



EXOTIC

AUTOMATION & SUPPLY

Noise Reduction for Amusement Park Ride Application

Problem

A customer was tasked with designing a system for a new ride at a popular amusement park. The issue they came across was the amount of noise created by the actuator. The dB levels needed to be reduced in order to meet their customer's specifications.



Solution

Exotic's Engineering team and product experts from Parker worked together to provide a solution for the customer. They knew that by switching from a lead screw to a ball screw they could significantly reduce the noise. They also proposed a specialty dual carriage design which reduced the noise level further and created a more secure lift for the door.



Factory testing determined that the dB level of the door opening was less than 40dB, which was under the customer's specifications.

Featured Products

HMRB11 Belt Driven Actuator – Offering extreme configurability and maximized application optimization, the HMRB11 belt driven actuator utilizes two square rail bearing guides for maximum moment loading capacity and is ideal for single or multi-axis systems.