

Tower crane jib assembly and dismantling - JSA - A

en-SG · Basic task controls · v1.0 · 2026-10-14 · 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 Set assist crane							
HP-2 Lift and connect							
HP-3 Transfer support							
HP-4 Dismantle safely							

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. Confirm sequence	1. Jib collapse 2. Rearward overturn 3. Wrong component	1. Wrong manual 2. Ballast mismatch 3. Unknown attachment	1. Match configuration 2. Map support states 3. Verify ballast stages	1. Manual revision 2. Component list 3. Ballast schedule				
2. Set assist crane	1. Crane overturn 2. Load overload 3. Boom collision	1. Weak ground 2. Wrong radius 3. Hidden services	1. Verify support design 2. Check chart and load 3. Plan clearances	1. Support reactions 2. Duty chart 3. Route clearance				
3. Lift and connect	1. Jib rotation 2. Root crushing 3. Worker fall	1. Wrong pick points 2. Poor signal 3. Unsafe access	1. Use approved picks 2. Coordinate signals 3. Provide safe access	1. Pick layout 2. Crew position 3. Access and rescue				
4. Transfer support	1. Jib drops 2. Pin release injury 3. Rigging slips	1. Load path incomplete 2. Retainer missing 3. Abrupt lowering	1. Check full connection 2. Fit specified locks 3. Transfer as instructed	1. Support state 2. Connection locks 3. Release decision				
5. Dismantle safely	1. Unsupported jib 2. Pin ejects 3. Section rolls	1. Wrong removal order 2. Bound connection 3. Poor landing support	1. Use removal procedure 2. Confirm support first 3. Prepare landing stands	1. Removal stage 2. Pin release state 3. Landing supports				
6. Inspect and hand over	1. Unaccepted crane use 2. Hidden defect 3. Dropped remnant	1. Test omitted 2. Damage unreported 3. Loose shipping part	1. Arrange required tests 2. Record defects 3. Secure stored parts	1. Applicable AE inspection and tests 2. Defect disposition 3. Storage condition				

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

4. Pre-work checklist

☐ Manual revision	☐ Support reactions	☐ Pick layout
☐ Support state	☐ Removal stage	☐ Applicable AE inspection and tests
☐ Ballast schedule	☐ Release decision	☐ Storage condition