



RotorStep Ladders

The Safe-Away® RotorSteps have been designed to provide a low maintenance, ergonomic and safe access for the operators and maintenance personnel of graders, scrapers or excavators in the heavy mining and earthmoving industries.

The RotorStep Ladders are electro-hydraulically controlled and rotate through an arc of 180° to the upright, 'parked' position to protect the ladders from physical damage when the equipment is in use.



Safety & Efficiency

The **Safe-Away® RotorStep Ladders** have been specifically designed to suit a wide range of equipment and provide:

- A retractable 62° ladder for access and egress while carrying tools and other items.
- Steps of regulation size.
- Fixed handrail system for three points of contact.
- A simple robust hydraulic actuator that rotates through an arc of 180° to the upright position to protect the ladders from physical damage when the equipment is in use.
- A Proximity Switch to raise the ladder automatically when the door is closed for the RotorStep G, GK, GM and L models.
- Park Brake Interlock Kit providing additional protection by ensuring the ladder is raised automatically when the park brake is released.



RotorStep G Ladder shown fitted to a Cat 16G Grader

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

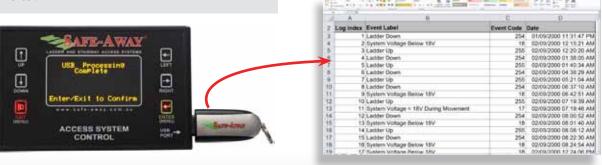
- Incab control panel with a digital touch pad display showing:
 - Access system status; UP, DOWN and IN MOTION.
 - Detailed fault indication with audible alarm and system event log.
 - 3,000 point event data log with download using a USB key connection to the side of the in cab control panel.
- View 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.



Designed to suit your fleet

There are 5 models of **Safe-Away® RotorStep Ladders** designed to suit OEM vehicles.

Each of these RotorStep models may be varied to accommodate your requirements for specific mount points, platform handrails, infills, platforms, site/OEM colours, and Power Pack locations.

			RotorSteps	
Model	Compatible with:		Features & Benefits	
RotorStep G	Cat 16G Graders Cat 16H Graders		Operates with the cab door fully open or closed. Will not obstruct an operators vision when up.	
RotorStep GM	Cat16M Graders		The compact mount ensures visibility to the point of the blade. Operates with the cab door fully open or closed. Will not obstruct an operators vision when up.	
RotorStep GK	Komatsu GD825 Graders		The compact mount ensures visibility to the point of the blade. Operates with the cab door fully open or closed. Will not obstruct an operators vision when up.	
RotorStep L	Excavator Trucks 320C 320E 385C PC1000 934	320D 385B PC300 ZX350 974	Unique design keeps the ladder off the tracks. Compact mount plates to ensure visibility. Operates with the cab door fully open or close. Will not obstruct an operators vision when up.	
RotorStep S	631D 631E 631G 637D 637E 637G 651B 651E 657B 657E		A rotating platform section provides a walkway between the cab and the ladder. It sits in an upright position when the scraper is operational. A robust mount minimises damage to ladder when positioned on the scaper front corners. Operates with the cab door fully open or closed. Will not obstruct an operators vision when up.	

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. Boarding Light and Audible Alarm Kit

The boarding light and audible alarm are 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.



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





RotorStep G Ladder shown fitted to a Cat 16G Grader



RotorStep GM Ladder shown fitted to a 16M Grader



RotorStep L Ladder shown fitted to a Hitachi EX350 excavator



RotorStep S Ladder shown fitted to a Cat 657 scraper







Specifications

This Safe-Away® RotorStep L 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

RotorStep L Range Dimensions						
Steps	Deck Height Maximum	Lowered Reach Limit	Raised Extremity	Mount Length		
5	1490mm	820mm	1070mm	872mm		
6	1745mm	950mm	1355mm	872mm		
7	1985mm	1085mm	1645mm	872mm		

