

Construction Hoist Mast Erection and Extension - JSA - B

en-US · Technical failure review · v1.0 · 2026-10-13 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time	Location / area			Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Inspect parts and lifting							
HP-2 Align and connect							
HP-3 Tie and extend							
HP-4 Inspect and transfer							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Control access and energy	1. Weather control loss 2. Unexpected car movement 3. Installer fall	1. Wind limit unknown 2. Restart not controlled 3. Unverified anchor used	1. Review weather stop limits 2. Apply required isolation 3. Provide protected access	1. Weather and interference 2. Energy and support state 3. Fall protection and rescue				
2. Inspect parts and lifting	1. Rigging release 2. Rack mismatch 3. Erection appliance overload	1. Wrong lifting point 2. Rack version mismatch 3. Capacity unverified	1. Use specified lifting points 2. Match component list 3. Check erection appliance	1. Rigging and lifting points 2. Rack and joint compatibility 3. Appliance and load rating				
3. Lift and approach	1. Pinch injury 2. Adjacent collision 3. Platform overload	1. Hands align joint 2. Route changes unseen 3. Staged load overlooked	1. Keep hands out of gaps 2. Clear lifting path 3. Check platform loading	1. Safe guiding method 2. Stop signal understood 3. People and material load				
4. Align and connect	1. Joint failure on release 2. Fastener loss 3. Car interference	1. Some bolts incomplete 2. Mark used as sole proof 3. Rack alignment wrong	1. Retain lifting support 2. Record specified fastening 3. Verify alignment before release	1. Tool method and values 2. Rack and mast alignment 3. Support-release authority				
5. Tie and extend	1. Tie anchor failure 2. Building connection failure 3. Excess top projection	1. Wrong anchor detail 2. Final-state check only 3. Next stage unreviewed	1. Verify building connections 2. Check current geometry 3. Release each next cycle	1. Anchor and structure evidence 2. Unsupported projection 3. Next-stage hold release				
6. Restore and hold	1. Cable snag or shock 2. Unstable interrupted mast 3. Restart with loose joint	1. Cable route too short 2. Stop state not marked 3. Shift change unbriefed	1. Check full travel route 2. Secure stable stopped state 3. Recheck after interruption	1. Cable guide and clearance 2. Stopped stage and restrictions 3. Weather joint and tie recheck				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Weather and interference	☐ Rigging and lifting points	☐ Safe guiding method
☐ Tool method and values	☐ Anchor and structure evidence	☐ Cable guide and clearance
☐ Fall protection and rescue	☐ Support-release authority	☐ Weather joint and tie recheck