



VHS

The Safe-Away® Variable Height Stair (VHS) has been designed to improve safety and access for operational and maintenance personnel working on drill rigs. Due to the height variations in drill rig positioning, the stair treads automatically compensate for stair angles between 22° & 45° to the horizontal.



Through innovation we provide improved safety and efficiency

Safety & Efficiency

The Safe-Away® Variable Height Stair (VHS) has been specifically designed to suit a wide range of drill rigs. Features:

- The VHS offers easier access for maintenance personnel when accessing the vehicle and while carrying tools.
- Includes complete stair assembly, handrails, mounting bracket and installation kit.
- The fixed handrail system provides for three points of contact.
- Electric/hydraulic movements are controlled via the 24 volt Safe-Away Series 2009 VHS Power Pack.
- When the drill rig is operational or mobile the VHS is safely retracted to the horizontal position.
- A Maintenance Prop is provided for use on the Cylinder Rod, to enable work to occur under the stair with safety. The Maintenance Prop prevents the Hydraulic Cylinder from retracting, holding the stair in the raised position.
- Park Brake Interlock Kit provides additional protection by raising the ladder automatically when the park brake is released.
 (Note: not applicable with Momentary operation configuration).
- Safety Bypass Valve to manually release the stair lowering it to the down position.

Innovation

The Safe-Away® 2009 Series Access Control System manages all stair 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 via USB 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 Series VHS Power Pack** is driven by the Access Control System. The stainless steel VHS Power Pack cabinet houses the main control hydraulic and electrical components.

It includes:

- Harnesses and leads.
- Battery Circuit Breaker Kit.
- The Reservoir Heater ensures the viscosity of the oil is maintained to raise and lower the ladder in cold climates.



Designed to suit your fleet

The Safe-Away® VHS is suitable for all OEM drill rigs and/or equipment with a deck height of up to 3200mm.

The Safe-Away VHS may be varied to accommodate your requirements for specific mount points, platform handrails, infills, site and/or OEM colours, and Power Pack locations.

VHS Compatibility

Compatible OEM models include:

 DMM2
 DMM3
 DM25
 DML
 DML 60
 D40KS
 D45KS
 D55SP
 DR460

 D60KS
 D75KS
 D90KS
 D90K
 1190E
 Pit Viper 235
 Pit Viper 271

Pit Viper 275 Pit Viper 351

The Safe-Away VHS can be adapted for other equipment.



Manual Ladder 2 (ML2)

The Safe-Away® ML2 ladder is a manually operated ladder that has been designed as an additional access option to improve safety for operators and maintenance personnel working with drill rigs.

The Safe-Away® ML2 Ladder:

- can be easily raised or lowered by one person from the deck area or the ground.
- when not in use the ladder is retracted to a vertical position above the ground to reduce the possibility of physical damage.
- comes pre-assembled and ready to fit.





For more information on the ML2 see the separate Specification Sheet.

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



An LED 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.



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. Momentary Operation

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





Specifications

This Safe-Away® VHS has been designed and manufactured to comply where practicably possible with the relevant sections of the following standards when in the 45 degree position:-

SAE J185 200305 ISO 2867:2011

ANSI Z535.4-2007

ANSI A14.2-2007

AS 3868-1991

AS1657-2013

Dimensions (approximately)								
Steps A- Deck Height Max @ 45°		B- Deck Heig	B- Deck Height Min @ 22°		C- Raised Extremity			
9	2120mm	83.5in	992mm	39in	2765mm	108.8in		
11	2550mm	100.4in	1220mm	48in	3315mm	130.1in		
12	2765mm	108.8in	1334mm	52,5in	3562mm	140.2in		
13	2980mm	117.3in	1448mm	57in	3916mm	154.1in		
14	3195mm	125.8in	1562mm	61.5in	4220mm	166.1in		

	Dimensions (approximately)						
D	Stair width	688mm	27in				
E	Platform length	629mm	24.7in				
F	Platform width	823mm O/A	32.4in				



