

STAGE SYSTEMS

MULTIPURPOSE VENUES

waagner
STAGE
SYSTEMS biro

COMPETENCE INNOVATION PERFORMANCE

YOUR PARTNER WORLDWIDE FOR:

- any size of project up to technical landmarks
- ensuring a smooth production workflow
- fast track renovations with minimal closure times
- customized solutions

WELL KNOWN FOR:

- technical competence
- trouble free execution
- performance & quality
- covering the whole life cycle
- C·A·T control

FACTS

- > 10.000 drives installed
- > 15.000 performances /year in more than 40 countries - 100% executed with Waagner-Biro Stage Systems equipment
- > 60 experienced mechanical engineers



FROM TRADITION TO INNOVATION

In 1854 Rudolf P. Waagner and Anton Biró each founded a workshop in Vienna. These two small enterprises merged and developed into the Waagner-Biro Stage Systems GmbH. Waagner-Biro Stage Systems' core competence since these beginnings has been steel construction, mechanical engineering, facade work and electrical engineering. Over the years Waagner-Biro Stage Systems specialised in the field of stage machinery, where we have become a global player.

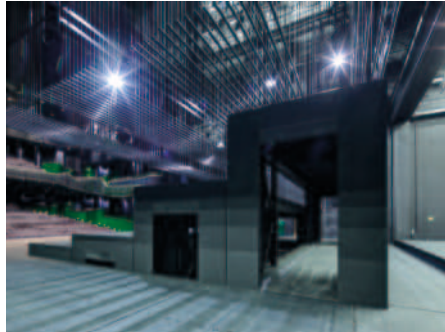
The company's growth began with the rebuild of the Vienna State Opera and the Burgtheater after World War II and came to the world's attention between 1963 and 1972, when we planned and built the stages for the Sydney Opera House in Australia. This was followed by projects on every continent, for example in Seoul/Korea, Manaus/Brazil, Berlin/Germany, Hong Kong/China, Moscow/Russia, Caracas/Venezuela, Madrid/Spain, Vienna/Austria etc.

Our success was due to our constant readiness to be innovative and our close cooperation with our customers. Traditionally, we pay great attention to long-term partnerships with theatres around the world.

Nowadays it's impossible to imagine a theatre without a modern and safe control system as the digital era didn't stop in front of theatres. It was more than 30 years ago that Waagner-Biro Stage Systems started to develop its own control system C·A·T. Mid of 2017 Waagner-Biro Stage Systems introduced the actual version C·A·T v5 keeping its position as a market leading stage company.



PORTFOLIO



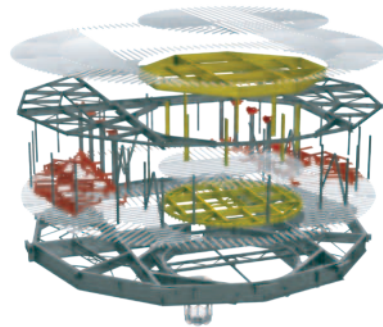
LOWER STAGE MACHINERY

Waagner-Biro Stage Systems makes customers' visions come true: no matter how specialised and demanding. Waagner-Biro Stage Systems offers lower stage machinery solutions for:

Single-deck and double-deck platforms based on lifting mechanisms such as 'Spiralift', 'Linklift', or scissor-type. For fast and silent running Waagner-Biro Stage Systems relies on rope winch drive technology.

Revolving stages, especially for demanding lower stage machinery, which combine revolving stages with inserted platforms or revolving disc.

For surprise appearances Waagner-



Biro Stage Systems has developed a movable **actor's lift** with a lifting speed of up to 0.5 m/s.

Stage waggons, which are particularly important for rapid scenery changes, are another Waagner-Biro Stage Systems speciality. These are driven passively and therefore require no power cabling.

This system has proven its reliability and accuracy in two dimensions at the Copenhagen Opera House. Moreover, Waagner-Biro Stage Systems has developed revolving disc waggons that can be split either for easy storage or to be used as individual stage waggons.



UPPER STAGE MACHINERY

Waagner-Biro Stage Systems combines fly bar and point hoist solutions to provide optimum overall upper stage machinery solutions.

Waagner-Biro Stage Systems **fly bar solutions** meeting the latest safety standards for theatres include:

- **Super silent horizontal winches**, operating with specially developed silent motors, brakes and gear boxes
- **Vertical winches** called driving axles for wall mounting ensuring 0° fleet angle
- Extremely space-saving **pile winding winches** for applications with lower lifting heights



- And **Flexifly**, the modular line shaft hoist, perfectly suited for applications requiring an economic lifting solution.

Point hoist solutions by Waagner-Biro Stage Systems include fixed point hoist winches with movable pulleys as well as:

- **Movable point hoists** with extension arm, which are easy to roll on the grid and provide maximum positioning flexibility for lifting point loads
- The **FLY**, a fully integrated point hoist combining winch unit, power electrics and control in one box. This lightweight 175 kg hoist can be positioned on the grid but is also perfectly suited to being suspended on a crane beam system



ACOUSTIC SOLUTIONS

Modern concert halls demand maximum flexibility since they accommodate a multitude of musical events ranging from small chamber ensembles to large symphony orchestras. To allow flexible adaptation of hall acoustics, Waagner-Biro provides acoustic solutions such as:

- **Canopies** with flexible movement mechanism allowing lifting and tilting, which may additionally be equipped with automated flaps for loud-speaker clusters and lighting bars
- **Banners** based on rolling or folding systems with a length of up to 18 m for concert halls or reverberation rooms
- **Acoustic door mechanism** for reverberation rooms. Waagner-Biro Stage Systems' solutions combine minimum space requirements with maximum precision.



CONTROL SYSTEM

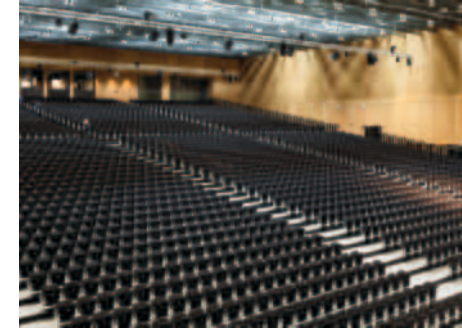
The Computer Aided Control System is based on a modular decentralized control approach based on:

- **Redundant servers** on which all shows are stored and which feed the distributed axis controllers
- **Axis controllers** for each motor. These axis controllers with double processing units fully comply with SIL3 requirements [EN61508]. The results of both processing units are compared continuously and action on the actuators is only initiated if the results are equal
- A portfolio of **control panels** suited to various operation scenarios. The products range from double screen operator desks for central operation and programming to wireless



mobile remote control panels for local operation of fly bars and other machinery

- **Redundant network** to ensure highest availability during operation. Even if one network is down, functionality of the equipment is guaranteed
- **Telemaintenance:** if required, servers regularly send comprehensive status information to Waagner-Biro Stage Systems Automation. Experts evaluate the information and inform the customer about potentially upcoming defects, which in turn considerably increases the reliability of the whole system



TELESCOPIC SEATING

Contemporary venues from stadiums to congress centres, from arenas to concert halls, need to support multi-functional use. Based on customer requirements, Waagner-Biro Stage Systems designs appropriate **telescopic seating solutions**, satisfying even the most exceptional demands, such as mobile and transportable units, stowable, lifting or turntable units and systems with variable heights.

During the design phase, Waagner-Biro Stage Systems works with partner companies to satisfy equally demanding requirements in terms of seating ergonomics and architectural finish. Completing the portfolio, Waagner-Biro Stage Systems offers a multitude of tailor-made venue equipment such as **sliding or lifting walls**.



FREIHEITSHALLE HOF HOF, GERMANY

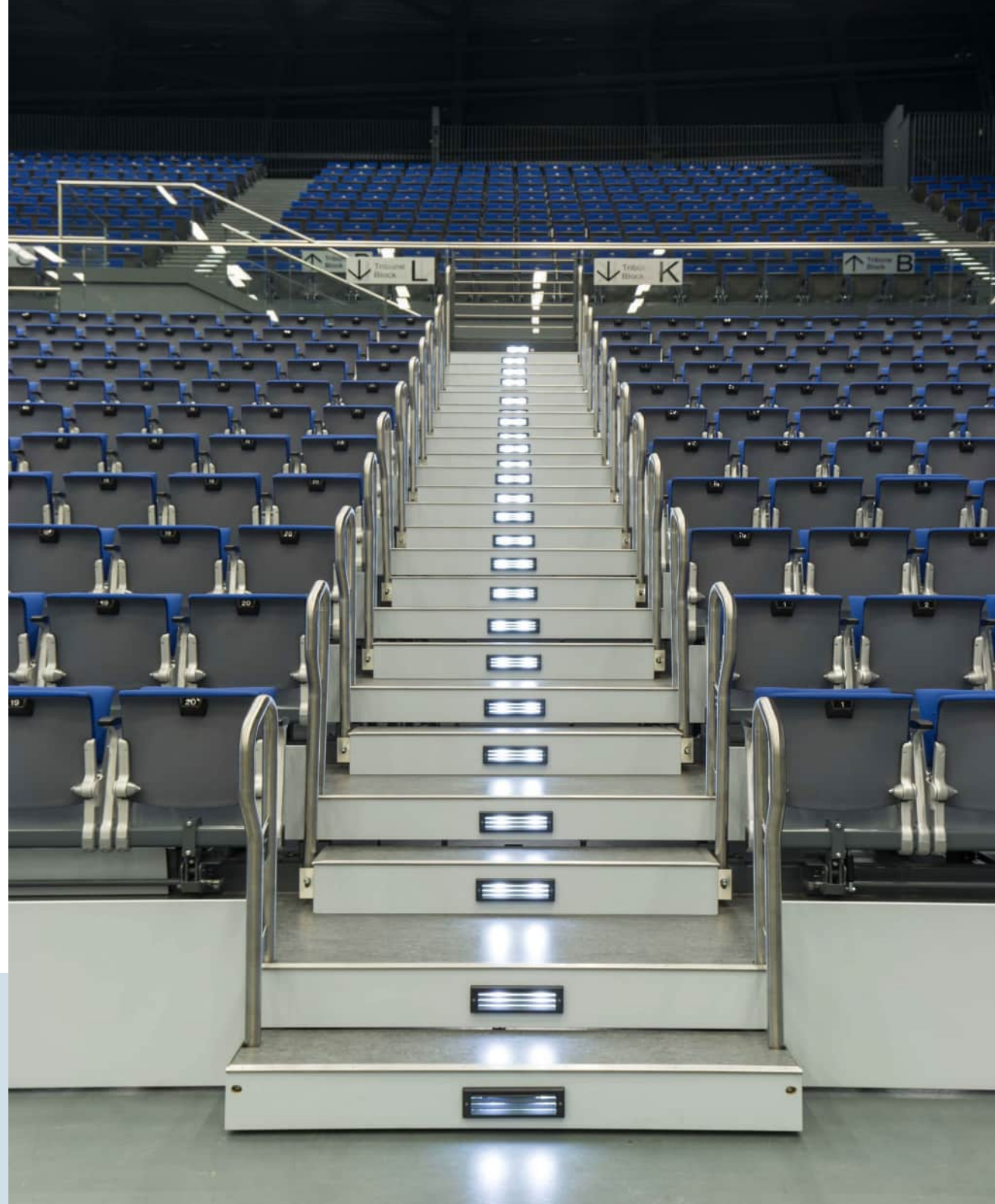
The Freiheitshalle lies in the middle of the city Hof and is the largest event hall in city and district Hof. The hall offers modern event technology in conjunction with perfect infrastructure for really any kind of event. These can also take place in parallel (such as a rock concert in the "Great House" and at the same time a classical evening in the ballroom) without mutual interference.

The "Great House" as the centrepiece of the Freiheitshalle offers space for over 6,000 visitors and can be used multifunctionally. The seating is next to a fixed rank arranged by a retractable seating system. The room can be adapted to the respective requirements by the two mobile telescopic seating blocks (each 11 rows of seats, a total of 880 seats) adapted to the respective requirements and is controlled by the Waagner-Biro Stage Systems C·A·T control.

The project was successfully handed over to the customer in October 2018 (8 months after placing the order).

AT A GLANCE

- 2 mobile telescopic seating blocks - each 11 rows of seats
- 880 seats in total
- Dimensions: approx. 47.12 m (w) x 4.3 m (h) x 9.9 m (l)



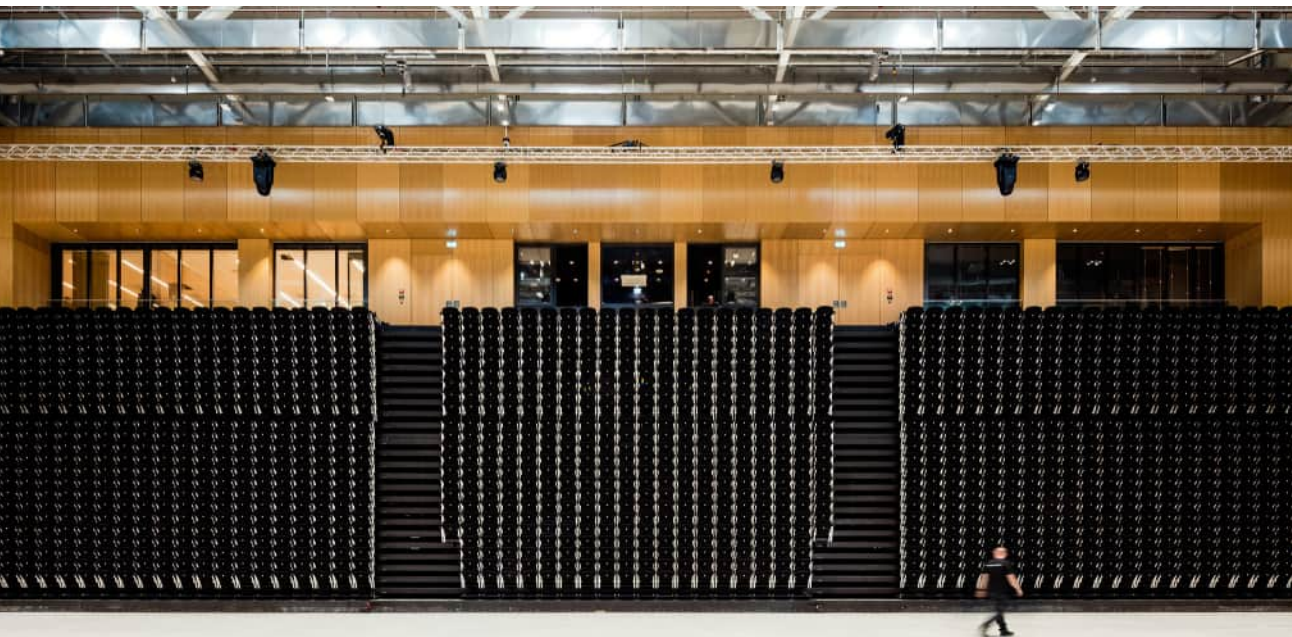


RHEINMAIN CONGRESSCENTER WIESBADEN, GERMANY

The RheinMain CongressCentre (RMCC) in Wiesbaden opened on April 13th, 2018 equipped with a seating system and stage machinery provided by Waagner-Biro Stage Systems. As flexibility is key in the new convention centre, the concepts developed for this venue provide a range of configurations with flexible seating, walls and floors. The unique architecture and the flexible space concept provide the optimum conditions for events up to 12,500 people.

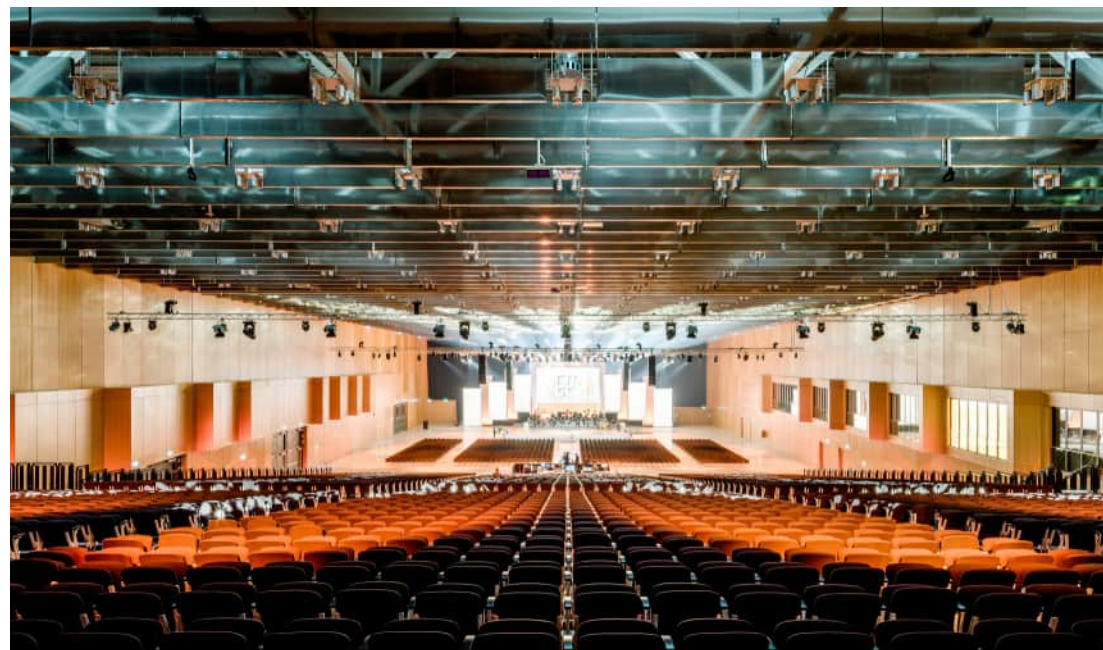
The RMCC consists of two function halls (Hall North 4,600m²; Hall South 2900m²) separated by a common foyer. The North Hall has an automated telescopic seating system consisting of 3 blocks 39 metres wide that deploy a total of 2,924 seats over a distance of 48 metres. The height of the seating blocks is 8.0 m, with a step rise of 160mm, the seats are fully upholstered and are raised and lowered automatically. When retracted the depth is 3.6 metres, each block weighs 100 tons, and is automatically transferred to the storage area behind timber veneered doors.

The tribune and the stage machinery are integrated in the Waagner-Biro Stage Systems C·A·T control system.



AT A GLANCE

- 3 telescopic seating blocks with folding chairs - in total 50 rows
- Dimensions: approx. 39m (w) x 8m (h) x 48m (l)





BUSINESS CENTRE SKOLKOVO MOSCOW, RUSSIA

Business Centre in Skolkovo - a multifunctional building in the heart of Skolkovo. The main feature of the building is the 48-metre-tall atrium space with a spiral ramp. It can be quickly transformed into a conference hall, theatre scene or exhibition area.

Waagner-Biro Stage Systems provided a complex lifting platform system for high performance audience use. The building is equipped with a circular floor plan in its interior and a multifunctional platform configuration consisting of 11 platforms with several secondary platforms incorporated at ± 0 m level where different types of event can take place. The diameter is 19.8 m and the lifting height of the variable platforms goes up to +4.5 m.

The upper stage machinery has been equipped with a 6D flying system. Up to 16 point hoist winches can be used for simultaneous 3D or 6D movement. This allows control of not only position, but also roll, pitch and yaw axis of a flying object driven by eight winches. Furthermore, it is possible to have multiple objects flying at the same time.

The entirety of the upper stage machinery is integrated into the C·A·T control system.

In Summer 2017 the new and ultra-modern business centre celebrated its opening.

AT A GLANCE

- 11 main platforms (scissor guided), 29 secondary platforms (screw jack driven)
- 3D and 6D flying system
- Individual configuration for approx. 300 seats





ELBPHILHARMONIE – MULTIPURPOSE HALL HAMBURG, GERMANY

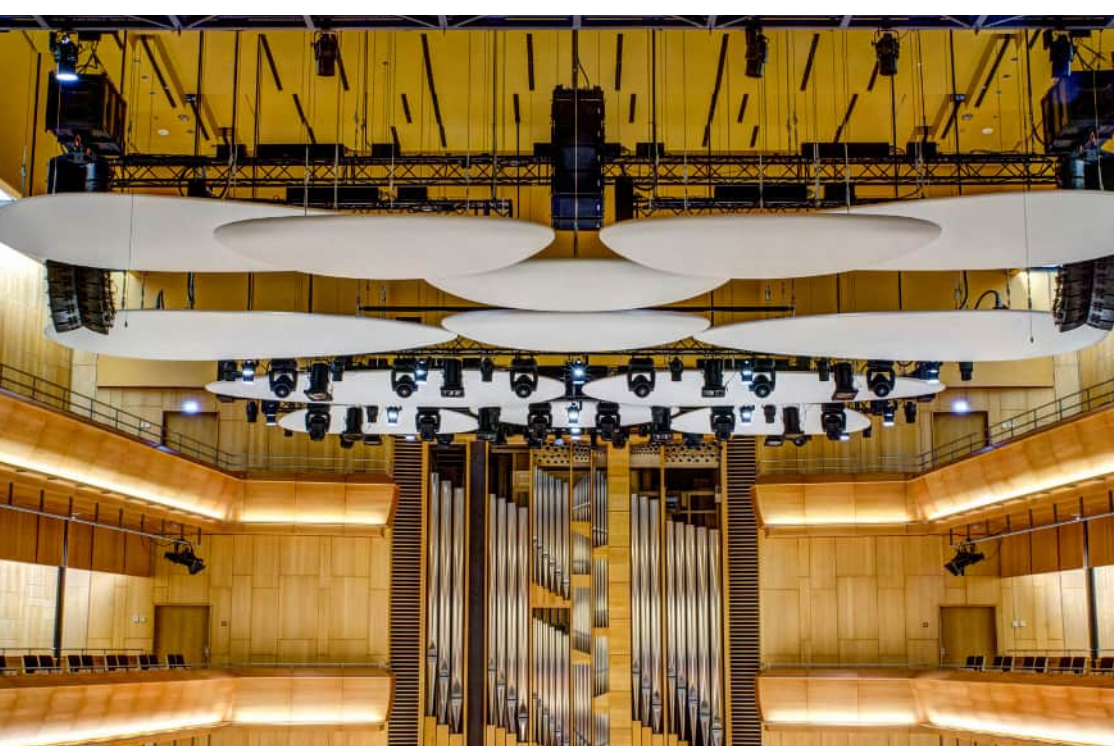
The heart of the Elbphilharmonie is one of the most exciting architectural challenges in Europe: a world-class concert hall with 2,150 seats at a height of 50m above the Elbe. Then there is a smaller concert hall for up to 550 visitors and the Kai Studio for about 170 visitors. The Elbphilharmonie should join the ranks of world-famous homes to the performing arts like the Golden Hall of Vienna's Musikverein, the Berlin Philharmonie Concert Hall and the Concertgebouw in Amsterdam. The hall was handed over in October 2016.

The smaller hall is equipped with the latest stage system technology integrated in the C·A·T control system. Waagner-Biro Stage Systems installed 18 scissor driven platforms, a telescopic stand system, 7 scenery hoists, a winch for a movie screen, and 25 adjustable acoustic banners to provide the hall with the best possible acoustics.

AT A GLANCE

- 550 seats
- 18 scissor driven platforms, 25 adjustable acoustic banners, 7 tubular shaft hoists
- Telescopic stands with 17 rows



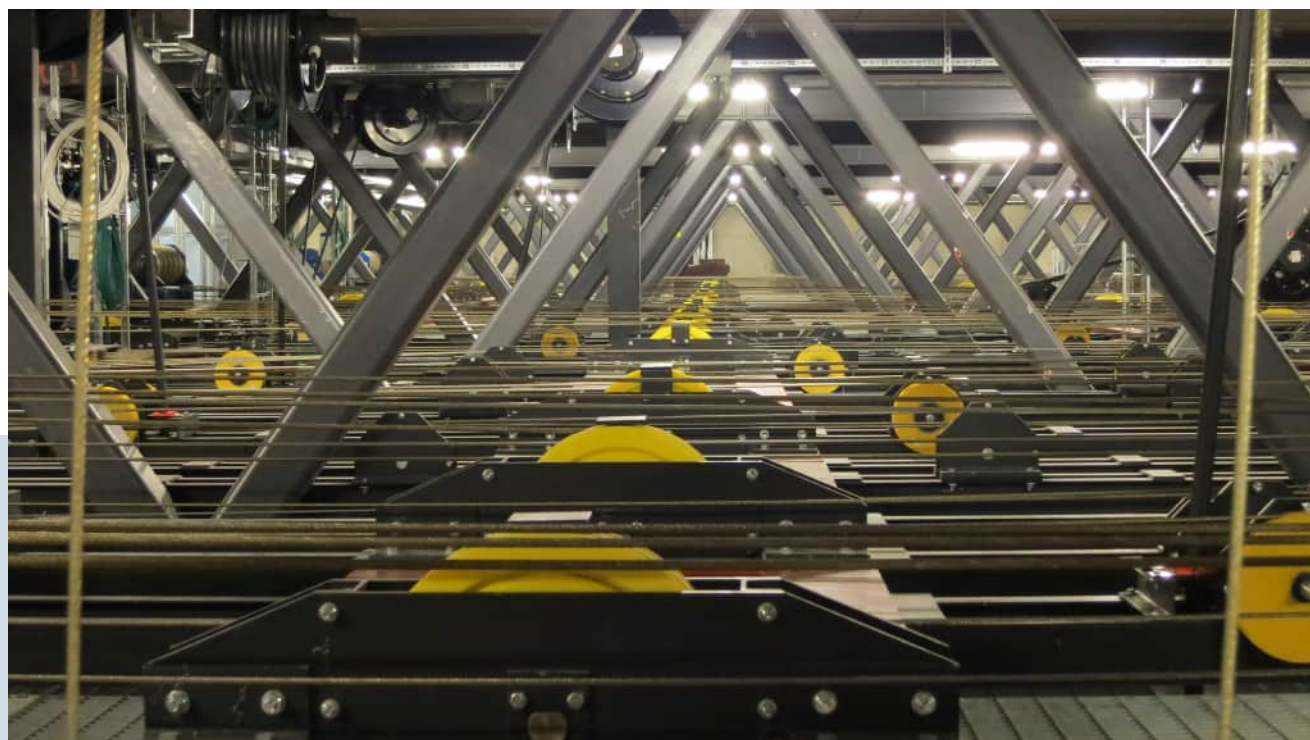


STAVANGER KONSERTHUS – MULTIPURPOSE HALL, NORWAY

The new concert house in Stavanger, inaugurated in September 2012, consists of two concert halls separated by a footpath. The red concrete box with its natural acoustics is a concert hall suited to the repertoire of symphony orchestras, while the glass box is a multi-purpose hall for louder rock and jazz concerts.

These two complementary halls were designed so as to allow for a classical concert to be performed in one hall and a rock concert to take place in the other at the same time.

The multi-purpose hall can be used for theatrical performances, musicals with fully equipped platform and orchestra pit, as a viewers rank and gallery, or as a flat hall with a stage for rock and pop concerts. It can also be used as a hall with seats with a podium for conferences etc. This hall is equipped with 20 scissor podiums at the back of the stage, six orchestra platforms, three 'Spiralift' platforms, six telescopic seating blocks, 6 chair carriages and 48 hoists in the upper stage machinery. In total, Waagner-Biro Stage Systems integrated 205 adjustable axes into the C·A·T control.



AT A GLANCE

- A retractable seating solution allowing a variety of applications from theatre to catwalk
- 6 orchestra platforms, 20 scissor and 3 'Spiralift' platforms, 48 hoists for two halls





QUANTUM OF THE SEAS, ANTHEM OF THE SEAS, OVATION OF THE SEAS SPECTRUM OF THE SEAS, ODYSSEY OF THE SEAS PAPENBURG, GERMANY

With a length of 335m, the 'Quantum Class' is the biggest cruise ship ever built in Germany. Two of the most attractive places on-board are the 'Royal Theatre' at the bow, as well as the 'Two 70', a multi-media experience space at the stern. The 'Royal Theatre', which accommodates up to 1.300 spectators, boasts 25 computer-steered drives in the smallest of spaces available.

Despite only extremely limited space being available, we were able to mount six scissor-style platforms on the main-stage and a three-part orchestra stage in the 'Royal Theatre'. These are flanked by six indepen-

dently movable stage waggon systems.

And at first sight the 'Two 70' looks like a chill-lounge with catering and a legendary 270° view of the sea, but in a mere instant it turns into a multi-media show- and adventure-room. The huge panoramic glass front is darkened and a seamlessly projected panorama leads the spectator into another world.

A massive robotic arm made by Waagner-Biro Stage Systems on which one can see six high-definition video panels dancing, is then silently lowered from the ceiling. In the

foreground a ring podium with secondary platform rises and turns from the dance floor. Lateral runway-lifts and big oval lifts on the left and the right hand side complement the stage together with three actor's lifts positioned around the room, which makes it possible to let actors appear from the floor amidst the audience. In addition, 4 trap doors are installed in the ceiling.

Waagner-Biro Stage Systems thus won over Meyer Werft as well as the shipping line Royal Caribbean International, both in terms of performance and the quality of its work.

AT A GLANCE

- Two70° - transformative venue with a massive robotic arm for dancing video panels, a ring podium with secondary platform, oval platforms, actor's lifts
- Royal theatre - fully equipped theatre for 1,300 spectators (25 upper stage machinery hoists, 6 platforms and a three-part orchestra platform, C·A·T control)



HARPA REYKJAVIK, ICELAND

The opening of Harpa in May 2011 was an important moment for all of Iceland because it happened during a time of financial insecurity in the country.

For Waagner-Biro Stage Systems the Harpa project was likewise special. The company supplied not only the complete stage equipment for three rooms (Concert Hall, Rehearsal Hall and Fourth Hall), but also supplied impressive acoustics solutions conceived by the architect Henning Larsen.

In cooperation with New York-based acoustic specialists, Artec Consultants, and with the help of innovative technology, Waagner-Biro Stage Systems installed in total 267 eighteen-metre-long acoustic curtains, 78 acoustic gates, 35 tons of mobile acoustic covers and a chorus waggon. This created a perfect and flexible, controllable sound experience, whether for a major opera or for more intimate theatrical drama.



AT A GLANCE

Elaborate system of adaptable physical acoustics, which adjusts hall reverberation using:

- 185 moveable acoustic banners of 18 m
- 264 m² overhead canopies weighing 35 tons
- Doors to hidden reverberation chambers





BMW WORLD MUNICH, GERMANY

BMW World was designed by Austrian architects Coop Himmelb(l)au between 2003 and 2007. Each year, approximately 45,500 vehicles are handed over to their new owners and approximately 850,000 visitors pass through the doors of the venue.

The auditorium equipped by Waagner-Biro Stage Systems is the heart of the BMW World. 33 podiums, 24 machines and lighting hoists and 28 belt and chain hoists that are integrated in the C·A·T computer control make the use of this space highly flexible. At the height graduated and equipped with chairs, podiums create space for cinema and theatre performances, concerts and recitals. As a level surface the hall can be used for exhibitions, banquets, etc.

A wall that can be lowered into the floor allows to separate the auditorium from the rest of BMW World by a soundproof barrier. In addition, Waagner-Biro Stage Systems delivered a radio-controlled turntable dais, movie screens and a special revolving stage.



AT A GLANCE

- 33 podiums with a total surface of 945 m²
- More than 50 upper stage machinery hoists
- Turntable
- 2 cinema screens
- A lifting wall with a dead weight of 30 tons as safety curtain

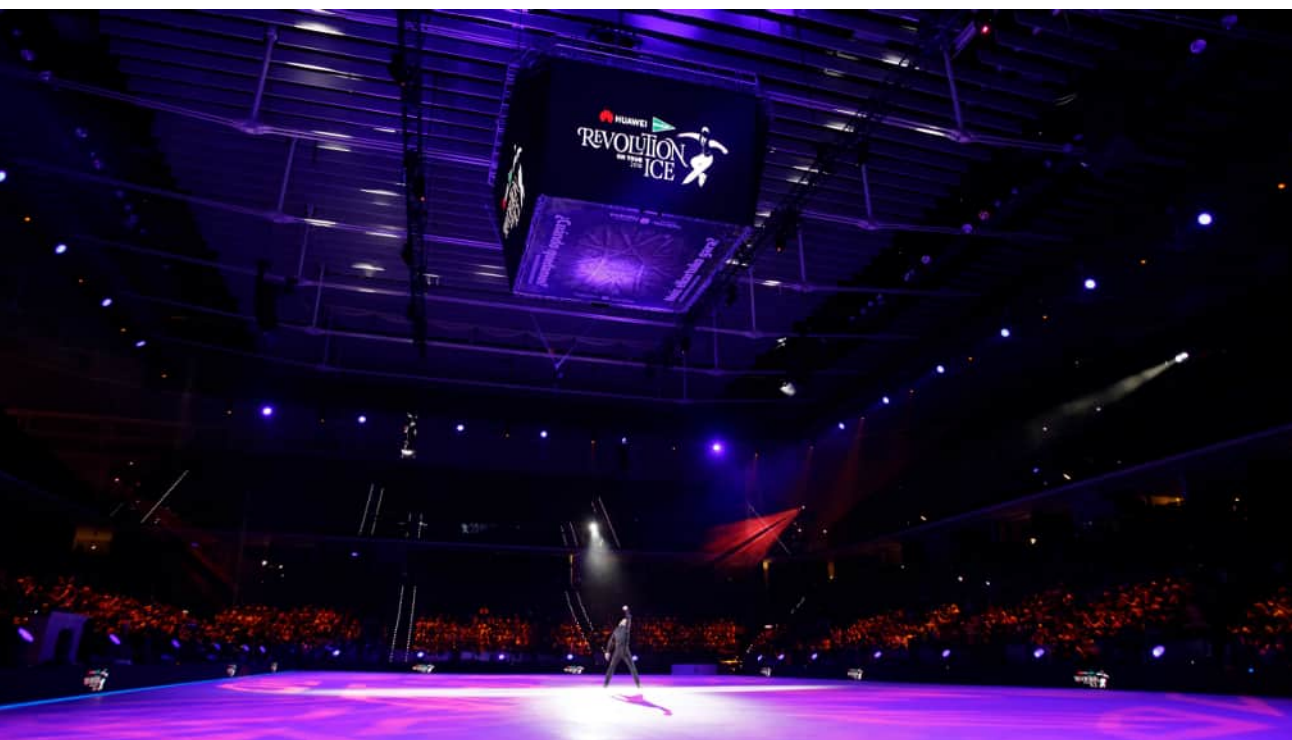


REYNO DE NAVARRA ARENA PAMPLONA, SPAIN

A flexible solution which makes the best possible use of the available space was the brief for the „Reyno de Navarra Arena“ project in Pamplona, northern Spain. Waagner-Biro Stage Systems met this challenge by producing a special design whose „secret“ is hidden beneath the floor. After pressing a button, an otherwise hidden central stand is extended which divides the great hall into a main and a secondary independent arena.

The special feature: the central stand can be rotated using the control system in either one direction or another, depending on which event attracts the biggest audience.

The result is a partly fixed, partly mobile telescopic stand which includes a seat folding mechanism and provides room for up to 12,000 spectators. The required four double-storey main platforms cover a total area of 600m².



AT A GLANCE

- 12,000 seats; 6,500 on retractable system (4 platforms, each 44 x 12 m)
- 11,000 m² area with two independent spaces





AUSTRIA CENTER VIENNA
WELCOME

← ENTRANCE 1
← ENTRANCE 2

AUSTRIA CENTER VIENNA, AUSTRIA

The ACV is one of Europe's leading conference centers and is used for international congresses, corporate conferences, exhibitions, trade fairs and other events with up to 22,800 participants. The existing stage technology at the Austria Center Vienna (ACV) - Austria's largest conference center - was refurbished by Waagner-Biro Stage Systems.

In 2022, ACV commissioned Waagner-Biro Stage Systems with the realization of „drives for LEDs incl. control“ for the new polySTAGE in the entrance hall.

The polyStage consists of a permanently installed kinetic LED installation with over 310 m² with a high-resolution surface. The centerpiece is 52 individual panels arranged in 2 rings, each of which is equipped with a motor via belts to be controlled and moved individually. The two rings are flanked by an LED banner

The entire new kinetic LED installation was integrated into the C·A·T V5 control system.

AT A GLANCE

- 45 double belt hoists
- 17 single belt hoists
- 31 control cabinets
- C·A·T V5 control system



新天地太阳剧场

— SUNTIANDY THEATRE —



HANGZHOU SUNTIANDY THEATER, CHINA

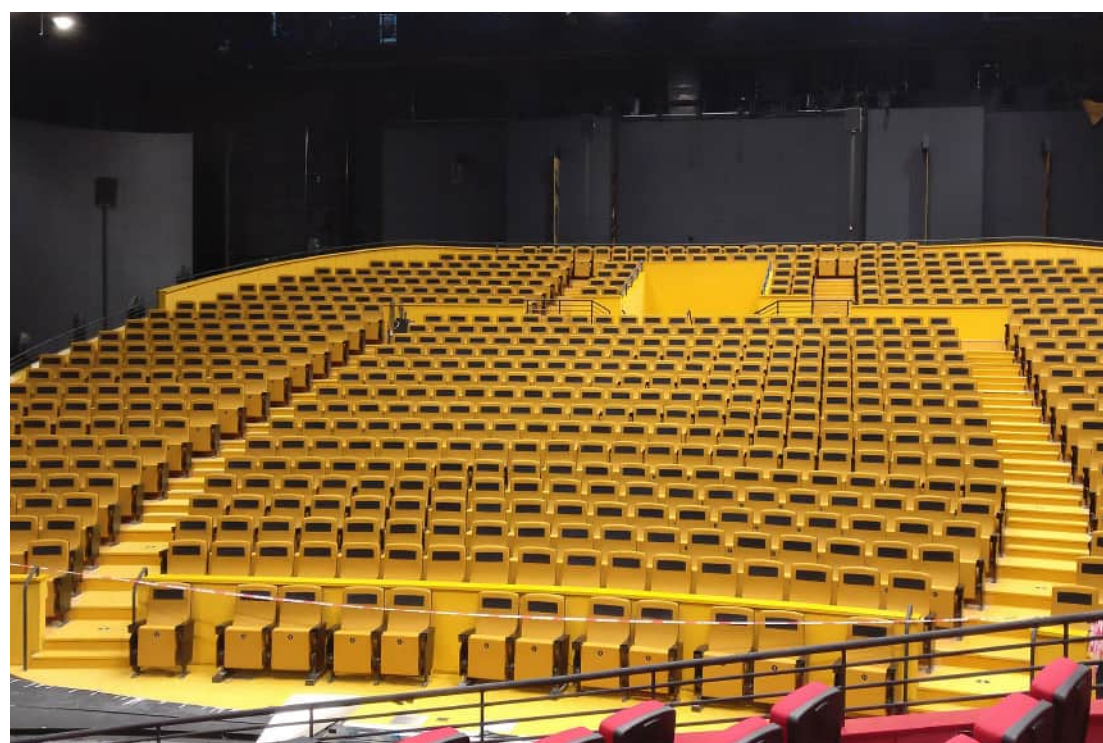
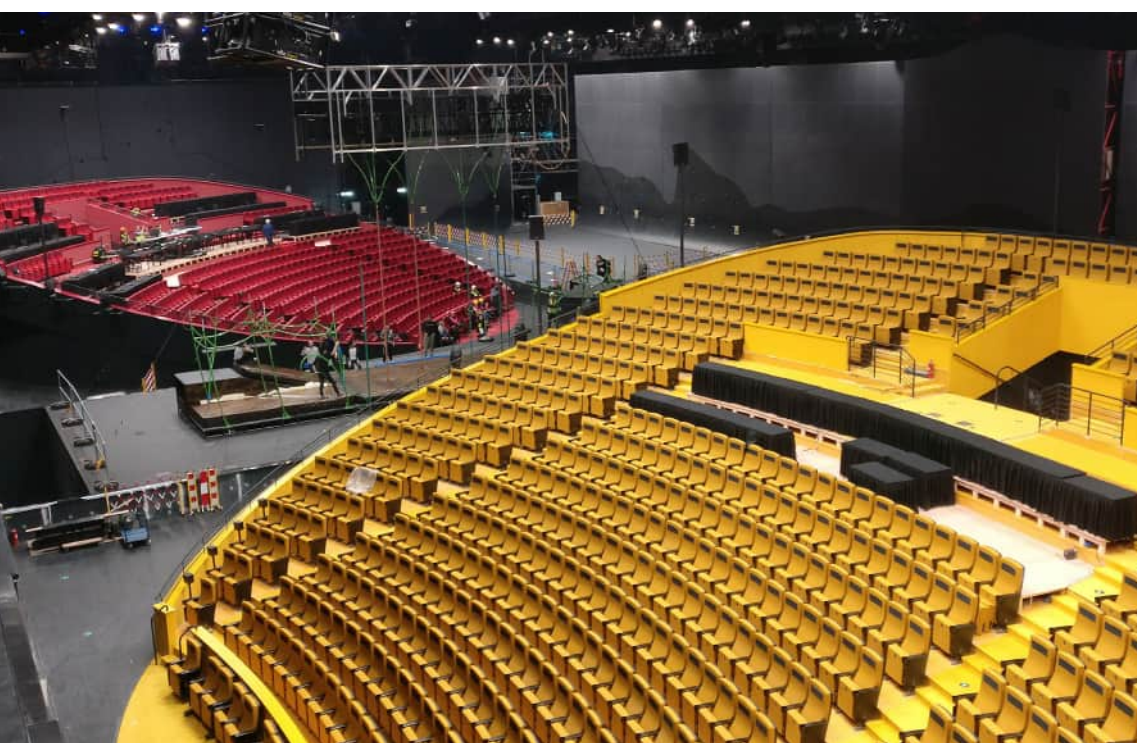
The theater, in a renovated factory on the outskirts of the city, was built by Hangzhou Xintiandi Group, a privately owned developer of tourism and cultural projects across China.

For Cirque du Soleil its first resident show in China in partnership with Hangzhou Xintiandi Group called X: 绮幻之境 (The Land of Fantasy).

Built to host nearly 1,500 spectators, the show theatre is divided in two sets of intimate revolving seating wagons, placing the audience at the very centre of the story and allowing two viewing experiences. This unique 360-degree perspective opens a new world of creative possibilities to tell the story and provides a truly captivating experience for the spectators who follow the action from their seats.

AT A GLANCE

- 2 identical wagons that can move linearly and independently
- the wagons there is a turntable with a seating stand





MERCEDES BENZ ARENA BERLIN, GERMANY

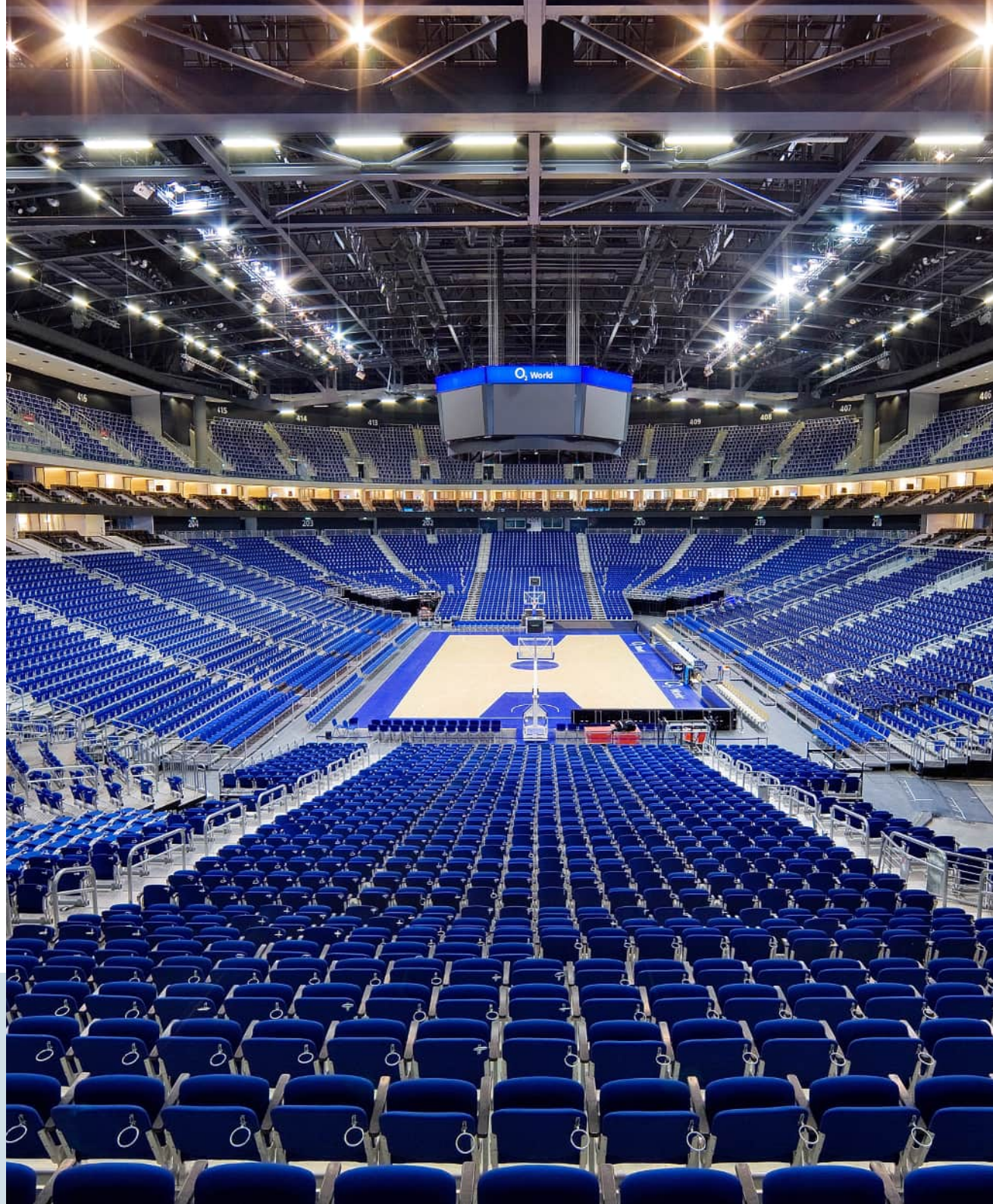
The Mercedes Benz Arena (former O2 World) is one of the most modern multi-purpose arenas in the world. Opened in autumn 2008, this new, 180,000 square-metre event location, built on the former site of Berlin's Eastern Freight Railway Station, can hold up to 17,000 visitors.

And the space in which those people move, can be easily transformed using Waagner-Biro Stage Systems' telescopic stand system. The transformation from one use to another is made using a high degree of automation in the shortest time possible. When it's retracted, the stand with its total of 4,500 seats, takes up a minimal amount of space. This allows the "playing surface" to be increased or reduced in size as required. Whether it's used as a concert hall or as a sports arena, thanks to its modern stage equipment, the Mercedes Benz Arena in Berlin with its approximately 60,000 m² always serves its purpose.

AT A GLANCE

Two systems: Fixed and mobile telescopic bleachers (with special transporters) designed for multiple installation options

- Hockey with 1,586 seats on telescopic stands + standing room
- Basketball with 3,330 seats on telescopic stands
- Different variants with end and middle stage (with or without seats) possible. Very high conversion rate feasible





NORWEGIAN CRUISE LINER "NORWEGIAN PRIMA" & "NORWEGIAN V!VA" (LEONARDO-CLASS)

Norwegian Prima and Norwegian Viva are the forerunners of a new series of four ships, known under the code name „Leonardo“. The 3rd (Norwegian Aqua) and 4th ship in this series belong to the Prima class.

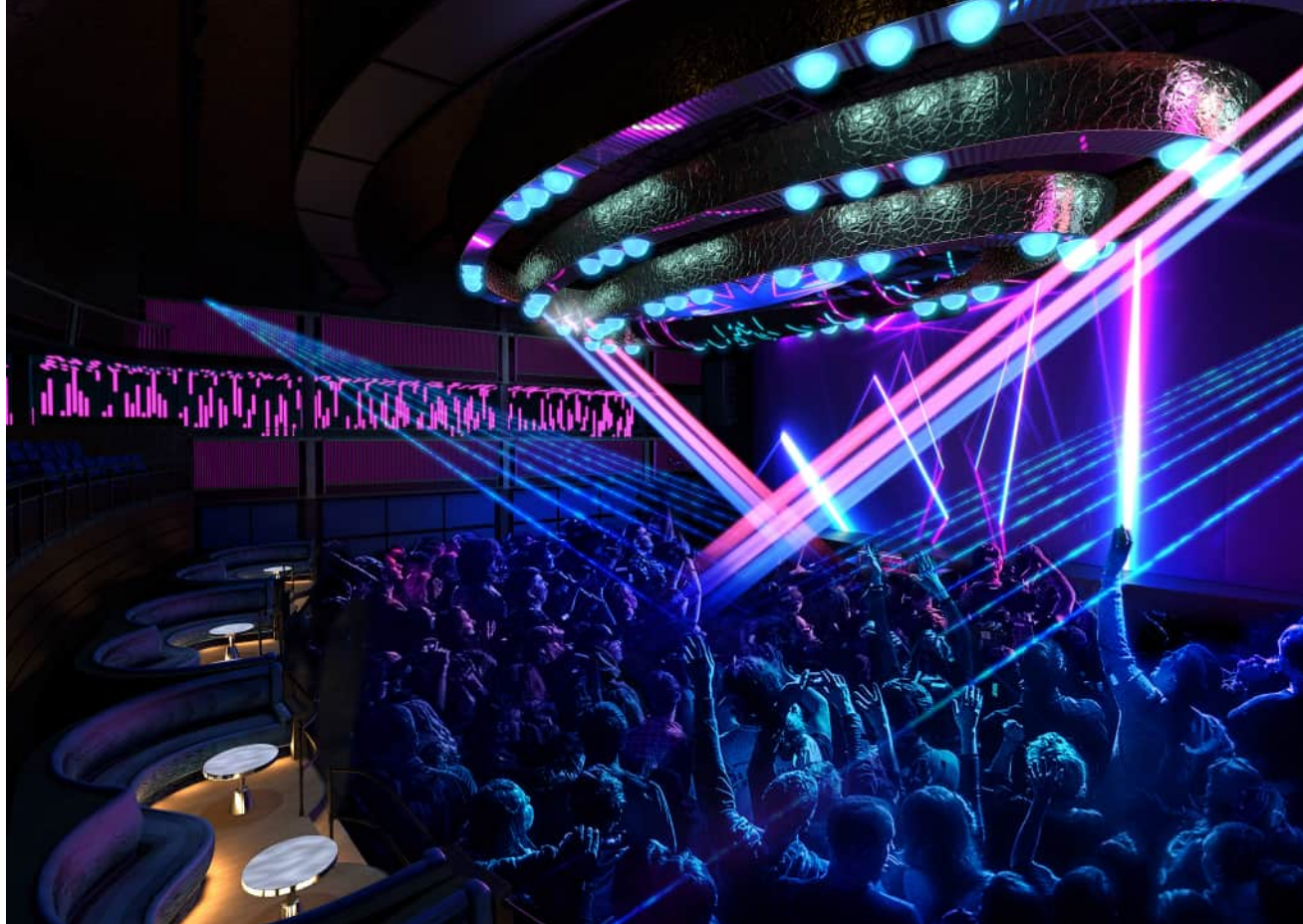
An outstanding feature of these ships is the approximately 3-tonnen „chandelier“, which can be raised and lowered and transforms the theatre into a disco.

In addition to the chandelier, the ships have five stage platforms, including two that function as performer elevators under the stage. Side covers close the openings created by these elevators, adding to the versatility of the stage design. A wheelchair lift provides barrier-free access to the stage area, while a material elevator at the rear assists with loading decorations.

The maiden voyages of Norwegian Prima and Norwegian Viva took place in 2022 and 2023 respectively. Two more Prima Class ships are planned for 2025 and 2026 and will continue the tradition of innovation in the cruise industry.

AT A GLANCE

- 1 LED Portal Header , 2 LED Portal Legs ,1 LED Upstage Wall
- Chandelier structure consisting of 4 movable rings





PERFORMING ARTS CENTRE KRISTIANSAND, NORWAY

The new concert hall and theatre in Kristiansand in southern Norway is an attraction in itself to many visitors due to its impressive location directly on the harbour front and as a cultural institution. Acoustics was at the core of a contract awarded to Waagner-Biro Stage Systems in 2009. Our company undertook comprehensive work to optimise the acoustics of the theatre. This ranged from installing heavy acoustic curtains, through placing 30 acoustic reflectors to hanging 40 acoustic banners.

This rewards the approximately 2,200 visitors with a sound experience of the highest order, which is controlled in the background with the help of the C·A·T control system.

In addition to the acoustic system, there are also two automated stands that can both be extended into position and which have a semi-automatic seat folding function.

AT A GLANCE

- 30 acoustic reflectors
- 40 acoustic banners
- 2 autom. telescopic seating systems à 300 seats



C·A·T CONTROL SYSTEM



CONTROL REPLACEMENT

While properly designed stage machinery is an investment that lasts decades, it is recommended to update automated control systems to the latest safety standards and to replace aged electronics and switchgear components after 10 to 15 years.

Wagner-Biro Stage Systems offers comprehensive automation expertise and flexible automation products for updating your existing stage machinery installations to reach the state of the art. Our refurbishment services can be adapted to almost any scope: from full replacement of switchgear and control system including safety critical sensors and actuators down to step-by-step replacements of the computer control system and other critical parts. Our C·A·T control product range can be adapted to almost every existing inverter, relay and hydraulics platform and therefore also supports progressive update plans. Please contact us for developing your individual update strategy.

References of the last years are:

- Sydney Opera House - Australia
- Elbphilharmonie Hamburg- Germany
- Copenhagen Opera House - Denmark
- Theater De Vest Alkmaar - Netherlands
- Taichung Opera House - Taiwan
- Austria Center Vienna - Austria
- Shanghai Oriental Art Centre - China
- Theatre Marigny, Paris - France
- Grand Theatre Luxembourg - Luxembourg

SERVICE

ON-CALL SERVICE AND TROUBLESHOOTING

In case a fault develops, an established service hotline guarantees that troubleshooting can begin immediately.

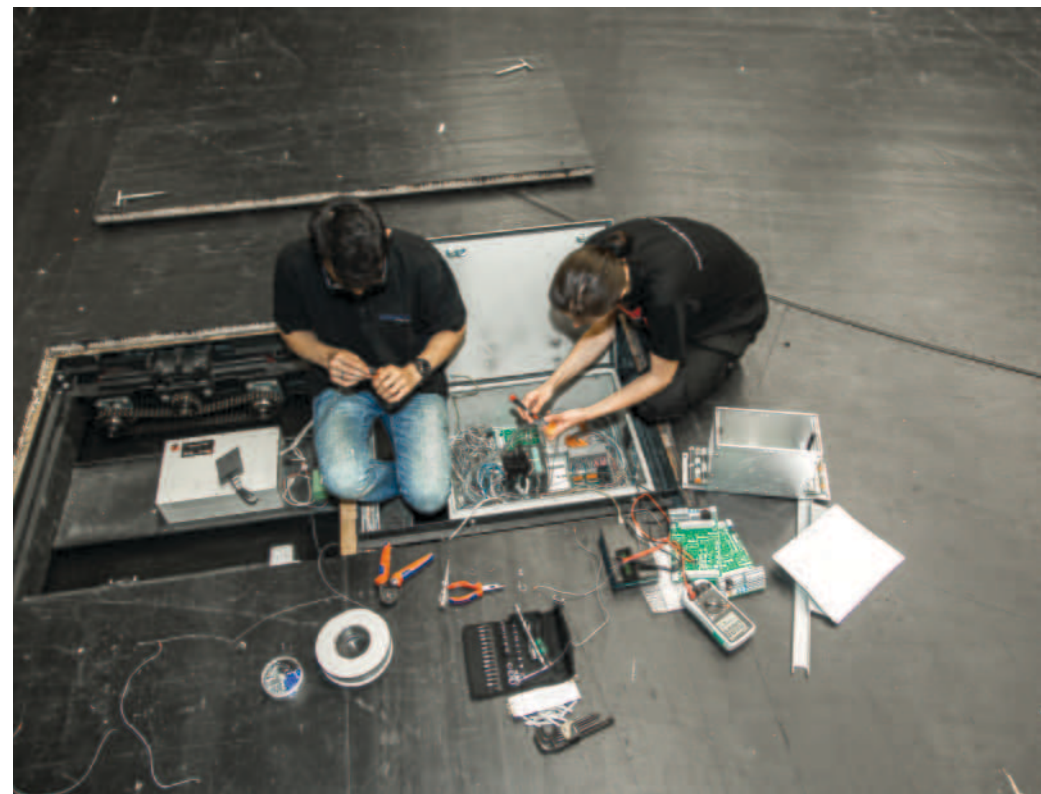
Remote diagnostics for the system and its components are performed via online connection. During the remote diagnostics process, system and component data are transferred to Waagner-Biro Stage Systems and – whenever possible – errors will be diagnosed and rectified. If remote repair is not possible, our service personal will action all necessary steps for repair of the installation on site!

MAINTENANCE

Professional organization together with well-founded know-how, technical equipment and quality-orientated management (ISO 9001) guarantee the highest level of service.

Maintenance will be performed by Waagner-Biro Stage Systems service personnel and will be supported by our remote maintenance system for all computer hard and software issues. All works are reported in a maintenance report in detail.

The specific characteristics of equipment will be taken into consideration when maintenance intervals are determined, and an individual maintenance plan will be provided accordingly.





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