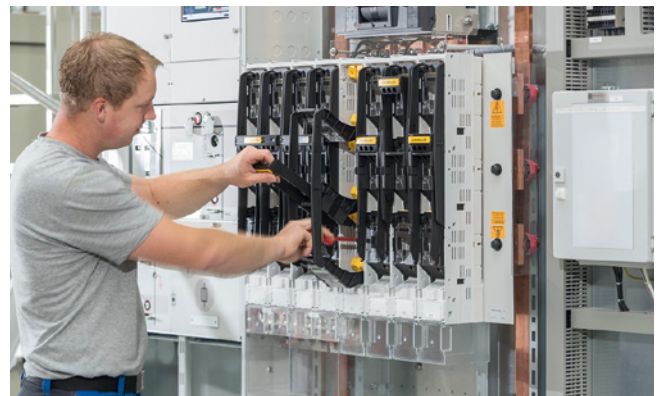
VOLTAGE RANGE UP TO 36 KV POWER RANGE UP TO 4000 KVA AND HIGHER

Features of Lahmeyer Compact Substations:

- ready-to-connect
- robustness
- compact design
- highest safety
- easy transportation
- easy installation
- no need for maintenance
- eco-friendliness

TRANSFORMER & SUBSTATION: BOTH COMPETENCES FROM ONE SOURCE

- experience from over 60 years
- dedicated to our customers
- future-oriented enhancements
- high qualified employees
- continuously inspections
- highest standards of quality and eco-friendliness
 - certification ISO 9001
 - certification ISO 14001
 - certification ISO 45001
 - certification ISO 50001
- shortest delivery times
- excellent cost-performance ratio



MODULAR SYSTEM, DIFFERENT SIZES



- individual adaptable compartment configuration
- double transformer installation possible
- housing-parts separate exchangeable (e.g. for additional rooms), without loss of certificated type tests
- as small as needed (no blank volume)
- easy access
- easy upgrading (transformer change, mounting of a second transformer)

Use of well-known switchgear manufacturer

Medium-voltage:

- Siemens
 - ABB
 - Schneider Electric
 - Ormazabal
 - Driescher
- and more

Low-voltage:

- ABB
 - Schneider Electric
 - Jean Müller
 - EFEN
 - Siemens
- and more

Substation type	Footprint (length x width)	Maximum rated power	Maximum weight*
LCS-E (max. 24 kV)	2540 x 1180 mm	630 kVA	3200 kg
NDV400 (max. 24 kV)	3010 x 1710 mm	630 kVA (800 kVA)	4500 kg
NDV1000 (max. 24 kV)	2811 x 1878 mm	1000 kVA	6600 kg
NDV1200 (max. 24 kV)	3000 x 2100 mm	1250 kVA	6000 kg
NDV1600 (max. 24 kV)	3000 x 2300 mm	1600 kVA	6500 kg
NDV2500 (max. 36 kV)	3000 x 2300 mm	2000 kVA	8500 kg
NDV2600 (max. 36 kV)	3284 x 2300 mm	2500 kVA (2x 1000 kVA)	8500 kg
WPS2500 (max. 36 kV)	4500 x 2500 mm	+/- 4000 kVA	14000 kg

* weight with max. transformer (see rated power), less weight with smaller transformer



WORLDWIDE OPERATION SINCE 1963

Lahmeyer compact substations from SBG guarantee functional reliability in all climate zones of the world.



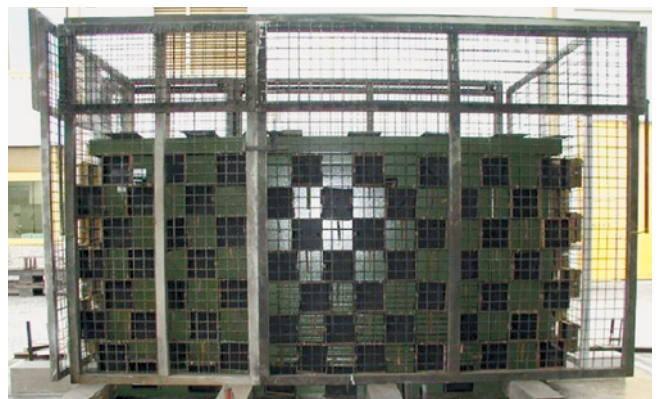
LAHMEYER COMPACT SUBSTATIONS: HIGHEST SAFETY AND RELIABILITY

- factory-assembled and single-tested units
- projected safety according to IEC 62271-202
- long lifetime
- single-tested cable-connections
- tested protection against arcing due to an internal fault (IAC 20kA, 1s)
- EMC-safety (<math>< 100 \mu\text{T}</math>)
- protection against contact (IP-protection)
- safe closing
- protection against intrusion of ground and surface water



SMALL - LIGHTWEIGHT - UNREMARKABLE

Due to smallest dimensions, SBG compact substations fit harmonic in townscape and environment!



INDIVIDUAL REQUIREMENTS



REGULATED TRANSFORMERS

- transformers with n9-step regulation range
- change-over under load
- remote or self control
- control setting by customer specifications
- applicable in all substation types

INDIVIDUAL DESIGN

- individual colouring (RAL-colour system) and graffiti-protection coating possible
- enclosure made of galvanised steel sheet
- 100% poreless powder coated
- high corrosion protection
- resists heat, coldness, UV-radiation, salt and aggressive environments [e.g. in industrial areas]
- environmental harmless and non-inflammable materials

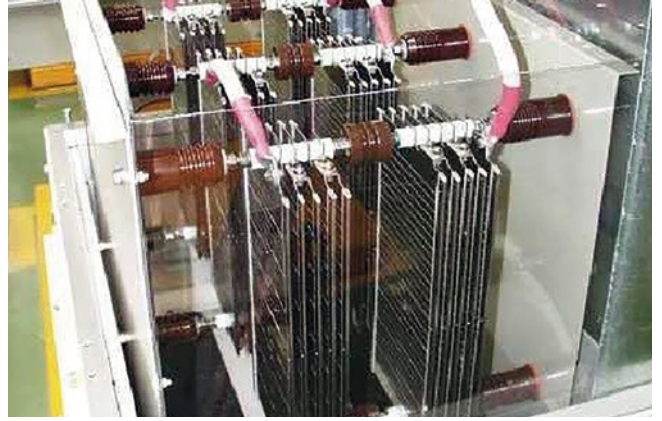


DELIVERY & INSTALLATION

- transport and unloading by truck with crane
- water protected cable inlets without gaskets
- easy foundation works



SERVICES AND SPECIAL SOLUTIONS



DIVERSE SERVICES AND SPECIAL SOLUTIONS

- dry-type transformers (e.g. for water protection areas)
- mobile substations/site-supply-substation (also with vats or on trailer)
- rental substations
- installation of remote monitoring and remote control technology
- substations for traction current
- on-site conversions (e.g. to increase power)
- train climate-conditioning systems
- systems for reactive power filtering
- MV-switchgear housings
- systems for (temporary) low-resistance neutral earthing (NOSPE / KNOSPE)



E-MOBILITY

- supply station with rapid charging systems 350 kW
- ideally suited for use at service areas and truck stops
- planning and production according to individual customer specifications
- combined solutions with feed-in possible
- Europe-wide use



INFORMATION & ADVICE:

Maik Schwarzer

Sales Team Leader Compact Substations

Ohmstraße 1 • 08496 Neumark • Germany


Phone +49 37600 83253

Fax +49 37600 83250

Mobile +49 152 388 467 12

E-Mail maik.schwarzer@sgb-smit.group

CONTACT

 **STARKSTROM-GERÄTEBAU GMBH**
Regensburg • Germany
Phone +49 941 7841-0

 **SÄCHSISCH-BAYERISCHE
STARKSTROM-GERÄTEBAU GMBH**
Neumark • Germany
Phone +49 37600 83-0

 **ROYAL SMIT TRANSFORMERS B.V.**
Nijmegen • The Netherlands
Phone +31 24 3568-911

 **SMIT TRANSFORMER SERVICE**
Nijmegen • The Netherlands
Phone +31 24 3568-626

 **RETRASIB S.A.**
Sibiu • Romania
Phone +40 269 253-269

 **SGB CZECH TRAF0 S.R.O.**
Olomouc • Czech Republic
Phone +420 605 164860

 **BCV TECHNOLOGIES S.A.S.**
Fontenay-le-Comte • France
Phone +33 251 532200

 **SGB-SMIT SALES INC.**
Summerville, SC • USA
Phone +1 843 871-3434


 **SGB-USA INC.**
Louisville, OH • USA
Phone +1 330 871-2444

 **OTC SERVICES INC.**
Louisville, OH • USA
Phone +1 330 871-2444

 **SGB MY SDN. BHD.**
Nilai • Malaysia
Phone +60 6 799 4014

 **SGB TRANSFORMERS INDIA PVT. LTD.**
Chennai • India
Phone +91 44 45536147

 **SGB CHINA**
Changzhou • P.R. China
Phone +86 519 82999000

 **SGB-SMIT POWER MATLA (PTY) LTD.**
Pretoria West • South Africa
Phone +27 12 318 9911
Cape Town • South Africa
Phone +27 21 505 3000