

BSJ-G-12.6a SPECIFICATION FOR THE PROCUREMENT OF HOISTS AN MASTCLIMBERS

Technical Standards			
All hoists shall be subject to the requirements of BS 7212 Code of practice for safe use of construction hoists.			
Protection of hoistway gaps			
All hoist cars must be fitted with 'saloon doors' or a similar gap protection arrangement to prevent thin objects from being able to fall out through the gap between the hoist car and the landing gate structure when the hoist doors are open. The arrangement should be at least 1600 in height, i.e. not half-height protection.			
Any gaps at the sides of the landing gate structure on each side at each level must be fitted with suitable mesh, netting, or other appropriate gap protection to prevent thin objects from being able to fall out through the gap.			
Responsibility			
An Appointed Person (Supplier) and an Appointed Person (User) shall be appointed by the Supplier and the Principal Contractor for all hoists and mast climbers, in order to liaise regarding the selection, erection, use, maintenance and dismantling of the hoist.			
The Principal Contractor shall ensure that a detailed scope of works document is prepared for the correct and appropriate procurement of all hoists and mast climbers.			
Selection and Reliability			
All hoists and mast climbers shall be supplied with adequate capacity for the size and weight of construction materials and personnel to be transported and / or installed throughout the project, and this shall be defined within the detailed scope of works document.			
All hoists and mast climbers must have been subject to a historic regime of Planned Preventative Maintenance, which ensures that worn and damaged components are replaced before the hoist becomes unsafe, breaks down or fails. The Planned Preventative Maintenance regime shall be clearly detailed in the Machine History File.			
Design and Positioning			
Adequate information shall be provided by the hoist or mast climber supplier, which facilitates the temporary works design of the foundation, and where necessary, any structural ties.			
An independent Category 3 check of the hoist or mast climber foundation design must be carried out by a competent engineer who is independent from the design provider where the base design is complex or there is potential for the public to be impacted should there be a collapse.			
Ramps into and out of all hoist cages at ground level and all landing levels shall be designed to facilitate the loading of hoists with material handling equipment, such as pallet trucks and trollies.			
Document Title	Specification for the procurement of Hoist and mastclimbers	Document Number	BSJ-G-12.6a
Author	BSJ Head of Health and Safety	Version Number	2
Approved for Authorisation by	Director Responsible for Health and Safety	Approval Date	17/03/2026
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Documentation
All hoists and mast climbers shall be supplied with a Machine History File, which includes the EC Declaration of Conformity, comprehensive records of pre-delivery inspections, pre-use checks, in-service inspections, maintenance, breakdown, repair, major overhaul, test reports, wire rope test certificates and Thorough Examinations.
All hoists and mast climbers shall be defined as being made up of the base frame, drive frame and platform/cage, and these components shall be identified with the same unique serial number to be defined as a single item of plant.
Safe System of Work for Erection, Alteration and Dismantling
The hoist supplier shall develop and implement a safe system of work for the erection, alteration and dismantling of each hoist or mast climber, and ensure that this is briefed to all individuals involved with the activity.
The hoist supplier shall minimise the installation of components at height, and where this cannot be achieved, ensure that components, equipment and tools are tethered to prevent them from falling.
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The hoist or mast climber must be key operated to prevent unauthorised use.
Mastclimber requirements
All mast climbers must have either proprietary systems fitted or brick guards to reduce the risk of tools and materials falling through the hand rails, this must form part of the contract requirements.
The mastclimber supplier shall install and maintain netting on the underside of the working platform that extends where practicable to the external roof of the mastclimber to capture debris and mortar.
The mast climber supplier shall install a solid canopy roof on the mastclimber to protect operatives from harsh weather conditions.
An exclusion zone with prominent warning signage must be installed to prevent unauthorised access into the working area and outside working hours. The exclusion zone must be formed on 2m heras fencing which is secured at each end, double clipped and incorporates a lockable gate.
A tool tethering running line should installed within the working platform so as contractor staff can secure hand held tool at risk of falling.

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Given their flexibility, mast-climbers can be built in various configurations resulting in different Safe Working Loads (SWL) or working speed limits. All this information is clearly displayed on each mast-climber helping operatives understand the working limits.

Hoist Requirements

At each landing point, a full height gate must be installed with a mechanical and electrical interlock installed.

A hoist call point must also be installed on each landing point so as contractor staff can call the hoist at any level.

The base of the hoist must fitted with an enclosure to prevent unauthorised access to the moving parts and to prevent anyone from climbing the exposed framework. Interlocks must also be fitted to the hoist roof access panel.

Edge protection must be fitted to the hoist roof.

Hoist Testing

All hoists shall be subject to a function test prior to being brought into service and during every periodic Thorough Examination.

All hoists shall be subject to a 125% load test prior to being brought into service, then a 100% load test during every periodic Thorough Examination.

All hoists shall be subject to a 125% load test following an increase in mast height, addition of ties and removal of ties.

All hoists shall be subject to a 100% drop test prior to being brought into service and during every periodic Thorough Examination.

Mast Climber Testing

All mast climbers shall be subject to a function test prior to being brought into service and during every periodic Thorough Examination.

All mast climbers shall be subject to a 100% load test prior to being brought into service, during every periodic Thorough Examination and following an increase in mast height, addition of ties and removal of ties.

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All mast climbers shall be subject to a 100% drop test prior to being brought into service and during every periodic Thorough Examination.

In-Service Inspections

All hoists and mast climbers shall be subject to an in-service inspection, carried out by a competent person provided by the supplier of the hoist or mast climber.

All hoists and mast climbers shall be subject to a formal inspection and test, carried out by a competent person, prior to the commencement of dismantling.

Thorough Examinations

All hoists and mast climbers shall be subject to an initial Thorough Examination carried out by the supplier prior to being brought into service, and then a periodic Thorough Examination at six monthly intervals thereafter.

St Joseph will procure an additional Thorough Examination carried out by an independent engineer prior to a hoist or mast climber being brought into service, then periodic Thorough Examinations at six monthly intervals commencing 3 months after erection.

All hoists and mast climbers shall be subject to a Thorough Examination carried out by the supplier following re-configuration.

In the event that a hoist or mast climber is exposed to exceptional circumstances, the item of plant shall be taken out of service and a Thorough Examination carried out prior to the hoist or mast climber being brought back into service.

Handover

The hoist supplier shall complete familiarisation training with all Operators, which includes normal operational controls and functions, emergency situations, pre-use checks and in-service inspections. This should be recorded and evidence provided in a hand-over report prior to the hoist or mast climber being brought into service.

Wire ropes

When wire ropes have met the discard criteria as detailed in BS ISO 4309, typically 6 broken wires within a length of 6 diameters, the wire rope must be replaced immediately.

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Breakdown Response

All hoists and mast climbers shall be subject to a service level agreement of 6 hours (maximum) for response and repair, in the event that the item of plant breaks down.

Defect Rectification

All hoists and mast climber defects affecting the safety of persons and representing an immediate risk of serious personal injury shall be rectified immediately.

Spare Parts Management

All hoists and mast climbers shall be supplied with a guarantee that spare parts can be delivered to site and the supplier shall confirm the manufacturer's lead-in time for critical components for each item of plant.

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