

# RALS

## Runway Arrested Landing Site



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The Runway Arrested Landing Site (RALS) is an underground complex which simulates the shipboard installation of naval aircraft recovery systems. This facility, located on a 12,000 foot runway, possesses MK-7 Mod 2, Mod 3, and Mod 3+ Arresting Gear. It is the only facility in the world capable of both high speed ground roll-in and fly-in aircraft arrestments.

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## Technical Data:

- Maximum Energy Absorption:
  - MK-7 Mod 3:  
43 million ft-lbs
  - MK-7 Mod 3+:  
48 million ft-lbs
- Maximum Runout:  
345 feet
- Cable Operating Load:
  - MK-7 Mod 3:  
95,000 lbs
  - MK-7 Mod 3+:  
105,000 lbs
- Cycle Time:  
30 seconds
- Maximum Cylinder Pressure:
  - MK-7 Mod 3:  
10,000 psi
  - MK-7 Mod 3+:  
11,000 psi

The runway arrested landing site includes an underground complex located on a 12,000 foot dedicated runway. MK-7 Mod 2, Mod 3, and Mod 3+ arresting gear are located under the runway, and accurately simulate a fleet aircraft carrier installation. It provides a place to test changes to aircraft recovery equipment and aircraft under safe controlled conditions prior to introduction to the fleet. The RALS is the only facility in the world capable of making both high speed ground roll-in and fly-in arrests on all types of recovery systems used in the fleet. The roll-in procedure is especially useful because it allows safe, repeatable test conditions. If the aircraft should bolter (miss the arresting gear wire), there is 7,000 feet of runway in which the aircraft can either takeoff or come to a safe stop.

POC  
(908) 323-7713  
DSN 624-7713