

Materials Services
Materials Germany

Magnets move us

Magnets, magnetic systems
and engineering



thyssenkrupp



We know that elementary particles can move great things. After all, what would be big without small? Plus without minus? Innovation without tradition? Or success without responsibility? At thyssenkrupp Magnettechnik we bring things together to help you solve your tasks. Our experts from around the region are at home in the world's user and procurement markets. We help you to identify or develop components and complete solutions that suit your requirements – from headphones to magnetic separators, from MRTs to brake magnet systems.

Opposites complement each other.



You have a fresh idea and are looking for the right technical solution? Magnetic force can set inventions in motion that make life easier. In a sleeping aid our magnets rock the pram and the baby gently and quietly to sleep.

What do you want to move? We can rock the baby together.

... from the very beginning.



We send out 300,000 magnets from Bochum daily.



Some of them we send to the desert.

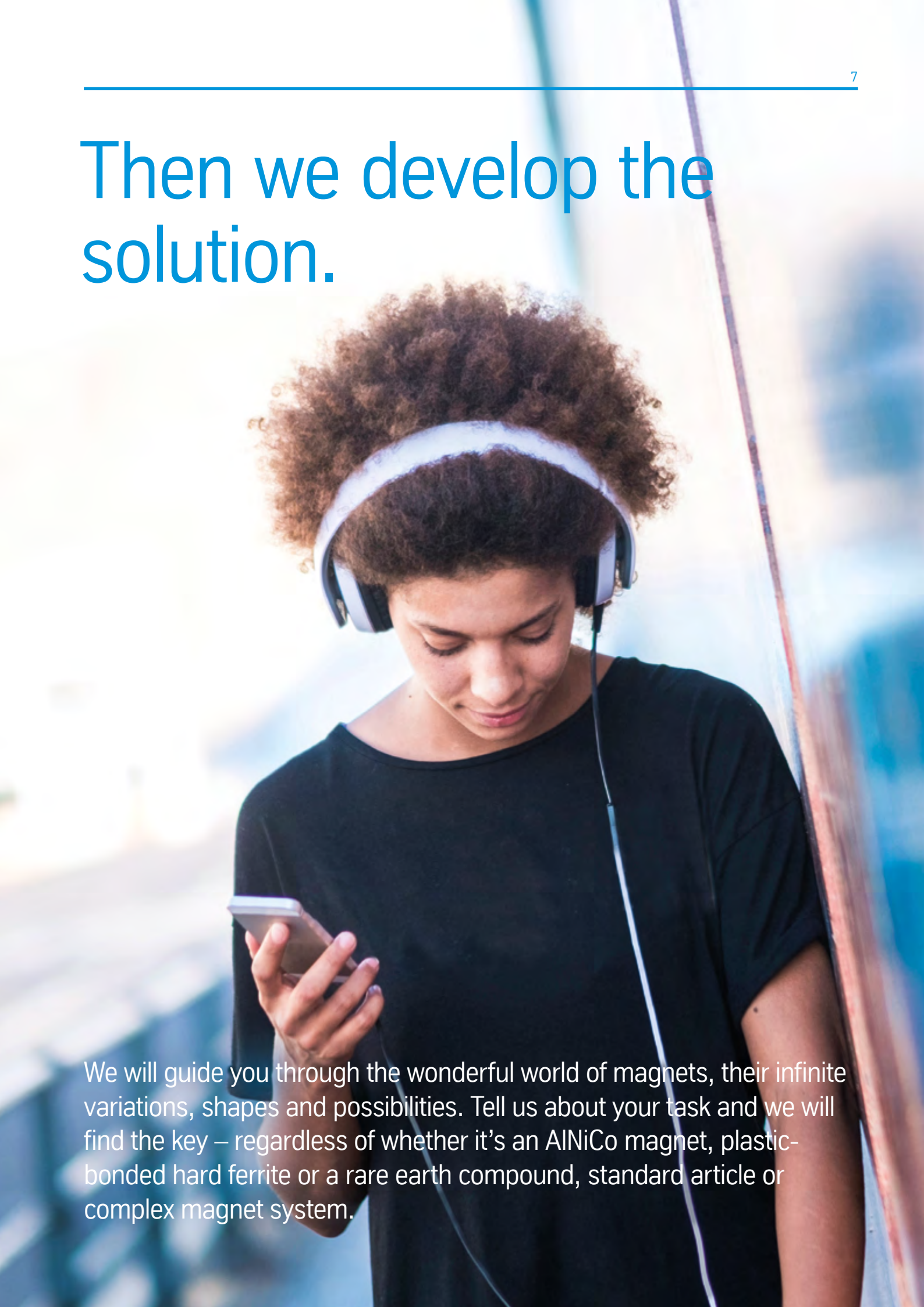


200 of our best permanent magnets drive the highly efficient wheel hub motors of the sleek thyssenkrupp blue.cruiser on its way to the future. At the world championship for solar cars, our magnets leave the Australian heat and penetrating dust cold.

First, we listen.



Then we develop the solution.



We will guide you through the wonderful world of magnets, their infinite variations, shapes and possibilities. Tell us about your task and we will find the key – regardless of whether it's an AlNiCo magnet, plastic-bonded hard ferrite or a rare earth compound, standard article or complex magnet system.

Our magnets make life easier.



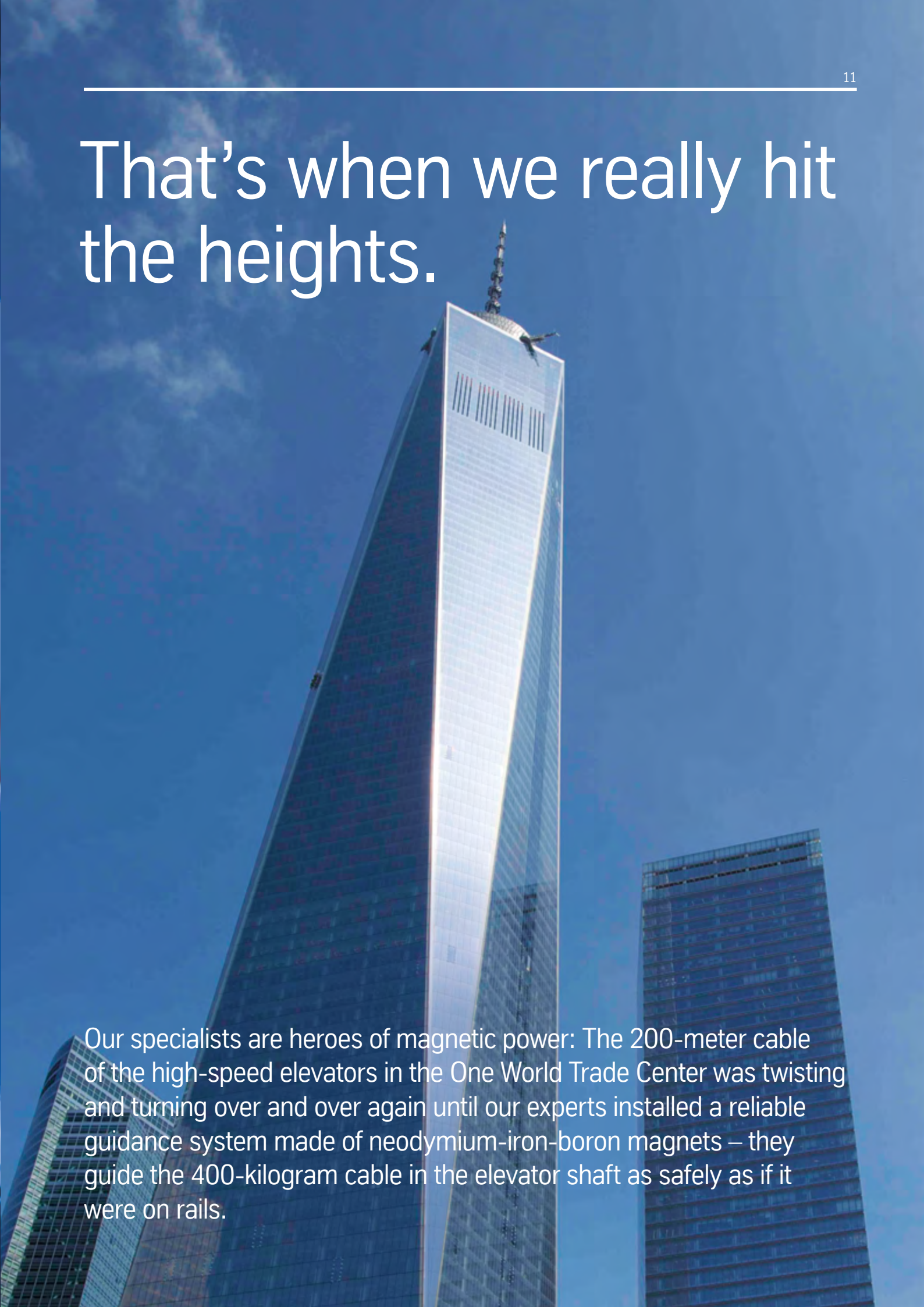
And sometimes have to carry a heavy load.



Our products are everywhere, in the bathroom as well as in the cargo port. When they lift, hold and position things for us, they do so reliably and safely. Without drilling, without screws – solely with magnetic force. And in record time.

A man with a beard, wearing a white lab coat, is looking upwards with a focused expression. He is standing in front of a large, blue industrial magnet. The magnet has a red stripe running vertically down its center. The background is a blurred industrial setting with blue and red elements.

We dive deep into
the topic of magnetic
technology.

A low-angle shot of the One World Trade Center skyscraper in New York City. The building is a sharp, triangular shape that tapers towards the top, reaching into a clear blue sky with some light clouds. The building's facade is made of glass and steel, reflecting the sky. Another skyscraper is visible in the background to the right.

That's when we really hit
the heights.

Our specialists are heroes of magnetic power: The 200-meter cable of the high-speed elevators in the One World Trade Center was twisting and turning over and over again until our experts installed a reliable guidance system made of neodymium-iron-boron magnets – they guide the 400-kilogram cable in the elevator shaft as safely as if it were on rails.

Tradition comes with responsibility. So does the future.



Staying grounded – that's our way of life. We have been specialists in magnetic technology for 100 years. We know what's what: Because in addition to physical knowledge, we have over 10 decades of solid experience and valuable practical knowledge. We are deeply rooted in the Ruhr area and support customers in meeting the demands of globalization.

We supply and advise small businesses and large corporations alike. Well and truly. As part of a responsible, traditional company, we participate in visionary joint projects; for example, with intercultural perspectives or environmental protection ideas. The groundbreaking solar car was developed in cooperation with Bochum university and thyssenkrupp and in close collaboration between science and industry.

Listen first. Then cut to size.



You need something new? Then you have the floor. We wait until we know exactly what you want, and then we start developing. This is how the most amazing things are created: from small, simple magnets for headphones to large, complex magnet technology for heavy industry.

In order to tailor the perfect solution, our physicists and engineers make full use of the manifold possibilities of analysis, design, 3D numerical field calculations and sample production.

Thanks to certified magnet suppliers all over the world and qualified processing in Germany, we meet the highest quality requirements – without losing sight of financial aspects.

Here, quality is standard. On a small or a large scale.



Our standards are high. And that's just one of the reasons why our standard products are highly reliable components that not only carry a lot of weight, but also a great deal of responsibility day after day:

Single magnets allow motors, loudspeakers, couplings and rotors to function or loads to float, while magnet systems make it possible to separate materials and handle huge sheets and the heaviest slabs. Whatever it is you want to move – we supply the components that meet your requirements.

From Bochum. To the world.



With our headquarters in Bochum, we're located right in the heart of Germany and the whole of Europe. We are among the market leaders and offer our expertise to customers around the world via the thyssenkrupp sales network and other international partnerships.

We not only provide you with technical advice, but also support you logistically. Wherever you are, we deliver our products just in time after comprehensive quality control and in accordance with customer requirements.

Really attractive: Our world of magnets.

The world knows our middle name: Tradition

In the last 100 years, we at thyssenkrupp Magnettechnik have accumulated a considerable wealth of experience and valuable know-how. What began in 1920 as Magnetfabrik Dortmund is now a branch of thyssenkrupp Schulte GmbH and part of the Materials Services segment.

We're never far away. Wherever you are in the world.

Thanks to close cooperation with the thyssenkrupp Group's many locations, we are on site in person in more than 100 countries: to provide optimum support for our customers.

Off the shelf. Or custom-made.

We have a lot to offer you: our wide range of goods, plus comprehensive expertise. As specialists for magnetic materials, systems and components, we develop innovations that are not yet available when you need them. We are experienced in finding tailored solutions for complex requirements.

Measure, calculate, analyze? We can do that.

Of course, we also carry out magnetic measurements as well as numerical field and analytical calculations of torques, power, holding forces and coil dimensions for you. And even the magnetic measurements required by IATA dangerous goods regulations for air freight shipments.

We share everything with our customers. Even our store of knowledge.

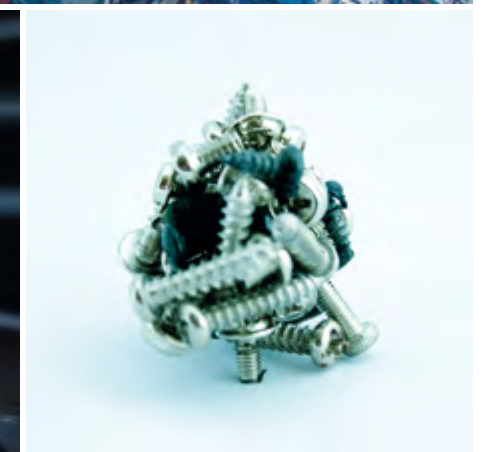
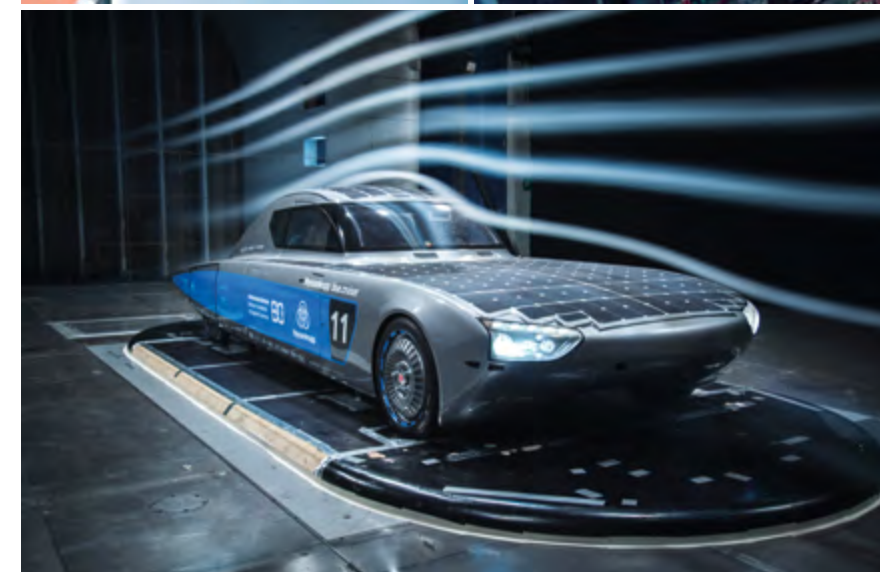
In specialist seminars and in-house training courses, our experienced engineers and physicists demonstrate our know-how in the field of magnet technology.

Trust is good. Quality is even better.

To make sure we always deliver optimum quality, our specialists put magnets and magnetic systems through their paces on state-of-the-art equipment at our own measuring laboratory. That is to say, checking every aspect of their geometrical and magnetic properties. Thanks to the measurement results, we can make precise statements about the design of a system and optimize it if necessary.



thyssenkrupp Elevator



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