



Transformers and toolbuilding



Transformers



Chokes



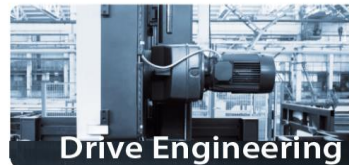
Inductive Components



Control Systems



Medical devices



Drive Engineering



Railway Technology



Power Electronics



Renewable Energy



Shipping



Light Engineering



Our Product Divisions – wide range from small transformers, high frequency solutions or water-cooled inductors up to medical devices



Transformers

Transformers from 1 VA to 1600 kVA. It's worth to take a look on our product range!



Chokes

From audio-inductors until big railway-chokes. The strongest current ripple will weaken!



Inductive component

Wound products and inductive components are used as transformer in the field of NF und HF. The knowledge is in the detail!



Control systems

From a small PVB to the final product. Components especially to your needs, in individual and serial production.



Medical devices

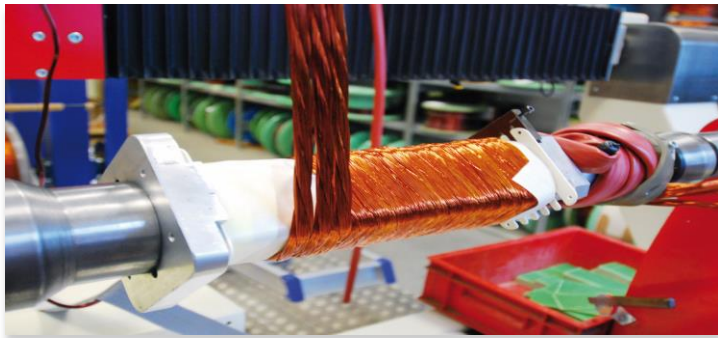
The challenge of the combination of standardization, safety, customer's specifications and patient!



Flexibility & Know-how for transformers and chokes



- Own UL-insulationsystem (File E181051) for transformers and chokes in insulation class B 130° C and F 155° C
- Systems for standard-production and bigger transformers up to 800 mm diameter and 1200 mm winding length
- Coil winding machine for coils and chokes with integrated cold pressure welding equipment
- Semiautomatic vacuum-impregnation-equipment polyester resins of the insulation class H
- Fully automatic vacuum-sealing-machine for 2 polyurethan resin of the insulation classes B and F
- **special water-cooling system for high power applications**





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Admissions & Certifications



ISO 9001:2008



EX-Admission
for the encapsulation (e.g. in
the production of
EX - electric and shaded-
pole motors)



Electrotechnical
medical device
licensed and registered
manufacturer



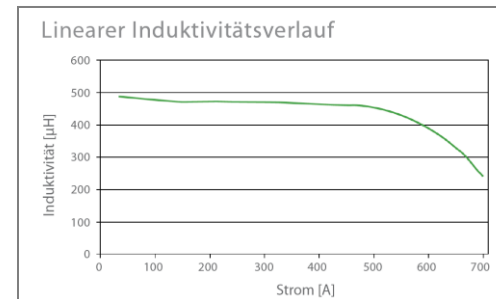
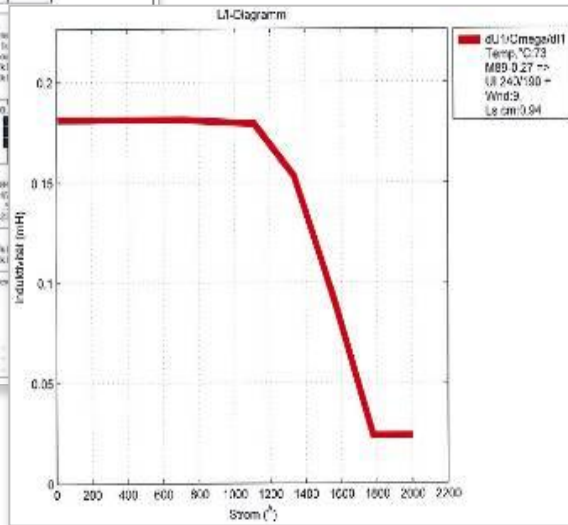
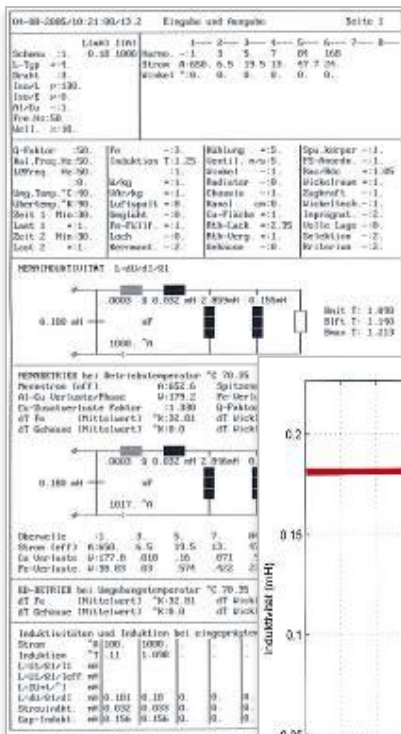
Own UL-Insulationsystem (File E181051)



Software

- Computer based calculation system – RALE for the dimensioning of transformers and chokes
- Calculation of standard and customer-specific parameters e.g. harmonic current, pure inductance, temperature, cooling, switching frequency, power loss

- Modern CAD-protected construction department
SOLID WORKS: mechanical construction
WS-CAD: electrical circuit diagram
- ERP-System eEvolution
incl. access control, ERP / PPS
and factory data capture





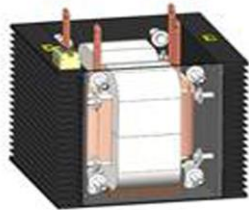
transformers/inductors up to 1000 kVA

Standard Covers:

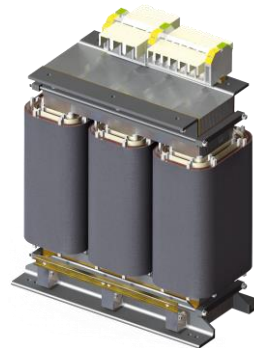
- Control Transformers up to 1600 KVA
- Safety Transformers
- PCB Connecting Type Transformers
- Ultra flat PDB Type Transformers
- Autotransformers up to 2000 KVA
- Disconnecting Transformers up to 800 KVA



DC Power Supply
(for machine tooling)



400 Hz Transformer
(power supply for aircraft's)



Isolating Transformer 600 kVA
(copper or aluminium winding)

Customer's Specifications:

- 400 Hz Transformers, High frequency transformer for example in aviation and military applications
- Welding Transformers
- Water-cooled Transformers
direct- or floating cooling (potential free cooling –system)
- MF- chokes and transformers



Welding
Transformer
60 kVA



Aluminium Transformers *- efficient alternative to the standard copper transformer*

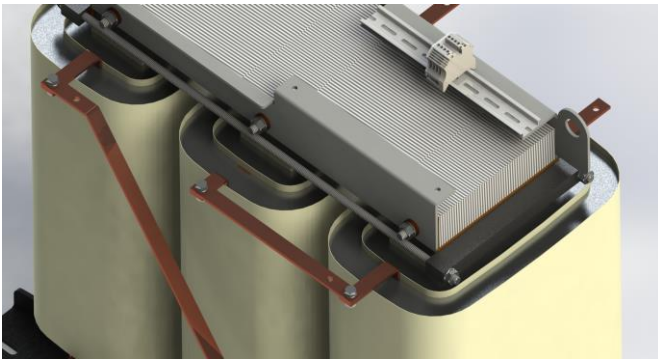
There are no disadvantages compare to the copper transformer



60 KVA up tp 1600KVA: aluminium foil winding

advantages:

- Higher efficiency grade
- Cost efficiency
- Weight: fewer weight compared to standard transformers





Inductors/reactors /filters up to 2500 A

CE **UL** **US**
Kategorie: OBJY2
File-Nr.: E181051

A new choke concept for **power electric**, **power quality** and the **intelligent drive engineering** for frequency changer

<http://www.schmidbauer.net/en/products/chokes/green-core-inductive-systems.html>



- Commutating choke, Step-up choke
- Filter choke, Sine-filter-chokes, Output choke, motor filter
- Power filter, Filter-circuit-choke, smoothing choke
- **4-Leg choke** as a 3 AC choke with an additional leg for the common mode part
- Special construction, e.g. **water-cooled version**, with cooling attachment and temperature detector
- Advice and conforming to standards assistance of the inductivity for the UL-Admission of the frequency changer system

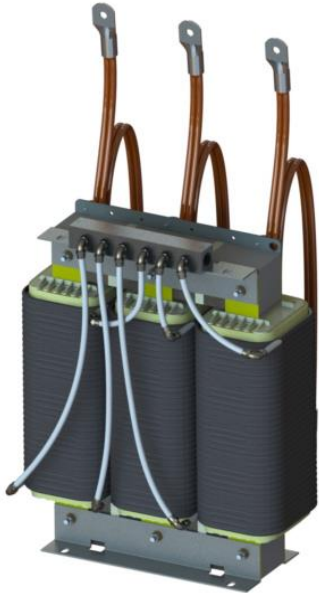




Water-cooled chokes / filters



The biggest advantage of Schmidbauer's water-cooling system :
More than 90% of the arised heatness will be transferred in the cooling medium



3AC Filterdrossel 350 KW
potential free cooling

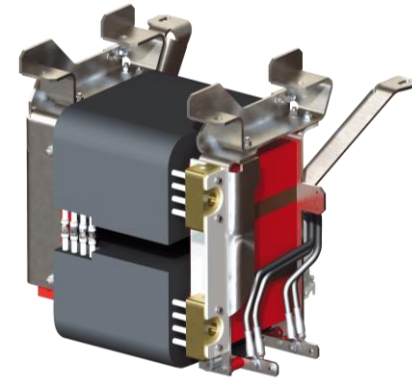


Cooling system which is electrical free of potential

The costs are comparable with a air-cooled choke

advantages

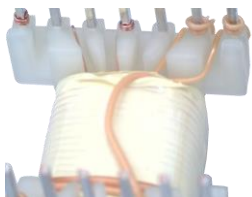
- Small size regarding the advantages of the water cooling,
- For systems without ventilator
- Different cooling liquids are possible
- Long term experience regarding water-cooling applications



DC filter choke
For railway application



Inductive Components / Wound Products



- Development and manufacturing for transformers, wound products and HF-components for power electronics
- NF-transformer, MF or HF-transformer, power transformers for switched-mode power supply
- Current transformer, ignition transformer, LED-transformer
- Computer-controlled testing automats for quality check
- Transformer and audio-frequency capacitors for audio application
- 4-fold, 2-fold as well as semiautomatic winding machine for serial production





Inductive Components for e-Mobility

Development of winding systems for **contactless electrical power supply** for stationary and dynamic system in fields of **Smart Grid and E-Drive**.

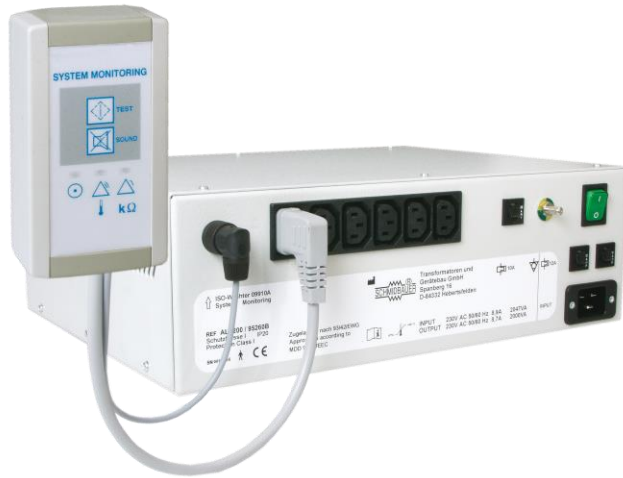


Coil arrangement
Contactless coverage
(without core)

- Development and manufacturing of high-frequency wound products and inductive components for inductive coupling
- Main- and leakage inductance depending on the coupling factor
- Customer-specific configuration of the particular air gap
- Efficient, high power efficiency, contactless energy transfer



Medical Electric Power Supply



**For use as leakage capacitor limiter
in medically used rooms**

Optional with insulation monitoring

- Electronic equipment for applications on patients are relating to the admissible leakage current and the insulation resistance bound to defined constraints
- ALN/ALE-disconnecting-transformer offer extra protection to EN60601
- Leakage loss limiter serve to reduce the leakage current
- MDD 93/42/EWG conform and designed for Intensiv- and OP-areas





Instrumentation Construction



Switch-Box for
axis control of robots

- Development and production of complete systems, especially for the electrotechnical range of application
- Processing and construction in cooperation with customers and testing institutes
- Processing and production of SPS-controlled power sections
- Overview of used basic standards: transformers, chokes, electric supply and assemblies
VDE 0570, EN 61558, EN60076, VDE 0805, EN 60950, VDE 0750 EN 60601, UL 506, UL 1446, UL 94
- We produce customer-specific systems according to VDE – appliance standard group 5, 7 and 8



Current supply
for UMTS-radio-stations



Transformers and toolbuilding



The Schmidbauer Company Alliance
Our common objective: satisfied CUSTOMERS worldwide



Transformatoren und Gerätebau



Spanberg 17
D- 84332 Hebertsfelden

- Blanking
- Laser cutting
- Edge bending
- Powder coating
- Mounting the assembly

Spanberg 16
D- 84332 Hebertsfelden

- **Transformers to 1600 kVA**
- **Chokes / motor filters**
- **Inductive wound products**
- **Control systems**
- **Medical devices**

Spanberg 16
D- 84332 Hebertsfelden

- Electronic solutions
- SMD/THT – power electronics
- Power supply unit
- Electronic OEM-products

Popluzni
CZ - 33601 Blovice

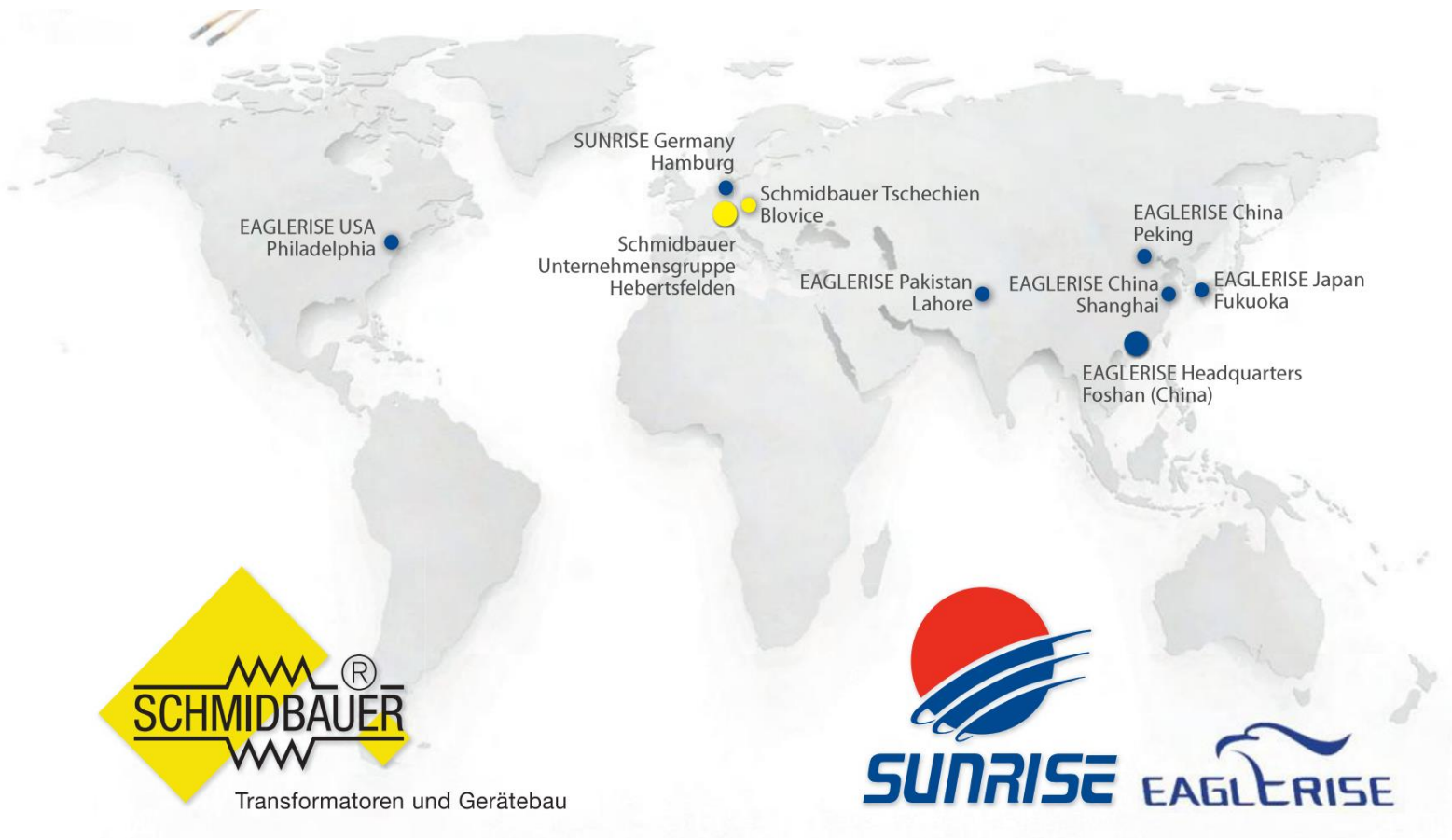
- Transformers to 10 kVA
- Chokes
- Inductive wound products



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Our Joint Venture with the company Eaglerise



Transformatoren und Gerätebau





Transformers and toolbuilding



Schmidbauer from the top





...and what can we do for **you**?

We would be pleased to advice & support **you**!

Schmidbauer Transformatoren und Gerätebau GmbH

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