

Heavy Duty Gen2 UniModules

BAGGAGE HANDLING SYSTEM

PROBLEM

A major airline wanted longer life and fewer start up problems from clutch/brakes used on its baggage handling conveyers at their primary hub airport terminals. Main support bearings were failing on existing clutch/brakes due to extreme tension of side-loaded timing belt pulleys.

SOLUTION

To meet the challenges associated with this tough baggage handling conveyor application, Warner Electric engineers modified the design of their highly successful Gen2 UniModule clutch/brake.

The result was the development of the Heavy Duty Gen2 UniModule which features two significant design modifications. Larger load capacity bearings were utilized which increased bearing dynamic load capability by over 45%. The armature and spline hub were modified by increasing the spline length by over 80% resulting in a 44% decrease in spline compressive stress. With the modifications, the new HD Gen2 UniModules showed zero spline wear in 300,000 cycles during conveyor cycling laboratory tests.

Extensive field testing by the airline also confirmed enhanced performance. Gen2 UniModules come fully assembled, pre-burnished and factory tested for easy “bolt it down, wire it up” installation. Units require no adjustment since patented Auto-Gaps™ automatically adjust for wear. Other features include completely sealed coils, finned housings for maximum heat dissipation and high torque, long life, lead-free/asbestos-free friction material.



HIGHLIGHTS

- Economical, compact clutch/brake package
- Designed for easy install/replacement
- Modified armature and spline hub
- Higher load capacity bearing
- Optional conduit box, CBC-150 and CBPC controls available

Regal Rexnord

Contact us: 1-800-825-9050

warnerelectric.com | regalrexnord.com

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>.

To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>.

“Regal Rexnord” is not indicative of legal entity. Refer to product purchase documentation for the applicable legal entity. Regal Rexnord and Warner Electric are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

© 2023, 2026 Regal Rexnord Corporation, All Rights Reserved.
MCCSS-P-7207-WE-EN-US 05/26

