

Another Sky Climber Reference!

Tour Eiffel, Paris, FRANCE



DIVISION: Sky Climber Europe

PROJECT NAME: Tour Eiffel

APPLICATION: Lift Rail Replacement, PART 2 Functions and safety devices

The iconic Eiffel Tower in Paris is undergoing a major renovation of the passenger lifts that will be replaced to meet modern safety standards. This Newsletter Part 2 continues from Newsletter Part 1.

Sky Climber was selected to provide two complete units of double deck platform that would allow Eiffage to carry out the renovation of the guide-rails for the passenger lift.

Specific solutions were found for each of the challenges presented by this project:

- a) The high rated load and self-weight requires 5 x Alpha 1000 hoists to work simultaneously. Each Alpha hoist is fitted with a highly sensitive load cell that continuously monitors the load on each hoist. That load data is sent to an on-board computer and the algorithm controls the motion of each hoist so that no hoist is either in overload or underload at any time.
- b) All four rails (two rails) need to be replaced, so the rig roiling on the rails was designed to be used alternatively on each pair of rails. The rolling rig wheels can be reconfigured to run either on the pair of support rails or the pair of guide rails.
- c) The rails are inclined and the slope of the rails changes as the lift goes up. The two decks are supported by a common screw jack that is controlled by tilt sensors. As the rolling rig goes up the rail, the sensors automatically detect the tilt of the deck and gradually adjust the tilt as required. The operators are therefore always standing on a stable and comfortable surface.

Vertical Run	110m
Type of cradle	Double deck platform
Rated Load	5 persons + material hoist 300kg
Self-weight	2300kg
Type of hoist	5 x Alpha 1000kg with load cells
Norms	Machine Directive and EN1808