



HiFlyer Tethered Balloons

From the world leaders in the manufacture of aerostats, airships, air cell structures, gas balloons & tethered balloons



Passenger
Carrying
Helium
Balloon

China



Hong Kong



Mooring Circle

HIFLYER OVERVIEW

Located at key tourist sites, selling rides to the public, passenger carrying balloons were first seen in the skies over 100 years ago. Today, the Lindstrand HiFlyer offers a unique and exciting experience of a balloon flight, inviting passengers on a smooth ride up to 120 meters. LTL introduced its first HiFlyer in 1996 and has since manufactured and installed over 50 systems across the world.

The HiFlyer is a passenger carrying captive helium filled balloon. The standard envelope, 23 meters in diameter, is tethered through a high-tensile wire cable to an electric winch system which pays out to elevate the HiFlyer to a maximum ride height of 150 meters. The recommended ride height is 120 meters which maximizes the earning potential of the ride, while still providing the passengers with a stunning aerial view. The HiFlyer is safe, quiet, unobtrusive and pollution free.

USA



HIFLYER SYSTEM INCLUDES:

ENVELOPE

NET

GONDOLA

WINCH



Mexico

Internal
Illumination

BUSINESS OPPORTUNITIES

At key tourist locations, in a theme or leisure park, zoo, or downtown city centre, the Lindstrand HiFlyer is highly visible - a great attraction for all ages and interests.

It has been demonstrated that the HiFlyer can fly up to 1000 passengers a day, thus making the income earning possibilities very exciting. Typically, 4 or 5 rides an hour can be achieved with 30 people on board. Ticket prices are usually set around £10 per head, resulting in potential daily earnings in excess of £10,000. This figure could be higher if night time flights are added to the schedule.

Featuring a sponsor's logo/ branding on this highly visible aerial advertising platform provides an excellent opportunity to seek advertising revenue. The envelope can be used as a backdrop for video projection and laser advertising.

INTERNAL ILLUMINATION

The Lindstrand HiFlyer lends itself to internal illumination and this has been used around the world with spectacular results. The lighting system is suspended internally from the top of the envelope.

The 3 lamps used are controlled from the gondola by an externally mounted control box which is driven by either a detachable on-board generator or battery system for night flight use, or by external mains power when moored.

ARTWORK OPTIONS:

COLOURED ENVELOPE

BANNERS

VINYLS

DIGITAL PRINTING



Sweden



South Korea



WINCH OPTIONS (Underground or Surface)

The Lindstrand HiFlyer can have either an underground winch system or a surface mounted winch system. The surface mounted winch system lends itself to sites where there might be archaeological restrictions on digging and can be used as an integral part of the visitor experience.

The winch is of the single layer storage drum type which reduces the bending stress in the cable.

As the winch is all-electric, it is noiseless and during its ascent generates its own electricity thus making the HiFlyer environmentally friendly. The winch has 5 levels of safety systems to meet EASA standards. It is supplied with a backup generator.

HiFlyer
Winch



MOORING SYSTEMS (HMS & LMS)

High Mooring System (HMS) 36 meters tall - this system stabilises the balloon in light winds during breaks in flying. When moored under normal conditions, the HiFlyer is tied down to 16 anchor points, four of which are mooring winches. These outer anchor lines are attached to ratchet straps. The tightening of the outer mooring lines ensures the stability of the balloon. The anchor points are on a 50 meter diameter circle. This 50 meter circle can be varied and tailored to meet the requirements of the site.

Low Mooring System (LMS) 26 meters tall - overnight and during higher wind speeds, a low mooring system with 16 inner mooring lines connected to 16 independent winches enables the balloon to be lowered down onto the gondola. These lines connect to the net at the balloon equator. The winches are fail-safe. If one winch fails, all winches stop precluding the unequal lowering or rising of the balloon.

APPROVALS, CERTIFICATION AND TRAINING

The Lindstrand HiFlyer is fully type certified as an aircraft by the European Aviation Safety Agency (EASA). Every component of the HiFlyer system is manufactured through the factory based in Oswestry, UK. This involves a team of expert engineers who build, inspect and approve the HiFlyer under EASA/CAA authorisation for Design (EASA.21J.176), Production (UK.21G.2089) and Maintenance (Part M - UK.MF.0061 and UK.MG.0468).

Throughout the United States, the HiFlyer is overseen by the Federal Aviation Authority (FAA) with certification delegated to State approval authorities e.g. in Florida, the Department of Agriculture.

Full operator training is provided by Lindstrand engineers and takes the form of hands-on and formal classroom sessions (including written tests followed by issue of training certificates).

South Africa





COMPANY AWARDS

IFAI (*Industrial Fabrics Association International*)

AWARDS OF EXCELLENCE

2003 Alcan Loading Bay System, USA
2003 WDA 'Thought Bubbles', UK

OUTSTANDING ACHIEVEMENT AWARDS

2001 Magna Science Centre, UK
2006 Heathrow Bus Terminal Roof, UK
2007 AV Dome, Worldwide
2008 Inflatable Flood Barrier, USA

PERFORMANCE TEXTILES ASSOCIATION

2004 Winner of the Pertexa Industry Award and the Innovation Category
2005 Highly Commended - Innovation Category



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