

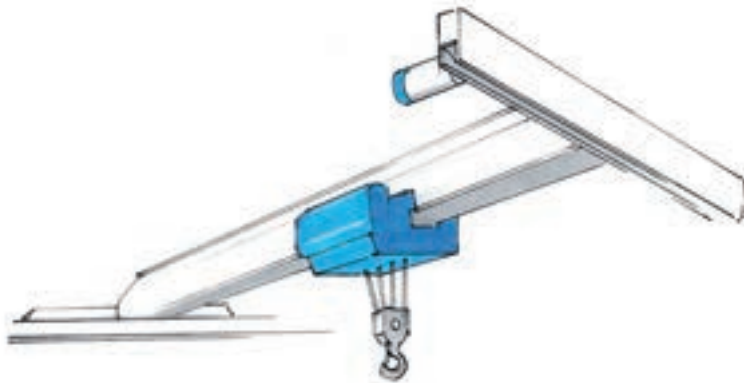
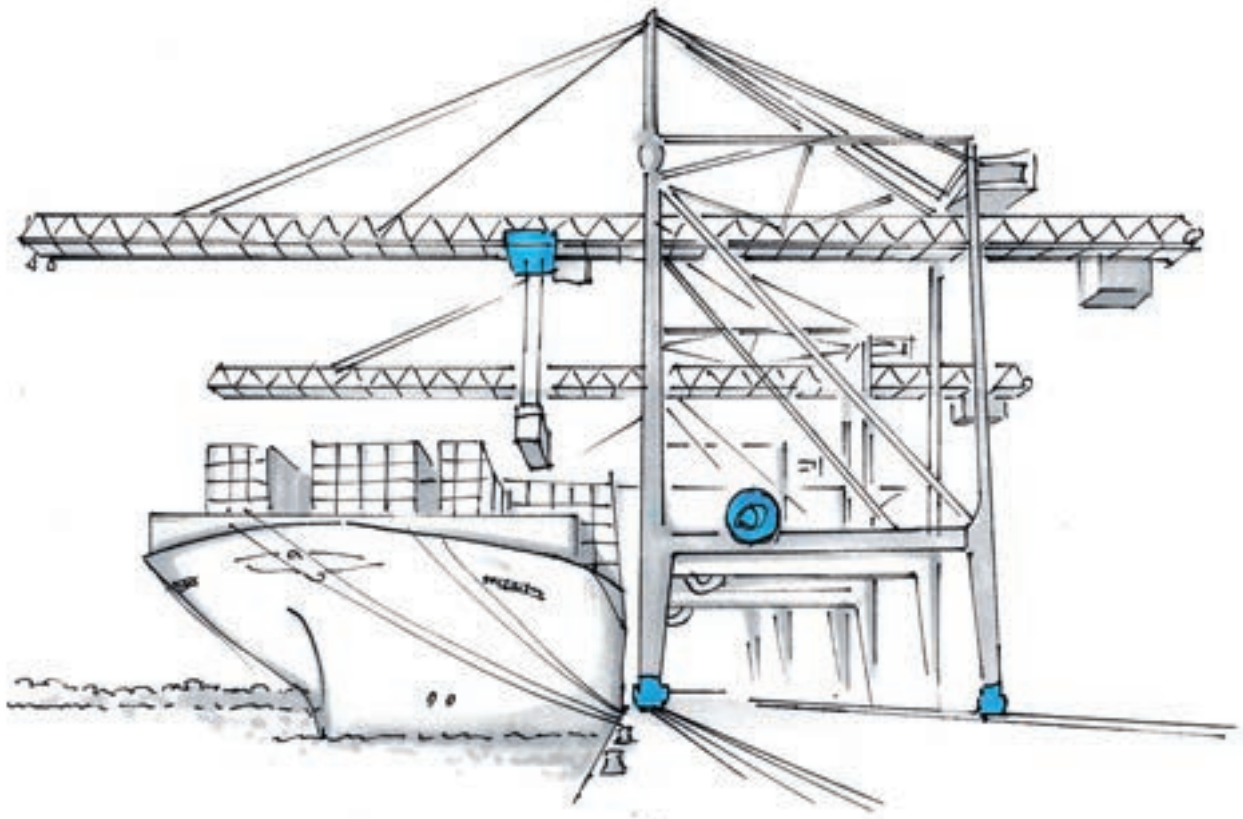


Brake systems for cranes and hoisting applications



Picture credits

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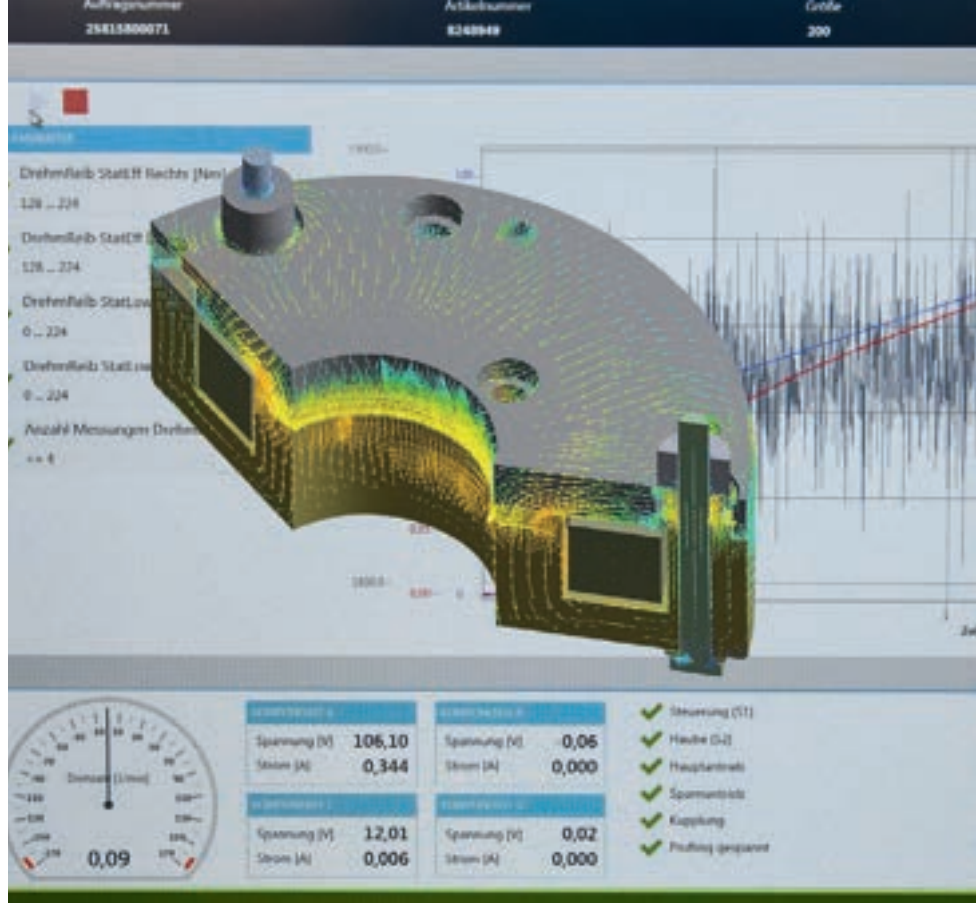


Secure holding even when storms are raging

For more than 100 years, the company *mayr*[®] power transmission has stood for innovation and premium quality. The family-run company from the Allgäu region can rely on decades of experience in development, manufacture and application, and still has a major influence on power transmission with its pioneering products.

Lifting, lowering, turning, swiveling, moving - construction cranes, harbour cranes, overhead cranes and cable winches must perform their tasks reliably - especially when there are people under the loads. Safety brakes by *mayr*[®] power transmission prove their worth in the hoists, slewing gears and trolleys. The brakes of the ROBA-stop[®] series ensure reliable and safe holding during normal operation. However, they are also designed to absorb peak loads with extremely high friction work in an emergency. For outdoor applications and critical ambient conditions, the company has developed a completely dust- and waterproof safety brake that can withstand the high loads.

Besides brakes, the clutches/couplings by *mayr*[®] power transmission also render reliable services in crane systems and hoisting applications. A wide spectrum of backlash-free, high-performance servo couplings ensures a reliable connection between the shafts. Tried-and-tested torque limiters stand for permanently reliable overload protection — for maximum operating safety and highest productivity.



Expert know-how in development and design

As the technological leader, *mayr*® power transmission focuses on continuous further development. Today, highly qualified engineers and technicians work on tomorrow's innovations using the most up-to-date tools. The many years of experience and countless tests in the Development and Testing Department at the Mauerstetten Headquarters form the basis of conscientious lifetime dimensioning.

The values upheld by our traditional, family-run company also include long-term stability and independence as well as a good reputation and satisfied customers.

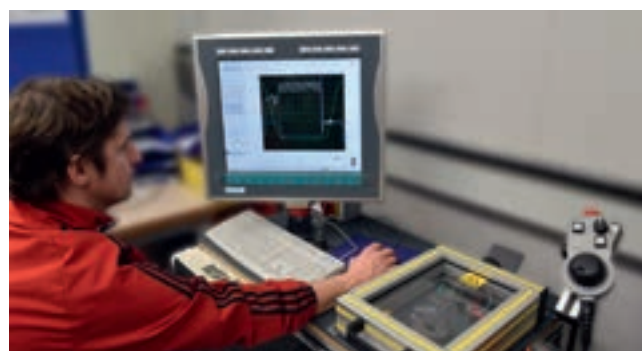
Therefore, we place emphasis on:

- Tested product quality,
- Optimum customer service,
- Comprehensive know-how,
- Global presence,
- Successful innovations and
- Effective cost management

Tested quality and reliability

mayr® brakes and clutches/couplings are subject to meticulous quality checks. These include quality assurance measures during the design process as well as a comprehensive final inspection. Only the best, tested quality leaves our factory. All products are rigorously tested on test stands, and adjusted precisely to the requested values. An electronic database in which the measured values are archived together with the associated serial numbers guarantees 100 % traceability. On request, we confirm the product characteristics with a test protocol.

The certification of our quality management according to DIN EN ISO 9001:2015 confirms the quality-consciousness of our colleagues at every level of the company.



Specialists in power transmission for more than a century

mayr® power transmission is one of the most traditional and yet most innovative companies in the field of power transmission. From modest beginnings in the year 1897, the family enterprise has developed to become the world market leader. Worldwide, the company employs more than 1000 people.

An unsurpassed standard product range

mayr® power transmission offers an extensive variety of torque limiters, safety brakes, backlash-free shaft misalignment compensation couplings and high-quality DC drives. Numerous renowned machine manufacturers trust in solutions by *mayr*® power transmission.

Represented worldwide

With eight subsidiaries in Germany, sales offices in the USA, France, Great Britain, Italy, Singapore and Switzerland as well as 40 additional country representatives, *mayr*® is available in all important industrial areas, guaranteeing optimum customer service around the globe.

Strongly positioned

mayr® sets standards in power transmission with economically viable solutions. For maximum competitiveness of your machines and systems, we always aim for the best possible cost efficiency, starting with the development of your clutch/coupling or brake, right up to delivery of the finished and inspected product. For cost-efficient production, our factories in Poland and China represent the perfect supplement to the headquarters in Germany.



Subsidiary with Production — *mayr*® China

Never compromise on safety

We make no compromises where safety is concerned. Only top products of a perfect quality guarantee that no people are injured or machines damaged in case of malfunctions, collisions and other hazardous situations. The safety of your employees and machines is our motivation to always provide the best and most reliable clutches, couplings or brakes.

mayr® power transmission holds numerous ground-breaking patents, and is the global market or technological leader for

- application-optimised **safety brakes**, for example for passenger elevators, stage technology and gravity-loaded axes
- **torque limiters** to protect against expensive overload damage and production losses and
- backlash-free **servo couplings**.



mayr® headquarters in Mauerstetten: Climate-neutral since 2020



Subsidiary with Production — *mayr*® Poland

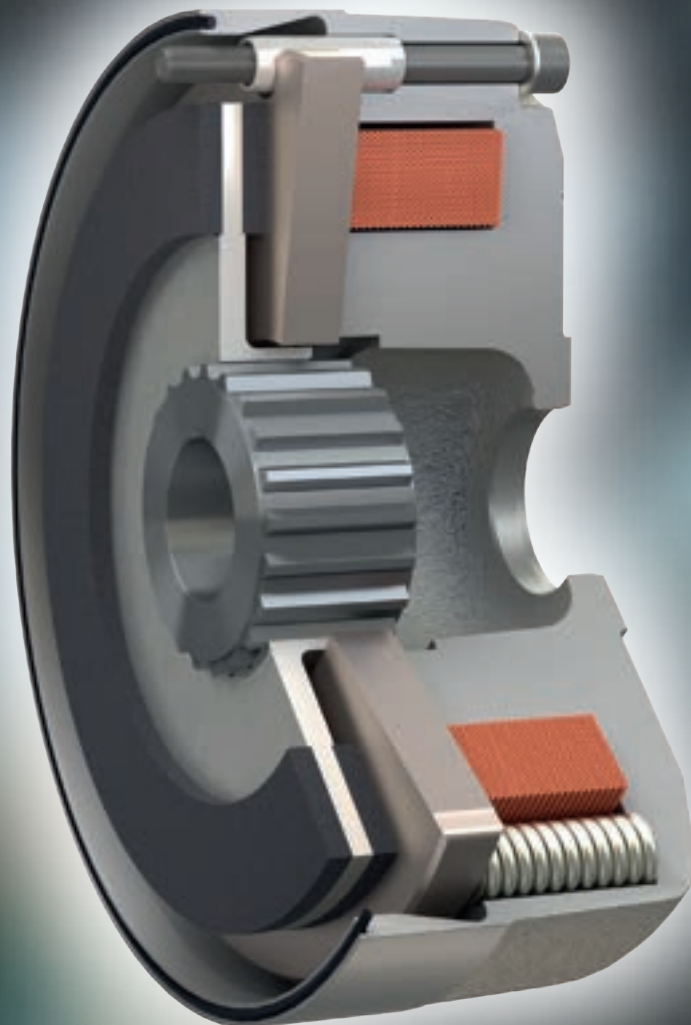
Safety brakes for trolleys and hoists in overhead cranes

ROBA-stop®-M - robust motor brakes

In production halls, overhead cranes transport material and workpieces from A to B - sometimes over machines, and in some cases people might also be in the vicinity. For this reason, ROBA stop®-M safety brakes are used in the trolleys and hoists of the crane solutions. These brakes are designed for installation at the free shaft end. They ensure reliable holding and can decelerate moving masses or loads in motion. In case of emergency stop, power failure, or in the event of a malfunction, the ROBA-stop®-M brakes hold any position and therefore prevent uncontrolled falling or crashing. This not only protects the employees from injury, but also the material, workpieces and machines from damage.

Safety due to the fail-safe principle

The electromagnetic ROBA-stop®-M safety brakes work according to the fail-safe principle, which means they are fail-safe. They are closed in de-energised condition, but also after a power failure or emergency stop. When the power is switched on, a magnetic field builds up in the brakes. The armature disk is attracted to the coil carrier against the spring pressure. This releases the rotor, i.e. the brake is released. The motor can rotate freely. An additional advantage for safety-critical applications: Even if the brake is damaged, caused for example through cable breakage or failure of the magnetic coil, the braking torque is retained.





Compact and functionally safe

Compared to numerous other safety brakes, the ROBA-stop®-M brakes stand out with regard to operational safety and maintenance-friendliness.

- Easy installation
- Completely enclosed brake housing acc. Protection IP54 or IP66
- Maintenance-free over the entire service lifetime of the rotor
- Insulation class F
- Can be used for 100 % duty cycle
- Short switching times



Product Catalogue

The detailed Product Catalogue **K.891.V** with all constructional designs, technical data and dimensions is available for download on our website **www.mayr.com**.

We are also happy to send you a printed catalogue.

Safety brakes for slewing gears, trolley travelling gears and hoisting gears in construction cranes

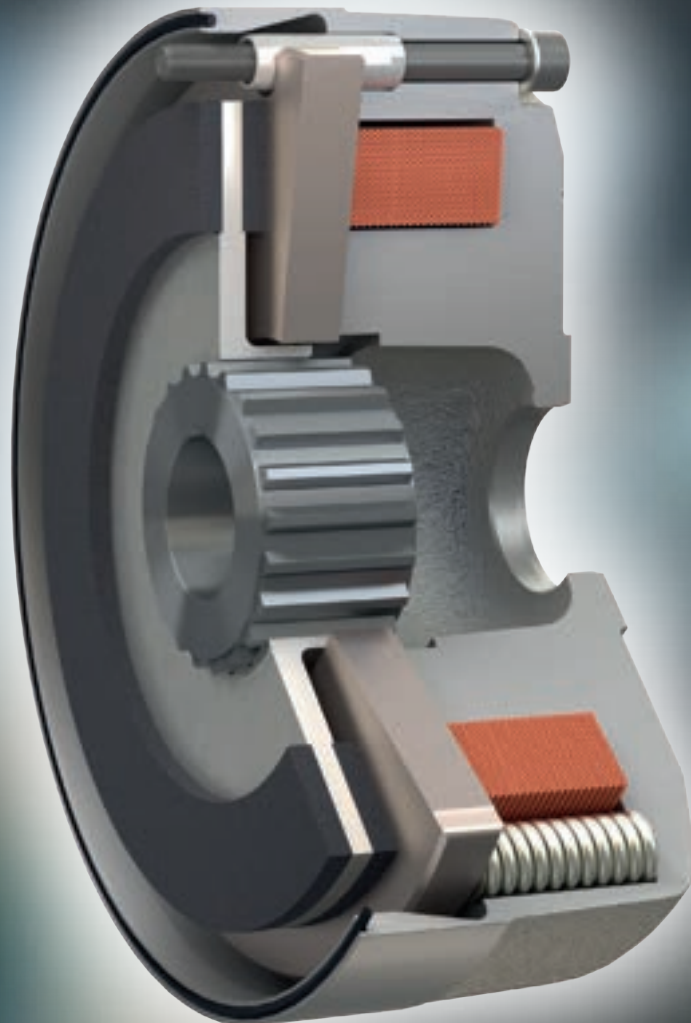
ROBA-stop®-M - robust motor brakes

Large construction cranes usually have three power units that can be used independently of each other. These are the slewing gear for rotating the entire upper crane, the trolley travelling gear for moving the so-called trolley along the boom and the hoisting gear for lifting and lowering the load. In all three power units, ROBA-stop®-M brakes ensure reliable and safe holding and meet all requirements with regard to safety and durability.

The brake in the crane's slewing gear serves as a holding brake; this means, the brake reliably holds the boom against the wind during longer breaks in operation and when the slewing gear motor is switched off. The deceleration itself is performed electrically. When the crane is switched off, i.e. when the crane operator leaves the crane in the evening, the wind release is activated. This means the slewing gear brake

is released and held open via a user-friendly mechanism without power. The rotating part of the crane can thus turn like a weather vane in the wind or storm. If the brake were not released, the crane might eventually topple over in a storm.

The ROBA®-stop-M brakes, which are used in the crane's hoisting gear also work as holding brakes in normal operation. The deceleration of the movement also takes place electrically. Only at a speed of zero does the brake engage and hold the load securely. However, the brakes are also designed to absorb peak loads with extremely high friction work. For hoisting gears, this is for example the case when - in case of emergency stop or power failure - loads moved downwards have to be braked whilst moving at full speed. The brakes are equipped with integrated switching condition monitoring.





Compact and functionally safe

Compared to numerous other safety brakes, the ROBA-stop®-M brakes stand out with regard to operational safety and maintenance-friendliness.

- Easy installation
- Completely enclosed brake housing acc. protection IP54 or IP66
- Maintenance-free over the entire service lifetime of the rotor
- Class of insulation F
- Can be used for 100 % duty cycle
- Short switching times



Detailed view: Slewing gear of a rotating tower crane

Product Catalogue

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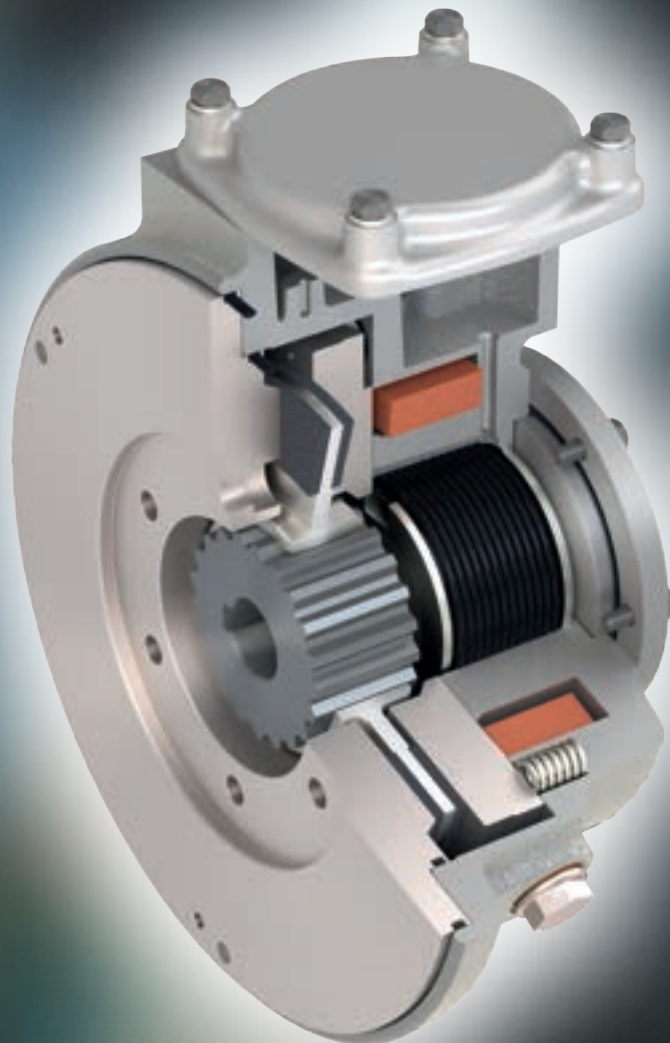
Robust outdoor brakes for harbour crane systems

ROBA-stop®-S safety brakes

In the big container harbours around the world, the loading and unloading of the ships generally takes place land-side via harbour crane systems, so-called container gantry cranes, with load capacities of up to several hundred tonnes. In order to cope with the non-stop quantities of sea-borne goods, all components in these systems must function very efficiently and reliably. This is why renowned manufacturers place their trust in the robust and high-performance ROBA-stop®-S safety brakes by *mayr*® power transmission in their hoisting and travel gears. These brakes have been especially developed for outdoor applications with extreme ambient conditions, and convince customers with their simple assembly and handling as well as long maintenance intervals.

For peak loads with high friction work

The brakes in the travel and hoisting gears of harbour crane systems fulfil two functions: On the one hand, they work as holding brakes in normal operation. This means they have to hold the system safely in the approached position once the drives have been switched off – even in windy and stormy conditions. During critical operational situations, e.g. with emergency stop or power failure, the ROBA-stop®-S safety brakes are on the other hand designed to absorb peak loads with high friction work. This is for example the case when loads moved downwards by hoist gears have to be braked whilst moving at full speed.

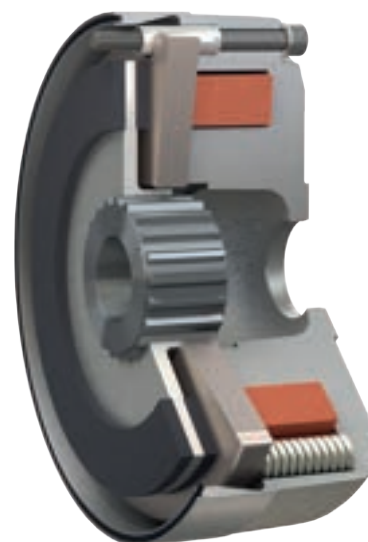




Protected against corrosion

When loading and unloading ships, harbour crane systems have to perform at peak levels around the clock. The prerequisite for this is high operational safety with minimum standstill times for maintenance repair work. In addition, extreme ambient conditions such as the salty environment, varying air humidity values, even wind and storms have to be weathered. All components, especially safety-relevant components, must therefore be robust and resistant - just like the ROBA-stop®-S safety brakes.

- Completely enclosed and sealed design in Protection IP67
- Robust, single-part monoblock housing
- All components are corrosion-resistant
- High friction work is permitted
- Can be used in extreme ambient conditions
- Long-distance diagnosis via integration of release monitoring and wear monitoring
- Anti-condensation heating system to avoid condensation formation inside the brake



Also ROBA®stop-M brakes are used in harbour crane systems. They are characterized by an enclosed constructional design and the related high Protection IP 66 in sealed design.

Product Catalogue

The detailed Product Catalogue **K.856.V_ _ _** with all constructional designs, technical data and dimensions is available for download on our website **www.mayr.com**.

We are also happy to send you a printed catalogue.

Robust outdoor brakes for deck winches and ship cranes

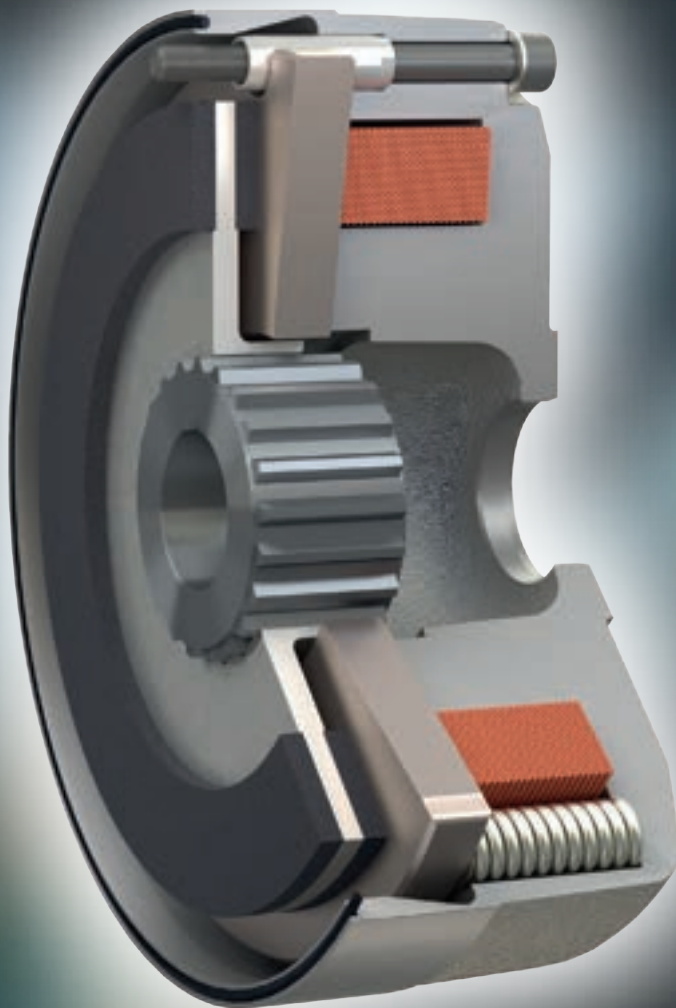
ROBA-stop®-M and ROBA-stop®-S brakes

Whether for anchors, dinghies or fishing nets - deck winches on board ships are used for a wide range of tasks. In addition, ship cranes are also used for lifting and transporting material. Here, too, robust safety brakes which are adapted to the ambient conditions of the maritime climate as well as designed for emergency braking with peak loads and high friction work are required.

With the ROBA-stop®-S, *mayr*® power transmission as leading manufacturer has developed a safety brake especially for critical ambient conditions and outdoor applications. It complies with Protection IP67 requirements and is therefore completely dust-tight and waterproof. Also the ROBA-stop®-M brakes convince with an enclosed constructional design and the related high Protection IP 66 in sealed design.

Minimum maintenance requirements

In particular in difficult installation positions, criteria such as simple installation and handling and long maintenance intervals are particularly important. Through their compact construction and small outer diameter, the safety brakes are easy to handle and can be quickly and easily installed. The high-quality friction material of the brake linings with high wear resistance also substantially reduces the number of inspections necessary, and therefore the failure times. If the friction linings wear down, the maintenance effort is minimal: Only the air gap has to be readjusted or, at the end of its service lifetime, the rotor has to be replaced along with the friction linings.





Compact and functionally safe

Compared to numerous other safety brakes, the ROBA-stop®-M brakes stand out with regard to operational safety and maintenance-friendliness.

- Easy installation
- Completely enclosed brake housing
acc. Protection IP54 or IP66
- Maintenance-free over the entire service lifetime
of the rotor
- Class of insulation F
- Can be used for 100 % duty cycle
- Short switching times
- GL-certified Cold Climate Version



All functional components of the ROBA-stop®-S safety brakes are permanently protected against corrosion and are dimensioned so that they are also suitable for emergency braking procedures with high levels of friction work.

Product Catalogue

The detailed Product Catalogue **K.891.V_ _ _** with all constructional designs, technical data and dimensions is available for download on our website **www.mayr.com**.

We are also happy to send you a printed catalogue.

Reliable safety brakes for chain hoists, wire rope hoists and belt hoists

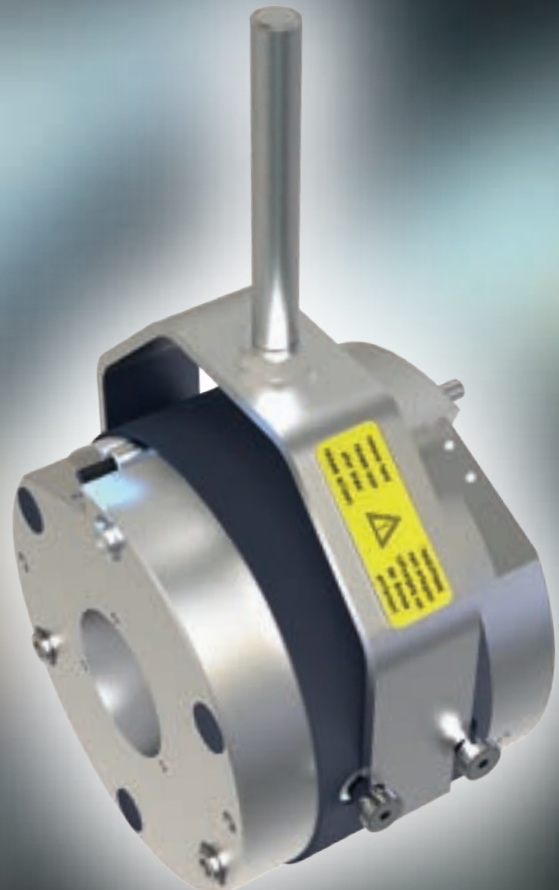
ROBA-stop®-silenzio®, ROBA-stop®-stage, ROBA®-secustop

Loads are also frequently transported with chain hoists, wire rope hoists and belt hoists. In industrial applications as well as in theaters, opera houses and concert halls. Here, the hoists of the upper machinery have to move and hold stage decorations or lighting units above the actors or singers during a performance, for example, or they might also transport people. This requires special safety requirements to be met. The safety brakes in the drives play an important role here: In an emergency, they must save lives. In the event of a power failure or emergency stop, they bring the loads to a standstill as quickly as possible to prevent personal injury or damage to property. As redundant braking systems, the dual circuit brakes operate completely independently of each other. Each of the two brakes is therefore also capable of holding the load safely on its own,

thus reliably protecting the actors on stage from falling parts in an emergency. With the ROBA-stop®-stage stage brakes, *mayr®* power transmission has developed brakes that are redundant, but still work without doubling the braking torque in case of an emergency stop. This means that they brake softly and in a manner that is gentle on the components - the accident load is therefore significantly reduced. The brakes meet all safety requirements of the standard DIN EN 17206.

Low-noise in operation

ROBA-stop®-silenzio® brakes with their patented noise damping are the quietest safety brakes on the market - even after several hundred thousand switching cycles - and are therefore particularly suitable for noise-sensitive environments such as theatre or opera performances.





ROBA-stop®-silenzio®, the quietest safety brakes on the market

- Dual circuit brake as redundant brake system
- Extremely short construction length
- Easy installation
- Consistently low noise level
- Reliable braking torque transmission

ROBA-stop®-stage, 100 percent safety – without double the braking torque

- Reduces loads on supporting structures
- Plug-and-play solution
- Low-noise

ROBA®-secustop, double brake for chain hoists and hoisting devices

- Easy installation without adjustment work
- Maintenance-free due to wear-resistant and durable brake linings
- Low-noise
- Installation space-optimised



Product Catalogues

The detailed Product Catalogues **K.896.V** __ __ __ __, **PN.8070.V** __ __ __ __ and **P.8020.V** __ __ __ __ with all the constructional designs, technical data and dimensions are available for download on our website **www.mayr.com**.

We are also happy to send you a printed catalogue.

Electronic accessories for optimum interactions

Intelligent safety through networked machine elements

For the brakes, *mayr*® power transmission offers comprehensive electronic accessories for an aligned overall system. In addition to spark quenching units to prevent the creation of sparks on switching contacts, this includes half-wave and bridge rectifiers as well as ROBA®-switch and ROBA®-multiswitch fast acting rectifiers. The safety brakes are controlled using these rectifiers: They connect the brakes as DC consumers to the alternating voltage supply and allow the implementation of short overexcitation operation and/or voltage reduction. With these compact, light-weight as well as energy and cost-saving modules, *mayr*® power transmission provides flexible solutions for different brake concepts.

Preventative, demand-related maintenance

Permanent inspection, demand-related maintenance, plannable and suited to the actual utilization, automated remote maintenance or cross-machine / cross-plant error analyses - these are the key aspects of tomorrow's machine maintenance. *mayr*® power transmission offers solution concepts for the proactive maintenance of electromagnetic safety brakes based on permanent inspection. The brakes are predestined components for the maintenance, safety and system availability, and permit conclusions to be drawn regarding the system operation. The monitoring of the safety brakes takes place without the use of sensors with the retro-fittable ROBA®-brake-checker module.





ROBA®-brake-checker: Reliable monitoring

Always keeping an eye on the operating condition of the brake

- Sensorless monitoring of switching condition, wear, critical coil temperature and errors
- Highest operational safety due to detection of errors before they occur
- Control and monitoring functions all in one
- Reliable and wear-free, independent of the cycle frequency and the number of cycles
- Can be used flexibly for wide ROBA-stop® brake spectrum
- Can also be integrated easily, quickly and cost-effectively into existing systems

Safety becomes visible

- In addition to the signal itself, the module also supplies, for example through an optical interface, data on the switching time, the current, the voltage, the resistance, the performance and the relative attraction current.
- Using an evaluation program, users can see whether everything fits or whether there is a need for action.
- Maintenance becomes plannable and even remote maintenance is possible.



Torque Limiters

The airbag for your machine

Torque limiters by *mayr*® power transmission reliably protect machines and systems from expensive overload damage. They save costs and increase productivity. As the global market leader, the company possesses the widest product range, and provides tailored solutions for very different applications.

Also in the area of crane systems and winch applications, clutches by *mayr*® power transmission ensure smooth operation. They stand for safety and absolute reliability.

mayr® torque limiters are subdivided according to their functional principle into load holding and load-disconnecting clutches.

Load holding clutches limit the torque to the specified value, but do not interrupt the torque transmission during overload. This is particularly important for vertical masses or masses moved in an inclined position, which must not fall uncontrollably.

Load-disconnecting clutches transmit the torque using positive locking. They disconnect the input and output on overload, meaning that they interrupt the torque or the transmission of force.



Product Catalogues

You can find an overview of our wide portfolio of torque limiters in the Catalogue **IMG.402.V** _ _ _ _

A detailed product catalogue is available for each construction series, with all constructional designs, technical data and dimensions.

All the catalogues are available for download on our website **www.mayr.com**.

We are also happy to send you a printed catalogue.

Load-disconnecting torque limiters

Automatically engaging EAS®-torque limiter

Torque range: 0.65 to 2,400 Nm

Disengaging EAS®-torque limiters

Torque range: 5 to 460,000 Nm

Switchable and controllable torque limiters

Torque range: 4 to 2,500 Nm

Axial force-limiting torque limiter: EAS®-axial

Force range: 75 to 300,000 Nm

Load-holding torque limiters of the ROBA® series

Frictionally locking clutches

ROBA®-slip hubs

Torque range: 2 to 50,000 Nm

Continuous slip clutches with magnetic hysteresis principle

ROBA®-contitorque

Torque range: 0.1 to 12 Nm

Shaft Couplings

Solutions for all drive constellations

Shaft couplings have the basic function of transmitting the motor power precisely from one shaft to another and of compensating for any occurring shaft misalignment. In servo technology, steel bellows, elastomer and disk pack couplings are generally used; these are amongst the most common and most attractive backlash-free shaft couplings. However, each drive has its own special features and places very different demands on the coupling.

In rough ambient conditions and for dynamic drive axes, preferably all-steel disk pack couplings are used. Today, it

is important that these couplings offer a high performance density. High performance density means smaller outer diameter, reduced weight and low mass moments of inertia.

mayr® power transmission provides a very wide and sophisticated product portfolio for various drive constellations. Customers benefit from the competence of one of the leading companies worldwide in mechanical power transmission. You receive complete solutions from a single source, and therefore may be able to save on additional suppliers and costs.

smartflex®

modulare und anpassungsfähige Metallbalgkupplungen

smartflex® Kupplungen überzeugen durch eine bis zu dreimal höhere Verlagerungsfähigkeit als übliche Metallbalgkupplungen bei radialem Wellenversatz und sind dadurch besonders betriebssicher.

Drehmomentbereich: 16 bis 700 Nm

primeflex®

spielfreie, steckbare Metallbalgkupplungen

primeflex® Kupplungen sind ohne Gefährdung des Metallbalgs sicher demontierbar, auch nach längerer Betriebsdauer.

Drehmomentbereich: 24 bis 120 Nm

ROBA®-ES

spielfreie Elastomerkupplungen

ROBA®-ES Elastomerkupplungen übertragen das Drehmoment spielfrei und dämpfen kritische Schwingungen.

Drehmomentbereich: 4 bis 1.250 Nm

ROBA®-DS Servokupplungen

verschleiß- und wartungsfreie Stahllamellenkupplungen

Äußerst kompakte Baureihe aus Stahl und hochfesten Aluminiumlegierungen.

Drehmomentbereich: 35 bis 150 Nm

ROBA®-DS Ganzstahlkupplungen

verschleiß- und wartungsfreie Stahllamellenkupplungen

Die leistungsstarken und robusten Ganzstahl-Lamellenpaketkupplungen übertragen das Drehmoment spielfrei und äußerst drehsteif. Sie sind kompakt und leistungsdicht. Mit DNV GL-Zertifizierung.

Drehmomentbereich: 190 bis 110.000 Nm



Product Catalogues

You can find an overview of our wide portfolio of shaft couplings in the Catalogue **IMG.900.V**.

A detailed product catalogue is available for each construction series, with all constructional designs, technical data and dimensions.

All the catalogues are available for download on our website **www.mayr.com**.

We are also happy to send you a printed catalogue.

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