

Pump **up** your fleet.

Get up to 25% more productivity from your locomotives with BrightStar™



Add to your fleet capacity.
Or reduce the number of
locomotives needed to
haul the same tonnage.
Upgrade with BrightStar.
It's an advanced digital
microprocessor system
that dramatically improves
the adhesion capability of
your existing locomotives.

BrightStar from GE reliably controls and monitors all critical locomotive systems. Combined with self-diagnostics, it improves troubleshooting, reduces maintenance and cuts road failures. You'll get greater locomotive productivity than you may have thought possible—with unit reduction opportunities that generate further savings on maintenance and fuel.

BrightStar has a proven record of performance on hundreds of locomotives around the world. It's available as a stand-alone upgrade or with modernizations of locomotives made by GE and others utilizing new or unit exchange OEM components from GE.

Easily installed on older model locomotives from GE, EMD, Alco and others.*

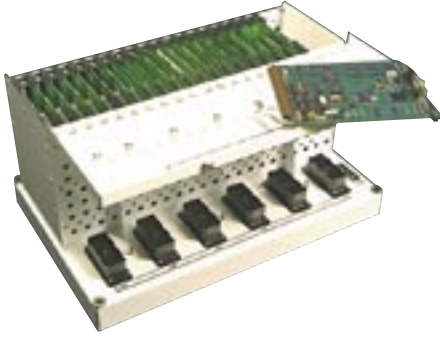


The BrightStar™ Control System

Using advanced microprocessing and Flash-based memory, BrightStar seamlessly integrates control and monitoring of primary locomotive systems: the engine, traction motors, alternator, rectifiers, air system, blowers and cooling system.

Monitoring and diagnostic capabilities include real-time data reporting, automatic and prompt-directed system self-testing and maintenance event logging with direct PC downloads. The easy-to-use display is menu-driven with multi-lingual capability.

Installation of the system is straightforward. Simplified interfacing with your locomotives' systems allows for fewer components and connections, assuring minimal downtime once you decide to upgrade.



The benefits

BrightStar brings new life to older locomotives—improving reliability, availability and productivity.

System reliability

Consolidated circuitry with fewer relays, interlocks and connections in a proven design make BrightStar more dependable than analog controls.

26% adhesion

Advanced wheel creep control enables all-weather adhesion increases of up to 26% and boosts tractive effort up to 25%—improving tonnage capabilities and/or unit reduction opportunities.

Greater availability

Improved adhesion minimizes stalls, and better systems control and monitoring reduces road failures, maximizing locomotive uptime.

Self-diagnostics

Operator-friendly diagnostics and displays improve system troubleshooting and reduce maintenance time and costs.

Protection features

Capabilities include traction motor thermal protection as a standard option as well as engine, alternator, rectifier, cooling system and plugging/stall protections.

To learn more: Contact your account manager at GE - Transportation or visit us online at www.getransportation.com.



imagination at work

* EMD is a trade designator of Electro-Motive Diesel, Inc. GE is not an authorized EMD distributor, nor is otherwise associated or affiliated with EMD. However, GE does represent that its replacement parts, components, subsystems and services are compatible with and usable on EMD locomotives and engines.