# **EVERYTHING FOR THE RIGHT CONNECTION**





## ENERGIZING USE ON ALL CONTINENTS

### Precise and stable under High Voltage

02

#### Lorünser sets benchmark for energy distribution

For more than 60 years, Lorünser Austria has produced complex components for outdoor substations.

Based on long experience in the area of high voltage engineering with more than 35,000 products and 7,000 different models, Lorünser offers its customers optimized solutions.

No matter what the specific requirements are for connectors, clamps, busbars conductors and string sets (with insulators) for outdoor substations - experts at the Lorünser in-house engineering department develop tailormade products for the perfect connection for substations from 110 to more than 1,000 kV.







03

#### The supplier for substations

Quality products, a comprehensive product portfolio, experienced teams and project management experience worldwide are the right ingredients for the realisation of any project, no matter how challenging. Thanks to the in-house, modern production, toolmaking and zinc coating shop, Lorünser's strengths are short lead- and reaction times - and also flexibility, including for extraordinary customer requests.

High quality products guarantee efficient and safe energy transmission through new or extended substations. In order to keep it that way, Lorünser regularly carries out quality checks, material analysis, high voltage and mechanical tests or constant current tests in the internal laboratories.







01 110 kV Stendal / Vattenfall Germany



## SOLUTIONS FOR HIGH VOLTAGE

### Intelligent components for energy management



#### One stop solutions

04

Today, enterprises that can offer functional solutions without complicated interfaces are in high demand. Since Lorünser is a one-stop supplier, customers can focus entirely on their core business.

In this context, Lorünser works as a general contractor and takes over all requested services in regard to the project, such as professional consultation, engineering or project management, from development and production of the components necessary for the substations to supervision on the construction sites. Best quality is our highest priority.









#### Specialist for difficult tasks

Lorünser products have been developed especially for high voltage. You are looking for a quick solution for outdoor substations, approved and tested knowledge in switchgear technology or flexibility for development and production? Experienced technicians and engineers support you in all questions regarding high voltage engineering and switchboard technology - from 110 kV to more than 1,000 kV AC or DC.

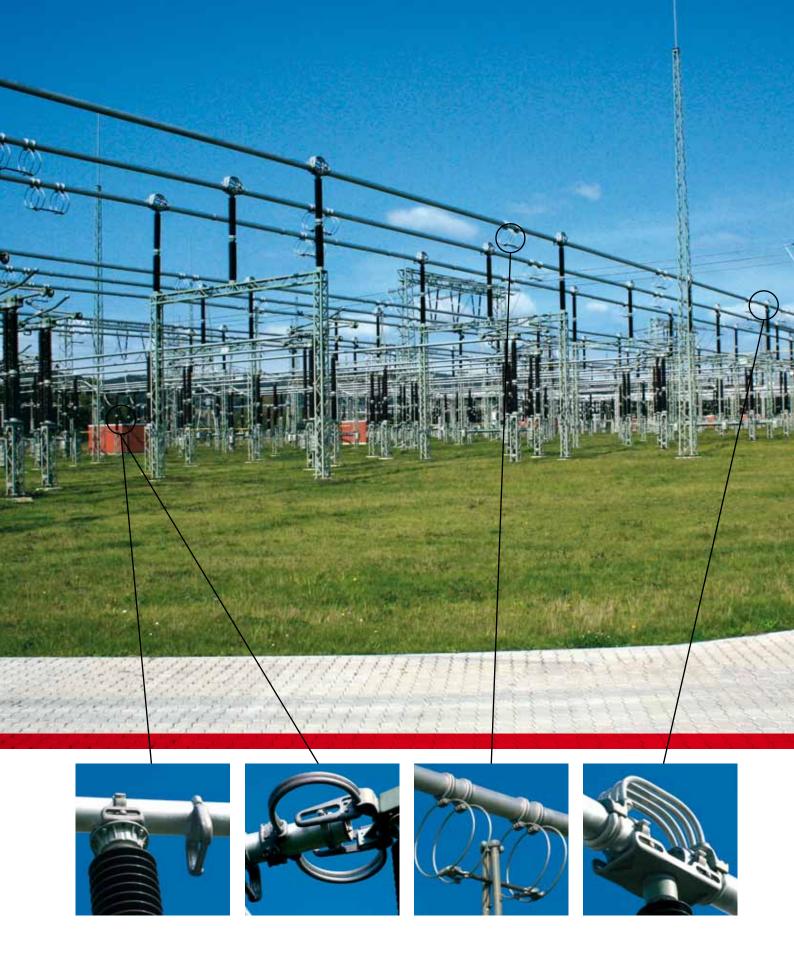
Lorünser already supports its customers with know-how during the first planning and project phase. This is an advantage, especially if difficult conditions require special solutions. If the requirements change, the internal Lorünser engineering department takes care of flexible and quick adjustments to the new conditions.





01 220 kV Bürs / illwerke vkw Austria





#### High energy references

Clamps, tension- and suspension strings (with integrated insulators of different technologies), conductors, busbars to length of more than 20 meters. Within the 35,000 products and 7,000 different models it is easy to find the perfect fit.





#### One-stop

Lorünser supplies as the one-stop supplier to many major projects and, if required, takes over logistics at the construction site and the supervising at site.



## STATE-OF-THE-ART TECHNOLOGY

### Quality. The connecting element

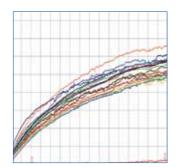
#### 08

#### Safety first

The smallest detail matters. Before Lorünser products leave the plant, they are subject to stringent tests.

This ensures perfect operation of all components, which are distinguished by first-class quality, easy handling and varied applications.

Lorünser products are used on all continents. They are subject to extreme conditions. No matter if in tropical zones with high temperatures or on altitudes of up to 4,000 meters. For this reason, Lorünser does not accept any less than first quality.









09

#### One hundred per cent

Many factors make Lorünser a strong partner. On one hand, this includes product availability and the range of products. On the other hand Lorünser sets the highest standards for itself. Thus, not only do we test our products, but we also continuously test our systems and procedures. We have been certified ISO 9001:2010 and ISO 14001:2011.

Another important advantage is the fact that Lorünser carry out the majority of material tests and quality checks in our own internal laboratories. For example, all connectors without exception are subject to a temperature treatment after the casting and forging process. Every connector bore is treated automatically either smooth or grooved for the highest extraction forces and best electric connections.







01 650 kV DC Apollo / South Africa



## EXTRA HIGH VOLTAGE FOR OUR CUSTOMERS

#### **Our History**

10

More than 60 years ago, the Lorünser family built a foundry for light metals, turning and forging shop.

Later, they specialised for the electrical supply industry. In 1985 the international KNILL-Mosdorfer group acquired the light metal plant. As market leader, Lorünser focused on development and production of connectors for 500 kV substations and fittings for insulation strings for substations in the mid 90s.

In 2000, Lorünser became known for the development and production of connectors for 800 kV AC substations. At the same time our first projects for DC connectors up to 670 kV were taken on.

Today, Lorünser, together with its customers, undertakes projects greater than 1,000 kV.





**01** 315 kV DC Valve hall / l'Outaouais Canada



Knill Energy

Knill Technology

11

## Together strong for the customer - the Knill Gruppe

Today, Lorünser Austria, together with the Knill Gruppe in Weiz/Austria, forms a formidable international partnership and has become market leader in many market segments. Founded 300 years ago, the Knill family enterprise has about 1,900 employees worldwide in two divisions with a large number of businesses.

Knill Energy is involved in the development, production and distribution of solutions and products for the international energy industry. This includes fittings for overhead transmission lines - from Mosdorfer Austria, conductor technology for substations - from Lorünser Austria, construction of cabinet systems -Elsta Mosdorfer & Göhre and equipment for distribution networks - from Mosdorfer CCL UK.

Knill Technology develops and supplies production systems for the battery, wire & cable and fiber optic industry.





From energy production to the end user, the Knill Gruppe as a specialised enterprise takes care of the right connection and distribution of energy.

#### Mosdorfer GmbH

Specialist for Overhead Transmission Lines Mosdorfergasse 1, A-8160 Weiz www.mosdorfer.com



Specialist for Overhead Transmission Lines 229/112 Theparak Road, Bangsaothong, Samutprakam, Thailand 10540



4

MOSDORFER

#### Lorünser Austria GmbH

Specialist for Substation Equipment Bahnhofstraße 9, A-6824 Schlins www.loruenser-substations.com



#### Elsta Mosdorfer GmbH

Specialist for Cabinet Systems Bahnstraße 29 A-8430 Kaindorf an der Sulm www.elsta.com



#### Göhre GmbH

Specialist for Cabinet Systems Im Löchel 2, D-35423 Lich-Eberstadt www.goehre.com



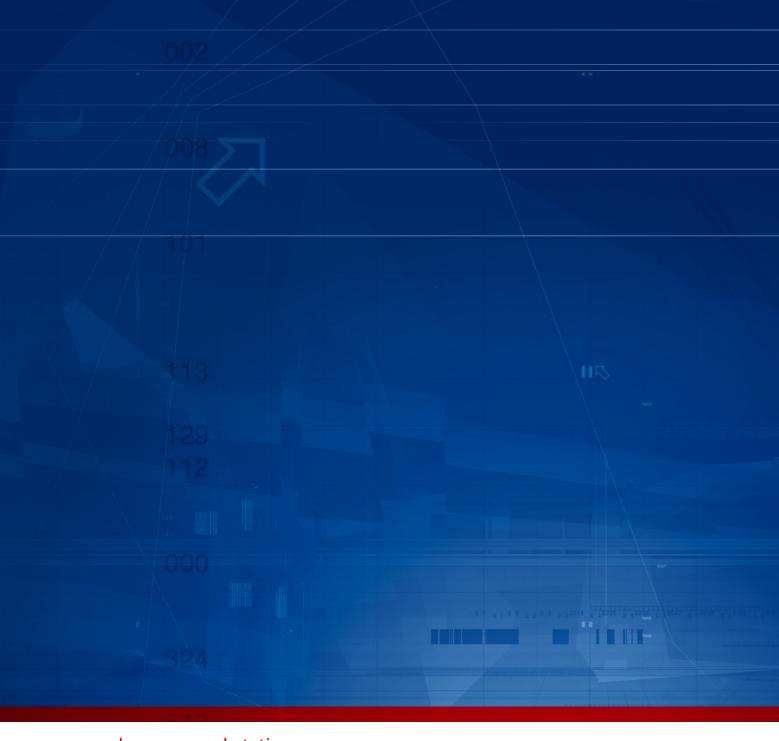
Mosdorfer CCL Systems Ltd.

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