Industrial Solutions

lizard® mobile stacking bridge

Lower investment costs and fewer fatigue issues
For more reliable heap leaching and dry tailings stacking you need lizard®, thyssenkrupp’s new mobile stacking bridge.

The lizard® System combines two established technologies, the conveyor bridge and the crawler-mounted tripper car. It offers a new and unique solution for heap leaching pads used in the processing of copper ore and dry tailings stacking. The lizard® decouples the tripper car from the conveyor bridge with its own chassis and can be controlled independently of the bridge.

The lizard® pay-off: lower investment cost and fewer fatigue issues on bridge structures.
Benefits of lizard®

The stand-alone tripper car has several advantages. The transitions between the bridge segments are easier as there is no stress from a traveling tripper car on top of the bridge. As the loads on the bridge sink, the overall construction of the bridge outweighs the additional chassis and structure of the tripper car. This way the product saves weight and CAPEX accordingly. In addition a larger dump height and longer outreach are possible.

“Float” system

An important component of the lizard is the multi crawler drive system. Being an expert in this area, thyssenkrupp has applied an unique solution to optimize productivity: A multi-crawler chassis with no override control, the so-called “float system”, is attached to the tripper car. The individually controlled crawler tracks allow movements in all directions without any constraints. This system can be attached to any given crawler to avoid the usually big steering radius you have with the regular gearing systems that are normally attached to these machines.

How you benefit:

- Lighter bridge structure and smaller bridge crawler drives
- No loads from travelling TC on bridge – no fatigue issues on structure
- Easier transitions between bridge segments – no stress from travelling TC on top of bridge structure
- Simpler operation and alignment of bridge crawler drives
- Simplified bridge design and construction – lower bridge height
- Generally higher dump and longer outreach possible due to stand-alone TC
- Same design applicable for reclaiming bridge – lower bridge height and lower discharge height of bucket-wheel reclaimer