



# Trip Optimizer™

## Core Capabilities

- Closed-Loop Auto Control of throttle and dynamic brakes with constant operator supervision and return to control at any time
- Auto-Independent Distributed Power for auto train handling of longer trains over difficult terrain

## Differentiating Features

- Automatic controls of throttle, dynamic braking—Locotrol DP remote consists, all according to plan
- Builds individual plan for each train over a given territory
- Monitors actual HP, speed, wheel slip, engine health, rail quality and wind effect—not a model-based estimation

## Optimized Outcomes

- Sustainable fuel savings of 3-17% (depending on train type and terrain)
- Emissions reduction
- Efficient train handling

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## Save fuel and optimize your trains, automatically.

Train length and weight. Track conditions and grade. Driver response time and deviation between drivers. These are just a few of the factors that influence the speed and efficiency of freight delivery—and its impact on your business' bottom line.

A state-of-the-art onboard train control system, **Trip Optimizer (TO)** functions much like an aircraft's autopilot, learning a train's characteristics, creating an optimal trip profile, then automatically controlling locomotive throttle and dynamic brakes to reduce fuel burn and provide efficient train handling.

**The result? Trains run on time, operate more smoothly and use fuel more efficiently — resulting in 3-17% fuel savings and corresponding emissions reduction.**

**10% fuel savings certified by the EPA**

