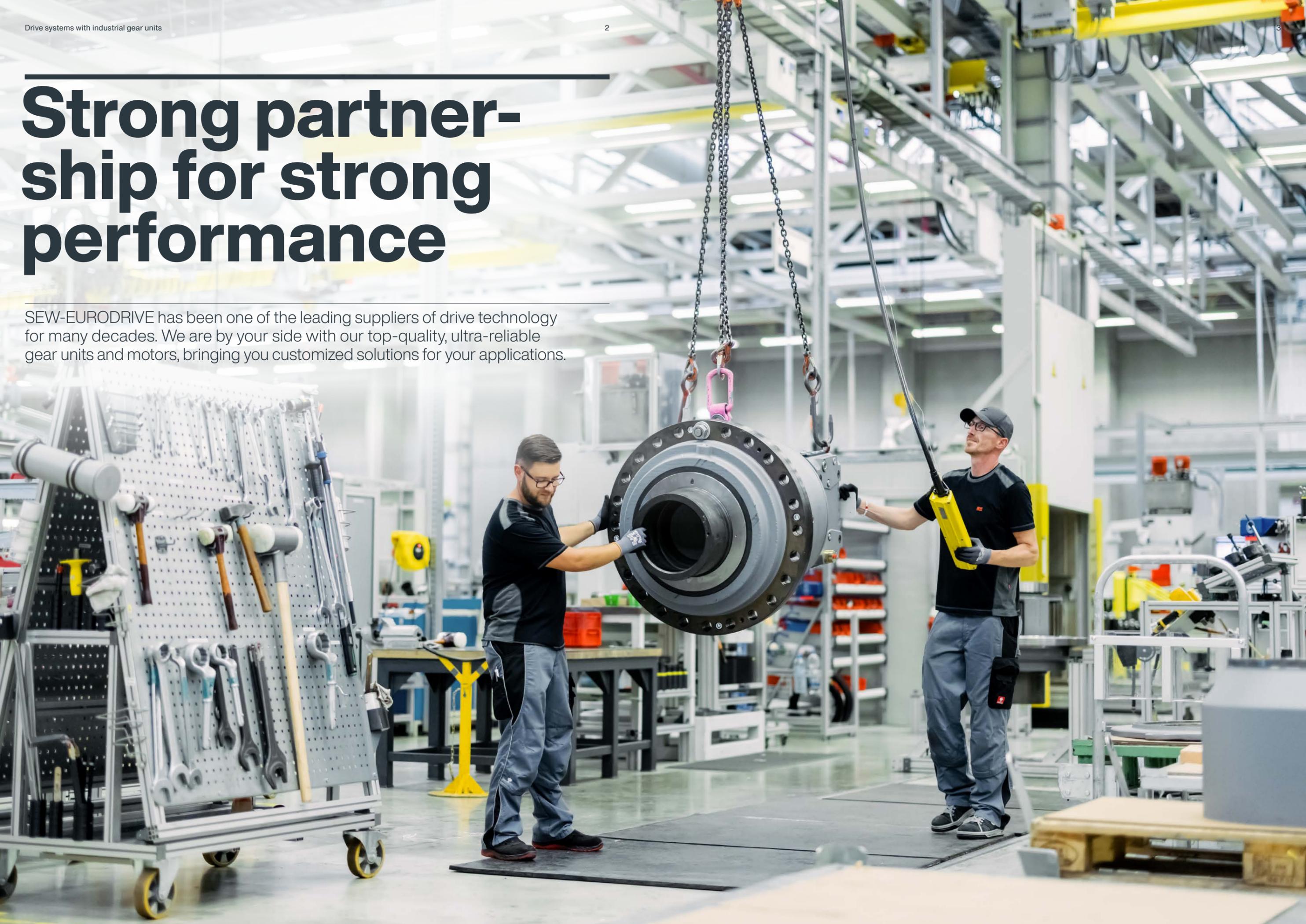


# Complete drive systems with large industrial gear units



# Strong partnership for strong performance

SEW-EURODRIVE has been one of the leading suppliers of drive technology for many decades. We are by your side with our top-quality, ultra-reliable gear units and motors, bringing you customized solutions for your applications.



# Maximum performance and reliability

## Powerful, compact, and future-proof

As your reliable partners, our engineering teams develop customized industrial gear units with impressive torques, and offer both compact drives and entire gear unit systems. With our innovative solutions and comprehensive expertise, we support you from the planning stage right through to the startup of your system. Together, we get the world moving.

### Global

We are proud of the very many successful large-scale projects we have delivered internationally. Thanks to our sites around the world, we can get to you quickly to offer advice, carry out installation, and provide services.

### Flexible

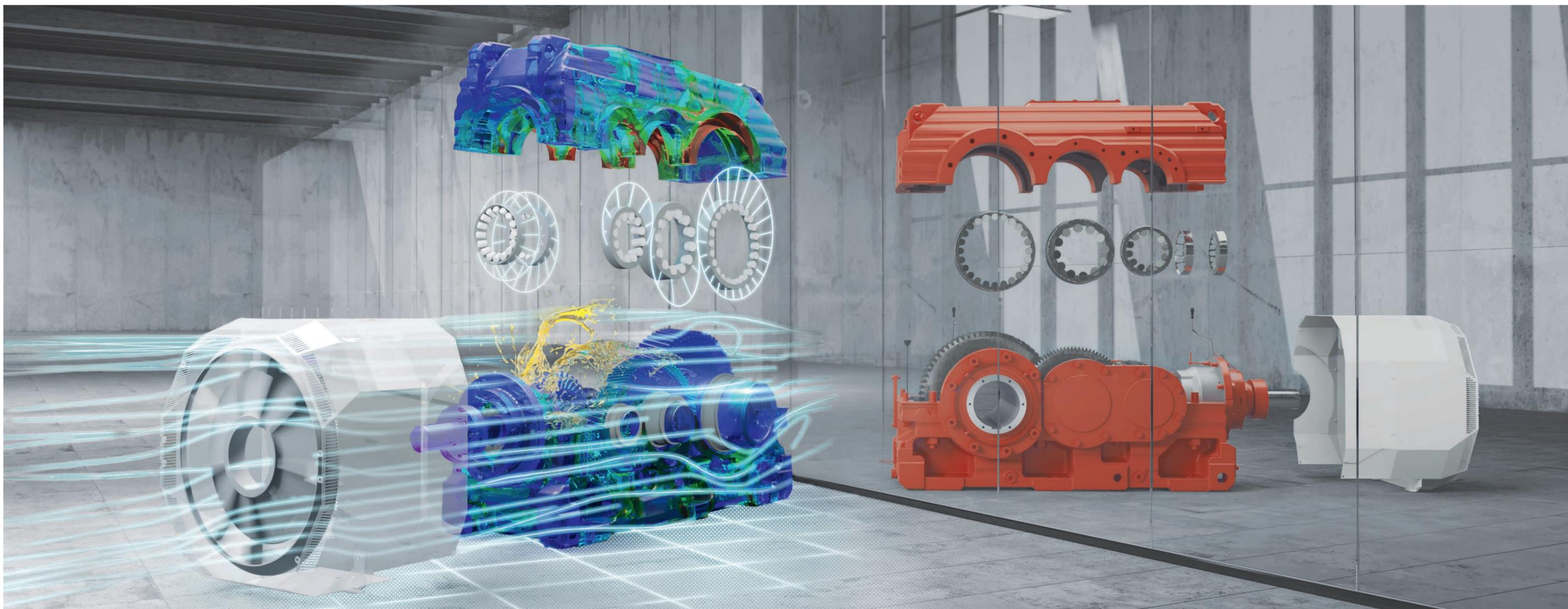
Our modular concept enables us to develop industrial gear unit systems that suit your requirements perfectly – all in next to no time. Our global network also means we can deliver these solutions very rapidly.

### Versatile

From logistics to cement production and from the steel industry to food processing – industrial gear units from SEW-EURODRIVE get all that and more moving.

### Reliable

Our range of services helps you ensure your drive technology runs efficiently and without interruption. We carry out inspection, maintenance, repair, and replacement work wherever and whenever it is required.



# Your specific requirements are understood

## Our focus on your needs

SEW-EURODRIVE is not just a supplier of drive systems. Our technologies have the potential to shape the future of many industries. Close proximity to our core sectors is the key to our innovative drive solutions.



Our robust gear units are perfectly coordinated to meet the specific requirements of various industries, from mining to cement production. However, our commitment here goes far beyond developing drive systems. We work side by side with you, exploring new horizons in partnership.

Our technologies, whether in the form of a standard solution or a bespoke concept, can change your industry. We bring expertise, passion, and innovation to the table so we can chart the future together.

## Mining

We provide drive solutions for heavy machinery and vehicles. Our robust gear units and systems provide a reliable means of supplying power in the demanding conditions in mining applications. Whether transporting ores or getting huge machines moving, our products are boosting efficiency worldwide.

## Port logistics

From container cranes to the transportation of bulk materials, our products deliver power and efficiency for smooth operations. We pour our experience into the development of customized solutions that meet the particular challenges involved in port logistics. For example, we optimize goods handling and cut operating costs.

## Metal

Drive systems are crucial for the efficient processing and production of metal products in the metal industry. Our customized solutions offer exceptional precision and power to ensure these demanding requirements can be met. Whether rolling, cutting, or forming, our gear units make sure production sequences run smoothly.

## Paper and pulp

In the paper and pulp industry, our drive systems deliver precision and efficiency for production processes. Whether wood processing, paper production, or pulp processing, our gear units boost productivity and optimize energy consumption.

## Cement

In the cement industry, drive systems are crucial for manufacturing cement and moving materials around. Our robust and dependable gear units have been specially designed for the harsh stresses and strains in cement works. Our drive systems maximize your plant efficiency while ensuring that crushers, mills, conveyor belts, and rotary kilns run efficiently.

# Customized drive technology for your vision

## Flexibility and quality for your projects

Our approach enables us to combine the best components from our standard gear units in a bespoke solution that is optimized for you and meets the highest quality standards.

This ensures the smooth running of your systems. Let's work together on creating your ideal solution and making your vision a reality.

In addition to our drives, we can also put together a drive package including system components such as couplings, brakes, and steelwork, especially for you. Using our modular system as a starting point, we can adapt to your requirements, no matter how demanding they are – regardless of whether we are working in a batch size of 1 or on a special series designed to suit your specific wishes.

## We supply everything from connectors through to output shafts

Drive solutions for smart, high-performance, and predictive industrial applications



Inverter technology



Cable technology



Motor



Gear unit



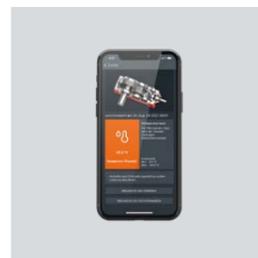
Cooling system



Coupling



Drive frame



Condition monitoring



# Efficiency, power, and dependability perfected

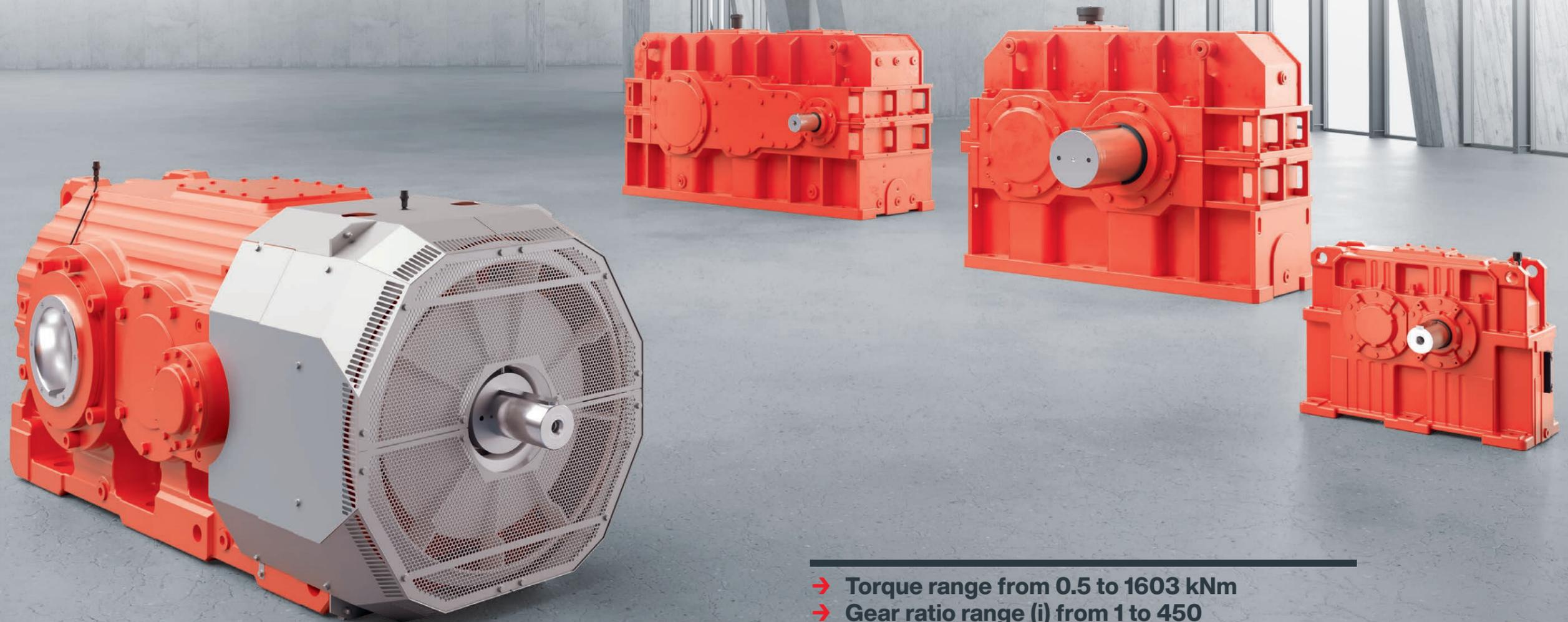
## Helical and bevel-helical gear units

Reliable drives are the backbone of any machine. Our industrial gear units set the standards for robustness, operational reliability, and maintainability.

Thanks to a wide range of sizes and gear ratios, they are the ideal choice for a whole variety of industries and applications. Our robust helical gear units and bevel-helical gear units drive your systems, delivering efficiency, power, and reliability.

### Features of our helical and bevel-helical gear units:

- Single-piece or split gear unit housings
- Finely stepped torque range and gear ratio range
- Universal mounting positions
- Modular technology
- Comprehensive package of options



- Torque range from 0.5 to 1603 kNm
- Gear ratio range (i) from 1 to 450
- Weight up to 24 000 kg

# Perfect control for your applications

## Planetary gear units

In the world of industrial motion control, you need solutions you can rely on. In lots of systems that are made up of a variety of machines, achieving exactly the right speeds and torques is crucial. The reliability of the drive components is decisive for their operation.

Our planetary gear units are powerful, dependable, and economical. This ensures you are ideally equipped for all applications. Experience the future of modularity and opt for the precision your applications need.

### Features of our planetary gear units:

- Transmission of high torques so large masses can be moved with power
- Space-saving and ideal for tight spaces
- Lightweight construction offers opportunities to optimize machine designs
- Upstream gearmotors in helical and bevel-helical versions can be combined



- Torque range from 2.3 to 9000 kNm
- Gear ratio range (i) from 61 to 10 700
- Weight up to 75 000 kg

# Flexible special gear units for tough requirements

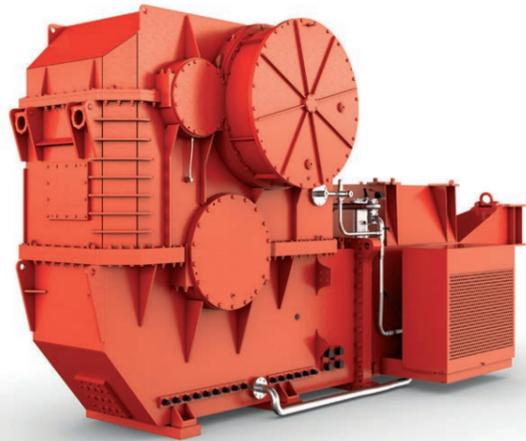
## Bespoke drives for challenging industrial applications

Extreme temperatures, lots of dust, liquid metal, and naked flames – industrial conditions don't get much harsher. Demanding applications require particularly robust and complex drive solutions.

We understand that standard solutions are not always enough. That is why we implement your ideas and meet your requirements with customized drive systems, whether that means making a minor adjustment or creating a whole new bespoke industrial gear unit. This approach gives you the flexibility and individuality you need for your applications.

Design to order (DTO) is when we apply our industry expertise, harnessing decades of experience and partnering with our global production plants, to bring you bespoke special solutions that fit your needs perfectly. From our modular system to one-off industrial gear units, we offer 100% customized solutions.

### Bucket wheel drive



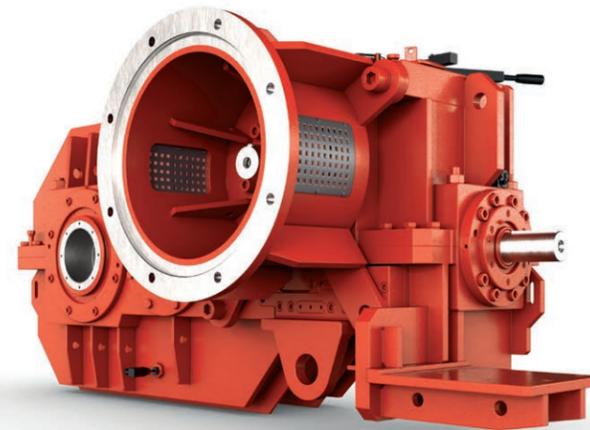
Extremely robust and compact special gear unit for reliably and continuously excavating enormous volumes of material around the clock.

### Roller plant gear unit



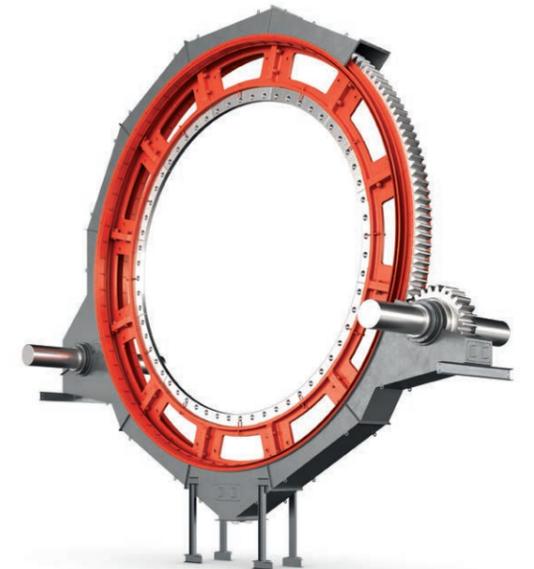
Roller plants in the steel industry need exceptionally robust and complex special gear units (with one or more drive shafts) that can withstand especially high thermal and mechanical loads, including during continuous operation.

### Switchable hoist drive



If one motor in this crane hoist fails, gear units spring into action that can still be switched when the motor is at standstill. The gear ratio is doubled and, thanks to the emergency lifting mechanism, the container can be lowered to the ground safely.

### Segmented girth gears



These are crucial for driving large, rotating systems such as dryers, rotary kilns, and horizontal mills. SEW-EURODRIVE offers a flexible concept that makes it easier to manufacture, transport, and install these girth gears.

# Hand-crafted solutions, digital precision

In our offices, we don't merely create standard drives – we also develop customized solutions to meet your precise needs.

As experts in customized design, our design engineers make design modifications and adapt the gear unit design to suit your specific customer application perfectly.

Thanks to this approach, we offer a unique combination of tried-and-tested standard gear units and 100% customized solutions.

The result is a perfect solution tailored precisely to your needs.

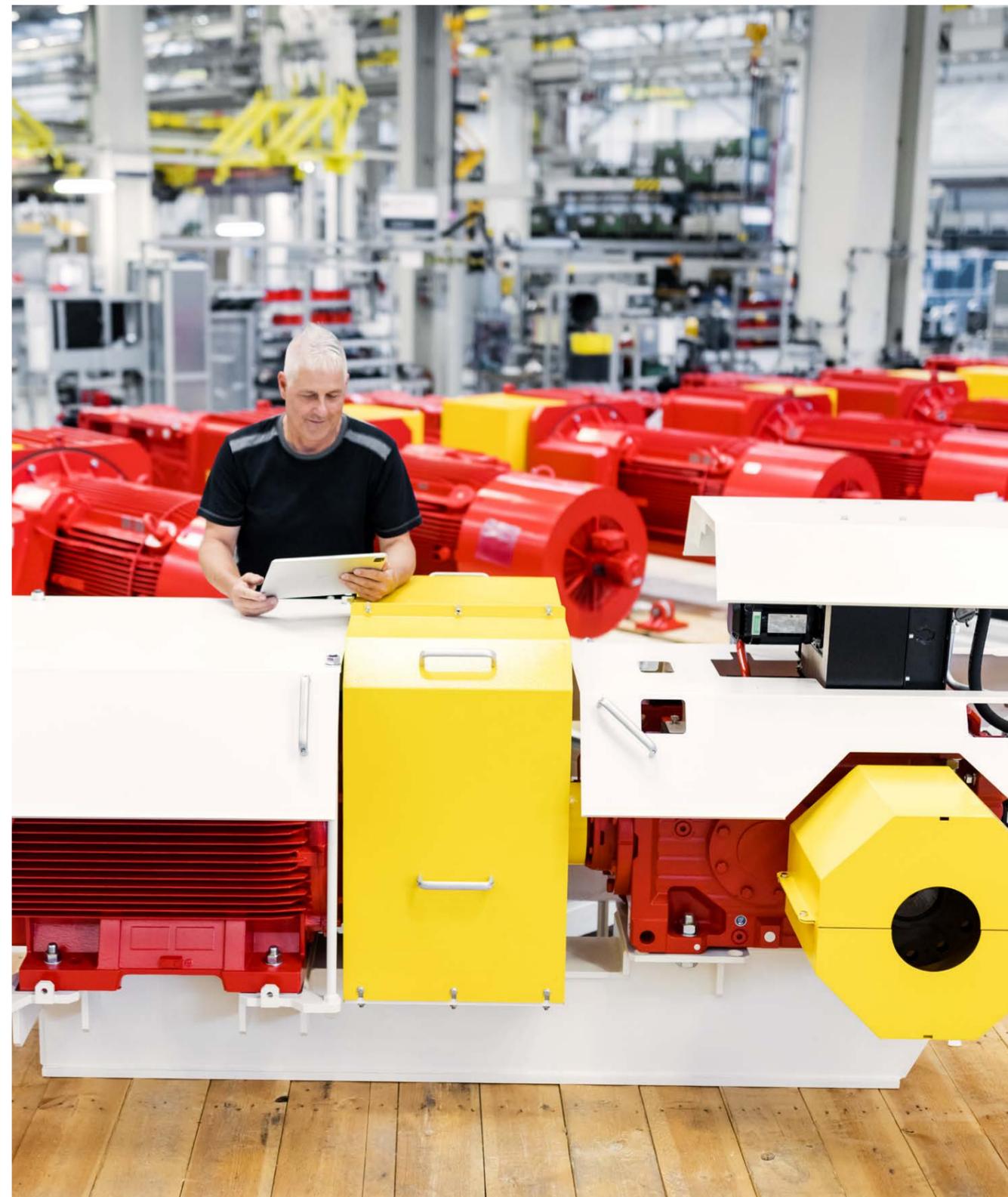
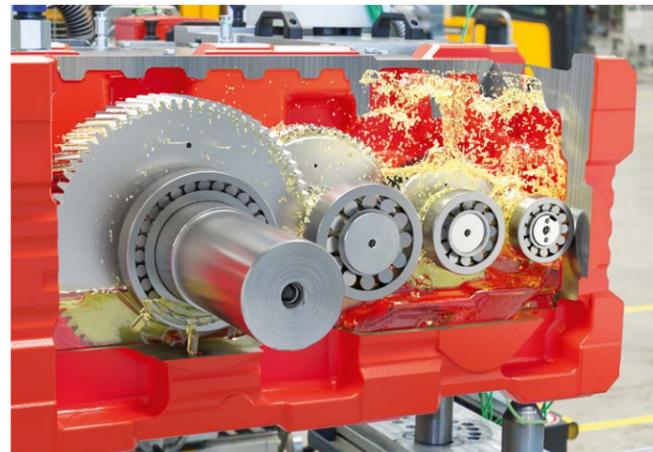
## Digital precision along the value creation chain

In this era of digitalization, we go a step further. Our digital processes mean that the motor, gear unit, coupling, brake, and steelwork can be perfectly coordinated, but that's not all – they also provide a transparent overview of the entire order process, including within the different departments of the plant.

Our teams can track the smooth workflow of your customized solution, from design through to production.

What's more, our approach isn't restricted to our own offices – we also incorporate our suppliers. Not only does this lead to an efficient production flow, but it also promotes partnership and collaboration for optimal results.

At SEW-EURODRIVE, efficiency means both advanced technology and working together to create seamless solutions.

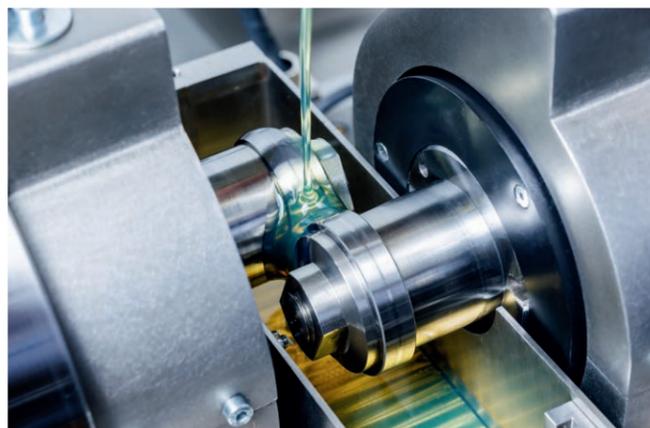
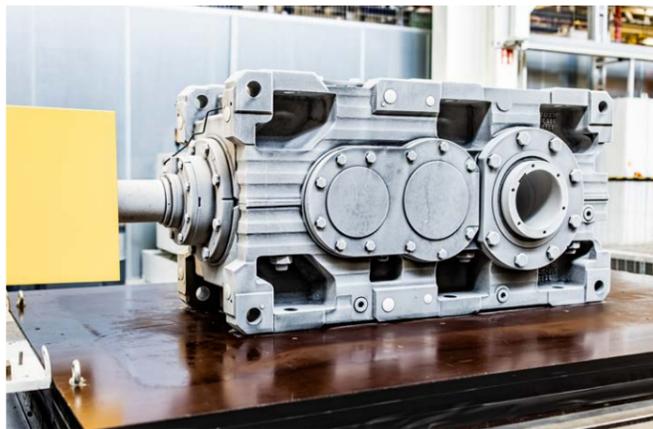


# Innovation and excellence in the heart of industrial gear units

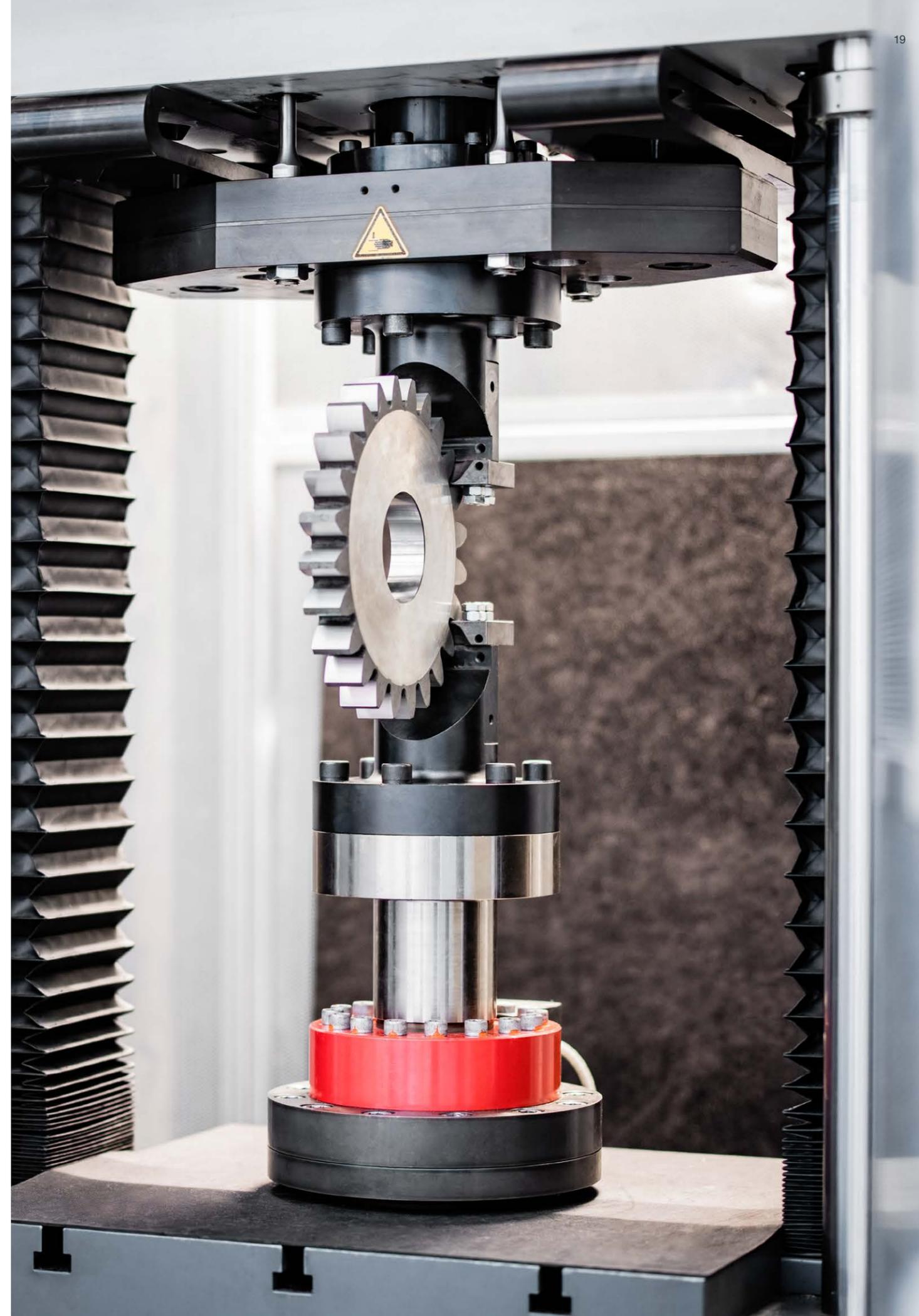
## Our wide-ranging collection of test stands – your future defined

Our commitment to innovation and excellence runs through every aspect of our work on industrial gear units. We have no doubt that our technologies and products have the potential to revolutionize industry and change the world.

We are playing an active role in shaping the future of industrial gear units. Our diverse collection of test stands enables us to research opportunities on a daily basis and ensure that our products meet the highest quality standards. Discover a world where innovation and peak performance have no limits.



Whether low-temperature tests, thermal investigations, or the fundamentals of oil and bearings – we delve into these topics, determined to achieve optimum results.

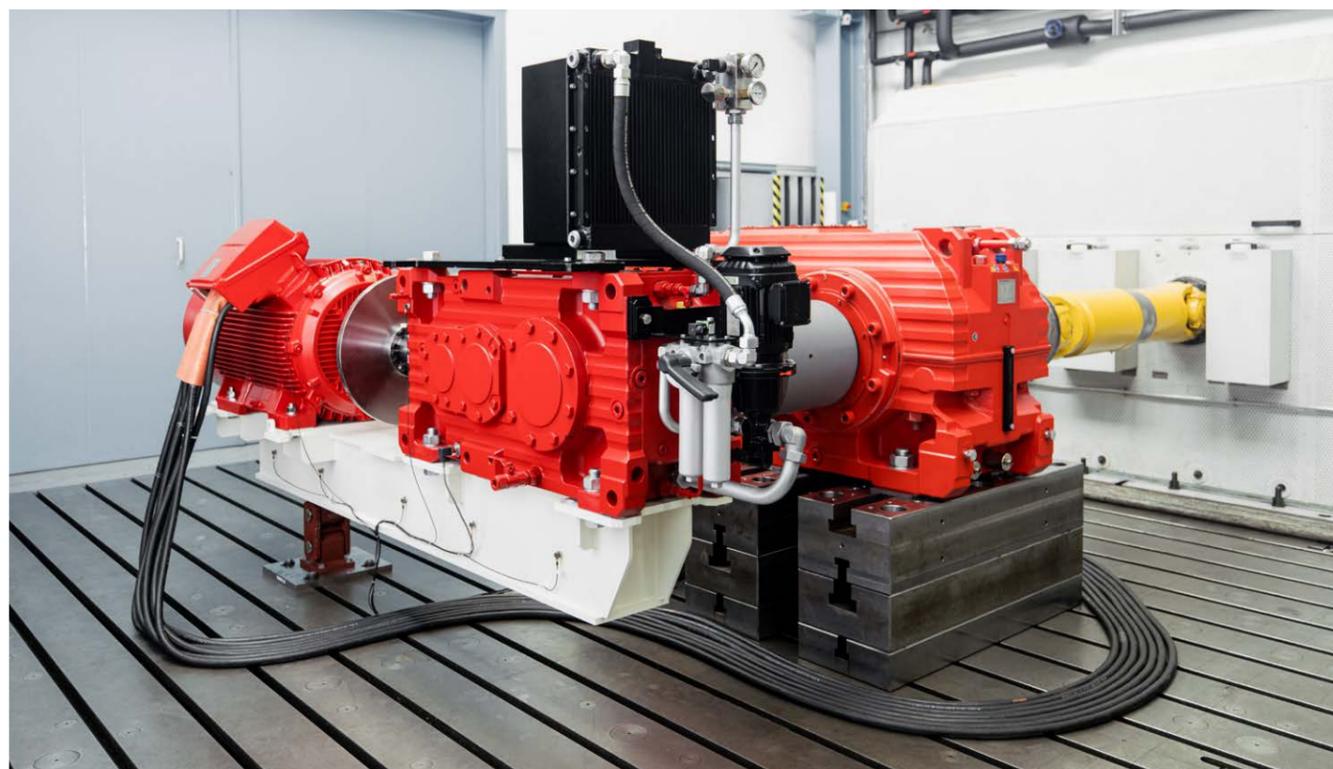


# Services for long-term system stability and efficiency

## Fully comprehensive carefree service package on delivery

Discover the additional benefits that we include with the delivery of your product. From extensive test stand testing to an exclusive delivery time program, we offer you a complete solution that ensures smooth operations. What's more, with our SEW-EURODRIVE lubricant and an extended warranty, we ensure top quality and durability for your systems.

1



## Test stand

Our test stand capacities give you the opportunity to check your systems in advance and ensure that they meet your requirements. What's more, you can do that with power ratings up to 1200 kW.

## Delivery time program Industrial gear units to go\*

Our delivery time program makes extremely short delivery times feasible for both standard drives and drive packages with special options.

\* Not available in all regions

## Lubricant from SEW-EURODRIVE

Our high-quality GearOil by SEW-EURODRIVE ensures optimum lubrication for your machines and systems in order to extend their service life.

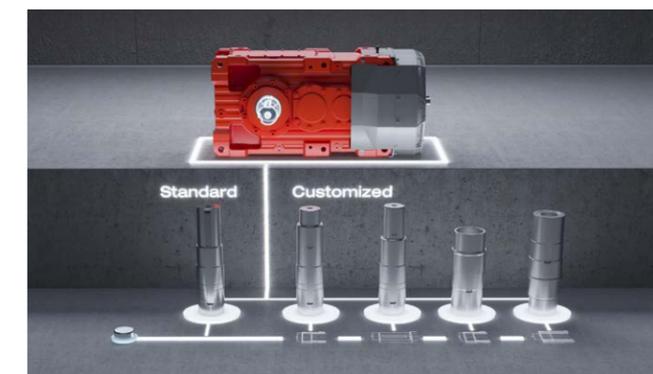
## +24-month extended warranty for industrial gear units\*

Extend the statutory product warranty for industrial gear units by a further 24 months.

2



3



- 1 Testing – comprehensive tests and quality assurance as part of a process
- 2 GearOil by SEW-EURODRIVE
- 3 Industrial gear units available in 1, 5, or 15 working days
- 4 Option to extend the product warranty by 24 months



4

# Keep everything running smoothly with our services

## On-site service

Welcome to our on-site service, which covers maintenance and repairs of your system directly at your premises. With our focus on retrofit options, a reliable Spare Parts Service, and predictive maintenance, we ensure that your machines and systems are always in top form. You can rely on us to identify potential problems early on and to carry out repairs efficiently, thereby ensuring that your operations can continue with no interruptions.

## Retrofit

If you would like to modernize your systems, we can provide customized solutions that will meet your requirements in terms of installation space, energy efficiency, and maintainability.

## Spare Parts Service

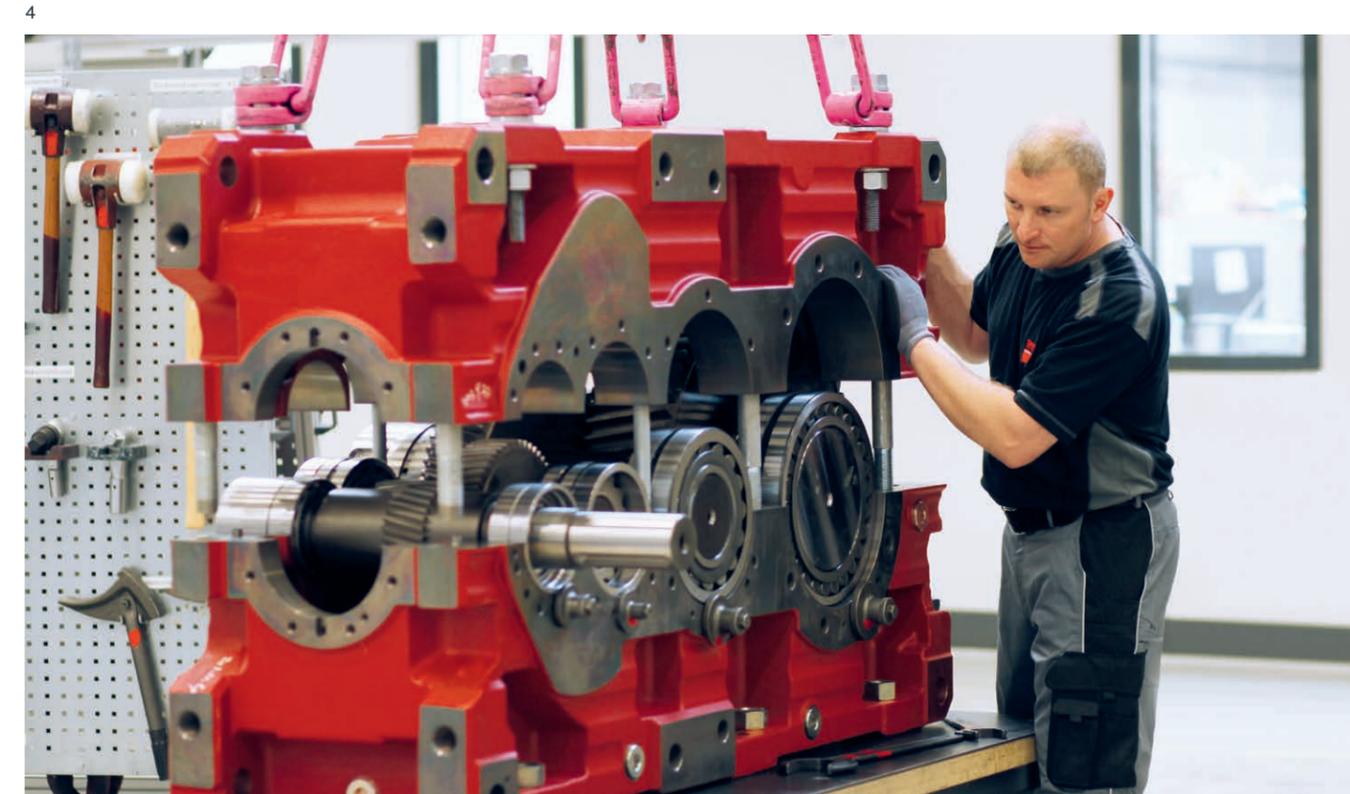
With our Spare Parts Service, we dispatch spare parts on the very day they are ordered in 95% of cases. We ensure immediate availability and provision of original SEW-EURODRIVE spare parts. This can also be done through the Online Support customer portal.

## Predictive maintenance

DriveRadar® for industrial gear units is the intelligent condition-monitoring system that tracks the condition of your gear units, records data digitally, evaluates this data in automated processes, and issues forecasts to support maintenance.

## Repairs

SEW-EURODRIVE offers new-value repairs with a 24-month warranty for defects covering the entire drive, replaces faulty parts as part of a functional repair, and when called on to carry out emergency repairs, does only what is absolutely essential to get everything back up and running fast.



- 1 Retrofit – an update to the latest drive technology
- 2 Spare Parts Service – fast delivery of spare parts
- 3 DriveRadar® – innovative monitoring technology
- 4 Repairs – professional repair services

3

# The backbone of our quality and service

The success of our technological developments is closely tied to our worldwide presence. That is how we ensure everything runs smoothly from the planning and production of our industrial gear units through to their post-installation servicing.

## Our overriding objective:

To always offer you the most innovative products and the best support, no matter where you are based. Regardless of where your system is, there will be an SEW-EURODRIVE site nearby.

Our network stretches over almost every continent. That means you know you can reach us easily and you can rely on us responding fast.

## Production

Our production and assembly operations are decentralized and take place at lots of locations worldwide. This means we can support you anytime, anywhere. Whether complex machines or bespoke solutions, we can meet your requirements precisely and efficiently.

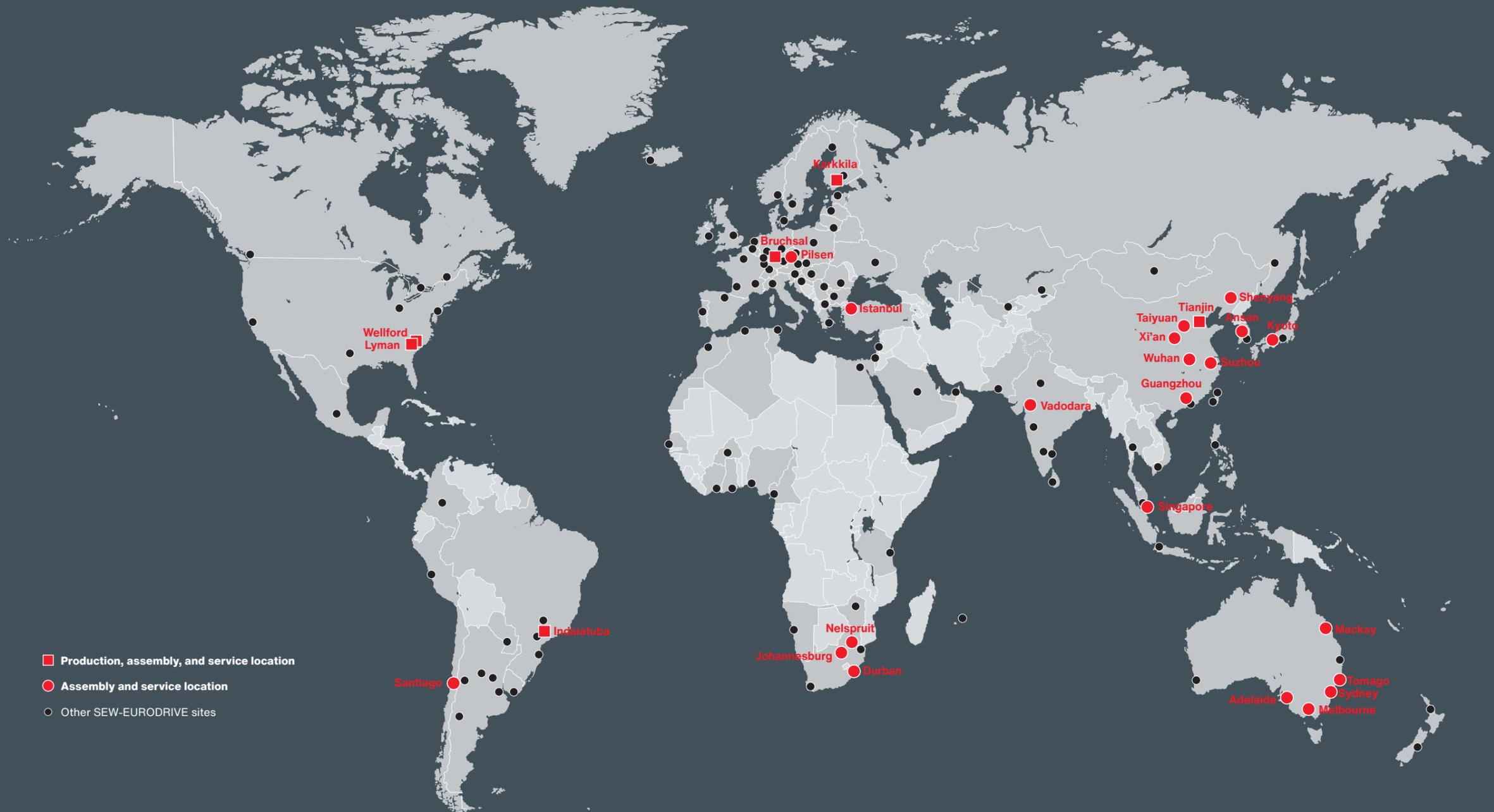
## Sales

Our sales companies don't just help us nurture a technological partnership with you – we are also deeply anchored in your region and are therefore able to find the ideal response for your local needs, while at the same time offering you solutions based on global standards.

## Service

Our service centers are never far away, which is why you can rely on getting rapid assistance from us when it comes to maintenance and repairs. Our fully trained engineers are on hand to help you with their technical expertise, optimizing the functionality of your products and minimizing downtime.

We are always close by.



# Peak performance on the Zugspitze cable car system

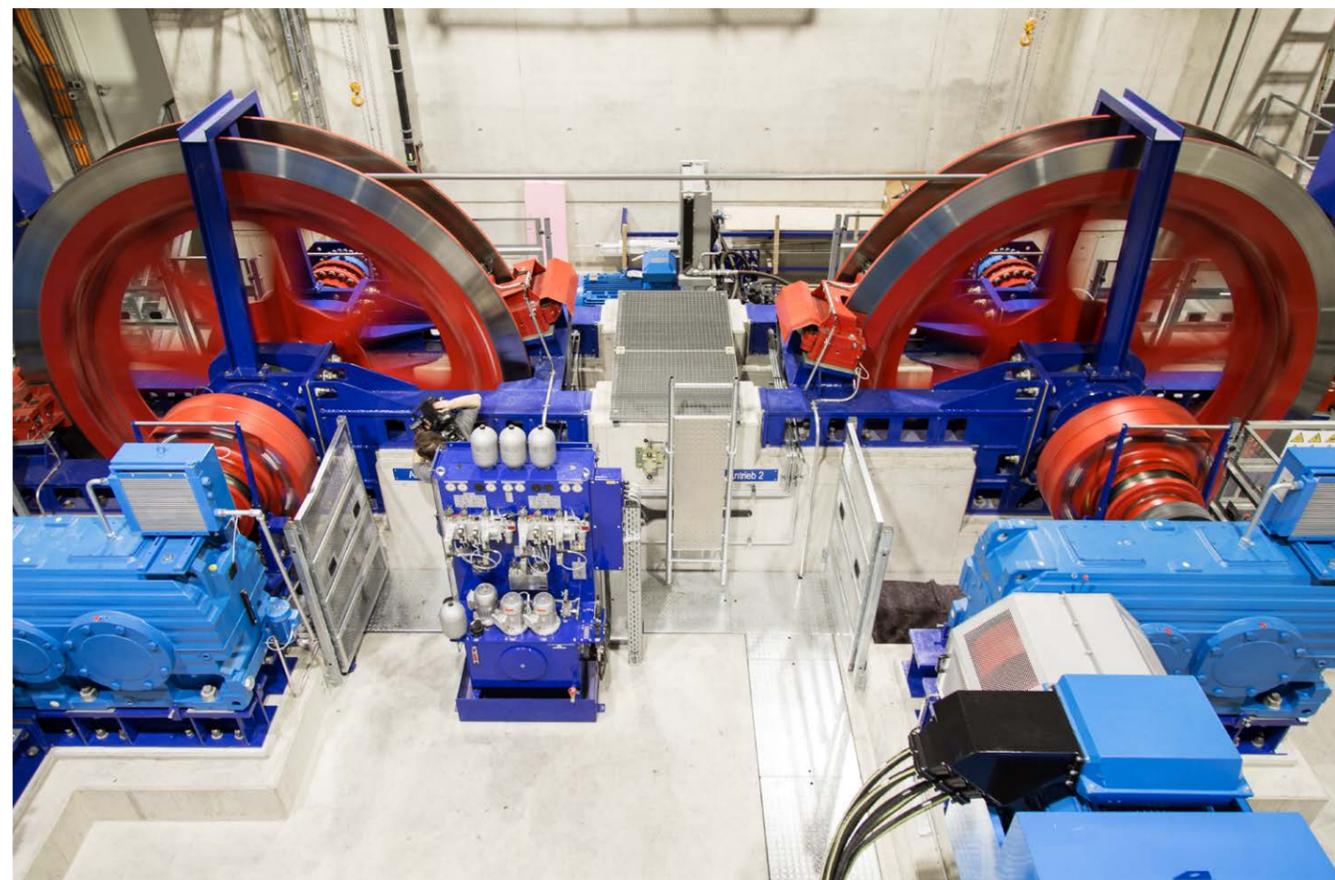
## The cable car project

The new cable car system on Germany's highest mountain, Zugspitze, is an unprecedented project. Operational since December 2017, the aerial cableway transports up to 580 visitors per hour to the peak. The immense drive power for the aerial cableway, which is extremely steep in places, comes from SEW-EURODRIVE.

The haulage cable is driven by two X.e series industrial gear units and heaves the cable car to a height of 2943 m with the power of a full-blown diesel locomotive. During its ascent, the cable car travels at a gradient of up to 104%.

To achieve that, the drives need to be extremely powerful and absolutely reliable – including in the event of an emergency. We successfully completed this challenging project in collaboration with the world-renowned cable car specialists from Doppelmayr/Garaventa.

1



2

3



- 1 The cable car glides up toward the Zugspitze, surrounded by a breathtaking mountainous landscape.
- 2 The machine room in the base station houses dependable components for optimum performance: cable drum, brake, gear unit, cooling system, coupling to the input and output side, and motors.
- 3 The machine room in the summit station houses the auxiliary drive.

# A powerful solution for sugar cane processing

## The industrial gear unit with the highest torque for roller pressing

Sugar cane processing plants in Brazil typically serve an area stretching between 50 and 100 kilometers around the plant, depending on the cultivation areas and transport infrastructure.

Presses play a key role in separating the valuable raw sugar cane juice from the fibers. Roller mills are among the most common methods used, but require enormous amounts of energy.

Our solution is to use a **9-million-Nm gear unit** that can withstand the mechanical loads associated with sugar cane processing. In addition to the high-performance transmission of high torques, we also prioritize efficiency and operational reliability. An optimum gear unit reduces energy consumption and minimizes idling times thanks to preventive maintenance, which all helps to improve sugar production overall.

1



2

At SEW-EURODRIVE, we don't just develop high-torque solutions – we also create sustainable and reliable drives to meet the complex requirements associated with sugar cane processing.

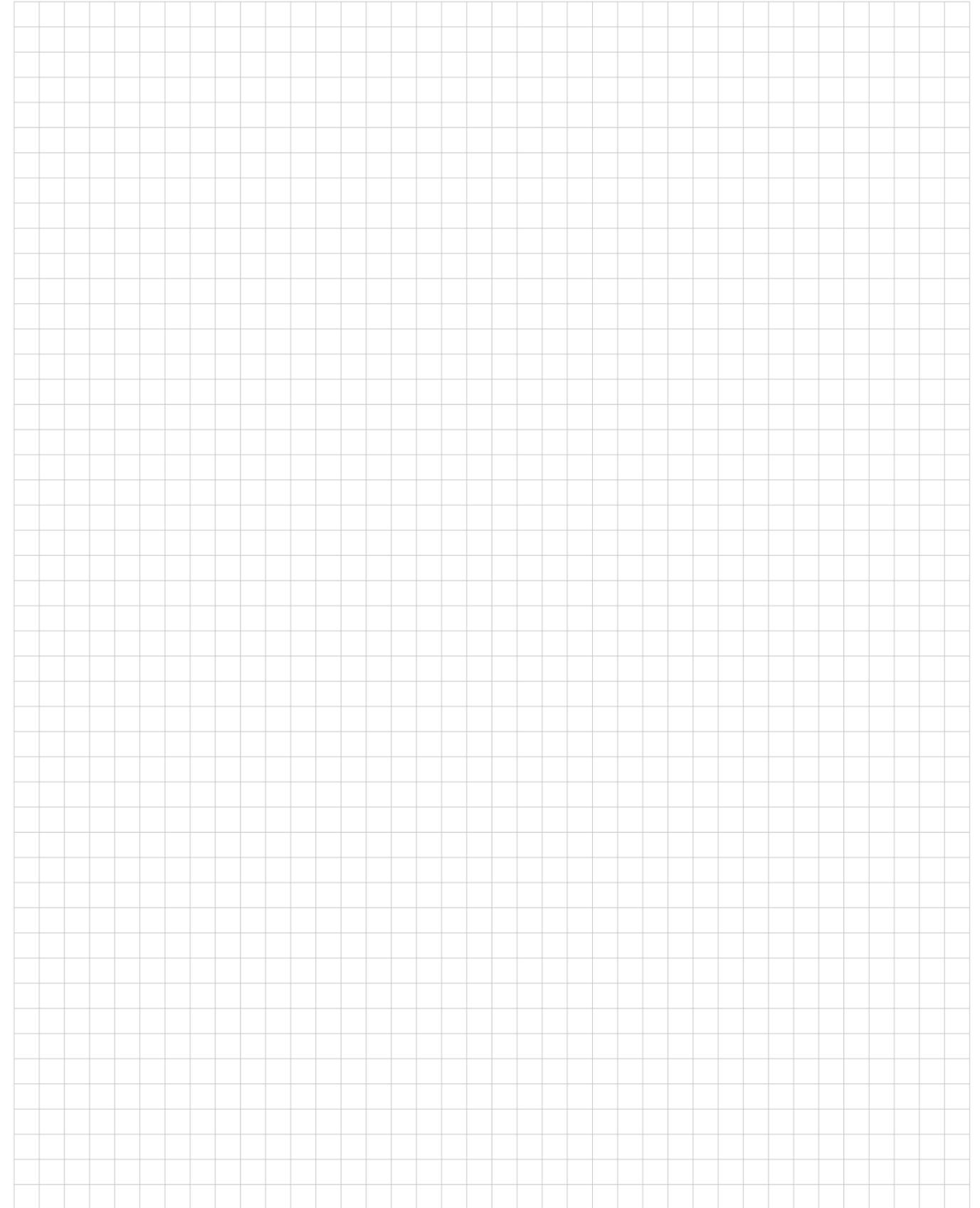
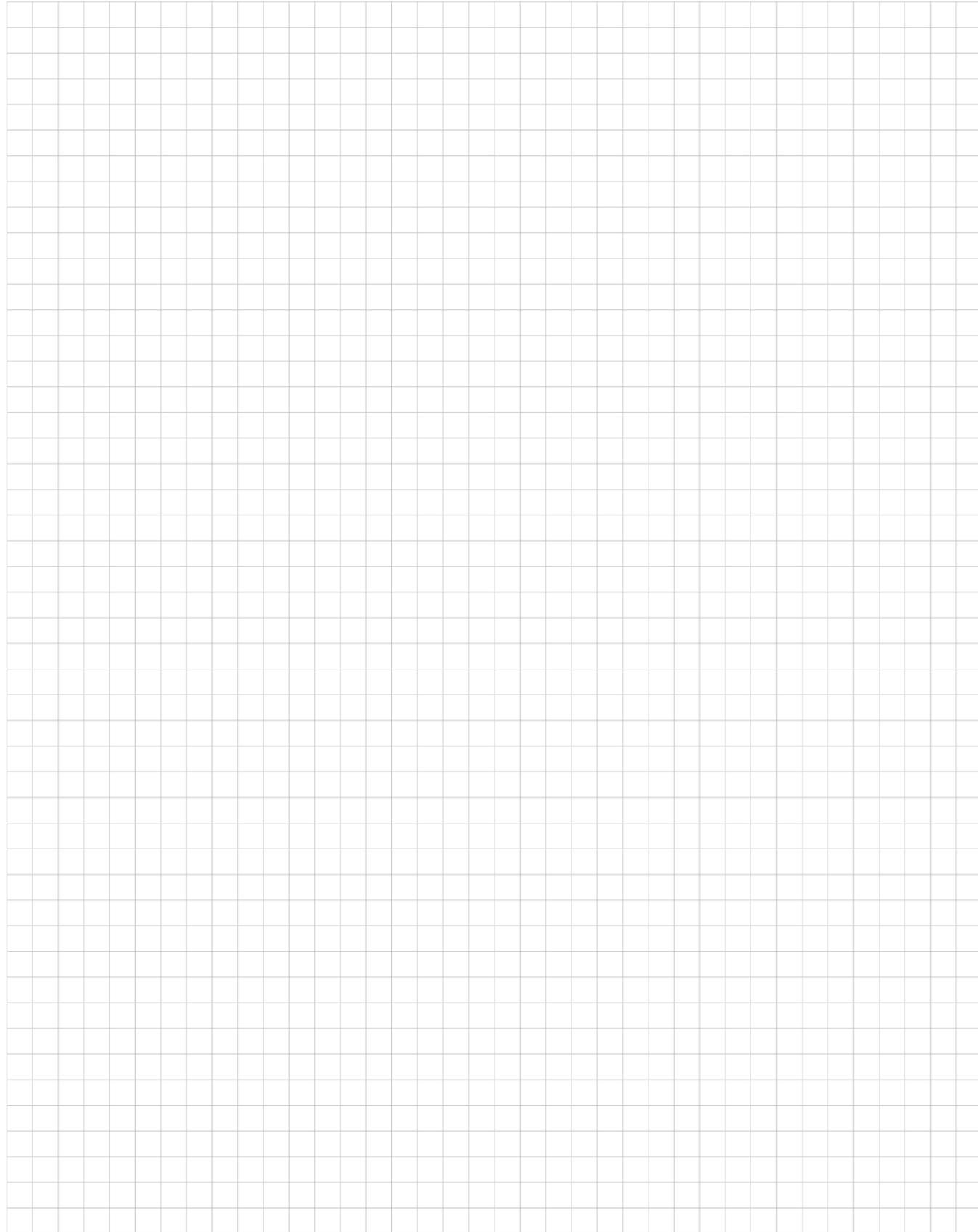
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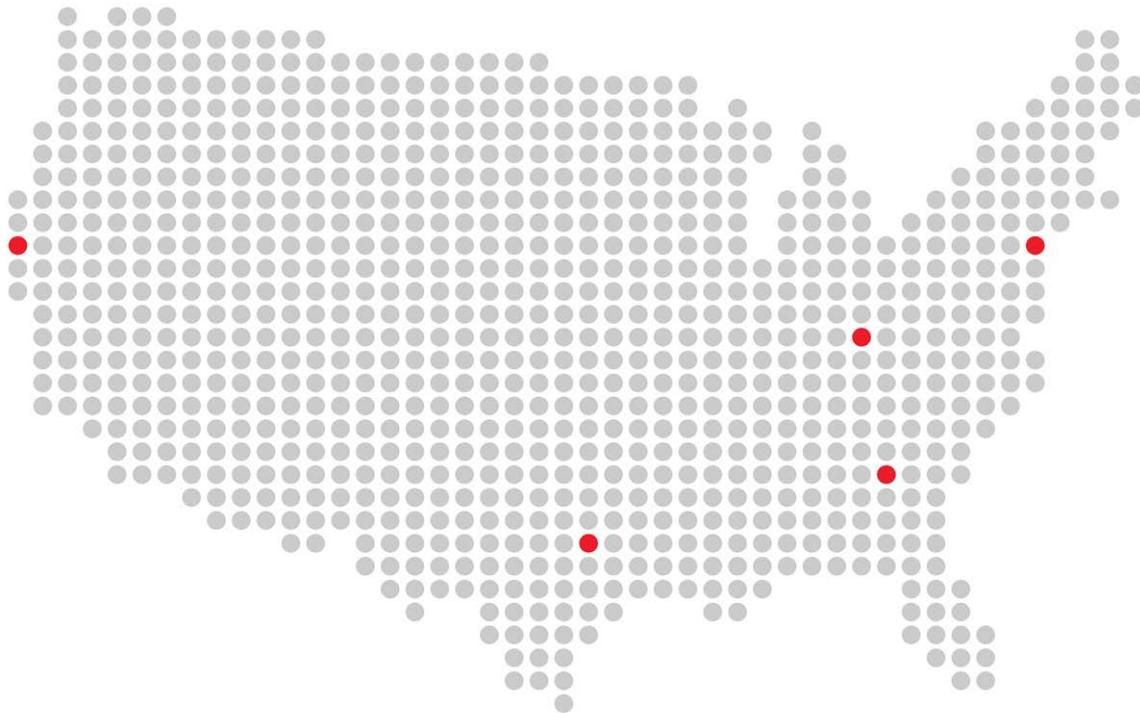


- 1 Overview of a sugar cane processing plant
- 2 Planetary gear unit from the XP series with a nominal torque of 9 million Nm
- 3 Other drives at the plant, such as the Generation X.e

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## Notes





## U.S. locations

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### U.S. Headquarters/Southeast Region

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### Western Region

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