

## SGG14D - SPECIFICATION FOR THE PROCUREMENT OF HOISTS AND MAST CLIMBERS

<b>Technical Standards</b>
All hoists shall be subject to the requirements of BS 7212 Code of practice for safe use of construction hoists.
<b>Protection of hoistway gaps</b>
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.
<b>Responsibility</b>
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.
<b>Selection and Reliability</b>
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.
<b>Design and Positioning</b>
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.
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 Hoists and Mast Climbers	Document Number:	SGG14D
Author:	John Perkins	Version number:	5.0
Page	Page 1 of 4	Implementation Date:	10/03/2026

<b>Documentation</b>
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.
<b>Safe System of Work for Erection, Alteration and Dismantling</b>
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 ensure that a copy of the manufacturer's instruction manual is provided with the hoist, and ensure it is briefed to all erectors prior to installation, alteration and dismantling activities.
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.
Where work at height cannot be controlled through collective measures, the hoist supplier shall have arrangements in place for appropriate personal fall protection equipment to be used, including twin tail lanyards, to prevent falls from height.
<b>Hoist Testing</b>
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.

Document Title:	Specification for the Procurement of Hoists and Mast Climbers	Document Number:	SGG14D
Author:	John Perkins	Version number:	5.0
Page	Page 2 of 4	Implementation Date:	10/03/2026

<b>Mast Climber Testing</b>
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.
All mast climbers shall be subject to a 100% drop test prior to being brought into service and during every periodic Thorough Examination.
<b>In-Service Inspections</b>
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.
<b>Thorough Examinations</b>
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 George 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.
<b>Handover</b>
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.

Document Title:	Specification for the Procurement of Hoists and Mast Climbers	Document Number:	SGG14D
Author:	John Perkins	Version number:	5.0
Page	Page 3 of 4	Implementation Date:	10/03/2026

<b>Wire ropes</b>
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.
<b>Breakdown Response</b>
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.
<b>Defect Rectification</b>
All hoists and mast climber defects affecting the safety of persons and representing an immediate risk of serious personal injury shall be rectified immediately.
<b>Spare Parts Management</b>
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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Page	Page 4 of 4	Implementation Date:	10/03/2026