

# ENGINEERED FASTENERS SOLUTION

## Challenge

A major amusement and entertainment park required a fastener for the car body lift arm on their popular earthquake ride. It must meet strict vibration criteria and have a plating that will resist corrosion caused by the cleaning agent. Performance has to be met on a constant basis. The car body lift arm is on the underside of the ride and fastens the arm of the trolley wheels to the car.

## Solution



Unbrako engineers, interacting with the customer & ride design company, developed & manufactured a high strength 3/4" – 10 x 15" cadmium plated life safety socket head cap screw specifies for this application. Our proprietary fillet radius and run out root radius give the fastener its high fatigue endurance. Cadmium plating met the corrosion resistance criteria for Frankling Chemical 717 and brine solution.

## Benefit

Improved passenger safety and maintenance cost reduction. Unbrako supplies replacement and MRO parts for this ride. Customer engineers contact Unbrako engineers for ongoing technical advice on new applications. Unbrako Engineered Fasteners specializes in developing custom fastening systems for one-of-a-kind, high volume applications. Services include engineering, manufacturing, accredited quality control and post-delivery liability insurance supporting protection of the manufacturer.

