

MOBI-LOK™ ANCHOR

# SELF – CONTAINED VACUUM ANCHOR SYSTEMS



MOBI-LOK™



Desde 1981  
fabricando seguridad  
formación y protección laboral



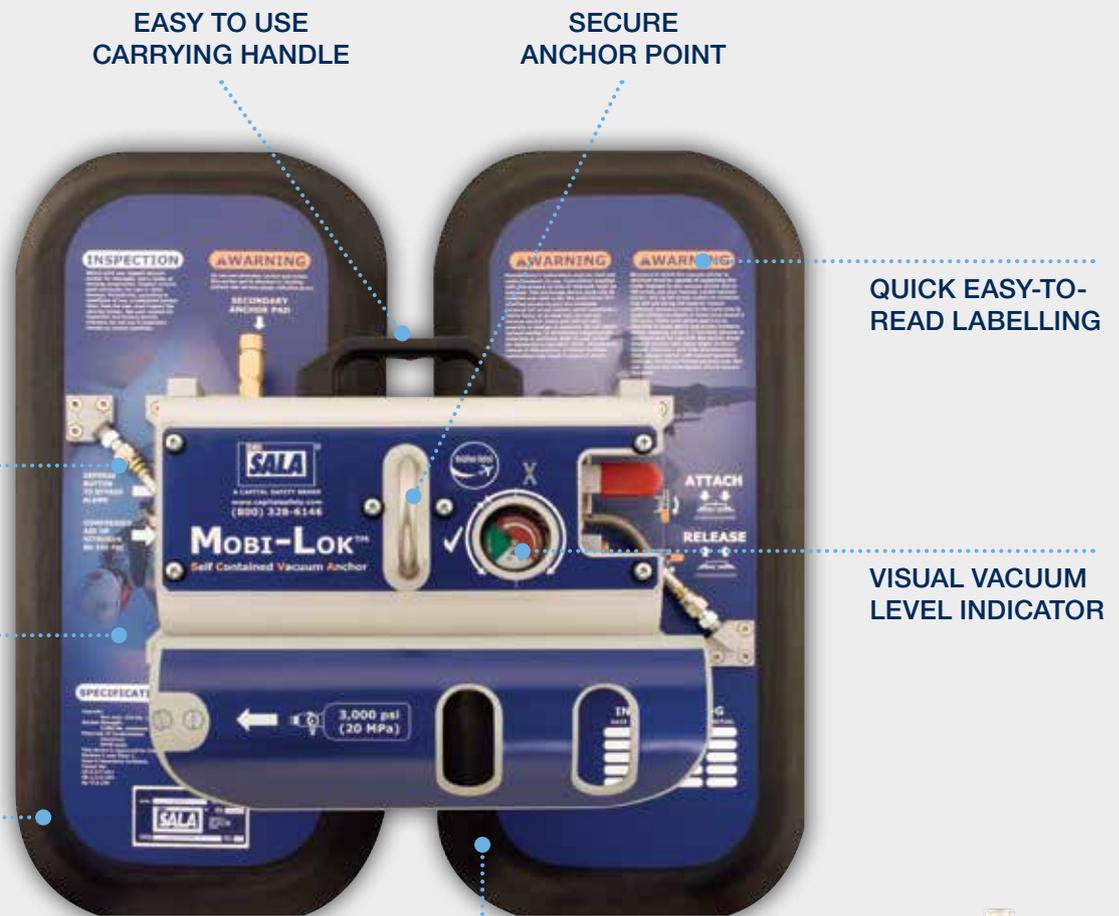
THE ULTIMATE IN FALL PROTECTION

# MOBI-LOK™ ANCHOR



## PRODUCT OVERVIEW

The DBI-SALA® Mobi-Lok™ Vacuum Anchor System provides a tie-off point on virtually any smooth, non-porous surface simply by flipping a switch and waiting for the dial to move into the green zone.



EPDM RUBBER SEAL IS SKYDROL RESISTANT, IT WON'T BREAKDOWN AND WILL LAST IN A HARSH ENVIRONMENT LEAVING NO RESIDUE



 AVIATION RATED ELECTRONICS ARE INTRINSICALLY SAFE

OPTIONAL BOTTLE ATTACHMENT PROVIDES INCREASED PORTABILITY



## FEATURES AND BENEFITS

- Fall arrest tested and approved meeting EN 795 Class B. The large footprint ensures anchor pad capacity greatly exceeds maximum arresting force.
- Lightweight design under 10kg for easy transport
- Can be installed on any surface, curved and of small diameter (min 182mm) and in any orientation. More versatility such as using overhead and on smaller aircraft.
- Version available with built-in air bottle. Faster to install as pads can be attached separately. Less equipment needs to be used and monitored. For use in situations where there is no access to shop air.
- Fail-safe back-up systems with audio alarms and vacuum level indicator. Audio alarm sounds if source of compressed air is lost or if vacuum level drops below an acceptable level.
- Alarm by-pass button for use during installation. The user does not have to endure and protect against high pitch alarms and anyone hearing the alarm instantly knows it is an issue and not an installation alarm.
- Can be used with synthetic horizontal lifeline systems. For added mobility with no risk of damage to the aircraft from the lifeline. Two and four person versions available.
- Mobi-Lok™ anchor pads utilise check valves. Maintains the vacuum if the source of compressed air is lost.
- Mobi-Lok™ anchor pads have 3 inner sealing edges. Prevents vacuum leakage.
- ATEX electrical and non electrical certification. For use in potentially explosive atmospheres.

## MOBI-LOK™ HORIZONTAL LIFELINE SYSTEMS

The Mobi-Lok™ anchors can be used as part of 2 or 4 person Horizontal Lifeline systems for use on aircraft wing and fuselage during manufacture and maintenance.

The 2 person systems uses the Sayflite™ synthetic rope system that is 8m in length. Simply connect between two or more pads to create a continuous anchor point so workers can move about more freely.

The 4 person system uses twin-lines of web, the system is adjustable to suit any length of wing, from the smallest jet to the largest Superliners. Allowing 2 workers per line and with by-passable intermediates, allows fall arrest safety for workers along the entire length of the wing without the need to detach.

Installation is quick and simple, with inbuilt tension indicator to increase accuracy and safety and can be run from either shop air or stand-alone units. The web used is highly resistant to abrasion, is non-metallic to prevent any damage to the aircraft surface during installation, and is stored on reels to allow for rapid installation and break-down. It has been thoroughly and successfully tested to all required standards after prolonged exposure to chemicals used in aviation.

The 4 main systems are available in kits for up to 30 or 40m and include the following system components:

### 2200192 30M SYSTEM COMPRISES:

- 2-End anchors and tensioners
- 2-Spool assemblies 30m web
- 3-Intermediate assemblies
- 1-Installation standard Mobi-Lok™
- 1-Installation lanyard
- 4-Adjustable work lanyards and shuttles

### 2200193 40M SYSTEM COMPRISES:

- 2-End anchors and tensioners
- 2-Spool assemblies 30m web
- 6-Intermediate assemblies
- 1-Installation standard Mobi-Lok™
- 1-Installation lanyard
- 4-Adjustable work lanyards and shuttles



## SYSTEM COMPONENTS AND ACCESSORIES

### MOBI-LOK™ UNITS

**2200126**

#### Mobi-Lok™ Primary Unit with bottle attachment

Mobi-Lok™ aviation industry self-contained vacuum anchor assembly with bottle attachment and carrying case.

It is powered up with a single, on-board 0.8 litre compressed gas bottle (order separately) or a large capacity detached bottle, or shop air. Unit can also power one additional secondary pad.



**2200125**

#### Mobi-Lok™ Primary Unit without bottle attachment

Mobi-Lok™ aviation industry self-contained vacuum anchor without bottle attachment for situations where shop air is always available.



**2200127**

#### Mobi-Lok™ Secondary Unit without bottle attachment

Mobi-Lok™ aviation industry self-contained vacuum anchor secondary pad for connection to a primary pad.



### MOBI-LOK™ ACCESSORIES

**2200085**

#### Compressed Air Bottle

CE marked 0.8l, 20680 kPa (3000 psi)



**2200086**

#### Fill Station

To fill the compressed air bottle from a bulk tank



**2200087**

#### Scuba Adaptor

To fill gas bottle from bulk air storage tank



**2200196**

#### Fill Station Adaptor

To connect fill station to Nitrogen bottle M25 connection type BV 102



**2200130**

#### Secondary Pad Hose Assembly

15m hose to connect primary pad to secondary pad



**2200409**

#### 2 Person Lifeline

8m horizontal rope 2 person lifeline for use with Mobi-Lok™ only



## TECHNICAL SPECIFICATION AND INSTALLATION REQUIREMENTS

	2200125 Mobi-Lok™ Primary Unit without bottle attachment	2200126 Mobi-Lok™ Primary Unit with bottle attachment
Main Support Assembly Material	Anodised aluminium	
Vacuum Seal Pad Material	EPDM	
Electronics Requirements	4 AA Lithium batteries	
Shop Air Requirements	80 – 150 psi	N/A
On-Board Compressed Gas Bottle Requirements	N/A	3,000 psi, 48 cubic inch
Dimensions	55 cm x 55 cm x 15 cm	
Weight	8.2kg	9.1kg
Capacity	136 kg; One person	
Surface Temperature Range	-29°C – 60°C	
Minimum Vacuum Anchor Static Capacity	15KN	
Alarm Decibel Level	105dB	
Maximum Altitude	Contact Capital Safety for usages over 3,000 ft. (915 m) above sea level.	

### THE MOBI-LOK™ VACUUM ANCHORS ARE NOT SUITABLE FOR ATTACHMENT TO:

- Composite elements/Non-metal surfaces (unless authorised by aircraft manufacturer)
- Cabin and cockpit windows
- Passenger/Emergency/Cargo doors
- Maintenance/Access doors
- Areas around cut-outs which are not sufficiently supported by structural elements (stringers and frames)

- Areas outside of wingbox in-spar skin, i.e. “No Step Lines”
- Moveable control surfaces

### ACCEPTABLE ATTACHMENTS:

- The system may be used on the fuselage where supported by frames and stringers, and on the wing upper surface between the spars.

## SERVICING INSPECTION & MAINTENANCE

### BEFORE EACH INSTALLATION

System components must be formally inspected by a competent person concentrating on visible signs of deterioration or damage. Items found to be defective must be replaced.

### INSTALLED SYSTEMS

Inspection should be carried out by a competent person must be conducted after the system is installed. The system must be periodically inspected by a qualified person when left installed for an extended period, and prior to each day's use. Periodic inspections should be performed at least monthly, or more frequently when site conditions and use warrant.

If a fall occurs, the area to which the Mobi-Lok™ Self-Contained Vacuum Anchor was attached must be removed from service and inspected for structural integrity by a competent person.

### ANNUAL SERVICE AND RECERTIFICATION

Mobi-Lok™ units should be returned to Capital Safety for an annual inspection and recertification (including battery replacement) once a year. Capital Safety has service centres in both Europe and North America. Provided no major repair is required the units will be returned in less than 2 weeks. Contact Capital Safety customer service department for more details and a price for recertification.

