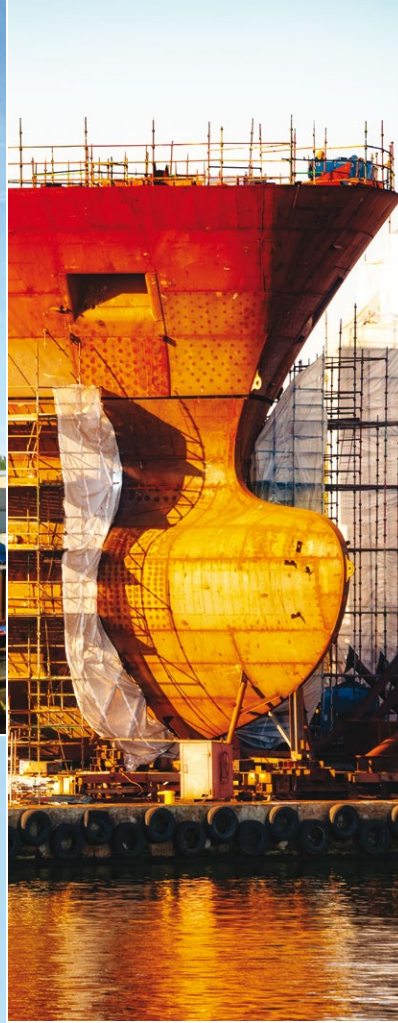




Industrial structures

Product applications for industrial structures



mageba



Your partner for industrial structures

About mageba

Over the past five decades, mageba, a Swiss company with headquarters in Bulach, north of Zurich, has been supplying products and solutions for construction projects around the world. With locations worldwide and a network of agents connecting the company to more than 50 countries, mageba is a successful and consistent global leader in supplying sustainable products and solutions for protecting structures. We offer individual and competent technical support and services based on decades of professional experience on over 20,000 construction projects around the world.

Quality

The quality of our products is ensured by the proven characteristics and capabilities of our products and by the extensive experience of our staff. mageba has a process-oriented quality system that is certified in accordance with ISO 9001. Quality is also regularly inspected by independent institutes, such as the University of Stuttgart's materials testing body (MPA) and the University of Innsbruck.

Customer support

Our product specialists will be pleased to provide you with further information about our products, and to advise you in the selection of the optimal solution for your project. On our website, mageba-group.com, you can find further product information, including product brochures and project references.



1 mageba headquarters, Bulach (CH)
2 Production of bearings in a mageba factory
3 Assembly of a mageba spherical bearing
4 RESTON® hydraulic dampers

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Power plant construction

Requirement

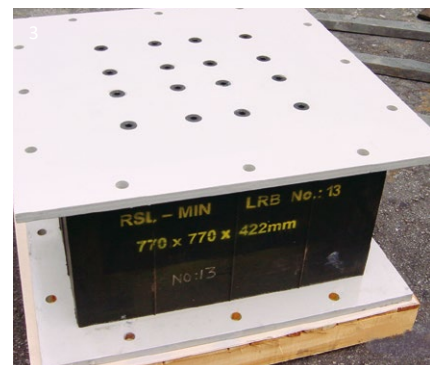
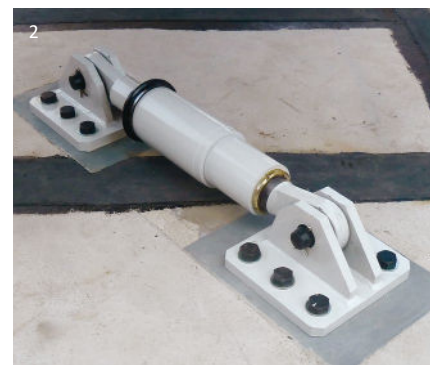
In the field of power plant construction, facilities for various power generation technologies are constructed. These technologies differ in terms of efficiency, availability, cost-effectiveness and sustainability. The appropriate facilities must meet the plant's specific requirements and fulfill all applicable demands in terms of durability, safety and operation. Particular attention is placed on transportation of substances between different processes, e.g. by pipeline bridges and conveyor belts, as well as in the processes themselves, e.g. by centrifuges, mills and vibrators.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (from low- to high-load capacity)**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project's special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



1 A RESTON®SPHERICAL bearing
2 A RESTON®SA shock absorber
3 A LASTO®LRB seismic isolator

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance materials

Examples of your possible applications

- Coal conveyor bridges
- Reactors, blowers
- Steam generation, steam coolers
- Burner systems, combustion chambers
- Air and gas heaters, heat exchangers
- Evaporators, condensers, bag and fabric filters

Project references

- Neurath power plant (DE): Bearing inspection
- Beznau nuclear power plant (CH): LASTO®LRB seismic isolators
- Constanta wind farm (RO): RESTON®SA shock absorbers
- Kusile power plant (ZA): RESTON®SPHERICAL bearings





Large-scale plant construction

Requirement

Large-scale/industrial plant construction creates the infrastructure and equipment needed for the extraction of chemical substances, biological materials and energy sources.

The different processes used to extract the substances cause various demands on the plant infrastructure and machinery, which also impose high demands in terms of safe and smooth operation and of minimising downtime.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (from low- to high-load capacity)**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project’s special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



1 A LASTO®BLOCK elastomeric bearing
 2 A RESTON®SPHERICAL bearing (partial), showing calotte on lower part of bearing
 3 A RESTON®SA shock absorber

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance material

Examples of your possible applications

- Waste incineration plants
- Belt conveyor systems
- Crushing and grinding plants
- Melting plants
- Loading stations

Project references

- Kölliken hazardous waste disposal site (CH): LASTO®BLOCK elastomeric bearings and LASTO®FLONBLOCK Deformation and sliding bearing
- Glass melting plant (CR): LASTO®LRB seismic isolators
- Mining railcar loading station (BR): RESTON®SPHERICAL bearings
- Flotation plant (DE): RESTON®SA shock absorber





Pipeline construction

Requirement

The pipeline system of an industrial plant serves as the plant's circulation system and is used, among other things, for the internal transport of materials. The various materials transported can place very different demands on the pipeline system – for example, in relation to properties such as weight, pressure differences or temperature influences. These result in structural loading on the pipelines, e.g. due to thermal expansion or cyclic excitation.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (from low- to high-load capacity)**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project's special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



- 1 LASTO® curved sliding bearing in factory
- 2 Installed special LASTO® curved bearing
- 3 RESTON®FORCE horizontal force bearing

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance materials

Examples of your applications

- Paper and pulp production
- Chemical and petrochemical plants
- Food production
- Pharmaceutical production plants
- Refineries and power plants

Project references

- Hugschwendi power plant (CH): LASTO® curved sliding bearings





Offshore

Requirement

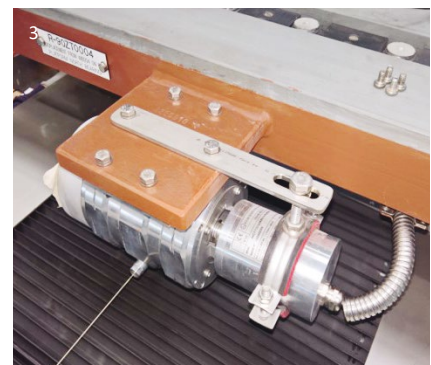
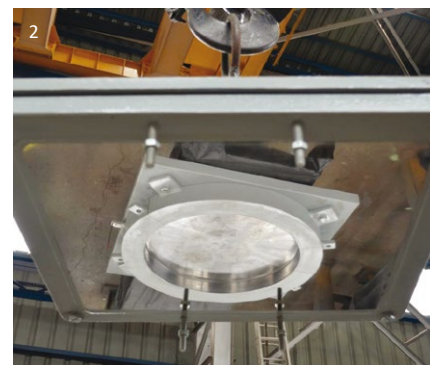
Offshore structures are generally considered to be especially technically demanding structures due to the extreme weather conditions arising, the constant loading by waves and currents, and the limited space available on these sea structures. Apart from the technically demanding design and the construction under sometimes extremely difficult conditions, it must be ensured that the maintenance and repair of the structure can be carried out in a cost-efficient way. To achieve this, damage to the equipment and to the platform itself must be prevented, e.g. by the use of appropriate structural bearings.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (high-load capacity and resistant to chemicals etc.)**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project’s special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



1 Hydraulic lifting work
 2 RESTON®POT bearing
 3 ROBO®CONTROL Permanent

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance materials

Examples of your applications

- Crane systems
- Connecting bridges
- Pipeline support
- Platforms
- Drive technology (cable winches)

Project references

- Tyra West Oil Rigs (DK): RESTON®SPHERICAL bearings
- Halfdan Field HBA-HBC (DK): RESTON®POT bearings
- Johan Sverdrup Field Centre (NO): ROBO®CONTROL monitoring system, RESTON®POT bearings
- Malampaya Phase III (PH): LASTO®BLOCK elastomeric bearings





Shipbuilding

Requirement

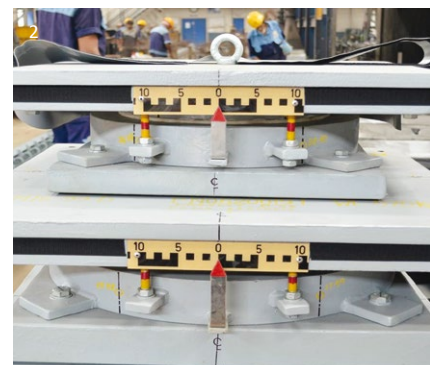
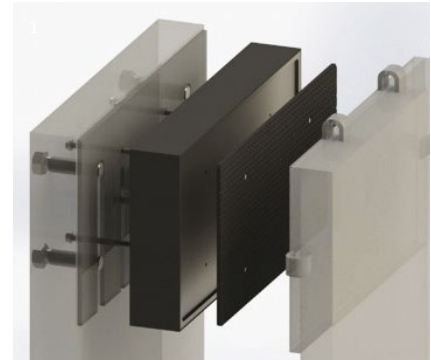
The modern ship is more than just a means of transport: it houses processing, handling and production technology that allows the cargo to be managed efficiently on the often long transport routes. Even passenger ships can operate almost autonomously thanks to their sophisticated equipment. The demands placed by the sometimes immense length and width of a ship, combined with the desired minimization of weight, require the use of modern and adaptable construction materials. During its journey, the ship is exposed to multi-directional loading due to its own weight, its cargo and the sea conditions, which can change quickly and radically at short notice. A well-engineered bearing concept is essential to ensure that the onboard technology is not subjected to any destructive forces, torsions or impacts.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (high-load capacity and dynamic)**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project’s special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



- 1 A LASTO®BLOCK elastomeric bearing
- 2 RESTON®POT bearings
- 3 A RESTON®SPHERICAL bearing

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

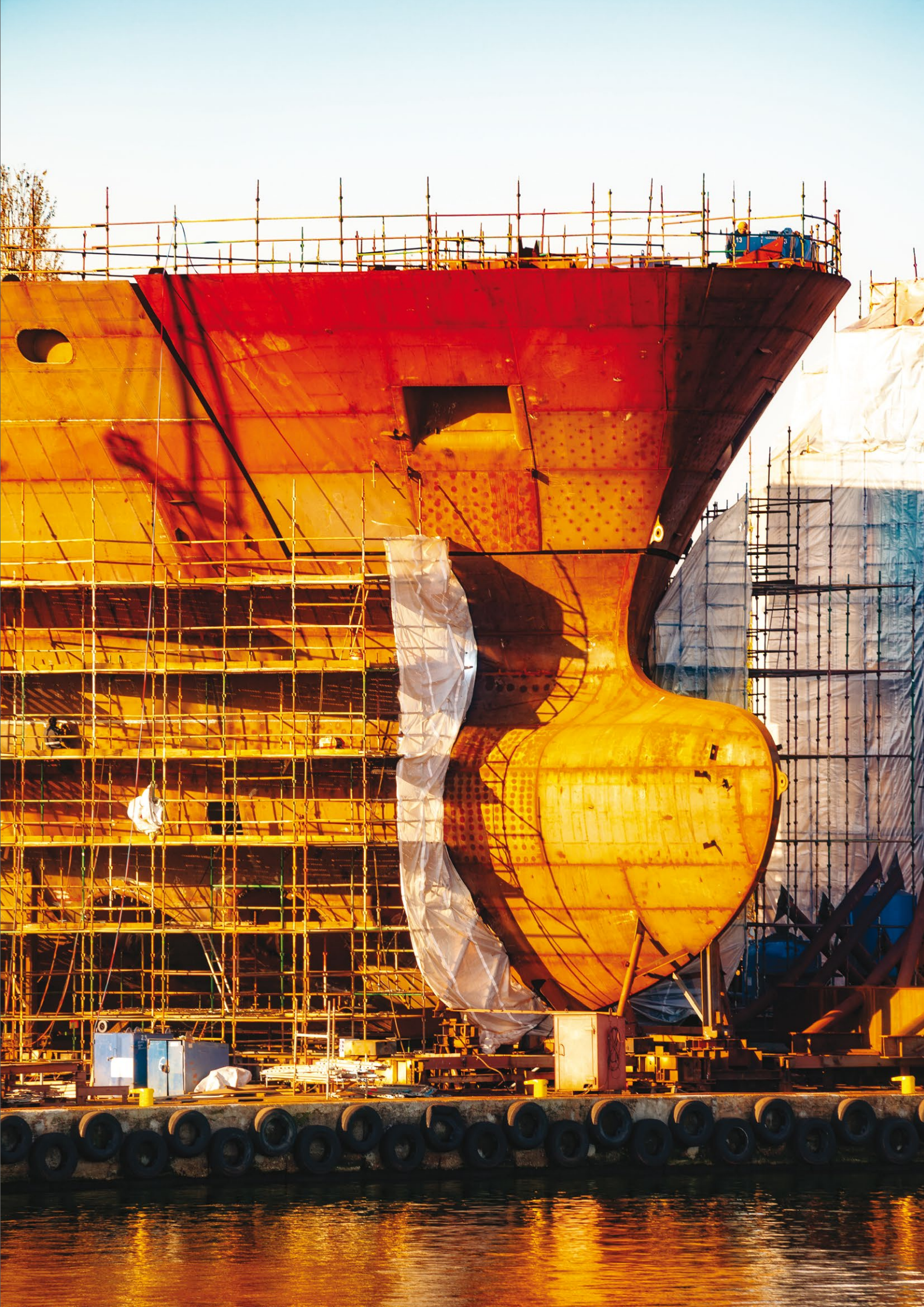
- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance materials

Examples of your possible applications

- Ship ventilators
- Ship pumps
- Compressors
- Platforms
- Drive technology (cable winches)

Project references

- Petrobras Vessel P66/P69 (BR):
LASTO®BLOCK elastomeric bearings
RESTON®POT HP bearings
- Petrobras P68 (BR):
RESTON®SPHERICAL bearings





Crane systems

Requirement

Crane systems apply multi-axial loads to the crane beam and the entire supporting structure due to their uplift loading, movements and braking loads.

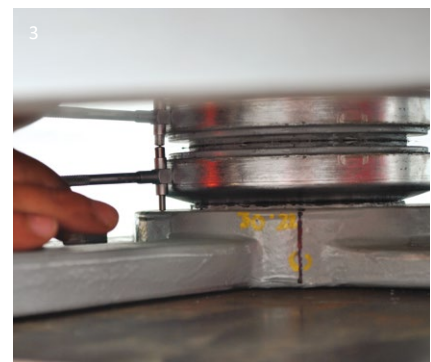
In some situations, the operation of the crane system may cause disturbances, due to vibrations and noise, in adjacent rooms or areas. Such disturbances can be prevented by supporting the crane runway on suitable elastomeric bearings.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (high-load capacity and with defined degrees of freedom)**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project’s special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



1 A VIBRAX®CRANE vibration isolation bearing
 2 A hanging crane rail with support bearing
 3 Adjustment after refurbishment

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance materials

Examples of your possible applications

- Bridge cranes, gantry cranes
- Harbour cranes

Project references

- Zurich University – Irchel Campus crane way (CH): VIBRAX®CRANE vibration isolation bearings
- AKSA AG – workshop crane way (CH): VIBRAX®CRANE vibration isolation bearings





Infrastructure construction

Requirement

Infrastructure construction can be found not only in public areas, e.g. highways, public roads and bridges, but also on large factory premises and the like. Here, too, efficient connections are required between individual buildings etc. For instance, factories often have waterways, rail traffic and road traffic – often heavy – both internally and externally.

Solution

mageba offers you an individual product portfolio tailored to your specific project:

- **Structural bearings (high-load capacity)**
- **Expansion joints**
- **Vibration damping/isolation**
- **Earthquake protection**
- **Structural monitoring systems**
- **Services**

All solutions are developed on a project-specific basis – with a comprehensive understanding of the project's special requirements and always in line with the latest technological standards. This is how we ensure structural safety and value for money.



1 TENSA®GRIP RS single gap expansion joint
2 TENSA®FLEX RC sliding finger expansion joint

Overview of mageba products and services

Structural bearings

- RESTON®PLATE support plates
- RESTON®FLAT sliding bearings
- RESTON®SPHERICAL bearings
- RESTON®POT bearings
- RESTON®FORCE horizontal force bearings
- LASTO®BLOCK elastomeric bearings

Expansion joints

- TENSA®GRIP RS
- TENSA®CRETE RE / RE-LS
- TENSA®FLEX
- TENSA®POLYFLEX®SLIM PU

Seismic protection

- RESTON®PENDULUM bearings
- RESTON®SA shock absorbers
- RESTON®STU shock transmission units
- RESTON®PSD preloaded spring dampers
- LASTO®LRB lead rubber bearings

Vibration isolation/damping

- VIBRAX®BLOCK bearings
- KTI tuned mass dampers
- KTI spring bearings

Structural monitoring

- ROBO®CONTROL Permanent
- ROBO®CONTROL Portable
- ROBO®QUAKE
- ROBO®SMART

Services

- Inspections
- Bearing repair and replacement
- Deck lifting and lateral adjustment works

... and many other solutions.

Key benefits at a glance

- Comprehensive solution portfolio in line with your requirements
- Many years of experience in project-specific engineering
- Professional technical support in planning and execution
- Development of special solutions using high-performance materials

Examples of your possible applications

- Expansion joints of transportation bridges
- Support of transportation bridges
- Seismic protection of transportation bridges
- General structural monitoring
- Vibration damping of bridges

Project references

- AlpTransit Viaduct 781 (CH): RESTON®POT bearings, RESTON®SHEAR bearings and RESTON®STU shock transmission units
- ThyssenKrupp (DE): TENSA®GRIP RS single gap expansion joints
- Höchst industrial park – Central plant bridge (DE): TENSA®FLEX sliding finger expansion joints





mageba products at a glance

Structural bearings

Countless industrial plants or parts thereof are exposed to loads, movements and rotations. mageba structural bearings ensure that these are properly accommodated and transmitted without any negative impacts on your structure. mageba pays the utmost attention to quality – during both production and installation of the bearings. We commit ourselves to this by way of production monitoring in cooperation with materials testing institutes, and also offer supervision services for bearing installation.

According to your requirements, mageba structural bearings can transfer vertical and horizontal loads and can accommodate rotations as well as displacements.

All bearing types can be designed for connection to concrete or steel surfaces.

Seismic protection

The product area of seismic protection is concerned with the protection of buildings and structures and consequently the protection of life and limb. We consider not only the possible destruction of structures by earthquake, but also the continued durability and operational reliability of the structures and facilities.

mageba's seismic protection is based on a range of structural protection products and on cooperation with the responsible engineers from a project's early planning stage. In this way, it can be ensured that the solutions developed are highly effective in preventing or minimising damage to bridges, buildings and other important or especially sensitive facilities and infrastructure.

mageba earthquake protection is based on the principles of load distribution, base isolation, energy dissipation, and pre-designed failure mechanisms.

Vibration damping

External effects – e.g. wind, earthquakes, human influences, and vibrations from devices, plant and machines – cause structures or parts of structures to vibrate. This typically causes noise, movements or vibrations and, in worst cases, can result in health problems for people in the surrounding area.

Vibration isolation, and consequently noise and vibration reduction, play an important role in the fields of construction and machine fabrication.

mageba offers you a wide range of economical product solutions in the field of vibration isolation and damping.

Your **key benefits** at a glance:

- Wide range of load capacities (low to high loads) covered
- Depending on the design, large rotations/displacements can be accommodated
- Long service life and low maintenance for an economical life cycle
- High-performance sliding materials used

Options and features:

- Connection to steel or concrete
- Integration of sensors for structural monitoring

Certificates, norms, conformity

- Design according to EN 1337 or an appropriate approval (e.g. European Technical Assessment (ETA) or German general technical approval (abZ))

CE marking

- Design also possible in accordance with AASHTO, German or other national standards and the applicable project requirements

Your **key benefits** at a glance:

- Cooperation with planners already in the design phase of their projects
- Wide range of products based on various protection concepts
- Long service life and low maintenance for an economical life cycle

Options and features:

- Connection to steel or concrete
- Integration of sensors for structural monitoring

Certificates, norms, conformity

- Bearing design according to EN 1337 or an appropriate approval (e.g. European Technical Assessment (ETA) or German general technical approval (abZ)). Design also possible in accordance with AASHTO, German or other national standards and the applicable project requirements

CE marking

- Damper design according to EN 15129 or other national/international standards

Your **key benefits** at a glance:

- The appropriate solution for many applications, e.g. where high dynamic loads arise
- Economical solutions in the area of noise and vibration isolation

Options and features:

- Connection to steel or concrete
- Integration of sensors for structural monitoring

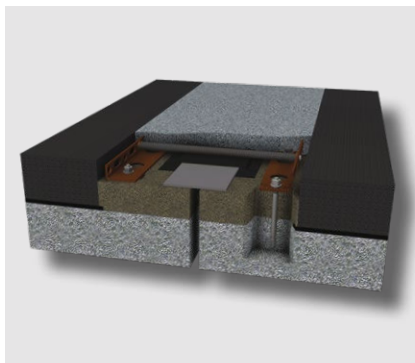


A KT1® Tuned Mass Damper

Expansion joints

External influences on bridge and building structures, such as temperature fluctuations and traffic loads, can lead to expansion/contraction or other impacts on pavements and floors. Expansion joints are used to optimally accommodate such movements and forces.

mageba offers a number of different types of expansion joint. In the context of industrial building structures, single gap expansion joints and flexible plug expansion joints are often used.



TENSA®POLYFLEX® Advanced PU expansion joint

Options and features:

- Optional solutions for increased noise protection are available

Certificates, standards, conformity

- Approvals (e.g. ETA or abZ) as well as according to AASHTO, German or various other national standards and applicable project requirements

CE marking

Structural monitoring

ROBO®CONTROL is mageba's range of fully automated structural monitoring systems.

Customised permanent solutions use sensors to measure the effects of traffic, temperature, seismic events, wind, corrosion, etc. at appropriate locations on a structure – assessing parameters such as loads, deformations, vibrations and natural frequency. The parameters measured at predefined intervals are transmitted to a remote computer, where the data is processed and made available to authorised users via a secure website or network.

The portable system is for occasional measurements with direct access and connection to the structural component of interest or with local wireless data transmission via Bluetooth or WLAN.

Some ROBO®SMART sensors can be fully pre-integrated into mageba products (bearings, expansion joints, dampers, etc.) already during production.



ROBO®CONTROL Permanent

Your key benefits at a glance:

- Permanent or temporary measurements – a tailor-made monitoring system for every application
- SMART components integrated in mageba products for maximum effectiveness and efficiency

Options and features:

- A wide range of mageba products can be equipped with „smart“ components

Services

Structural bearings and expansion joints are important components of a structure. If they are damaged, this can result in consequential damage to the entire structure, affecting traffic safety, structural stability and service life. Therefore, bearings and expansion joints should be inspected regularly in order to quickly identify problems and damage, and their causes, enabling them to be addressed in good time.

With many years of experience in the design, development, manufacture and installation of bearings and expansion joints, mageba is the ideal partner for owners and engineers in relation to inspections of such components. mageba offers customised inspection services with associated documentation and data evaluation, as well as refurbishment of damaged bearings, e.g. renewal of corrosion protection, replacement of components or realignment of deformed bearing parts.

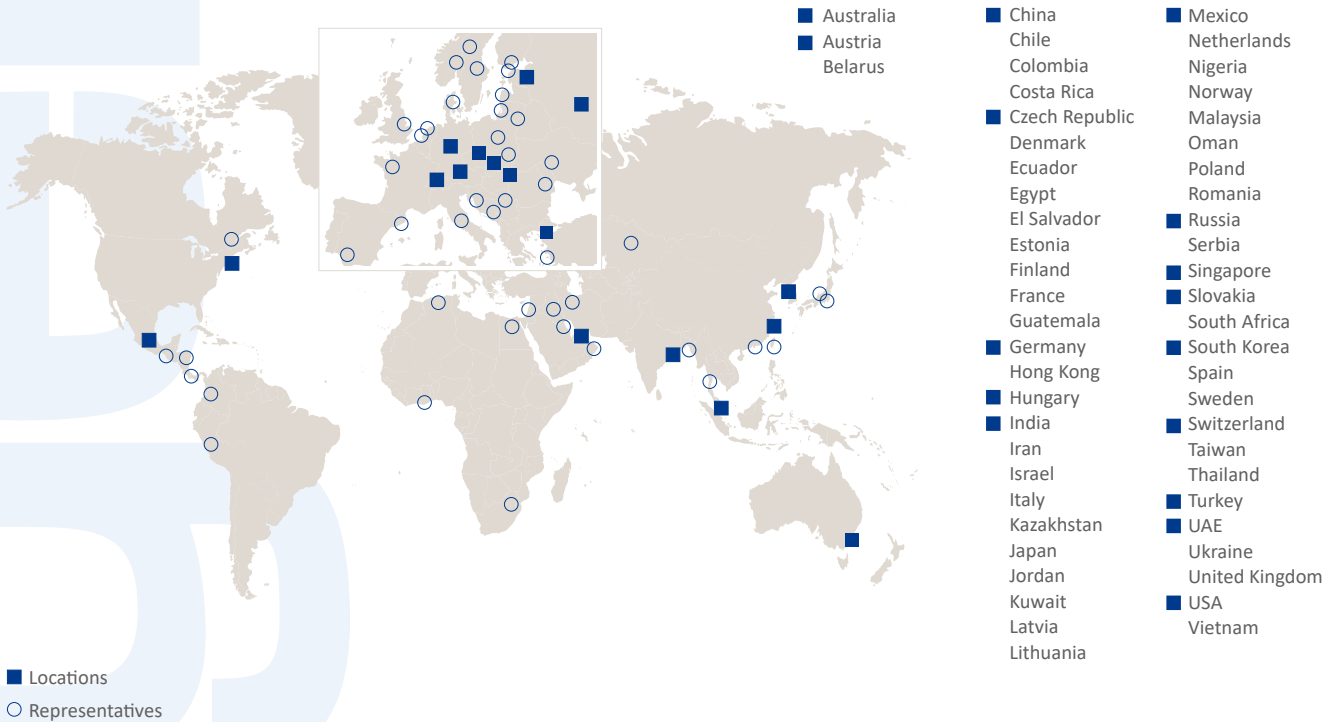


Lifting and lateral adjustment works

Your key benefits at a glance:

- Many years of experience in the development, design, manufacture and installation of bearings and expansion joints
- All from one partner: inspection and refurbishment
- Comprehensive service (also covering connecting parts of the main structure, e.g. rehabilitation of concrete abutments)

engineering connections® – since 1963



mageba headquarters



SWITZERLAND

mageba sa
Solistrasse 68
8180 Bülach
Tel. +41 44 872 40 50
info.ch@mageba-group.com

mageba-group.com

[LinkedIn](#) [YouTube](#)

Locations

AUSTRALIA

mageba (Australia) Pty Ltd
Eastern Creek, Sydney
Tel. +61 2 8188 5850
info.au@mageba-group.com

CZECH REPUBLIC

mageba CS s.r.o.
Brno
Tel. +420 541 233 042
info.cz@mageba-group.com

INDIA

mageba bridge products Pvt. Ltd.
Kolkata
Tel. +91 33 229 00 250
info@mageba.in

SINGAPORE

mageba (Singapore) PTE. LTD.
Singapore
Tel. +65 6977 7048
info.sg@mageba-group.com

TURKEY

mageba Yapı Sanayi ve Ticaret A.Ş.
Çayırova / Kocaeli
Tel. +90 262 658 23 80
info.tr@mageba-group.com

AUSTRIA

mageba gmbh
Wels
Tel. +43 7242 46991
info.at@mageba-group.com

GERMANY

mageba gmbh
Göttingen
Tel. +49 551 389 04 0
info.de@mageba-group.com

MEXICO

mageba Mexico - Tec. Est. S.A.
Querétaro
Tel. +52 442 388 6600
info.latam@mageba-group.com

SLOVAKIA

mageba Slovakia s.r.o.
Košice
Tel. +421 905 577 196
info.sk@mageba-group.com

UNITED ARAB EMIRATES

mageba sa (DMCC Branch)
Dubai
Tel. +971 4 561 3775
info.ae@mageba-group.com

CHINA

mageba (Shanghai) Co., Ltd.
Shanghai
Tel. +86 21 5740 7637
info.cn@mageba-group.com

GERMANY

mageba gmbh
Essen
Tel. +49 551 389 04 119
info.de@mageba-group.com

RUSSIA

mageba rus LLC
St. Petersburg
Tel. +7 495 967 93 20
info.ru@mageba-group.com

SOUTH KOREA

mageba (Korea) Co., Ltd.
Anyang
Tel. +82 31 389 2020
info.kr@mageba-group.com

USA

mageba North America Corp.
New York City
Tel. +1 212 644 3335
info.us@mageba-group.com

CHINA

mageba (Shengzhou) Co., Ltd.
Shengzhou
Tel. +86 21 5740 7637
info.cn@mageba-group.com

HUNGARY

mageba Hungary Kft.
Nyírtelek
Tel. +36 42 210 424
info.hu@mageba-group.com

RUSSIA

mageba rus LLC
Moscow
Tel. +7 495 967 93 20
info.ru@mageba-group.com

SWITZERLAND

mageba sa
Cugy
Tel. +41 21 731 07 10
info.ch@mageba-group.com

mageba
mageba-group.com