

The Gravel Pits: Confined Space Trapped Key Interlock Safety Solutions



4.8 million confined space incidents a year are logged with OSHA

The storage of aggregate for various usage can lead to the potential risk to personnel involving engulfment within hoppers (confined space) and loss of materials due to incorrect materials loading. Protecting workers from confined space hazards that can occur during maintenance, cleaning, filling, and unloading of hoppers is critical within a gravel pit.

92 workplace fatalities and 11,000 injuries a year are the result of confined space incidents as reported by the U.S. Dept. of Labor

Interlocking access doors/gates around conveyor systems and hoppers will ensure that entry can only be gained after the power has been isolated and residual energy has ceased. Understanding the access points, partial or full body, will help determine the best interlocking solution to safely manage access to the hoppers and surrounding areas that could pose a confined space hazard.

60% of confined space fatalities are rescuers –Let's change the statistics and enhance your safety!

Trapped key interlock safety solutions ensure a pre-determined sequence of operations each & every time. While LOTO provides a visual warning and identifies hazards, a TKI solution physically prevents a specific set of actions from being performed until previous action(s) have been fully completed!

Common trapped key interlock solution interlocking conveyor system with multiple access points and hopper doors to mitigate confined space hazards:



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Step 1: Power Isolation KIRK Type F isolation interlock installed on main breaker for conveyor

Step 2: Multiple Entry Points KIRK Type T transfer interlock for access to multiple hopper access doors

Step 3: Safe Access KIRK Type D access lock installed on hopper doors. A two-cylinder KIRK Type D can be implemented to provide a personnel key to be held by personnel performing maintenance.

PROTECT your employees, **PREVENT** accidents, and **PROVIDE** risk control and peace of mind by implementing a trapped key interlock solution that will ensure that...

Everyone has the right to be **SAFE** at work!