

halo

TIRE MANAGEMENT

BY

Aperia
TECHNOLOGIES



PROFITABILITY & EFFICIENCY

WHERE THE RUBBER MEETS THE ROAD

THE HALO SOLUTION

Aperia delivers the most comprehensive, user-friendly tire management platform for medium and heavy duty commercial fleets worldwide. Halo Tire Management combines connected, self-powered tire pressure automation hardware with a machine-learning tire analytics platform. With a million tires under management, the combination enables powerful operational, safety, and environmental improvements for trucks and trailers.



2000+ customers running Halo in broad applications



50B+ Halo miles logged with <0.1% warranty return



ONLY solution available for medium & heavy duty trucks and trailers

THE PROBLEM

Every year, trucking fleets spend billions of dollars manually managing tires, which is the leading cause of asset downtime. Reactive tire management practices are proven to lead to chronic tire underinflation and other operational inefficiencies.

DIFFERENTIATION AT EVERY LEVEL

The Halo Tire Management platform is comprehensive, cost-effective, and customizable, so carriers can invest in the tools that deliver the most value for each unique application. Whether the goal is to reduce downtime and tire touches, improve fuel economy and tire life, or have a data-driven tire selection and service approach—Aperia has you covered. Halo Tire Management is differentiated on every level. While other offerings serve up commoditized data and overwhelm fleet resources, Halo Tire Management transforms the three key aspects of tire maintenance to create differentiated fleet value:

TIRE PRESSURE MANAGEMENT The platform automates tire pressure inflation for consistent, fleet-wide performance. With remote setpoint adjustment and pressure automation by Halo, fleets can eliminate 70+ percent of tire touches fleetwide while improving fuel efficiency and tire life.

TIRE ANALYTICS Halo Tire Management provides a clear insight into tire health from cradle-to-grave, whereas other systems' threshold-based alerts deliver data overload. Halo Tire Management uncovers tire leaks and their severity, how much safe drivetime is left before service is required, tire damage accumulated before retreading, and more.

SEAMLESS INTEGRATIONS The Halo Tire Management platform is customizable and integrates seamlessly into fleet workflows. Whether using the intuitive out-of-the-box web-based portal, integrating into existing telematics, maintenance, driver tools, or even the vehicle CAN network, Halo Tire Management is easy to use for maximum value creation.

	TIRE PRESSURE MANAGEMENT			TIRE ANALYTICS					INTEGRATIONS INTO FLEET INFRASTRUCTURE			
	Automatic Tire Inflation	Wheelend Accessory Compatibility	Remote Setpoint Adjustment	Predictive Pressure Analytics	Leak Detection/Classification	Advanced Tread Analytics	Tire Damage Tracking	Make/Model Performance	Asset Tracking	Driver Notifications	Pre-Trip Inspection	API Integrations
Heavy-Duty Truck	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trailer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Medium-Duty Truck	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Delivery Van & Light Duty	—	—	—	—	—	—	—	—	—	—	—	—

PRESSURE AUTOMATION + PREDICTIVE MAINTENANCE

INDUSTRY AWARDS/RECOGNITION



TANGIBLE SAVINGS + FUTURE-PROOF TECHNOLOGY

Halo Tire Management is a future-proof platform that has transformed the fleet-tire relationship. Delivering tangible savings day-in and day-out, the industry's most trusted brands rely on the Halo Tire Management platform to deliver consistent impact amidst a rapidly evolving truck technology landscape.



FUEL

Boost Fuel Efficiency **1-3%**



TIRES

Extends Tire Life **10-20%**



PRODUCTIVITY

Save Tech & Manager Efficiency **230+ min**



ERS

Reduce Emergency Roadside Cost **90%**



MAINTENANCE

Reduce Checking & Filling Tires **200+ min**

\$2,300+ ANNUAL SAVINGS PER TRUCK

\$8.2 M+
LIFETIME SAVINGS

8-18 MOS
INVESTMENT PAYBACK

80%+
INVESTMENT IRR

12K TONS
CO2E SAVED

FLEET LIFETIME BENEFIT EXAMPLE (1,000+ TRUCK)

Fleet-to-Fleet savings will vary. Values shown represent typical savings seen by hundreds of fleets spanning 7+ years and 50 B+ on-road Halo miles.

“Halo Tire Management has increased fuel economy and tire life, and reduced downtime in our fleet. The technology is best-in-class.”

Christopher Trajkovski

VP of Transportation, Fleet Maintenance & Assets

TRUSTED BY THE INDUSTRY'S TOP BRANDS



COMPREHENSIVE TIRE MANAGEMENT CUSTOMIZED TO YOUR FLEET

Aperia first transformed commercial vehicle tire management with its Halo Tire Inflator which solved the problem of tire under-inflation.

Aperia's active inflation with remote setpoint adjustments and predictive maintenance expertise span all vehicle architectures and markets, transforming how fleets interact with their tires. Utilize Aperia's comprehensive suite of tools to fully optimize your fleet's tire management practices, or select only the tools that best serve your fleet at this point in time. Aperia's platform is flexible and designed to evolve as your business needs change.



TRANSFORMING DATA INTO ACTION

Halo Tire Management's analytics engine transforms data into insights so fleets can address their most pressing challenges at the wheel end. The analytics engine can receive tire pressure, GPS, tread depth, temperature, load, and vibration data markers to assess overall tire and wheel end health. Machine learning is used to detect potential issues by vehicle tire position. It classifies them by severity in addition to identifying tires reaching end-of-life, mismatched, leaking, or that may benefit from an updated cold inflation pressure target (CIP) for longer tire life. Service recommendations are issued to the fleet's designated users and service partners, customized by location, team function, and risk appetite, to allow fleets to confidently execute predictive tire maintenance and optimize costs across the tire lifecycle.



PROPRIETARY DATA SOURCES

- Billions of Miles of Tire Data
- Client Preferences
- Risk Profile

COMMODITIZED DATA SOURCES

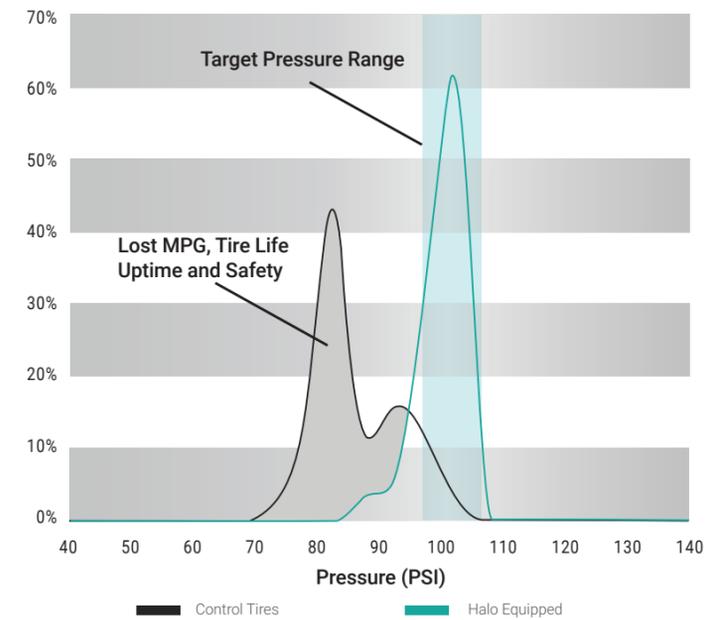
- Mobile Applications
- RFID Readers
- Load & Vibration Data
- TPMS Data
- Tread Data
- GPS Data

DELIVERING RESULTS WHERE THE RUBBER MEETS THE ROAD

The proven value of the Halo Tire Management platform is seen first-hand at this six-thousand truck, high-growth fleet. One year post full-fleet deployment, this innovative fleet realized significant year-over-year savings. The combination of the Halo Tire Inflator and Halo Tractor Connect, coupled with Aperia's full suite of Halo Connect powered analytics tools, eliminated an average 12.9 psi of tire under-inflation, increased tire life by 17 percent, and reduced tire tickets by more than 40 percent for an overnight evolution in tire management.

Halo Tire Management Ensures Healthy Tires

Tire Pressure Distribution with Halo Connect vs. Control



Results calculated from 2021-2022 weekly vehicle MPG data before/after Halo installation and Halo Connect tire pressure data.

Halo Tire Management is a no-brainer. It significantly impacts tire life, uptime, fuel, and overall fleet operations.

Bill Brentar
Vice President Maintenance & Engineering (retired), UPS

PER TRUCK IMPACT

1.95%
MPG IMPROVEMENT

18%
TIRE LIFE INCREASE

90%+
REDUCTION IN TIRE-RELATED DOWNTIME

2.7MTCO2E
REDUCTION/YR

\$2,300+ /
TRUCK ANNUAL SAVINGS

FLEETWIDE IMPACT

16KMTCO2E
REDUCTION/YR

\$13.8 M
ANNUAL SAVINGS



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TIRE MANAGEMENT

Putting your fleet's tire performance
ahead of the curve.



Discover how Halo Tire Management and Halo Connect i3
can drive your fleet's productivity and profits.

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