

Proaxxion Servicios Profesionales - Remote Twistlock System

eliminating the need for the driver to leave the cab to open/close twistlocks on semi-trailers

the challenge

Every time a container is loaded or unloaded from a truck, it implies that the driver must get out of the cab to release or fix the twistlocks that are distributed around the truck semi-trailer.

This routine activity poses a huge risk for drivers as they are exposed to

- struck by vehicles or handling equipment because of proximity to continuous transit of vehicles and large-scale machinery, particularly in blind-spot areas of the truck/trailer
- hand and upper body injuries - twistlocks are often not in good condition and the action of opening or closing requires considerable effort that can give rise to strains, sprains and strikes

A significant portion of container trips on trucks in ports and terminals are made with twistlocks open or unsecured.

the innovation

Our solution completely eliminates the need for the driver to leave the cab to open or close the twistlocks. The required activity can be done from the safety of the cab.



This innovation takes advantage of the air already present in the truck and uses it to perform all the movements necessary for these lashing activities. It secures and tightens the twistlocks avoiding vertical movement of the container during travel.

Trucks fitted with this system are able to close twistlocks immediately, without the need for interactions between the terminal personnel and drivers, ensuring the cargo is secured at all points even in the transfer.



how it was implemented

After three years of development, this system has been implemented in 3 vehicles in Chile, with more than 24 months of operation, which has allowed us to generate relevant improvements from the point of view of the operation of the automatic system, to the safety of the elements that compose it.

result

The results of the implementation of this system have been spectacular, achieving very positive feedback from users.

conclusion

The high exposure and accident rate of truck drivers whilst closing/opening twistlocks has existed for many years, and without any real solution. This development is a real opportunity to implement a solution to this very real risk.

In addition, it has allowed drivers with reduced mobility to be able to drive a truck again thanks to the automation of this part of the activity.



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