



Best Market  
Development  
Award  
**2022**



# Stainless Steel Vehicle Defence Barriers

## The Challenge

Increase Life Cycle and reduction of costs of Vehicle Defence Barrier Bollards by means of selection of materials that would reduce corrosion thus extending Life Cycle of the project as well as reduction in the amount of maintenance needed.

## Why?

The application being exposed to the elements needed to be manufactured with corrosion resistant materials.

## Needed Action

Decision was made to fabricate the Vehicle Defence Barrier Bollards with NAS stainless grade 304 due to its high degree of corrosion resistance.





# Automatic extraction system of lubrication grease

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## The Challenge

Improvement of safety conditions by automation of the lubricating grease removal operation in the AOD converter damping system.

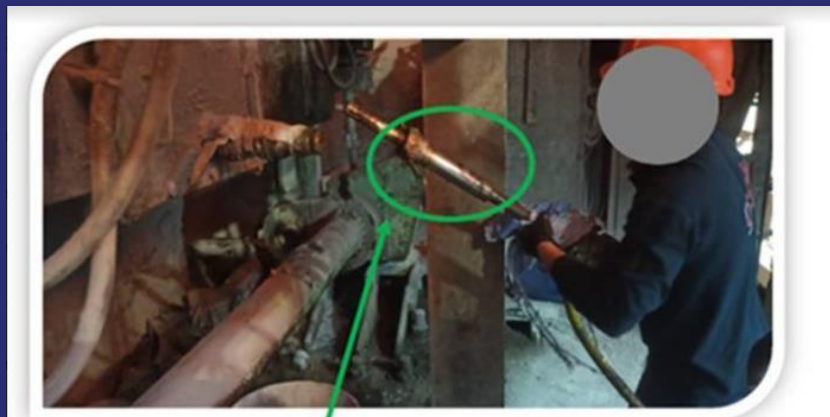
## Why?

To avoid risks arising from the operation of the extraction of lubrication grease from the damping system of the AOD converter as it is currently carried out.

The operation is currently carried out manually by a maintenance officer. In order for the lubricating grease to fall continuously, the task has to be done with the converter in operation.

## Needed Action

1. Adapting -converting a standard 200 kgs drum pneumatic pump into a dedicated pump for grease evacuation from the AOD Converter automatically.
2. To attach a small 10 mm air hose by means of a 1/4 "Smc type fitting and a 20 mm evacuation hose with spigot, which is also very light and easy to handle.
3. Install guard rails in the drum evacuation area (according to the above operating procedure).



New designed mechanism for the coupling and operation of the pump in the sump

