



Location: Kennedy Space Center;
Merritt Island, FL
Industry: Aerospace



QUICK IDENTIFICATION OF FAILURE POINT

THE RESULTS

Fact Finding and Troubleshooting: The Iris M™ allowed for timely identification of the faulty transition.

Data Driven Decisions: Motion Amplification® video and displacement data aided contractor decisions to refurbish transition.

Operational Efficiency: Elimination of probable failure point enhances rocket transporter operations and potentially avoids costly repairs and scheduling delays.

THE CHALLENGE

Aerospace contractor Amentum was investigating root causes of cracks developing in large rocket transporter traction shoes. A field study of transporter travel path transition areas drove the need to employ RDI Motion Amplification® technology to further investigate the cause of the cracks.

THE SOLUTION

The in-house maintenance and reliability team at Amentum utilized two Iris M™ systems to capture opposing sides of the travel path threshold transition areas while the transporter was in motion.

Analyzed data revealed that the transition material moved downward significantly as peak load was applied. This downward movement in the transition created a situation where a traction shoe could be loaded unevenly.

The RDI data initiated a refurbishment of the faulty travel path transition.

- The excavation and removal of the old transition revealed that soil compaction underneath the transition had been compromised over time.
- The transition was completely refurbished and returned to print, thereby eliminating a probable failure point.



Click or Scan to View the Video Results



Crawler-transporter responsible for moving rockets and spacecraft to the launch pad at NASA's Kennedy Space Center in Florida for over 60 years.