

The Fun of High Tech Entertainment Technology



Complete Drive and Control Solutions





Your Demand Is Our Challenge: You Define The Task – We Supply The Solution

Rexroth Systems & Engineering Your Solution Partner

For each application, there is a specialist department at Rexroth Systems and Engineering. These “Corporate Centers of Competence”, are formed by engineers with decades of experience in hydraulic drive and control, focused on specific application areas.

Customers, e.g. designers of technical installations, are often faced with a wide range of technological disciplines which they have to implement into their product. The strategy of offering application related package solutions (up to turn-key) is of decisive advantage, especially for the plant designer and operator.

They can concentrate on the key questions of project planning without having to deal with the Drive & Control system itself. The customer is able to ask for performance instead of technical details.

Especially if it comes to highly sophisticated drive and control functions this implementation turns out to become very demanding. It even becomes one of the success factors to the whole installation created by the customer.

That is where Rexroth Systems and Engineering comes into place. We have specialized in implementing complete drive and control systems into the clients products and installations, generally on a turn-key basis.

Rexroth Systems and Engineering is able to select a close-knit team from its staff of experienced, creative and highly trained engineers and project managers, experts in the field of each specific application.

The unique marriage between application know-how with Drive & Control technology could be ideally achieved for the benefit of the customers of Rexroth.



Project implementation is carried out in close cooperation with the client. The four most important Systems & Engineering competences for successful projects are

- **Market and application know how**

This means knowledge and experience with customer needs and the translation of his requirements into a sound and economic solution.

- **Technical and commercial project management**

The technical capability to design, simulate and detail systems together with the knowledge of legal aspects, risk & insurance management, and claim & site management for instance.

- **Drive and Control Competence**

We take the opportunity to use the wide range of technologies and first class components like cylinders, power units, valves, pumps, control systems and piping, that are available within the Bosch Rexroth organization.

- **Worldwide network**

Our representation gives us the opportunity to offer our know how where it is most needed: close to our customers. Bosch Rexroth is represented in over 80 countries, has sales and service subsidiaries in 37 countries and 85 production facilities in Europe, Americas and Asia/ Pacific. You can find your partner on www.boschrexroth.com



Civil Engineering Technology
Hydraulic Technologies in Civil Engineering



Dredge Technology
Driving Dredgers, a Strong Tradition



Energy Technology
Control Systems for the Turbine Sector



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Materials Handling Technology
Masses in Motion



Motion Technology
Creating the Illusion of Reality



Naval Technology
Handling at Sea



Offshore Technology
Though Business in Rough Water



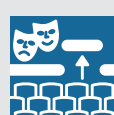
Research Technology
Controlling Waves, Vibrations and Torques



Shiplift Technology
Handling Gigantic Masses



Special Technology
Special Solutions for Special Demands



Stage Technology
Standing Ovations



Testing Technology
Putting Ideas into Practice



Transport Technology
Moving Knowledge on Track



Special Projects
From Scratch to Match



The Fun of High Tech

Nowadays, Theme Parks target for high capacity, unique experiences, safety and reliability. This requires first class equipment suppliers to combine these demands in one exciting attraction. Bosch Rexroth, division Systems & Engineering, is your partner for the supply of tailor made Drive and Control solutions and mechanical structures, to put your attraction in motion. From Flying Theaters to worlds largest Ferris Wheel Drive & Control Systems and from Motion Rides to Roller Coaster Launch Systems, Bosch Rexroth Systems & Engineering is your partner when it comes to Drive & Control.





Bosch Rexroth Systems & Engineering works with leading third party certification institutes, such as TÜV, DEKRA and many others, which can be included from concept design to final testing and hand over of the system.

Bosch Rexroth Systems & Engineering teams with leading parties in the Entertainment market, to provide you a complete turn-key attraction.

Bosch Rexroth, Systems & Engineering is your Drive & Control partner in the ever higher demanding Entertainment Industry.



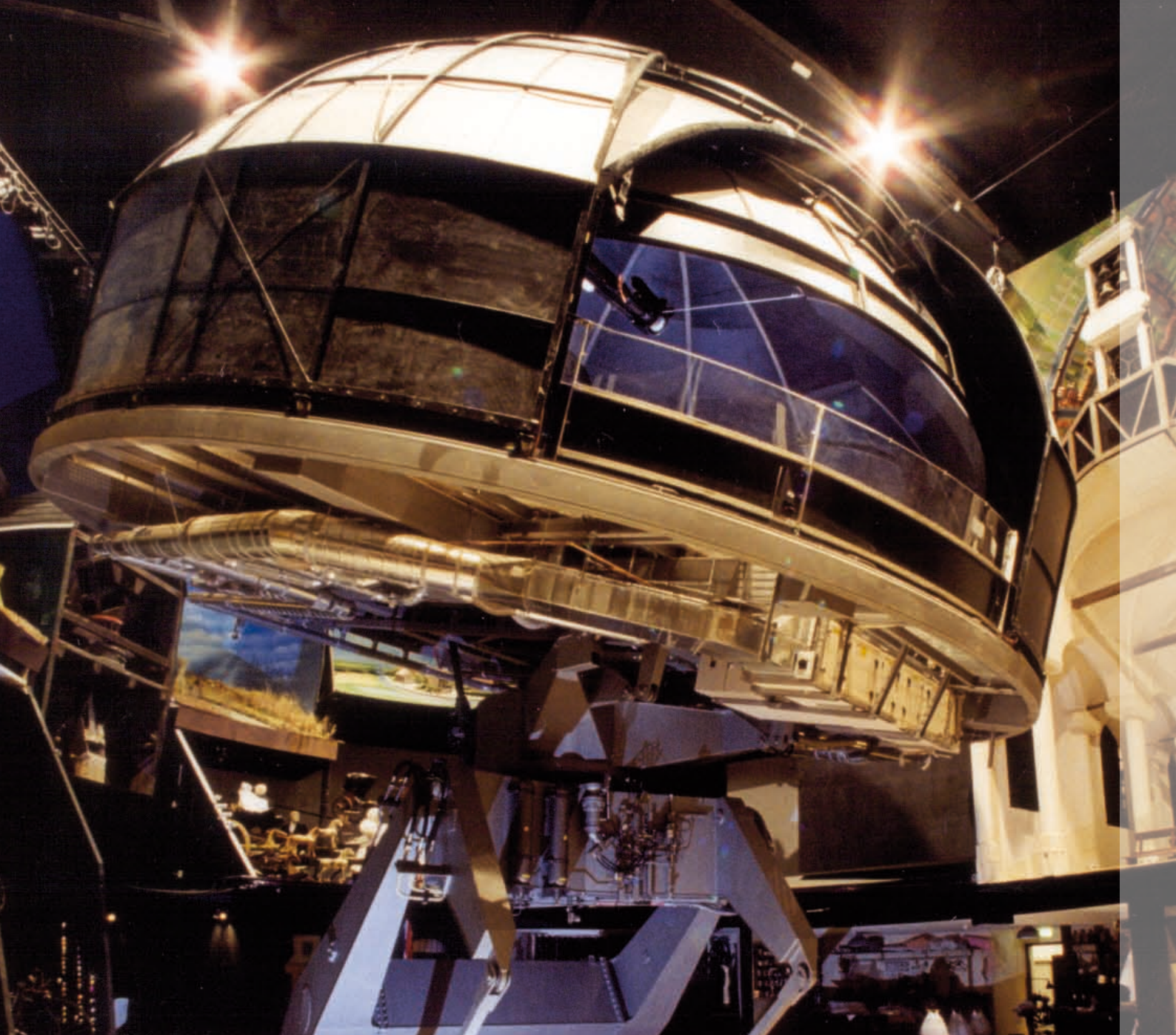
*Coverphotograph:
with courtesy of: Hollandia BV
Krimpen a/d IJssel*

Standard Motion Systems

Bosch Rexroth offers a wide range of standard electric driven Motion Systems. Most of the Motion Systems were originally developed for the professional simulator industry and offer ultra realistic motion performance for the entertainment industry.

Unique in the entertainment industry are our TÜV certified electric Motion Platforms for standing audiences. With only small movements enormous effects can be achieved. Exciting and fun to ride!





*3-DoF Electric Motion Ride System
with INDRADRIVE HMS01 electric motors.*



Customized Motion Platforms

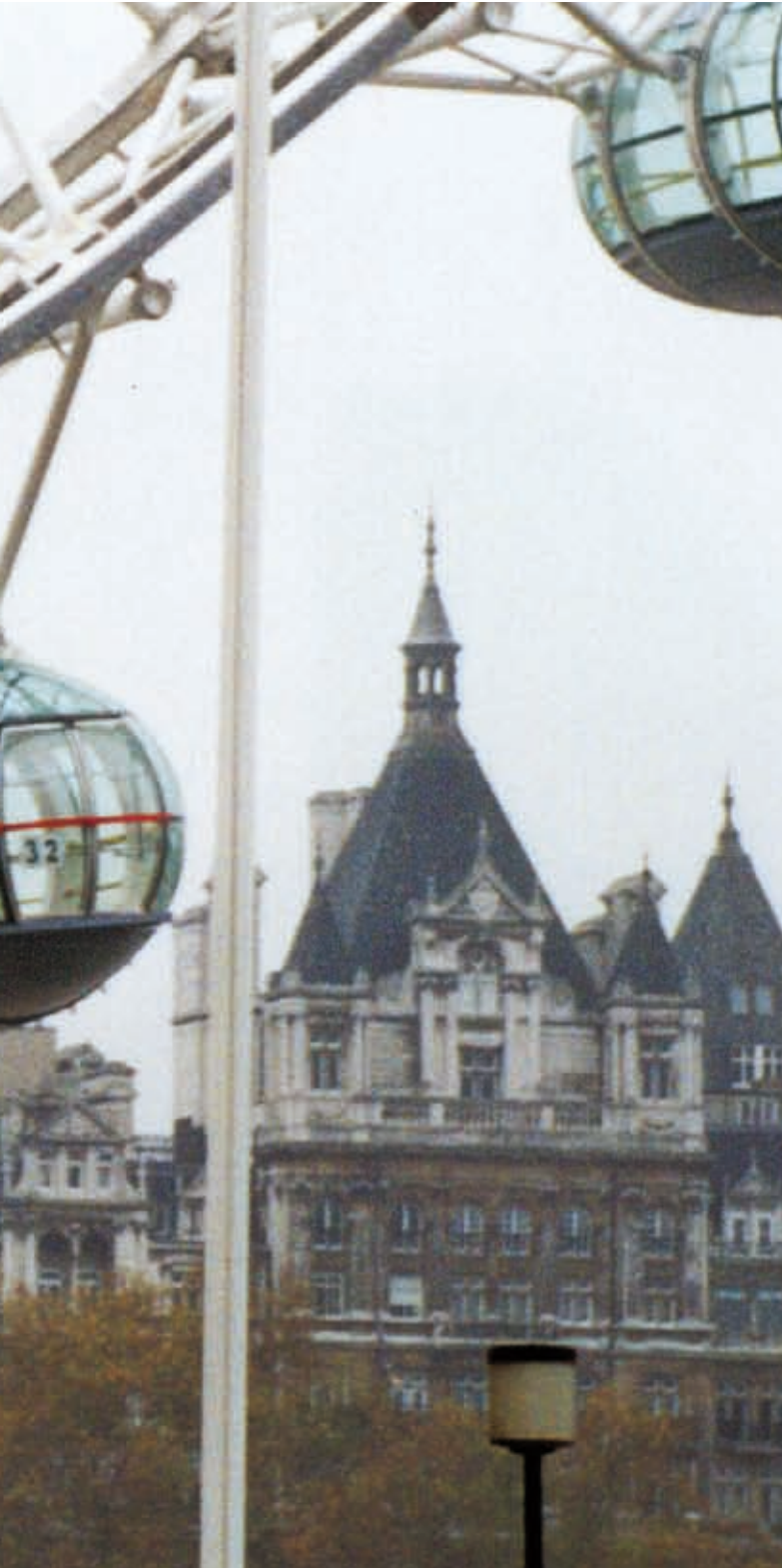
Bosch Rexroth is specialized in supplying customized Motion Platforms to the entertainment industry, where the slogan: “from scratch to match” applies best.

We transfer creative ideas into feasible and cost efficient technology.

The TEA awarded Rexroth Flying Theater is a clear example of what we can offer in terms of customization.



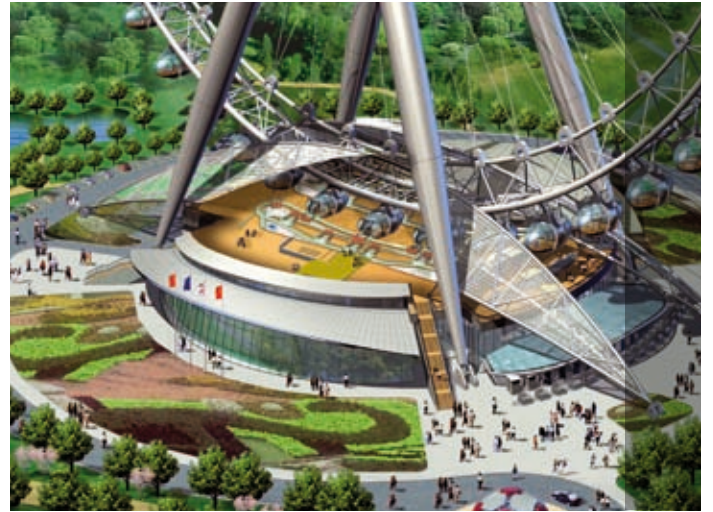
Drive System with Rexroth main pump type
A4VSG 355 HS



Observation Wheel Drive Systems

Bosch Rexroth provided the complete Drive & Control System for the London Eye and has been selected to drive and control the worlds largest Observation Wheel (The Great Beijing Wheel). We offer optimum reliability and availability, but above all a fail safe system.

For smooth boarding and unloading of the capsules, Bosch Rexroth offers automatic boarding and unloading systems, which increase the amount of passengers per hour riding the Wheel, which again increases turn-over for the operator.





*Topple Tower Drive System
with Rexroth pump A2FM90*

Customized Attraction Drive & Control Systems

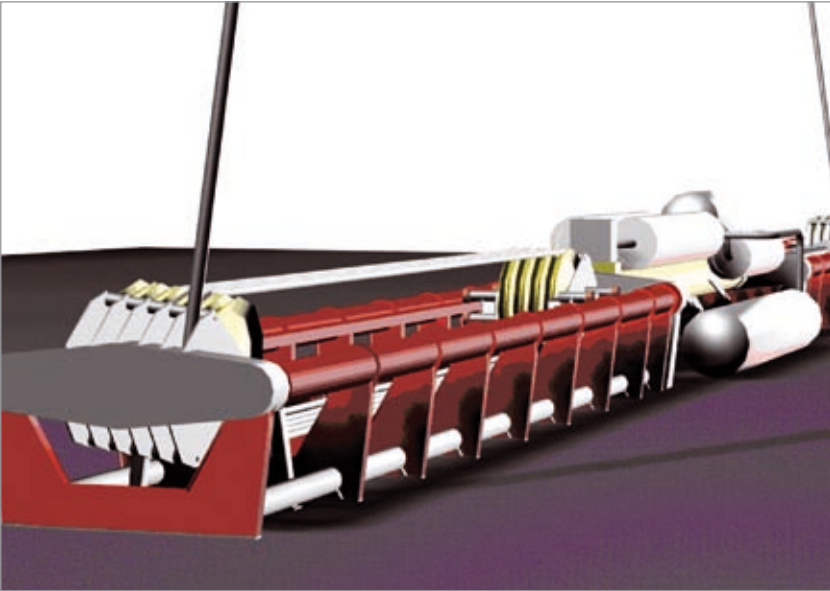
If your attraction needs (for example) to tumble, swing, rotate, spin or roll, it requires a Drive & Control System.

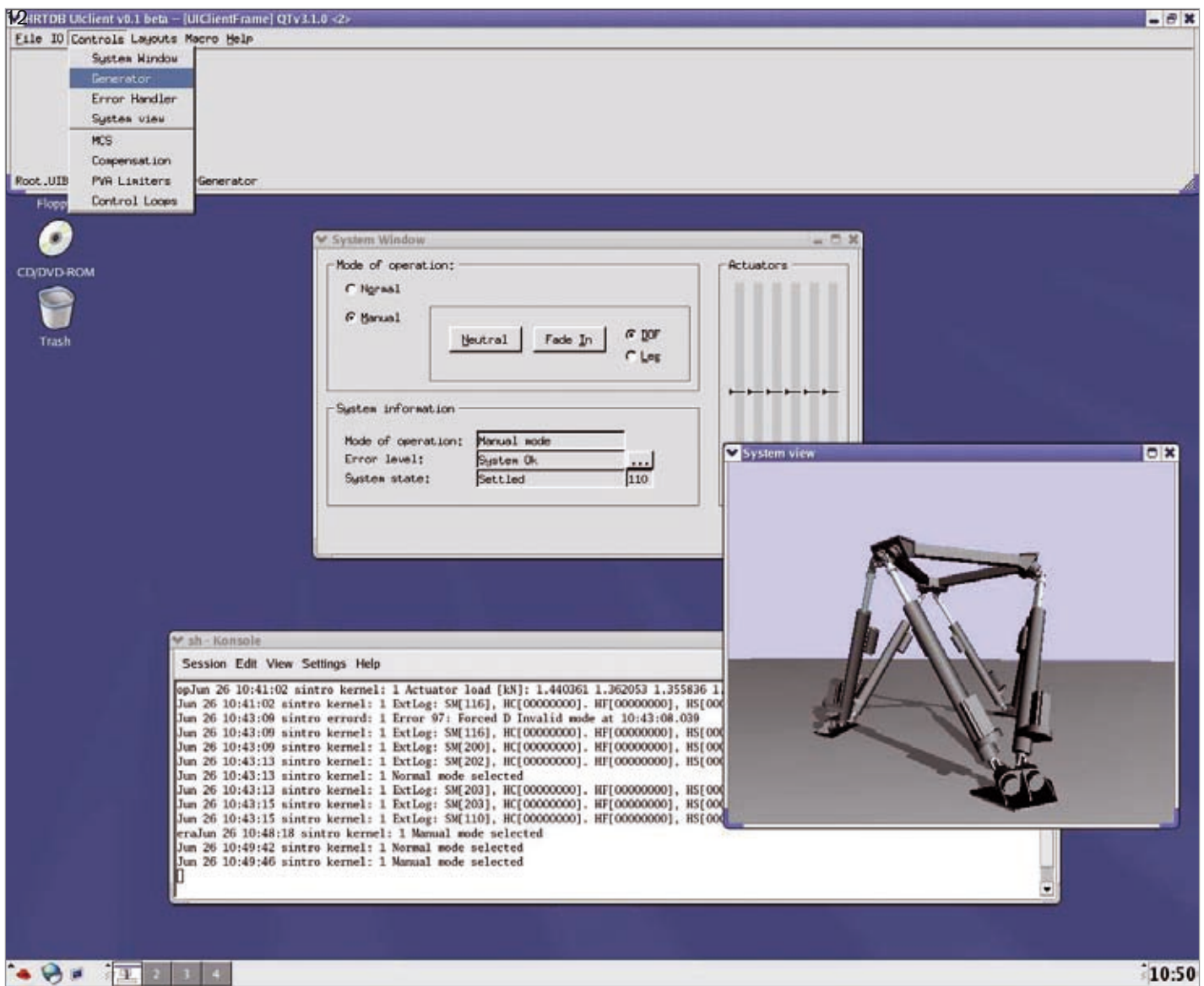
Bosch Rexroth offers the entertainment industry smart, fail-safe and power efficient Drive & Control solutions for any theme park attraction.

All our Drive & Control Systems received TÜV approval.

Rollercoaster Launchers

For the medium capacity roller coasters, electro-magnetic launchers are used to launch roller coaster trains. Such a launch draws high peak powers up to 2 MW. For larger capacity roller coaster, with larger and heavier trains, an electro-magnetic launcher would draw too much power. For these high capacity coaster, Bosch Rexroth developed a hydraulic launch system which is capable of accumulating required power in between the launches. This allows for heavy (high capacity) train launches within the limitations of the power net.





Ride Programming

For Motion Ride Simulators, Bosch Rexroth delivers the motion systems with in-house designed motion control software. The motion control software controls the movements of the motion system and also provides many features for maintenance, self-diagnostics and trouble shooting.

To make a motion ride realistic, enjoyable and spectacular, the motion system movements shall at all times correspond precisely with the presented film. Bosch Rexroth is specialized in programming a motion file which ensures movements which are accurately synchronized with the film.

Bosch Rexroth around the corner

Availability and reliability of a funpark attraction is of high importance for the operators and the guests. To ensure the highest level of availability and reliability, only the best pneumatic, electric or hydraulic components of Bosch Rexroth are applied. The standard Bosch Rexroth Drive & Control components are world-wide supported and standard of the shelf available world-wide from local Bosch Rexroth offices.

To ensure optimum availability of your attraction, our world-wide Bosch Rexroth Service organization is stand-by around the clock, seven days a week to be of assistance.



**Rely on service
across technologies**



**Work with Rexroth
and choose quality**



**Benefit from
competence and
motivation**



**We want this world
to stay worth living in**

Intelligent Hydraulics in New Dimensions

Whether it's a case of raising or lowering loads smoothly, undertaking linear or rotational movements, achieving even acceleration or accurate positioning, maintaining preset speeds, transmitting power or linking motion sequences – in fact, wherever economical power is required, this is where hydraulics comes into its own.

Rexroth is technology and market leader in industrial hydraulics with an extensive product program and proven applications know-how. With the widest selection of hydraulic products in the world, Rexroth will provide you with standard products, application-orientated systems and customized solutions of the highest quality. Furthermore, with the aid of the latest micro-electronics, Rexroth has made hydraulics even more powerful than ever.

Rexroth is the ideal partner if you want to develop highly efficient machines and production facilities – from the first point of contact right through to commissioning and across the complete life cycle. Teams operating worldwide will take on the complete project design work of your systems, even producing a turnkey solution if required.

Whether it's competent support on the telephone, urgent repairs or supply of spare parts, or a callout by one of our engineers – whichever service you require, experienced personnel and a worldwide service network will guarantee that the problem is swiftly solved.

Using hydraulic drive and control technology from Rexroth will help you become more competitive than ever.

The Drive & Control Company

Rexroth is unique. No other brand on the world market can offer its customers all drive and control technologies, both on a specialized and integrated basis. We are considered to be the worldwide benchmark when it comes to drives, controls and motion. Our technological leadership is continually setting us new challenges, with approximately 28,000 employees in more than 80 countries around the world. This is possible thanks to an infrastructure designed with partnership and customer proximity in mind.

As a company Bosch Rexroth can look back on more than 200 years of tradition. As a wholly owned subsidiary of Robert Bosch GmbH, we are part of a globally operating technology group. All this is both our drive and our commitment. And it is unique – just like Bosch Rexroth. The Drive & Control Company.

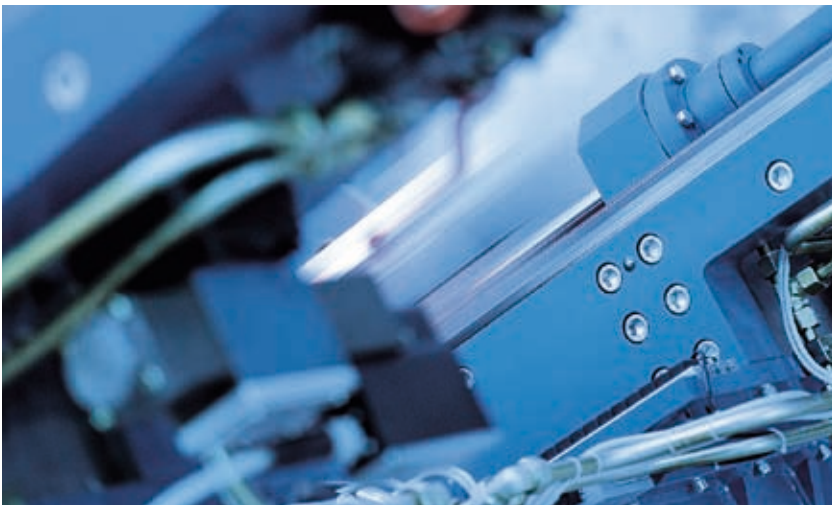
Electric Drives and Controls

Hydraulics

Linear Motion and Assembly Technologies

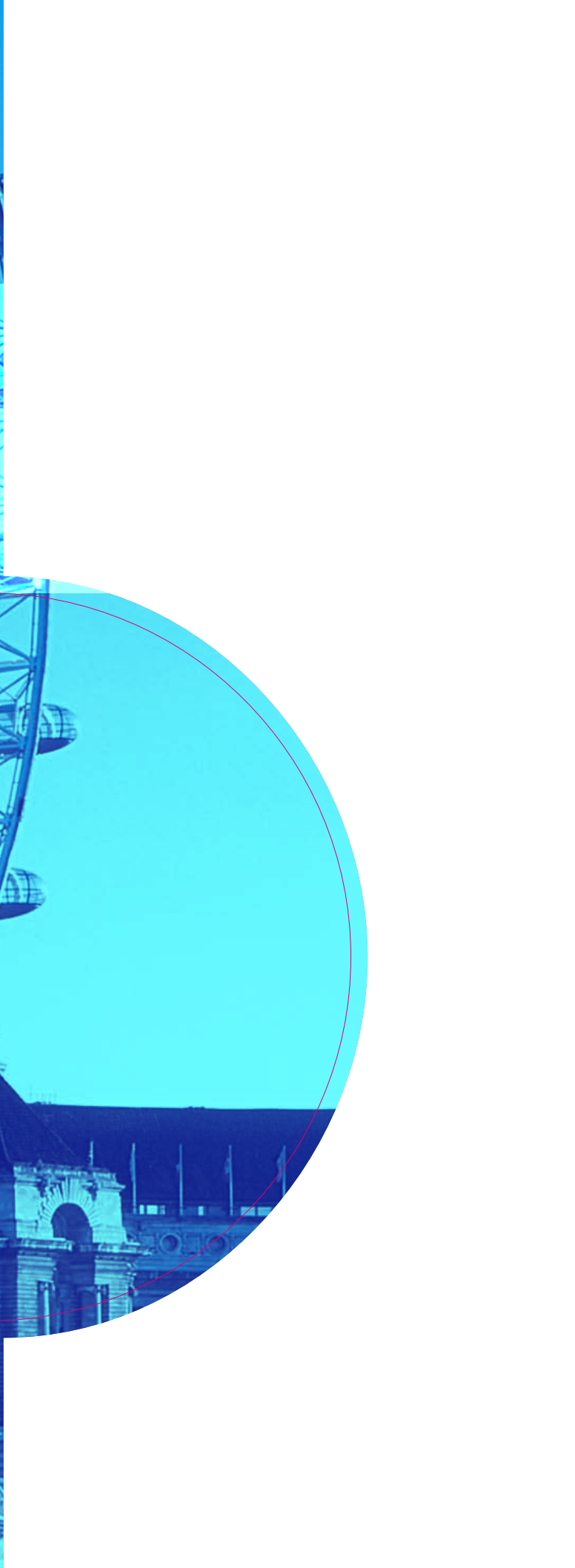
Pneumatics

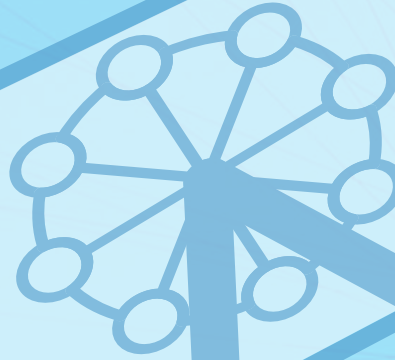
Service





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CD ROM





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