



DL 50 POINT HOIST Scenery & Lighting Suspension



Mod. 8350

FEATURES

- **PERFORMANCE** The DL50 Point Hoist is a hoisting system designed to raise and lower down-lights used to light spaces for public assembly. The hoist system uses a disconnect so that cable reels and cable management systems are not needed. The disconnect can be configured to power 2 separate circuits or power one circuit and have a separate 1-10 volt or data (DMX) circuit. This compact unit is only 8" tall, and less than 16" long. It has a standard travel of 65' with a capacity to lift a lighting fixture that weighs up to 50 pounds.
- **SAFETY** The DL50 Point Hoist (motorized lifting device) features an ELECTRICAL DISCONNECT which allows a lighting Fixture to be lowered to ground level for re-lamping or servicing without the need to manage the electrical feed cables as the device is lowered. This is accomplished by disconnecting the stationary upper contact member (the Power feed) from the lower contact / movable member without the need to unlatch the device. While in the upper position and connected to the current, the stem and guide assembly and the upper contact assembly maintain positive contact pressure while being held in position via the self sustaining worm-gear set motor. The DL50 Point Hoist is capable of lifting a lighting fixture up to 50Lbs SWL (safe working load) and has a TRAVEL DISTANCE of up to 65' (19.8 meters). The DL50 Point Hoist incorporates all safety standards set forth by the internationally recognized testing authorities of TÜV to the German standards, the DIN 15560 part 46 standards, and is UL laboratories standards (pending). These standards are directly associated with the safety of suspension systems mounted above an assembly of people. The safety features incorporated into the HLLH include, a dynamic self sustaining worm-gear set motor with a screw helix angle less than 4 degrees to prevent back winding in a dynamic or static position. The DL50 Point Hoist has TWO independent Stainless Steel Band lifting lines. There are two sets of Safety Micro Switches, one for the top limit (plus a top ultimate over travel) and one for the bottom limit (plus a bottom ultimate over travel).
- **OPTIONAL FEATURES** The DeSisti DL50 Point Hoist offers several unique optional features:
 1. Wide range of controls.
 2. Custom Travel of up to 80'.
 3. Remote Sheave for relocating location of where the lighting fixture drops.

SPECIFICATIONS

The De Sisti Rigging and Automation HLLH shall be made up of two elements. The first is the Motor Module and upper Stationary Contact Assembly which while in the upper position and connected via the Stem and Guide Assembly to the Down-light, shall maintain positive contact pressure (without the need for a latching mechanism) and be held in place by a self sustaining gear motor. The self sustaining gear motor shall also prevent back winding. (The use of an electrically held braking device to prevent back winding or free fall shall not be permitted). The Motor Module shall be a completely self contained enclosure and house a motorized winch drive unit with independent dual lifting drums for two stainless steel lifting bands (hoists with single lifting cables shall not be acceptable), a 6 pole electrical disconnect for up to 2 – 20amp circuits, or one 20 amp circuit and a data circuit, and limit switches and terminals for both the motor feed and control terminals. The second element is the Stem and Guide Assembly, which shall be attached to the Down-Light and make or break the electrical connection when the Lighting Fixture is moved to the upper or lowered positions. The assembly shall also include an outlet for testing the lamps when the Down-Light is at Ground level.

The motor assembly shall house 1.1 or 0.45 kw 208 volt, 60 Hz 3-phase motor, integrated with a dynamic self sustaining worm-gear set with a screw helix angle less than 4 degrees to prevent back winding in both a dynamic (when the hoist is moving), or a static position.

The average lifting speed shall be 25' per minute. The SWL (safe working load) shall be 50 lbs. The maximum travel distance is 65' (19.8 meters). It shall have two independent stainless steel lifting bands. Incorporated into the hoist system shall be limit switches, one for the top plus extra safety switch and one bottom limit switch plus safety stop switch.

All three phase feed to the motors, control wiring and load circuit wiring to the hoist shall be by others.

The entire device shall be DIN approved under section #15560 Part 46, (Worldwide Safety Standard for overhead devices) be TÜV certified and carry the U.L. label approved as a complete system.

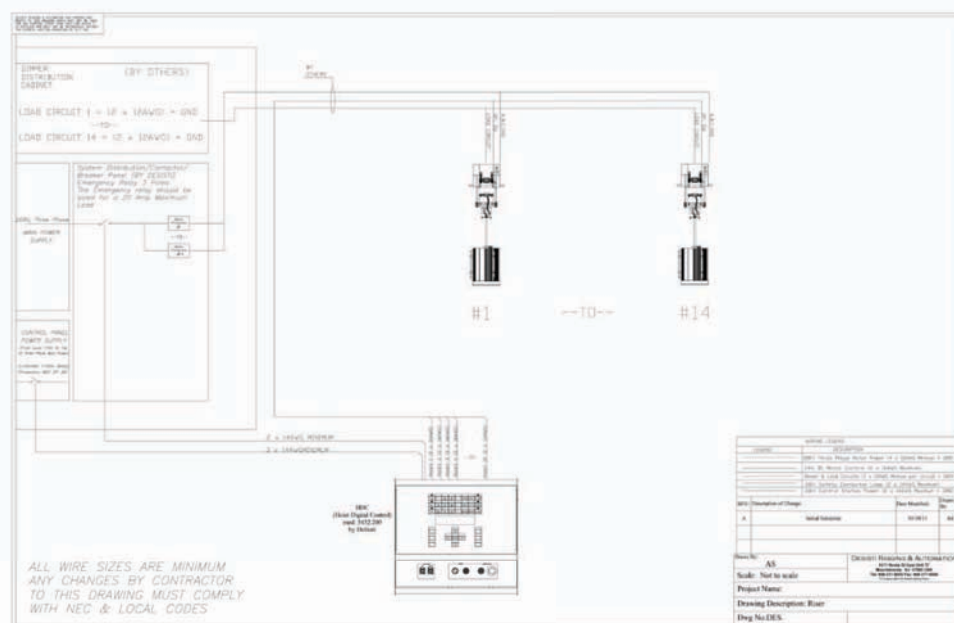
There are several Control Options offered by De Sisti.

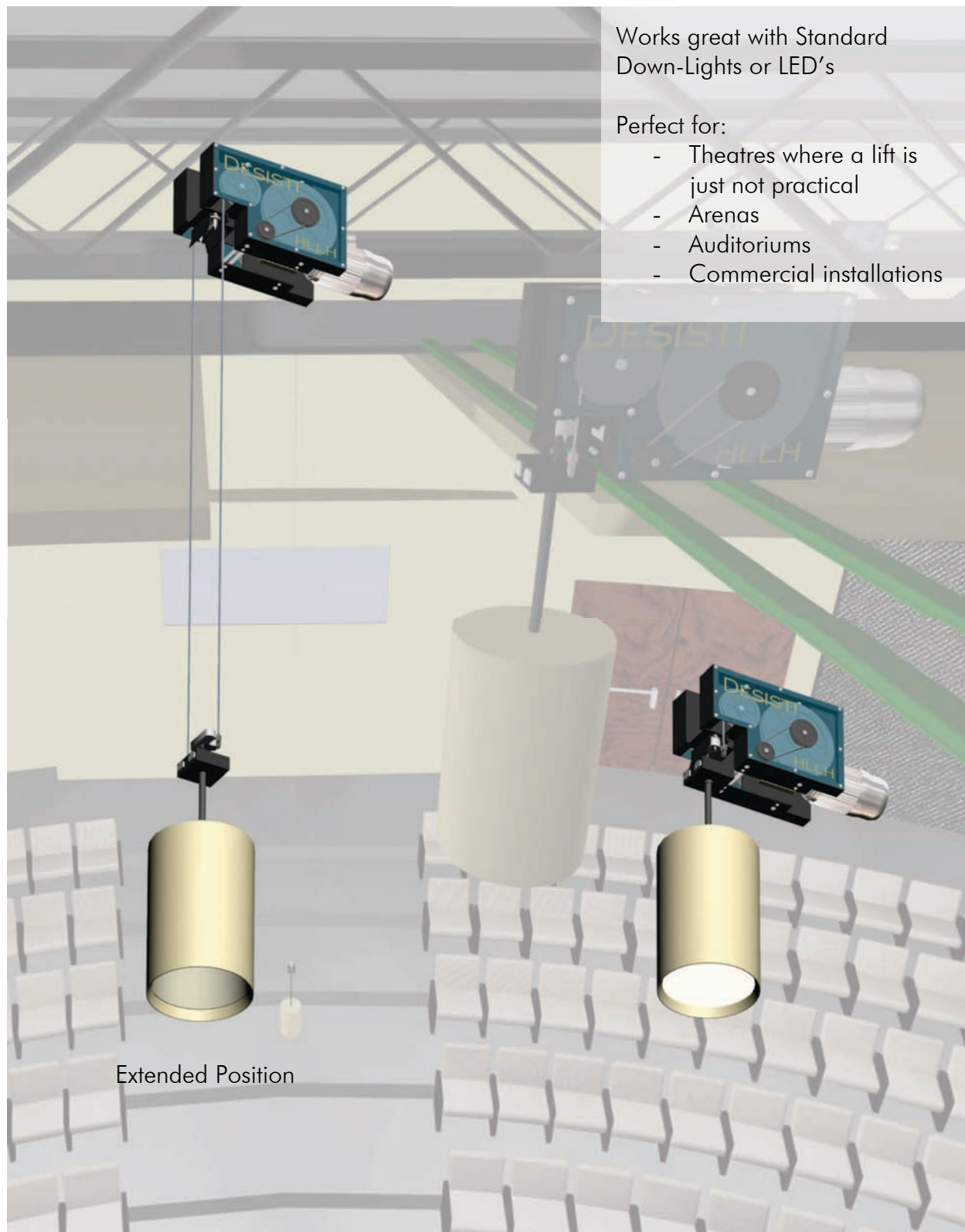
- PBS Up /Down Push Button Control with (optional) remote control.
- HDC System (hoist digital control) for 12 or 96 Axis with manual backup.
- DMX Up / Down Control as well as Positioning Control.
- HDC System (hoist digital control) for 12 or 96 Axis with manual backup.
- ICARUS Control System for (memory control of hoists and automated lighting)

CHARACTERISTICS & PERFORMANCE DATA

	STANDARD DUTY VERSION
Net lifting capacity of Hoist (Payload)	50 lbs
Number of lift bands	2 independent stainless steel lifting bands
Lift bands specifications	Stainless steel lifting band with rounded edges, specific class 150 kg sq.mm (1550 N:sq.mm). Minimum braking load 2200 or 1009 lbs
Lifting speed (average): Dimensions	6.2 m/min – 20'6" / min Length – body – 12"-18" with motor / height -8" / Width 8"
Winch Unit specs for vertical lift	1.1 or 0.45 kW, 3 phase AC primary supply : either one of the 3 following voltages are available 240/415 V 50 Hz +/- 5%, 220/380 V – 50 Hz +/- 5% Dynamic automatic interlock (DIN 15560 – 46 self sustaining) Travel 65' standard/80' Optional
Travel Limit System	TUV approved mechanism, including 4 fine adjustable safety switches (resolution of 3 mm. in a 10.5 m. travel), including: ET = Extra Top Limit TL = Top Limit BL = Bottom Limit EB = Extra Bottom Limit The mechanism can be easily retrofitted with positioning sensor 2 Limits Switches / 2 Ultimate Over Travel Switches

DL50 Point Hoist - Riser





Works great with Standard Down-Lights or LED's

Perfect for:

- Theatres where a lift is just not practical
- Arenas
- Auditoriums
- Commercial installations