

KUVAG



ENERGY



MOBILITY



INDUSTRY

**LEADING IN
INSULATION
TECHNOLOGY**

ABOUT KUVAG



KUVAG is a technology leader focusing on custom-designed electrical insulation products. KUVAG concentrates on core competence areas transmission, distribution, and traffic engineering as well as industrial applications. Our products are manufactured for the use in a wide range of industries and applications like switchgear, transmission and distribution networks, cable accessories, transformers, high-speed trains, railway infrastructure, or medical equipment. As an independent group headquartered in Austria, four production sites in Europe and Asia, and a worldwide presence KUVAG is always close to our customers. In our ongoing drive for innovative products and solutions we rely on the expertise, the creativity, and the commitment of our 400 staff members.

Based on more than 40 years of experience and development, we are in a position today to offer an extensive product range and technology spectrum which is unique in the industry. Our strong engineering background and the dedication of our experts has made us the preferred partner in implementing complex and challenging projects for our customers. KUVAG strongly believes in reliability, quality orientation, efficiency, and solution-orientation as important virtues and integral part of our value proposition. Successful long-term and trust-based partnerships and intense cooperation with our customers create the basis for continued strengthening of our brand in the future.

KUVAG ENERGY



HIGH VOLTAGE

KUVATEC EPOXY-CAST INSULATORS

For almost 25 years, we have manufactured products for high-voltage applications in cable connectivity and in high-voltage switchgear from 72 to 800kV, which meet the highest expectations of our customers. Our proprietary vacuum casting technology, state-of-the-art production process, usage of well-tested and controlled raw material as well as rigorous testing standards ensure outstanding quality and high performance over the full equipment lifetime. Based on our experience, we have been chosen as strategic development partner by various leading players in the industry.



Cable termination 300kV



Support insulator 170kV



Multi-pin bushing plate

KUVATEC INSULATED SWITCH RODS FOR HV SWITCHGEAR

KUVAG has high expertise in producing high performance switching and insulating components to operate high-voltage electrical equipment such as for instance AIS or GIS. These products are designed and manufactured in our German plant based on long experience, and by the use of our unique filament winding, vacuum impregnation and bonding processes. To meet even the highest electrical and mechanical requirements, only proven aramide- and glass-fibers as well as epoxy resins from leading suppliers are used. A range of customized surface treatments like polyester liners, machining, or varnish to protect against SF₆ decomposition products or other chemicals are available.



Glass fiber switch rod 145kV Nr. 4287



Aramid / polyester fiber switch rod 245kV



Aramid fiber switch rod 123kV Nr. 4284



Aramid switch rod 145kV

KUVACOMP COMPOSITE TUBES FOR VARIOUS APPLICATIONS

KUVAG designs and manufactures tubes for the high-voltage industry by processing pre-impregnated fibers or impregnating glass-fibers in filament winding technology. Winding angles of fibers and layer structure of our tubes are varied to achieve desired features like resistance to high pressure or high bending strength. We have hundreds of mandrels with diameters up to 2.500 mm available. Very often machining with narrow tolerances and surface treatments of the tubes complete our offer. Especially manufacturers of transformers and high-voltage testing equipment value the outstanding quality of our products.



Composite tube for HV test equipment



Tubes for silicone hollow core insulators



Machined tube for various applications

SIMOTEC COMPOSITE HOLLOW CORE INSULATORS

After taking over SIMOTEC business from Lapp Insulators in 2018, KUVAG has established itself as a leading player in the manufacture and supply of silicone rubber composite insulators for indoor and outdoor applications from 72kV to 800kV. A wide range of tube mandrels, sophisticated layer-structures of our FRP-tubes, and flexible shed designs allow our insulators made in Germany to be customized to virtually any requirement. The insulators are designed according to the specifications outlined in IEC61462:2008 and IEC 62217 as well as other applicable industry standards.



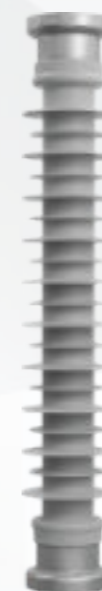
Composite insulator 145kV



Composite insulator 300kV

SIMOTEC COMPOSITE SOLID CORE INSULATORS

SIMOTEC composite long rod insulators as well as composite station post insulators combine the highest levels of electrical insulation and mechanical tensile strength in a compact and lightweight design. They are used for suspension and tension applications up to 420kV. We offer HTV as well as LSR silicone rubber products processed in an injection moulding process by the use of brittle fracture resistant FRP rods (E-CR glass). Our insulators are designed and tested according to the specifications outlined in IEC 62217, IEC 61952, IEC 61109 and IEC 62231.



Post insulator 123kV



Post insulator 52kV



Suspension insulator 42,5kV

MEDIUM VOLTAGE

KUVATEC EPOXY CAST-RESIN INSULATORS

Since the day of our inception in 1979, KUVAG has striven towards leading the industry of casting epoxy resin for application in the electrical industry. We have produced thousands of articles relying on the high performance of casting moulds designed and manufactured by KUVAG. In our laboratories we customize epoxy formulations according to specific requirements. Our installed base exceeds 50 million products giving testimony for the reliability of our products. And more than ever, our expertise in the design and manufacture of epoxy cast-resin products is unmatched.



Pole housing 24kV



Outdoor recloser 38kV



Earthing switch cover



Outdoor post insulator 24kV

KUVATEC STANDARD EPOXY CAST-RESIN INSULATORS

Following the demand for readily available and cost-efficient high performance products from cast-epoxy resin, we have developed a broad range of standard articles for the use in indoor or outdoor distribution applications. From our catalogue customers can choose products fitting their respective requirements or draw on the advice of our experts which helps to save precious time and investment for independent product development.



Transformer bushings 24kV up to 36kV



Socket plugs for size 1 up to size 3



Out-indoor bushings 12kV up to 36kV



Spout 24kV/1250A

KUVASENS CURRENT TRANSFORMERS

KUVAG manufactures current transformers in different designs for indoor and outdoor use. We supply core transformers for installations in GIS application, transformers or power lines in a cast or un-encapsulated state. By using high-quality material very precise measuring categories can be realized in transformers even with relatively low primary currents. Current transformers are typically customized and designed by our engineering team to accommodate specific customer requirements.



3-phase slip-on current transformer



1-phase slip-on current transformer



Compact current transformer W025X
for protection relay WIC1



Outdoor support current transformer 36kV

SIMOTEC SILICONE COMPOSITE INSULATORS

Our SIMOTEC composite insulators for MV applications combine the highest levels of electrical insulation and mechanical tensile strength with lightweight design and cost-efficiency. They are used for suspension and tension applications in outdoor environment, sometimes under extreme conditions. We offer HTV as well as LSR silicone rubber processed in an injection molding process by the use of brittle fracture resistant FRP rods (E-CR glass) or by the use of an epoxy cast-resin core with integrated functionality. Our insulators are designed according to the specifications outlined in IEC 62217, IEC 61952, IEC 61109 and IEC 62231.



Outdoor post insulator 45kV



Line post insulator 36kV



Suspension insulator 24kV

KUVIN

VOLTAGE INDICATING SYSTEMS

Capacitive indicating systems from KUVAG satisfy the demand for a favorably-priced and maintenance-free system which complies with international standards e.g. IEC 61243-5. Determining the absence of voltage in medium voltage switchgears is performed in a set consisting of capacitive insulators, coaxial cables, and voltage indicating systems either with or without relay. A number of systems and accessories ensure ideal fit for virtually any customer application. In addition, KUVAG is positioned to custom-design special systems in case very specific features are required.



Indicating system with LCD display



CPI plus indicating system



Indicating system RVI DC 1P



Indicating system RVI DC 2P

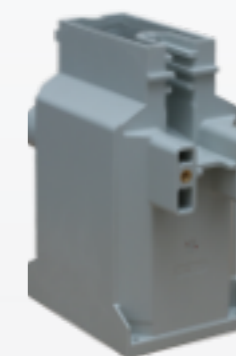
KUVADUR

SMC / BMC COMPOSITES

Our high-performance products made from glass-fibre reinforced materials like Sheet Molding Compounds (SMC) and Bulk Molding Compounds (BMC) are used, when very high flexural, impact and tensile strength as well as good electrical properties are needed. Often these features have to be combined with resistance to extreme chemicals and weather conditions. Due to advantages like e.g. lightweight or good impact strength these products often replace traditional structural components from metal or ceramics or sometimes represent an alternative to cast-epoxy resin products.



Pole housing 36kV



Pole housing 12kV



Upper plate for a tap changer



Arcing chamber for switch disconnecter



KUVAG MOBILITY



KUVATEC EPOXY CAST-RESIN INSULATORS FOR TRAFFIC ENGINEERING

Leveraging our rich experience in epoxy casting, KUVAG has early developed epoxy cast-resin products for the traffic engineering industry. Typical applications are pantograph insulators, circuit breakers, or roof bushings for locomotives and other rolling stock. We have developed special resin systems which are certified according to relevant standards. Our proverbial quality performance and reliability enables uninterrupted operation in harsh environment. The insulators and bushings are designed to fulfil relevant standards needed by the customer such as EN IEC 45545 and others.



DC roof bushing 3kV



AC roof bushing 25kV



Pantograph insulator 25kV



Circuit breaker 25kV

SIMOTEC

SILICONE COMPOSITE INSULATORS

Innovative solutions for rail electrification require insulation components which are secure, resistant against corrosion and ageing over the expected lifetime, require low-maintenance, and ensure maximum efficiency and reliability. Our silicone composite insulators combine the highest level of electrical insulation and mechanical tensile strength in a compact, lightweight one-piece housing design. By uncompromising dedication to design, choice of raw materials, and process quality KUVAG sets highest standards for these products. The insulators are designed to fulfil the standards needed by the customer such as EN IEC 45545.



Vacuum circuit breaker 25kV



Catenary insulator 15kV



Pantograph post insulator 25kV



Loop insulator 3kV

KUVADUR

SMC INSULATORS FOR METRO THIRD RAIL

Our high-performance products made from Sheet Molding Compounds (SMC) are highly suitable for third rail applications in subway or light rail. They combine good electrical features with excellent flexural, impact and tensile strength as well as resistance to UV and extreme environmental conditions. Our insulators are typically customized and designed to accommodate specific customer requirements. Many years of undisturbed service in numerous subways worldwide are an excellent proof of our products. The insulators, covers and conducting rails are designed according to the relevant standards like e.g. UL94 V0.



3rd rail post insulator 3kV



Conducting railpost insulator



Universal 3rd rail insulator 3kV



3rd rail system with SMC bracket insulators



KUVAG INDUSTRY



INDUSTRIAL SOLUTIONS

The design and manufacturing of products to be used in performance-critical environment has always been at the core of our competence. Therefore, it has been a logical step to extend our range of activities to industrial sectors, where our technological expertise can create additional value. In these applications customers trust KUVAG products, when challenging requirements are to be met. Applications range from structural components in machinery and plant construction, renewable energy, water treatment, magnetic resonance imaging, or steel and oil industry. In all these applications our products are a guarantee for central KUVAG values: Reliability and performance.



Satellite dishes



Tube for filter systems



Tube for Magnet Resonance Imaging



Wind power coupling



HEADQUARTERS

KUVAG GMBH & CO KG

Dragonerstraße 2
A - 4720 Neumarkt/ Hausruck
Austria
Tel.: +43 7733 5000-0
Email: sales@kuvag.com



KUVAG CR, SPOL. S R.O.

Nádražní 489
CZ - 33501 Nepomuk
Czech Republic
Tel.: +420 371 512 200
Email: office@kuvag.cz



KUVAG ISOLA COMPOSITES GMBH

Isolastraße 2
D - 52353 Düren
Germany
Tel.: +49 2421 55 499-0
Email: sales@kuvag-isola.com



KUVAG (XIAMEN) ELECTRICAL TECHNOLOGY CO., LTD.

P.R. China, Xiamen, Haicang District,
Dongfu Road 2875
Building No. 1, 1st Floor
Postcode 361022
Tel.: : +86 592 601 6361
Email: office@kuvag-xiamen.com



CONTACT US NOW

Call or email our experts at the nearest KUVAG site or find the contact person covering your area on our website at

www.kuvag.com

KUVAG