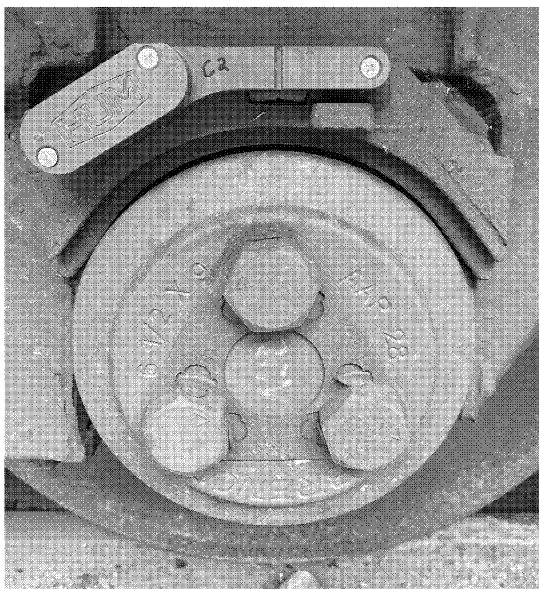


Predictive Wheelset Maintenance



The Hum Boomerang

Product Specifications

- Vibration and temperature sensing for railcar wheels and bearings
- First-of-its-kind Hum Algorithm identifies wheel and bearing failure months to years in advance
- High bearing temperature alerts
- 7+ year battery life
- Pairs with the Hum Gateway

Stop Overpaying for Wheelset Maintenance

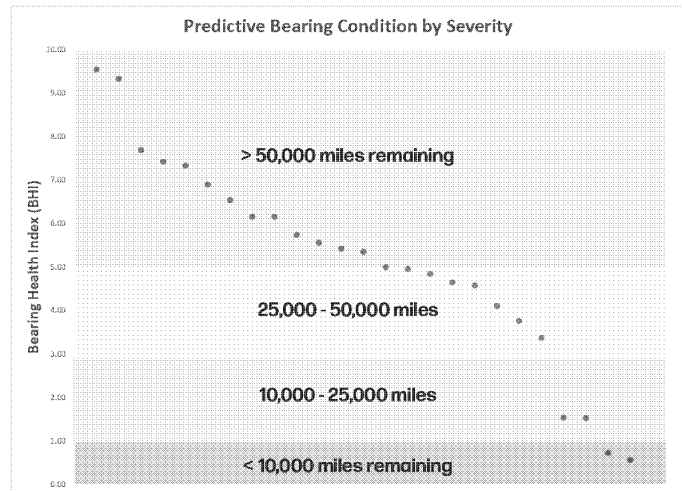
77%

Estimated savings when switching from Railroad directed wheelset maintenance to a **Hum-enabled wheelset maintenance** program.

GPS+ *Bearing Condition*

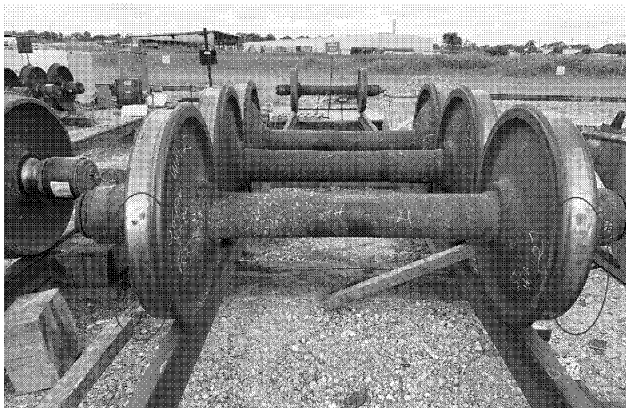
Hum's proprietary bearing condition algorithm was developed over 15 years of research to provide car owners with deep visibility into the maintenance needs of their fleet.

Using advanced vibration and temperature monitoring, Hum can predict bearing failure months to years in advance giving car owners ample time to plan and schedule their maintenance optimally.



The Hum Bearing Health Index (BHI) is a single value that car owners can use to track the condition of their bearings over time.

GPS+ *Wheel Condition*



Hum's proprietary algorithm is also capable of identifying high wheel impacts independent of any WILD detectors. Just like the Hum BHI, wheels condition monitoring allows car owners to track the degradation of their wheels over time.

Car owners who have equipped the Hum Boomerang have identified and removed wheelsets at the time and place that allows them to minimize their costs.

For more information, contact:

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