



# Integrated Technology Package FOR ELECTRIC ROPE SHOVELS

## IMPROVE YOUR MINING OPERATION

Engineered for the future, the Cat® Integrated Technology Package fully incorporates Cat Electronics and provides the platform to support technology expansion. The package features six standard technologies, including Machine Health, Vibration Monitoring, Cat Electronics, Payload Management, Bearing Temperature Monitor and Cycle Segmentation. The enhancements support higher productivity, improved reliability and increased security. The technology upgrade also provides a gateway for seamless integration of Cat MineStar™ Solutions, a comprehensive suite of operational technologies that help track, monitor, and manage the electric rope shovel.



# Cat® Electric Rope Shovel - Integrated Technology Package

APPLICABLE MACHINES 7495 ER601143-up / 7495HF ER801136-up

## What's changing?

Midas

Machine Health

Legacy Vibration Kit

Vibration Monitoring

AccessDirect

Cat® Electronics

Accuload

Payload Management

Bearing Temperature Monitor

Bearing Temperature Monitor

New Feature

Cycle Segmentation



Feature	Benefit
Machine Health	<ul style="list-style-type: none"> <li>Improved reporting capabilities</li> <li>Provides remote real-time monitoring of the machine</li> <li>Delivers insight on how to best utilize machines in mine operations</li> </ul>
Vibration Monitoring	<ul style="list-style-type: none"> <li>Monitors vibration signals for changes allowing for proactive maintenance and in turn maximizes the life of the gearcases and motors</li> <li>Reduces downtime from unplanned outages</li> </ul>
Cat® Electronics	<ul style="list-style-type: none"> <li>Reports health, productivity and offboards data in a consumable format</li> <li>Increases protection against cyber security threats by confining to a single network layer reducing impact and vulnerability</li> </ul>
Payload Management	<ul style="list-style-type: none"> <li>Provides real time feedback on material moved</li> <li>Monitors overloading and underloading trucks</li> <li>Empowers operators to study their loading efficiency</li> </ul>
Cycle Segmentation	<ul style="list-style-type: none"> <li>Tracks machine performance through each dig cycle and across different shifts and operators</li> </ul>
Bearing Temperature Monitor	<ul style="list-style-type: none"> <li>Alerts users for temperature outside of threshold</li> <li>Allows for preventative maintenance</li> </ul>