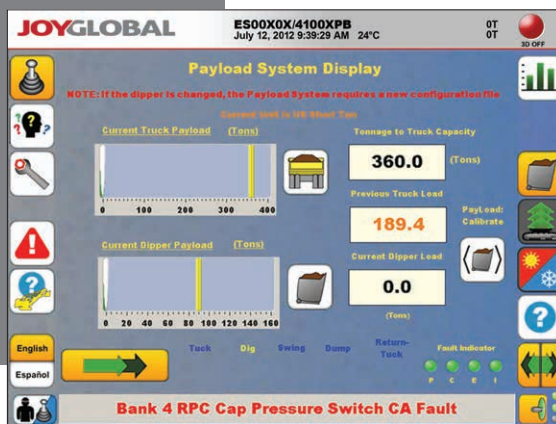


Payload System

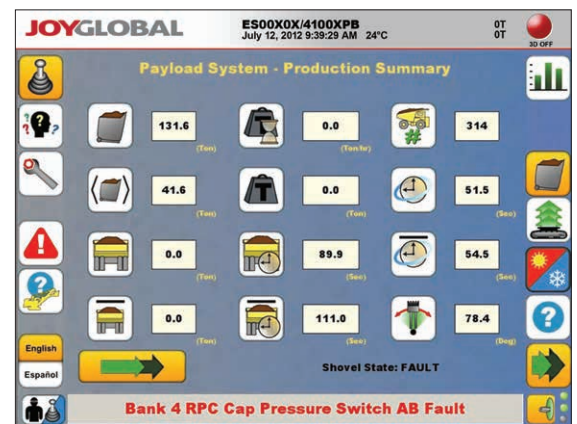


System requirements

- Centurion electrical control system
- V 4.12 or later for DC shovels
- V 4.5 or later for AC shovels



Payload main GUI screen



Payload production summary screen

Summary

Every truckload of material has a cost associated with it. Every truckload has a target weight at which you minimize cost and maximize profit. Overloading causes spillage and increases truck maintenance costs. Short-loading robs the mine of potential revenue.

Until now, both shovel- and truck-mounted payload-weighting systems have fallen short of their goals of providing accurate, reliable payload measurement and simple system calibration. The Payload system changes all that.

Product features

The Payload system is a system that provides the shovel operator with the weight in tons of the material in his dipper as he is swinging over to load the haul truck.

A shovel operator loads a haul truck, with a target payload based on the haul truck's size.

Each dipper load is weighed and reported to the operator, to load the haul truck to the exact target payload.

Both over- and under-loading the haul truck affect operational productivity for mining companies.

Payload systems are designed to optimize the loading process so the operator can deliver the target payload each time, optimizing productivity.

Payload includes KinCal, an inclinometer based method of calibration that is quick, simple and non-invasive.

Product benefits

Payload system provides the shovel operator with dipper payload in real time, empowering the operator to optimize the haulage loading process.

Payload system helps prevent costly material spillage on haul roads by not overloading haul trucks during the loading process.

Payload system also reduces costly repairs by preventing overloads. By providing the operator with accurate dipper and truck payloads, Payload reduces structural damage to both the shovel and haul trucks.

Payload helps increase productivity by optimizing the loading process.

- Accurate weight measurement system
- Accurate cycle decomposition
- Simplified calibration
- Centurion electrical control system integrated
- Dispatch interface available
- Data transfer to P&H PreVail Remote Health Management (RHM) system, trending and reporting

Accurate truck payload data is essential to production reporting. But the Payload system provides much more, including:

- Current/last dipper payload, in tons
- Tons per hour of operation this shift
- Trended dipper payloads
- Current truck loading time in seconds
- Current deviation from target
- Average truck loading time this shift
- Current truck accumulated tons
- Current cycle time in seconds
- Average truck tons this shift
- Average cycle time this shift
- Tons/hr of operation this shift
- Swing angle, in degrees
- Total tons this shift, in whole tons

With this kind of immediate feedback, the operator has a much better sense of performance and can adjust loading techniques to improve productivity and consistently hit the target truckload weight. Payload data can be integrated with our universal dispatch interface and PreVail (RHM) systems for remote monitoring, further enhancing your ability to optimize loading and asset management.



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