

## Model LX Ladder

The Safe-Away® Model LX Ladder has been designed to provide safe access for operation & maintenance personnel to large mining and earthmoving equipment. Two pairs of hydraulically powered parallel arms retract the ladder vertically for convenient stowage when the machine is operational.

To further protect the ladder from physical damage, the ladder's electrical system can be interconnected with the park brake and slewing mechanism to ensure the machine cannot be operated until the ladder is fully retracted.



# Safety & Efficiency

The **Safe-Away® Model LX Ladder** has been specifically designed to suit a wide range of equipment and provides:

- 62° ladders for access and egress while carrying tools and other items.
- Steps of regulation size.
- Fixed handrail system for three points of contact.
- The Model LX Ladder is lifted with a pair of parallel power arms connected to a shaft and a cylinder actuator.
- The ladder is protected from mechanical damage when raised to the fully retracted position.
- Park Brake Interlock Kit providing additional protection by ensuring the ladder is raised automatically when the park brake is released.

# Innovation

The **Safe-Away® 2009 Series Access Control System** manages all ladder operations.

It provides:

- Simple downloading of day to day logged data to a USB.
- Sequential reports on all events with time and date stamps:
  - Raising and lowering,
  - Fault indications.
- Operational history data logs.
- Diagnostics and error reporting accessed directly from the incab control digital display.

## Access Control System Features

- Incab control panel with a digital touch pad display showing:
  - Access system status; UP, DOWN and IN MOTION.
  - Detailed fault indication with audible alarm and system event log.
  - 3,000 point event data log with download using a USB key connection to the side of the in cab control panel.
- View downloaded log files as summary and/or full log data in Microsoft® Excel using the supplied SLA to XLS file converter.



The **Safe-Away® 2009 Series Power Pack** is driven by the Access Control System. The hydraulic Power Pack may be mounted vertically, at a convenient location of your choosing, on the vehicle.

It includes:

- Harnesses and Leads.
- Battery Circuit Breaker Kit.



Log Index	Event Label	Event Code	Date
1	Ladder Down	254	01/09/2000 11:31:47 PM
2	System Voltage Below 18V	18	02/09/2000 12:15:21 AM
3	Ladder Up	255	02/09/2000 12:20:20 AM
4	Ladder Down	254	02/09/2000 01:38:05 AM
5	Ladder Up	255	02/09/2000 01:40:34 AM
6	Ladder Down	254	02/09/2000 04:38:29 AM
7	Ladder Up	255	02/09/2000 05:21:04 AM
8	Ladder Down	254	02/09/2000 06:37:10 AM
9	System Voltage Below 18V	18	02/09/2000 06:42:51 AM
10	Ladder Up	255	02/09/2000 07:19:39 AM
11	System Voltage < 18V During Movement	17	02/09/2000 07:19:46 AM
12	Ladder Down	254	02/09/2000 08:00:52 AM
13	System Voltage Below 18V	18	02/09/2000 08:01:40 AM
14	Ladder Up	255	02/09/2000 08:08:12 AM
15	Ladder Down	254	02/09/2000 08:22:30 AM
16	System Voltage Below 18V	18	02/09/2000 08:24:54 AM
17	System Voltage Below 18V	18	02/09/2000 12:24:05 PM



# Designed to suit your fleet

The **Safe-Away® Model LX Ladder** is designed to suit OEM vehicles.

Each Model LX Ladder may be varied to accommodate your requirements for specific mount points, platform handrails, infills, platforms, site and/or OEM colours, and Power Pack locations.

## Model LX

Designed for use on:

- Shovels
- Excavators
- Equipment up to 3900mm deck height

Compatible OEM models include:

5130B EX2500 EX3500 994 996 RH170 RH200 RH340

The Model LX can be adapted for other equipment.



The Model LX pictured above is on the front of a Liebherr 996 Shovel in the down and up positions. The metallic cabinet containing the 2009 Series Power Pack can be seen mounted on the white wall on the front of the cabin.

The Model LX pictured below is on the side of a Hitachi EX1900 Shovel in the up and down positions.



## Optional extras

### 1. Additional Raise and Lower Control Panel Kit



A remotely mounted control panel designed to enable the raise and lower operation from outside of the vehicle's cab, or at a position accessible from ground level. Encased in a protective aluminium case.



**2. Hydraulic Emergency Down Kit**  
A lever operated three-way ball valve and mounting bracket provides a fail safe emergency down function.

### 3. Boarding Light and Audible Alarm Kits



The boarding light (left) and audible alarm (below) are activated by pressing the up or down directional switch. The light will stay on for an adjustable/preset period.



### 4. Inhibit Kit

A relay with connecting harness for customer only installation of machine inhibit functions independent of the standard Safe-Away® in-built ladder safety functions.



### 5. Reservoir Heater & Circuit Breaker

The Reservoir Heater ensures the viscosity of the oil is maintained to raise and lower the ladder in cold climates.

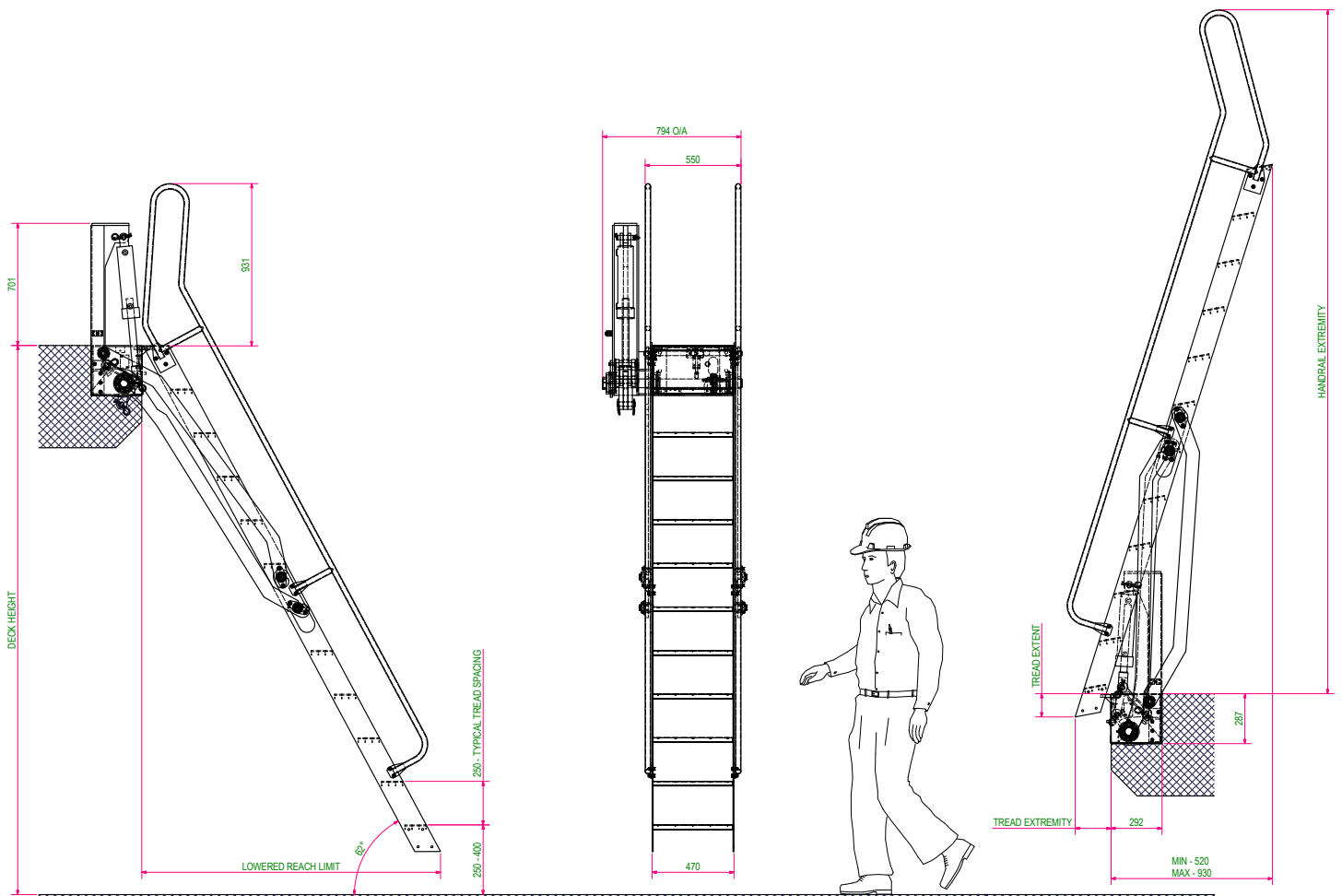


# Specifications

This Safe-Away® Model LX has been designed and manufactured to comply with the relevant sections of the following standards:-  
SAE J185\_200305      ISO 2867:2011      ANSI Z535.4-2007      ANSI A14.2-2007      AS 3868-1991

## Model LX Range Dimensions

Steps	Deck Height Maximum		Lowered Reach Limit		Handrail Extremity		Tread Extremity		Tread Extent	
9	2500mm	98.4in	1350mm	53.1in	2795mm	110.3in	230mm	9.0in	315mm	12.4in
10	2620mm	103.1in	1420mm	55.9in	2795mm	110.3in	265mm	10.4in	455mm	17.9in
11	2875mm	113.1in	1560mm	61.4in	2795mm	110.3in	335mm	13.1in	725mm	29.7in
12	3275mm	128.9in	1720mm	67.7in	3925mm	154.5in	175mm	6.8in	430mm	16.9in
13	3400mm	133.8in	1780mm	70.0in	3925mm	154.5in	250mm	9.8in	265mm	10.4in
14	3650mm	143.7in	1915mm	75.3in	3925mm	154.5in	335mm	13.1in	540mm	21.2in
15	3900mm	153.5in	2050mm	80.7in	3925mm	154.5in	420mm	16.5in	810mm	31.8in



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