



THE SUITABLE VOLTAGE FOR YOUR REQUIREMENTS.

INDIVIDUALLY WOUND TRANSFORMERS AND CHOKES
FROM 1 TO 10,000 KVA

SUSTAINABLY CONVINCING

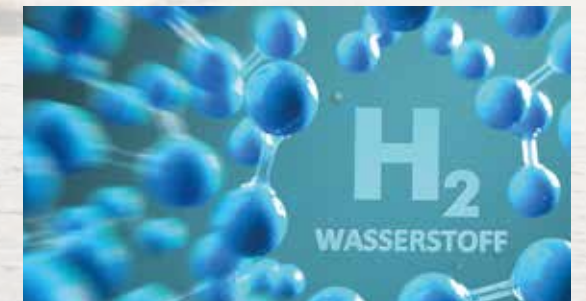
TRANSFORMERS AND CHOKES FOR A WIDE RANGE OF APPLICATIONS

Our transformers and chokes are in high demand in many current and future key technologies. Stable voltages and safe currents play a decisive role in renewable energies, electromobility and the production of green hydrogen.

Our transformers and chokes are tailor-made for the respective requirement and individually produced. They meet the highest quality standards, and are particularly welcome in challenging areas of application.

WHERE J. SCHNEIDER TRANSFORMERS ARE USED:

- Renewable energies
- Drive technology
- Plant construction
- Charging technology for automobiles or rail vehicles
- Mechanical engineering
- Power quality systems
- Electrolysis for the production of hydrogen
- and much more





ABSOLUTE SPECIALISTS

INDIVIDUALLY DEVELOPED TRANSFORMERS AND CHOKES FOR OVER 50 YEARS

J. Schneider Elektrotechnik exclusively builds transformers and chokes for individual customers. And it can only do this because it has more than 50 years of experience in the challenging field of electrical engineering. There are 12 specialists who only deal with the electrical and mechanical design of customer-specific devices. Our technicians and engineers calculate the design exactly to your requirements, and construct the corresponding digital 3D models.

The combination of their wealth of experience and state-of-the-art expertise means that J. Schneider's engineers are optimally able to implement your specific requirements. Hardly any other company in Germany or Europe is able to offer its customers such a comprehensive range of expertise for tailor-made transformers and chokes from a single source.

So as a customer, you can be sure that you will always receive the best solution for your application.

INDIVIDUALLY DEVELOPED AND MADE FOR YOU

CUSTOM-FIT WINDING PRODUCTS IN A HUGE PERFORMANCE RANGE FROM 1 KVA TO 10 MVA: THESE ARE THE SPECIALITIES OF J. SCHNEIDER ELEKTROTECHNIK

Whether transformer, transductor, choke or voltage stabilizer; air, water or oil-insulated; individual winding products or complex transformer systems, J. Schneider Elektrotechnik has made a name for itself in all areas, and is widely regarded as a specialist in sophisticated key technologies such as drive technology, traffic technology, renewable energies and electromobility.

J. Schneider transformers ensure safe voltage in large-scale projects and photovoltaic systems. We are just as competent with large quantities of small transformers as we are with individual special solutions up to 10 MVA and in a voltage range of up to 36 kV.

We provide the exact voltage your applications require.

LOTS OF CUSTOMER-SPECIFIC SOLUTIONS

- 90-95 percent of J. Schneider's transformers and chokes are developed and produced to specific customer requirements
- J. Schneider's engineers develop the optimum solutions based on customer information and in-depth consultations
- The right choice of the right materials is just as important as the technical design
- We can provide you with single transformers or complete systems and install them on your premises, as you require and desire

WIDE RANGE OF DESIGNS AND TYPES

- Transformer and chokes
- Air and oil insulated
- With natural or forced air cooling or liquid-insulated
- In the low and medium voltage range
- For indoor or outdoor installation
- For a wide range of climatic conditions

EXTRAORDINARY RANGE OF SERVICES

- Winding goods to 10 MVA
- Voltage range
 - Mains side to voltage series 36 kV
 - Output side 10 V to 80 kV
- Current range 1 A to 40 kA
- Frequency range 0–10 kHz

You will find further information here



WITH LOTS OF KNOW-HOW AND EXPERIENCE

The technical variety that we offer is based on our expertise, decades of experience, and the continuous further development of our production facilities.



BUILDING REGULATIONS



STATE-OF-THE-ART MATERIALS



COOLING TYPES



IMPREGNATION



FLEXIBLE RATINGS AND CONSTRUCTION TYPES FOR GERMANY AND EUROPE

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THE TYPE OF
ELECTRICITY
AND VOLTAGE
ARE IMPORTANT TO
OUR WINDINGS GOODS

ALL PERFECTLY WOUND UP

WELL EQUIPPED FOR DRY-TYPE AND OIL TRANSFORMERS

Along with the experience and specialist expertise, it is important that the technology is also right for producing Europe's leading tailor-made winding products and transformers.

J. Schneider offers unique possibilities for this. Not only do we have all the process steps, from the idea to the finished product, under one roof, but we also wind and produce all the devices ourselves at our factory in Offenburg! This allows us to implement your individual wishes and requirements flexibly and with absolute precision. At the same time, it means we have the best control over everything so we can offer you unique J. Schneider quality at all times.



EXTENSIVE CAPACITIES

We have more than 20 winding systems on over 5,000 square meters of production areas for the most diverse winding designs.

We can produce any kind of windings, from large quantities of round or flat wires to film windings with coil lengths of up to 1,400 mm.

Our modern foil winding machines can create spools with up to three parallel windings in a single process. For the production of directly liquid-cooled windings, the machine park includes winding machines that are specially adapted to processing pipes.



MADE WITH THE GREATEST CARE

FIRST-CLASS RESULTS ACHIEVED WITH EXPERTISE AND SPECIAL EQUIPMENT

Due to the tremendous bandwidth, the assembly of transformers and chokes is a challenge both to the equipment and to the staff's expertise.

Both are taken into account with production groups that are tailored to the products and first-class technical equipment.

The coils are married to the magnetic cores and assembled into active parts with the greatest possible care.





IMPREGNATION UNDER VACUUM

State-of-the-art impregnation systems are available for the perfect impregnation of our air-insulated transformers and chokes. Depending on the application area of the transformers and chokes, either a vacuum impregnation or a vacuum pressure impregnation process is used.

We achieve the optimum penetration of the impregnating resin with our VI and VPI systems, which creates the basis for the best properties in heat dissipation, mechanical strength and electrical insulation.

Thanks to the generous systems, we can impregnate coils of up to 2,000 mm in length or even complete transformers or chokes. At the end, our batch and continuous polymerization furnaces provide the high-quality curing of the impregnation resin. Laying the foundations for a long service life of the transformers and chokes.



OPTIMALLY DRIED

ACTIVE PART DRYING OF TRANSFORMERS AND CHOKES

The optimum drying of the active parts of liquid-insulated transformers and chokes is the basis for the safe, long-lasting operation of the products. J. Schneider has two vacuum drying chambers that are used for removing moisture from the winding insulation.

Both are fitted with state-of-the-art low frequency systems. One of the vacuum chambers also has a circulating air heating system.



FILLING THE TRANSFORMERS AND CHOKES WITH INSULATING LIQUID

The transformers are filled under pressure with insulating liquid in the vacuum chamber. The upstream tank farm allows us to choose from various insulating liquids. The insulating liquid is dried, degassed and, if necessary, heated by an oil treatment plant during the filling process. These are all basic prerequisites for ensuring the high quality and long service life of the transformers and chokes.

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EVERY SINGLE DEVICE:
TESTED UNDER THE
TOUGHEST CONDITIONS.



SAFELY TESTED

AND CERTIFIED ON REQUEST

In our 6 test bays, our transformers are extensively tested with, amongst other things, lightning surge voltage tests up to 400 kV and partial discharge tests (TE tests).

Our systems and components comply with all the industry-specific standards, as required. The necessary tests and certificates are carried out and created as required by the customer.

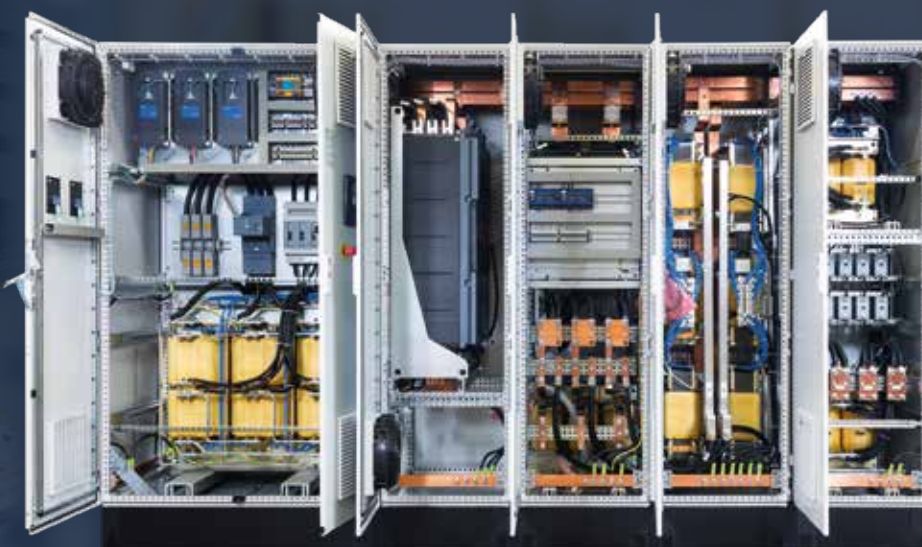
The quality tests also include DGA analyses, which can determine the condition of the transformers to IEC 60599 with absolute precision.

CONVINCING SYSTEM SOLUTIONS

HOLISTICALLY IMPLEMENTED SYSTEM SOLUTIONS

Your challenging applications need innovative solutions. That is why we think holistically, and develop convincing system solutions for you that will master your challenges with flying colors. Our comprehensive expertise and decades of experience, especially in the field of transformer construction, provide impulses that are even beyond the known solutions.

Our full service ranges from the individual implementation of your requirements in individual systems and production to the delivery and installation of complex system solutions.





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