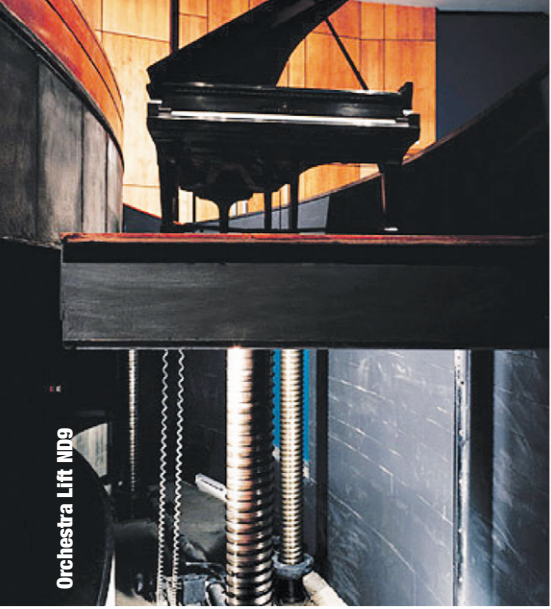


Orchestra Lift ND9



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



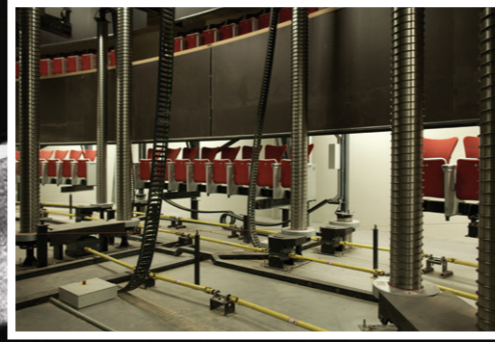
Chorus Risers ND6



Gala Venue Rotation System ILR250



Gala Venue Translation System ND9



Stage Lift ND9



High Speed Stage Lift ILR250-MMG



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 **40 years of experience and more than 2,000 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

- Very compact design
- No need for additional footprint for higher travels
- High travel distance
- Very precise height positioning
- Smooth rotary motion and quiet operation
- Easy to handle and to install
- A large static capacity
- High efficiency
- Low wear/low maintenance
- Stainless steel bands are non-corrosive

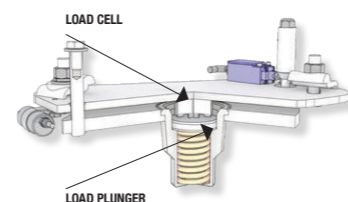
For I-Lock Series:

- Stability of the column in all axes including tension
- High speed of the column due to the large pitch of the helix per revolution
- No minimum load required

GENERAL SPECIFICATIONS	IL75-MN7	IL75-MN8	ND6 ⁽¹⁾	ND9 ⁽¹⁾	HD9 ⁽¹⁾	ILR250-MN1 ⁽¹⁾	ILR250-MN2 ⁽¹⁾	ILR250-MN6 ⁽¹⁾	ILR250-MN10 ⁽¹⁾	ND18 ⁽¹⁾
	I-Lock Series		Traditional Series			I-Lock Series			Inverted I-Lock Series	Traditional Series
Column Diameter	75 mm	75 mm	152 mm	229 mm	229 mm	250 mm	250 mm	250 mm	250 mm	457 mm
Maximum Lifting Capacity	200 daN	400 daN	2900 daN ⁽¹⁾	4450 daN	4450 daN	up to 4900 daN ⁽²⁾	2750 daN	up to 4900 daN ⁽²⁾	up to 4900 daN ⁽²⁾	11100 daN
Maximum Static Capacity	500 daN	up to 1000 daN ⁽²⁾	5130 daN	10000 daN	10000 daN	up to 8900 daN ⁽²⁾	up to 6900 daN ⁽²⁾	up to 8900 daN ⁽²⁾	up to 8900 daN ⁽²⁾	17800 daN
Maximum Travel	1.6 m	1.6 m	3.58 m	6.1 m	6.1 m	7.5 m	7.5 m	8.25 m	7.5 m	12.2 m
Maximum Speed	0.01 m/s	0.01 m/s	up to 0.117 m/s ⁽³⁾	0.101 m/s	0.101 m/s	up to 0.203 m/s	up to 0.203 m/s	up to 0.305 m/s ⁽³⁾	0.203 m/s	0.203 m/s ⁽³⁾
Closed height for travel of										
1.2 m	137 mm	162 mm	226 mm	259 mm	273 mm	507 mm	405 mm	517 mm	507 mm	393 mm
3 m	-	-	424 mm	377 mm	391 mm	550 mm	448 mm	560 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
Lift Travel per Revolution (pitch)	25.1 mm	25.1 mm	32.8 mm	52.9 mm	52.9 mm	108 mm	108 mm	108 mm	108 mm	105.1 mm
Drive	Chain	Chain	Integrated Reducer with 2 Input Shafts	Double Single Chain	Integrated Reducer with 2 Input Shafts	Double Single Chain	Double Single Chain	Double Single Chain	Double Single Chain	Double Single Chain
Total Ratios (includes Worm Ratios), R_t	-	-	32.5 16.25 10.83 8.17	-	50.3 25.15 16.77 12.64	-	-	-	-	-
Worm Gear Ratios, R	-	-	32.5 16.25 10.83 8.17	-	32.5 16.25 10.83 8.17	-	-	-	-	-
Main Sprocket & Chain or Main Gear	Chain ANSI #40 46 teeth	Chain ANSI #40 46 teeth	-	Chain ANSI #60 54 teeth	-	Chain ANSI #60 62 teeth	Chain ANSI #60 62 teeth	Chain ANSI #80 50 teeth	Chain ANSI #60 62 teeth	Chain ANSI #80 80 teeth
Total System Lifting Efficiency, E_t	30%	30%	up to 67%	70%	up to 58%	Up to 78%	Up to 78%	Up to 78%	Up to 78%	80%
Column Material (bands)	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301	Stainless Steel 301

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Optional load monitoring device integrated to the top plate



⁽¹⁾ EN17206 compliance.

⁽²⁾ Maximum Static and Lifting capacity decreases for high travel.

⁽³⁾ Maximum speed decreases for high travel.