Office for Product Safety & Standards

Product Safety Report

Elvadores Alher PM-CR-210 Mast Climbing Work Platform (MCWP)	
Aspect	**Details**
Images	 
PSD Number	2405-0048
Product Type	Machinery – Mast Climbing Work Platform
Product Identifiers	Brand: Elvadores Alher Model: PM-CR-210 Machines manufactured prior to May 2022
Product Description	Mast Climbing Work Platforms are used where high-level access and maintenance are required, for example to lift people and equipment undertaking work on tall buildings. They comprise a powered work platform attached to a single or twin vertical masts. Each mast is fitted with two drive units which move up and down the mast. The machine plate (pictured)is in the name of Elvadores Alher, however the physical manufacturer and economic operator responsible for the conformity assessment and CE marking is Indeleva S.L.
Country of Origin	Spain
Counterfeit	No
Risk Level	Serious
Risk Type	Injuries
Risk Description	There is a serious risk of platforms falling in an uncontrolled manner which could result in serious or fatal injuries. The manufacturer of the Mast Climbing Work Platforms claimed compliance with the relevant Standard (BS EN 1495:1997+A2:2009) however the requirements of the Standard were not met, because there were insufficient means to prevent the platform falling with overspeed in the event of a mechanical failure. The machine design utilises the system of "*two or more independent and identical electric motor direct drive units fitted to each mast*" as the means to prevent the platform falling with overspeed. While the machine design did use 2 drive units fitted to each mast, they were not identical, with only one of each pair being fitted with a centrifugal brake.

The OPSS Product Safety Alerts, Reports and Recalls Site can be accessed at the following link: https://www.gov.uk/guidance/product-recalls-and-alerts

	The Standard requires that the system must "*detect malfunctions in each drive unit which endanger proper function. These shall at least indicate a loss of mechanical integrity which results in a differential in the current demand between each drive unit, exceeding 25 % of the full load current*". This is consistent, for example, with one drive unit doing all the work due to a loss of mechanical integrity in the other unit in a pair. There was no adequate means of detection of a differential in current between the two drives on each mast and no means of alerting the user of this. Analysis of the composition of the steel pinions also determined it was of a lower quality and strength than specified in the machine design. These deficiencies mean that a failure of a component, such as the drive pinion which connects the platform to the mast, could go undetected and if the second drive pinion were then to fail there would be no means to prevent the platform falling from height. The Mast Climbing Work Platforms does not meet the requirements of the Supply of Machinery (Safety) Regulations 2008.See the HSE safety alert at the following link: *Mast climbing work platforms: Failure to detect mechanical failure in drive units leading to uncontrolled fall of platforms - HSE*
Corrective Measures	Machines manufactured after February 2019 have two identical drive units with centrifugal brakes, but may not have sufficient means to identify a loss of mechanical integrity resulting in a differential in current demand. Machines manufactured after May 2022 are not subject to this alert. All known machines in Great Britain have been subject to corrective measures to bring the product into compliance and ensure its safety. Owners of this product who have not already been alerted to this issue by HSE should contact the manufacturer and take corrective action as set out in HSE's safety alert.
Online Marketplace	N/A
Notifier	Health and Safety Executive