

700 SERIES SPEED REDUCERS

VEHICLE BARRIERS



PROBLEM

A leading manufacturer of barriers and security products needed a competitively-priced gearbox for use on its anti-ram wedge vehicle barriers. The gearbox is connected (via a U-joint) to an electric drive motor that raises or lowers the barrier in less than 2 seconds. The entire drivetrain is positioned beneath the street. When in the fully-lowered position, the barricade is flush with the road surface.

SOLUTION

After a review of several gearbox options, cost-effective Boston Gear 700 Series speed reducers were selected based on superior quality and a premier brand name reputation. Model 710 gearboxes were provided to meet the unique application's limited space and performance requirements. The units supplied feature a 10:1 ratio and carbon steel output shafts.

Boston Gear's 700 Series is the industry standard for modular worm gear construction. Units feature a rugged, fine grained cast iron housing for maximum strength and durability. Enhanced rigidity and one-piece construction ensure precise alignment of the worm and gear.

The internal worm is specially-ground for enhanced efficiency, quiet operation and lower heat generation leading to prolonged product life. All models are leak-free, self-contained and lubed-for-life.

HIGHLIGHTS

- 10:1 Reduction ratio
- Rugged reducer housing of fine-grained, gear quality cast iron provides maximum strength and durability
- World-class worm gear technology provides quiet operation with efficiencies that can exceed 90%
- Carbon steel output shaft
- Double lip oil seals for leak-free performance
- Large oil reservoir allows for high heat dissipation

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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

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