



# MSA Latchways WinGrip®

Solution for the aerospace industry



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# Preventing falls from the external structure

## *Hierarchy of Control*



### ✓ Eliminate the Risk

Avoid working at height where possible. If the height factor is removed the effect of gravity becomes less relevant.



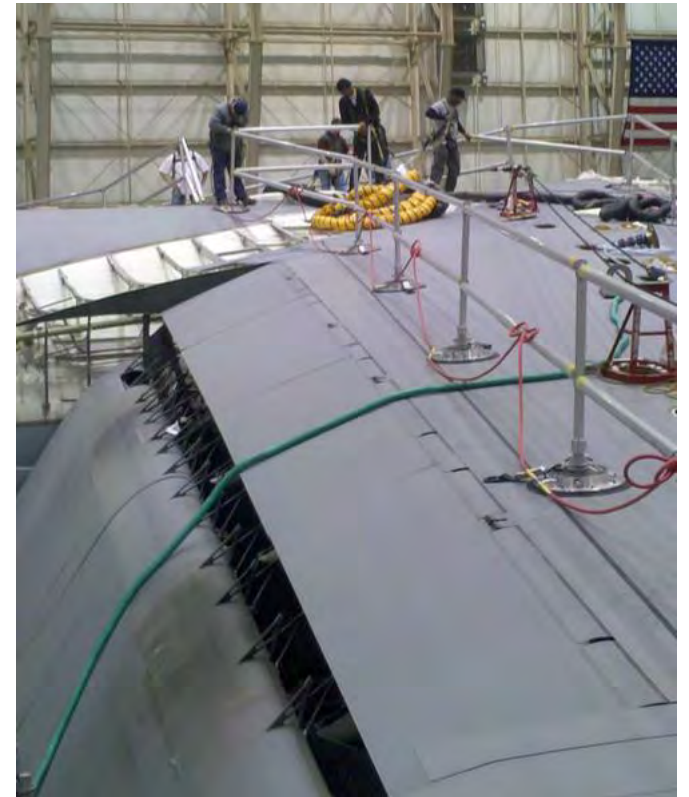
### ✓ Guard the Hazard

When working at height is essential, ensure that workers aren't exposed to unnecessary risks by providing a parapet or guardrail to eliminate fall hazards.



### ✓ Protect the Worker

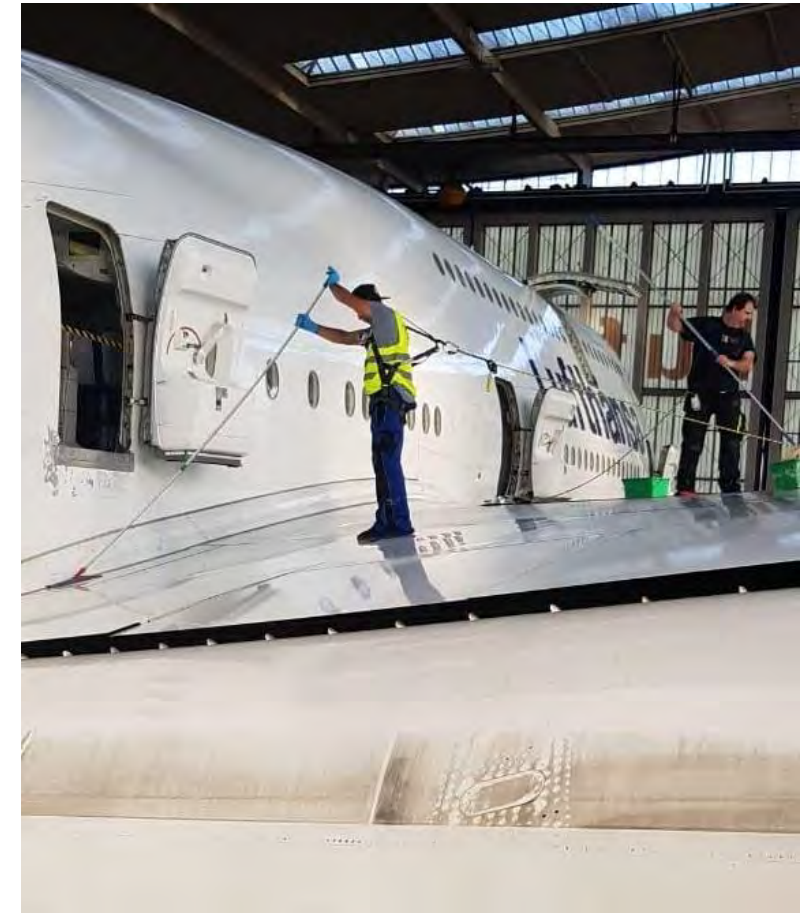
If it's not possible to eliminate the risk of falling, use the appropriate fall protection system to help minimize the consequences of a fall.



# Safety First

***Falls still remain the leading cause of death in workplaces***

- Working at height represents a common working situation for the maintenance staff with the risk of fall if the proper precautions are not followed
- Falls can be from:
  - the aircraft doors
  - the aircraft's internal structure (non-pressurized section of the aft fuselage, landing gear bays, the avionics bay)
  - the aircraft's external structure (wings, horizontal stabilizer)





# Preventing falls from the external structure

## *Why Fall Restraint in the aerospace industry?*

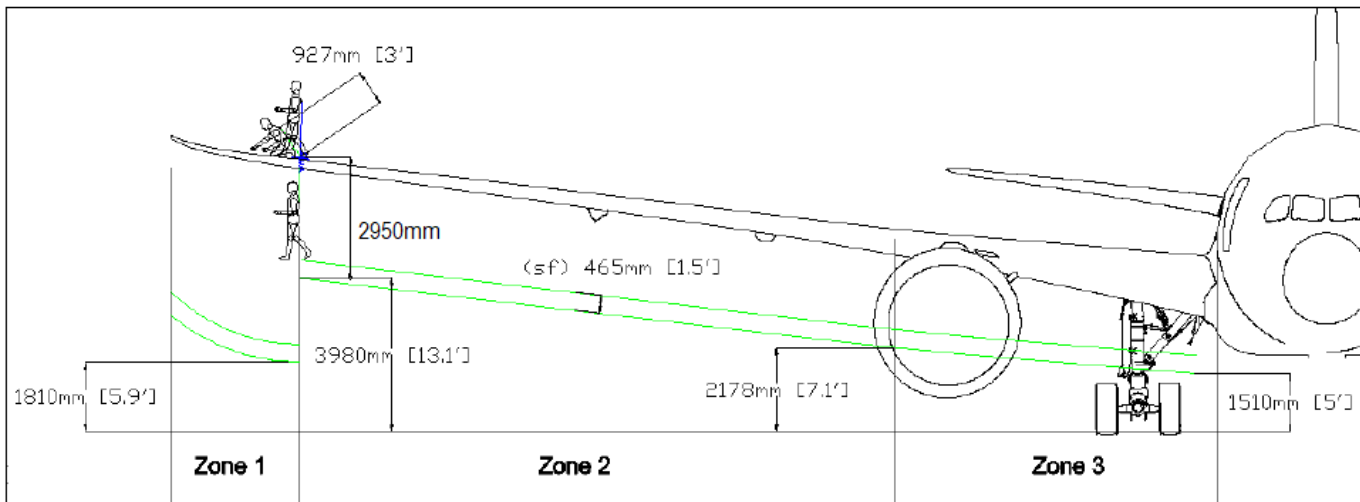


Figure 5 - Wing front view

- ✗ Overhead cranes cause major restriction for usage
- ✗ Multiple Overhead systems needed to suit all aircraft type and need fall clearance
- ✗ Can have restricted user numbers
- ✗ Operators cannot easily pass each other

# Fall Arrest and Restraint

Fall Arrest

Restraint



Infrastructure

Base maintenance

Line maintenance



# WinGrip AIO & WinGrip Single / Multi Anchor Device

## Where to Use

- Line Maintenance (on Parking)
- Check A
- Check B



## Examples

- Logo light, other lights
- Quick wing inspection
- Pylon access
- Dry bay
- Wing cleaning

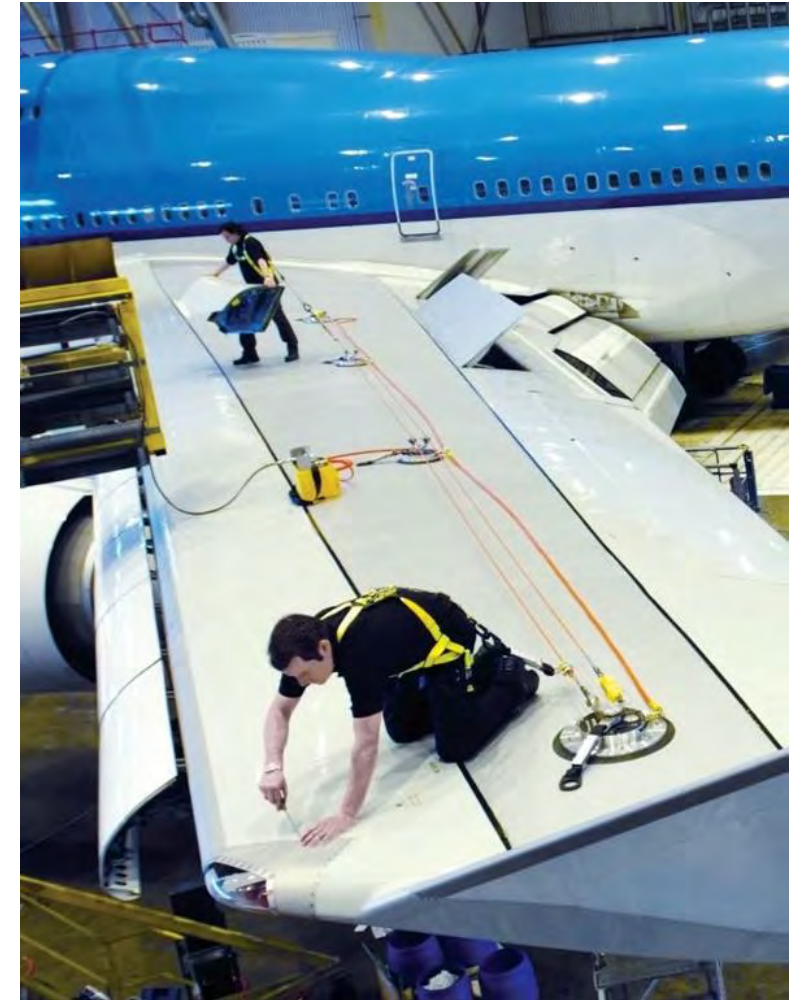
# Multi-User System

## Where to Use

- Check C
- Check D

## Examples

- Overall
- Pylon access
- Fuselage



# Introducing MSA

- Established in 1914 by two mining engineers
- Headquarters in Cranberry Township, Pennsylvania, USA
- MSA Latchways Fall Protection Engineered systems design center, Devizes, UK

## Our mission:

That men and women may work in safety and that they, their families and their communities may live in health throughout the world.



*MSA Corporate Center, PA, USA*



*Devizes, UK*



**We care about performance**

Every year we are testing Fall Protection solutions over 2000 times in our test facilities in the USA and the UK

# MSA Can Help

The Latchways WinGrip®



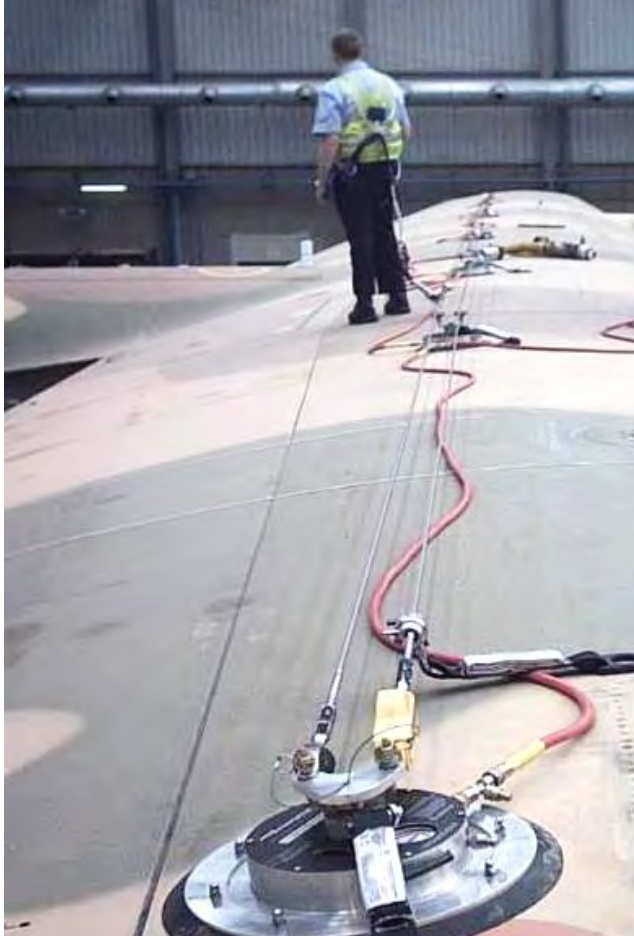
# WinGrip System configurations



All-in-One



Single / Multi Anchor



Multi-user system



Guardrail system





# Thank You

At MSA, we know what's at stake.