



Product

Heavy Duty Gen2 UniModules

Application

Baggage Handling System

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

A major airline wanted longer life and fewer start up problems from clutch/brakes used on their 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.

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.

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