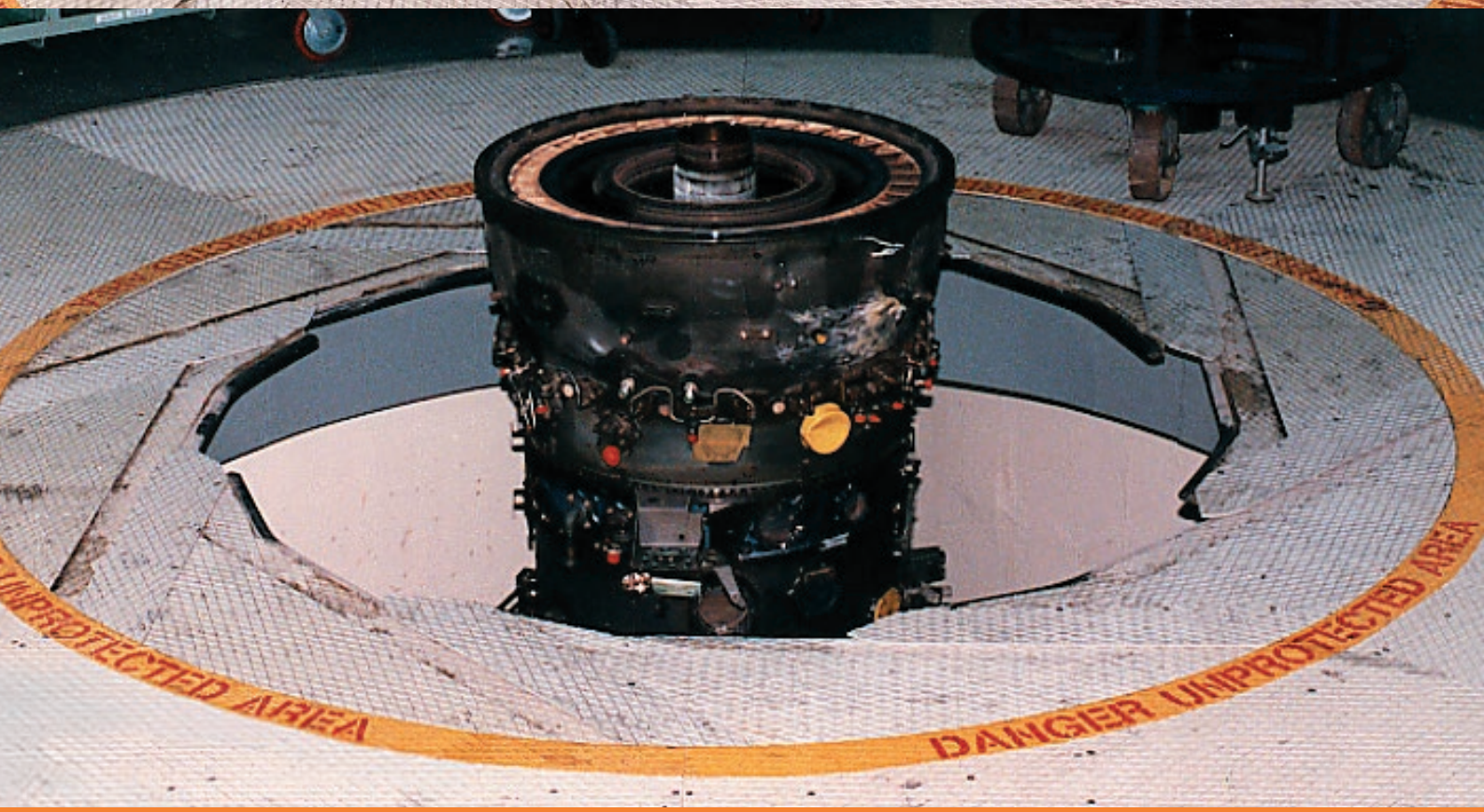





KOREAN AIR, SOUTH KOREA

CASE STUDY

# 30 years of specialized access for aircraft engine maintenance

Access anytime, anywhere

ALIMAK

Copyright © Alimak Group. All rights reserved.

KOREAN AIR, SOUTH KOREA

# 30 years of specialized access for aircraft engine maintenance

**For 30 years, the Alimak™ Iris Work Platforms have supported aircraft engine maintenance at Korean Air. Originally developed to improve access, working conditions and efficiency during engine overhaul, the solution is now entering a new chapter, with Korean Air ordering new Alimak platforms to replace the original units.**

## THE CHALLENGE

Aircraft engine maintenance is both time-consuming and demanding. In the 1990s, Korean Air was looking for a way to improve access during engine overhaul while creating better working conditions for maintenance technicians.

Traditionally, engines were positioned horizontally in cradles, requiring technicians to bend or work in difficult positions to access different areas of the engine. Alimak was challenged to develop an access solution that could improve working conditions while helping make the maintenance process more efficient.

## THE SOLUTION

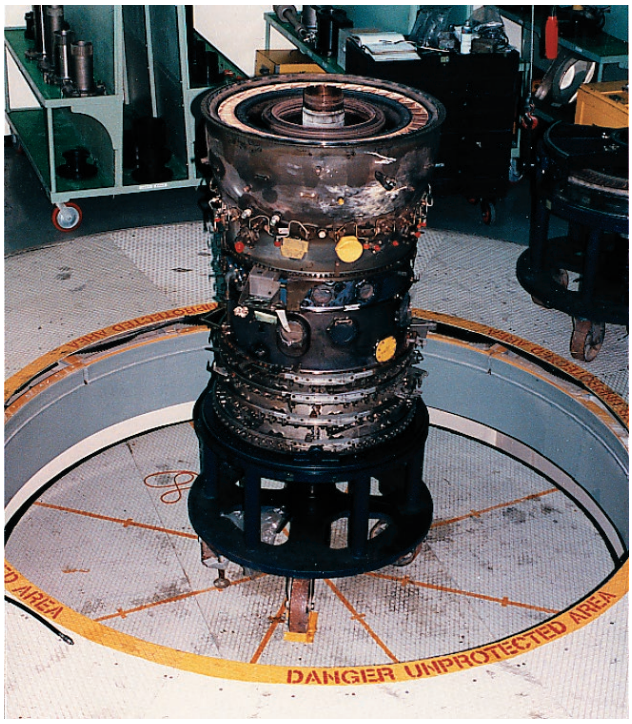
Alimak developed the Iris Work Platform, combining proven rack and pinion technology with an adjustable working platform specifically designed around the aircraft engine.

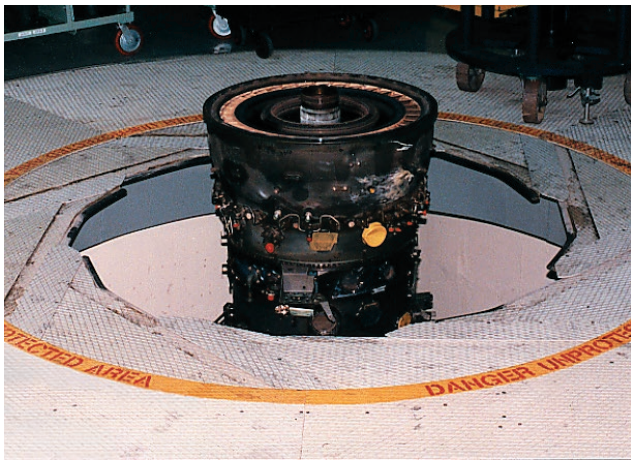
A rack and pinion-driven centre platform travels vertically along a mast, allowing the engine to be positioned at a suitable working level. Surrounding it, movable floor plates open and close like the iris of a camera, allowing technicians to adjust the platform opening to follow the contours of the engine and work closer to it.

Following the original installation, Korean Air reported significant improvements:

- 30% reduction in engine turnaround time
- 40% reduction in workforce requirement
- Improved ergonomics, with a reported reduction in repetitive strain injuries

Results reported by the customer following the original installation.

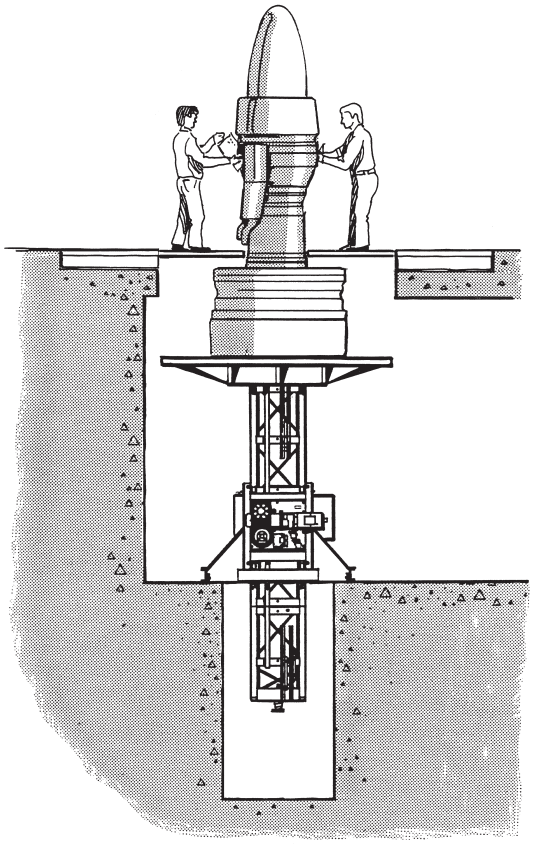




Copyright © Alimak Group. All rights reserved.

# KOREAN AIR, SOUTH KOREA



### A SOLUTION FOR THE LONG TERM

30 years after the original Iris Work Platforms were supplied, Korean Air has placed a new order with Alimak to replace the existing units.

The new equipment is currently being manufactured, continuing an application that dates back to the original installation in the 1990s.

The new order continues an application that began in the 1990s, highlighting the long-term relevance of specialized access solutions for aircraft engine maintenance.

## PRODUCT DETAILS

| | |
|---|---|
| Location: | Korean Air, South Korea |
| Application: | Aircraft engine maintenance |
| Industry: | Aviation |
| Product: | Alimak Iris Work Platform |
| Technology: | Rack-and-pinion |
| Original installation: | 1990s |
| Replacement order: | 2026 |



Copyright © Alimak Group. All rights reserved.

*Alimak™ is a global market leader and pioneer in the design and manufacture of vertical access solutions for industrial and construction industries. The company provides high quality rack and pinion and traction elevators, construction hoists and work platforms. Alimak has a well-established global sales, service and distribution platform across more than 100 countries with strong market presence. The company has a large global installed base of over 23,000 units which provides unique know-how of all industrial application areas. Alimak was founded in 1948 and is part of Alimak Group which is headquartered in Stockholm, Sweden.*

**www.alimak.com**

ALIMAK

Pictures are illustrative only and do not necessarily show the configuration of products on the market at a given point in time. Products must be used in conformity with safe practice and applicable statutes, regulations, codes and ordinances. Specifications of products and equipment shown herein are subject to change without notice. Copyright © Alimak Group. All rights reserved. ALIMAK and related logos are registered trademarks of Alimak Group AB (publ) and its subsidiaries ("Alimak Group"), in several jurisdictions, including but not limited to the EU and the United States. Alimak Group retains all rights in its name and for above mentioned trademarks, whether registered or not.

1033 EN Oct. 2026