



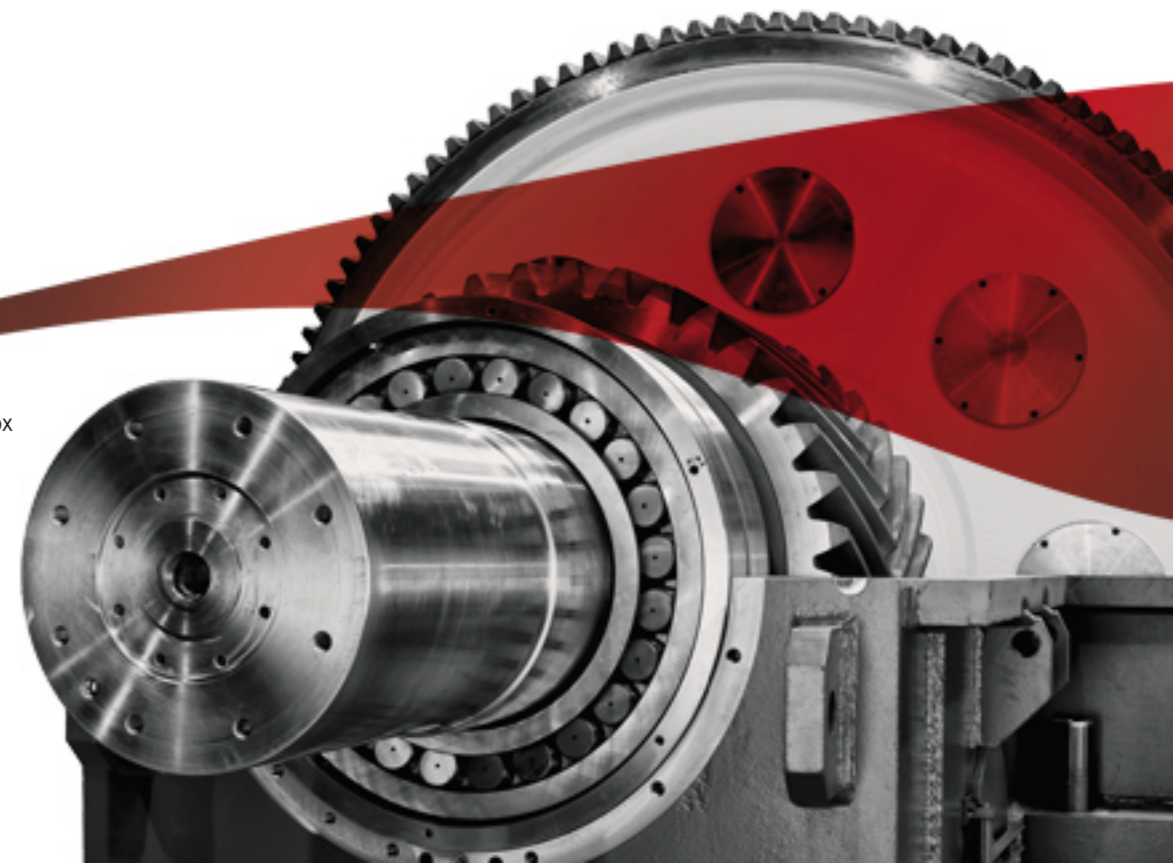
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**[pekrun]**

Special gearboxes of the highest quality

# Special gearboxes of the highest quality

Pinion stand gearbox



# pekrun's range of services

**Program** As a manufacturer of special gearboxes, there are actually no gear units that we do not build. Therefore, we have clearly structured our program so you'll be able to navigate your way through it with ease. It is divided into five categories: Turbo gearboxes, Mill gearboxes, Rolling mill gearboxes, Materials handling gearboxes and Special gearboxes.

**Service** No gearbox without service. Meticulous maintenance ensures that the gearbox will have a long and reliable service life. Beginning already in the design phase, pekrun gearboxes are configured for low maintenance outlay. Even though our gearboxes rarely require service, you can be assured of expert assistance from our service department. Furthermore, our service department is available for servicing gearboxes from other manufacturers, as well.

**Know How-Transfer** pekrun can look back on a history of over 110 years. Thanks to this experience, we have accumulated a high degree of knowledge about gearboxes. We share this knowledge with our partners, but also make it available to new prospects on a contractual basis. In the meantime, we are able to look back on an array of successful partnerships and innovative synergies. Please feel free to contact us, we look forward to sharing new horizons with you.



Our company headquarters in Iserlohn, pekrun's principle location since 1949, was restructured and received a new look in 2010.



The feather characteristics of the blue and yellow Macaws (*Ara ararauna*)

# Individual.

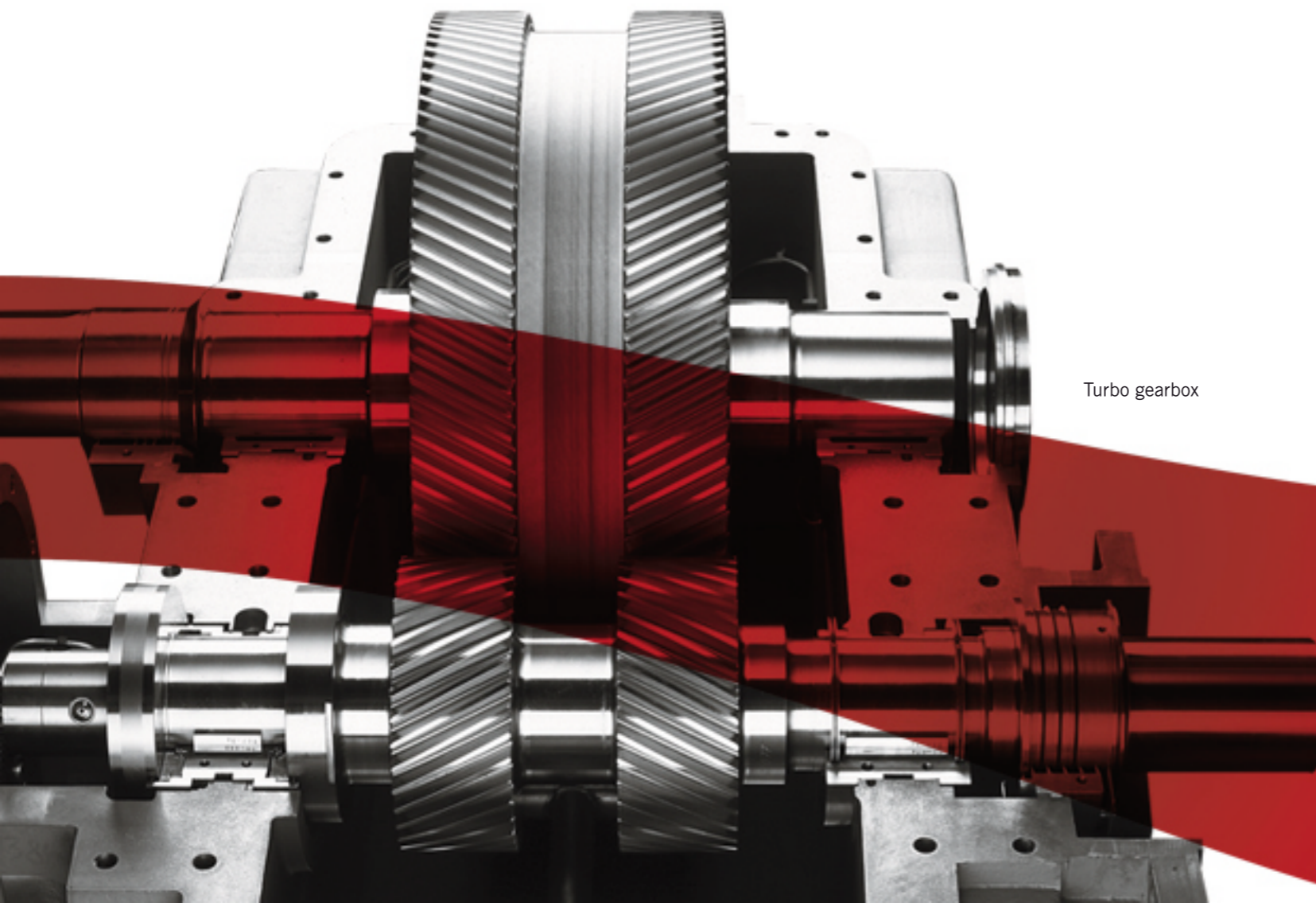
Turbo gearboxes  
Mill gearboxes  
Rolling mill gearboxes  
Materials handling gearboxes  
Special gearboxes

From the viewpoint of a layman, a macaw may be merely a bird with lots of rings under its eyes. Yet, this feather line feature denotes the individual distinguishing characteristic of each macaw. It allows this exceptionally loyal animal to identify its own species, even among flocks of oftentimes over 100 birds. Similarly, most gearboxes could easily be mistaken for another. Oftentimes, it is only the nuances that make the difference between a good and a very good gearbox. Please take a careful look at our collection of pekrun gearboxes; it's well worth the effort.



# Turbo gearboxes

pekrun Turbo gearboxes are used around the world in generators, turbines, boiler feed pumps, blowers and compressors, as well as in loading pumps on tanker vessels. They are configured for high and extremely high turning speed while operating with an absolute minimum of powerloss. We supply our customers with 1- and 2-stage Turbo gearboxes.



Turbo gearbox

## Characteristics

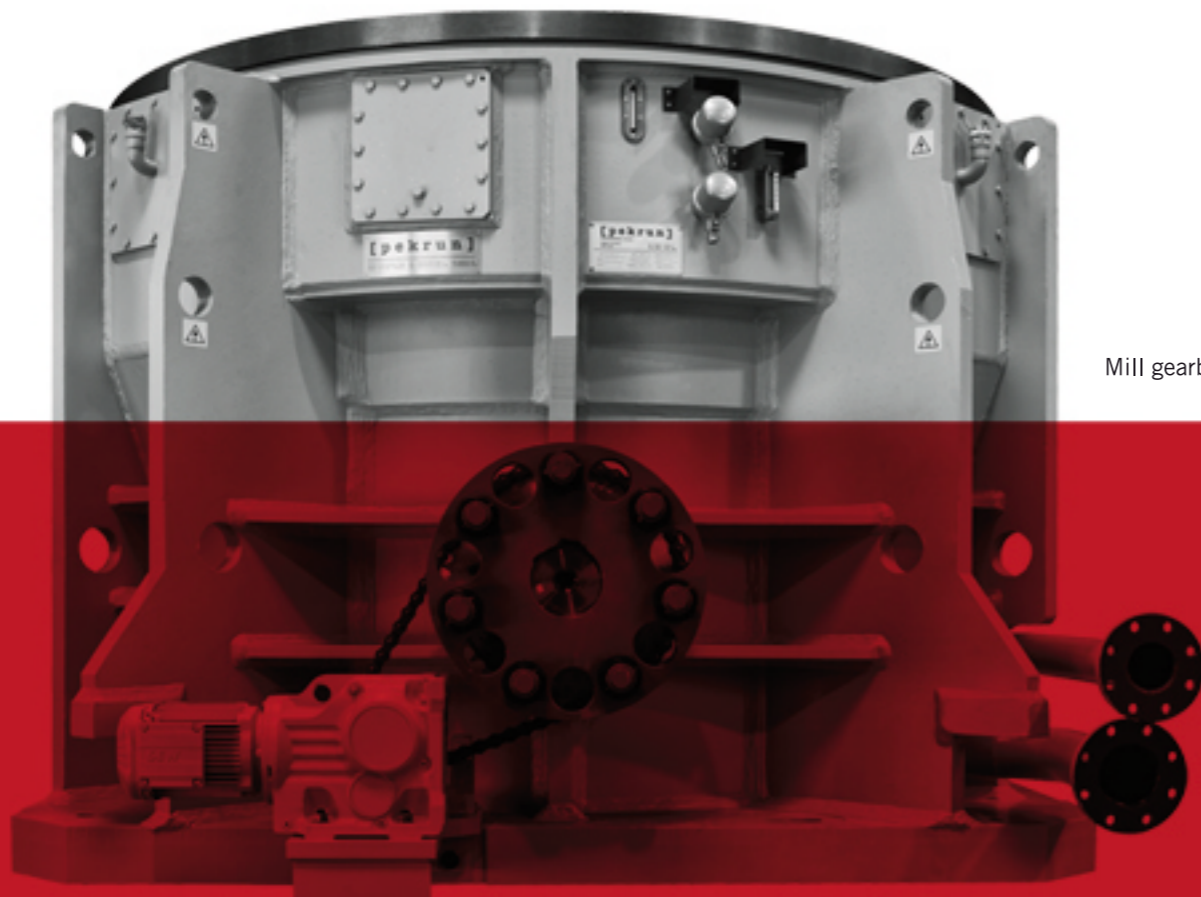
Turning speed max. 30.000 U/min

Power max. 30.000 kW

Peripheral speed max. 145 m/s

# Mill gearboxes

We supply our customers with Mill gearboxes in bevel-spur gear or planetary gear models, depending on the focus of the main task. pekrun Mill gearboxes have a unit weight of up to 150 tons, yet are of extremely compact design and are used in vertical bowl mills and ball mills for grinding cement, plaster, coal, lime, burnt lime, raw phosphate and other ground materials.



Mill gearbox

## Characteristics

Torque max. 1200 kNm

Static axial load max. 10.000 kN

Dynamic axial load max. 25.000 kN



# Rolling mill gearboxes

Rolling mill gearboxes are reliable gear units for rolling trains with slabs up to 300 mm as well as straighteners with belt thicknesses of up to 60 mm. They are characterized by a high degree of reliability due to a particularly stable, thick-walled and robust design. They are used in pilger-, ring-, pipe-, cold- and hot rolling mill trains, as well as in cross-rolling mill trains, and provide reliable service in pipe welding plants. Planetary superimposition gearboxes are used in roughing and reducing roll plants with unit weights of up to 100 tons.



Straightener gearbox

## Characteristics

Torque max. 1500 kNm

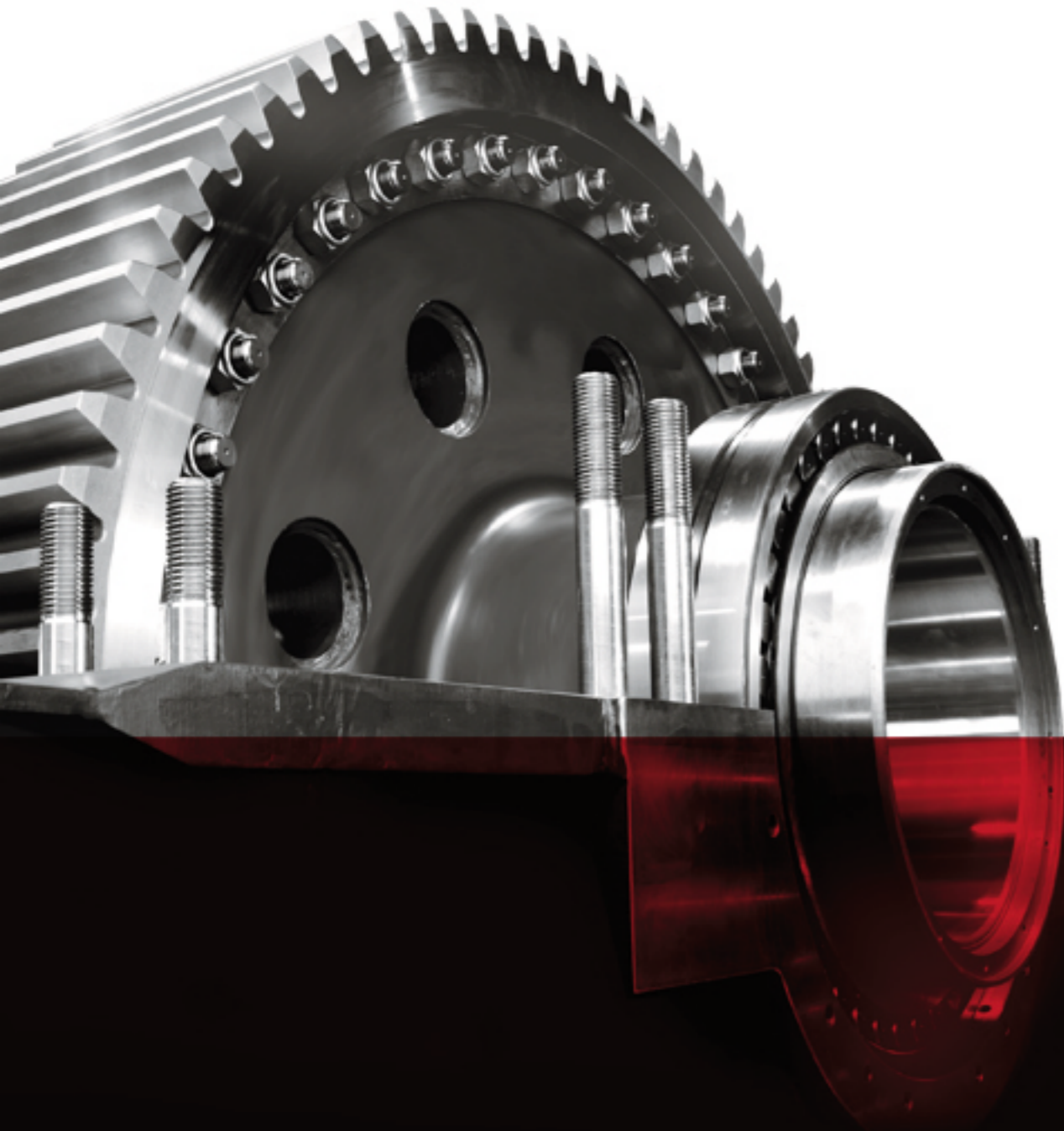
Power max. 5.000 kW

Weight max. 100 t



# Materials handling gearboxes

We deliver gearboxes around the world in support of materials handling equipment, primarily to companies in the mining and strip mining industries. Our special areas of expertise include reduced weight lifting gearboxes and bucket wheel excavators, as well as extremely compact carriage gearing. pekrun is also known for its belt drive units for use in extreme environmental conditions, such as high levels of contamination or low temperatures down to  $-40^{\circ}\text{C}$ .



Drive for bucket wheel excavator

## Characteristics

Torque max. 1250 kNm

Power max. 2500 kW

Weight max. 150 t



# Special gearboxes

Our particular strength lies in the development of Special gearboxes and the integration in your individual plant technology. You'd be surprised, for example, if you were to peek behind the stage scenery at one theatre or another to find a low-noise planetary gearbox running smoothly and quietly, having performed its scenery-service for decades. Moreover, we produce special gearboxes for metal cloth loom machines, blast furnace air heater damper gears and control gears for various applications - with electromagnetic clutch, shift cylinder or manual switching. We look forward to every new challenge.



Planetary gearbox

## Characteristics

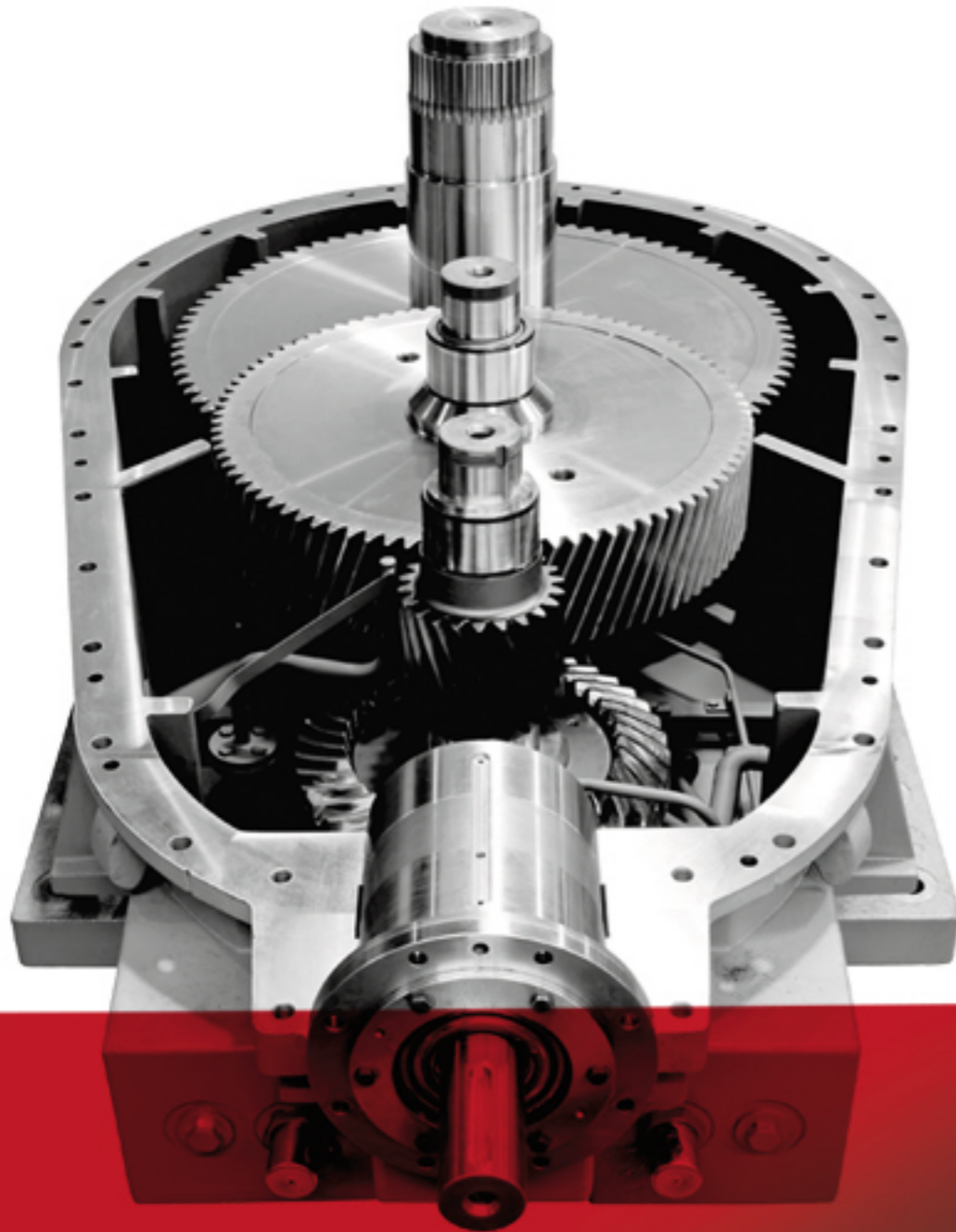
Torque max. 1500 kNm

Power max. 10.000 kW

Weight max. 150 t

# Fast.

And meticulous at the same time. Around the globe. The Leatherback Turtle (*Dermochelys Coriacea*) can cover a distance of up to 35 kilometres in one hour. And that's in the water. This means it is considerably faster than most people reading this text could run the 100 metre dash. When caring for its offspring, however, it takes all the time necessary. The suitable breeding ground is carefully chosen and its nest is properly sealed. This behaviour ensures that no further care is needed. It doesn't matter whether your gearbox is 100 days old or 100 years old, this exemplary blend of diligence and speed is also a top priority for pekrun's service department, as well. We guarantee it.



Mill gearbox

The Leatherback Turtle  
(*Dermochelys Coriacea*)

The Leatherback Turtle. Slow? By no means:  
with an average top speed of 35 km/h.  
Try imitating that.



# Customer service.

Our Customer Service encompasses all gearbox-related maintenance work. It's quick: our employees can respond to any point on the globe within 24 hours. Shake hands on it. It's dependable: with on-site vibration measurements and oil analyses included. Gear units from other manufacturers can also be maintained and repaired by our qualified employees. Just ask us about it. It's efficient: we perform the technical work tasks required to ensure continued gearbox operation. This reduces the strain on your budget. And it's timeless: take the example of Munich's city hall, where we repaired the over one 100 years old pekrun gearbox installed in the bell tower. Customer Service at pekrun is more than just lip service.



Gearbox for overhaul



# Out in front.

The panther can hear frequencies up to 45,000 hertz, its night vision capabilities are 5 times greater than a human's, it is an excellent swimmer and climber, and, on land, it can run faster than 60 km/h. The sum of these feats at top levels of performance places it in a leading position. Striving for the highest levels of performance whatever the field - rotordynamic analysis, API, AGMA, DIN or FEM - has made pekrun one of the leading special gearbox manufacturers.

We are proud of this.

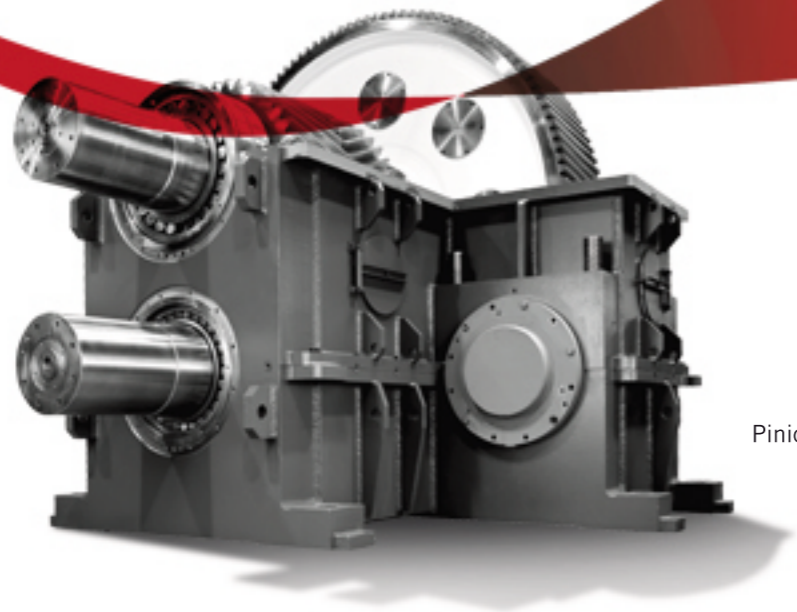


The silent, yet ever-watchful panther  
(panthera pardus).





In the past decades, pekrun has developed into one of most technologically advanced companies in gearbox manufacturing. This experience has led to the knowledge of how to build really good gearboxes. It is precisely this knowledge that makes up pekrun's know-how, from the draft to design layout and production, through to on-site installation. Yet we see ourselves as being more than just a global factory supplier; for years, we have been building extremely successful partnerships around the world, as well. The basis of this success is a transfer of know-how that demands a maximum amount of intuition and trust.



Pinion stand gearbox





Panther  
(Panthera Pardus)



Blue and yellow  
macaw  
(Ara ararauna)



Leatherback turtle  
(Dermochelys Coriacea)



## Carrying the burdon.

To take responsibility means to ensure that something is done and to engage yourself with and on behalf of customers and partners. pekrun's commitment goes beyond this. We recognize that our shared future also depends on the commitment of each individual. So just as we take the macaw, turtle and panther as emblems for our capabilities and performance, they also stand for our versatile involvement with social projects and environmental protection. We take this work very seriously and provide targeted support to national and international activities, as denying responsibility means no viable future.



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