



HARTU

A Phoenix Mecano Brand



INDUCTIVE COMPONENTS

Inductive. Innovative. Solutions that fit.

INDUCTIVE COMPONENTS WITH TRADITION

HARTU (formerly Götz-Udo Hartmann GmbH & Co. KG) has stood for top-quality customised inductive components, outstanding development capabilities and customer satisfaction for more than fifty years. All HARTU products are made in our own production facilities in Tunisia, Morocco and China. From these locations, our customers are provided with cost-optimised production lines precisely tailored to their specific needs at a production facility certified in accordance with ISO 9001. Product development is performed entirely by our experienced development team in Germany.

The HARTU and PTR brands were merged under the auspices of PTR HARTMANN GmbH in 2018. The group is also augmented by Hartmann Codier GmbH, serving the field of electromechanical components. Three high-capability brands thus mutually reinforce each other on the market.

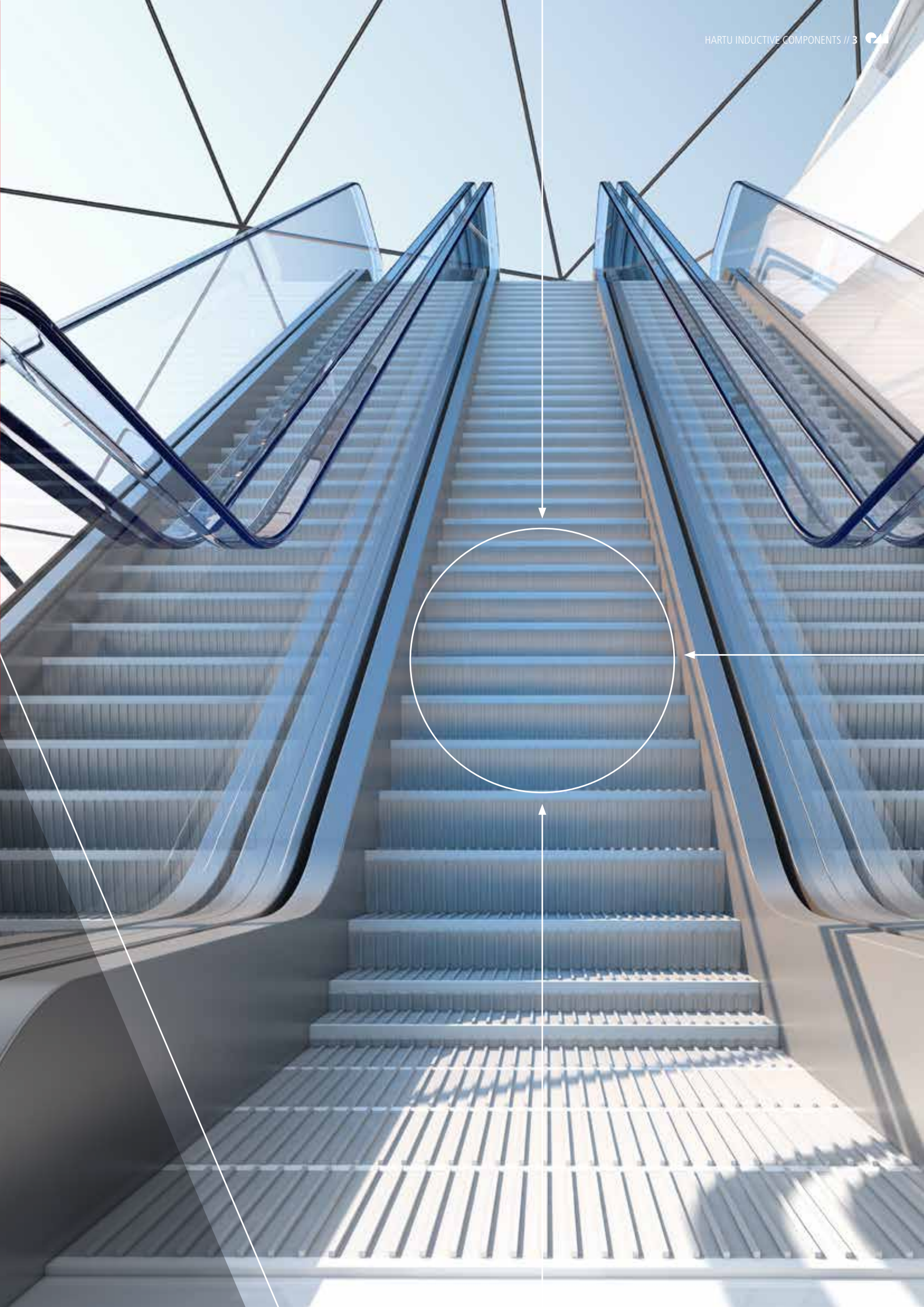
Our secret of success: Quality plus maximum possible flexibility.

We develop, manufacture and market customised inductive components for a range of different applications, extending from propulsion technologies, via renewable energy and white goods, up to and including switched-mode power supplies and lighting systems. We also apply our own UL-certified insulating coating for toroidal cores on behalf of other manufacturers and customers, on a contracting basis. Our own UL electro-insulation systems (EIS in acc. with UL 1446 OBJY2) are available.

PTR HARTMANN is an important part of the greater whole.

The PHOENIX MECANO group, of which PTR HARTMANN GmbH is a part, is a globally positioned technology corporation active in the fields of industrial components and enclosure systems. PHOENIX MECANO, with registered offices in Switzerland, is a leader on many markets. This group of companies focuses on the professional production of niche products. The applications for these products include, inter alia: propulsion systems, mechanical and plant engineering, control and instrumentation (C&I) technology, medical technology, aerospace, regenerative energy, and the residential/care sector.





DEVELOPMENT, PRODUCTION AND GLOBAL MARKETING OF CUSTOMISED TRANSFORMERS AND CHOKES

- » Applications for power electronics
- » Electromagnetic compatibility (EMC) components
- » Production of iron powder cores
- » ISO and UL certification
- » Prototyping
- » Small-run production



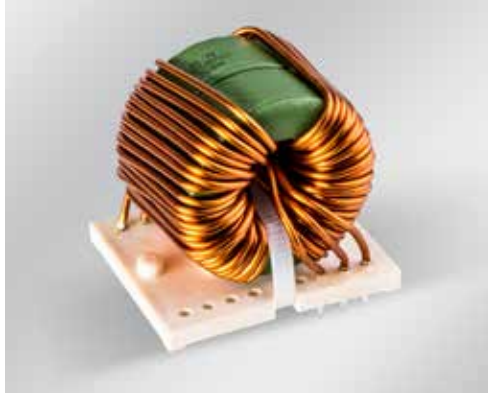
TAILOR-MADE IDEAS

We find the smart, tailor-made solution for every customer

The inductive components which we develop on a customised basis are carefully tailored to specific technical requirements and applications. The most important precondition for the meeting of your wishes is comprehensive consulting and support, from the enquiry stage up to and including delivery.

No-compromises quality

Uninterrupted quality control, starting from the conception stage up to and including production, is firmly anchored in our certified Quality Management (QM) system in conformity to DIN ISO 9001:2008 (2015) and assures constant and consistent high product quality. The same also applies to our responsible attitude to the environment: the materials selected for our production activities conform to the universally applicable environmental standards and pollutant exclusions.



RANGE OF PRODUCTS: PLASTIC INJECTION MOULDINGS

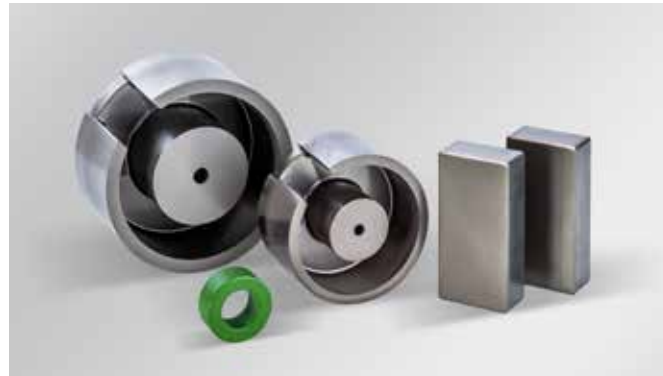
Whether the requirements are for a high CTI rating or GWFI and GWIT testing: our own injection-moulding tools permit the production of coil winding bodies and enclosures in the most diverse range of plastics for greatly differing applications.

Correct selection of the plastic material permits the implementation of moulded enclosures for common mode chokes, and also coil winding bodies for the achievement of enhanced insulation in switched-mode power supply transformers and three-phase chokes with high DC link voltages. In addition, we also possess great competence in injection moulding and also our own tool- and die-making team, based at the Hartmann Codier GmbH site. Our Chinese location also features its own tool-making department, among other facilities.





Competition today means that the demand for new products with low mechanical tolerance for soft-magnetic applications is constantly increasing. This is where reliable and fast-acting partners are necessary. In order to respond to these new requirements, PTR HARTMANN GmbH has a service centre which processes soft-magnetic materials. Our standard products are manufactured according to the usual tolerances, and our service centre is able to manufacture – quickly and with a high level of precision – new shapes and dimensions for cores with an iron powder base.



RANGE OF PRODUCTS: IRON POWDER CORES

In addition to HARTU inductances, PTR HARTMANN GmbH also offers core components for inductances. The raw material is electrically insulated iron powder.

Our iron powder materials combine excellent suppression characteristics with a high level of pre-magnetisability with a low stray field. As a result of these characteristics, our iron powder materials are ideal for use in interference suppression choke applications at 50 Hz or as dimmer chokes. Our wide range of core geometries (ring, E, EF, cylinder, tube or profile cores, or pot cores) gives maximum flexibility for the design of chokes. Thanks to our epoxy coating, which stands out due to a high level of dielectric strength with minimal lacquer application, the cores can also be supplied lacquered.

ON COURSE FOR GLOBAL SUCCESS

As a PHOENIX MECANO group company, we combine the presence of an international corporation with the flexible structure of a medium-sized enterprise. Our highly qualified team of experts develops all our products in Germany. The continuous expansion of our production and development capacities will enable us to continue assuring our customers of cost-optimised, tailor-made solutions long into the future.



Our wound components are produced at our plants in the Maghreb states of Morocco and Tunisia. Our own QM system in conformity to DIN ISO 9001:2008 (2015) is also the basis for constant and uniform product quality at all these locations.



PTR HARTMANN

A Phoenix Mecano Company

A COMPANY IN THE PHOENIX MECANO GROUP

The Phoenix Mecano Group is a technological enterprise which operates around the world and is represented on the international growth markets. With its three building technology, mechanical components and ELCOM / EMS divisions, the company is the leader in many markets. Machinery and plant engineering, measurement and control technology, electrical engineering, automotive and rail engineering, energy technology, medical technology, aerospace technology, as well as the home and hospital care sector, are important fields of application.

GLOBAL PRESENCE

With 61 locations on every continent, we and our international workforce are close to our customers and guarantee efficient production, resource-friendly logistics and market-driven solutions.

PTR HARTMANN GmbH

Gewerbehof 38

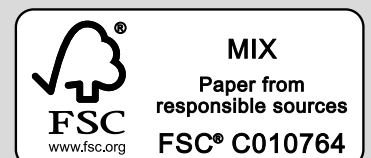
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