

## SWING Ladder

The Safe-Away<sup>®</sup> SWING Ladder has been designed for heavy mining and excavation machinery to provide a low maintenance access system that will comply with step type ladder standards 65° for access and egress.

The ladder is electro-hydraulically controlled to provide an automatic three step process: swing up, retract in & lower to cradle. The ladder is protected from mechanical damage when raised to the fully retracted position when the vehicle is operational.



# Safety & Efficiency

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

- 65° ladder for access and egress while carrying tools and other items.
- You may choose from a left or right swinging ladder to suit your vehicle.
- Steps of regulation size.
- Fixed handrail system for three points of contact.
- An LED boarding light activated by pressing the up or down directional switch. The light will stay on for an adjustable/preset period.
- Park Brake Interlock Kit providing additional protection by ensuring the ladder is raised when the park brake is released. (Note: not applicable with Momentary operation configuration).



Safe-Away® Swing ladder in the down position on a PC1800.



# 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 an internal audible alarm and system event log.
  - 3,000 point event data log with download using a USB key connection to the side of the Incab 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 SWING Series Power Pack** is driven by the Access Control System. The dual acting 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 12:24:06 PM



# Designed to suit your fleet

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

Each 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. Pictured below Cat D10R and Komatsu D475A with Swing ladders.

## SWING

Designed for use on:

- Dozers
- Shovels
- Excavators

Compatible OEM models include:

D9R	D9N	D9T	D10N
D10R	D10T	D11N	D11R
D11T	5130B	5230B	D275
D375	D475	PC1800	RH120

Can be adapted for other equipment



## 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.

### 2. External Audible Alarm Kit

The external audible alarm is activated by pressing the up or down directional switch. The light will stay on for an adjustable/preset period.



### 3. 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.



### 4. Reservoir Heater

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



### 5. Momentary Operation

Safe-Away® Access Systems can be supplied with momentary operation.

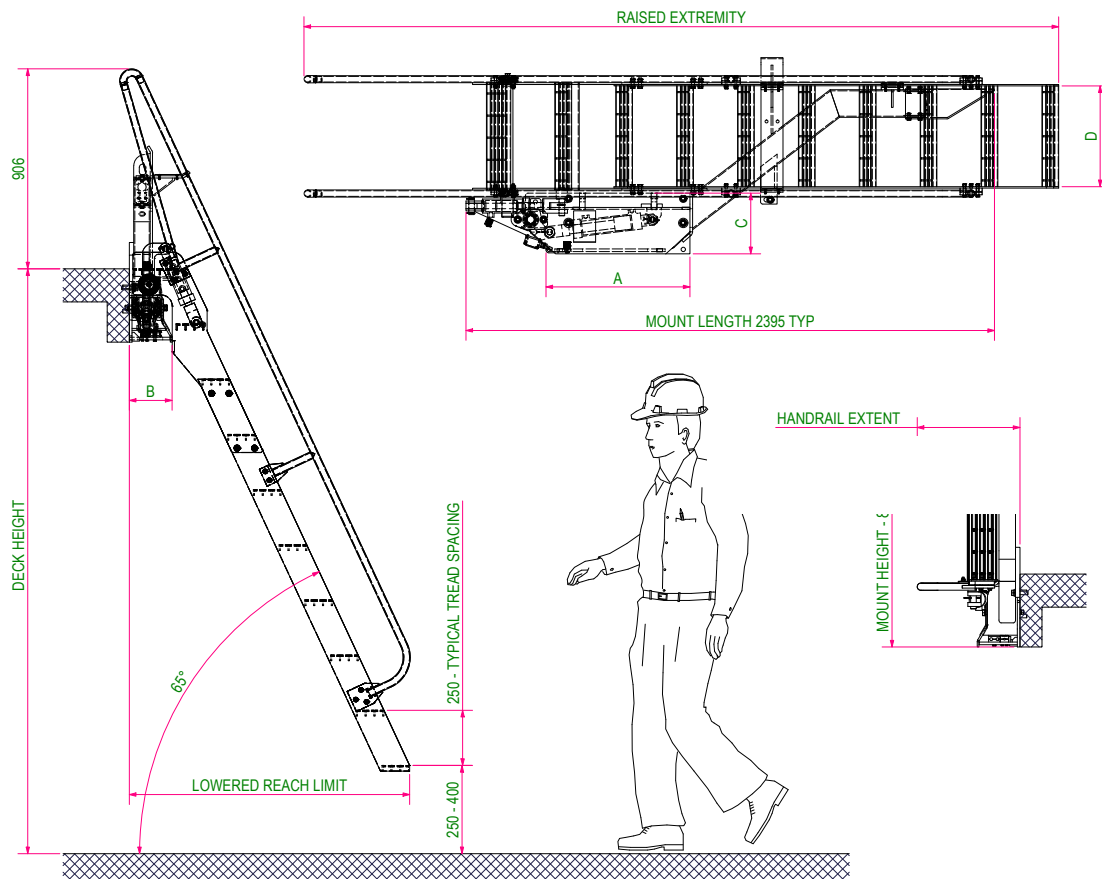
# Specifications

This Safe-Away® Access System has been designed and manufactured to comply where practicably possible 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    AS1657-2013

## SWING Dimensions

Steps	Deck Height Maximum	Lowered Reach Limit	Raised Extremity	Handrail Extent
<b>8</b>	2150mm    84.48in	1040mm    40.94in	3125mm    123.03in	485mm    19.09in
<b>9</b>	2400mm    94.68in	1160mm    45.67in	3140mm    123.62in	485mm    19.09in
<b>10</b>	2650mm    104.52in	1270mm    50in	3450mm    135.83in	485mm    19.09in
<b>11</b>	2900mm    114.37in	1405mm    55.31in	3720mm    146.46in	485mm    19.09in



## Dimensions (approximately)

A	Cylinder Housing Width	652mm	25.6in
B	Cylinder Housing Depth	192mm	7.5in
C	Cylinder Housing Height	275mm	10.8in
D	Ladder width	458mm	18in