



# LOCOMOTIVES

# SMARTCONSIST™ FUEL MANAGEMENT SYSTEM

Freight trains are typically dispatched with enough locomotives in consist to make the “ruling grade” — often resulting in surplus power for most of the trip, with trailing locomotives operating at the same throttle setting as the lead unit.

The new EMD® SmartConsist™ Fuel Management System automatically sets each locomotive to its optimal throttle position — improving fuel economy, cutting emissions, and reducing noise in the lead locomotive.

SmartConsist™ is fully integrated within the EM2000™ locomotive control system and its operation is transparent to the crew. The engineer simply selects the desired throttle notch in the lead locomotive, and the most fuel efficient power settings are activated for each unit. SmartConsist™ continuously monitors and sets the most fuel efficient combinations to achieve the required power and tractive effort.

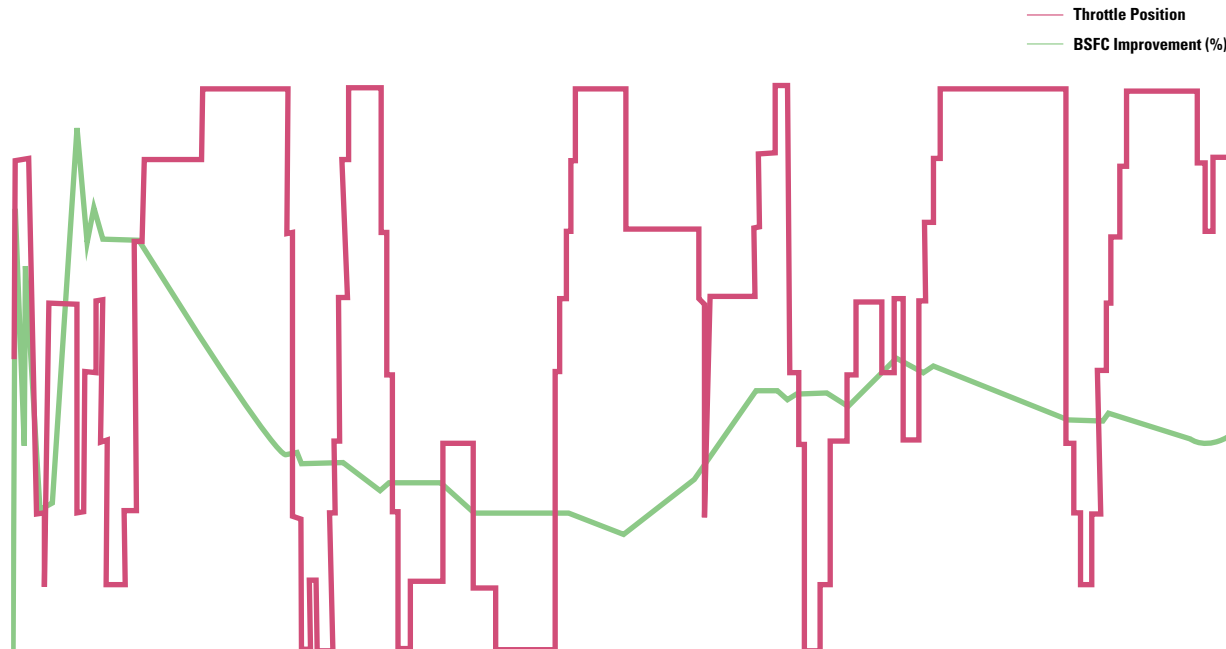
The EMD® SmartConsist™ Fuel Management System can be applied to the in-service EMD® locomotive fleet and is offered as an option on all new EMD® locomotives. And with fuel savings of 1-3% per locomotive, railroads can expect an early payback on their investment.

### SmartConsist™ Features

- Suitable for both two-and three-unit locomotive consists, without unit isolation.
- Installation is simple and quick.
- Required only on the lead locomotive to achieve savings from all units.
- Trailing units can be any vintage or manufacturer.

### SmartConsist™ Benefits

- Fuel savings of 1-3% per locomotive in typical line haul operation.
- Extended overhaul cycles from reduced power settings.
- NOx and CO2 emissions reductions up to 3%.
- Added crew comfort with reduced noise in the lead unit.



# Progress Rail

A Caterpillar Company

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