REDUR.DE



MEASUREMENT TECHNOLOGY DIVISION

CHANGING THE WAY ENERGY IS STORED.

Reliable **Battery Energy Storage Systems** require more than powerful batteries — they depend on perfectly engineered magnetic components. With customized transformers, chokes and filters, we develop reliable solutions tailored to demanding energy storage applications around the world.

GET IN TOUCH

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CO_2 NEUTRAL

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FOLLOW THE CHANGE
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AT HOME IN THE WORLD'S MARKETS.

Phoenix Mecano is a global technology group and a leading manufacturer of enclosures and industrial components for a wide range of markets.

As part of the Phoenix Mecano Group, we benefit from a global network that combines innovation, precision, and engineering excellence across industries and continents. Close collaboration within our **Measurement Technology Division** creates powerful synergies – from shared research and development to combined engineering expertise, optimized sourcing, and efficient manufacturing.

These strengths enable us to deliver solutions that are more efficient, more reliable, and better prepared for the challenges of tomorrow. Together, we achieve what no single company could accomplish alone: developing technologies that create measurable value for our customers, our industries, and the world of tomorrow.

POWERING THE HEART OF BATTERY STORAGE SYSTEMS.

Reliable Battery Energy Storage Systems begin with reliable magnetic components. As a specialist in transformers, chokes and filters, we develop solutions that ensure efficient power conversion, stable operation and long-term reliability. From standard products to fully customized designs, our engineering teams support BESS manufacturers with magnetic solutions tailored to their specific applications.

we do not deliver components – we deliver solutions.

TRANSFORMERS

Engineered for reliable power conversion and maximum efficiency. Customized solutions for every Battery Energy Storage application.

CHOKES

Optimized for stable current flow, high power density and long-term reliability. Customized choke solutions designed around your system.

FILTERS

Designed to improve power quality and system performance. Reliable filter solutions for demanding converter and grid applications.



CHANGING SOLUTIONS FOR YOUR INDUSTRIES.

Wherever electrical energy flows, our transformers and measuring solutions help shape the future – with precision, safety, and innovation. As a solution provider, we offer a broad range of standard products as well as customized solutions tailored to your specific requirements.

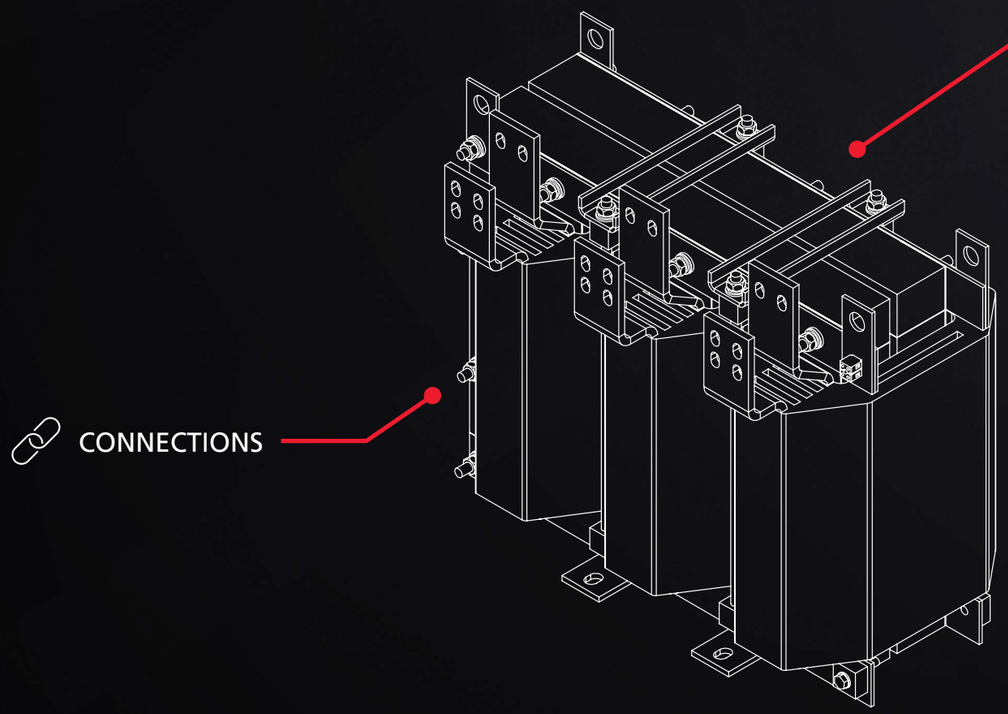
Battery Energy Storage Systems are transforming the way electrical energy is generated, stored and distributed. Our magnetic components are designed for demanding applications across the entire energy landscape – supporting reliable operation from commercial installations to utility-scale storage projects.

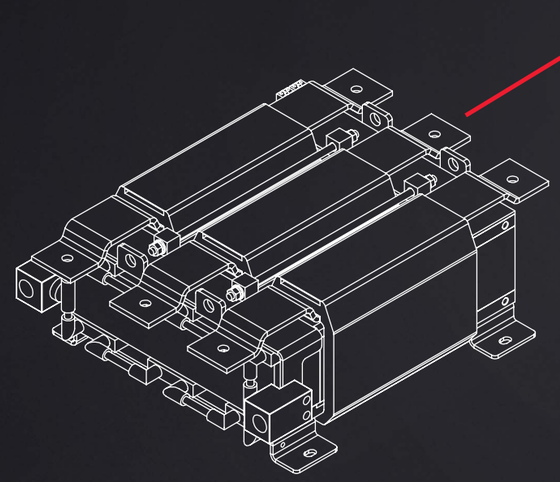
// **Utility Scale BESS**
// **Commercial & Industrial Storage**
// **Solar + Storage**
// **Wind + Storage**
// **EV Charging**
// **Data Centers**

SHAPED BY YOUR NEEDS.

Every Battery Energy Storage System comes with unique technical requirements. That's why we develop magnetic components that fit your application instead of forcing your application to fit the product.

Whether optimized installation space, customized interfaces or advanced cooling concepts – our engineering team develops solutions built around your system.





OPTIMIZED COOLING CONCEPTS.

Where performance meets precision, cooling makes the difference. Whether air or water – natural or forced – we design cooling solutions that perfectly match your application and environment. From compact air-cooled units to high-performance water systems, every concept is engineered to ensure reliability, efficiency, and measurable change.

AN
Air Natural

AF
Air Forced

WF
Water Forced

CHANGING REQUIREMENTS. CHANGING SOLUTIONS.

As Battery Energy Storage Systems scale, so do the demands placed on their magnetic components. Higher power and storage capacities require increasing current-carrying capability, optimized thermal management and application-specific designs. From compact commercial installations to utility and grid-scale projects, we develop transformers, chokes and filters precisely matched to your system requirements.

Increasing System Requirements: Power & Capacity
Current-Carrying Capability + Thermal Management

COMMERCIAL
100 kWh – 1 MWh



AN Air Natural
100 – 500 kW PCS
150 – 800 A

INDUSTRIAL
1 MWh – 10 MWh



AF Air Forced / **WF** Water Forced
500 kW – 1.5 MW PCS
800 – 1,800 A

UTILITY
10 MWh – 100 MWh



WF Water Forced
1 – 5 MW PCS
1,800 – 4,000 A

GRID SCALE
100 MWh – 10 GWh



WF Water Forced
5 MW+ PCS
2,500 – 5,000 A per PCS

Low V Medium V High V

MAKE A CHANGE WHEREVER ELECTRICAL ENERGY FLOWS.

Driven by precision, our **Measurement Technology Division** brings together four specialized brands under one shared mission: delivering high-performance measurement and transformer technologies for a wide range of applications.

Each brand contributes its own expertise, strengths, and market focus while sharing the same commitment to precision, innovation, and quality.

Together, we deliver more than products – we provide a global network of expertise, working alongside our customers to develop solutions tailored to their specific requirements.

AC DC

