

KOMATSU

P&H

Track Shield 2



technology upgrade for shovels

Reduce or mitigate shovel damage with advanced technology



Dipper to crawler shoe contact can occur when digging in close proximity to the tracks and during the "return to tuck" part of the dig cycle



The Track Shield system assists the operator by generating an alternate path

Repeated dipper-to-track strikes can reduce crawler shoe life and cause structural cracking and dipper damage, resulting in unplanned downtime and increased repair costs.

Track Shield 2 is a suite of control functions that helps the operator decrease the number or severity of impacts between the dipper and the tracks or other parts of the shovel. This solution calculates the position of the dipper and modifies controls to mitigate collisions.

Maintain productivity in your operations

Mitigate dipper collisions

Reduce TCO via maintenance costs

Tune to your specific needs

Track Shield 2 is ideal for a variety of mining operations and applications:

- Oil sands — wide path tracks
- TRC dippers
- Wider dippers (76 cubic yards or greater)
- Configurations where it is difficult to see potential strikes

Help avoid unplanned, unbudgeted downtime and repair costs by minimizing or avoiding shovel damage due to dipper-to-track strikes.

An ideal solution in operations with an incident history of excessive strikes or damage to the dipper door, tracks or house.

Innovative operator assistance technology

With a trend toward wider tracks and larger dippers, even the most experienced operators may have difficulty avoiding destructive dipper-to-track strikes.



Centurion electrical control system is simple to set up and upgradeable



Track Shield 2 may reduce maintenance costs from fewer incidents of damage to the cable reel, as well as other vital components

Get shovel impacts under control

Reduce total cost of ownership

Track Shield 2 has been engineered to substantially reduce the number or severity of costly collisions with the dipper on your valuable shovel asset. It's a sophisticated technology upgrade that can help reduce maintenance costs and increase machine longevity from fewer incidents of damage or fatigue to the shoes, front idler, dipper components, cable reel and other components.

Decrease risk while maintaining productivity

We've worked with our valued customers to design a solution that minimizes the impact on operator motions during tuck to maintain shovel productivity. Field tests have shown statistically no reduction in productivity while Track Shield 2 is in operation when properly tuned. It can also assist operators by guiding them to where they need to be with respect to the shovel's structure and digging face while reinforcing best digging practices.

Name that tune

Tuning is an initial process that configures Track Shield 2 based on your operational priorities and objectives. We'll work with you to pinpoint your optimal approach that aligns with your unique operation. For instance, Track Shield 2 can be custom tuned to focus on mitigating risk — avoid almost all collisions. Or it can be performance-configured — optimize productivity while reducing damage. It's your choice. Komatsu service personnel provide one-time tuning in close collaboration with your mining operations and fleet maintenance teams.

Discover how upgrading P&H shovels to innovative Track Shield 2 technology can benefit your mining operations. Talk to an expert today.

Product designs, specifications and/or data in this document are provided for informational purposes only and are not warranties of any kind. Product designs and/or specifications may be changed at any time without notice. The only warranties that apply to sales of products and services are Komatsu's standard written warranties, which will be furnished upon request.

Komatsu and other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu America Corp., Komatsu Mining Corp., or one of their affiliates, or the respective owners or licensees.

KOMATSU

mining.komatsu

