



## Product

## Custom Heavy-Duty Gearboxes

## Application

## Swing Bridge

## Highlights

- Custom-designed enclosed reducers
- Special center distances
- Fabricated steel housings
- Load tested to 150%

The Lindsey Warren bridge that spans 3 miles across the Alligator River in North Carolina recently underwent a major renovation. Originally built in 1962, the two-lane bridge carries U.S. 64 vehicular traffic between Tyrrell and Dare counties. The North Carolina Dept. of Transportation approved the renovation project that included the mechanical and electrical components positioned below the bridge's center swing span that allows marine traffic to pass through the bridge.

Nuttall Gear designed and manufactured two new enclosed gearboxes for the bridge. Both units featured fabricated steel housings and were load tested to 150%. All welds were inspected by an Independent Certified Weld Inspector (CWI). Special center distances were required.

- Primary Parallel Shaft Differential Reducer:  
Input rating: 25 HP @ 870 RPM, Reduction ratio: 30.41:1
- Wedge Machinery Parallel Shaft Reducer:  
Input rating: 7.5 HP @ 870 RPM, Reduction ratio: 28:1

US (Application Assistance)  
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