FOR TODAY’S CHALLENGES

To meet demand for longer, heavier trains — and provide efficient train handling — rail companies are choosing advanced distributed power systems that enable remote control of locomotives in separate consists from the lead locomotive.

Wabtec’s LOCOTROL® Distributed Power System is a proven control and communication system that enables coordinated braking and traction power distribution between lead and remote locomotives—for increased hauling capacity, improved fuel efficiency, and reduced operating costs.

THE INDUSTRY STANDARD

Wabtec’s LOCOTROL Distributed Power system was launched over fifty years ago and during that time has become the leading control and communication system, enabling coordinated braking and traction power distribution between lead and remote locomotives on over 21,000 locomotives in 17 countries.

Today, the LOCOTROL system interfaces with almost every type of braking system and locomotive control system and serves as the platform for future train automation for advanced train operations.

The result? Increased hauling capacity, throughput and capacity. Better rail adhesion. Improved fuel efficiency. Increased system throughput. Lowered brake-pipe charging time. And reduced operating costs.

50+ Years of Operating Experience  
21,000+ LOCOTROL DP Systems Installed Worldwide
NEXT GENERATION PLATFORM

LOCOTROL Expanded Architecture (XA) is the next-generation platform providing a host of enhancements and productivity applications designed to increase the reliability and robustness needed for today’s railroad operations. Architected for the future of digital-rail communications, LOCOTROL XA utilizes multiple communication options to increase bandwidth and connectivity, resulting in 50% reduction in DP communication losses and associated train delays. Current DP customers can realize significant benefits by updating to the newer XA platform.

In addition to being the platform for next generation distributed power, LOCOTROL XA is also the foundation for Remote Control Locomotive and Drone Control.

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<th>KEY CAPABILITIES OF LOCOTROL XA</th>
<th>BENEFITS &amp; OUTCOMES</th>
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| Dual-radio receive diversity facilitates 50% reduction in Distributed Power communication loss, enabling trains to run at track speed more frequently and driving velocity improvements across the network. | Increases Train Hauling Capacity  
Enables longer, heavier trains. |
| DP messages over the ITCM network (PTC network) provides additional communication options (220 MHz, Cell, Wi-Fi) and higher data bandwidth, as a backup to the radio network. | Improves Train Handling  
Reduces in-train forces and reduces break-in-twos. |
| Integrated HOT & mid-train HOT/EOT repeating reduces EOT communication losses and enables longer trains. | Increases Fuel Efficiency  
Reduces lateral forces and friction, resulting in fuel savings of 4-6%*, 3% EPA certified. |
| Triple HOT redundancy with DP radios serving as alternative HOT radio. | Increases Efficiency  
Increases throughout and efficiency; reduces cycle times. |
| Enhanced diagnostics provide accurate troubleshooting and better train decisions. | |
| Over-the-Air software updates ensure rapid software updates and feature deployment. | |
| Operates on both diesel and electric locomotives, for easy fleet standardization. | |

* U.S. Federal Railroad Administration, Best Practices and Strategies for Improving Rail Energy Efficiency