



Orchestra Lift ND9

### Spiralift History

Gala started in the Stage machinery business in the early 1980's. In 1988 Gala was faced with a challenge on a project for a potential orchestra lift in Davis, California where there was a very shallow machinery pit. There was no possibility of lifting the potential platform from the sides nor was there room for any of the traditional lifting devices such as hydraulics or screws as caissons were not possible due to the water table and soil conditions. Pierre Gagnon and Pierre Laforest searched for solutions. After a weekend of contemplating ideas Pierre Laforest had an Eureka moment and showed up Monday morning with a slinky and steel strapping which was the first crude prototype for the Spiralift that would later revolutionize stage lifting systems in the entertainment industry.



### Applications

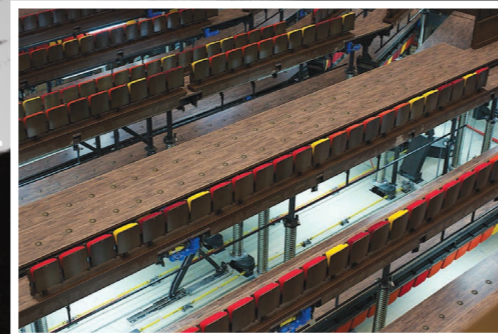
- Theatre Stage Lifts
- Podium Lifts
- Chorus Risers
- Concert Stage Lifts
- Stage Risers
- Orchestra Lifts
- Multipurpose Flooring/Seating
- Variety of Stage equipment
- Moving Floors for underwater applications
- Truck Lifts
- Moving wall Lifts
- Sport Arena Seating Risers



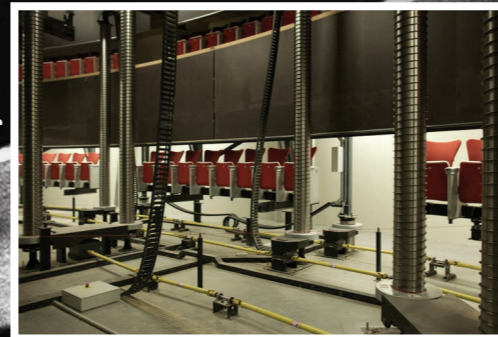
Stage Lift ND18



Chorus Risers ND6



Gala Venue Rotation System ILR250



Gala Venue Translation System ND9



Stage Lift ND9



High Speed Stage Lift ILR250-MN6

Since 1980, Gala Systems, a stage equipment company, has been creating compact and versatile theatre stage lifting devices. We specialize in orchestra lifts, theatre stage lifts, scenery lifts and piano lifts for theatres, auditoriums, concert halls, casinos and multipurpose venues. In addition, our products include seating risers, table lifts for multipurpose configurations and self-guided stage risers or orchestra podiums and chorus risers for concert stages.

The **Spiralift** offers a broad range of reliable and efficient solutions for multipurpose halls as well as for concert stage or orchestra lifts.

With its worldwide well-known experience, GALA works closely with project planners, theatre consultants, architects, contractors and theatrical equipment manufacturers in order to enhance the value of their stage and multipurpose halls design. Thanks to **30 years of experience and more than 1,650 successful realizations in 65 countries**, GALA's products and services have a proven quality and dependability.



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CREATIVE SOLUTIONS



### Definition

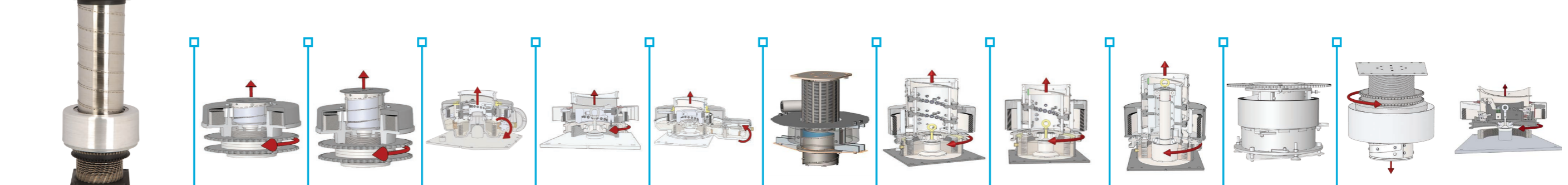
The Spiralift is a linear actuator that is very compact using two stainless steel bands to form a solid lifting column.

### Description

The vertical band is stored in rotating magazine and the horizontal band is stored below, at the base of the assembly. The horizontal band is raised using a series of cam rollers arranged in a helix pattern. The vertical band is then pushed over the horizontal band. In the I-Lock series, the vertical band is perforated and is laid over a horizontal band that is toothed with a rotary motion. The vertical band is overlapped and the horizontal band is inserted through the vertical band which then mechanically interlocks both bands creating a solid stainless steel column. In both cases, this column is raised by the rotary motion of the cam rollers in a helix, much like a ball screw mechanism.

### Principal characteristics

- Low noise, can be used during performances
  - High travel distance
  - Smooth rotary motion and quiet operation
  - Easy to handle and to install
  - A large static capacity
  - Very compact design
  - High efficiency
  - Low wear/low maintenance
  - Stainless steel bands are non-corrosive
- For I-Lock Series:**
- Stability of the column in all axes including tension
  - High speed of the column due to the large pitch of the helix per revolution

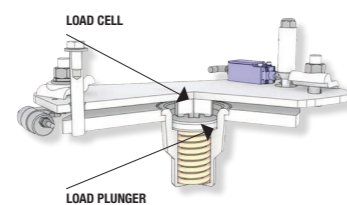


GENERAL SPECIFICATIONS	IL75-MN7	IL75-MN8	ND6 <sup>(1)</sup>	ND9 <sup>(1)</sup>	HD9 <sup>(1)</sup>	IL150	ILR250-MN1 <sup>(1)(4)</sup>	ILR250-MN2 <sup>(4)</sup>	ILR250-MN6	IL250-MN9	ILR250-MN10	ND18 <sup>(1)(4)</sup>
	I-Lock Series		Traditional Series			I-Lock Series			AQUA I-Lock Series	Inverted I-Lock Series	Traditional Series	
<b>Column Diameter</b>	75 mm	75 mm	152 mm	229 mm	229 mm	150 mm	250 mm	250 mm	250 mm	250 mm	250 mm	457 mm
<b>Maximum Lifting Capacity</b>	200 daN	400 daN	2900 daN 1700 daN <sup>(1)</sup>	4450 daN	4450 daN	1000 daN	up to 4900 daN <sup>(2)</sup>	2750 daN	up to 4900 daN <sup>(2)</sup>	1500 daN	up to 4900 daN <sup>(2)</sup>	11100 daN
<b>Maximum Static Capacity</b>	500 daN	up to 1000 daN <sup>(2)</sup>	5130 daN	10000 daN	10000 daN	3000 daN	up to 8900 daN <sup>(2)</sup>	up to 6900 daN <sup>(2)</sup>	up to 8900 daN <sup>(2)</sup>	5000 daN	up to 8900 daN <sup>(2)</sup>	17800 daN
<b>Maximum Travel</b>	1.6 m	1.6 m	3.58 m	6.1 m	6.1 m	3 m	7.5 m	7.5 m	8.25 m	3 m	7.5 m	12.2 m
<b>Maximum Speed</b>	0.01 m/s	0.01 m/s	up to 0.117 m/s <sup>(3)</sup>	0.101 m/s	0.101 m/s	0.005 m/s	up to 0.203 m/s	up to 0.203 m/s	up to 0.305 m/s <sup>(3)</sup>	0.005 m/s	0.203 m/s	0.203 m/s
<b>Closed height for travel of</b>												
1.2 m	137 mm	162 mm	226 mm	259 mm	273 mm	380 mm	507 mm	405 mm	517 mm	400 mm	507 mm	393 mm
3 m	-	-	424 mm	377 mm	391 mm	380 mm	550 mm	448 mm	560 mm	400 mm	550 mm	486 mm
6 m	-	-	-	577 mm	591 mm	-	678 mm	577 mm	688 mm	-	678 mm	644 mm
8.25 m	-	-	-	-	-	-	-	-	785 mm	-	-	771 mm
12 m	-	-	-	-	-	-	-	-	-	-	-	962 mm
<b>Lift Travel per Revolution (pitch)</b>	25.1 mm	25.1 mm	32.8 mm	52.9 mm	52.9 mm	50.8 mm	108 mm	108 mm	108 mm	108 mm	108 mm	105.1 mm
<b>Drive</b>	Chain	Chain	Integrated Reducer with 2 Output Shafts	Double Single Chain	Integrated Reducer with 2 Output Shafts	Gear	Double Single Chain	Double Single Chain	Double Single Chain	Gear	Double Single Chain	Double Single Chain
<b>Total Ratios (includes Worm Ratios), R<sub>t</sub></b>	-	-	32.5 16.25 10.83 8.17	-	50.3 25.15 16.77 12.64	-	-	-	-	-	-	-
<b>Worm Gear Ratios, R</b>	-	-	32.5 16.25 10.83 8.17	-	32.5 16.25 10.83 8.17	-	-	-	-	-	-	-
<b>Main Sprocket &amp; Chain or Main Gear</b>	Chain ANSI #40 46 teeth	Chain ANSI #40 46 teeth	-	Chain ANSI #60 54 teeth	-	Contact Gala	Chain ANSI #60 62 teeth	Chain ANSI #60 62 teeth	Chain ANSI #80 50 teeth	Contact Gala	Chain ANSI #60 62 teeth	Chain ANSI #80 80 teeth
<b>Total System Lifting Efficiency, E<sub>t</sub></b>	30%	30%	up to 67%	70%	up to 58%	30%	Up to 78%	Up to 78%	Up to 78%	40%	Up to 78%	80%
<b>Column Material (bands)</b>	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 316L	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 316L	Stainless Steel 301	Stainless Steel 301

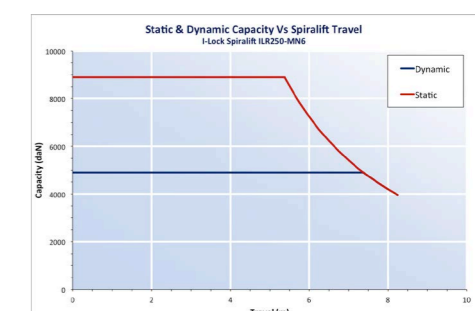
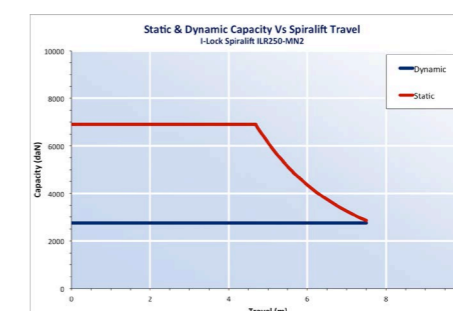
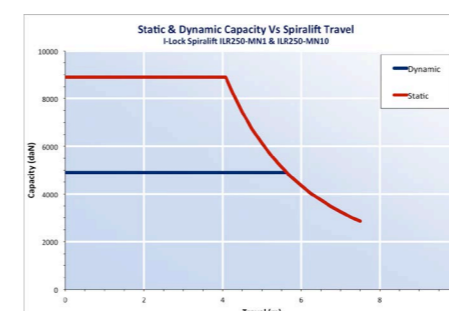
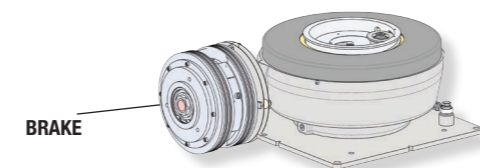
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<sup>(1)</sup> SERIES "D" SPIRALIFT UNITS COMPLY WITH DIN 56950-1. <sup>(2)</sup> Maximum Static and Lifting capacity decreases for high travel. <sup>(3)</sup> Maximum speed decreases for high travel. <sup>(4)</sup> Gear driven model also available.

### Optional load detecting device integrated to the top plate



### Optional fail safe brake coupled to ND6





ROTATION SYSTEM  
MCEC, Melbourne, Australia

## Multipurpose Halls

### The Successful Financial Model:

Multipurpose halls will often have a primary function such as supporting creative aspirations of art groups in a symphony Hall or an assembly auditorium within a conference centre. Successful multipurpose halls will also be able to host additional events that will attract contributed income in order to keep the venue full and active. Added functions such as corporate banquets, corporate exhibitions, private functions, cabaret shows, teaching seminars, sporting events, dance/rock shows... will all be able to add contributed income to the venue and keep it running with financial success year after year. Multiple configurations often have an added benefit of including food and beverage incomes as well.

Successful multipurpose halls have a custom flexible design to suit projected event requirements, local capacities, and future potentials; this renders the venues versatile, efficient and subsidy free.

The Gala Venue System allows you to create many different public assembly configurations within a single facility, each customized to meet the changing requirements of your audience and event.

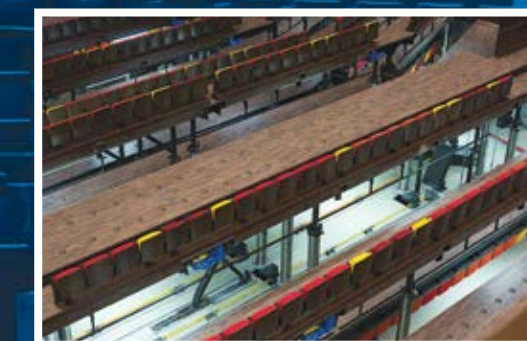
### Configurations

- Auditorium
- Flat Floor
- Cabaret
- Seminar
- Tiered Banqueting
- Dance/Rock shows
- Exhibition...



ROTATION SYSTEM River Rock, Richmond, Canada

Whether refurbishing an existing hall or building a new space, the Gala Venue™ System offers standardized & fully tailored solutions suitable for any project.



ROTATION SYSTEM CITE, Sevilla, Spain

## Multipurpose Hall Projects

(partial list)

- 2013 Lennox Suite, Edinburgh International Conference Centre Edinburgh, Scotland
- 2012 Forum Evolucion Burgos, Spain\*\*
- 2012 Centro de Innovacion Tecnológica del Entretenimiento Sevilla, Spain\*
- 2010 Pesna Multipurpose Hall Moscow, Russia\*\*\*
- 2010 Teatro Campos de Eliseos Bilbao, Spain\*
- 2007 Melbourne Convention & Exhibition Centre (MCEC) Melbourne, Australia\*
- 2006 Red Robinson Show Theatre Coquitlam, Canada\*
- 2005 River Rock Multipurpose Showroom Richmond, Canada\*
- 2004 Koninklijke Vlaamse Schouwburg (KVS) Brussels, Belgium\*
- 2002 Centre Culturel du Mont-Jacob Jonquièrre, Canada\*
- 2002 Stock Exchange Theatre Gent, Belgium
- 2009 Hockey-Basketball Arena Transformation Air Canada Center Toronto, Canada
- 2007 World Conference Centre Bonn Bonn, Germany\*\*\*
- 2007 Theatre Heerien Heerien, Netherlands
- 2007 Rotterdamse Schouwburg Rotterdam, Netherlands\*\*
- 2007 Mercury Luxury Village Barvikha, Russia\*\*\*
- 2006 National Convention Centre Hanoi, Vietnam
- 2006 Schermerhorn Symphony Center Nashville, USA\*\*\*
- 2003 Philharmonie Essen Saalbau Essen, Germany
- 2003 The Kimmel Center for the Performing Arts Verizon Hall Philadelphia, USA\*\*\*
- 1999 Royal Opera House Covent Garden London, England
- 1999 Teatro Lliure Barcelona, Spain\*\*\*
- 1997 Kanagawa Chikyuu Shimin Kanagawa, Japan
- 1996 Freiburg Convention Centre Fribourg, Germany
- 1995 Maison de la culture du Japon Paris, France
- 2014 Club Regent Showroom Winnipeg, Canada\*
- 2014 Swiss Tech Convention Centre Lausanne, Switzerland\*
- 2014 San Paolo Intesa Head Quarters Torino, Italy\*
- 2014 Tobin Performing Arts Center San Antonio, USA\*
- 2015 Klaipeda Drama Theatre Klaipeda, Lithuania\*
- 2015 Philharmonie de Paris Paris, France\*

\* Gala Venue Rotation System

\*\* Gala Venue Translation System

\*\*\* Lift Wagon System

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GALA SYSTEMS  
CREATIVE VENUES



# GALA SYSTEMS INC.

## CREATIVE VENUES

### Definition

GALA has become a leader in the creation of venues flexible enough to be able to host a multitude of different events. This configuration system is so efficient that venues can transform in minutes, allowing several different configurations over the course of a single day.

### Gala Venue Multipurpose Hall Systems Principal characteristics

#### Rapid Transformations

- Single Operator
- 5 to 30 minute transformation time
- Maximum 2-hour turn around
- No exterior hire for conversion

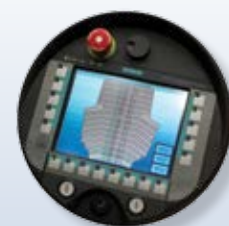
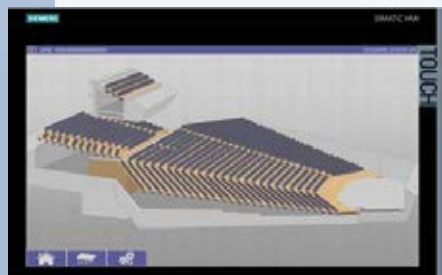
#### Permanent look and feel

- Auditorium Seats from any Quality Manufacturer
- Structural Robust Flooring
- Choice of any Finish
- Similar Acoustics as Fixed version

#### Many Different Configurations

- Auditorium, Flat Floor, Cabaret, Seminar, Tiered Banqueting, Dance/Rock shows, Exhibition...
- Unlimited automated pre-programmed configurations
- Customizable configurations
- Infinite row height adjustment
- Deployment of groups of seats

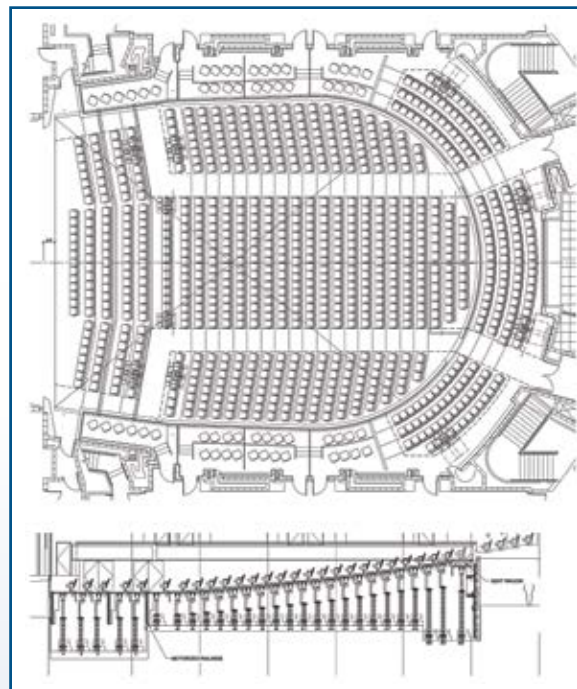
#### Touch screen panel



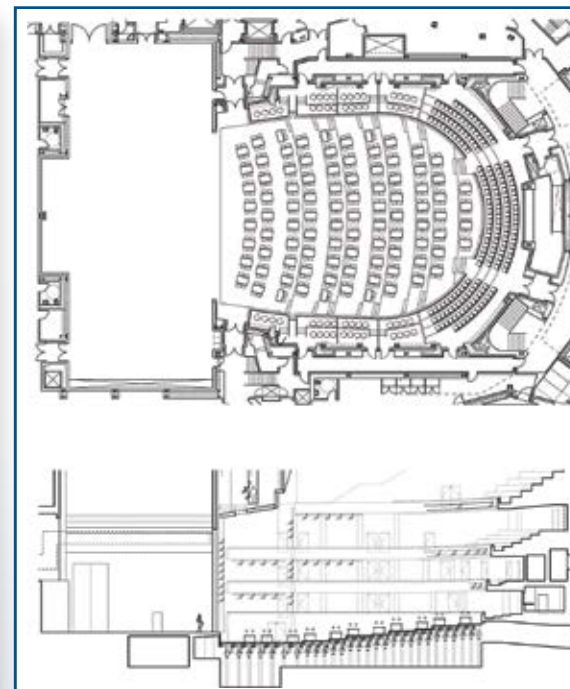
Handheld Unit

HERE ARE SOME EXAMPLES OF THE HIGH VARIETY OF POSSIBLE CONFIGURATIONS

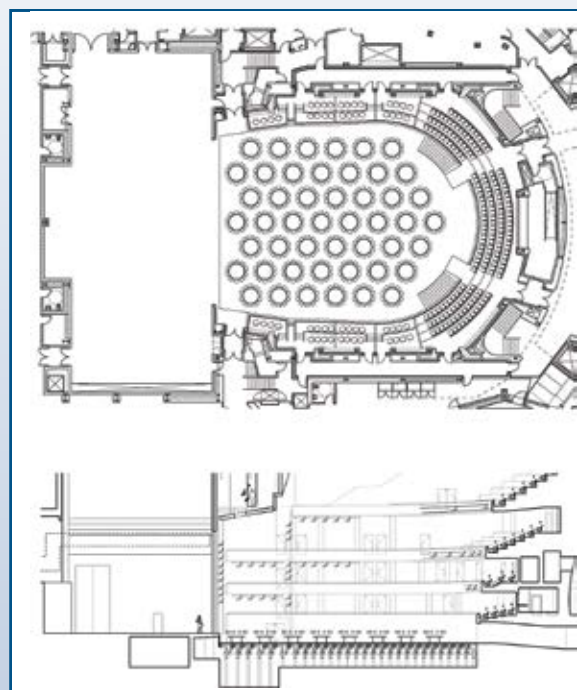
## SOME CONFIGURATIONS



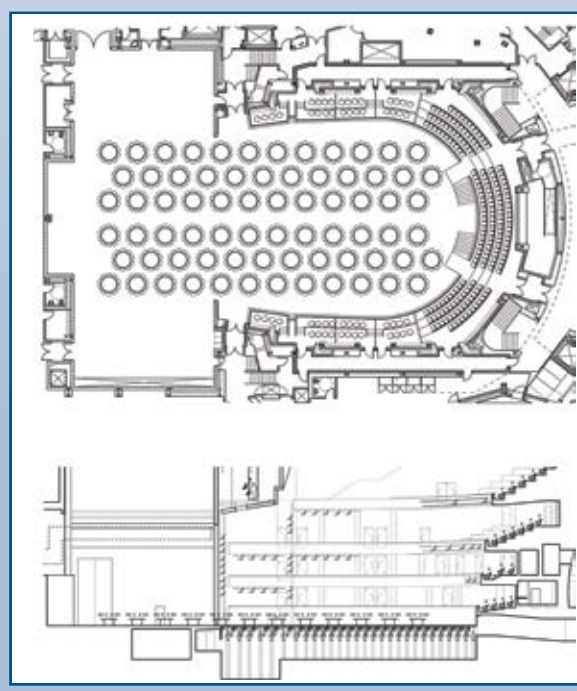
STANDARD RAKED SEATING



MULTI-TIERED CABARET WITH STAGE



FLAT FLOOR BANQUET WITH STAGE SIDE AISLES



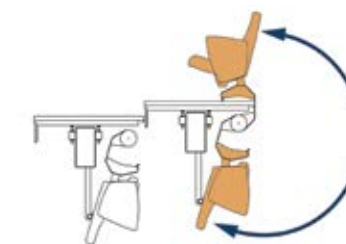
FULL FLAT FLOOR BANQUET CENTER AISLE



### AUTOMATED SEAT RECONFIGURATION SYSTEMS

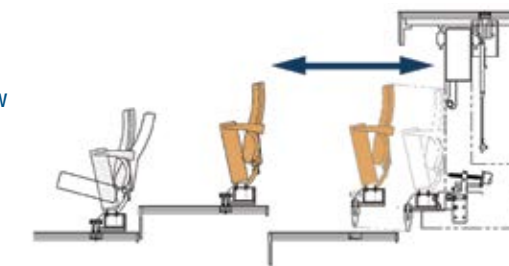
#### GALA VENUE ROTATION SYSTEM

- Seats Rotate Automatically from Storage Position to Deployed Audience Seated Position
- Independent Moving Platforms for Each Row
- **Proven Solution** (installed in many venues)
- Straight or Angled Rows Compatible with most Seat Manufacturers
- Virtually any Finish is Possible
- Conversion Time in 10 Minutes



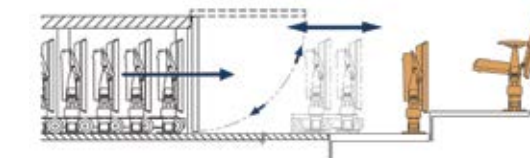
#### GALA VENUE TRANSLATION SYSTEM

- Seats Move Automatically, Horizontally from one Row to a Storage Position Under the Adjacent Row
- Independent Moving Platforms for Each Row
- Used Expressly for Venues with **Curved Rows**
- Compatible with most Seat Manufacturers
- Virtually any Finish is Possible
- Conversion Time in 10 Minutes



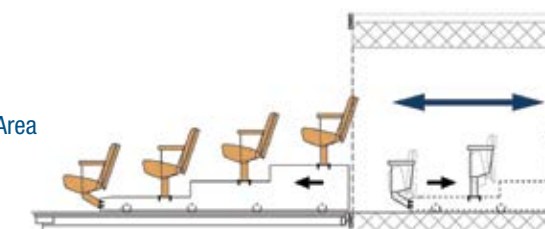
#### GALA VENUE CRAWLER SYSTEM

- Automatic or Semi-Automatic
- Seats are Stored on a Crawler Transportation System that can be Stored under the Stage Area or Adjacent to the Hall
- Gala's latest Cost Effective Innovative Solution
- **Highly Compact** Platform System with a Closed Height of approx 30 cm (12 inches)
- Conversion Time within 30 Minutes



#### GALA VENUE WAGON SYSTEM

- Automatic or Semi-Automatic System
- Large Tiered Wagons with Rows of Seating are Stored Under the Stage or Adjacent Audience Area
- Basic Conversion Solution
- All Row Geometries Possible
- Compatible with all Seat Manufacturers
- Conversion Time within 30 Minutes





**New! Motorized version available**

**FLEXSTAGE®**

## Modular platform with variable millimetric height

The upper frame is realized with an upper perimetrical aluminium profile and central transverses.

A mechanism with jackscrews transmits the vertical movement to four articulated legs and permits the variable millimetric height.

Four feet can compensate, up to 50 mm, the possible floor unevenness and are complete of hooking to the surrounding platforms.

The control is easily obtained by a standard electric or battery screwer inserted into the central hole of the floor.

Wood floor of different types available.



### Dimensions:

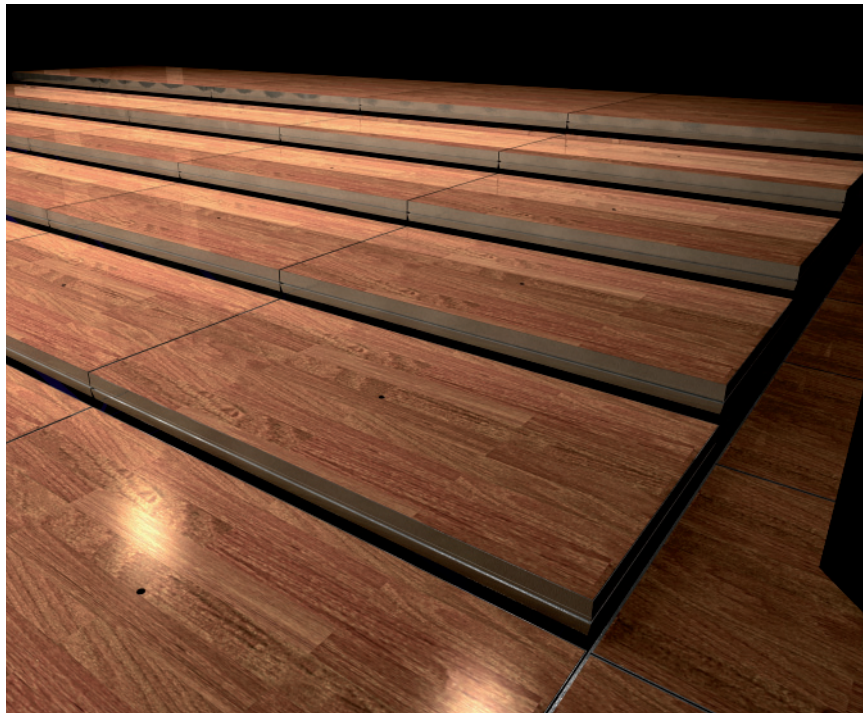
200x100 cm height up to 1000 mm

240x120 cm height up to 1100 mm

300x100 cm height up to 1400 mm



Control of vertical movement by means of a standard electric or battery screwer, introduced into a small central hole in the floor.



## OPTIONS

- Railings
- Stairs
- Folding panels for optional vertical and perimetrical closing of the platform with ribbed plastic fabric.



Detail of the compensation foot, for possible floor unevenness, up to 50 mm an lateral device for hooking of surrounding platforms.

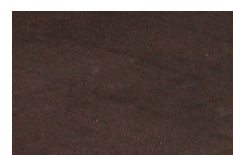
Detail of trapezoidal shape of the articulated legs.



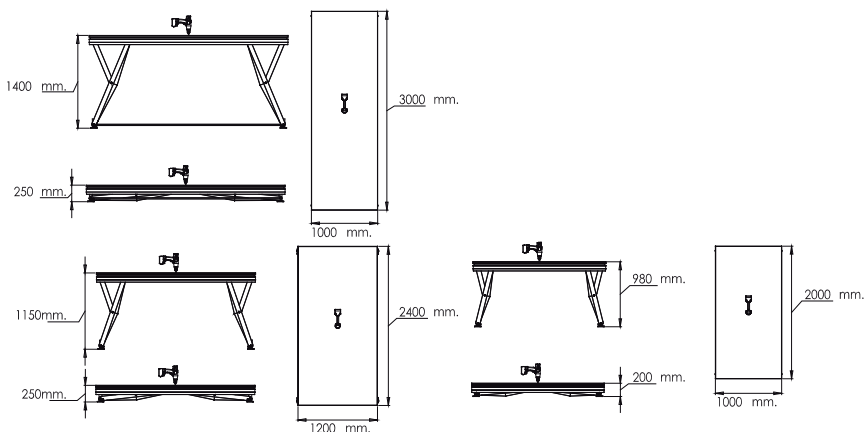
Optional vertical and perimetrical closing of the front part of the platform with folding panels in ribbed plastic fabric.



Birch multi-plywood, black, natural colour or other colours.



Birch multi-plywood, fire retardant, water repellent, non slippery, colour brown.



Oak panel with silver nuances.

## FLOORING



Laminated firwood (standard or water-repellent or fire-retardant).



Firwood or oak parquet.

FLEXSTAGE	200x100	240x120			300x100		
load kg/m <sup>2</sup> UDL	750	750	500	750	750	500	750
Height cm	from 20 to 100	25	25-40	40-115	25	25-40	40-140



DEC1948-FLXST-1-R00/3/2014