

thyssenkrupp in India

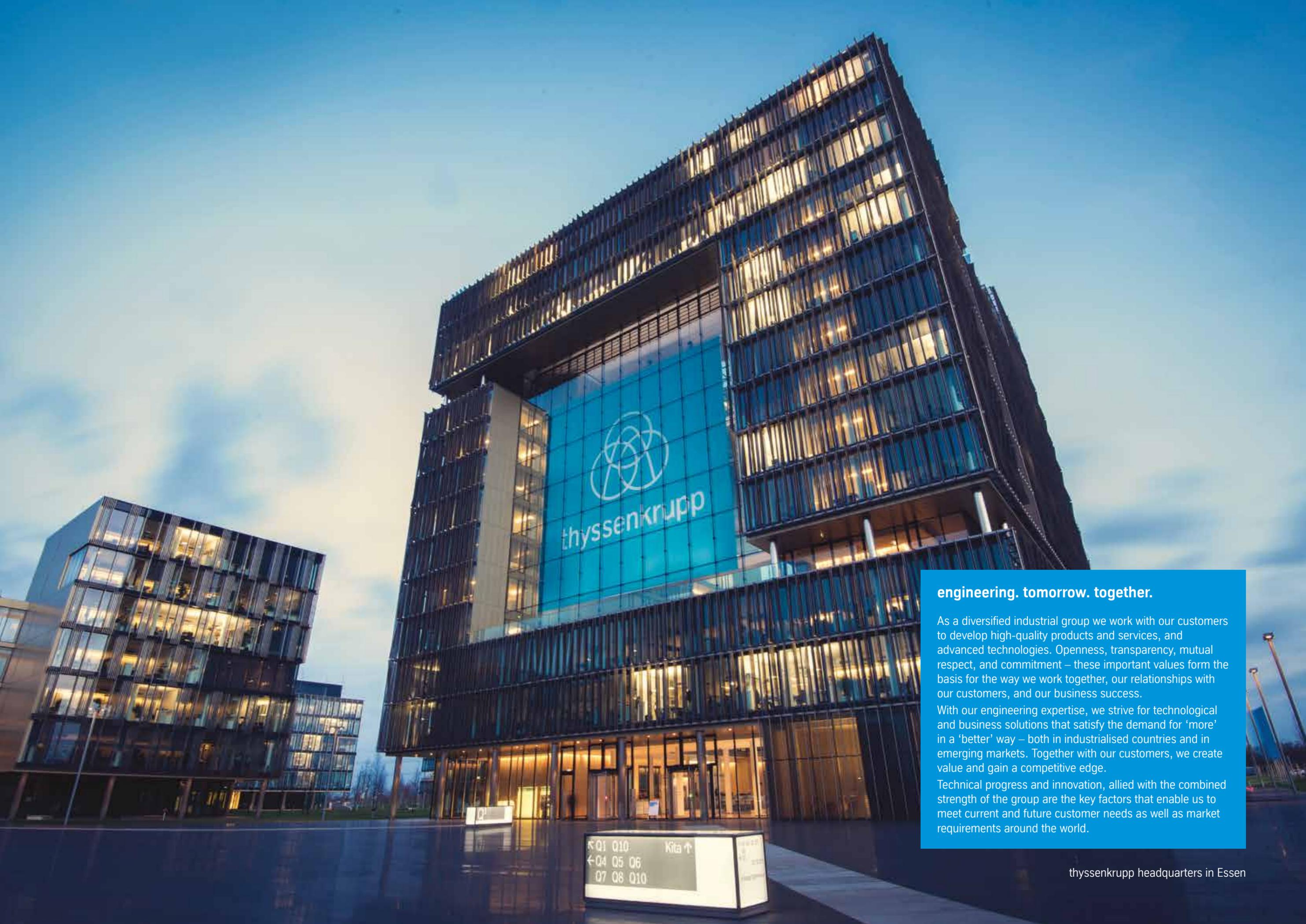
# Engineering the future

An overview of our  
India operations



thyssenkrupp





### **engineering. tomorrow. together.**

As a diversified industrial group we work with our customers to develop high-quality products and services, and advanced technologies. Openness, transparency, mutual respect, and commitment – these important values form the basis for the way we work together, our relationships with our customers, and our business success.

With our engineering expertise, we strive for technological and business solutions that satisfy the demand for 'more' in a 'better' way – both in industrialised countries and in emerging markets. Together with our customers, we create value and gain a competitive edge.

Technical progress and innovation, allied with the combined strength of the group are the key factors that enable us to meet current and future customer needs as well as market requirements around the world.



## thyssenkrupp in India

India is one of the most important markets for thyssenkrupp worldwide. As a globally diversified industrial group, we have ten companies in India. We leverage the engineering expertise within our global network to give our customers cutting-edge solutions and a competitive advantage in the market.

Our repertoire of products and services caters to a wide range of industries that include automotive, construction, buildings and infrastructure, mining and metals, chemicals, energy generation and distribution, food and beverages, aerospace, mechanical and plant engineering, oil and gas, shipbuilding, and special vehicles.

### Market-leading technology across diverse industries in India

- Unique cold cyclone technology with least emission levels for Circulating Fluidized Bed Combustion (CFBC) boilers
- Powering over 60% windmills in India
- Over 60% market share in cryogenic ammonia storage tanks
- Over 70% market share in chlorine plants
- First and only dedicated aerospace material and logistics facility
- Only manufacturer of grain-oriented steel

# Industrial Solutions

A full range of specialist engineering and construction services, and a shipbuilding history stretching back centuries, are the strengths of our Industrial Solutions business area. We deliver high-quality engineering solutions through our global project management skills, first-class system integration expertise, reliable procurement and supplier management, and a service offering that meets the highest international standards.

## Mining

We are one of India's most trusted names in the field of opencast mining and bulk-material handling systems. Our programme comprises a full range of machinery, systems, equipment, and services for the extraction, processing, storage, and transportation of raw materials.

## Cement, Sugar, and Power Plants

We have global resources and proven capabilities in the areas of cement plants and machinery, sugar plants and machinery, and industrial boilers and power plants.

Our core strengths of integrated engineering expertise and automation in manufacturing enable us to execute turnkey projects as an engineering procurement construction contractor, as well.

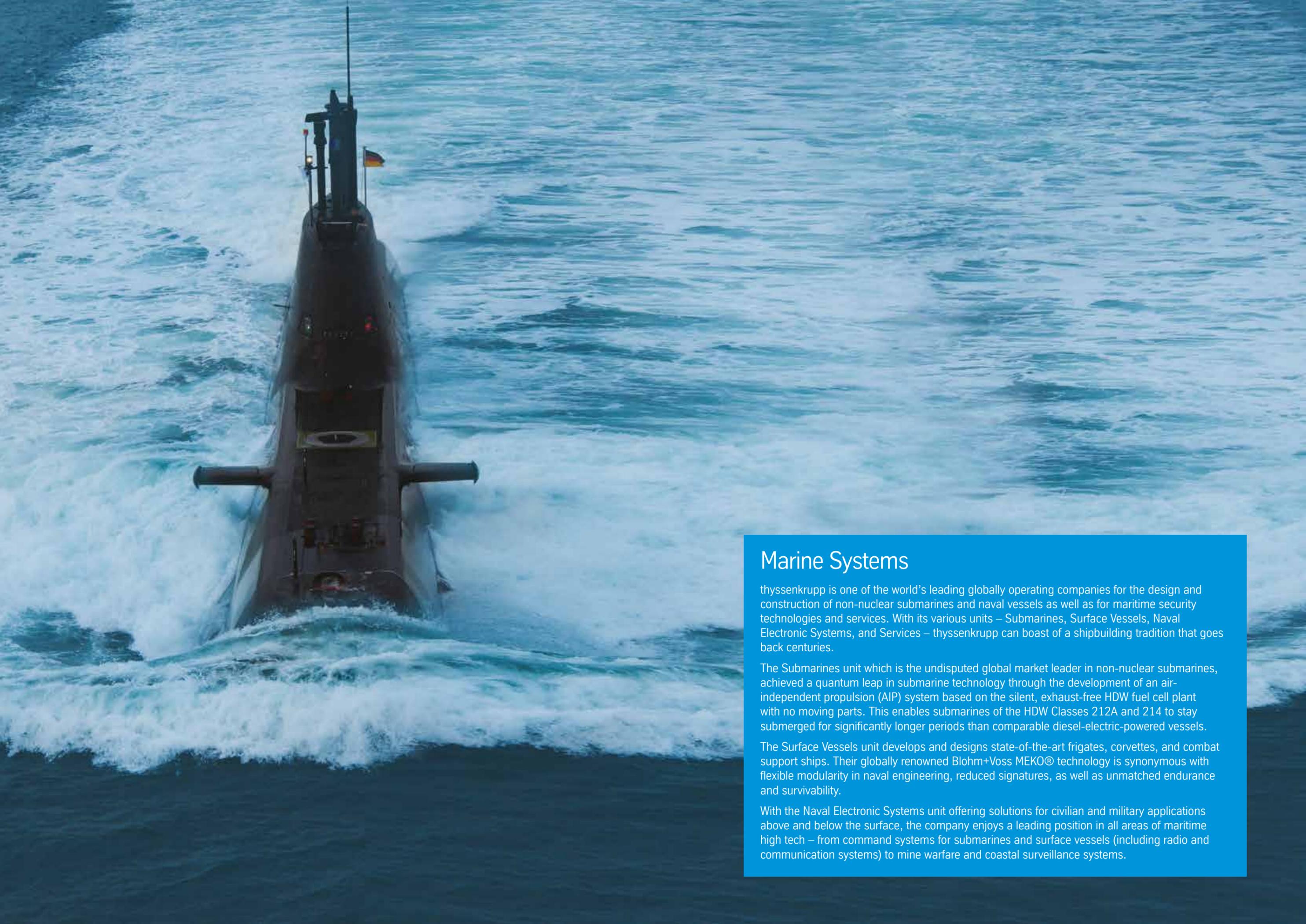
## Chemical and Industrial Plants

We are a premier Indian engineering company for Engineering, Procurement, and Construction Management (EPCM) / EPC – Lump Sum Turnkey (LSTK) implementation of chemical and industrial plants. Our solutions encompass the entire range of services for fertilizer, petrochemical, refinery, electrolysis, metallurgical, low temperature storage, coke oven, and gasification projects. In collaboration with our customers we develop top-quality solutions and deliver efficiency, reliability, and sustainability over the entire life cycle.



## Assembly Technology for the Automotive Industry

With our leading technology competencies, we provide assembling solutions for engines, transmissions, axles, car bodies, and truck chassis and cabins. With a strong local engineering and manufacturing team we are a reliable partner for manually operated, ergonomic assembly tools and fully automated stations for the assembly of complex components. We also offer consulting services in the development of assembly process and assembly-suitable components, as well as the design, manufacture, supply, and commissioning of turnkey assembly lines. Based on the complete know-how in the value chain for battery and car production, we provide assembly lines and test systems for Li-ion batteries and e-motors.



## Marine Systems

thyssenkrupp is one of the world's leading globally operating companies for the design and construction of non-nuclear submarines and naval vessels as well as for maritime security technologies and services. With its various units – Submarines, Surface Vessels, Naval Electronic Systems, and Services – thyssenkrupp can boast of a shipbuilding tradition that goes back centuries.

The Submarines unit which is the undisputed global market leader in non-nuclear submarines, achieved a quantum leap in submarine technology through the development of an air-independent propulsion (AIP) system based on the silent, exhaust-free HDW fuel cell plant with no moving parts. This enables submarines of the HDW Classes 212A and 214 to stay submerged for significantly longer periods than comparable diesel-electric-powered vessels.

The Surface Vessels unit develops and designs state-of-the-art frigates, corvettes, and combat support ships. Their globally renowned Blohm+Voss MEKO® technology is synonymous with flexible modularity in naval engineering, reduced signatures, as well as unmatched endurance and survivability.

With the Naval Electronic Systems unit offering solutions for civilian and military applications above and below the surface, the company enjoys a leading position in all areas of maritime high tech – from command systems for submarines and surface vessels (including radio and communication systems) to mine warfare and coastal surveillance systems.

# Elevator Technology

In the area of passenger transportation systems, we provide advanced and optimised solutions that move people to the next level. Whether it is a new installation, modernisation, or carrying out routine maintenance, our innovative and energy-efficient products are designed to meet customers' specific requirements.

Our portfolio includes passenger and freight elevators, escalators, moving walks, passenger boarding bridges, and stair and platform lifts, as well as tailored service solutions for all products.

With an extensive network of 6 zone offices, 27 branches, and 70 service and response centres, we are available to our customers 24/7/365, even at the remotest locations.

# Components Technology

In the Components Technology business area thyssenkrupp produces and markets high-tech components for the automotive industry and mechanical engineering worldwide.

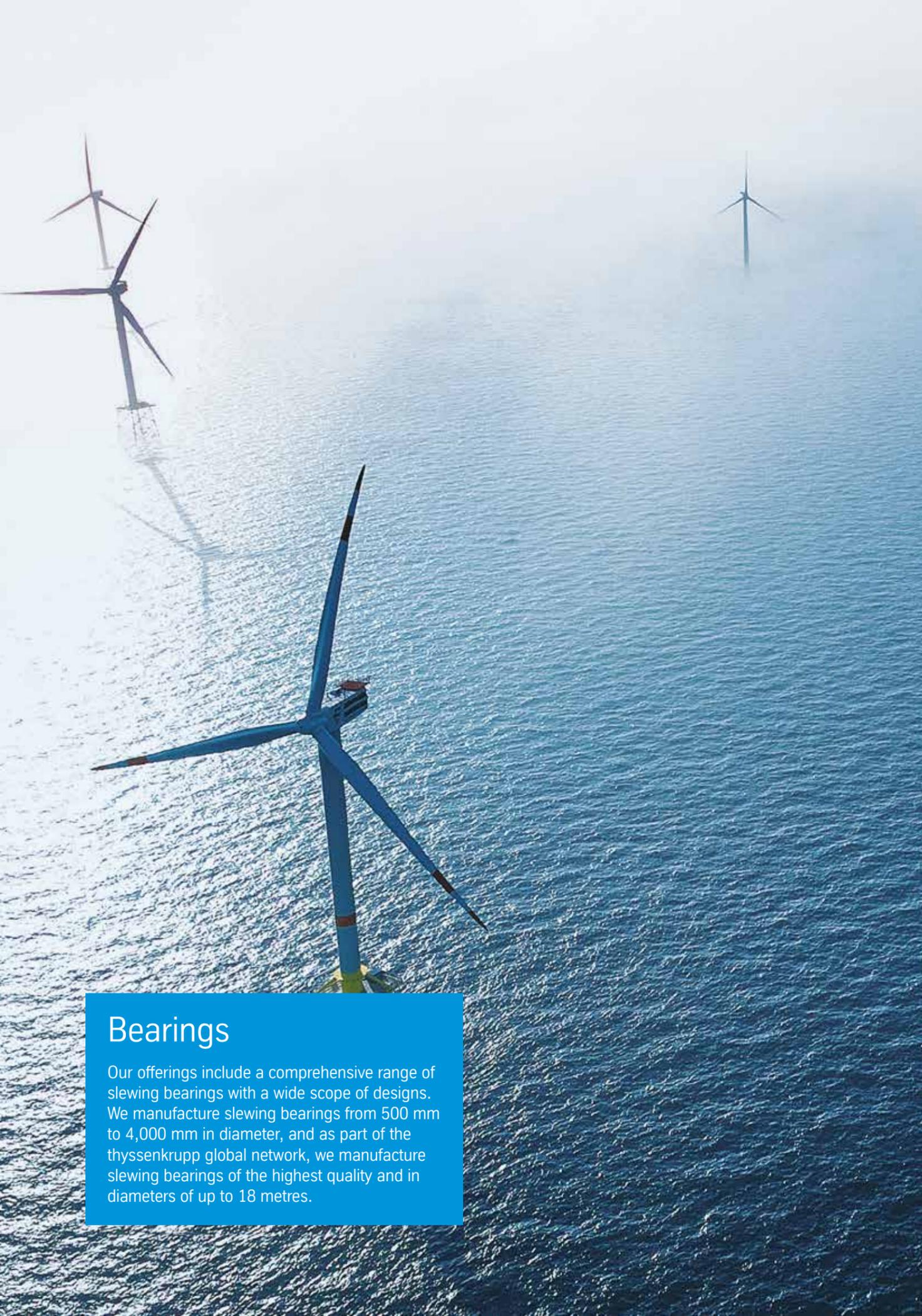
In industrial business, Components Technology supplies high-quality components for construction machinery, wind power plants, and many applications for general mechanical engineering, while in the automotive business we produce crankshafts.

The basis for this wide-ranging product spectrum is the business area's many years of experience with both innovative materials and massive forming processes.

Components Technology covers the entire value-added chain from the development and production of high-performance components and mechanical processing to the construction of highly complex systems.

## Engine Components

We produce machined crankshafts for mid-range diesel engines in medium and heavy commercial vehicle applications. Rough forgings are machined on CNC machines (turning, milling, drilling, induction hardening, grinding, lapping, etc.) and sold as ready-to-install crankshafts.



## Bearings

Our offerings include a comprehensive range of slewing bearings with a wide scope of designs. We manufacture slewing bearings from 500 mm to 4,000 mm in diameter, and as part of the thyssenkrupp global network, we manufacture slewing bearings of the highest quality and in diameters of up to 18 metres.



## Undercarriages

Leveraging our world-class manufacturing technology and know-how, we produce undercarriage systems and components for tracked earth-moving machinery, e.g., construction, mining, forestry and agricultural machinery, and excavators and earth movers, for the Indian market.

# Steel

Our Steel business area stands for innovations in steel, focusing on high-quality flat products, innovative coatings, and processing technologies for a wide variety of applications. Customer-specific material solutions and services associated with steel round off our range of services. We work internationally for a wide range of industries, including the auto and truck, engineering, special vehicle, household appliance, packaging, construction, and energy sectors.

From specialty steel, like non-grain-oriented and grain-oriented to downstream products like laminations, we offer a wide range of products with a host of advantages, like multiple choices of insulation coatings, nominal thickness, slit widths, and cut sheets in rectangular or parallelogram shapes.

We are the only manufacturer of grain-oriented steel in India.

# Materials Services

We are focused on the global distribution of materials and the provision of complex technical services for the production and manufacturing sectors. The wide range of products and services offered locally includes almost every type of material. A sophisticated warehouse, logistics, and an information logistics system with central and branch warehouses, provide the basis for rapid delivery with lowest-possible inventories. With 480 branches in 40 countries, we make sure that all our customers receive their materials not only on time, but in the exact sizes and shapes they need, whether as one-off items or in quantities of up to several million per year.

## Aerospace

Our product range includes all forms and types of aluminium, steel, titanium, and non-metallic materials, in the widest possible range of both national and aircraft manufacturers' proprietary specifications.

From vendor management and logistics to kitting and direct line feed, we can customise integrated solutions based on our proven systems and long-term experience.

## Industrial Solutions

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### thyssenkrupp Marine Systems (India)

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## Elevator Technology

### thyssenkrupp Elevator (India)

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## Components Technology

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## Materials Services

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### thyssenkrupp Materials Services (Liasion Office)

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## Steel

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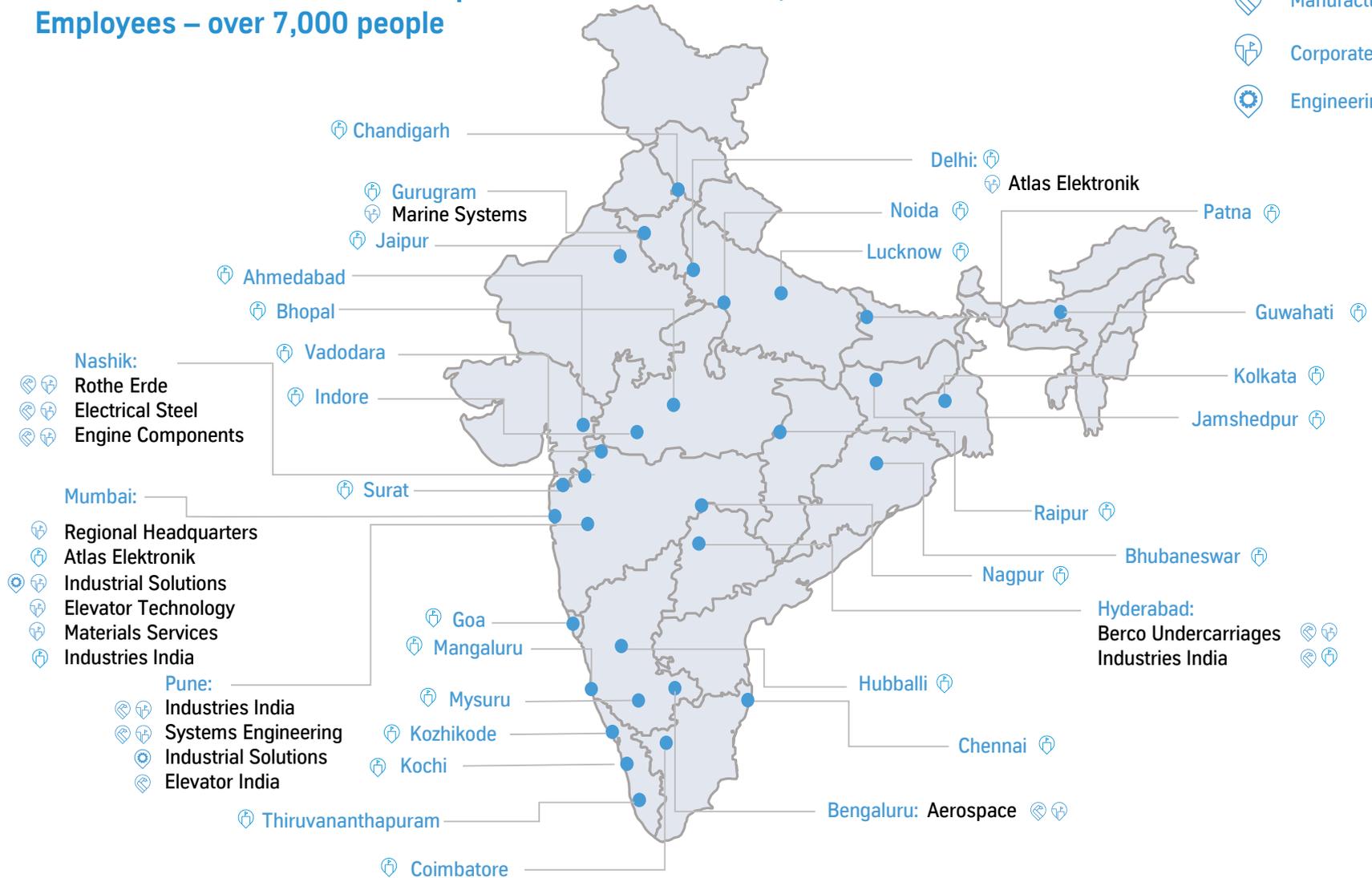
thyssenkrupp India

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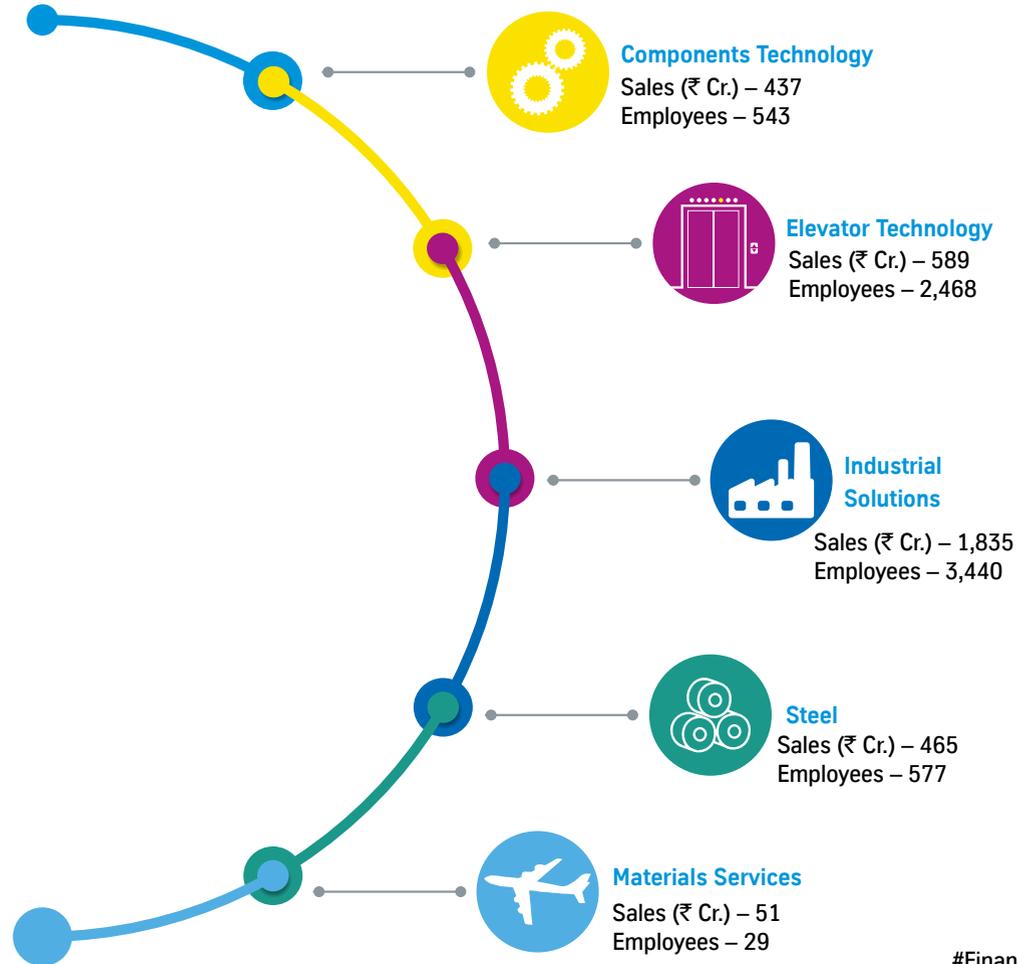
# thyssenkrupp's footprint in India grows

India turnover October 2016–September 2017 – over ₹ 3,378 Cr.  
Employees – over 7,000 people

-  Branch Office
-  Manufacturing Units
-  Corporate Office
-  Engineering Centre



## 5 diversified business areas



# Our Global Presence

Turnover: **42.97 Billion Euros**  
**158,000** people

