

# Are your guards creating hazards?

Each year more than 400 miners miss an average of 45 days from work due to improperly designed machine guards. That's over 19,800 days a year lost!



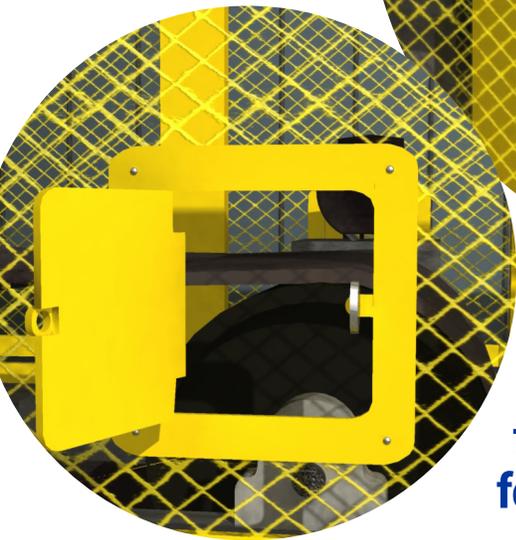
**19,800**  
days lost

## Design the hazard out of the guard!

Paint all guards a single bright color to improve detection.



Add handles or handholds to improve grip.



Design guards so they don't need to be removed for inspections.



Design guards in small, lightweight sections for easy removal by one person.

To learn more, visit [cdc.gov/niosh/mining](http://cdc.gov/niosh/mining)

Data based on an analysis of all injuries reported to MSHA between 2004 and 2012 with the source of injury identified as metal covers and guards.

