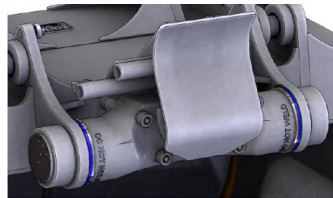
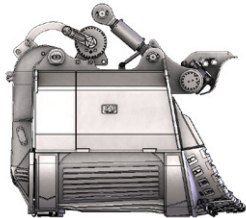




# TRC<sup>OS</sup> Series Dipper

## Product Overview



## The next generation of dipper technology

The dipper is one of the hardest working pieces of equipment on your electric shovel. We understand the importance of this complex tool, and have created our TRC<sup>OS</sup> series dippers to help you minimize field maintenance and maximize performance for your operation. The designs for our newest dippers combine more than 135 years of shovel dipper designs and patented technologies with insights provided by customers like you.

### Increased productivity

- Innovative shape increases dipper volume by up to 10 percent while remaining under RSL
- Raised heel design allows operators to maximize full digging forces to obtain higher and more consistent payloads
- Roller latch system and hydraulic snubbers provide reliable and controlled door opening and closing

### Lower total cost of ownership

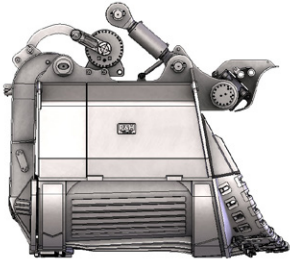
- Low-friction, rolling interfaces throughout the roller latch system enable components to frequently last from rebuild to rebuild
  - Oil Sands applications: 40 million tons or 9 months
- Genuine P&H hydraulic snubbers paired with our patented roller latch door significantly lower stresses that can lead to structural cracking
- Raised heel provides additional clearance between dipper heel band and mined material, greatly reducing wear and the need for repairs

### Designed with a zero harm mentality

- Longer-living components and a reduction in wear decreases need for employee maintenance in the field between rebuilds



# Understanding the system



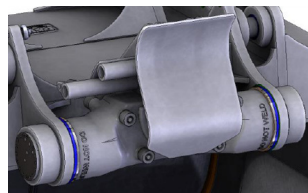
## Tapered body

- Patented dipper shape allows material to dump with reduced hangup
- Design is optimized to maximize capacity without adding additional weight
- Raised heel geometry increases clearance to the bank, significantly reducing wear and increasing bank penetration
- Body shape decreases the potential for dipper-crawler shoe interactions



## Roller latch system and door

- Structural design considerably lowers door stress levels resulting in improved door life and reduced rebuild costs
- Significant reduction of static metal-on-metal wear surfaces allows components to run with minimal maintenance from rebuild to rebuild\*
- Design minimizes the need for shimming between scheduled maintenance outages
- Handle-mounted trip drum provides leverage to ensure first-time tripping while maximizing trip rope life



## Cast equalizer

- Long-lasting system runs rebuild to rebuild without the need to replace components
- Up to 6.5 feet (1.98 m) of additional dig and dump height gives you more flexibility to keep up with changing mine plans
- Design enables maximum rope life compared to traditional d-block bails
- CEP (Component Exchange Program) parts available to ensure you are running to OEM specification

Compatible with the 4100C Boss series shovels. Shovel requires a handle-mounted trip drum and Trip Rite Gen III v11d with S120 drive or newer to properly operate a TRC<sup>OS</sup> series dipper.

For more information, contact a Komatsu Mining representative or visit [www.mining.komatsu](http://www.mining.komatsu).

\*All comparisons are to the prior P&H Optima series dippers unless otherwise specified.

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