# HEDWELD



Ladder and Stair Access Systems

## **DK Series**

The Safe-Away<sup>®</sup> DK Series Access Systems are the result of years of re-engineering our existing ladders and stairs to provide a simpler low maintenance alternative for our customers.

Designed to reduce the possibility of physical damage to the access systems on heavy mining and excavation machinery, the DK Series stairs and ladders are raised to a vertical position above the ground when the machine is operational.

### INNOVATION efficiently designed to minimise costs





### Stair RTV-SDK

### Ladder RTV-LDK

Through innovation we provide improved safety and efficiency

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# Safety & Efficiency

The **Safe-Away® DK Series Raise to Vertical (RTV) Access Systems** have been specifically designed to suit a wide range of equipment and provide:

- A 45° stairway (RTV-SDK) and 62° ladder (RTV-LDK) offering safer access and egress while carrying tools.
- Two sections: the Mount Infil box enclosing the horizontal Hydraulic Power Pack and the Access System Assembly (steelwork) making it easier and more cost effective to replace.
- A tread mesh top step offering more stability.
- Fewer parts means reduced spares on hand and fewer moving parts to wear down.
- Fixed handrails (to give three points of contact) that are now easier to remove and/or replace.
- Standardization of many Safe-Away® Access Systems meaning it will be simpler for training, installation and maintenance.
- Park Brake Interlock Kit provides additional protection by raising the system automatically when the park brake is released (Note: not applicable with Momentary operation configuration).

### 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<sup>®</sup> 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.

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

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				# A	8	C	D
			3	2 Log Index	Event Label	Event Code	Date
	and the second second second second			3	1 Ladder Down	25-	4 01/09/2000 11:31:47 PM
	SAFE-AWAY			4	2 System Voltage Below 18V	11	02/09/2000 12 15:21 AM
þ				5	3 Ladder Up	25	5 02/09/2000 12 20:20 AM
	LADORFTAND RTHIMMAN ACCESS STUTTING	. E		8	4 Ladder Down	254	02/09/2000 01:38:05 AM
	USB Processing Complete	um		7	5 Ladder Up	25	5 02/09/2000 01:40:34 AM
	Complete		8	в	6 Ladder Down	25	1 02/09/2000 04 38:29 AM
		•	3	9	7 Ladder Up	25	5 02/09/2000 05:21:04 AM
	and the second second second second second	BRGAT	3	0	8 Ladder Down	254	02/09/2000 06 37 10 AM
	Enter/Exit to Confirm	(m)	1	1	9 System Voltage Below 18V	11	02/09/2000 06:42:51 AM
	and a state a second as		3	2 1	0 Ladder Up	25	5 02/09/2000 07 19 39 AM
		A DOTE OF	1	3 1	1 System Voltage < 18V During Movemen	st 13	02/09/2000 07:19:46 AM
	ACCESS SYSTEM	ALC: NOT THE REAL PROPERTY OF	- T	4 1	2 Ladder Down	254	4 02/09/2000 08:00:52 AM
	CONTROL	PORT -		5 1	3 System Voltage Below 18V	11	8 02/09/2000 08 01 40 AM
				6 1	4 Ladder Up	254	5 02/09/2000 08:08:12 AM
			3	7 1	5 Ladder Down	.254	1 02/09/2000 08:22:30 AM
			3	8 1	6 System Voltage Below 18V	11	8 02/09/2000 08:24:54 AM
			-	9 1	7 System Voltage Below 18V	11	8 02/09/2000 12:24:05 PM

## Designed to suit your fleet

The **Safe-Away® DK Series RTV Access Systems** are designed to suit OEM vehicles and are able to be retrofitted if replacing existing systems.

Each system may be varied to accommodate your requirements for specific mount points, platform handrails, infils and site and/or OEM colors.



#### RTV-SDK (45° stairway)

Designed for use on:

- Trucks
- Dozers
- Loaders
- Shovels
- Excavators

#### Compatible OEM models include:

•					
773F	773G	775F	777F	777G	
785C	785D	789C-D	793C-D	793C	
793F	797F	988F-H	992C-D	992K	
992C-G	993K	994G	844B-H	854B-K	
730E	830E	930E	960E	WA600	
WA900	WA1200	EH4500	EH5500	L1850	
T262	T282				
The stair can also be adapted for other equipment.					

The stair can also be adapted for other equipment.



#### **RTV-LDK** (62° ladder)

Designed for use on:

- Trucks
- Dozers
- Loaders
- Shovels
- Excavators
- Graders

#### Compatible OEM models include:

773E	773F	775A-E	775F	777D	
777F	777G	789A-C	789D	793B-F	
797F	980H	988G	988H	992C-G	
992K	993K	994D-F	994H	824H	
834B-H	844H	854B-K	24M	385	
HD1500	WA800	WA900	WD900	PC1000	
PC1250	PC1600	EH4500	EH5500	EX1900	
EX1200-5	MT4400				
The ladder can also 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. 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<sup>®</sup> in-built ladder safety functions.

#### 5. Momentary Operation

Safe-Away<sup>®</sup> Access Systems can be supplied with momentary operation.

### **Continuous improvement**

One of the key objectives when designing the **Safe-Away® DK Series Access Systems** was to minimise the number of parts, moving or static. We are proud to say we were able to reduce the number of parts. This will reduce your cost of stock on hand and a lowers the number of wear parts.

# HEDWELD

Manufacturers and Suppliers of:

SAFE-AWAY Trilift

# **Specifications**

These Safe-Away® Access System have been designed and manufactured to comply where practicably possible with the relevant sections of the following standards:-ANSI A14.2-2007 AS 3868-1991

SAE J185 200305 ISO 2867:2011

ANSI Z535.4-2007

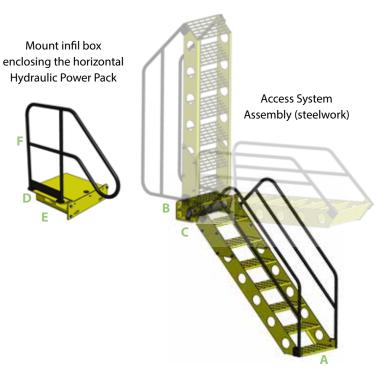
AS1657-2013

### **RTV-SDK Range Dimensions**

Steps Deck Height			Raised height		
5	49.6in	1260mm	52.8in	1342mm	
6	58.1in	1475mm	64.8in	1647mm	
7	66.5in	1690mm	76.7in	1950mm	
8	75in	1905mm	88.7in	2254mm	
9	83.5in	2120mm	100.7in	2558mm	
10	91.9in	2335mm	112.6in	2862mm	

#### Stairway Dimensions (approx)

А	Stairway Width	22.6in	574mm
В	Actuator Height	8in	204mm
С	Actuator Depth	12.2in	311mm
D	Mount Box Height	8in	204mm
Е	Mount Box Depth	26.3in	668mm
F	Handrail Height	48.4in	1230mm



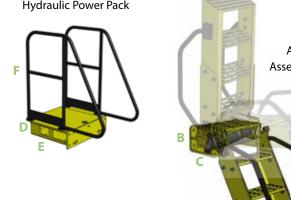
<b>RTV-LDK</b> Range Dimensions
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Steps Deck Height			Raised height		
3	74.8in	1900mm	70.3in	1788mm	
4	84.6in	2150mm	81.5in	2071mm	
5	94.4in	2400mm	92.7in	2355mm	
6	104.3in	2650mm	103.8in	2638mm	
7	114.1in	2900mm	115in	2921mm	
8	124in	3150mm	126.1in	3204mm	

#### Ladder Dimensions (approx)

А	Ladder Width	17.9in	457mm
В	Actuator Height	8in	204mm
С	Actuator Depth	12.2in	311mm
D	Mount Box Height	8in	204mm
Е	Mount Box Depth	26.3in	668mm
F	Handrail Height	48.4in	1230mm

Mount infil box enclosing the horizontal Hydraulic Power Pack



Access System Assembly (steelwork)

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