



# TIMKEN SUPPORTS \$125 MILLION CHELSEA LIFT BRIDGE IN BOSTON, MASSACHUSETTS

## CHALLENGE

Towering heights. Heavy weights. When a lift bridge raises into the air, there are extreme forces at work – especially on the components that help them move.

When plans were developed to redesign the Chelsea lift bridge in Massachusetts, Timken was called to provide a custom bearing solution for the structure – one that could withstand the bridge’s extreme operating conditions.

## TIMKEN SOLUTION

Our team provided technical support on selecting the right bearing design, size and configuration. The solution included eight ultra-large Timken® spherical roller bearings with custom SAF housings to support the bridge sheaves, which guide the wire cables that lift the bridge span. We also chose eight sizes of Timken® tapered roller bearings for the bridge’s large gearboxes – all key components in the hoisting power transmission system.



## RESULTS THAT MATTER

We worked together to provide a full range of customer and technical support services from start to finish, including:

- Application and on-site service engineering services.
- Collaboration by working with customer design engineers to address application challenges and produce bearings to fit their needs.
- On-site bearing installation and on-going support.

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.