



EVENT SOLUTIONS
POWERED STAGE LIFTS

ESL Stage Lift

A packaged lift solution
to easily automate your stage

A compact and ready-to-use stage lift solution perfectly meeting the needs of the rental/touring market. The scissor guiding system and the integrated lighting and multimedia circuits, allows to install the ESL stage lift as a single piece, with minimum handling and set-up requirements.



ALFASISTEM

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ESL Stage Lift

ESL Stage Lift is a power driven elevator designed to offer an easy to integrate solution for the event/rental market.

Built with the rigorous standards of permanently installed theatre elevators, ESL represents a safe and reliable key element to achieve a dramatic centre-stage lifting effect or to largely automate a configurable stage by using several elevators in combination.

KEY FEATURES

Self-guided ESL features a precise scissor guiding system running on its own base frame, making it independent from the surrounding stage structures. Just put ESL in the stage pit, level and stabilize it.

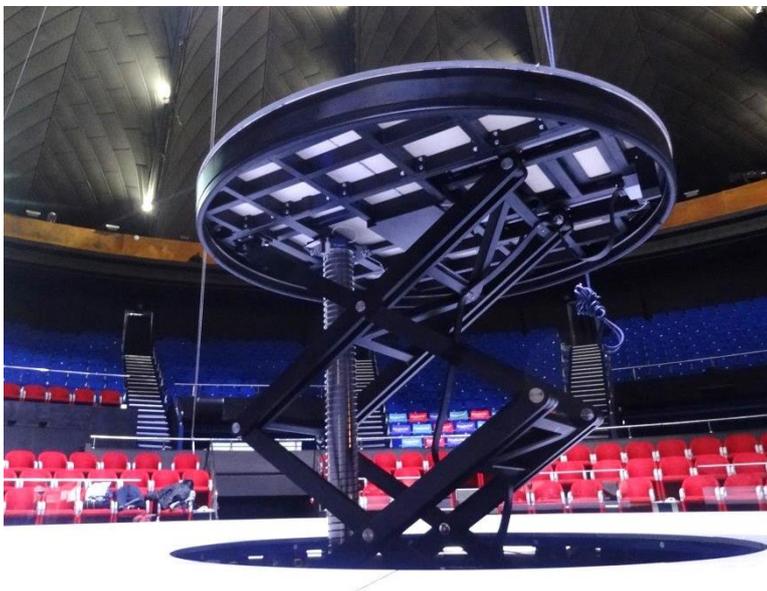
Compact / Low pit The Spiralift drive system together with a smartly designed scissor guiding system, allows to pack everything in just 500 mm when the lift is closed.

Quite operation ESL moves silently, allowing the use of the lift also during a performance.

Lighting and Multimedia on board ESL comes with integrated lighting/power, DMX, Ethernet and microphone circuits available at the moving frame. This allows a reliable and wired integration of any device above the lift (instruments, lighting fixtures, etc...).

Secured load The moving top frame features anchoring points which can be used to secure the load or for the installation of guards and rails.

Customizable shape The moving top frame can be extended with custom elements, allowing to modify the floor shape of the lift to meet specific scenography requirements (square shape, circular, etc...).



CUSTOMIZED CONFIGURATIONS

ESL Stage Lift in the 2x1 m size represents a widely usable configuration in temporary and permanent installations, for the automation of events and TV shows, etc...

Based on Alfa System's engineering skills and experience, larger or smaller lifts can be offered to meet more specific needs.

MAIN FEATURES AND OPTIONS

ESL Stage Lift is designed and manufactured according to the European standards and the international guidelines for stage engineering and machinery (DIN 56950, BGV C1, CWA15902, etc...).

High safety factors Faults are excluded by applying high safety factors as by relevant standards. The guiding system is designed to withstand a side load of at least 5% of the elevator capacity.

Redundant monitored braking The lift features two independent braking units, provided with monitoring sensors, both fitted in the motor side as a standard. Optionally one of the brakes can be installed in the extended shaft of the Spiralift to further increase the safety level.

Position and speed detection High resolution incremental and absolute encoders are installed in the motor to provide a precise and smooth control of the lift. Optionally, absolute measurement can be provided with a draw wire system, offering the possibility to cross-check the signals from two independent encoders, to monitor the integrity of the whole drive system and to achieve a higher reliability of the control system safety related functions addressed to monitor the movement of the lift.

Double limit switches ESL is provided with a set of 4 switches, for integration in separate and redundant travel limit circuits. Adjustments are made easy and safely available on the border of the lower frame.

Secondary input shaft The Spiralift offers an extended shaft which can be used to mechanically synchronize two or more lifts together or, in case of a control failure, to lower the lift with a secondary device.

Overload/Underload detection ESL is provided as a standard with a sensor switch detecting underload conditions on the Spiralift. Optionally the lift can also be provided with a load measurement system.

Edge sensors / Bellows ESL comes with safety edge sensors installed along the top frame. Optionally, bellows can be provided to prevent access to the guiding scissors.

Low-maintenance The lift offers a life expectancy of 25000+ cycles at full load, requiring only minimal inspection and maintenance activities.

Control system A customizable connector allows integration with a large set of control systems, from entry-level push button solutions to high-end controls.

Configuration example:

ESL Stage Lift
WLL 1000 kg (static and dynamic) at 0.1 m/s - 3.0 kW power
Closed height: 500 mm - Extended height: 2470 mm (floor excluded)
Footprint: 1000 x 2000 mm - Self-weight: 1200 kg

