Trip Optimizer™

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 throttle and dynamic brakes to reduce fuel burn and ensure safe train handling for locomotives.

The result? Trains that run on time, operate more smoothly and use fuel more efficiently—cutting your emissions by 3-17% and saving on the cost of fuel.

Emissions savings certified by the EPA

10%

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 and emissions savings of 3-17% (depending on train weight, configuration, terrain, etc.)
- Proven to reduce break-in-twos with improved train handling by reducing operator performance variance while in automatic train handling mode